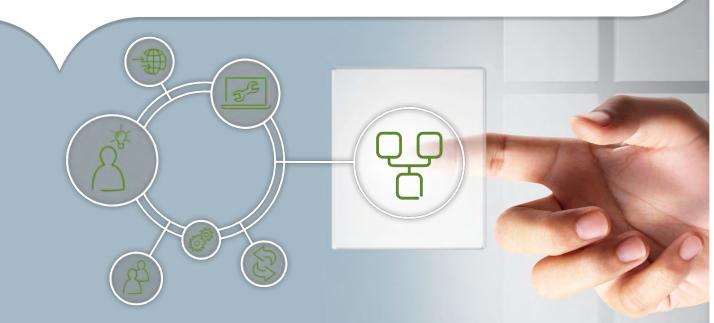


# **Kosovo IT Strategy**





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Document Author: IT Strategy Working Group

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# List of abbreviations

| ADDT   | Application deployment and development tools                                |
|--------|---|
| BPO    | Business process outsourcing  |
| CAGR   | Compound annual growth rate   |
| CIO    | Chief information officer   |
| СММІ   | Capability Maturity Model Integration                                       |
| CRM    | Customer relationship management  |
| DACH   | Germany, Austria and Switzerland  |
| D&D    | Development and deployment  |
| EITO   | European Information Technology Observatory                                 |
| ERP    | Enterprise resource planning  |
| FDI    | Foreign direct investment   |
| FOSS   | Free and open-source software   |
| GIZ    | German Agency for International Cooperation                                 |
| HR     | Human resources   |
| ICK    | Innovation Center Kosovo  |
| IoT    | Internet of things  |
| ISIC   | International Standard Industrial Classification of All Economic Activities |
| ISO    | International Organization for Standardization                              |
| ITCM   | IT Industry Capability Model  |
| KITIB  | Kosovo IT Industry Barometer  |
| MbO    | Management by objectives  |
| M&E    | Monitoring and evaluation   |
| MNC    | Multinational corporation   |
| NMFA   | Norwegian Ministry of Foreign Affairs                                       |
| тк     | Telekomi i Kosoves  |
| R&D    | Research and development  |
| SDC    | Swiss Development Cooperation   |
| SMEs   | Small and medium enterprises  |
| SMFA   | Swedish Ministry of Foreign Affairs   |
| STIKK  | Kosovo Association of Information and Communication Technology              |
| UNSPSC | United Nations Standard Products and Services Code                          |
| VC     | Venture capital   |
| WP     | Word packages   |

## **1. Introduction**

#### 1.1. Background

Across the globe, information technology (IT) is permeating and transforming the economy, the public sector as well as society at large. This trend towards digital transformation has put IT sector promotion as a top priority on the agendas of many governments. In addition to that, with a global market value of EUR 1,133,330 million<sup>1</sup> in 2013, the IT industry is not only one of the largest but also one of the most dynamic sectors, making IT a central driver for economic growth and innovation.

The Kosovo government has recognized the strategic importance of the IT industry for economic development and structural transformation towards a knowledge-based economy. Consequently, in 2013 the government of Kosovo officially declared the IT industry a high priority sector for its economy.

The IT industry is of strategic importance for Kosovo's economic and social development for several reasons:

- Economic growth: Several countries such as Bulgaria, Estonia, India and Costa Rica have impressively shown the significant potential of the IT industry as a trigger for economic development, job creation and income generation. Taking into account the structure and the competitive advantage of Kosovo's IT industry, the country has the potential to follow the example of these countries by using the IT industry as a catalyst for economic growth.
- Employment creation: The positive effect of the IT industry on job creation is amplified by the fact that IT is a labour-intensive and skill-intensive industry. In the IT industry (particularly in software development), scale is achieved by qualifying and hiring more people. In terms of employment, IT sector development has two positive effects: a quantitative one by increasing the number of jobs and a qualitative one by generating employment for higher skilled people. Thus, Kosovo's IT sector could play an important role in reducing unemployment, especially among the youth.
- Export promotion: In 2013, the global market for IT outsourcing accounted for EUR 223 billion,<sup>2</sup> and this figure is projected to grow rapidly in the next couple of years, thus providing significant export growth potential for countries like Kosovo. Particularly in Northern Europe, severe skill shortages in the IT industry will translate into additional demand for IT outsourcing, largely to nearshoring destinations such as Southeast Europe. Increasing exports is especially important for Kosovo, due to its negative trade balance and comparatively small, underdeveloped domestic market. Growth of IT exports will provide a number of long-term benefits for Kosovo, such as speeding up the transformation to a knowledge-based economy through technology transfer and creating better, higher-paid jobs.
- Competitiveness: A significant economic benefit of the IT industry is its positive impact on the efficiency and productivity of other industries through spill-over effects. Thus, even traditional sectors of Kosovo's economy such as manufacturing, agriculture or tourism could improve their international competitiveness by using modern software applications and IT services. By adopting latest technologies and providing modern software applications, Kosovo IT companies are able to support the integration of small and medium enterprises (SMEs) into international markets and supply chains. Hence, IT becomes an

<sup>&</sup>lt;sup>1</sup> EITO 2014/2015.

<sup>&</sup>lt;sup>2</sup> Gartner (2014): Forecast Analysis: IT Outsourcing, Worldwide, 1Q14 Update

enabler for other industries. Furthermore, the IT industry can induce growth effects in related industries through multiplier effects and provides opportunities for so-called hybrid business models, combining products with specialized services. Given the ongoing digital transformation of national economies and the emergence of the industry 4.0, IT will have a major impact on the international competitiveness of Kosovo's economy.

- Innovation & Entrepreneurship: As a cross-cutting technology, IT is a driver of product and process innovation. Furthermore, IT plays a key role within the knowledge based economy, where its strategic importance will substantially increase due to mega-trends such as the internet of things (IoT) and the so-called industry 4.0. Accordingly, IT could play a crucial role in increasing the capacity for innovation of Kosovo's economy. In addition to that the IT sector could also serve as a catalyst for entrepreneurship and the establishment of a vibrant start-up scene. A case in point is the Kosovo Innovation Center (ICK), which impressively demonstrates the potential of the IT industry for entrepreneurship and innovation.
- Branding & positioning: Promoting its national IT industry could help Kosovo further improve its international visibility and position itself as a center of digital excellence, IT entrepreneurship and innovation, following the example of small, yet highly innovative and competitive nations such as Estonia, Lithuania or Singapore. Kosovo would thereby be able to diversify its "industrial image" in terms of technology, capabilities and quality. In addition to that, the Kosovo IT industry would serve as a brand ambassador for the Kosovo economy.
- Investment promotion: Emerging countries with strong national IT industries usually do better at attracting foreign direct investment (FDI). Thus, promoting the Kosovo IT industry could help boost the country's appeal to foreign investors and attract more FDI, by improving its image, technical and skill base, and business climate.
- Other strategic benefits: Improving the international competitiveness of the Kosovo IT industry would also have a positive impact on Kosovo's economy and society at large in areas such as good governance (e-government, open government and open data), social development (information society), education and science (IT skills development, e-learning, IT R&D), health (e-health), as well as sustainable energy (e-energy).

Bearing in mind the importance of the IT industry as an engine for economic development, innovation and international competitiveness, the stakeholders of the Kosovo IT industry, including several national ministries and agencies, the Kosovo Association of Information and Communication Technology (STIKK), universities and donor organizations, have joined forces in order to develop a collaborative strategy for promoting the Kosovo IT industry.

The process of developing the Kosovo IT strategy has been supported by the German Agency for International Cooperation (GIZ) and the Norwegian Ministry of Foreign Affairs (NMFA).

#### **1.2.** Document Purpose & Objectives

The purpose of this document is to elaborate a specific strategy for promoting the development of the Kosovo IT industry in order to achieve the following vision and overall goal:

#### Vision:

Promoting digital transformation and supporting Kosovo in becoming a knowledge-based economy.

Overall goal:

To become the main driver for economic growth, employment and innovation by 2020 through increasing the international competitiveness of the Kosovo IT industry based on digital excellence.

The main beneficiary and target group of the strategy is the Kosovo IT industry. Related topics such as IT infrastructure and e-government have been covered by other strategies.

The underlying idea of the Kosovo IT strategy is that fostering the Kosovo IT sector is a highly complex task and thus requires a collaborative approach involving all relevant stakeholders, such as IT companies, associations, ministries, universities and donors. Therefore, the Kosovo IT strategy was developed by a joint working group including representatives from all relevant stakeholders, based on the following motivation and rationale:

- To jointly elaborate a strategy document which defines concrete policies, measures and actions to increase the international competitiveness of the Kosovo IT industry on a systemic and sustainable basis.
- To develop the Kosovo IT strategy in order to provide a practical and target-oriented guideline and roadmap for results-oriented cooperation in the Kosovo IT industry.
- To use the strategy development process and the resulting document as a coordination device that brings together all relevant stakeholders and fosters joint learning and collaboration within the Kosovo IT industry.
- To collaboratively plan and implement tasks and activities which individual businesses could never tackle alone.
- To improve stakeholder alignment, resource allocation and efficiency within IT sector promotion in Kosovo.

In summary, one can state that this document has been developed by the Kosovo IT industry, for the Kosovo IT industry, based on a collaborative, multi-stakeholder approach.

The strategy and the corresponding operational plan were prepared in accordance with the following documents and strategies of the Republic of Kosovo:

- Administrative Instruction No. 02/2012 on the Procedures, Criteria and Methodology for the Preparation and Approval of Strategy Documents and Plans for Their Implementation.
- National Strategy for Information Society Development of Kosova, for period 2006–2012.
- Electronic Communications Sector Policy Digital Agenda for Kosovo 2013-2020.
- Electronic Government Strategy 2009-2015.
- E-learning Strategy for Kosovo 2010 2015.

Since the IT industry is a highly dynamic sector, the purpose of this strategy is not to define a static system of support measures which are carved in stone, but rather to serve as a strategic guideline and roadmap which can be flexibly adapted to changing markets and technology trends.

Consequently, this document defines an integrated system of strategic policies and measures that need to be regularly evaluated and modified and improved to ensure its effectiveness.

#### **1.3. Industry Focus & Classification**

There are many different classifications and definitions for the IT industry (e.g. ISIC Rev. 4, UNSPSC, etc.). A widely used and accepted one is the classification system of the European Information Technology Observatory (EITO), which will also be used for the purposes of this strategy. The following table provides an overview of the IT industry classification according to EITO:<sup>3</sup>

| IT market segments | Sub-segments   |
|--------------------|--|
| Software           | System Infrastructure<br>Software Application Development and Deployment (D&D)<br>Applications   |
| IT services        | Projects<br>Outsourcing (excl.BPO)<br>Support & Deploy<br>BPO Services (incl. business consulting)   |
| IT equipment       | Servers, Storage, Workstations, PCs , Portable PCs, Netbooks, Consumer Portable PCs,<br>Business Portable PCs, Desktop PCs, Consumer Desktop PCs, Business Desktop PCs,<br>Media Tablets, Multifunction printers, Other IT equipment |

The focus of the Kosovo IT strategy is on software and IT services due to the following considerations:

- The majority of Kosovo IT companies are active in the area of software and IT services.
- At present, there are basically no Kosovo companies producing IT equipment/hardware.
- Software development and IT services are skill- and knowledge-intensive. The required capital investment, including hardware and software development tools, are comparatively low and do not constitute an entry barrier as in other areas of information technologies (notably hardware and telecommunications). Hence, software and IT services generate a high economic added value and enable economic growth, income generation and employment promotion and are therefore particularly relevant for the development of the Kosovo IT industry and overall economy.

With regards to the Kosovo IT Strategy, one should note the increasing difficulty of maintaining a clear differentiation between specific IT market segments and sub-segments, as software products are often closely integrated with IT services. As a matter of fact, many Kosovo IT companies provide software products and IT services. In addition to that technologies and market segments are converging, particularly in the areas of mobile computing, cloud computing and embedded software. Hence, boundaries between the different market segments and sub-segments are becoming increasingly blurred and are in a continuous flux. This convergence of different information and communication technologies as well as market segments is also reflected in the term "digital" which will be widely used in this document.

For the sake of clarity, the use of the term "IT industry" in this document will refer to both software as well as IT services.

<sup>&</sup>lt;sup>3</sup> EITO 2013:

http://www.eito.com/WebRoot/Store15/Shops/63182014/MediaGallery/Categories/Reports/EITO\_2013\_Definitions\_ and\_Methodology.pdf

#### **1.4.** How to use this Document (Structure)

This document has been structured to allow for an effective development and implementation of the Kosovo IT Strategy within the framework of a collaborative approach.

According to this approach, the document has been subdivided into chapters which correspond to the different modules and phases of the collaborative strategy development and implementation process. These chapters or strategy modules will be briefly described in the following table:

| 1. Introduction   | <ul> <li>Background, Document Purpose &amp; Objectives, Industry<br/>Focus &amp; Classification, How to use this document</li> </ul>   |
|---|--|
| 2. Methodology  | <ul> <li>Explaining the underlying principles of the Kosovo IT<br/>Strategy such as collaboration as well as agility &amp;<br/>adaptability ("Agile Light")</li> <li>Describing the methodology, approach, organization,<br/>processes and tools for developing the strategy</li> </ul>  |
| 3. Analysis   | <ul> <li>Providing the analytical basis for the whole Kosovo IT<br/>Strategy</li> <li>Internal analysis of the Kosovo IT industry (challenges and<br/>capabilities) and domestic market potential</li> <li>External analysis of potential export target markets<br/>(customer requirements and key success factors)</li> <li>Basis for the "strategic fit" between Kosovo IT industry<br/>capabilities and requirements of potential target markets</li> </ul>                     |
| 4. Strategy Development   | <ul> <li>Defining the vision and goal system</li> <li>Generic IT strategy</li> <li>Growth strategy</li> <li>Definition of a market entry strategy for strategic export markets</li> <li>Defining strategic pillars, tasks and activities (portfolio approach)</li> </ul>   |
| 5. Strategy Implementation                                      | <ul> <li>Operational plan: tasks are being operationalized in Work<br/>Packages (WPs) including activities, expected results,<br/>deliverables, indicators, budget, responsibilities, etc.</li> <li>Timetable showing timing and sequence of tasks and<br/>activities</li> <li>Organizational structure and processes for collaborative<br/>strategy implementation</li> <li>Tools</li> <li>Scenarios and risk management</li> <li>Information and knowledge management</li> </ul> |
| <ol> <li>Performance Monitoring<br/>&amp; Evaluation</li> </ol> | <ul> <li>Monitoring and evaluation system: monitoring and<br/>evaluating the effectiveness and efficiency of strategy<br/>implementation</li> <li>Tools for monitoring and evaluation</li> </ul>   |

The specific design and structure of the strategy allows stakeholders of the Kosovo IT industry to use the document as a **manual for the collaborative development and implementation of the Kosovo IT industry**. This is being achieved through the following elements:

- Modular structure: easy to implement, update and adapt
- Lean documentation: short and concise
- Graphic elements and charts
- Easy document navigation
- Document management and version management supported by IT Strategy SharePoint
- Focus on the operational plan as the key management instrument for strategy implementation

In this context, chapter 2 is particularly relevant, as it describes the methodology for the collaborative development of the Kosovo IT strategy. Said methodology can be used as a roadmap or "cookbook" for adapting, updating and continuously improving the Kosovo IT Strategy.

## 2. Methodology

This chapter describes the methodology which was applied by the strategy working group in order to develop the Kosovo IT Strategy based on a collaborative approach.

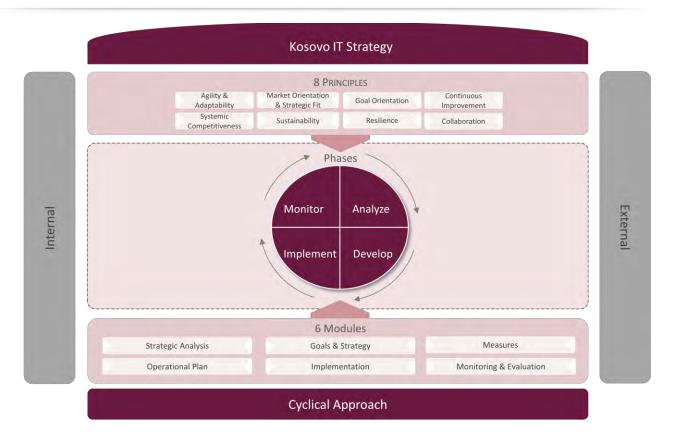
The specific methodology for elaborating the IT strategy was derived from a thorough analysis of the key success factors and challenges for IT strategy development in Kosovo, which were identified by the members of the strategy working group during a joint project planning workshop:

| Key success factors for IT strategy development in Kosovo   | Key challenges for IT strategy development in<br>Kosovo  |
|---|--|
| <ul> <li>Including the private sector, government<br/>and academia ("Triple Helix") into the<br/>strategy development process</li> <li>Combining strategy development with<br/>parallel implementation within an agile<br/>approach</li> <li>Ensuring commitment from all stakeholders,<br/>with the private sector as the main "driver"</li> <li>Change management and process<br/>reengineering to support strategy<br/>development and implementation</li> <li>Ensuring sufficient financial resources for<br/>implementing the Kosovo IT Strategy</li> <li>Diversifying financial sources for strategy<br/>implementation (risk management and<br/>contingency planning)</li> <li>Special methodology and tools for IT<br/>strategy development and implementation</li> </ul> | <ul> <li>Involving and aligning the different stakeholders of the Kosovo IT industry</li> <li>Low level of collaboration within local IT industry</li> <li>Complexity and dynamic of the IT industry</li> <li>Volatility and rate of change in IT markets</li> <li>Increasing competitive pressures due to the globalization of the IT industry</li> <li>Lack of consistent ICT policy and strategy</li> <li>Lack of resources for promoting the IT industry in Kosovo</li> <li>Absence of reliable statistical data and information on the Kosovo IT industry</li> <li>Lack of market intelligence on potential export markets</li> <li>Inadequate institutional capacities and support structures</li> <li>Lack of IT strategy know-how</li> </ul> |

The reasons for including the methodology into the strategy document is to provide a guideline and "manual" for the adaptation, further development and continuous improvement of the Kosovo IT Strategy in the future. This is all the more important since the highly dynamic and competitive IT industry requires innovative and future-oriented strategies which can be flexibly adjusted to changing market and technology trends.

Based on the integrated approach for IT sector promotion of GIZ<sup>4</sup> and the above-mentioned success factors and challenges, the strategy working group elaborated a specific methodology for the development (and implementation) of the Kosovo IT Strategy which takes into account the structural characteristics of the Kosovo IT industry. The following chart illustrates the methodology:

<sup>&</sup>lt;sup>4</sup> See GIZ (2011): Manual for IT Sector Promotion in Developing and Emerging Countries.



#### Figure 1: Overview: Methodology for collaborative development of the Kosovo IT Strategy.

The methodology consists of several key elements, including the 8 strategy principles, approach & phases as well as strategy modules, organizational structure, processes and tools. These key elements of the Kosovo IT Strategy will be described in more detail in the following sections of the chapter.

#### 2.1. Principles of the Kosovo National IT Strategy

The 8 principles listed below play an important role within the overall methodology, because they serve as guidelines and framework for the development and implementation of the Kosovo IT strategy. These principles are particularly relevant in light of the collaborative and systemic approach of the IT strategy, as is demonstrated in more detail in the following table.

| Principle                 | Explanation   | Key benefit   |
|---------------------------|---|---|
| Collaboration             | <ul> <li>Collaborative approach engaging all relevant<br/>stakeholders of the Kosovo IT industry</li> <li>Balanced combination of top-down and bottom-<br/>up elements in strategy development</li> <li>Close interaction between actors</li> <li>Integrating internal and external know-how and<br/>ideas</li> <li>Open innovation approach</li> </ul> | <ul> <li>Alignment and better coordination<br/>of measures and resources</li> <li>Possibility to address complex<br/>issues</li> <li>Ownership &amp; motivation</li> <li>Advocacy &amp; collaboration (PPP)</li> </ul>          |
| Agility &<br>Adaptability | <ul> <li>Ability to flexibly adapt the strategy to changing<br/>market and technology trends</li> <li>Implementation of selected support measures<br/>parallel to strategy development process</li> <li>Applying agile methods based on SCRUM to IT<br/>strategy development</li> </ul>   | <ul> <li>Accelerated implementation and<br/>faster results ("time to market")</li> <li>Increased agility and flexibility of<br/>the Kosovo IT industry</li> <li>Generating new sources of<br/>competitive advantages</li> </ul> |

| Principle                                | Explanation  | Key benefit  |
|--|--|--|
|  | <ul> <li>Establishment of dynamic capabilities</li> <li>Strategic patching</li> </ul>  | <ul> <li>Building dynamic competitive<br/>advantages</li> <li>Rapid reaction capabilities</li> <li>Organizational learning ensuring<br/>continuous improvement of the<br/>Kosovo IT Strategy</li> </ul>  |
| Systemic<br>Competitiveness              | <ul> <li>Defining well-coordinated measures by<br/>stakeholders on the different systemic levels<br/>(macro-, meso-, and micro-level)</li> <li>Multi-stakeholder working group</li> <li>Cluster approach</li> </ul>  | <ul> <li>Increased competitiveness of the IT industry on a sustainable basis</li> <li>Higher transparency</li> <li>Alignment and effective communication</li> </ul>  |
| Market<br>Orientation &<br>Strategic Fit | <ul> <li>Designing an IT strategy which bridges the capabilities of the Kosovo IT industry (internal view) with the requirements and key success factors of the target markets (external view) in order to generate sustainable competitive advantages and to successfully position the industry in international markets ("strategic fit")</li> <li>Reflecting the idea of strategy as a link between an organization or industry and its external environment</li> <li>Identifying specific demand structures and requirements in target markets</li> <li>Customer orientation ("user stories")</li> </ul> | <ul> <li>Creating sustainable competitive<br/>advantages</li> <li>Customer orientation (internal &amp;<br/>external)</li> <li>Generating customer value<br/>(internal &amp; external)</li> <li>Tangible benefits for IT companies</li> </ul>                       |
| Sustainability                           | <ul> <li>STIKK as strategy owner and system integrator</li> <li>Modular approach</li> <li>Realistic appraisal of existing capabilities &amp; resources of the Kosovo IT industry</li> <li>Joint capacity building for collaborative strategy development</li> </ul>  | <ul> <li>Generating sustainable competitive<br/>advantages</li> <li>Long-term effectiveness</li> <li>Better resource allocation</li> </ul>   |
| Goal<br>Orientation                      | <ul> <li>Designed to achieve specific goals</li> <li>Goals as roadmap for the development and implementation of the Kosovo IT strategy</li> <li>Integrated goal system</li> <li>Management by Objectives (MbO)</li> </ul>  | <ul> <li>Goals create a common foundation<br/>and direction for collaboration</li> <li>Effective collaboration</li> <li>Focus on implementation and<br/>results</li> <li>Basis for efficient strategy<br/>implementation, monitoring and<br/>evaluation</li> </ul> |
| Resilience                               | <ul> <li>Scenario planning</li> <li>Risk management</li> <li>Contingency plan</li> <li>Multi-stakeholder budgeting</li> </ul>  | <ul> <li>Increased effectiveness</li> <li>Increased adaptability and flexibility</li> <li>Risk reduction</li> </ul>  |
| Continuous<br>Improvement                | <ul> <li>Cyclical approach</li> <li>Lessons learnt and good practices</li> <li>Knowledge &amp; information management</li> <li>Organizational learning</li> </ul>  | <ul> <li>Sustainable competitiveness</li> <li>"Integrated quality management system"</li> <li>Better resource allocation</li> </ul>  |

In this context, the concept of **systemic competitiveness**<sup>5</sup> needs some additional explanation as it is particularly relevant for the Kosovo IT Strategy. The central idea of this concept is that competitiveness results from the interaction of different competitive factors and stakeholders on the different systemic levels of an economic system. Thus, systemic competitiveness cannot be

<sup>&</sup>lt;sup>5</sup> The concept of "Systemic Competitiveness" was originally developed by the German Development Institute (DIE).

achieved through isolated activities of companies or institutions but only through wellcoordinated and targeted measures by all relevant stakeholders on the different systemic levels (macro-, meso-, and micro-level). This holds particularly true for the IT industry, which is highly knowledge-intensive and where different actors are closely interrelated. Therefore, increasing the systemic competitiveness of the Kosovo IT industry requires a collaborative approach and the integration of all relevant stakeholders.

Being the main driver of digital transformation, the IT industry is characterized by shortening innovation cycles, high competitive pressures and increasing globalization. In such an environment, dynamic capabilities and knowledge-based competitive advantages play a crucial role. Accordingly, the Kosovo IT industry needs to prioritize swift and effective capacity-building and learning as well as transformation management in close cooperation with all relevant stakeholders on the different systemic levels. The concept of systemic competitiveness is ideally suited to formulating policy recommendations and supporting measures to promote such learning and transformation processes.

#### **2.2.** Approach and Phases

The next key element of the methodology for the development of the Kosovo IT Strategy is the approach which has been directly derived from the strategy principles described above. Accordingly the approach combines collaboration, agile methods and the concept of strategic fit.

#### 2.2.1. Collaboration

The highly challenging and complex task of promoting the IT industry in Kosovo can only be addressed by a collaborative approach involving all relevant stakeholders, ranging from ministries to the IT association STIKK, individual companies, universities and donors. This also implies a balanced combination of top-down and bottom-up elements in strategy development.

Pursuant to this collaborative approach, the representatives from all relevant stakeholder groups of the Kosovo IT industry formed a joint working group ("strategy group") which assumed responsibility for developing the Kosovo IT Strategy.

The collaborative element of the approach resulted in a regular influx of new ideas and know-how from the members of the strategy group and ensured ownership of the strategy development and implementation process.

The following photos illustrate the collaborative approach of the Kosovo IT Strategy which was elaborated in 8 multi-stakeholder strategy workshops:





Figure 2: Photos from collaborative strategy workshops

#### 2.2.2. Agile methods

Similarly to agile methods used in software development, the development of the Kosovo IT industry follows an agile approach which comprises four iteratively aligned strategy phases:

- Analysis
- Strategy development
- Implementation
- Monitoring & evaluation

To organize and manage the collaborative development of the Kosovo IT Strategy in an effective and agile manner, the four phases were subdivided into **6 individual strategy modules**. The following diagram shows the four phases and the corresponding strategy modules of the overall strategy development process:

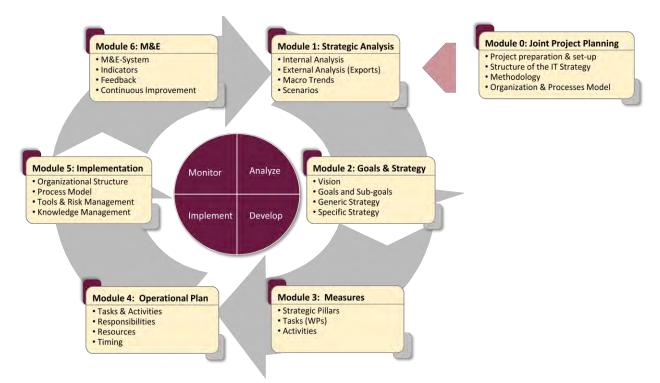


Figure 3: Phases and modules of the IT strategy development process

Each of these modules contained a specific set of IT strategy elements and topics elaborated by the working group within the framework of several strategy workshops. The sequence and content of the modules correspond directly to the structure of the strategy document.

In strategy **module 0** the joint project planning for the Kosovo IT Strategy was conducted including project set-up, methodology, establishing the strategy working group as well as the corresponding process model.

Strategy **module 1**, which corresponds to the analysis phase, encompasses the tasks to be conducted in the framework of the internal analysis of the Kosovo IT industry as well as the external analysis of the potential target markets.

**Module 2 and 3** both belong to the strategy development phase. While module 2 was mostly concerned with the goal setting process and the formulation of the generic strategy and market

entry strategy, module 3 focused on the definition of concrete support measures and activities for the Kosovo IT industry according to the different sub-goals.

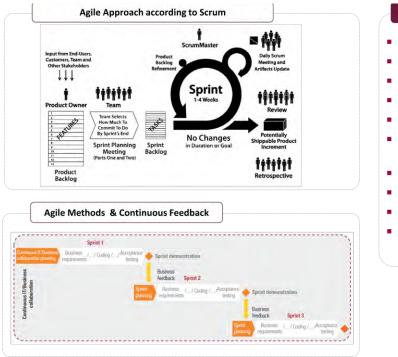
**Module 4 and 5** were part of the implementation phase. They focused on the development of the overall organizational structure, processes and instruments for strategy implementation, including the elaboration of an operational plan.

**Module 6** relates to the monitoring and evaluation (M&E) phase. The module included the development as well as the implementation of an M&E system, in order to evaluate the effectiveness of the measures, provide feedback and ensure continuous improvement of the Kosovo IT Strategy.

As it can be seen from figure 3, the strategy was not developed as a linear process, but rather as a **cycle of iterative, incremental strategy modules**, where the inputs and suggestions provided by the working group feed into defining and optimizing the content of each chapter. Complex elements of the strategy such as the goal system and the operational plan were elaborated in several so-called "sprints" or iterations.

Once strategic measures have been implemented (Module 5), the whole cycle starts again based on the results from monitoring and evaluation (Module 6). This allows for **continuous improvement of the strategy** through constant interaction between strategy formulation and implementation.

The following chart provides a short overview of agile methods according to Scrum<sup>6</sup>, as well as of the agile elements in the Kosovo IT Strategy:



#### Agile Elements in the Kosovo IT Strategy

- Agile principles
- Iterative and incremental process
- IT strategy modules
- Collaborative approach
- Organization: agile teams, product owner
- Parallel implementation (plan, implement, review)
- "User stories" for task descriptions (WPs)
- Implementation in Sprints (based on tasks)
- Strategic patching
- Tools: Trello, Scrum Boards, SharePoint

Figure 4: The agile approach of the Kosovo IT Strategy

<sup>&</sup>lt;sup>6</sup> Scrum is a special agile software development framework. For further information on Scrum please refer to: https://www.scrum.org.

The **agile approach** provides the following benefits for the development and implementation of the Kosovo IT Strategy:

- Promoting adaptive planning and encouraging rapid and flexible response to changing market conditions and technology trends
- Continuous improvement of the Kosovo IT Strategy
- Accelerated implementation of support measures
- Promoting effective collaboration within the strategy working group and the stakeholders of the Kosovo IT industry
- Increasing transparency of the strategy development process

An important element of the agile approach is the **parallel implementation** of selected support measures for the Kosovo IT industry, such as the establishment of the STIKK Training Academy, the introduction of the B2B Export Promotion Service, as well as the organization of business delegations to strategic export markets. In that way, the effectiveness of specific strategy measures could be tested and the results and lessons learnt were directly included in the strategy development process.

#### 2.2.3. Strategic Fit

Another important component of the methodological approach is the so-called strategic fit. It describes the idea of designing an IT strategy which bridges the capabilities of the Kosovo IT industry (internal view) with the requirements and key success factors of its target markets (external view) in order to generate sustainable competitive advantages and to successfully position Kosovo's IT industry in international markets.

According to the agile approach, the strategy development process starts with Module 1, comprising an internal and external analysis. The internal analysis is targeted at assessing the structures, resources and capabilities of the Kosovo IT industry, while the external analysis implies the analysis of potential export target markets in order to identify the relevant key success factors.

| Internal Analysis   | External Analysis  |
|---|--|
| <ul> <li>Analysis by using IT Industry Capability Model<br/>(ITICM):</li> <li>9 IT industry capability dimensions</li> <li>Subdivided in capability factors</li> <li>Analysis of the domestic market</li> <li>Analysis by using the Kosovo IT Industry Barometer</li> </ul> | <ul> <li>Assessment of key export markets: Germany / DACH<br/>Norway, Netherlands, UK</li> <li>Information on size, structure and trends of<br/>potential markets</li> <li>Identification of customer requirements and key<br/>success factors</li> <li>Form: market analysis including expert interviews</li> <li>Qualitative and quantitative information</li> </ul> |

**Competitive advantages** are generated when an organization is able to match its **resources and capabilities** with the **key success factors** of the industry ("strategic fit").



The analysis phase forms the basis for the subsequent strategy development process by providing all relevant information. Without basing the strategy development process upon a thorough analysis, the strategy development would be prone to failure due to a lack of consistency with either the internal or external environment.

With this approach it is possible to overcome the dichotomy often found in many IT industry development strategies between "resource-based strategy" and "market-focused strategy" by combining and integrating both approaches.

Through a combination of collaboration, agile methods and strategic fit, the methodological approach of the strategy aims at creating a "learning system" that ensures systemic competitiveness for the Kosovo IT industry as well as the generation of sustainable competitive advantages. Such a learning system, facilitating the continuous improvement and adaptation of the strategy, is of particular importance for the IT industry, which is characterized by short innovation cycles and intensifying competition.

#### 2.3. Organization

In view of the collaborative and agile approach, the working group plays a key role in developing and implementing the Kosovo IT Strategy. Because of the complexity of elaborating such a strategy for the Kosovo IT industry, all relevant stakeholders were included in the working group, building on the paradigm of the so-called "Triple-Helix", as illustrated in the diagram below:

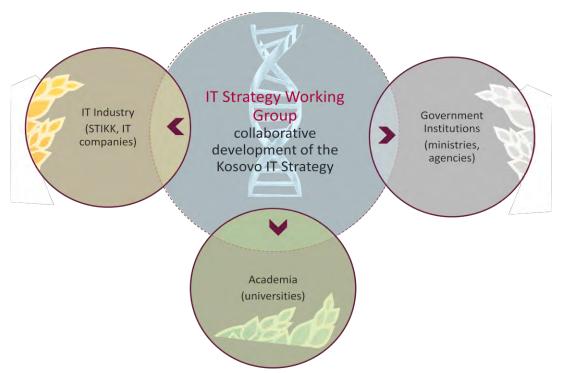


Figure 6: The IT Strategy Working Group and the "Triple Helix"

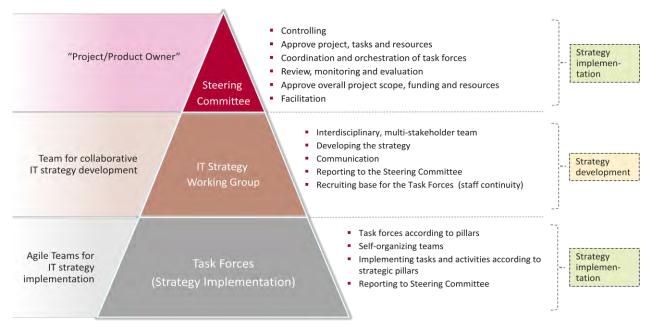
For the purpose of developing the Kosovo IT Strategy, a self-organizing and interdisciplinary working group was established, including the following stakeholders:

| • | Kosovo Association of Information and<br>Communication Technology (STIKK)<br>Innovation Center Kosovo (ICK) | <ul> <li>Ministry of Labour and Social Welfare</li> <li>University of Prishtina</li> <li>Kosovo Investment and Enterprise</li> </ul> |
|---|---|--|
|---|---|--|

| <ul> <li>Ministry of Economic Development</li> <li>Ministry of Trade and Industry</li> <li>Ministry of Education, Science and</li></ul> | <ul> <li>Support Agency</li> <li>German Agency for International</li></ul>                                    |
|---|---|
| Technology <li>Ministry of Finance</li> <li>Ministry of Culture, Youth and Sports</li>  | Cooperation (GIZ) <li>Norwegian Ministry of Foreign Affairs</li> <li>Swiss Development Cooperation (SDC)</li> |

The main function of the working group was to serve as a platform for collaborative strategy development and exchange of ideas, experience and good practices. In line with the agile approach, the strategy was developed, constantly reviewed and improved by the members of the working group in a collaborative, open manner. This experience clearly showed that close cooperation, as well as exchange of knowledge and ideas are essential for enabling consensus and optimal commitment to the strategy and its support measures.

Figure 7 below provides a concise graphic depiction of how the development and implementation of the Kosovo IT Strategy were organized and structured:



# Figure 7: Organizational structure for the development and implementation of the Kosovo IT Strategy

In accordance with the above mentioned methodology, an agile team framework was applied within the strategy working group, placing great emphasis on face-to-face communication and close interaction between team members (see figure 8):

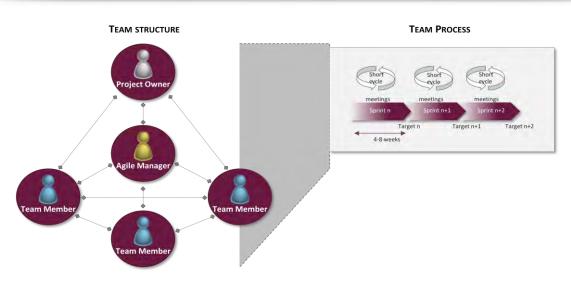


Figure 8: The agile team framework<sup>7</sup>

Through this agile team framework and the strategy workshops (modules), the awareness for collaboration and the systemic nature of competitiveness in the IT industry were established in the working group and the different expectations and views within the group were consolidated and channeled into a shared vision and goals for the Kosovo IT industry.

The allocation of roles and tasks within the agile team framework for strategy implementation will be explained in greater detail in chapter 5.3.

#### 2.4. Processes

Collaborative development of an IT strategy within a multi-stakeholder setting is a highly challenging and complex task, as different stakeholders groups, partners and topics need to be coordinated and aligned. Therefore, the methodology for developing the Kosovo IT Strategy also included a comprehensive process model, comprising two key processes:

#### 1. The overall strategy development process:

This process is based on the cycle of the 6 iterative, incremental strategy modules described above, ranging from module 1 "Strategy Analysis" to module 6 "Monitoring & Evaluation".

#### 2. Process for individual strategy modules:

A specific sub-process was defined, with a view to conducting each of the individual modules of the strategy development process. According to this sub-process, each strategy module consists of pre-module activities, workshop activities and post-module activities. Pre-module activities include the dissemination of articles, studies and information material on the module subject to members of the working group, as well as workshop agenda-setting. Workshop activities, on the other hand, aimed at specifying the content and outputs for each of the strategy modules in several Sprints (iterations). Presentations, discussions, group works and brainstorming sessions are some examples of such activities. Furthermore, workshops are followed by post-module activities, comprising writing, revision and final approval of strategy elements and documents discussed in the working group. In accordance with the strategy's agile model and the corresponding process model, individual modules are also developed and continuously improved within several Sprints (iterations).

Figure 9 illustrates the sub-process for each strategy module, from module initiation to the approval of module results.

<sup>&</sup>lt;sup>7</sup> Based on Scrum.

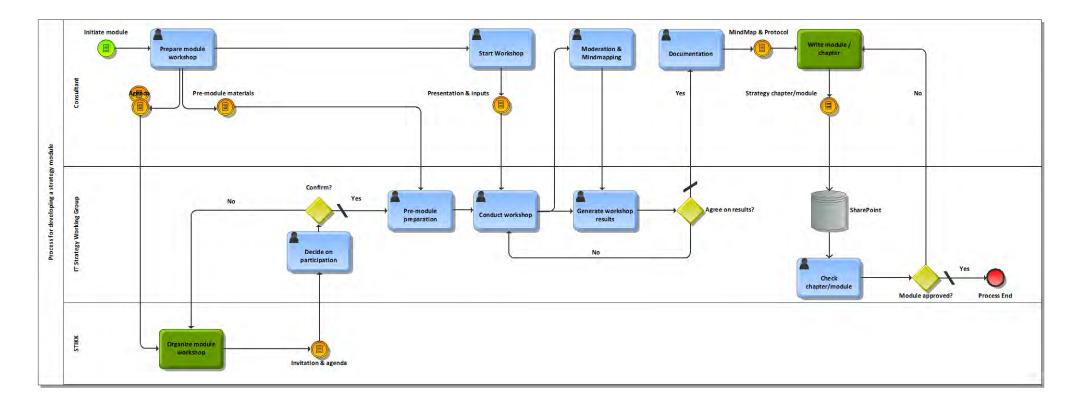


Figure 9: Process for developing the individual strategy modules

The specific allocation of roles and tasks within the strategy module process is described in the following table, illustrating the different process stages:

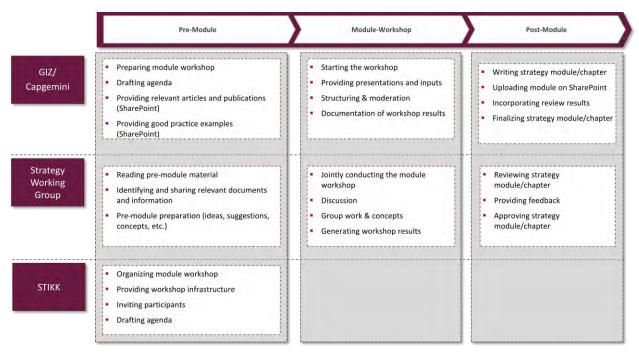


Figure 10: Roles and tasks in the strategy module process

As the above diagrams indicate, the activities of the working group were coordinated by STIKK, in close cooperation with GIZ and the Norwegian Embassy in Prishtina. STIKK also provided the organizational infrastructure for the strategy module workshops, such as location, project managers and support staff.

It is worth pointing out that the overall IT strategy development process also encompassed an open innovation approach, whereby working group members' ideas and inputs were complemented by those of external experts, academics, diaspora members and international strategic partners (e.g. IT clusters and associations from Germany and Norway).

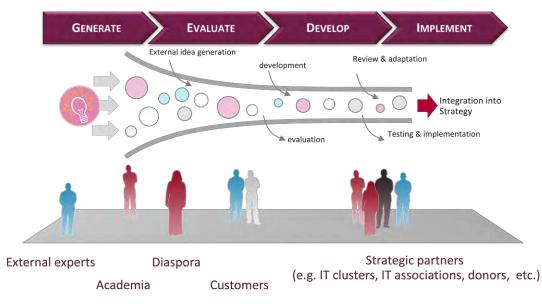


Figure 11: Open innovation

The Kosovo IT Strategy will be elaborated, implemented, monitored, continuously improved and further developed by the working group according to the collaborative-agile approach suggested above. Thus, the development of this strategy is an ongoing process which includes all relevant actors of the Kosovo IT industry.

#### 2.5. Tools

In order to support the collaborative development of the Kosovo IT Strategy, a range of different tools and instruments have been applied. In view of the agile approach to strategy development, strategy workshops have represented the most important tool. These have included moderation techniques such as a meta-plan, group discussions, brainstorming sessions, MindMapping, group works, ASE methods, etc. The table below provides an overview on the different tools and instruments used to develop the Kosovo IT Strategy:

| Moderation techniques  | Other instruments and tools  |  |
|--|--|--|
| <ul> <li>Strategy workshops</li> <li>MindMap</li> <li>Metaplan</li> <li>Group discussions</li> <li>Brainstorming</li> <li>ASE methods</li> </ul> | <ul> <li>SWOT analysis</li> <li>IT industry capability model</li> <li>Transformation maps</li> <li>Scenario analysis</li> <li>Case studies</li> <li>Logic trees</li> <li>LogFrame</li> <li>IT industry barometer</li> <li>Ansoff-Matrix</li> </ul> |  |

From a technical point of view, a collaboration tool or so-called groupware application was introduced to support the strategy development and implementation process.

Collaboration tools are special software (mostly web-based) solutions, which support cooperation in a group over time and space. These tools are suitable for managing complex collaboration processes and joint projects. Although there are different solutions available, including open source software solutions, it was decided to use MS SharePoint, since this is a proven system providing all the necessary functionality to support collaborative strategy development. Besides, many of the strategy working group members are familiar with the SharePoint application and its functionality.

A special SharePoint was established for the Kosovo IT Strategy providing the following key functionality:

| In the component of the scale o | 6 윤 - 순 🔮 Hans - Development d 다 또 🌢 DACHistonel<br>sovo National II Strategy | Territorie   |  | Document Management  |
|--|---|--|--|----------------------|
| 1 - Stratagy Development     The Transform     1 - Stratagy Development     1 - America Constanting strategy is infrastrates     1 - America Constanting strategy is infrastrates     1 - America Constanting strategy is infrastrates     1 - Strategy - America Strategy - Strategy     1 - Strategy - America Strategy - Strategy     1 - Strategy - America  | 2007 line   | Virallier fy<br>Singeren, Tone<br>Singeren, Tone<br>Singeren, Tone<br>Singeren, Tone<br>Singeren, Tone | Bit Burneting Consulting<br>Bit Burneting Consulting<br>Bits<br>Capacernini Consulting<br>Bits<br> | Coordination         |
| Add teacharannee      Antonicianannee      Amara a teacharannee      Calandee      Antonicianannee      Calandee      Antonicianannee      Antonicianan      |   |  | - e tes<br>- s manufi<br>2 u datare du   | Project Management   |
|  |   |  | 10 COD - P - d - C C C C C C C C C C C C C C C C C   | Communication        |
|  |   |  |  | Knowledge Management |

#### Figure 12: SharePoint for the Kosovo IT Strategy

Besides the above mentioned functionality, the SharePoint for the Kosovo IT Strategy provides many additional features, such as discussion boards, calendar, Wiki, workflows, task tracking, surveys, links, etc., as illustrated in figure 13:

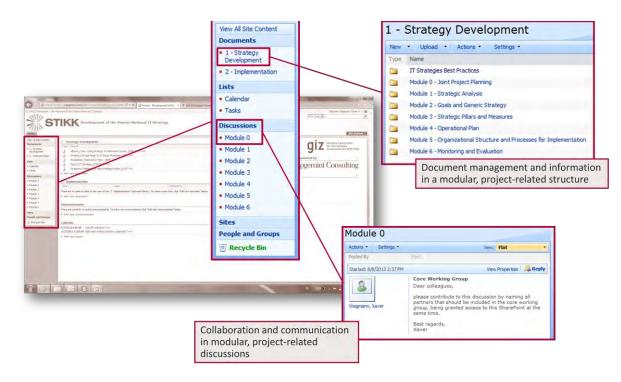


Figure 13: Functionality of the SharePoint for the Kosovo IT Strategy

By providing the above mentioned functionality, SharePoint has been a highly useful web-based platform for communication and cooperation, as well as for dissemination and management of relevant information and knowledge. For instance, SharePoint was used to disseminate information to working group members within the framework of pre-module activities, as well as

to enable joint work on the strategy document. The SharePoint system hence significantly facilitated collaboration within the working group and increased team productivity.

The application also helped establish predictable, repeatable and transparent patterns of collaboration within the strategy development process, thus reinforcing the effectiveness of the used methodology.

Despite being a valuable collaboration tool, allowing for efficient communication and information exchange, Sharepoint is nonetheless clearly not a substitute for direct face-to-face communication and interaction.

### 3. Strategic Analysis

According to the methodology for the development of the Kosovo IT Strategy which has been described previously, this chapter covers the strategic analysis (module 1).

The analysis encompasses the **internal analysis** of the Kosovo IT industry in order to identify capabilities, strengths, problems and challenges of the industry, as well as the **external analysis** of potential export target markets to identify customer requirements and key success factors.

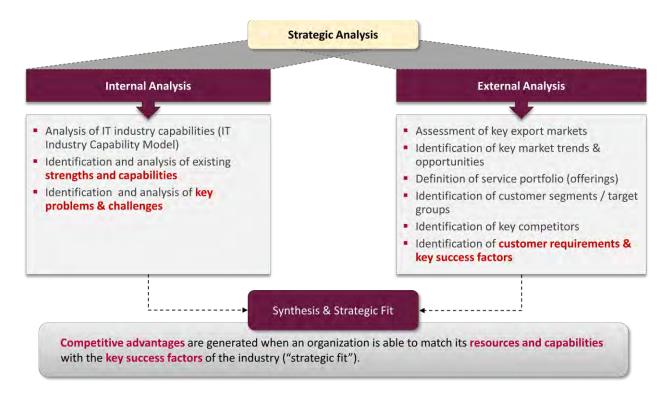


Figure 14: Strategic analysis

As illustrated in figure 14, the goal of this chapter is to provide the analytical basis for the development of a strategy which bridges the capabilities of the Kosovo IT industry with the requirements and key success factors of the target markets (principle of strategic fit). This is done with a view to generating sustainable competitive advantages and turning the national IT industry into a major driver of economic growth, employment and innovation.

#### **3.1.** Internal Analysis

#### 3.1.1. IT Industry Capability Model

In management science, several authors have stressed the importance of resources and capabilities for generating competitive advantages and developing sustainable competitive strategies.<sup>8</sup>

Figure 15 below outlines the dynamic interaction of resources, capabilities and key capabilities / core competencies and illustrates how said interaction generates new competitive advantages.

<sup>&</sup>lt;sup>8</sup> See Prahalad and Hamel (1990), Porter (1990), Grant (2008).

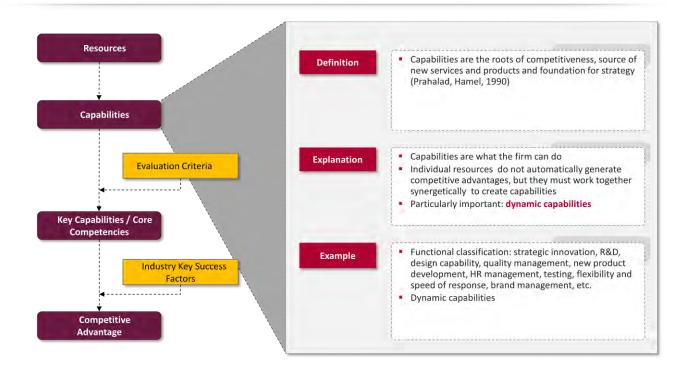


Figure 15: The dynamic interaction of resources, capabilities and competitive advantages

Competitive advantages are generated when an organization is able to match its resources and capabilities with the key success factors of the industry, as shown in the following illustration (figure 16). Unlike some traditional industries, the IT industry exhibits very specific key success factors, which can be mainly attributed to the digital nature of the IT sector, its globalized industry structure and the importance of technology and knowledge.

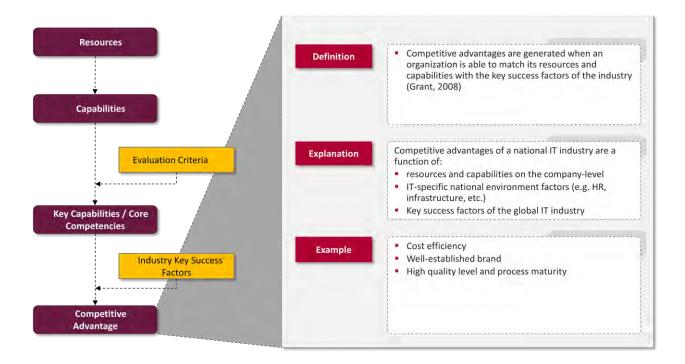


Figure 16: Competitive advantages

Accordingly, one could state that establishing competitive advantages for a national IT industry requires a strategy which takes into account the resources and capabilities on the company level

(micro-level), the IT-specific framework conditions on the national level (meso and macro level) as well as the key success factors of the global IT industry.

There are several analytical tools for identifying the specific capabilities of an organization, including functional analysis, Porter's generic value chain or SWOT analysis. However, all these tools are focused on the corporate level and do not take into account the structural particularities of the IT industry.

Therefore, the strategy working group has applied a special analytical tool for the internal analysis of the Kosovo IT industry, the **IT Industry Capability Model (ITCM)**,<sup>9</sup> developed by the German Agency for International Cooperation (GIZ). This tool consists of 9 IT industry capability dimensions, subdivided into several capability factors. These capability factors have a direct impact on the global competitiveness of a national IT industry. The capability dimensions and factors can be attributed to the three systemic levels (macro, meso, and micro-level).

The model reflects the idea that sustainable IT industry competitiveness depends on a complex system of interconnected capabilities and factors and can only be achieved if all relevant stakeholders on the different systemic levels coordinate their activities and collaborate towards a common vision and goal. The model is closely related to the concept of systemic competitiveness (see previous chapter) and places great emphasis on knowledge-based and technology-based capabilities.

The following sources were used to conduct an internal analysis of the Kosovo IT industry:

- Face-to-face interviews with relevant stakeholders from the Kosovo IT industry, including ministries, agencies, STIKK, ICK, IT companies, universities, donor organizations, chambers of commerce, embassies and IT infrastructure providers (e.g. TK)
- Secondary sources, such as articles, documents and publications on the Kosovo IT industry and economy.
- Results of the Kosovo IT Industry Barometer (KITIB)<sup>10</sup>, conducted by STIKK in cooperation with GIZ in 2014. The industry barometer was designed by GIZ as a special tool to gather and analyze quantitative and qualitative information on industrial performance and generate relevant statistical data. The barometer covers topics such as general company information, statistics (e.g. turnover), human resources (e.g. employment, salary structures), forecasts, and current subjects (feedback function for companies).<sup>11</sup>
- Results of the ICT Market Analysis and Skills Gap Analysis Kosovo, conducted in 2013.<sup>12</sup>
- Results of the Workshop on Strategy Module 1 "Strategic Analysis", conducted by the working group on October 2<sup>nd</sup> 2013.

The following table below summarizes the **results of the internal analysis of the Kosovo IT industry** based on the IT Industry Capability Model, taking into consideration the different capability dimensions and factors:

<sup>&</sup>lt;sup>9</sup> GIZ (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries: 5 ff.

<sup>&</sup>lt;sup>10</sup> STIKK / GIZ (2014): Kosovo IT Industry Barometer (KITIB).

<sup>&</sup>lt;sup>11</sup> GIZ (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries: 71 ff.

<sup>&</sup>lt;sup>12</sup> INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

| Capability<br>Dimension | Capability Factor       | Qualitative Evaluation  | Assessment<br>Value <sup>13</sup> |
|-------------------------|-------------------------|---|-----------------------------------|
|                         | Strategy                | <ul> <li>Currently there is no strategy for promoting the IT industry in Kosovo. The absence of such a strategy severely hampers a coordinated and systematic effort to develop the country's IT sector.</li> <li>Kosovo does not have a comprehensive ICT industry policy.</li> <li>Lack of know-how among stakeholders of the Kosovo IT industry on systematic IT sector promotion.</li> </ul>  | 3                                 |
|                         | Institutions            | <ul> <li>Unlike many other countries in the region, Kosovo does not have a special institution (e.g. IT Ministry / Ministry of Information Society) dedicated to promoting the IT industry and digital transformation of the Kosovo economy.</li> <li>Special advisory institutions on IT like a national CIO or national IT steering committees do not exist in Kosovo.</li> </ul>   | 2                                 |
| State Institutions      | Investment              | <ul> <li>There are no special investment programs in place for the IT industry.</li> <li>In general government institutions are not investing systematically into the promotion of the Kosovo IT industry.</li> <li>Only indirect support of the IT industry through public tenders which regularly reveal irregularities in terms of transparency of tender procedures.</li> <li>There is no systematic approach for promoting foreign direct investment into the Kosovo IT industry.</li> </ul> | 3                                 |
|                         | Support<br>programmes   | <ul> <li>There is a lack of awareness among public stakeholders on the strategic importance of the IT industry for the Kosovo economy.</li> <li>According to STIKK there are no support measures or incentives available for the IT industry.</li> <li>Special industrial zones or incentive schemes like for instance in Macedonia do not exist.</li> </ul>  | 1                                 |
| ICT infrastructure      | Energy supply           | <ul> <li>Energy supply for the Kosovo IT industry is stable and reliable.</li> <li>Due to subsidization, energy costs in Kosovo are among the lowest in the region.</li> </ul>  | 7                                 |
|                         | Telecommunica-<br>tions | <ul> <li>Network coverage is 98%.</li> <li>Telecommunication costs are comparatively high in comparison to other countries in the region but are likely to decrease soon due to deregulation and privatization of the Kosovo telecommunications industry (see Law on Electronic Communication).</li> <li>The most important provider of telecommunication services is Telekomii Kosoves but the number of internet providers is</li> </ul>  | 7                                 |

<sup>&</sup>lt;sup>13</sup> Assessment value on a scale from 1 = poor to 10 = excellent. Assessment has been conducted by the members of the working group for developing the Kosovo IT Strategy.

| Capability<br>Dimension | Capability Factor        | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|-------------------------|--------------------------|--|-----------------------------------|
|                         |                          | <ul><li>constantly growing.</li><li>In general, telecommunication services are competitive on a regional level.</li></ul>  |                                   |
|                         | Internet<br>connectivity | <ul> <li>Based on the quarterly report published by the Regulatory Authority of Electronic and Postal Communications, there are 51 licensed companies (an increase of 14 ISPs that have been licensed, based on Q3 2011) which provide internet services to endusers and 5 (one ISP less, from Q3 2011) companies have licenses for International Internet traffic exchange. The remaining 46 Internet Service Providers have access to the Internet through the main five licensed ISPs.<sup>14</sup></li> <li>On average the internet connectivity is between 2 – 4 Mbps, but can be easily extended due to existing fiber optic network.</li> <li>In urban areas, internet infrastructure is based on fiber optics networks.</li> <li>Prices for internet are affordable for local IT companies and internationally competitive.</li> <li>In summary, internet penetration in Kosovo is at satisfactory levels and can be compared to developed countries. Internet penetration based on households is 84.8% while internet penetration based on users is 76.6%, and geographical Internet penetration shows that on regional roads there are, in average, 9 wireless networks per kilometre.<sup>15</sup></li> </ul> | 8                                 |
|                         | Legal framework          | <ul> <li>The necessary legal framework and infrastructure is in place including laws on electronic communication, information society<br/>services (e-signature, e-payment, etc.), IPR, etc.</li> </ul>  | n.a.                              |
| Demand                  | Export market            | <ul> <li>Exports are becoming increasingly important due to the very limited domestic demand.</li> <li>Market potential: increasing demand for outsourcing / nearshoring particularly in Western Europe.</li> <li>Main target markets: DACH, Scandinavia, Netherlands, UK, USA.</li> <li>Main target industries (verticals) of Kosovo IT exports: IT industry, telecommunications, media, NGOs, financial services, gaming &amp; entertainment, retail, utilities.</li> <li>The results of the KITIB 2014 indicated that Kosovo IT export mostly consisted of software and IT services.</li> <li>Main products / services exported: mobile solutions, web design, IT consulting, e-commerce applications, custom software development / outsourcing, CRM, document management.</li> <li>The IT enterprises interviewed regard exports also as an important means to increase their international competitiveness through technology transfer and higher quality standards.</li> </ul>  | 5                                 |

<sup>&</sup>lt;sup>14</sup> Source: http://www.art-ks.org/repository/docs/Pasqyre%20e%20tregut%20te%20Komunikimeve%20Elektronike%20TM3%20dhe%20TM4\_2012.pdf.

<sup>&</sup>lt;sup>15</sup> STIKK (2013): Internet Penetration and Usage in Kosovo.

| Capability<br>Dimension                          | Capability Factor      | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|--|------------------------|--|-----------------------------------|
|  | Domestic market        | <ul> <li>Kosovo has a small and underdeveloped domestic IT market due to lack of investment and a low level of digitalization and IT usage in the economy.</li> <li>The total value of the Kosovo IT market is expected to account for 126 million in 2014.<sup>16</sup> The compound annual growth rate for the Kosovo IT market in 2015 is projected to reach 4%.<sup>17</sup></li> <li>The structure and size of the domestic market makes it very difficult for local IT companies to establish a sustainable business model and to develop special technical capabilities and profiles.</li> <li>Main target industries (verticals) of Kosovo IT firms: public sector, financial services, utilities, retail, health, tourism, telecommunications, education.</li> <li>Main products / services (horizontals): Web design, IT consulting, e-commerce applications, BI, CRM, document management, IT project management, mobile solutions, custom software development.</li> <li>The most important domestic market segment is the public sector. In the period January 2010 – June 2012, public institutions have procured through public procurement system a total of € 28,269,553 (ICT procurement).<sup>18</sup></li> <li>In the public sector demand for IT applications for health and for education is likely to increase substantially.</li> <li>In the future, the energy sector could be a potential target market for Kosovo IT companies, especially with regards to innovative IT solutions could become a very interesting target market because some of the providers are planning to outsource some of their inhouse IT activities (e.g. software development).</li> <li>Demand from SMEs for IT solutions (particularly ERP applications) is picking up slowly.</li> <li>On the medium to long term, the demographic structure of Kosovo could have a positive impact on domestic demand for IT (especially for mobile apps).</li> </ul> | 3                                 |
| Structural<br>characteristics of<br>the industry | Number of<br>companies | <ul> <li>According to STIKK, there are ca. 120 IT companies in Kosovo employing ca. 3,000 IT professionals.</li> <li>In addition to that there are another 10 IT start-up companies located in the Innovation Center Kosovo (ICK).</li> <li>The presence of international IT companies in Kosovo is very low.</li> </ul>   | 3                                 |

<sup>&</sup>lt;sup>16</sup> STIKK (2014). <sup>17</sup> IDC (2012). <sup>18</sup> STIKK (2012), Public Procurement for ICT in the Period June 2009 – June 2012.

| Capability<br>Dimension | Capability Factor                         | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|-------------------------|---|--|-----------------------------------|
|                         | Average size of companies                 | <ul> <li>The Kosovo IT industry consists of SMEs with an average of 5 – 20 employees.</li> <li>There is a vibrant community of IT freelancers.</li> </ul>  | 3                                 |
|                         | Structure                                 | <ul> <li>According to the results of the KITIB the majority of the Kosovo IT companies provide software and IT services</li> <li>Kosovo IT companies cover a broad range of IT products and services, but there seems to be a focus on software development and particularly on web design and web development.</li> <li>In general there is a low level of specialization and differentiation among the companies in terms of technologies, target industries (vertical specialization) and specific functional areas (horizontal specialization).</li> <li>IT firms follow essentially imitative strategies rather than strategies of innovation and differentiation.</li> <li>The large majority of IT companies in Kosovo are Kosovar owned while the presence of active foreign owned IT companies operating in Kosovo is very small.</li> <li>In comparison to the region, Kosovo IT companies are comparatively young with an average age of 7 years.</li> <li>The IT industry accounted for 2.3% of Kosovo's GDP in 2013<sup>19</sup></li> </ul> | 4                                 |
|                         | Wage structure                            | <ul> <li>Wages in the IT industry are competitive on a regional as well as international level.</li> <li>Average salaries in Kosovo IT companies according to STIKK: <ul> <li>Junior entry level developer: ca. € 250 - 400</li> <li>Junior software developer: ca. € 400 - 500</li> <li>3+ years in software development: ca. € 500 - 900</li> <li>Business analyst/ project manager: ca. 900 - 1,200</li> <li>Senior software developer/ 5+ software developer: ca. 1,200 - 1,600</li> <li>Department manager: ca. € 1,600</li> </ul> </li> <li>The shortage in university graduates could adversely affect salary and price structures in the Kosovo IT industry.</li> </ul>  | 6                                 |
|                         | Organization level<br>and<br>associations | <ul> <li>Established in 2008, STIKK is the central ICT association of Kosovo with 65 member companies and 5 academic partner organizations.</li> <li>STIKK has a well organized and effective organizational structure with a stable membership base. The number of member companies is increasing.</li> </ul>   | 8                                 |

<sup>&</sup>lt;sup>19</sup> Kosovo Agency for Statistics (2013).

| Capability<br>Dimension | Capability Factor | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|-------------------------|-------------------|--|-----------------------------------|
|                         | Cluster           | <ul> <li>At the current state STIKK is organized as an association but the provision of specialized cluster services for its members indicates that STIKK is gradually transforming into an IT cluster with a stronger market orientation.</li> <li>STIKK has also included universities and government institutions into its organizational structure thus indicating the "Triple Helix" structure which is typical for IT clusters.</li> </ul>   | 2                                 |
| Company<br>capabilities | Management skills | <ul> <li>There are deficiencies in the area of management skills particularly in the middle management of the IT companies. This can be mainly attributed to insufficient management education at the university level.</li> <li>Deficits exist especially in the areas of HR management, marketing &amp; sales, project management and product management.</li> <li>In general, managers as well as staff often lack the necessary soft skills.</li> <li>It is likely that the situation is going to improve as more and more MBA graduates are available on the Kosovo labour market.</li> <li>There is a comparatively high fluctuation between companies which can be mainly attributed to a lack of HR management skills.</li> <li>According to the ICT Market Analysis and Skills Gap Analysis Kosovo, the following management skills are needed the most by IT companies: marketing, sales, project management, contract management, business analysis.<sup>20</sup></li> </ul>  | 6                                 |
|                         | Export skills     | <ul> <li>In general the level of export skills is rather limited since only a small number of IT enterprises have international clients and experience in exporting.</li> <li>The small size of IT enterprises also correlates with a lack of resources needed for the successful penetration of export markets.</li> <li>The most important distribution channels for Kosovo IT exporters include direct exports, exporting via the internet as well as exports via distribution partners in the target markets.</li> <li>According to STIKK and the IT companies interviewed, Kosovo IT enterprises need detailed information on potential export markets (market intelligence) in order to better understand the needs and requirements of potential export client.</li> <li>Many companies rely on diaspora contacts for exporting.</li> <li>According to the KITIB, Kosovo IT companies have very good English language capabilities while two-thirds of the companies also have German language capabilities; 50% of the companies have staff with Turkish language capabilities.</li> </ul> | 2                                 |

<sup>&</sup>lt;sup>20</sup> STIKK / INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

| Capability<br>Dimension         | Capability Factor                                    | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|---------------------------------|--|--|-----------------------------------|
|                                 | Technology skills                                    | <ul> <li>In terms of programming languages and development tools companies are mostly focused on Java, JavaScript, HTML, XML, PHP and .NET.</li> <li>According to the KITIB Kosovo IT companies work mostly with the following operating systems and platforms: Windows, Android, iOS and Linux.</li> <li>With regards to database technologies IT companies in Kosovo use mostly mySQL, MS SQL Server, Access, SQL, Oracle and less frequently ODBC.</li> <li>Technology skills of IT firms are mainly focused on proprietary technologies whereas there is a lack of capabilities and know-how in the area of FOSS.</li> <li>In general there is a lack of technical specialization and focus on the company level but also among employees.</li> <li>According to the ICT Market Analysis and Skills Gap Analysis Kosovo, the following technical skills are needed the most by IT companies: CCNP, Java, C++, MySQL, OraclePHP, ASP, Perl, Python, HTML, Linux.<sup>21</sup></li> <li>Kosovo IT companies will have to improve their technical capabilities in the area of the following global IT key trends: Cloud computing, mobile computing, big data and analytics, social media applications, internet of things (IoT) / industry 4.0 and IT security.</li> </ul> | 6                                 |
|                                 | Quality<br>management,<br>processes and<br>standards | <ul> <li>According to the KITIB the majority of the Kosovo IT companies (64%) have no quality certification</li> <li>There are several IT companies certified according to ISO 9001 and ITMark and one company which is ISO 27000 certified.</li> <li>In the area of software testing, several companies have ISTQB certified software testers.</li> <li>There is a general lack of know-how and certifications in process-oriented standards (e.g. BPMN 2.0) as well as in agile methods for software development such as Scrum.</li> </ul>   | 4                                 |
| Academia & support institutions | Education & human resources                          | <ul> <li>The education system reveals severe deficiencies in terms of IT education ranging from secondary education to tertiary education. Despite several attempts for ICT integration into pre-university education, most of these attempts were not successful. However, informatics is a compulsory subject in schools. The current ratio PC/students is 1/50.</li> <li>In total there are 6 universities in Kosovo teaching computer science and IT related subjects, producing ca. 350 IT graduates / year.</li> <li>The output of the universities is insufficient in terms of quality and quantity.</li> <li>IT companies have to invest substantially into university graduates because their skills profile does not match market requirements (some of the companies stated that they have to "retrain" graduates for up to one year). Obviously there is a mismatch between</li> </ul>   | 4                                 |

<sup>&</sup>lt;sup>21</sup> STIKK / INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

| Capability<br>Dimension | Capability Factor                     | Qualitative Evaluation  | Assessment<br>Value <sup>13</sup> |
|-------------------------|---------------------------------------|---|-----------------------------------|
|                         |                                       | <ul> <li>curricula and the requirements of companies. In order to address this problem, an industry advisory board has been established within the University of Prishtina but it is not fully operational yet. STIKK is a member of the industry advisory board.</li> <li>Only 9% of IT firms agree that the educational program (curricula) addresses the required working skills in the IT sector.<sup>22</sup></li> <li>The four most important universities in Kosovo providing study programs in computer science are: the University of Prishtina, American University in Kosovo, University for Business and Technology and AAB Riinvest University.</li> <li>The most important university for IT studies is the University of Prishtina, offering bachelor and master programs. For the academic year 2011/2012, 550 students started their studies in the subjects computer engineering, electrical engineering, automation, electronics and energetic, while only 139 students graduated. The study programs of the University of Prishtina include a compulsory internship of 3 months. There are cooperation and exchange programs with Norway, Sweden and Austria and the university participates in the Tempus Program.</li> <li>A key problem is the high drop-out rate, since many IT students start working without graduating.</li> <li>There is still a strict division of subjects within the IT education system. Hybrid study programs such as business informatics do not exist.</li> <li>Universities are severely underfunded.</li> <li>The academic infrastructure, particularly buildings and IT labs need substantial investments.</li> </ul> |                                   |
|                         | Continuous<br>education &<br>training | <ul> <li>Overall, the system for continuous education and training in Kosovo reveals substantial deficits. There is no institution providing specialized continuous educations programs or trainings for IT professionals. The universities neither have the mandate nor the capabilities for providing continuous education and training.</li> <li>There are ca. 16 companies providing standard trainings for CISCO, Microsoft, etc.</li> <li>Companies usually conduct inhouse trainings and some enterprises have even special training and development tracks for their employees.</li> <li>In the framework of the Kosovo IT Strategy, STIKK has established the STIKK Training Academy which is likely to significantly improve the situation by providing specialized technical as well as management trainings for IT companies.</li> </ul>  | 5                                 |
|                         | Research &<br>development             | <ul> <li>There are only very little R&amp;D activities on the university and company level. The University of Prishtina has tried to conduct R&amp;D activities in the framework of FP7 projects. Universities lack the necessary IT infrastructure (IT labs).</li> </ul>   | 2                                 |

<sup>&</sup>lt;sup>22</sup> STIKK / INDEXKOSOVA (2013): ICT market analysis and skills gap analysis Kosovo.

| Capability<br>Dimension       | Capability Factor                            | Qualitative Evaluation   | Assessment<br>Value <sup>13</sup> |
|-------------------------------|--|--|-----------------------------------|
|                               |  | <ul> <li>The necessary capabilities as well as resources are currently not available.</li> </ul>   |                                   |
|                               | Capital & financing                          | <ul> <li>There are no special financial schemes available for the IT industry.</li> <li>Lack of financing is a serious obstacle for Kosovo's IT industry growth. It is very difficult for companies to get loans due to high interest rates and collateral.</li> <li>Particularly financing export activities is a challenge for IT SMEs since there are no export financing schemes available.</li> <li>At the current stage, venture capital (VC) is not available in Kosovo.</li> </ul> | 1                                 |
|                               | Image & branding                             | <ul> <li>Due to ethnic tensions in the aftermath of the war and a rather negative international press coverage, Kosovo has an image problem abroad which is also negatively affecting the export performance of the IT industry.</li> <li>There is an obvious lack of national branding to position Kosovo as an attractive IT industry location.</li> </ul>   | 2                                 |
|                               | Offshore /<br>nearshore factors              | <ul> <li>Kosovo is ideally suited as a nearshoring destination due to its geographic and cultural proximity as well as language capabilities.</li> <li>In terms of exporting and providing nearshoring services, visa restrictions are a severe obstacle for companies.</li> </ul>   | 8                                 |
| International                 | Intellectual<br>property (IP)                | <ul> <li>The necessary laws are in place but not exhaustively enforced.</li> </ul>   | 2                                 |
| linkage & branding            | Linkages and networks                        | <ul> <li>STIKK is member of the European PIN SME, WITSA and the SEEITA and SEE ICT Forum.</li> <li>STIKK has established cooperation with IKT Norge (Norway), the German Austrian Swiss Outsourcing Association (GOA), the IT cluster bwcon in Stuttgart and the Bavarian ICT Cluster BICCnet in Munich.</li> </ul>  | 5                                 |
|                               | Diaspora                                     | <ul> <li>The Kosovo IT industry can draw on a very strong and well organized diaspora abroad, particularly in Germany (e.g. DIJA, IDEAL), UK and USA.</li> <li>Associations of Kosovo students abroad (e.g. Association of Albanian and Kosovo Students at the Technical University of Darmstadt, Germany) provide an interesting potential for cooperation.</li> </ul>  | 6                                 |
| Innovation & entrepreneurship | Institutional<br>framework for<br>innovation | <ul> <li>In general, the government sees innovation as having an important role in Kosovo's economic and social development</li> <li>Kosovo's innovation system as well as its entrepreneurial ecosystem is still at a very early stage. A major obstacle for innovative firms is the lack of access to finance.</li> </ul>  | 1                                 |

| Capability<br>Dimension | Capability Factor                                | Qualitative Evaluation  | Assessment<br>Value <sup>13</sup> |
|-------------------------|--|---|-----------------------------------|
|                         |  | <ul> <li>Linkages to the diaspora could play an important role in channelling new know-how, ideas and financial resources to Kosovo's<br/>innovation system.</li> </ul>   |                                   |
|                         | Public sector based<br>research &<br>innovation  | <ul> <li>There is only very little public sector based research and innovation activity in the IT sector due to lack of resources and constraints in terms of R&amp;D capabilities. This substantially limits the ability of universities and institutes to conduct more applied research in support of Kosovo's IT industry.</li> <li>R&amp;D in Kosovo is characterized by weak cooperation between the private sector and universities.</li> <li>Research &amp; innovation activities are mostly carried out in the framework of FP7 and Horizon2020 projects.</li> <li>Basic research or product innovation is basically not taking place in Kosovo's IT sector.</li> </ul> | 1                                 |
|                         | Private sector led<br>research &<br>innovation   | <ul> <li>STIKK and the ICK are playing a key role in Kosovo's innovation system by promoting entrepreneurship and innovation in the IT industry.</li> <li>ICK manages an incubator and supports innovative IT start-ups.</li> </ul>   | 3                                 |
| Dynamic<br>capabilities | Detection<br>(monitoring,<br>scanning, scouting) | <ul> <li>Concerning the detection of relevant technology and market trends, STIKK as well as the universities are playing a key role.<br/>However, due to the very limited resources available, their ability for monitoring, scanning and scouting is rather restricted.</li> <li>STIKK is in the process of establishing specialized cluster services in order to monitor and scan IT market and technology trends on a regular basis.</li> </ul>   | 4                                 |
|                         | Strategic response<br>development                | <ul> <li>In view of the high complexity and dynamic of the global IT industry, the strategic response capability of the Kosovo IT industry and government institutions is insufficient.</li> <li>The collaborative development of the Kosovo IT Strategy is an important step to substantially improve the strategic response capabilities of Kosovo IT industry stakeholders.</li> </ul>   | 4                                 |
|                         | Joint learning & capacity building               | <ul> <li>Joint learning &amp; capacity building has been very limited within the Kosovo IT industry due to lack of effective cooperation between stakeholders and absence of suitable organizational structures and instruments.</li> <li>The establishment of the STIKK training academy in the framework of the Kosovo IT Strategy has considerably improved the capability for joint learning and capacity building.</li> </ul>  | 4                                 |

| Capability<br>Dimension | Capability Factor                        | Qualitative Evaluation  | Assessment<br>Value <sup>13</sup> |
|-------------------------|--|---|-----------------------------------|
|                         | Change<br>management &<br>Implementation | <ul> <li>There is a lack of know-how on suitable methods and instruments for change management and implementation with regards to IT sector promotion.</li> <li>Change management and implementation capabilities are also very limited because of the low level of cooperation between private and public actors in the Kosovo IT industry.</li> </ul> | 3                                 |

In addition to the results of the internal analysis presented above, the working group also conducted a quantitative assessment of the different capability dimensions and capability factors. Furthermore, the capability dimensions of the Kosovo IT industry were weighted and the capability value calculated. The results of this quantitative assessment are included in appendix 1.

# 3.1.2. Key Problems & Challenges

Based on the results of the internal analysis using the IT Industry Capability Model, the following key problems and challenges for the Kosovo IT industry were identified:

- At present, Kosovo does not have a specific strategy or policy to promote the IT industry systematically.
- There is a lack of awareness among public stakeholders on the strategic importance of the IT industry for the Kosovo economy.
- Stakeholders of the Kosovo IT industry lack the necessary know-how and resources for IT sector promotion.
- There is a lack of collaboration between the stakeholders of the Kosovo IT industry.
- There are deficiencies in the institutional framework for IT sector promotion. Unlike many
  of its neighboring countries, Kosovo neither has an IT ministry nor an IT promotion
  agency.
- Kosovo has a comparatively small and underdeveloped domestic market. Due to its size and structure, the domestic market is not able to generate a growth impulse for the Kosovo IT industry or to promote local innovation.
- Deficiencies in public IT procurement further reduce the growth potential of the domestic market.
- Overall, there is a low level of specialization and differentiation among IT companies in terms of technologies, target industries (vertical specialization) and specific functional areas (horizontal specialization).
- Lack of scale due to the SME-dominated structure of the Kosovo IT industry.
- On the corporate level, there are deficiencies in the area of management skills, particularly in the middle management of the IT companies. Deficits exist especially in the areas of HR management, marketing & sales, export management and project management
- There is a high fluctuation between companies, which can be mainly attributed to a lack of IT professionals and graduates as well as insufficient HR management.
- Kosovo IT companies exhibit a lack of specialized technical skills with regards to software engineering, software testing, FOSS, IT security, agile methods, cloud computing, big data & analytics, mobile computing and technologies related to industry 4.0 (embedded software, automation, etc.).
- In comparison to regional and international competitors, the maturity level of processes and quality management systems is too low. This is also reflected in the comparatively low percentage of Kosovo IT companies having a quality certification (e.g. ISO, CMMI, ITMark).
- There is a lack of information on IT market and technology trends, especially with regards to potential export markets.
- In the education system (tertiary education) there is a severe mismatch between curricula and the requirements of IT companies. The output of the universities is insufficient in terms of quality and quantity of graduates in IT subjects, which is negatively affecting the overall competitiveness of the Kosovo IT industry.
- There is a lack of qualified IT staff, which has a negative impact on the competitiveness of Kosovo IT enterprises.
- The system for continuous education and training in Kosovo exhibits substantial flaws. There is a lack of specialized trainings for IT professionals.
- Access to capital represents a serious obstacle for Kosovo's IT industry growth, as it is very difficult for companies to obtain loans due to high interest rates and collateral.

- There is a lack of branding and positioning of Kosovo as an attractive IT industry location. Moreover, Kosovo has an image problem abroad, which is negatively affecting the export performance of the IT industry.
- Visa requirements represent a serious obstacle to the export activities of Kosovo IT companies.
- Kosovo's innovation and R&D system is still at a very early development stage, which can be attributed to inadequate resources and R&D capabilities.
- In view of the high complexity and dynamic character of the global IT industry, the strategic response capabilities and the so-called dynamic capabilities of the Kosovo IT industry and government institutions are deemed insufficient.

# **3.1.3.** Strengths & Capabilities

Taking into account the results of the internal analysis, the strategy working group identified the following strengths and capabilities of the Kosovo IT industry:

- Overall, the ICT infrastructure in Kosovo is comparatively good and competitive on a regional level. Internet connectivity and penetration are above the regional average.
- There is a substantial market potential for Kosovo IT exports (software and IT services) due to increasing demand for outsourcing / nearshoring, particularly in DACH, Scandinavia, Netherlands, the UK and the USA.
- In the domestic market, some Kosovo IT companies exhibit "vertical capabilities" in telecommunications, health and energy. This vertical specialization could become an important competitive advantage in view of the growth dynamics of these industries in the domestic as well as international markets.
- Kosovo IT companies reveal specific capabilities in the areas of custom software development, web development/web design, mobile applications and software testing.
- Wages and cost structures in the Kosovo IT industry are competitive on a regional, as well as international scale.
- With the IT association STIKK, the sector has a highly professional and effective organizational structure promoting the development of the IT industry in Kosovo.
- Kosovo IT companies have build up capabilities in the areas of software testing (ISTQB) and IT security (ISO 27000).
- Kosovo is ideally suited as a nearshoring destination due to its geographic and cultural proximity, as well as language capabilities.
- The availability of German language capabilities in many Kosovo IT companies represents an important competitive advantage with regards to the DACH market.
- The Kosovo IT industry can draw on a very strong and well organized diaspora abroad, particularly in Germany, Switzerland, the UK and the USA.
- The establishment of the STIKK Training Academy within the framework of the Kosovo IT Strategy has considerably improved the capability for joint learning and capacity-building in the Kosovo IT industry.
- There is a pool of highly-qualified IT freelancers in Kosovo, whose skills can be used by national IT enterprises.
- The overall the demographic and education profile of young people in Kosovo ("young digerati"), in combination with rising interest in IT studies, represent an important competitive factor for Kosovo's IT industry.

# 3.2. External Analysis

#### 3.2.1. Analysis of potential Export Target Markets

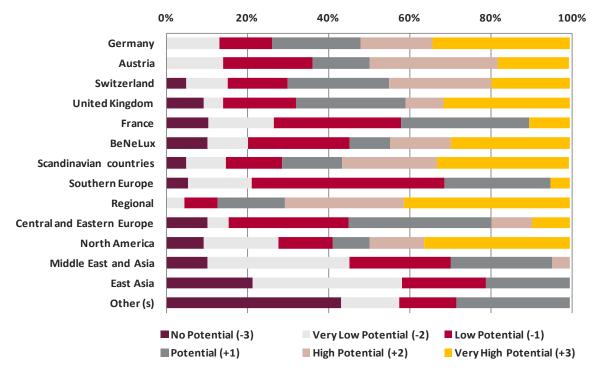
The second part of the strategic analysis comprises the assessment of potential export markets for the Kosovo IT industry. The aim of this external analysis is to provide information on the size, structure and key trends of potential export markets and to identify customer requirements and key success factors. This information is essential for achieving the strategic fit between capabilities and customer demand which is one of the cornerstones of this strategy and the basis for generating sustainable competitive advantages for the Kosovo IT industry.

The external market analysis will focus on Germany, Norway, the Netherlands and the UK. The working group selected these countries as strategic export target markets, based on the following selection criteria:

- Market size and market potential
- Demand structure ("skills shortage") and requirements
- Nearshoring aspects and geographical proximity
- Relevant customer segments (e.g. SMEs)
- Existing references and linkages
- Language capabilities
- Competitive pressure
- Strategic fit

During the selection process, the working group also took into consideration the results of the Kosovo IT Industry Barometer (KITIB) 2014, which revealed that in 2013 the most important export markets for the Kosovo IT industry were the DACH countries, accounting for 29% of Kosovo's IT exports, followed by Scandinavian countries with 22%, and Benelux.<sup>23</sup>

Also, in terms of export potential, participants in the KITIB placed DACH, the Scandinavian countries, UK and Benelux at the top of the ranking.



#### Figure 17: Potential of Export Markets

Source: STIKK & GIZ: Kosovo IT Industry Barometer 2014

<sup>&</sup>lt;sup>23</sup> STIKK / GIZ (2014): Kosovo IT Industry Barometer.

On behalf of STIKK and the strategy working group, a thorough analysis of the IT markets in Germany, Norway, the Netherlands and the UK was conducted by Capgemini Consulting. In the following section, the results of the market analysis will be summarized by presenting the size, structure and key trends for each of the selected export target markets.

The focus of the presentation will be on the IT market segments having the highest relevance for Kosovo IT companies, i.e. software and IT services. The complete version of the market analysis can be obtained from STIKK or from the Kosovo IT Strategy SharePoint.<sup>24</sup>

## 3.2.1.1. IT Market Analysis Germany

#### **Germany: ICT Market Overview**

#### **Table 1: ICT Market Overview Germany**

|                                 | Total ICT market value by segment 2010-2014 (in € billion) |       |       |       |       |
|---------------------------------|--|-------|-------|-------|-------|
| Segment                         | 2010   | 2011  | 2012  | 2013  | 2014* |
| IT Equipment                    | 14.3   | 14.2  | 15.1  | 15.1  | 15.0  |
| Software                        | 15.5   | 16.2  | 17.1  | 17.8  | 18.7  |
| IT Services                     | 33.1   | 34.2  | 34.9  | 35.8  | 37.0  |
| Telecommunications<br>Equipment | 9.9  | 10.8  | 12.1  | 13.7  | 14.3  |
| Telecom Services                | 47.4   | 46.7  | 46.4  | 45.4  | 44.7  |
| Total ICT                       | 120.2  | 122.1 | 125.6 | 127.8 | 129.7 |

Total ICT market growth rates by segment 2011-2014 (in %)

| Segment                      | 2011  | 2012  | 2013  | 2014* |
|------------------------------|-------|-------|-------|-------|
| IT Equipment                 | -1.2% | 6.7%  | -0.2% | -0.6% |
| Software                     | 4.9%  | 5.1%  | 4.6%  | 5.0%  |
| IT Services                  | 3.4%  | 21.0% | 2.5%  | 3.4%  |
| Telecommunications Equipment | 9.3%  | 11.7% | 13.0% | 4.7%  |
| Telecom Services             | -1.6% | -0.5% | -2.2% | -1.6% |

<sup>&</sup>lt;sup>24</sup> Kosovo IT Strategy SharePoint: https://troom-

x.capgemini.com/sites/ccdach/itstrategykosovo/default.aspx?PageView=Shared.

|           | Total ICT market value by segment 2010-2014 (in € billion) |      |      |      |       |
|-----------|--|------|------|------|-------|
| Segment   | 2010   | 2011 | 2012 | 2013 | 2014* |
| Total ICT |  | 1.6% | 2.9% | 1.8% | 1.5%  |

\*Estimated values

Source: EITO 2013

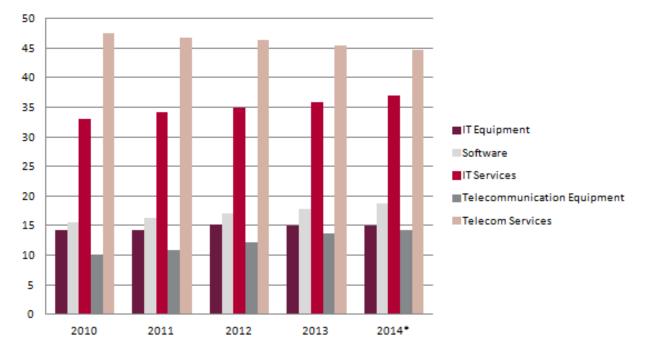


Figure 18: ICT market value by segment (in € billion)

Source: EITO 2013

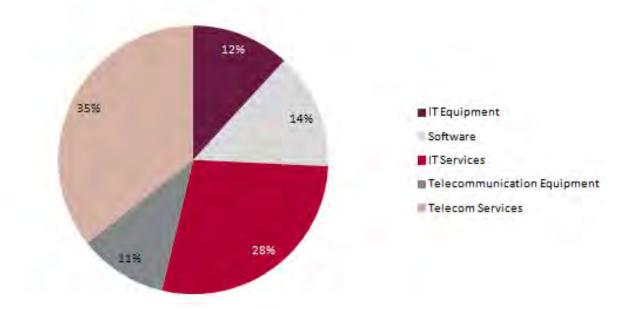


Figure 19: ICT market shares by segment (2013, in %) Source: EITO 2013

# Germany: Software Market

# Table 2: Software Market Germany

|                                   | Total software market value by segment 2010-2014 (in € billion) |      |      |      |       |
|-----------------------------------|---|------|------|------|-------|
| Segment                           | 2010  | 2011 | 2012 | 2013 | 2014* |
| System Infrastructure<br>Software | 3.8   | 3.9  | 4.0  | 4.1  | 4.3   |
| Applications D&D                  | 3.8   | 4.0  | 4.2  | 4.4  | 4.7   |
| Applications                      | 7.9   | 8.4  | 8.9  | 9.3  | 9.7   |
| Total software                    | 15.5  | 16.2 | 17.1 | 17.8 | 18.7  |

Total software market growth rates by segment 2011-2014

|                                |      | (Ir  | 1 %) |       |
|--------------------------------|------|------|------|-------|
| Segment                        | 2011 | 2012 | 2013 | 2014* |
| System Infrastructure Software | 2.1% | 3.5% | 3.2% | 4.0%  |
| Applications D&D               | 4.3% | 6.0% | 5.7% | 6.0%  |
| Applications                   | 6.5% | 5.5% | 4.7% | 5.0%  |
| Total software                 | 4.9% | 5.1% | 4.6% | 5.0%  |

\*Estimated values Source: EITO 2013

# **Germany: IT Services Market**

# Table 3: IT Services Market Germany

|                            | Total IT s  | Total IT services market value by segment 2010-2014 (in € billion) |      |      |       |
|----------------------------|---|--|------|------|-------|
| Segment                    | 2010  | 2011   | 2012 | 2013 | 2014* |
| Projects                   | 8.0   | 8.3  | 8.5  | 8.7  | 9.0   |
| Outsourcing (excl.<br>BPO) | 12.5  | 13.0   | 13.3 | 13.8 | 14.3  |
| Support & Deploy           | 6.4   | 6.5  | 6.5  | 6.5  | 6.6   |
| BPO Services               | 6.1   | 6.4  | 6.5  | 6.8  | 7.1   |
| Total IT services          | 33.1  | 34.2   | 34.9 | 35.8 | 37.0  |
|                            | Total IT services market growth rates by segment 2011-<br>2014 (in %) |  |      |      |       |

| Segment                 | 2011 | 2012 | 2013 | 2014* |
|-------------------------|------|------|------|-------|
| Projects                | 3.6% | 2.5% | 2.2% | 3.0%  |
| Outsourcing (excl. BPO) | 3.7% | 2.7% | 3.2% | 4.0%  |
| Support & Deploy        | 1.4% | 0.6% | 0.2% | 1.0%  |
| BPO Services            | 4.5% | 1.6% | 3.9% | 4.8%  |
| Total IT services       | 3.4% | 2.1% | 2.5% | 3.4%  |

\*Estimated values Source: EITO 2013

## Germany: Key IT Market Trends

Based on the results of the analysis of the German IT market, the following key market trends were identified for the relevant market segments of software and IT services:<sup>25</sup>

- Software is the main growth driver in the German ICT market: 4.6% (2013).
- There are approximately 33,000 companies in Germany active in the area of software development.
- Perennial hot topic IT security: increasing spending on security applications, in order to cope with security challenges such as malware, identity theft, data loss, and cyber crime.
- Usage of OSS is clearly on the increase and is playing an important role within the German IT market.
- Mobile computing/mobile applications play an increasingly important role in the German software market; Use of enterprise mobile apps will expand, and HTML5 is likely to have a substantial impact on the market.
- Social media have become a hot topic within the German software market: integration, social media analytics, social CRM applications, etc.
- Vertical drivers of the German software market: automotive, financial services, machinery, health.
- Distinctive market feature: importance of SMEs (demand & supply side).
- The German IT services market is the EU's second largest, with 36 EUR billion market volume in 2013 and projected growth of 3.4% for 2014.
- German companies continue to invest in projects and third-party services to implement virtualization, automation and cloud technologies.
- Outsourcing continues to be the major growth driver of the IT services market.
- Standardization of technologies & processes will lead to stronger specialization and modularization within the IT services value chain. Consequence: Big IT service providers "outsource outsourcing" creating market opportunities for Kosovo IT companies by positioning themselves as specialist partners.
- Introduction of more offshore and nearshore resources into the IT services value chain in order to reduce costs.

<sup>&</sup>lt;sup>25</sup> Sources: EITO 2013, Gartner, CIO.de, Ovum, Silicon.de, PAC, IDC, Computerwoche.de, IT Sourcing Europe, BITKOM, Capgemini.

- Vertical drivers of the IT services market: manufacturing industry, banks, insurances, retail, public sector.
- New requirement: agility: faster development of new applications and faster customization and modification of existing applications.
- Total market value of the outsourcing segment accounted for € 15.6 billion (2013) representing 44.8% of the overall IT services market.
- Outsourcing likely to remain the most dynamic and fastest growing market segment within IT services.
- Overall: interest in outsourcing is increasing among German companies and the market segment is becoming more mature.
- Heavy users of outsourcing services: financial services, telecommunication, insurance, retail, manufacturing.
- Drivers of the outsourcing market: cost reduction, standardization, and increasing flexibility; changes in the motivation for outsourcing from pure cost-cutting to increasing flexibility (resources) and focus on core business.
- In general, German companies show a preference for nearshoring to nearby countries (Eastern Europe), while language, cultural issues, distance and rising wages limit offshoring to India.
- Cloud computing will have a substantial impact on the outsourcing market: technology, delivery, governance, contracts, pricing, controlling.
- Managed testing services: German outsourcing customers are increasingly interested in testing services from Eastern Europe, especially energy & utilities and financial services industry.
- In general: greater emphasis on formal IT education (university degree) and certification.
- Growing demand for big data management, analytics, BI: competences in data-mining, statistical methods and data structures.
- Most sought-after skills in terms of programming languages: Java, C/C++, C#, .Net, PHP, ABAP4; demand for Java will further increase due to Android.
- Overall: demand for offshoring/nearshoring will further increase due to the digital transformation of the German economy and skills shortages.

## 3.2.1.2. IT Market Analysis Norway

#### Norway: ICT Market Overview

#### **Table 4: ICT Market Overview Norway**

|                                 | Total ICT market value by segment 2010-2014 (in € billion) |      |      |      |       |
|---------------------------------|--|------|------|------|-------|
| Segment                         | 2010   | 2011 | 2012 | 2013 | 2014* |
| IT Equipment                    | 1.4  | 1.5  | 1.6  | 1.6  | 1.6   |
| Software                        | 1.6  | 1.7  | 1.8  | 1.9  | 2.0   |
| IT Services                     | 4.3  | 4.5  | 4.5  | 4.7  | 4.9   |
| Telecommunications<br>Equipment | 1.0  | 1.1  | 1.2  | 1.3  | 1.3   |

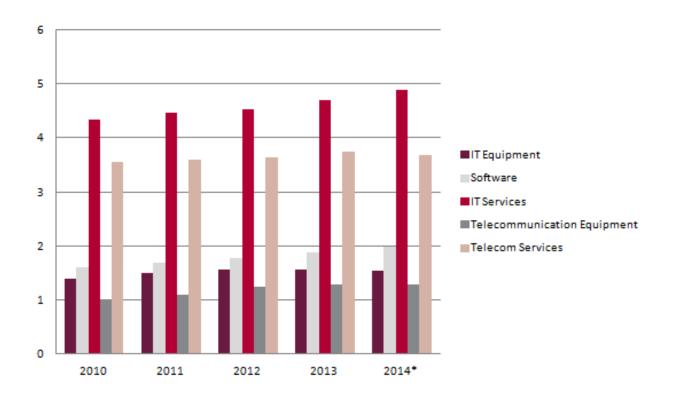
|                  | Total ICT market value by segment 2010-2014 (in € billion) |      |      |      |       |  |  |
|------------------|--|------|------|------|-------|--|--|
| Segment          | 2010   | 2011 | 2012 | 2013 | 2014* |  |  |
| Telecom Services | 3.6  | 3.6  | 3.6  | 3.7  | 3.7   |  |  |
| Total ICT        | 11.9   | 12.3 | 12.8 | 13.2 | 13.4  |  |  |

Total ICT market growth rates by segment 2011-2014 (in %)

| Segment                      | 2011  | 2012  | 2013 | 2014* |
|------------------------------|-------|-------|------|-------|
| IT Equipment                 | 7.7%  | 4.6%  | 0.1% | -1.3% |
| Software                     | 4.9%  | 5.6%  | 5.7% | 5.8%  |
| IT Services                  | 2.6%  | 1.6%  | 3.8% | 4.2%  |
| Telecommunications Equipment | 13.7% | 12.3% | 4.2% | 0.8%  |
| Telecom Services             | 1.0%  | 1.6%  | 2.5% | -1.3% |
| Total ICT                    | 3.9%  | 3.5%  | 3.3% | 1.9%  |

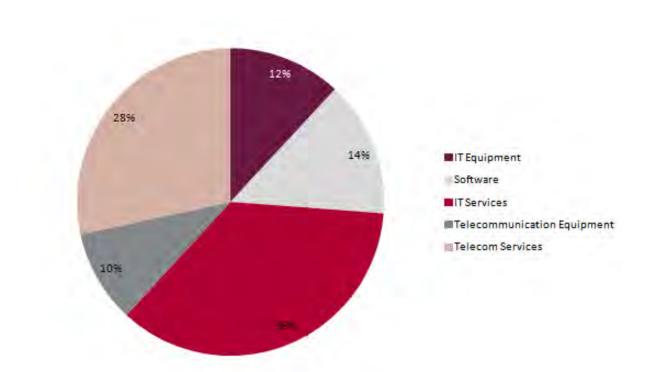
\*Estimated values

Source: EITO 2013



# Figure 20: ICT market value by segment (in € billion)

Source: EITO 2013



# Figure 21: ICT market shares by segment (2013, in %)

Source: EITO 2013

# Norway: Software Market

# Table 5: Software Market Norway

|  | Tota    | Total software market value by segment 2010-2014 (in € billion) |             |              |             |             |       |  |
|--|---------|---|-------------|--------------|-------------|-------------|-------|--|
| Segment                                | 2011    | 2012  | 2013        | 2014*        | 2015*       | 2016*       | 2017* |  |
| Infrastructure<br>software & platforms | 0.4     | 0.4   | 0.4         | 0.4          | 0.4         | 0.5         | 0.5   |  |
| Application software<br>products       | 0.8     | 0.9   | 0.9         | 0.9          | 1.0         | 1.0         | 1.0   |  |
| SaaS                                   | 0.0     | 0.0   | 0.0         | 0.1          | 0.1         | 0.1         | 0.1   |  |
| Total software                         | 1.3     | 1.3   | 1.4         | 1.4          | 1.5         | 1.6         | 1.6   |  |
|  | Tota    | l software ı  | market grov | wth rates by | v segment 2 | 011-2014 (i | n %)  |  |
| Segment                                | 2012/11 | 2013/12   | 2014/13*    | 2015/16*     | 2016/17*    | 2017/16*    | CAGR  |  |
| Infrastructure software & platforms    | 3.8%    | 4.0%  | 3.7%        | 2.9%         | 2.2%        | 1.6%        | 2.6%  |  |
| Application software<br>products       | 4.2%    | 4.3%  | 4.0%        | 3.7%         | 3.4%        | 3.1%        | 3.6%  |  |
| SaaS                                   | 24.6%   | 24.9%   | 24.0%       | 22.8%        | 21.8%       | 20.7%       | 22.3% |  |

|                | Total software market value by segment 2010-2014 (in € billion) |      |      |       |       |       |       |
|----------------|---|------|------|-------|-------|-------|-------|
| Segment        | 2011  | 2012 | 2013 | 2014* | 2015* | 2016* | 2017* |
| Total software | 4.5%  | 4.7% | 4.5% | 4.2%  | 3.9%  | 3.6%  | 4.0%  |

\*Estimated values Source: PAC 2013

## Norway: IT Services Market

# Table 6: IT Services Market Norway

|                                 | Total IT services market value by segment 2010-2014 (in € billion) |      |      |       |       |       |       |
|---------------------------------|--|------|------|-------|-------|-------|-------|
| Segment                         | 2011   | 2012 | 2013 | 2014* | 2015* | 2016* | 2017* |
| Infrastructure-related services | 1.9  | 1.9  | 2.0  | 2.1   | 2.1   | 2.1   | 2.2   |
| Application-related services    | 1.4  | 1.4  | 1.5  | 1.6   | 1.6   | 1.7   | 1.7   |
| BPO                             | 0.2  | 0.2  | 0.2  | 0.2   | 0.3   | 0.3   | 0.3   |
| Total IT services               | 3.5  | 3.6  | 3.7  | 3.9   | 4.0   | 4.1   | 4.2   |

# Total IT services market growth rates by segment 2011-2014 (in %)

| Segment                         | 2012/11 | 2013/12 | 2014/13* | 2015/16* | 2016/17* | 2017/16* | CAGR |
|---------------------------------|---------|---------|----------|----------|----------|----------|------|
| Infrastructure-related services | 2.3%    | 2.7%    | 2.7%     | 2.4%     | 2.0%     | 1.6%     | 2.2% |
| Application-related services    | 4.3%    | 4.8%    | 4.4%     | 4.3%     | 3.8%     | 3.3%     | 4.0% |
| BPO                             | 6.6%    | 7.5%    | 7.9%     | 8.6%     | 8.7%     | 8.6%     | 8.5% |
| Total IT services               | 3.3%    | 3.8%    | 3.7%     | 3.6%     | 3.2%     | 2.8%     | 3.3% |

\*Estimated values Source: PAC 2013

#### Norway: Key IT Market Trends

Taking into account the results of the analysis of the Norwegian IT market, the strategy working group identified the following key trends:<sup>26</sup>

- The Norwegian software market grew by 4.7% in 2012, reaching a value of EUR 1.3 billion; in 2013, the software market reached a market value of EUR 1.4 billion.
- The performance of the market is forecasted to accelerate, with an anticipated CAGR of 4% for the five-year period 2012-2017.
- Efforts to better manage costs, improve IT infrastructure efficiencies and provide more intelligence for business operations drove new spending on application deployment and development tools (ADDT).
- In the IT services market segment, a considerable share of large outsourcing (IT and BPO) deals will come from both the public and the private sectors, where the energy and oil and gas industries in particular are performing very well.
- The overall IT Outsourcing market is expected to grow steadily between 3-4% per year until 2016.
- The software industry is a heavy user of outsourcing services.
- Top 3 drivers of outsourcing: shortage of domestic IT skills and resources, reducing operation costs, focus on core competences.
- The Norwegian IT industry is facing a severe skills shortage, particularly with regards to software developers.

#### 3.2.1.3. IT Market Analysis Netherlands

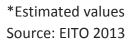
#### **Netherlands: ICT Market Overview**

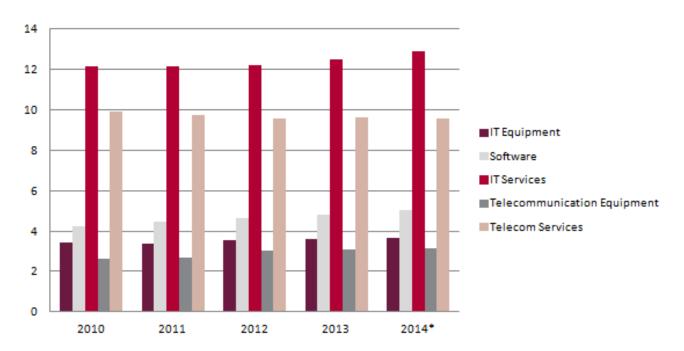
#### **Table 7: ICT Market Overview Netherlands**

|                                 | Total ICT market value by segment 2010-2014 (in € billion) |   |      |      |       |  |  |
|---------------------------------|--|---|------|------|-------|--|--|
| Segment                         | 2010   | 2011  | 2012 | 2013 | 2014* |  |  |
| IT Equipment                    | 3.4  | 3.4   | 3.6  | 3.6  | 3.7   |  |  |
| Software                        | 4.2  | 4.4   | 4.6  | 4.8  | 5.1   |  |  |
| IT Services                     | 12.2   | 12.1  | 12.2 | 12.5 | 12.9  |  |  |
| Telecommunications<br>Equipment | 2.6  | 2.7   | 3.0  | 3.1  | 3.2   |  |  |
| Telecom Services                | 9.9  | 9.7   | 9.6  | 9.6  | 9.6   |  |  |
| Total ICT                       | 32.3   | 32.4  | 33.0 | 33.5 | 34.3  |  |  |
|                                 |  | Total ICT market growth rates by segment 2011-2014 (in %) |      |      |       |  |  |

<sup>&</sup>lt;sup>26</sup> Sources: EITO 2013, PAC, Software in Norway, Marketline, Gartner, Pan-European IT Outsourcing Report, IT Sourcing Europe, Capgemini.

| Segment                      | 2011  | 2012  | 2013 | 2014* |
|------------------------------|-------|-------|------|-------|
| IT Equipment                 | -2.0% | 5.9%  | 0.3% | 2.5%  |
| Software                     | 4.8%  | 4.0%  | 4.4% | 4.9%  |
| IT Services                  | -0.1% | 0.3%  | 2.3% | 3.3%  |
| Telecommunications Equipment | 4.1%  | 12.5% | 0.3% | 3.3%  |
| Telecom Services             | -1.7% | -1.5% | 0.4% | -0.6% |
| Total ICT                    | 0.2%  | 1.9%  | 1.6% | 2.3%  |







Source: EITO 2013

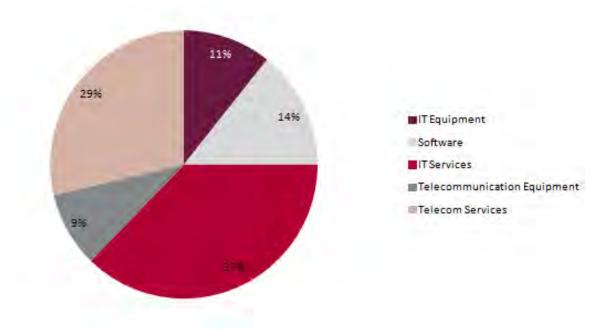


Figure 23: ICT market shares by segment (2013, in %)

Source: EITO 2013

## Netherlands: Software Market

## **Table 8: Software Market Netherlands**

|  | Total software market value by segment 2010-2014 (in € billion) |      |      |       |       |       |       |
|--|---|------|------|-------|-------|-------|-------|
| Segment                                | 2011  | 2012 | 2013 | 2014* | 2015* | 2016* | 2017* |
| Infrastructure<br>software & platforms | 1.0   | 1.0  | 1.0  | 1.0   | 1.0   | 1.1   | 1.1   |
| Application software products          | 2.0   | 2.0  | 2.0  | 2.1   | 2.2   | 2.2   | 2.3   |
| SaaS                                   | 0.1   | 0.1  | 0.1  | 0.2   | 0.2   | 0.2   | 0.3   |
| Total software                         | 3.1   | 3.1  | 3.1  | 3.2   | 3.4   | 3.5   | 3.6   |

# Total software market growth rates by segment 2011-2014 (in %)

| Segment                                | 2012/11 | 2013/12 | 2014/13* | 2015/16* | 2016/17* | 2017/16* | CAGR  |
|--|---------|---------|----------|----------|----------|----------|-------|
| Infrastructure<br>software & platforms | -1.8%   | 0.4%    | 2.9%     | 2.6%     | 2.1%     | 1.5%     | 2.3%  |
| Application software products          | -0.7%   | 1.4%    | 3.7%     | 3.7%     | 3.1%     | 2.4%     | 3.3%  |
| SaaS                                   | 25.2%   | 27.5%   | 25.6%    | 23.7%    | 21.9%    | 20.0%    | 22.8% |
| Total software                         | -0.4%   | 1.9%    | 4.3%     | 4.4%     | 3.9%     | 3.3%     | 4.0%  |

\*Estimated values Source: PAC 2013

## **Netherlands: IT Services Market**

| Table 9: IT Services Market Netherlands | able 9: IT Services Market Neth | erlands |
|---|---------------------------------|---------|
|---|---------------------------------|---------|

|                                 | Total IT services market value by segment 2010-2014 (in € billion) |             |            |             |             |             |        |
|---------------------------------|--|-------------|------------|-------------|-------------|-------------|--------|
| Segment                         | 2011   | 2012        | 2013       | 2014*       | 2015*       | 2016*       | 2017*  |
| Infrastructure-related services | 4.7  | 4.5         | 4.4        | 4.5         | 4.6         | 4.6         | 4.7    |
| Application-related services    | 3.3  | 3.2         | 3.1        | 3.2         | 3.3         | 3.5         | 3.5    |
| BPO                             | 0.6  | 0.6         | 0.6        | 0.6         | 0.7         | 0.7         | 0.7    |
| Total IT services               | 8.6  | 8.2         | 8.2        | 8.3         | 8.6         | 8.8         | 9.0    |
|                                 | Tota   | IT services | market gro | wth rates b | v segment : | 2011-2014 ( | ˈin %) |

|                                 | Total IT Services market growth rates by segment 2011-2014 (m //) |         |          |          |          | 111 <i>70 j</i> |      |
|---------------------------------|---|---------|----------|----------|----------|-----------------|------|
| Segment                         | 2012/11   | 2013/12 | 2014/13* | 2015/16* | 2016/17* | 2017/16*        | CAGR |
| Infrastructure-related services | -5.0%   | -1.1%   | 1.2%     | 1.8%     | 1.7%     | 1.6%            | 1.6% |
| Application-related services    | -5.4%   | -0.2%   | 2.5%     | 3.5%     | 3.3%     | 2.8%            | 3.0% |
| BPO                             | 0.1%  | 1.9%    | 4.5%     | 5.3%     | 5.5%     | 5.1%            | 5.1% |
| Total IT services               | -4.8%   | -0.5%   | 2.0%     | 2.7%     | 2.6%     | 2.3%            | 2.4% |

\*Estimated values Source: PAC 2013

## **Netherlands: Key IT Market Trends**

The following key trends for the Netherlands IT market have been identified by the members of the strategy working group within the framework of the external analysis:<sup>27</sup>

- Overall, the Netherlands ICT market stagnated in 2013 with the exception of the software and IT services market segments, which in comparison to 2012 grew by 4.4% and 2.3%, respectively.
- The Netherlands is the 3rd largest software market in Europe.
- Total spending in the software market has seen a stable growth, with a CAGR of 4% for the 2013-2017 time frame.
- Software as a Service (SaaS) has proved a major driver of the software market, with a CAGR of 22.8% for the 2013-2017 period.
- Enterprise Social Collaboration will continue to be a highly dynamic software market segment.
- There is a large market potential for software testing.

<sup>&</sup>lt;sup>27</sup> Sources: EITO 2013, ICT Market Monitor 2013, IDC, PAC, Gartner, Pan-European IT Outsourcing Intelligence Report, KPMG, IT Sourcing Europe.

- The IT Services market declined overall by 4.8% in 2012 and by 0.5% in 2013, but it started to slowly recover in 2014 and is projected to reach a CAGR of 2.4% for 2014-2017.
- There is increasing demand for private cloud solutions.
- After a decline in growth rates (2011-2012), Infrastructure and Applications Outsourcing return to moderate growth rates.
- The software industry is the most active market segment in terms of outsourcing.
- Application Management/Development are the two areas where outsourcing is most prevalent.
- Companies in the Netherlands plan to increase offshore, near-shore and onshore outsourcing contracting; at the same time, they also intend to return some aspects of service delivery in-house.
- The decision to outsource is in turn motivated by the following strategic goals: reducing operating costs, tackling the shortage of domestic IT skills and resources, focusing on core competences, accelerating time to market, and improving the overall business development strategy.
- There is a forecasted deficit of almost 10,000 ICT professionals for 2014 and 6,800 for 2017, due to a mismatch in demand and supply.

## 3.2.1.4. IT Market Analysis United Kingdom

#### **UK: ICT Market Overview**

|                                 | Total ICT market value by segment 2010-2014 (in € billion) |       |       |       | illion) |
|---------------------------------|--|-------|-------|-------|---------|
| Segment                         | 2010   | 2011  | 2012  | 2013  | 2014*   |
| IT Equipment                    | 12.0   | 11.5  | 11.7  | 11.6  | 11.8    |
| Software                        | 13.6   | 14.1  | 14.8  | 15.7  | 16.6    |
| IT Services                     | 46.0   | 46.5  | 45.9  | 46.6  | 48.1    |
| Telecommunications<br>Equipment | 12.9   | 13.7  | 15.9  | 16.5  | 17.1    |
| Telecom Services                | 36.0   | 36.5  | 36.8  | 37.2  | 37.5    |
| Total ICT                       | 120.5  | 122.2 | 125.1 | 127.5 | 131.1   |

## Table 10: ICT Market Overview UK

Total ICT market growth rates by segment 2011-2014 (in %)

| Segment      | 2011  | 2012 | 2013  | 2014* |
|--------------|-------|------|-------|-------|
| IT Equipment | -4.6% | 2.1% | -1.1% | 2.0%  |
| Software     | 3.3%  | 5.2% | 5.8%  | 5.6%  |

|                    | Total ICT market value by segment 2010-2014 (in € billion) |      |       |      |       |
|--------------------|--|------|-------|------|-------|
| Segment            | 2010   | 2011 | 2012  | 2013 | 2014* |
| IT Services        |  | 1.1% | -1.4% | 1.6% | 3.3%  |
| Telecommunications | Equipment  | 6.4% | 16.0% | 4.1% | 3.3%  |
| Telecom Servi      | ces  | 1.4% | 1.0%  | 0.9% | 1.0%  |
| Total ICT          |  | 1.4% | 2.4%  | 2.0% | 2.8%  |

\*Estimated values Source: EITO 2013

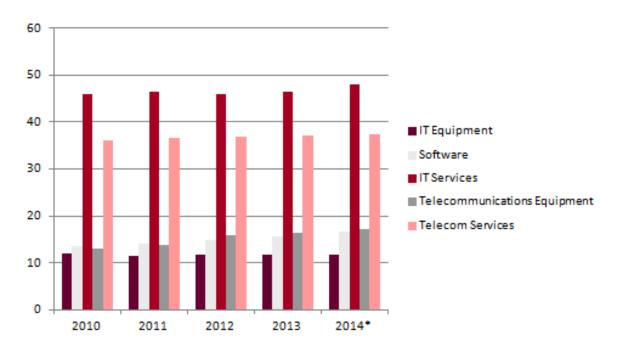


Figure 24: ICT market value by segment (in € billion) Source: EITO 2013

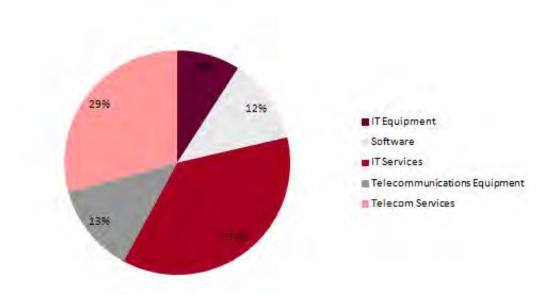


Figure 25: ICT market shares by segment (2013, in %) Source: EITO 2013

## **UK: Software Market**

#### Table 11: Software Market UK

|                                   | Total software market value by segment 2010-2014 (in € billion) |      |      |      |       |
|-----------------------------------|---|------|------|------|-------|
| Segment                           | 2010  | 2011 | 2012 | 2013 | 2014* |
| System Infrastructure<br>Software | 3.6   | 3.6  | 3.7  | 3.9  | 4.2   |
| Applications D&D                  | 3.2   | 3.4  | 3.6  | 3.8  | 4.1   |
| Applications                      | 6.8   | 7.1  | 7.5  | 7.9  | 8.3   |
| Total software                    | 13.6  | 14.1 | 14.8 | 15.7 | 16.6  |

Total software market growth rates by segment 2011-2014

|                                |       | (ir  | ו %) |       |
|--------------------------------|-------|------|------|-------|
| Segment                        | 2011  | 2012 | 2013 | 2014* |
| System Infrastructure Software | -0.2% | 4.6% | 5.6% | 5.3%  |
| Applications D&D               | 4.5%  | 5.2% | 6.6% | 7.0%  |
| Applications                   | 4.7%  | 5.5% | 5.5% | 5.0%  |
| Total software                 | 3.3%  | 5.2% | 5.8% | 5.6%  |

\*Estimated values Source: EITO 2013

#### **UK: IT Services Market**

#### Table 12: IT Services Market UK

|                            | Total IT services market value by segment 2010-2014 (in € billion) |      |      |      |       |
|----------------------------|--|------|------|------|-------|
| Segment                    | 2010   | 2011 | 2012 | 2013 | 2014* |
| Projects                   | 12.6   | 12.4 | 12.1 | 12.2 | 12.6  |
| Outsourcing (excl.<br>BPO) | 17.7   | 18.0 | 17.8 | 18.0 | 18.6  |
| Support & Deploy           | 6.3  | 6.2  | 6.1  | 6.1  | 6.2   |
| BPO Services               | 9.5  | 9.9  | 9.9  | 10.3 | 10.7  |
| Total IT services          | 46.0   | 46.5 | 45.9 | 46.6 | 48.1  |

|                         | Total IT services market growth rates by segment 202<br>2014 (in %) |       |      | ment 2011- |
|-------------------------|---|-------|------|------------|
| Segment                 | 2011  | 2012  | 2013 | 2014*      |
| Projects                | -0.9%   | -3.0% | 1.3% | 3.2%       |
| Outsourcing (excl. BPO) | 1.9%  | -1.2% | 1.0% | 3.4%       |
| Support & Deploy        | -2.0%   | -2.0% | 1.4% | 1.2%       |
| BPO Services            | 4.2%  | 0.8%  | 3.2% | 4.4%       |
| Total IT services       | 1.1%  | -1.4% | 1.6% | 3.3%       |

\*Estimated values Source: EITO 2013

#### **UK: Key IT Market Trends**

Based on the results of the analysis of the UK IT market, the following key market trends were identified by the strategy working group:

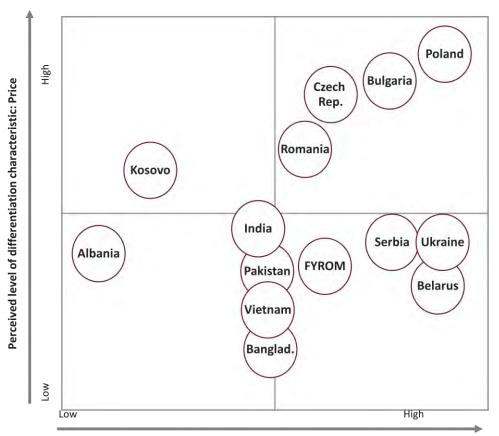
- The UK software market achieved a total market value of EUR 15.7 billion in 2013 and is projected to grow by 5.6% in 2014.
- The British software market is among the largest in Europe, exhibiting dynamic development in the areas of cloud solutions, mobility and digital business transformation.
- Application development and deployment are the fastest growing software market subsegments in the UK.
- Software solutions aimed at enhancing productivity or operational cost-effectiveness are in high demand.
- Growing recognition of the strategic importance of data will lead CIOs to continue to invest in big data applications, although on a comparatively small scale.

- The UK continues to lead Europe in terms of running core applications in the cloud, particularly in CRM.
- IT security and security software is a number-one priority for CIOs.
- The software industry is a heavy user of outsourcing/offshoring services.
- In 2013, the IT services market in the UK amounted to EUR 46.6 billion, making it the largest IT services market in Europe.
- After the IT services market recovered in 2013, spending on IT services is expected to see even stronger growth in 2014, reaching a projected total growth rate of 3.3%.
- The UK outsourcing market is highly competitive, which is putting pressure on vendor's margins.
- Global delivery has become a standard component of the majority of large IT Services projects in the UK private sector, and it is also increasingly being used in the public sector.
- In the outsourcing market segment there is a trend from dedicated development center and project-based models to more innovative business/engagement models, which are able to maximize managerial control over outsourced projects and enable more transparent pricing.
- The UK is among the most mature markets in Europe in terms of offshoring/nearshoring.

# 3.2.2. Competitive Analysis

The above mentioned figures and trends show that the selected target markets represent highly attractive export destinations, with substantial market and growth potential. Therefore, it does not come as a surprise that competitors from other regions and countries are also trying to penetrate these markets.

In order to better understand the competitive situation and strategically position the Kosovo IT industry, the working group also conducted a short analysis of existing and potential competitors. For the purpose of the competitive analysis, the strategy working group elaborated a positioning map based on the primary differentiation characteristics price and quality (figure 26):



Perceived level of differentiation characteristic: Quality

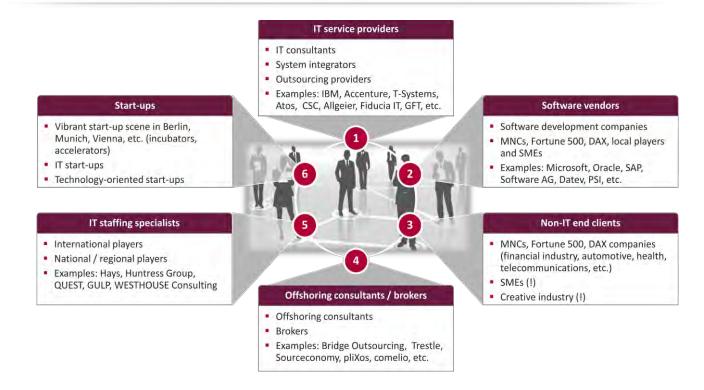
#### Figure 26: Positioning map with main competitors

The strategy working group also identified the specific strengths and weaknesses of the main competitors shown on the above positioning map:

| Competitors's strengths  | Competitor's weaknesses   |
|--|---|
| <ul> <li>Highly competitive prices and cost structures</li> <li>Economies of scale</li> <li>Political stability</li> <li>Good education system</li> <li>FDI</li> <li>Access to capital / financing</li> <li>Standardization</li> <li>Government incentives</li> <li>No travel restrictions (visa)</li> </ul> | <ul> <li>Lack of specific European language<br/>capabilities (e.g. German)</li> <li>Rising wages and prices</li> <li>Demographic factors</li> <li>Brain drain</li> <li>Geographic location (lack of Nearshoring<br/>factors)</li> </ul> |

#### 3.2.3. Customer Requirements & Key Success Factors

With regards to the selected target export markets, members of the strategy working group identified six main target groups and potential customer segments, described in the following chart:



## Figure 27: Target groups and potential customer segments

In addition to the above mentioned target groups, IT associations and clusters were identified as strategic cooperation partners and multipliers. In fact, STIKK has already established strategic cooperation with several IT associations and clusters, mostly in Germany, Austria and Norway.

In terms of offshoring/nearshoring, the main objectives of said target groups and potential customers include cost reduction, better access to resources and technical skills, greater flexibility, quality improvement, process optimization, innovation acceleration, and concentration on core competences. Another important driver for offshoring by German, Dutch, UK and Norwegian companies is the sharply increasing IT skills shortage in those countries.

Identifying specific customer requirements and key success factors is essential for achieving the strategic fit between the capabilities of the Kosovo IT industry and the demand structure of the target export markets. Based on the results of the export market analysis, the strategy working group has derived a number of these requirements and factors, which will be presented in the following table according to three competitive dimensions: marketing & positioning, quality & processes, and technology & capabilities:

## **Customer Requirements and Key Success Factors**

Dimension 1: Marketing & Positioning

- Creating a "national brand" (cluster of excellence)
- Having a comprehensive export marketing strategy
- International references
- Competitive and transparent pricing based on customer value
- Ability to communicate customer value and ROI (Return on investment) of nearshoring / offshoring effectively
- Using "project pilot" as door-opener
- Professional marketing and web presence

- Key account and customer relationship management
- Market segmentation and specialization by: company size (SMEs), technology, verticals, functional areas, business processes
- Integrating market and technology trends (e.g. digital transformation, cloud computing, IT security) effectively in the service portfolio
- Focus on specific offshoring services (e.g. software testing)
- Strategic partnerships, networks and alliances in the export target market (indirect market penetration)
- Communicating the nearshoring advantage effectively (combination of low-risk destination with cost advantages)

## Dimension 2: Quality & Processes

- Project management skills: continuous work tracking and reporting
- Knowledge of evaluation, selection and purchasing procedures
- Compliance with quality, deadlines and budget requirements
- Professional HR management (motivation, skills management) in order to minimize fluctuation
- University alliances and cooperation with academia: skill alignment and sustainable recruitment
- Comprehensive quality policy and customer orientation
- Quality management standards, methodologies and process models: CMMI, ISO, RUP, Agile Methods, SCRUM, Six Sigma, ITIL
- Agile methods (Scrum) for nearshoring (particularly relevant for smaller projects and for SME clients)
- Certification: QM, project management, process management, technologies
- Customer education (SMEs): how to use offshoring effectively by applying suitable models and processes; expectation handling concerning onsite delivery
- Compliance with international IT security management systems and standards (e.g. ISO/IEC 27001, ISO/IEC 15408)

## Dimension 3: Technology & Capabilities

- Ensuring continuing education and training
- Ability to support clients with evaluation, project preparation and requirement specification (e.g. with UML); technical documentation
- Building relevant technical capabilities, in particular Java, C/C++, C#, .Net, Python, ABAP4, HTML, PHP, TYPO3, SAP, Oracle, iOS.
- Measures to ensure security and data protection
- Combination of technology and business know-how ("hybrid capabilities")
- Vertical specialization and expertise
- Technical responsiveness and adaptability (e.g. OSS, mobile applications)
- Language skills and cross-cultural trainings (e.g. German language capabilities as an USP)
- Onsite delivery capabilities
- Integrated outsourcing services for SMEs: combination of IT consulting and outsourcing services with trainings and success-based fees and a local key account
- Ability to cover the whole software development cycle and to provide "turnkey solutions" (integrated service portfolio)

# 3.2.4. IT Macro Trends

Within the framework of the external analysis, the strategy working group identified several IT macro trends which will have a major impact on the future development of global IT industries and markets and are particularly relevant for the Kosovo IT industry. These IT macro trends include:

- Cloud computing
- Big data & analytics
- Mobile computing
- Social media
- Industry 4.0 (cyber-physical-systems, Internet of Things, embedded systems)
- IT security
- E-health
- E-energy

Due to their strategic importance for Kosovo's IT industry and economy, these IT macro trends have been addressed and reflected accordingly in the Kosovo IT Strategy (please refer to the operational plan).

# 4. IT Strategy Development

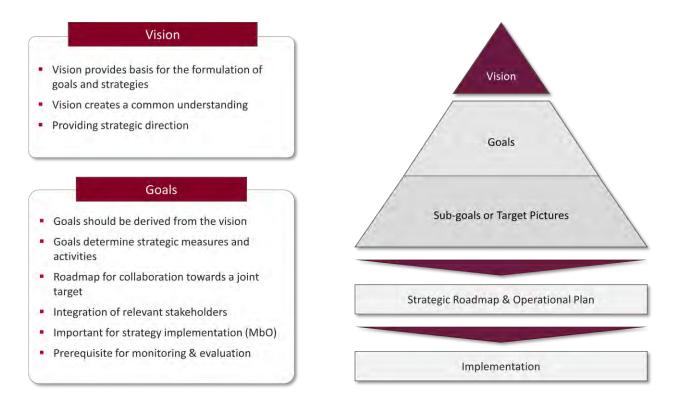
Following the collaborative methodology outlined in chapter 2, we will now turn to the actual development of the Kosovo IT Strategy. Based on the results of the internal and external analysis, the vision and goals of the strategy will be defined in a structured way, in sub-sections covering the generic, growth-related and market entry aspects of the strategy, respectively. Furthermore, this chapter outlines a set of concrete support measures aimed at promoting the Kosovo IT industry and tackling industry-specific problems and challenges, as identified by the preceding strategic analysis.

## 4.1. Vision

Defining a common vision is an important task within strategy development, especially within the context of joint cooperation on sector promotion strategies, where multiple stakeholders are involved.

A collaboratively developed stakeholder vision ensures ownership and identification with the strategy and its overall direction. In addition, it also plays an important role in creating a common understanding on the importance of the strategy and in motivating people to actively participate in strategy development and implementation. Lastly, such vision serves as a constructive basis for the formulation of goals and strategies.

The following diagram (figure 28) summarizes the function of a vision as well as the connection between vision and goals in the context of this strategy document:



#### Figure 28: Vision and goal system

The success stories of India, Estonia and Singapore impressively illustrate the importance of a national vision for effectively promoting the IT industry and digital transformation, whereby bundling initiatives and mobilizing institutional support have both proved instrumental.

With regards to the Kosovo IT Strategy, the working group has defined the following common vision:

Promoting digital transformation and supporting Kosovo in becoming a knowledge-based economy.

This vision is supposed to serve as an overall strategic guideline and roadmap for the promotion of the Kosovo IT industry. For this purpose, the vision has been operationalized into specific goals, strategies and measures, which will be presented in the following chapters.

# 4.2. Goal System

Defining a set of common goals is crucial for the success of IT strategy development, as these determine the general direction the industry will take. Furthermore, a goal system also defines the corresponding strategic measures and activities to support the IT industry. The goal-setting process is essential for integrating all relevant stakeholders and creating a common basis for collaboration. Hence, goals become the unifying element and compass for cooperation among different stakeholders on the macro-, meso-, and micro-level towards a joint objective.

Clearly defined goals are an imperative for the effective development and implementation of the Kosovo IT Strategy (Management by Objectives). They also constitute an important prerequisite for successful monitoring and evaluating of the strategy.

Based on the above mentioned vision, the methodology for collaborative strategy development and the results of the internal and external analysis, the working group has defined a goal system consisting of an overall goal and several operational sub-goals. The sub-goals were formulated according to different strategic topics or pillars.

According to the agile approach of the strategy, the working group elaborated a goal system for the Kosovo IT Strategy in several Sprints (iterations), which is presented in the following chart (figure 29):

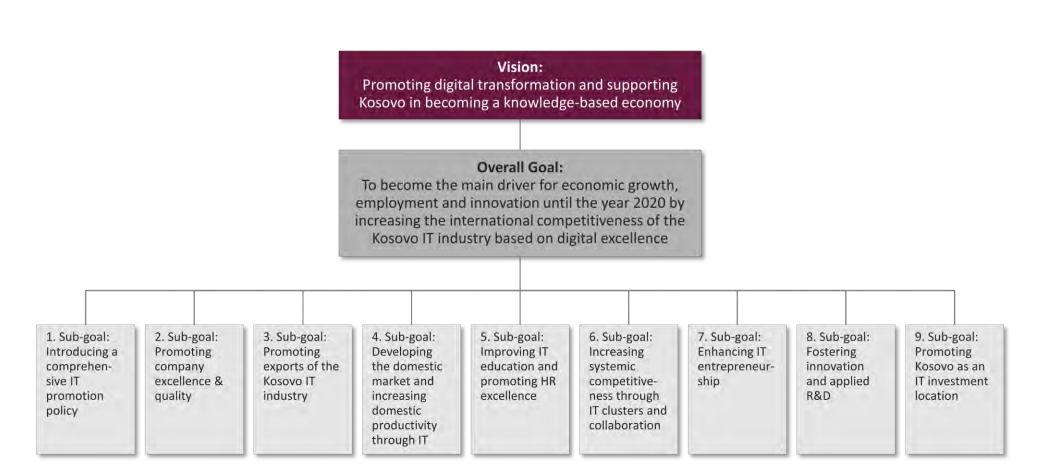


Figure 29: Goal system of the Kosovo IT strategy

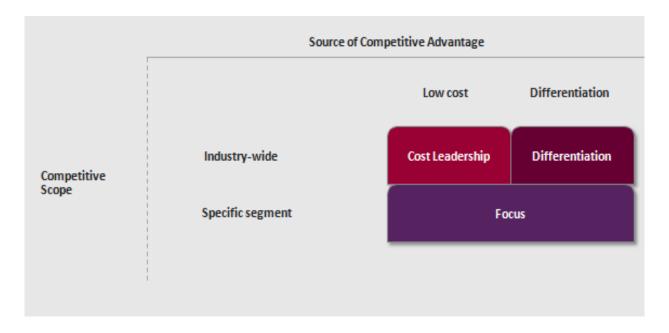
The above goal system in turn determines the generic strategy, the growth and portfolio strategy, the market entry strategy, as well as well the corresponding strategic pillars and support measures. For performance monitoring and evaluation of the Kosovo IT Strategy, indicators were defined with respect to each of the goals, which will be presented in chapter 6.

# 4.3. Generic Strategy

In the following section we will define a generic strategy for the Kosovo IT industry, which constitutes a key element of the overall Kosovo IT Strategy.

Based on the two main sources of competitive advantage (cost advantage, differentiation advantage) and the market scope (broad versus narrow market scope), Porter defined three generic strategies which are cost leadership, differentiation and focus.<sup>28</sup> Taking into account sharply intensifying competitive pressures in the global IT industry, the speed of digital transformation and the structural challenges of transformation countries like Kosovo, defining an appropriate generic strategy becomes a fundamental issue. The generic strategy is especially important for the branding and positioning of the Kosovo IT industry in target export markets but it is also relevant for the domestic market.

Before defining the generic strategy for the Kosovo IT industry, we will first describe and discuss the three generic strategy options shown in the following chart:



#### Figure 30: Porter's generic strategies

Source: Diagram based on Grant (2008): 219

<sup>&</sup>lt;sup>28</sup> Porter (1980).

## Generic strategy option 1: Cost leadership

#### Cost Leadership

- Provision of a product or service which is comparable to that of a competitor at a lower cost
- Based on: economies of scale, experience curve effects, cost minimization
- Companies from India, Vietnam and Russia have at least partly adopted cost leadership strategies
- Mostly applied in offshoring services
- The key to analyzing the possible sources of cost leadership is to identify the main cost drivers: economies of scale, economies of learning, production techniques, product design, input costs, capacity utilisation, residual efficiency
- Major cost driver in the software industry: labor costs

| Benefits (+)   | Concerns (-)  |
|--|---|
| <ul><li>Simple, straightforward option</li><li>Supports rapid market penetration</li></ul> | <ul> <li>Problems with sustainability and long-<br/>term effectiveness</li> </ul>                           |
| <ul> <li>Compatible with customer expectations/<br/>perceptions</li> </ul>                 | <ul> <li>Costs are important, but there are several<br/>other offshoring selection factors</li> </ul>       |
|  | <ul> <li>Cost advantages can quickly erode due to<br/>increasing labour costs and exchange rates</li> </ul> |
|  | <ul> <li>Decreasing profit margin &amp; low-quality<br/>image</li> </ul>                                    |

As a summary evaluation of the generic strategy option "cost leadership" one can state that due to the high volatility of global IT markets, national IT industries which pursue a pure cost leadership strategy and do not add value beyond simply being a low-cost offshoring destination, are likely to lose their clients and market shares to lower-cost destinations.

The long-term consequence of such a strategy for IT industries from transformation countries is the race to the bottom of the wage scale, with decreasing profit margins and the risks of a low-quality image.

## **Generic strategy option 2: Differentiation**

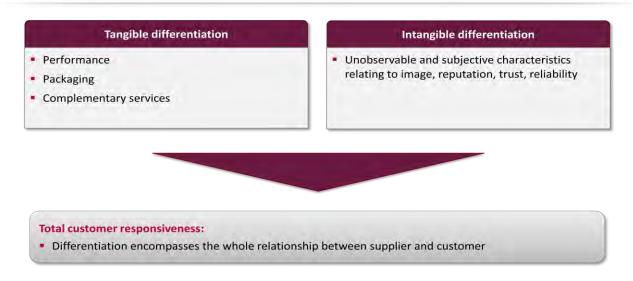
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|------|------|------|---------|
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- The differentiation strategy is aimed at the broader market and involves the creation of a product or a service that customers perceive as unique
- Goal of differentiation strategy: building customer loyalty and creating entry barriers to potential competitors
- Due to brand loyalty, demand is less price-elastic, leading to higher profit margins
- Technically complex products and services (like software) offer much greater scope for differentiation
- Differentiation is about understanding the interactions between an organisation and its customers and how these interactions can be designed to deliver additional customer value
- Due to rising labour costs, the Indian software industry started to introduce elements of a differentiation strategy (process quality, customer service)

| Benefits (+)   | Concerns (-)  |
|--|---|
| <ul> <li>Important strategy due to increasing competition and commoditisation in the global IT industry</li> <li>Allows for higher profit margins</li> <li>Creates sustainable competitive advantages</li> <li>More difficult to copy</li> </ul> | <ul> <li>Often not viable for small IT industries and<br/>SMEs due to substantial investments<br/>required by a differentiation strategy on a<br/>broad market scope</li> </ul> |

For the IT industry possible sources of differentiation include product and service features, complementary services (e.g. system analysis and testing), technology (e.g. OSS), employee skills, quality and maturity of software development processes, methodologies (e.g. agile methods), vertical (industry-specific) and horizontal (functional) expertise, marketing, branding and location. Moreover, innovation represents another important source of differentiation within the IT industry, creating customer value from novel technologies, product and process innovation or from bundling and software value chain integration.

Another important aspect of differentiation is the so-called intangible differentiation through unobservable and subjective characteristics relating to image, reputation, trust, reliability. This is particularly relevant in the area of software development and offshoring/nearshoring, where factors such as trust and reliability play a vital role in promoting business development and creating customer value.



## Figure 31: Tangible vs. Intangible differentiation

Given intensifying competition from new market entrants in Asia, Latin America and Eastern Europe, differentiation is becoming all the more important. Without differentiation software and IT services will become a commodity and prices will erode.

However, it deserves mentioning that differentiation on a broad market scope – for instance through massive marketing campaigns or onsite representative structures – seems to be a challenging strategy for small transformation countries such as Kosovo. Unlike their large-scale Indian competitors, Kosovo IT companies do not have the critical mass and resources to invest in expensive marketing campaigns or set up representative offices in target markets.

## **Generic strategy option 3: Focus**

| Focus  |  |
|--|--|
| <ul> <li>Concentration on a few selected target markets/niches</li> <li>Due to concentration: organisation knows the target customer group so well that it meets their needs better than their competitors</li> <li>Organisation can charge a substantial markup over costs because of the value added</li> <li>Several software exporting countries have adopted a focus strategy, concentrating on areas in which competition is less intense and in which they have a comparative advantage</li> <li>Examples: Philippines (data entry services), Ireland (specialized IT services), Israel (niche products)</li> <li>First mover as well as late entrant strategy</li> <li>To succeed in export markets, companies need to specialize in the same specific niches</li> </ul> |  |
| Benefits (+)   | Concerns (-)   |
| <ul> <li>Cluster effects through specialisation:<br/>facilitates national branding</li> <li>First mover advantages</li> <li>Higher profitability &amp; less competition</li> <li>Suitable for small-scale industries</li> <li>Important in view of increasing<br/>competition, industrialization and<br/>differentiation</li> </ul>  | <ul> <li>In-depth market and customer knowledge required</li> <li>Flexibility and adaptability required</li> <li>Professional marketing skills</li> <li>High level of coordination between IT sector stakeholders required</li> <li>Narrow scope (risk)</li> </ul> |

In the IT industry, companies can specialize and focus according to the following dimensions or niches:

- Vertical specialization according to specific industries (e.g. financial services, telecommunications, health)
- Functional niches such as accounting, logistics or marketing
- Technologies
- Target groups/segments (e.g. SMEs)
- Cultural and linguistic niches for languages such as French or German and specific regions (nearshoring).

In order to achieve synergy effects and reach a critical mass, IT companies need to specialize in the same specific niches. Through specialization the cluster effects of information diffusion can be enhanced and national branding efforts can be facilitated. Two good examples of this approach are Bulgaria and Israel. While Bulgaria specializes in providing high-quality software development services, Israel focuses on specific software products, particularly in the area of data communication and security.

Since the global IT industry is getting increasingly industrialized, fragmented and competitive, concentration and specialization becomes even more critical. Those national IT industries that have not specialized are less likely to succeed, since they cannot compete simultaneously on a broad market scope. This goes particularly for smaller transformation countries like Kosovo, which do not have a large domestic market at their disposal and possess only small-scale resources.

According to Porter cost leadership and differentiation strategies are mutually exclusive. Thus, an organization that attempts to pursue both is "stuck in the middle", resulting in low profitability and a conflicting set of organizational arrangements.<sup>29</sup>

In contrast, other researchers view the simultaneous pursuit of low costs and differentiation as a source of new market opportunities and a new value proposition.<sup>30</sup> Such scholars believe that pursuing both cost leadership and differentiation can under certain conditions lead to superior performance. In fact, several Japanese companies like Toyota have successfully combined cost leadership with high quality and innovation by applying new management techniques such as total quality management.

With regards to the IT industry, one could argue that the combination of cost leadership and differentiation (the so-called "outpacing strategy") could serve as a source for new competitive strategies and value propositions.

Based on the goal system, the results of the strategic analysis and the above considerations, the working group developed a specific generic strategy for the Kosovo IT industry, which could be described as **"agile focus strategy"**.<sup>31</sup>

While focussing on specific target markets and niches, this strategy combines differentiation with cost-efficiency within an agile framework. Thus, the generic strategy for the Kosovo IT industry is a so-called hybrid strategy, designed to successfully position Kosovo IT companies within their target markets, creating superior customer value and to outpace competitors.

<sup>&</sup>lt;sup>29</sup> Porter (1980), p. 42.

<sup>&</sup>lt;sup>30</sup> Chan and Mauborgne (2005).

<sup>&</sup>lt;sup>31</sup> The results of the Kosovo IT Industry Barometer 2014 have also been included in the formulation of the generic strategy.

The agile focus strategy directly reflects the strategic principles of market orientation & strategic fit, sustainability and agility outlined in chapter 2.1. In the following section, we will describe the key elements of the agile focus strategy for the Kosovo IT industry:

#### Agility:

The global IT industry is highly complex, competitive and dynamic, making agility and adaptability a critical success factor on the market. Consequently, agility and flexibility provide the Kosovo IT industry with first-mover advantages and serve as the basis for time-based competition. In fact, the ability of Kosovo IT SMEs to quickly adapt their capabilities and offerings to changing market conditions will help to at least partly offset the scale advantage of larger competitors such as India and Russia in target export markets.

By integrating the concept of agility into its generic strategy, the Kosovo IT industry will be able to translate some of it structural characteristics such as small company size and scale into competitive advantages. Being small and agile allows Kosovo IT companies to adapt faster to disruptive technology trends and to translate digital technologies into innovative business models.

Furthermore, the agile element of the generic strategy allows for accelerated implementation of the Kosovo IT Strategy and for generating dynamic competitive advantages. Moreover, agility is essential for effective management of innovation cycles and product life cycles.

Therefore, Kosovo's IT industry should pursue an agile focus strategy, which flexibly responds to the latest market and technology trends. This requires the establishment of dynamic capabilities among industry stakeholders and the ability to effectively screen and analyze markets and technologies (market intelligence). Furthermore, appropriate organizational structures (e.g. clusters) and processes need to be introduced in order to promote organizational learning and innovation.

#### Focus:

Given the comparatively small size and scale of the Kosovo IT industry, concentration on specific target markets and niches is a key element of the generic strategy. According to the results of the strategy workshops, the Kosovo IT industry will specialize and focus on five dimensions or niches.

Firstly, Kosovo IT exports will primarily be directed at specific target markets ("regional niche") including Germany, Norway, the Netherlands and the UK, where Kosovo can leverage its nearshoring advantages and its foreign language capabilities.

Secondly, concerning export target markets, strategic focus will be placed on the small and medium-sized market segment (SMEs), as this niche market is characterized by substantial backlog demand and a comparatively low level of international competitive pressures. In addition, the Kosovo IT industry will specifically address the start-up segment due to its market potential for nearshoring and software development. The choice of these target segments closely corresponds to the capabilities of Kosovo IT companies in terms of scale and resources.

Thirdly, Kosovo IT companies will specialize in specific industries (verticals). For export markets, these verticals include: IT/software, telecommunications, media, financial services, gaming & entertainment, retail and utilities. Vertical specialization on the domestic market encompasses the public sector, financial services, utilities, retail, health, tourism, telecommunications and education.

Fourthly, functional specialization (horizontals) needs to be increased. The strategy working group identified the following functional areas: custom software development, web development/web design, mobile applications and software testing. In the medium term, additional capabilities and functional areas need to be developed depending on market and technology trends (please also refer to chapter 4.4 Growth & Portfolio Strategy).

Lastly, Kosovo IT enterprises need to focus on specific technologies, reflecting the corresponding demand in target markets. According to the results of the strategic analysis (chapter 3), such technologies include Java, C/C++, C#, .Net, Python, ABAP4, JavaScript, HTML, XML, PHP, TYPO3, SQL, iOS, among others.

The working group identified several niches in order to balance the risk of focus strategies that a market niche may dry up or be attacked. By focusing on several niches the Kosovo IT industry will be able to effectively manage the risk while maximizing its business opportunities.

#### Differentiation:

In view of increasing competition and commoditization in the IT industry and the lack of international visibility and branding of the Kosovo IT industry, differentiation is an important element of the generic strategy. However, due to its very limited resource base, generic differentiation on a broad market scope is not a viable option for the Kosovo IT industry. Instead, the generic strategy will pursue an approach where differentiation is conducted within the target markets and niches defined above, with a view to establishing brand reputation and customer loyalty for Kosovo IT enterprises. Differentiation of the Kosovo IT industry on its target markets will be based on the following **differentiation factors**:

- Highly skilled IT experts
- Company excellence and quality
- Nearshoring aspects including language capabilities (e.g. German)
- Integrated services portfolio with complementary services such as software testing ("turnkey solution")
- Marketing & branding
- Innovation

Particularly relevant with regards to the differentiation factors are **quality and maturity** of software development processes. For IT industries from emerging countries like Kosovo, quality management is of paramount importance in terms of building trust among potential clients. As a matter of fact, trust plays a vital role in the IT business due to the complexity, intangibility and digital nature of IT. This is particularly the case in the area of offshoring / nearshoring software development to emerging countries, which is associated with an elevated level of uncertainty. Clients from Western Europe often express uncertainty and doubts about the reliability of IT companies from the Balkan region. This can be traced back mostly to the negative image of the region in terms of business environment, managerial competencies and reliability.

To mitigate these perceived risks, quality management and adherence to standards such as ISO or CMMI will send a clear message to potential international clients that Kosovo IT enterprises possess the capability to work according to clearly defined norms and procedures and submit themselves to global standards. Thus, quality management and certification become not only an important element of trust-building, but also a key differentiation factor, especially considering intangible differentiation through psychological factors relating to image, reputation, trust and reliability. In addition to that, company excellence and quality will also play an important role for the international branding and positioning of the Kosovo IT industry.

In order to create superior customer value and successfully differentiate the Kosovo IT industry from its competitors, the strategy will envisage a broad range of special support measures, including development of an innovative, integrated service portfolio, as well as fostering company excellence, training and quality certification. Besides, fostering holistic quality management systems will play an important role in strengthening the USP of the Kosovo IT industry.

For effective differentiation it is essential to understand the customer, its needs and requirements. Therefore, supporting market intelligence and customer analysis will form another important element within the measures envisaged in the Kosovo IT Strategy.

#### **Cost-efficiency:**

For the Kosovo IT industry a cost-leadership strategy is neither suitable nor sustainable. The wage level is already comparatively higher than in most East Asian offshoring destinations and is likely to further increase due to the limited pool of IT experts and the anticipated EU accession.

Furthermore, the dynamics of the software market make low cost strategies a highly risky approach.

As a matter of fact, low cost offers a much less secure basis for competitive advantage than differentiation. Besides, a cost-leadership strategy would have a detrimental effect on Kosovo's intended image and branding as a destination for specialized, high-quality software development services.

Considering increasing global competition in the sphere of outsourcing, especially given the market entrance of new competitors from East Asia and Latin America, the generic strategy needs to ensure that the Kosovo IT industry is associated with an excellent price-performance ratio and cost efficiency. This will be supported by investing in education and training, quality management and software process improvement. Creating economies of scale and scope through clusters will be another important measure.

For the purpose of penetrating specific target markets or market segments faster and more effectively, the Kosovo IT industry will apply penetration strategies or sequential hybrid strategies in selected markets. This could be done by providing IT services temporarily at comparatively lower prices than competitors. This, however, would require a thorough analysis of the respective target markets, price elasticity and competitors.

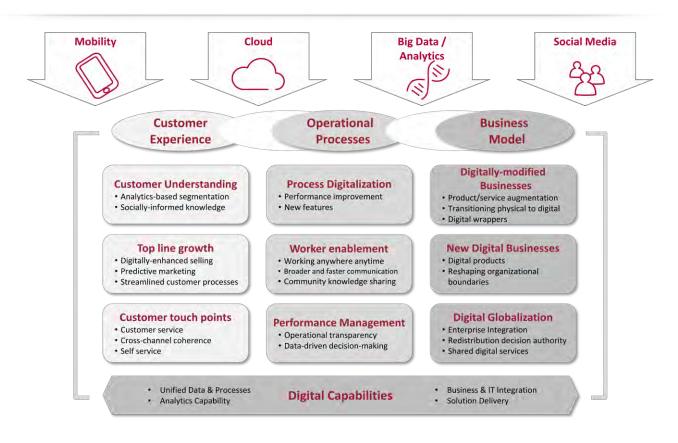
It deserves mentioning that the agile focus strategy for the Kosovo IT industry should not remain carved in stone but needs to be flexibly adapted to changing technology trends and market conditions over the course of time.

## 4.4. Growth & Portfolio Strategy

Based on the generic strategy of "Agile Focus", the working group elaborated the growth and portfolio strategy for the Kosovo IT industry in several iterations or Sprints.

As a starting point, members of the working group defined the product and service portfolio of the Kosovo IT industry by taking into account the results of the strategic analysis (internal and external analysis) and using special analytical frameworks and tools. These tools included the Digital Transformation Framework, Gartner's Hype Cycle and the Key Capability Matrix.

The following diagram (figure 32) illustrates the digital transformation framework for the Kosovo economy, supporting the development of innovative IT products and services, reflecting digital trends such as cloud computing or big data and analytics.



#### Figure 32: Digital transformation framework for the growth & portfolio strategy

Source: Capgemini

In the framework of several joint strategy workshops, the working group developed the following overall **core product and service portfolio** of the Kosovo IT industry:



#### Figure 33: Core product and service portfolio of the Kosovo IT industry

The above product and service portfolio directly reflects the key capabilities and core competences of the Kosovo IT industry, identified through the strategic analysis.

As a next step in defining its growth and portfolio strategy, the working group elaborated a Product-Market-Growth Matrix (also known as an "Ansoff-Matrix"), describing four alternative strategies for Kosovo IT enterprises to tap into new market opportunities:

- Market Penetration: Penetrating existing markets with existing products
- Market Development: Developing new markets for existing products
- Product Development: Developing new products for existing markets
- Diversification: Developing new products for new markets (horizontal, vertical, lateral)

The following Ansoff-Matrix summarizes the main results, as elaborated by the strategy working group, showing the different strategic growth options for the Kosovo IT industry in terms of markets and corresponding product/service portfolios:

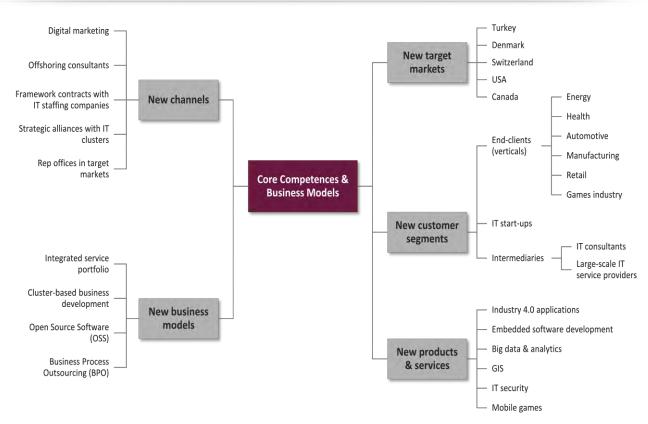


Products / Service Group (Portfolio)

#### Figure 34: Ansoff-Matrix

Following the principle of strategic fit and the aforementioned agile focus strategy, the working group defined a growth strategy for the Kosovo IT industry, which could be described as organic growth based on existing core business models and core competences.

The underlying idea is to begin by penetrating and developing strategic target markets and then progressively expand into new market and product segments, along existing core competences and business models. The key features of this growth strategy are illustrated in the growth strategy mind map below:



#### Figure 35: Growth strategy framework

As can be seen from the above chart, in the long run, additional growth in the Kosovo IT industry will be generated by developing new target markets, customer segments, products & services, business models and channels. The different branches of the growth strategy mind map represent the future growth paths for the Kosovo IT industry.

The basic idea behind this growth and portfolio strategy is to tap into additional business opportunities on a sustainable basis, without overstretching the capabilities and resources of the Kosovo IT industry. This will be achieved by focusing on existing core competences and business models, whilst gradually developing additional skills and capabilities. According to the agile approach, the growth strategy also needs to be regularly evaluated and, if necessary, repositioned.

## 4.5. Market Entry Strategy

Taking into account the key elements of the generic strategy of agile focus, the following section will now present the market entry strategy for the Kosovo IT industry. This market entry strategy is intended to serve as a strategic roadmap for entering the selected target export markets, analyzed in chapter 3.2.

With reference to the market entry strategy for the Kosovo IT industry, there are two central questions which need to be addressed. Firstly, whether Kosovo IT enterprises should enter target markets with IT products or services? Secondly, what are the different strategic market entry options?

Concerning the first question, it is important to carefully analyze the pros and cons of a product strategy versus a service strategy with regards to potential IT export markets:

| Product Strategy   |   |
|--|---|
| Benefits (+)   | Concerns (-)  |
| <ul> <li>Higher value added in the exporting country</li> <li>Greater potential for profitability</li> <li>Innovation: software products are still the major drivers of innovation</li> <li>Changing market patterns and delivery models due to cloud computing and SaaS concepts</li> <li>Potential for bundling with services</li> </ul> | <ul> <li>Highly complex and challenging</li> <li>Costs for product development</li> <li>Requires substantial investment in<br/>marketing and after-sales services</li> <li>High level of management and marketing<br/>skills required (in comparison to exporting<br/>IT services)</li> <li>Intense competition in software product<br/>markets</li> <li>Existing standards and legal aspects (IP)</li> <li>Higher risk due to investments involved</li> <li>Slower market penetration</li> </ul> |
| Practical  | Examples  |
| products such as communication application   | ategy, focusing on exporting specialized niche<br>s and information security software<br>abled to a large extent by the availability of VC  |

| • | But: the success of this strategy has been enabled to a large extent by the availability of VC |
|---|--|
|   | from the US and Israel's strong diaspora in key export markets                                 |

| Service Strategy   |  |  |
|--|--|--|
| Benefits (+)   | Concerns (-)   |  |
| <ul> <li>Easier market entry</li> <li>Less capital investment required</li> <li>Risk involved is considerably lower</li> <li>Less competitive pressure (for specialized<br/>IT services)</li> <li>Entry barriers are lower</li> <li>Usually suppliers do not have to establish a<br/>distribution network</li> </ul> | <ul> <li>Lower value added</li> <li>Less potential for innovation and R&amp;D</li> </ul> |  |
| Practical Examples   |  |  |
| <ul> <li>Most prominent example: India has successfully positioned itself in several export markets by<br/>providing IT services (outsourcing/offshoring)</li> </ul>   |  |  |
| <ul> <li>Indian companies originally started with sho shopping)</li> </ul>   | rt-term, low-level programming activities (body  |  |
| Later on, they gradually moved up the value  | chain by upgrading technical and managerial  |  |

 Later on, they gradually moved up the value chain by upgrading technical and managerial skills, as well as process maturity and quality

For highly developed target markets such as Germany, Norway, the Netherlands and the UK, a product-based entry strategy requires in-depth understanding of markets and clients, a complex skill set and, above all, significant investment in product development, marketing and sales.

The results of the internal analysis have shown that the majority of Kosovo IT firms have little export experience and possess rather limited endowments of physical and human capital. Moreover, important support elements for a product strategy, such as venture capital, established distribution networks or strong R&D and innovation capabilities currently do not exist in Kosovo.

Based on these considerations, the strategy working group drew the conclusion that a product strategy is currently beyond the capabilities of most Kosovo IT companies and would therefore be unrealistic. Hence, the Kosovo it industry will focus its market entry strategy primarily on the provision of IT services.

Accordingly, the Kosovo IT industry will enter the selected target markets with the service portfolio defined in the previous chapter (see chapter 4.4). Special emphasis will be placed on the provision of high-end and high-quality software development services and related IT services that require excellent technical expertise as well as project management skills. In this context, the specific key capabilities of Kosovo IT companies in the areas of web design and mobile applications should be leveraged. Hence, IT firms will have to develop deep domain expertise and further develop their software engineering and IT project management capabilities. In addition, they could complement software development and testing with design and IT consulting services in order to provide integrated service portfolios to their clients. That way, Kosovo IT companies will be able to execute complex IT projects for their clients along the entire software project cycle – from system analysis to software development, testing and deployment.

Specializing in high-end software development and IT services will help reduce exposure to market volatility, as demand for such services s is less price-elastic and competitive pressure is lower compared to other IT service segments.

Notwithstanding, in the medium and long term, the Kosovo IT industry should not pursue a pure service strategy but should also try to develop and market specialized niche software products in target export markets. In this context, ICK and Kosovo start-ups could play a decisive role in developing innovative software products, especially in the mobile sphere.

While keeping the focus on services, promoting exports of software products could help increase the value added and create a basis for product-related services (e.g. IT consulting support services). As a matter of fact, bundling IT services with innovative products might be an attractive future option for Kosovo's IT industry.

Concerning the second question, the working group identified five different strategic market entry options for the Kosovo IT industry, taking into consideration the results of the internal analysis, as well as the structural characteristics of the selected target export markets:

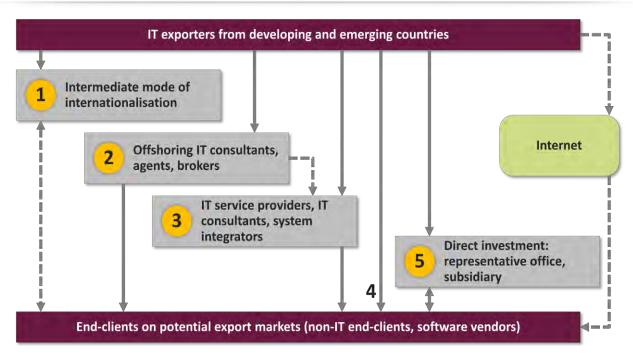


Figure 36: The five different export market entry options for the Kosovo IT industry

The above shown entry options are closely related to the target groups identified in the market analysis (chapter 3.2.3).

In order to formulate a suitable market entry strategy for the Kosovo IT industry, different options will be presented and discussed in the following section, including the corresponding benefits and concerns.

| Option 1: Intermediate mode of internationalization <sup>32</sup>  |   |  |  |
|--|---|--|--|
| <ul> <li>Channelling a company's services or product<br/>home market</li> </ul>  | endimening a company s services of products through an existing mathational eleft in the  |  |  |
|  | <ul> <li>Examples: for many SMEs in Ireland and India, doing business with MNCs in the domestic<br/>market was the first step in entering international markets</li> </ul>  |  |  |
| <ul> <li>Also several examples from Macedonia (e.g.</li> </ul>   | Ein-Sof) and Bulgaria   |  |  |
| <ul> <li>Through referrals by international clients in the domestic market, companies get access to<br/>new clients in export markets</li> </ul>   |   |  |  |
| <ul> <li>Strategic linkages with MNCs also provide local companies with access to the latest<br/>technologies</li> </ul>   |   |  |  |
| <ul> <li>Increasing FDI could create business opportu<br/>of indirect internationalization (intermediate</li> </ul>  | inities for Kosovo software companies in terms<br>mode of internationalization)   |  |  |
| Benefits (+)   | Concerns (-)  |  |  |
| <ul> <li>Indirect access to foreign markets without<br/>overstretching resources</li> <li>Gaining international reference clients</li> <li>Access to latest technologies and<br/>management methods</li> <li>Leveraging MNCs' assets, scale and</li> </ul> | <ul> <li>High transaction costs</li> <li>Lack of information on markets and end-<br/>clients (information asymmetries)</li> <li>Dependency on MNCs</li> <li>Discourages development of own export<br/>capabilities</li> </ul> |  |  |

<sup>&</sup>lt;sup>32</sup> In the academic literature this option is also often referred to as "client followership".

| Option 2 and 3: Inc  | direct market entry   |
|--|---|
| <ul> <li>Companies use an intermediary/distributor to enter the marketThe intermediaries could be:<br/>specialized offshoring consultants (brokers, agents), IT service providers, IT staffing<br/>companies and IT consultants</li> </ul>   |   |
| <ul> <li>Trend towards integrating offshoring elements into IT services, coupled with increasing<br/>specialization within the IT service value chain, provide additional opportunities for<br/>cooperation between IT service companies and offshoring providers from Kosovo</li> </ul>   |   |
| Benefits (+)   | Concerns (-)  |
| <ul> <li>Less investment required</li> <li>Less risk since intermediaries provide indepth customer and market know-how</li> <li>Using business contacts and networks of intermediary for business development</li> <li>Forming strategic alliances</li> <li>Intermediaries can be used as multipliers</li> <li>Mitigates lack of branding</li> </ul> | <ul> <li>Limited control over export activities and customer contacts</li> <li>Reduced profit margin due to intermediation and commission schemes</li> <li>Hampers development of export and market know-how</li> </ul> |

## **Option 4: Direct export**

- Direct exports from Kosovo software companies to end-clients in the export market (non-IT end-clients, software companies)
- Direct sales without involvement of intermediaries
- Focus on SME segment since access to large-scale end-clients is rather unlikely
- There are several examples of companies from Kosovo and the region conducting direct exports

| Benefits (+)   | Concerns (-)   |  |
|--|--|--|
| <ul> <li>Higher profitability</li> <li>Learning effect from direct interaction with clients</li> <li>Direct and efficient communication with end-clients</li> <li>Full control of export activities</li> </ul> | <ul> <li>High degree of technical and managerial skills required</li> <li>Substantial investments into marketing and sales</li> <li>High degree of specialization required</li> <li>Clients often expect local presence</li> </ul> |  |

| Option 5: Direct invest   | tment / local presence   |
|---|--|
| <ul> <li>Establishing a local presence in the target market through direct investment</li> <li>Forms: joint venture, local partner, setting up a wholly owned subsidiary (representative office, fully integrated unit)</li> <li>Results of the external analysis: customer preference for local presence and onsite delivery capabilities. Therefore setting up a representative structure in the target market could be a useful step for a sustainable market entry</li> </ul> |  |
| Benefits (+)  | Concerns (-)   |
| <ul> <li>Competitive advantage</li> <li>Creating additional customer value</li> <li>Better understanding of target markets<br/>and clients</li> <li>Higher customer focus and closer customer<br/>relations</li> <li>Better control over marketing activities<br/>and channels</li> <li>Sustainable market penetration</li> <li>Important for branding and positioning on<br/>target markets</li> </ul>   | <ul> <li>Involves significant capital investment and resource allocation</li> <li>Comparatively high operational costs of local presence (office, local staff, etc.)</li> <li>Slower market penetration</li> </ul> |

Even though the internet is shown on the above chart with the market entry options, it should be noted that it does not provide a market entry option as such. As software development is highly complex and numerous factors affect decision-making on nearshoring/offshoring (e.g. skills, quality, price, etc.), a purely "digital" market entry is highly unlikely.

However, it deserves mentioning that digital marketing is becoming increasingly important in the software and nearshoring market with regards to branding and business development. Therefore, the Kosovo IT Strategy also envisages special measures in the area of web-marketing, social media marketing, social CRM as well as IT job exchanges and special outsourcing portals.

Since the selection of the most appropriate market entry option will finally have to be made on the micro-level by the individual companies, it is relatively difficult to define a common market entry strategy for the whole Kosovo IT industry. Kosovo IT companies will not have to stick to a single entry mode, but can combine several entry options, depending on their objectives, business model, product/service portfolio, export experience, resources and of course the structural characteristics and requirements of the target market.

Although the decision for the most appropriate market entry option on the micro-level will have to be taken by the individual enterprises, the working group developed a general market entry strategy for the Kosovo IT industry, which is supposed to serve as an overall guideline for entering strategic target markets on the industry level. Reflecting the generic strategy of agile focus and the above considerations, this market entry strategy for the Kosovo IT industry comprises four key elements, outlined in the following table:

| Key element 1: Focused market entry  | Key element 2: Cluster-based market entry   |
|--|---|
| <ul> <li>Entering selected target market entry</li> <li>Entering selected target markets with specific service portfolio (see chapter 4.4) focusing on the provision of high-quality software development services and related IT services</li> <li>Leveraging specific key capabilities of Kosovo IT companies in the areas of web design and mobile applications</li> <li>Specialization and customization of IT services</li> <li>Entering the target markets by focusing on specific industries (e.g. financial services, retail, health, energy, automotive, telecommunications, IT ) and target segments (SMEs, IT start-ups)</li> <li>Promoting international branding and positioning of the Kosovo IT industry</li> </ul> | <ul> <li>Clustering companies according to<br/>capabilities and service portfolios in order to<br/>facilitate targeted market entry</li> <li>Developing and marketing an integrated<br/>service portfolio consisting of<br/>complementary services to provide<br/>customers with a "turnkey solution"<br/>covering the complete software project<br/>cycle from system analysis to software<br/>development, testing and deployment</li> <li>Generating synergy effects, economies of<br/>scale and scope</li> <li>Providing cluster-based export promotion<br/>services for Kosovo IT companies through<br/>STIKK</li> <li>Establishment of joint representative<br/>structures in strategic target markets</li> <li>Using IT clusters and associations in target</li> </ul> |
|  |   |
| Key element 2: Sequential market entry   | markets as strategic partners and multiplier<br>Key element 4: Penetration strategy   |
| <ul> <li>Key element 2: Sequential market entry</li> <li>Sequential hybrid strategy combining<br/>elements of cost-leadership with<br/>differentiation (outpacing) over the course<br/>of time</li> <li>Due to high costs and complexity of market<br/>entry: initial market entry through<br/>specialized offshoring consultants, IT service<br/>providers, IT staffing companies and IT<br/>consultants</li> <li>In parallel: generating international<br/>references on the domestic market through<br/>intermediate mode of internationalization</li> <li>After initial stage: gradually establishing<br/>direct export activities</li> <li>Ultimate step: local presence in the market</li> </ul>                             | markets as strategic partners and multiplier  |

In the context of the market entry strategy, the Kosovo IT industry will also have to elaborate a branding concept. The importance of branding for the Kosovo IT industry can be attributed to the following facts:

- Lack of branding has been identified as a primary obstacle to Kosovo IT export
- Positioning in domestic as well as international markets
- Selection of potential business partners (outsourcing/offshoring) is often based on image and reputation of a country and its IT industry ("country branding")
- Successful brand enables IT companies to build stable, long-term customer relationship and demand
- Increasing the visibility on international markets
- Branding is an important source for differentiation
- Generating competitive advantages and increasing margins and profitability

Basis for expansion into product/service improvements, new lines and categories

Taking into account the importance of branding for the Kosovo IT industry, the strategy working group has envisaged corresponding support measures in the operational plan (see chapter 5).

The branding concept for the Kosovo IT industry will have to be based on clearly defined core brand values. These values need to reflect the overall goal as well as the generic and market entry strategy. Thus, the branding goal will be based on quality, company excellence, agility and cost-efficiency.

The goal of the market entry strategy outlined above is to enable the Kosovo IT industry to access selected target markets based on a sustainable organic growth, without overstretching the capabilities and resources of Kosovo IT enterprises.

In general, the market entry strategy should be a dynamic process, staying abreast of changes in global IT markets.

## 4.6. Strategic Measures and Pillars

To achieve the overall goal of transforming the IT industry into the main driver of economic growth, employment and innovation in Kosovo, the working group defined a broad range of strategic measures.

These measures reflect the generic strategy for the Kosovo IT industry, as well as the growth and market entry strategy outlined in the previous chapters. They are based on the principle of systemic competitiveness, encompassing specific tasks and activities on the macro-, meso-, and micro-levels. It is important to stress that many of these strategic measures are interrelated and need to be coordinated and implemented in close collaboration with all relevant stakeholders.

For the purpose of effective coordination and implementation, the different measures have been organized in **9 strategic pillars** according to sub-goals (see chapter 4.2) and strategic topics. These pillars form an integrated portfolio of support measures for the Kosovo IT industry, which can be quickly adapted to changing market conditions and needs.

The following **strategy map** provides an overview of the strategic pillars and the corresponding measures respectively tasks:

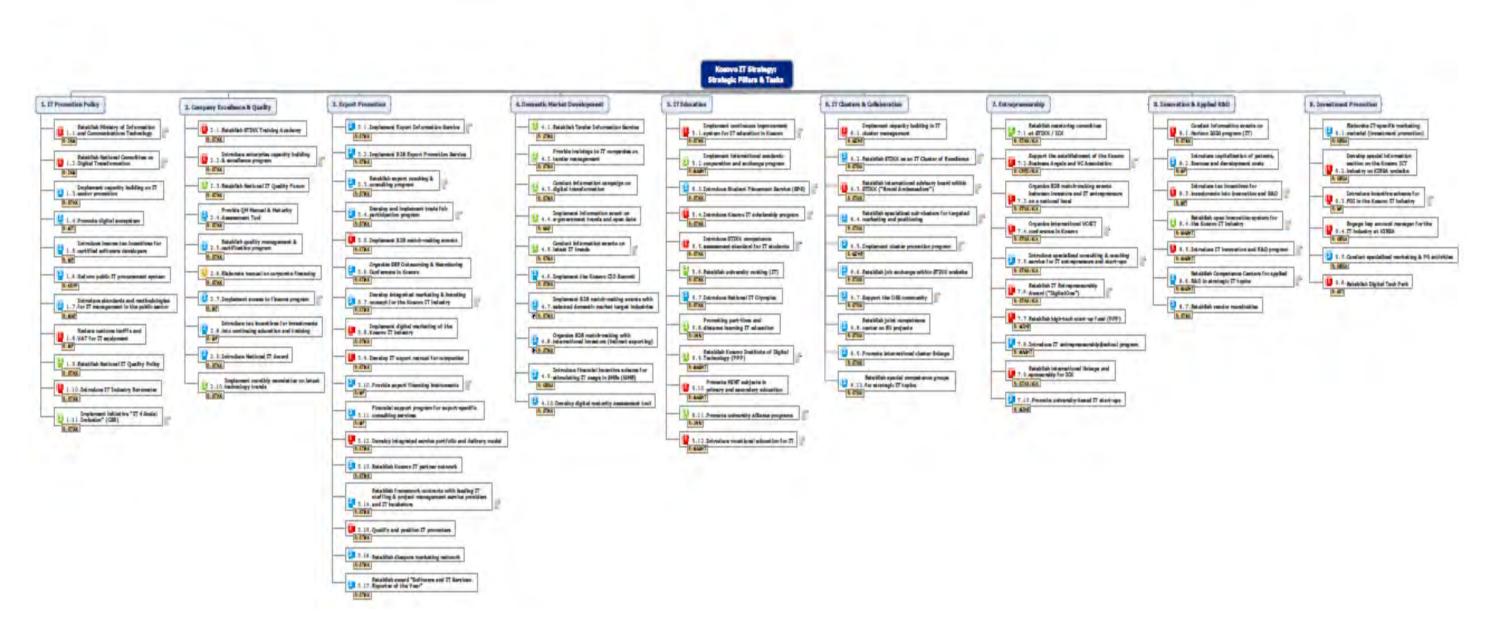


Figure 37: Strategy map with strategic pillars and tasks of the Kosovo IT Strategy

In this chapter, we will briefly present the 9 strategic pillars, as well as the corresponding goals, rationale and strategic measures or tasks. A more detailed description and operationalization of the individual strategic measures/tasks will be conducted in chapter 5 within the operational plan.

#### 4.6.1. Strategic Pillar 1: IT Promotion Policy

| Goal:        | Introducing a comprehensive IT promotion policy  |
|--------------|--|
| Rationale:   | In order to promote the IT industry and digital transformation in Kosovo, the necessary framework conditions need to be established. Therefore, this strategic pillar is directed at creating a digital ecosystem conducive to IT sector growth and entrepreneurship. Policy measures need to take into account that the Kosovo IT industry consists almost exclusively of small and medium-sized enterprises. Contrary to the traditional, reactive top-down policy-setting process, government institutions need to engage in proactive policy formulation, in close collaboration and interaction with the IT industry.   |
| Description: | <ul> <li>Establishing the necessary framework conditions for effective IT sector promotion in Kosovo</li> <li>Introducing a comprehensive IT policy</li> <li>Establishing an environment conducive to entrepreneurship and IT sector growth</li> <li>Increasing awareness about the strategic importance of the Kosovo IT industry</li> <li>Enhancing the visibility of the Kosovo IT industry in economic policy</li> <li>Building the necessary organizational structures and capabilities for IT sector promotion</li> <li>Introducing a quality policy</li> </ul>  |
| Tasks        | <ul> <li>1.1 Establish Ministry of Information and Communication Technology</li> <li>1.2 Establish National Committee on Digital Transformation</li> <li>1.3 Implement capacity building on IT sector promotion</li> <li>1.4 Promote digital ecosystem</li> <li>1.5 Introduce income tax incentives for certified software developers</li> <li>1.6 Reform public IT procurement system</li> <li>1.7 Introduce standards and methodologies for IT management in the public sector</li> <li>1.8 Reduce customs tariffs and VAT for IT equipment</li> <li>1.9 Establish national IT Quality Policy</li> <li>1.10 Introduce IT Idustry Barometer</li> <li>1.11 Implement initiative "IT 4 Social Inclusion" (CSR)</li> </ul> |

# 4.6.2. Strategic Pillar 2: Company Excellence & Quality

| Strategic Pilla | r 2: Company Excellence & Quality   |
|-----------------|---|
| Goal:           | Promoting company excellence & quality  |
| Rationale:      | Quality and company excellence are key differentiation factors for the Kosovo IT industry and have a major impact on its international competitiveness. For IT industries from emerging countries like Kosovo, quality management is of paramount importance in terms of promoting client trust. Quality certifications like ISO and CMMI send a strong message to potential foreign customers that IT companies will work according to clearly defined norms and procedures and will adhere to global standards. |
|                 | Considering the fact that the current wage level within the Kosovo IT industry is<br>comparatively higher than those in many Asian offshoring destinations and is likely<br>to further increase during Kosovo's accession process to the EU, the future<br>international competitiveness of the Kosovo IT industry will very much depend on<br>quality and efficiency. Hence, for Kosovo, quality becomes an important source of<br>differentiation, as reflected in the goal system of this strategy.            |
|                 | In addition, company excellence and quality will also play an important role in the international branding and positioning of the Kosovo IT industry. Promoting company excellence and quality requires massive investments in qualification, training and certification according to international standards and methodologies.  |
| Description:    | <ul> <li>Increasing the international competitiveness of Kosovo IT companies</li> </ul>   |
|                 | <ul> <li>Introducing a mindset and infrastructure conducive to continuous learning<br/>and qualification</li> </ul>   |
|                 | <ul> <li>Promoting technical expertise and skills development</li> </ul>  |
|                 | <ul> <li>Introducing the latest management methods and know-how</li> <li>Promoting quality and company excellence</li> </ul>  |
|                 | <ul> <li>Promoting quality and company excellence</li> <li>Establishing a "quality culture"</li> </ul>  |
|                 | <ul> <li>Improving access to finance</li> </ul>   |
| Tasks           | 2.1 Establish STIKK Training Academy  |
|                 | 2.2 Introduce Enterprise Capacity Building & Excellence program   |
|                 | 2.3 Establish National IT Quality Forum   |
|                 | 2.4 Provide QM Manual & Maturity Assessment Tool  |
|                 | 2.5 Establish Quality Management & Certification program  |
|                 | 2.6 Elaborate manual on corporate financing   |
|                 | 2.7 Implement access to finance program   |
|                 | 2.8 Introduce tax incentives for investments into continuing education and training   |
|                 | 2.9 Introduce National IT Award   |
|                 | 2.10 Compile monthly newsletter on latest technology trends   |
|                 |   |

# 4.6.3. Strategic Pillar 3: Export Promotion

| Goal:        | Promoting exports of the Kosovo IT industry  |
|--------------|--|
| Rationale:   | Due to Kosovo's very limited and underdeveloped domestic market, export<br>promotion is of paramount importance for the development and growth of the<br>country's IT industry. Activities need to be focused on selected target export<br>markets.<br>Lack of branding and international visibility has been identified by companies and<br>public stakeholders as one of the primary obstacles to Kosovo IT exports.<br>Therefore, a comprehensive marketing & branding concept for the Kosovo IT<br>industry is needed, reflecting specific client requirements and key success factors<br>in the strategic export markets. Furthermore, the specific needs of IT SMEs in<br>terms of export promotion need to be taken into consideration, whilst<br>strengthening their export capabilities.  |
| Description: | <ul> <li>Opening up new markets and business opportunities for the Kosovo IT industry</li> <li>Increasing export revenues</li> <li>Establishing a national IT brand</li> <li>Positioning Kosovo on international markets</li> <li>Increasing the international visibility of the Kosovo IT industry</li> <li>Providing export-oriented support services for Kosovo IT companies</li> <li>Developing new product and service portfolios</li> <li>Developing innovative nearshoring marketing and delivery models</li> </ul>   |
| Tasks        | <ul> <li>3.1 Implement Export Information Service</li> <li>3.2 Implement B2B Export Promotion Service</li> <li>3.3 Set up export coaching &amp; consulting program</li> <li>3.4 Develop and implement trade fair participation program</li> <li>3.5 Organize B2B match-making events</li> <li>3.6 Organize SEE IT Outsourcing and Nearshoring Conference in Kosovo</li> <li>3.7 Develop integrated marketing &amp; branding concept for the Kosovo IT industry</li> <li>3.8 Implement digital marketing of the Kosovo IT industry</li> <li>3.9 Develop IT export manual for companies</li> <li>3.10 Provide export financing instruments</li> <li>3.11 Financial support program for export-specific consulting services</li> <li>3.12 Develop integrated service portfolio and delivery model</li> <li>3.13 Establish Kosovo IT partner framework</li> <li>3.14 Establish framework contracts with leading IT staffing &amp; project management service providers and IT incubators</li> <li>3.15 Quality and position IT promoters</li> <li>3.16 Establish diaspora marketing network</li> <li>3.17 Establish award "Software and IT Services Exporter of the Year"</li> </ul> |

# 4.6.4. Strategic Pillar 4: Domestic Market Development

| Goal:        | Developing the domestic market and increasing productivity through IT.   |
|--------------|--|
| Rationale:   | The rationale behind this strategic pillar is to opening up the growth potential of the domestic market (in selected target industries) to Kosovo IT companies, thus creating an additional source of income and revenue streams.                                |
|              | At the same time, this pillar intends to provide companies from other industries with innovative IT products and services, in order to improve their efficiency and productivity.  |
|              | Another important aspect of domestic market development is to create additional business opportunities for the Kosovo IT industry by establishing linkages between local IT enterprises and international investors/multinational corporations (MNCs) in Kosovo. |
| Description: | <ul> <li>Opening up additional business opportunities for Kosovo IT companies in the domestic market</li> </ul>  |
|              | <ul> <li>Maximizing revenue streams from the domestic market</li> </ul>  |
|              | <ul> <li>Conducting customer development and education (pull strategy)</li> </ul>  |
|              | <ul> <li>Aggressively marketing the capabilities and the service portfolio of Kosovo IT companies in the domestic market (push strategy)</li> </ul>  |
|              | <ul> <li>Establishing strategic industry accounts</li> </ul>   |
|              | <ul> <li>Opening up the market potential of foreign investors (FDI) and their<br/>subsidiaries in Kosovo (intermediate mode of internationalization)</li> </ul>  |
| Tasks        | 4.1 Establish Tender Information Service   |
|              | 4.2 Provide trainings to IT companies on tender management   |
|              | 4.3 Conduct information campaign on digital transformation   |
|              | 4.4 Implement information event on e-government trends and open data   |
|              | 4.5 Conduct information events on latest IT trends   |
|              | 4.6 Implement the Kosovo CIO Summit  |
|              | 4.7 Implement B2B match-making events with selected domestic market target industries  |
|              | 4.8 Organize B2B match-making with international investors (indirect exporting)  |
|              | <ul><li>4.9 Introduce financial incentive scheme for stimulating IT usage in SMEs (iSME)</li><li>4.10 Develop digital maturity assessment tool</li></ul>   |

# 4.6.5. Strategic Pillar 5: IT Education

| Strategic Pilla | r 5: IT Education   |
|-----------------|---|
| Goal:           | Improving IT education and promoting HR excellence in Kosovo  |
| Rationale:      | Education and human resource excellence are the key determinants of Kosovo's IT industry competitiveness. Consequently, this pillar is directed at promoting education and human resources excellence by continuously improving IT education in Kosovo on the primary, secondary and particularly on the tertiary level.  |
|                 | Special emphasis needs to be placed on aligning IT curricula with the specific needs of the private sector and with fostering close cooperation between the universities and the IT industry. With regards to shortening innovation cycles in the IT industry, the concept of life-long learning and qualification is of particular relevance.  |
| Description:    | <ul> <li>Improving IT education in Kosovo</li> <li>Improving the qualitative and quantitative output of universities in Kosovo</li> <li>Aligning IT curricula with the specific needs of the private sector</li> <li>Fostering international academic cooperation and exchange programs</li> <li>Improving cooperation between the universities and the IT industry</li> <li>Increasing the job attractiveness of the IT industry</li> <li>Promoting HR excellence in the Kosovo IT industry</li> </ul>   |
| Tasks           | <ul> <li>5.1 Implement continuous improvement system for IT education in Kosovo</li> <li>5.2 Implement international academic cooperation and exchange program</li> <li>5.3 Introduce Student Placement Service (SPC)</li> <li>5.4 Introduce Kosovo IT Scholarship program</li> <li>5.5 Introduce STIKK Competence Assessment Standard for IT students</li> <li>5.6 Create university ranking (IT)</li> <li>5.7 Introduce national IT Olympiads</li> <li>5.8 Promote part-time and distance learning in IT education</li> <li>5.9 Establish Kosovo Institute of Digital Technology (PPP)</li> <li>5.10 Promote MINT subjects in primary and secondary education</li> <li>5.11 Promote university alliance programs</li> <li>5.12 Introduce vocational education for IT</li> </ul> |

# 4.6.6. Strategic Pillar 6: IT Clusters & Collaboration

| Strategic Pilla | r 6: IT Clusters & Collaboration  |
|-----------------|---|
| Goal:           | Increasing systemic competitiveness through IT clusters and collaboration   |
| Rationale:      | Clusters are an important tool for promoting the Kosovo IT industry, particularly<br>with regards to export promotion, industry collaboration and innovation/R&D.<br>Furthermore, clusters allow Kosovo IT companies to overcome resource<br>constraints and jointly target new markets.  |
|                 | Clusters are also a valuable instrument for international branding and positioning,<br>because they increase visibility and allow for more efficient and targeted<br>marketing and communication. By stressing the specific capabilities and<br>competitive advantages of the Kosovo IT industry, clustering could become an<br>important means of branding and differentiating the industry from competitors.  |
|                 | Clusters allow companies to specialize in specific capabilities and technologies,<br>whilst providing the collaborative linkage and exchange necessary to integrate<br>these different capabilities into innovative products and services. By reconfiguring<br>and recombining the different technical and managerial capabilities of the member<br>companies, the cluster can quickly adapt to changing market conditions and<br>technology trends, thus increasing the international competitiveness of the Kosovo<br>IT industry.  |
| Description:    | <ul> <li>Improving systemic competitiveness through clusters and collaboration</li> <li>Achieving economies of scale through cooperation</li> <li>Achieving synergy effects through collaboration of companies with different technical capabilities</li> <li>Joint marketing and export promotion</li> <li>Increasing the international visibility of the Kosovo IT industry</li> <li>Developing and implementing specialized support services (cluster services) for Kosovo IT companies</li> <li>Cost optimization through demand bundling (collective bargaining power) and resource sharing</li> <li>Increasing innovative strengths by bundling of competences and resources</li> <li>Raised marketplace profile</li> <li>Effective lobbying</li> </ul> |
| Tasks           | <ul> <li>6.1 Implement capacity building in IT cluster management</li> <li>6.2 Establish STIKK as an IT Cluster of Excellence</li> <li>6.3 Establish international advisory board within STIKK ("Brand Ambassadors")</li> <li>6.4 Establish specialized sub-clusters for targeted marketing and positioning</li> <li>6.5 Implement cluster promotion program</li> <li>6.6 Establish job exchange within STIKK website</li> <li>6.7 Support the OSS community</li> <li>6.8 Establish joint competence centre on EU projects</li> <li>6.9 Promote international cluster linkage</li> <li>6.10 Establish special competence groups for strategic IT topics</li> </ul>  |

# 4.6.7. Strategic Pillar 7: Entrepreneurship

| Strategic Pilla | r 7: Entrepreneurship   |
|-----------------|---|
| Goal:           | Enhancing IT entrepreneurship in Kosovo   |
| Rationale:      | The rationale behind this strategic pillar is to establish an entrepreneurial ecosystem conducive to IT entrepreneurship and innovation.  |
|                 | This is particularly relevant with regards to the scalability of the Kosovo IT industry<br>and its long-term competitiveness. Special emphasis needs to be placed on<br>providing customized support services for IT start-ups, as well as on fostering<br>cooperation between mature IT enterprises and start-ups. |
| Description:    | <ul> <li>Promoting an ecosystem and framework conditions conducive to IT<br/>entrepreneurship</li> </ul>  |
|                 | <ul> <li>Improving access to VC</li> </ul>  |
|                 | <ul> <li>Providing specialized support services for IT entrepreneurs and start-ups</li> </ul>   |
|                 | <ul> <li>Raising awareness about the importance of IT entrepreneurship</li> </ul>   |
|                 | <ul> <li>Promoting cooperation and exchange of experiences between established IT companies and start-ups</li> </ul>  |
| Tasks           | 7.1 Establish mentoring committee at STIKK/ICK  |
|                 | 7.2 Support the establishment of the Kosovo Business Angels and VC Association  |
|                 | 7.3 Organize B2B match-making events between investors and IT entrepreneurs<br>on a national level  |
|                 | 7.4 Organize international VC4IT conference in Kosovo   |
|                 | 7.5 Introduce specialized consulting & coaching service for IT entrepreneurs and start-ups  |
|                 | 7.6 Establish IT Entrepreneurship Award ("DigitalOne")  |
|                 | 7.7 Establish high tech start-up fund (PPP)   |
|                 | 7.8 Introduce IT Entrepreneurship @ School program  |
|                 | 7.9 Establish international linkage and sponsorship for ICK   |
|                 | 7.10 Promote university-based IT start-ups  |

# 4.6.8. Strategic Pillar 8: Innovation & Applied R&D

| Strategic Pilla | r 8: Innovation & Applied R&D  |
|-----------------|--|
| Goal:           | Fostering innovation and applied R&D   |
| Rationale:      | Innovation and applied R&D is of strategic importance for the Kosovo IT industry, particularly in the medium and long run. Applied R&D and innovative IT solutions will help the IT sector differentiate itself from competitors and increase its added value.   |
|                 | Consequently, innovation will play an important role in strengthening the international competitiveness of the Kosovo IT industry and ensuring sustainable organic growth. This requires establishing the necessary framework conditions, as well as R&D and innovation capabilities.  |
| Description:    | <ul> <li>Promoting an environment and framework conditions conducive to innovation and applied R&amp;D</li> <li>Providing advisory services on relevant support programs (e.g. Horizon 2020)</li> <li>Promoting cluster-based cooperation between companies and the academia</li> <li>Capacity building in open innovation methods and tools</li> <li>Awareness raising on the importance of innovation and applied R&amp;D for the future of the Kosovo IT industry</li> </ul>                                    |
| Tasks           | <ul> <li>8.1 Conduct information events on Horizon 2020 program (IT)</li> <li>8.2 Introduce capitalization of patents licences and development costs</li> <li>8.3 Introduce tax incentives for investments into innovation and R&amp;D</li> <li>8.4 Establish open innovation system for the Kosovo IT industry</li> <li>8.5 Introduce IT Innovation and R&amp;D program</li> <li>8.6 Establish Competence Centers for applied R&amp;D in strategic IT topics</li> <li>8.7 Establish vendor roundtables</li> </ul> |

# 4.6.9. Strategic Pillar 9: Investment Promotion

| Strategic Pilla | ar 9: Investment Promotion   |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|
| Goal:           | Promoting Kosovo as an IT investment location  |  |  |  |  |  |  |
| Rationale:      | In order to promote the international competitiveness of its IT industry, Kosovo will need foreign direct investment to introduce new management techniques, foster technology transfer, and to encourage the development of innovative IT products and services. Besides, FDI could have an important multiplier effect on the local IT industry. |  |  |  |  |  |  |
|                 | In addition, FDI by MNCs in Kosovo and the establishment of subsidiaries will also<br>provide local IT enterprises with the opportunity to access foreign markets<br>indirectly by becoming suppliers of MNCs. This intermediate mode of<br>internationalization is of particular importance since Kosovo's domestic IT market<br>is very limited. |  |  |  |  |  |  |
|                 | Investment promotion also plays an important role with regards to international branding of the Kosovo IT industry.  |  |  |  |  |  |  |
| Description:    | <ul> <li>Increasing the attractiveness of Kosovo as a destination for IT investments<br/>(FDI)</li> </ul>  |  |  |  |  |  |  |
|                 | • Strengthening the collaboration between KIESA and STIKK ("One Stop Shop")  |  |  |  |  |  |  |
|                 | <ul> <li>Developing and implementing the instruments for effective investment<br/>promotion in the IT industry</li> </ul>  |  |  |  |  |  |  |
|                 | <ul> <li>Promoting linkages between foreign investors and the Kosovo IT industry<br/>(intermediate mode of internationalization); integration into international<br/>value chains</li> </ul>   |  |  |  |  |  |  |
|                 | <ul> <li>Promoting technology transfer from international investors to the Kosovo IT industy</li> </ul>  |  |  |  |  |  |  |
| Tasks           | 9.1 Elaborate IT-specific marketing material (investment promotion)  |  |  |  |  |  |  |
|                 | 9.2 Develop special information section on the Kosovo ICT Industry on KIESA website  |  |  |  |  |  |  |
|                 | 9.3 Introduce Incentive scheme for FDI in the Kosovo IT Industry   |  |  |  |  |  |  |
|                 | 9.4 Engage key account manager for the IT industry at KIESA  |  |  |  |  |  |  |
|                 | 9.5 Conduct specialized marketing & PR activities  |  |  |  |  |  |  |
|                 | 9.6 Establish Digital Tech Park  |  |  |  |  |  |  |

# 5. Strategy Implementation

According to the methodology for the collaborative development of the Kosovo IT Strategy, we will now turn to the next module of the strategy development cycle, which is strategy implementation.

Strategy implementation poses a number of important challenges, and this is particularly evident in the case of IT strategies. Sector promotion strategies of transformation countries like Kosovo are often hampered in the implementation stage by limitations in terms of financial resources and organizational capabilities. Frequently, such strategies exist only on paper, but not in action.

With regards to the implementation of the Kosovo IT Strategy, the working group identified the following key challenges:

- Limited financial resources
- Limited staff
- Multi-stakeholder setting
- Absence of sectoral support institutions (e.g. ICT Ministry or IT Promotion Agency)
- No central unit or hierarchy
- Lack of best practice examples and experiences
- Complexity and dynamics of the IT industry
- Finding an appropriate organizational structure for collaborative IT strategy implementation in Kosovo

In order to address these challenges and ensure effective implementation of the Kosovo IT Strategy, we will define the appropriate management instruments (e.g. operational plan), organizational structures and processes in the following chapter. In addition, we will address the issues of risk management, change management and knowledge management.

## 5.1. Operational Plan

Effectively managing the implementation of the Kosovo IT Strategy requires an instrument which takes into account the specific challenges of collaborative strategy implementation (see above). Since a diverse range of stakeholders is involved with limited experience and capacities in strategy implementation, a comprehensive, robust and simple management instrument should be applied. At the same time, this tool needs to reflect the agile approach of the strategy and to allow for flexible adaptation of the strategy implementation process to changing market conditions, budgets and technology trends.

Operational plans have proven to be an effective tool for managing the implementation of complex strategies. Consequently, the working group decided to elaborate a detailed operational plan which will serve as the key management instrument for implementing the Kosovo IT Strategy.

The operational plan plays a key role in strategy implementation for the following reasons:

- Defining tasks, activities, responsibilities, resources and timing
- Providing a key instrument for stakeholder coordination and collaboration
- Facilitating collaborative strategy implementation in order to achieve joint goals ("roadmap")
- Facilitating Project management and controlling
- Allowing for effective budget and resource management
- Providing the basis for monitoring and evaluation

In this context, it deserves mentioning that the operational plan for the Kosovo IT Strategy has been designed as a "living document", which needs to be regularly reviewed, updated and adapted (agile approach), in order to facilitate organizational learning and continuous improvement.

The operational plan for the Kosovo IT Strategy has been structured according to the 9 strategic pillars and the corresponding tasks outlined in chapter 4. As indicated in the following chart, each task has been operationalized into individual work packages (WPs), consisting of several activities that need to be implemented.

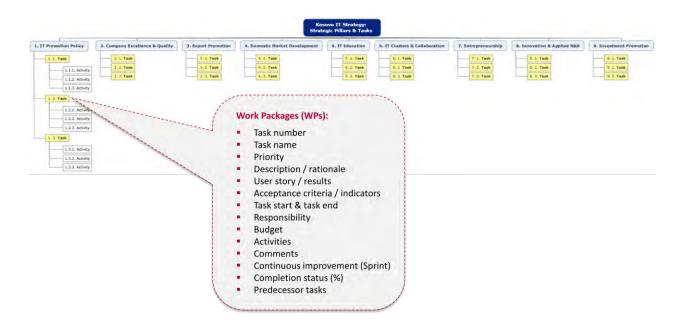
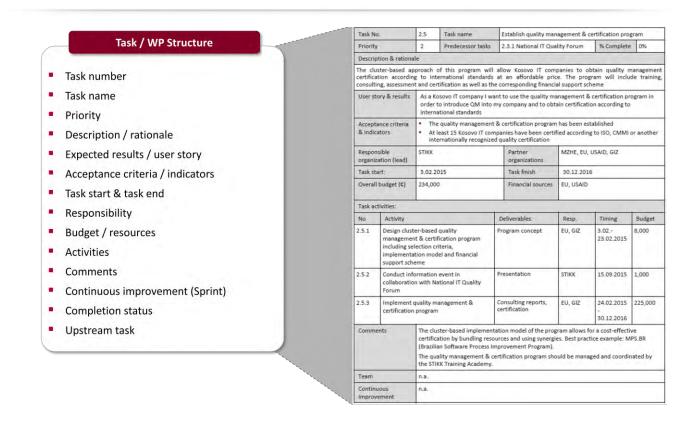


Figure 38: Structure of operational plan

For each of the tasks or work packages (WPs), results, acceptance criteria, responsibilities, budgets and activities have been defined in the form of a so-called WP description. Taking into account the agile approach of the Kosovo IT Strategy, the working group also defined user stories for each task to ensure customer/target group orientation and to specify the intended impacts. Similar to agile software development, the user story captures the "who", "what" and "why" for each task in a simple and concise way.

The following chart provides an example of such a WP description and its structural elements:

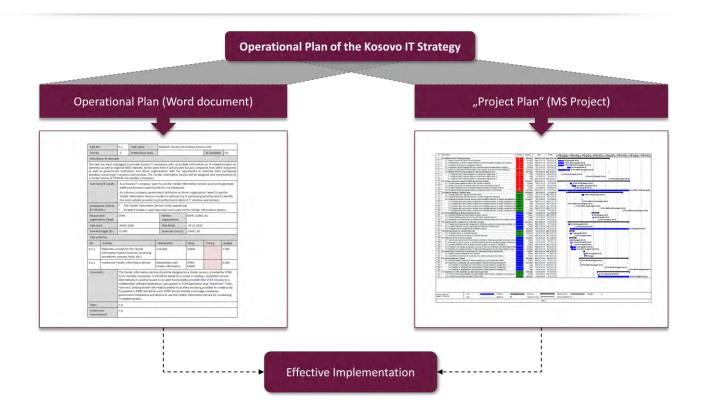


#### Figure 39: Description and structure of work packages

The operational plan and its integrated portfolio structure, consisting of strategic pillars and corresponding tasks or work packages, provide the following advantages:

- Breaking down the scope of the IT strategy implementation into manageable WPs and activities
- Making the whole strategy implementation process manageable and measurable
- Using tasks/WPs as planning, management and controlling units
- Allowing for a structured planning and implementation on a collaborative basis
- Enabling agility and flexible adaptation of support measures/tasks to changing market conditions and priorities without having to change the whole strategy
- Enabling parallel implementation of tasks
- Promoting continuous improvement of the strategy implementation process (plan, do, check, act)
- Facilitating effective communication and coordination

The operational plan has been further complemented with a detailed timetable and project schedule in MS Project (see chapter 5.2). The following chart illustrated these two key elements of the operational plan for the Kosovo IT Strategy:



#### Figure 40: Key elements of the operational plan of the Kosovo IT Strategy

Furthermore, the structure of the operational plan has also been integrated into the SharePoint of the Kosovo IT Strategy (see chapter 5.8) in order to support a smooth and effective implementation.

In summary, one could state that the operational plan is the core instrument and roadmap for the implementation of the Kosovo IT Strategy.

In the following section we will present the operational plan for the implementation of the Kosovo IT Strategy according to the strategic pillars and the above-mentioned structure.

#### 5.1.1. Strategic Pillar 1: IT Promotion Policy

#### 5.1.1.1. Establish Ministry of Information and Communications Technology

| Task No.   | 1.1 | Task name         | Establish Ministry of Information and Communications<br>Technology |            |    |  |  |  |
|--|-----|-------------------|--|------------|----|--|--|--|
| Priority   | 3   | Predecessor tasks | -  | % Complete | 0% |  |  |  |
| Description & rationale  |     |                   |  |            |    |  |  |  |
| The mission of the Ministry of Information and Communications Technology (ICT Ministry) is to promote digital transformation in Kosovo and supporting Kosovo in becoming a knowledge-based economy. The primary objectives of the ICT Ministry are to develop a vibrant digital ecosystem in Kosovo and to foster the IT industry in becoming the main driver for economic growth, employment and innovation. The ICT Ministry of Kosovo will cover inter alia the following key functions and topics: |     |                   |  |            |    |  |  |  |
| <ul> <li>Digital transformation</li> </ul>   |     |                   |  |            |    |  |  |  |

| Task No                                      | ).   | 1.1   | Task name   |                     | stablish Ministry of<br>echnology              | nformation                                      | and Communi                        | cations               |  |  |  |
|--|--|---|---|---------------------|--|---|------------------------------------|-----------------------|--|--|--|
| •  | ICT strategy   | ,   |   |                     |  |   |                                    |                       |  |  |  |
|  | ICT policy   |   |   |                     |  |   |                                    |                       |  |  |  |
|  | ICT infrastru  | ucture  |   |                     |  |   |                                    |                       |  |  |  |
|  | ICT sector p   |   |   |                     |  |   |                                    |                       |  |  |  |
|  | -  |   | e-government  |                     |  |   |                                    |                       |  |  |  |
|  | Digital skills   | developr  | ment & HR excellence  | 2                   |  |   |                                    |                       |  |  |  |
|  | Cyber secur  | -   |   |                     |  |   |                                    |                       |  |  |  |
|  |  | al CIO & ICT advisory for the government            |   |                     |  |   |                                    |                       |  |  |  |
|  |  | innovation  |   |                     |  |   |                                    |                       |  |  |  |
| mpleme                                       |  | ith the ot<br>Kosovo I                              | her key stakeholders,<br>Γ Strategy and will the  |                     |  |   |                                    |                       |  |  |  |
| In order<br>a Nation<br>National<br>National | to strengthen<br>al CIO within t<br>CIO will focus<br>I IT Promotion | the opera<br>he Minist<br>on topics<br>Agency w     | ational capabilities of<br>ry as well as the estal<br>s related to public IT r<br>vill be to promote the<br>s (IT sector promotion    | blisl<br>nan<br>dev | hment of a National agement and e-gove         | IT Promotio<br>ernment the                      | n Agency. Whi<br>main function     | le the<br>of the      |  |  |  |
| User sto                                     | ory & results  | and Cor   | sovo IT industry stake<br>mmunications Techno<br>oment of the Kosovo I  | olog                | y in order to promot                           |   | -                                  |                       |  |  |  |
| Accepta<br>& indica                          | ance criteria<br>ators   | • The   | ICT Ministry of Kosov   | o is                | fully operational.                             |   |                                    |                       |  |  |  |
| Respon:<br>organiza                          | sible<br>ation (lead)  | ZKM   |   |                     | Partner<br>organizations                       | STIKK, MTI, MZHE, MAP, MF, EU, USAID, NMFA, GIZ |                                    |                       |  |  |  |
| Task sta                                     | art:   | n.a.  |   |                     | Task finish                                    | n.a.  |                                    |                       |  |  |  |
| Overall                                      | budget (€)   | n.a.  |   |                     | Financial sources                              | GoK   |                                    |                       |  |  |  |
| Task act                                     |  | 11.a.   |   |                     | Tinancial sources                              | GOK   |                                    |                       |  |  |  |
| No   | Activity   |   |   | De                  | eliverables:                                   | Resp.   | Timing                             | Budget                |  |  |  |
| 1.1.1  | ICT Ministry<br>analysis of in                                       | of Kosovo<br>Iternation<br>al structu               | ion concept for the<br>o (feasibility study,<br>al best practices,<br>re, functions,  |                     | plementation<br>ncept                          | MZHE  | n.a.                               | n.a.                  |  |  |  |
| 1.1.2  |  |   | roposal for the<br>CT Ministry of   | Le                  | gislative proposal                             | MZHE  | n.a.                               | n.a.                  |  |  |  |
| 1.1.3  | Adopt decre<br>of the ICT M  | -   | n the establishment<br>Kosovo   | De                  | cree / law                                     | ZKM   | n.a.                               | n.a.                  |  |  |  |
| 1.1.4  | Establish ICT  | Ministry  | of Kosovo   | Or                  | ganization chart                               | ZKM   | n.a.                               | n.a.                  |  |  |  |
| 1.1.5  | -  | oosition of National CIO within<br>iistry of Kosovo |   |                     | o description                                  | ZKM   | n.a.                               | n.a.                  |  |  |  |
| 1.1.6  | Establish Nat  | tional IT P   | romotion Agency   | Or                  | ganization chart                               | ZKM   | n.a.                               | n.a.                  |  |  |  |
| Comme  | nts  | a later si<br>operatio<br>recomm<br>partners        | getary reasons it might<br>tage when the ICT Mi<br>onal efficiency and cus<br>endable to organize i<br>ship (PPP).<br>ctice examples: | nist<br>stor        | ry of Kosovo is fully<br>mer orientation of th | operational<br>e National I                     | . In order to ind<br>T Promotion A | crease<br>gency it is |  |  |  |

| Task No.                  | 1.1   | Task name   | Establish Ministry of Information and Communications<br>Technology |  |  |
|---------------------------|---|---|--|--|--|
|                           | Ministry<br>German<br>USA: CIC<br>Innovati<br>ITIDA Eg<br>Nationa | inistry of ICT of Colombia: <u>http://www.mintic.gov.co/portal/604/w3-channel.html</u><br>inistry of Communications and Information Technology of Egypt: <u>http://www.mcit.g</u><br>ermany: National CIO: <u>http://www.cio.bund.de</u><br>5A: CIO.GOV: <u>https://cio.gov/</u><br>novation Agency for ICT and Media of Baden-Wuerttemberg: <u>http://innovation.mfg.</u><br>IDA Egypt: <u>http://www.itida.gov.eg</u><br>ational IT Industry Promotion Agency: <u>https://www.nipa.kr/eng/main.it</u><br>focomm Development Authority of Singapore: http://www.ida.gov.sg |  |  |  |
| Team                      | n.a.  |   |  |  |  |
| Continuous<br>Improvement | n.a.  |   |  |  |  |

## 5.1.1.2. Establish National Committee on Digital Transformation

| Task No   |  | 1.2   | Task name  | E   | Establish National Co   | mmittee on Digital Transformation  |  |  |  |  |
|---|--|---|--|---|---|--|--|--|--|--|
| Priority  |  | 1   | Predecessor tasks  | -   |   |  | % Complete   | 0%   |  |  |
| Descript  | ion & rationa  | le  |  |   |   |  |  |  |  |  |
| computir<br>organizat<br>influence<br>and impr<br>a broad r<br>major ch<br>the socie<br>In order t<br>Committ | ng have a majo<br>tions and peop<br>on all areas of<br>ovement in the<br>range of oppo<br>allenge becau<br>ty at large.<br>to use the opp<br>ee on Digital T | or impact<br>ple work,<br>of an ente<br>ne way pe<br>rtunities i<br>se it impa<br>portunitie<br>Fransform | orresponding techno<br>on Kosovo's econom<br>communicate and co<br>rprise, from impact o<br>ople collaborate with<br>n terms of economic<br>acts not only industry<br>s provided by digital f<br>nation will be establish<br>r cooperation and coo | y an<br>oope<br>on co<br>in a<br>dev<br>stro<br>tran<br>hed | nd society. Digital tec<br>erate. On the corpora<br>ustomer experience<br>an organization. For l<br>velopment and innov<br>uctures but also gove<br>nsformation and man<br>l, including all relevan | hnologies are<br>te level digita<br>to enhanced p<br>(osovo, digital<br>ation. At the<br>ernment instit<br>age its challer<br>nt stakeholder | changing the<br>I tools have a p<br>productivity in<br>I transformatic<br>same time it re<br>utions, the aca<br>nges, a Nationa<br>s. This Commi | way how<br>pervasive<br>operations<br>on provides<br>epresents a<br>demia and<br>al<br>ttee will |  |  |
|   | ry & results   |   | sovo IT industry stake<br>rmation to promote   |   |   |  | nmittee on Dig   | ital   |  |  |
| Accepta<br>& indica   | nce criteria<br>tors   | • The   | National Committee   | on  | Digital Transformatic   | n has been es  | tablished.   |  |  |  |
| Respons<br>organiza   | ible<br>ition (lead)   | ZKM   |  |   | Partner<br>organizations  | STIKK, MTI, UNIV, MASHT, ASHI, KIPA<br>, MF, EU, USAID, SDC, NMFA, GIZ   |  |  |  |  |
| Task sta  | rt:  | 03.11.2   | 016  |   | Task finish   | 30.12.2018   |  |  |  |  |
| Overall I   | oudget (€)   | 16,000  |  |   | Financial sources   | MZHE   |  |  |  |  |
| Task act  | ivities:   |   |  |   |   |  |  |  |  |  |
| No  | Activity   |   |  | D   | eliverables:  | Resp.  | Timing   | Budget   |  |  |
| 1.1.1   | Identify com   | imittee members   |  | -   | t of committee<br>embers  | MZHE   | 3.11.2016  | 1,000  |  |  |
| 1.1.2   | Transformat  | National Committee on Digital<br>nation and identify focus topics<br>stry 4.0, e-health, e-energy,        |  |   | atute; list of<br>mmittee members   | MZHE   | 4.11<br>6.11.2016  | 3,000  |  |  |
| 1.2.3   | -  | ize meetings / workshops of<br>nal Committee on Digital   |  | Pro   | ogram; protocols  | STIKK,<br>MZHE   | 8.11.2017-<br>8.11.2018  | 2,000  |  |  |

| Task No  |                   | 1.2        | Task name   | Establish National Committee on Digital Tra  |                                   |                          | mation |
|--|-------------------|------------|---|--|-----------------------------------|--------------------------|--------|
|  | Transformat       | ion on an  | annual basis  |  |                                   |                          |        |
| 1.2.4  | on digital tra    | ansformat  | raising campaign<br>ion and the<br>of the Kosovo IT | Program;<br>presentations  | STIKK                             | 3.11<br>14.11.2016       | 10,000 |
| 1.2.5  | Place the IT list | industry c | n national priority                                 | National priority list   | ZKM                               | 7.11.2016-<br>30.12.2018 | -      |
| Comments<br>This task needs to be closely<br>in strategic IT topics.<br>It might be advisable to organ<br>Conference on an annual bas<br>Best practice examples:<br>Germany: National IT Summi<br>Colombia Digital: http://en.co |                   |            |   | nize a National IT Confe<br>sis to ensure public inter<br>it: <u>http://www.it-gipfel.</u> | rence or Digita<br>rest and suppo | al Transformati          |        |
| Team n.a.  |                   |            |   |  |                                   |                          |        |
| Continuous n.a.<br>Improvement   |                   |            |   |  |                                   |                          |        |

## 5.1.1.3. Implement capacity building on IT sector promotion

| Task No.   |   | 1.3  | Task name           | 1   | Implement capacity building on IT sector promotion |   |                   |        |  |  |
|--|---|--|---------------------|-----|--|---|-------------------|--------|--|--|
| Priority   |   | 2  | Predecessor tasks   | -   |  |   | % Complete        | 0%     |  |  |
| Descript   | ion & rational  | е  |                     |     |  |   |                   |        |  |  |
| The main goal of this task is to create awareness on the strategic importance of the IT industry for Kosovo and to provide relevant stakeholders with the necessary know-how, methodologies and tools for effective IT sector promotion and for introducing a comprehensive IT policy. In addition to that training and capacity building on IT sector promotion will also facilitate the implementation of the Kosovo IT strategy as well as change management within the IT sector. The target group for the capacity building includes primarily public actors, STIKK and the academia. |   |  |                     |     |  |   |                   |        |  |  |
| User sto   | User story & results As a Kosovo IT industry stakeholder I want to use the capacity building and training so that I can promote the IT sector in Kosovo more effectively.   |  |                     |     |  |   |                   |        |  |  |
|  | <ul> <li>cceptance criteria</li> <li>Training material and case studies on IT sector promotion have been developed and approved by STIKK.</li> <li>At least 15 key stakeholders (persons) have successfully completed the capacity buildin on IT sector promotion.</li> </ul> |  |                     |     |  |   |                   |        |  |  |
| Respons<br>organiza  | ible<br>tion (lead)   | STIKK  |                     |     | Partner<br>organizations                           | ZKM, MTI, KIESA, MZHE, KIPA, KRPP,<br>ASHI, MASHT, UNIV, MF, MKRS,<br>MPMS, NMFA, EU, USAID, SDC, GIZ,<br>Development Banks |                   |        |  |  |
| Task star  | t:  | 01.12.2  | 016                 |     | Task finish  | 11.12.2016  |                   |        |  |  |
| Overall b  | oudget (€)  | 8,000  |                     |     | Financial sources                                  | GIZ   |                   |        |  |  |
| Task acti  | vities:   |  |                     |     |  |   |                   |        |  |  |
| No   | Activity  |  |                     |     | eliverables:                                       | Resp.   | Timing            | Budget |  |  |
| 1.3.1  | •   | Develop training concept and material<br>for capacity building in IT sector<br>promotion |                     |     | aining concept;<br>aining material                 | GIZ   | 1.12<br>4.12.2016 | 4,000  |  |  |
| 1.3.2  | Conduct trai  | ning work  | shop (3 days) on IT | Pro | ogram; results of                                  | GIZ   | 8.12              | 4,000  |  |  |

| Task No.   | Task No. 1.3 Tas         |            | Task name           | Implement capacity b   | ouilding on IT s  | ector promot   | ion                                |
|--|--------------------------|------------|---------------------|--|---|--|------------------------------------|
|  | sector prom              | otion      |                     | group works /<br>assignments; list of<br>participants  |   | 11.12.2016   |                                    |
| 1.3.3  | Provide man<br>promotion | ual and to | oolbox on IT sector | Manual and toolbox   | GIZ   | 1.12.2016  | -                                  |
| Comments<br>The capacity building and tra<br>IT industry classification and a<br>economic development, meth<br>training, export promotion, d<br>entrepreneurship & innovatio<br>and case studies.<br>The training should include p<br>and assignments. |                          |            |                     | structural characteristic<br>hodologies, IT strategy,<br>omestic market develop<br>on, industry collaboratic | s, importance o<br>clusters and ne<br>oment, public p<br>on, internationa | of the IT indus<br>etworks, IT ed<br>procurement,<br>al best practic | try for<br>ucation &<br>e examples |
| Team n.a.  |                          |            |                     |  |   |  |                                    |
| Continue<br>Improve  |                          | n.a.       |                     |  |   |  |                                    |

# 5.1.1.4. Promote digital ecosystem

| Task No.                               |   | 1.4  | Task name                                     | P                        | Promote digital ecosystem                                  |                    |                               |        |  |  |  |  |
|--|---|--|---|--------------------------|--|--------------------|-------------------------------|--------|--|--|--|--|
| Priority                               |   | 2  | Predecessor tasks                             | -                        | - % Complete 0%  |                    |                               | 0%     |  |  |  |  |
| Descript                               | ion & rational  | e  | L   |                          |  |                    |                               |        |  |  |  |  |
|  | This task implies a set of specialized measures to enhance the digital (IT industry) ecosystem and to establish the necessary framework conditions for entrepreneurship, innovation and IT sector growth. |  |   |                          |  |                    |                               |        |  |  |  |  |
| User sto                               | ry & results  |  | ovo IT company I wa<br>em so that I can furth |                          |  | -                  | digital (IT indu              | stry)  |  |  |  |  |
|  | <ul> <li>The measures to promote the digital ecosystem have been implemented.</li> <li>At least 75% of the IT companies interviewed, rate the digital ecosystem with "good".</li> </ul>                   |  |   |                          |  |                    |                               |        |  |  |  |  |
| Responsible MTI<br>organization (lead) |   |  |   | Partner<br>organizations | MASHT, MTI, KIESA, MZHE, MF,<br>MPMS, ASHI, ZKM, EU, USAID |                    |                               |        |  |  |  |  |
| Task sta                               | rt:   | 01.01.2  | 017   |                          | Task finish  | 30.12.2018         |                               |        |  |  |  |  |
| Overall I                              | Overall budget (€) 54,000   |  |   |                          | Financial sources  |                    |                               |        |  |  |  |  |
| Task act                               | ivities:  |  |   |                          |  |                    |                               |        |  |  |  |  |
| No                                     | Activity  |  |   | De                       | eliverables:   | Resp.              | Timing                        | Budget |  |  |  |  |
| 1.4.1                                  | protect Intel   | Design and implement measures to<br>protect Intellectual Property Rights (IPR)<br>(particularly IPR enforcement) |   | eva                      | crees / laws;<br>aluation reports,<br>ernational rankings  | MZHE               | 1.01<br>11.02.2017            | 30,000 |  |  |  |  |
| 1.4.2                                  | Design and implement measures to<br>stimulate the supply of venture capital<br>(e.g. tax incentives)  |  | De  | cree                     | MF   | 1.01<br>30.01.2017 | 9,000                         |        |  |  |  |  |
| 1.4.3                                  | Implement at least 3 information events<br>on open source software (OSS) for IT<br>companies, universities and public<br>institutions   |  |   | pre                      | ogram;<br>esentations; list of<br>rticipants               | STIKK              | 14.01.2017<br>-<br>14.01.2018 | 9,000  |  |  |  |  |
| 1.4.4                                  |   |  | l leave (3 days /<br>inuing education         | De                       | cree / law   | MASHT              | 14.01<br>13.02.2017           | 2,000  |  |  |  |  |

| Task No.  |   | 1.4        | Task name | Promote digital ecosy | Promote digital ecosystem |                               |                 |
|---|---|------------|-----------|-----------------------|---------------------------|-------------------------------|-----------------|
|   | and profession                                  | onal train | ing       |                       |                           |                               |                 |
| 1.4.5   | Promote the availability of public company data |            |           | Decree / law          | ASHI                      | 14.01.2017<br>-<br>30.12.2018 | 3,000           |
| Comments Best practice example:<br>Open Source Advisory Center<br>Educational leave:<br>http://www.saarland.de/doku |   |            |           |                       |                           |                               | <u>2011.pdf</u> |
| Team  |   | n.a.       |           |                       |                           |                               |                 |
| Continuo<br>Improve   |   | n.a.       |           |                       |                           |                               |                 |

# 5.1.1.5. Introduce income tax incentives for certified software developers

| Task No.   |   | 1.5   | Task name                                     |                      | Introduce income tax incentives for certified software |                  |                   |              |  |  |
|--|---|-------|---|----------------------|--|------------------|-------------------|--------------|--|--|
|  |   | _     |   | 0                    | levelopers   |                  |                   |              |  |  |
| Priority   |   | 2     | Predecessor tasks                             |                      |  |                  | % Complete        | 0%           |  |  |
| Descript   | ion & rational                              | е     |   |                      |  |                  |                   |              |  |  |
|  | nale behind tl<br>void brain drai           |       | to increase the attra                         | ctiv                 | eness of the softwar                                   | e industry for l | nighly qualified  | d IT experts |  |  |
| User sto   | ry & results                                |       | sovo IT company I wa<br>Jualified IT experts. | ant 1                | to use income tax inc                                  | entives so tha   | t I can attract   | and retain   |  |  |
| Acceptance criteria The decree on income tax incentives for certified software developers has been adopted. & indicators       |   |       |   |                      |  |                  |                   |              |  |  |
| Responsible MF<br>organization (lead)  |   |       |   |                      | Partner<br>organizations                               | STIKK, MZHE      |                   |              |  |  |
| Task start: 01.01.2017   |   |       |   | Task finish          | 05.03.2017   |                  |                   |              |  |  |
| Overall I  | oudget (€)                                  | 3,000 |   |                      | Financial sources                                      | MF               |                   |              |  |  |
| Task act   | ivities:                                    |       |   |                      |  |                  |                   |              |  |  |
| No   | Activity                                    |       |   | D                    | eliverables:   | Resp.            | Timing            | Budget       |  |  |
| 1.5.1  | Elaborate dr<br>incentives fo<br>developers |       | e on income tax<br>I software                 | Dr                   | aft decree   | MF               | 1.01<br>8.01.2017 | 3,000        |  |  |
| 1.5.2  | Adopt decre<br>for certified                |       | me tax incentives<br>developers               | Decree               |  | MF               | 9.01<br>5.03.2017 | -            |  |  |
| Comments Best practice example:<br>In 2001 the Romanian gover<br>companies which employ cer<br>attract qualified staff to loca |   |       | tifie   | ed programmers. This | s has proven to  | be an effecti    | ve tool to        |              |  |  |
| Team   |   | n.a.  |   |                      |  |                  |                   |              |  |  |
| Continuous n.a.<br>Improvement   |   |       |   |                      |  |                  |                   |              |  |  |

# 5.1.1.6. Reform public IT procurement system

| Task No  |                            | 1.6                   | Task name   | R                        | Reform public IT procurement system   |                                     |                    |        |  |
|--|----------------------------|-----------------------|---|--------------------------|---|-------------------------------------|--------------------|--------|--|
| Priority   |                            | 2                     | Predecessor tasks   | -                        |   | % Complete                          | 0%                 |        |  |
| Descrip  | tion & rational            | e                     |   |                          |   |                                     |                    |        |  |
| compani<br>procurer  | es are heavily             | depende<br>n order to | l customer of the IT in<br>nt on public sector de<br>increase transparenc<br>npanies. | ema                      | nd. The intention of  | this task is to r                   | eform the pub      | lic IT |  |
| User story & results As a Kosovo IT industry stakeholder I want to use the reform to make the public procurement system more transparent and effective   |                            |                       |   |                          |   |                                     | ke the public IT   | -      |  |
| <ul> <li>Acceptance criteria</li> <li>The reform of the public IT procurement system has been implemented.</li> <li>75% of the IT companies interviewed rate the reformed procurement system w "good".</li> </ul>  |                            |                       |   |                          |   |                                     |                    | with   |  |
| Respons<br>organiza  | sible<br>ation (lead)      | KRPP                  |   | Partner<br>organizations | STIKK, MF, KIPA, ASHI, EU, USAID,<br>World Bank                             |                                     |                    |        |  |
| Task sta   | rt:                        | 15.01.2017            |   |                          | Task finish   | 24.04.2017                          |                    |        |  |
| Overall budget (€) 30,000  |                            |                       |   |                          | Financial sources   | EU, USAID                           |                    |        |  |
| Task act   | ivities:                   |                       |   |                          |   |                                     |                    |        |  |
| No   | Activity                   |                       | D   |                          | eliverables:  | Resp.                               | Timing             | Budget |  |
| 1.6.1  | Revise tende<br>procuremen | -                     | ires for public IT  | -                        | vised tender<br>ocedures  | World<br>Bank                       | 15.01<br>5.02.2017 | 15,000 |  |
| 1.6.2  | Provide capa<br>procuremen |                       | -   | ma                       | ogram; training<br>Iterial; list of<br>rticipants                           | EU                                  | 6.02<br>24.04.2017 | 15,000 |  |
| Comments Concerning the revision of te<br>aspects need to be taken into<br>Interoperability Open Source Softwa Inclusion of local IT of<br>treatment for local of<br>Quality standards<br>Best practice example:<br>Promoting Local IT Sector De<br>http://unctad.org/en/Publica |                            |                       |   |                          | nsideration:<br>OSS)<br>panies (local conten<br>panies<br>pment Through Pub | t / local sourcin<br>lic Procuremen | ng) / preferent    | -      |  |
| Team   |                            | n.a.                  |   |                          |   |                                     |                    |        |  |
| Continuous n.a.<br>Improvement   |                            |                       |   |                          |   |                                     |                    |        |  |

# 5.1.1.7. Introduce standards and methodologies for IT management in the public sector

| Task No. | 1.7 | Task name         | Introduce standards and methodologies for IT management in the public sector |            |    |  |
|----------|-----|-------------------|--|------------|----|--|
| Priority | 2   | Predecessor tasks | -  | % Complete | 0% |  |

| Task No  | ).  | 1.7   | Task name  | Introduce standards and methodologies for IT management in the public sector |  |   |  |        |
|--|---|---|--|--|--|---|--|--------|
| Descrip  | tion & rationa                              | le  |  |  |  |   |  |        |
| by intro   | -   | tionally re   | mprove efficiency, in<br>ecognized standards a   |  |  |   |  | -      |
| User st  | ory & results                               |   | ovo IT industry stake<br>efficiency, interope  |  |  |   | •  |        |
| Accepta<br>& indic   | ance criteria<br>ators                      | <ul> <li>Met</li> <li>At lo reco</li> <li>At lo</li> </ul>  | east 30 civil servants<br>hodologies until the<br>east 30 employees of<br>ognized IT standards<br>east 60% of all public<br>ognized IT standards a | end<br>Kos<br>and<br>IT p  | of 2018.<br>ovo IT companies ha<br>methodologies until<br>rojects have been im | ve been train<br>the end of 20<br>plemented ad    | ed in internation<br>18.<br>ccording to inte | onally |
| Respon<br>organiz  | sible<br>ation (lead)                       | ASHI  |  |  | Partner<br>organizations   | KRPP, KIPA, MZHE, STIKK, EU, USAID,<br>NMFA, GIZ  |  |        |
| Task start: 01.10.2016   |   |   |  |  | Task finish  | 30.12.2018  |  |        |
| Overall  | budget (€)                                  | 47,000  |  |  | Financial sources  | EU, USAID   |  |        |
| Task ac  | tivities:                                   |   |  |  |  |   |  |        |
| No   | Activity                                    |   |  | Deliverables:  |  | Resp.   | Timing                                       | Budget |
| 1.7.1  | Identify rele<br>methodolog<br>scope, evalu | ies (descr  | iption of standard,  | Report   |  | ASHI  | 1.10<br>7.10.2016                            | 5,000  |
| 1.7.2  | and training                                | in standa<br>ies for pu   | r capacity building<br>Irds and<br>blic sector IT  | Pro  | oposal   | ASHI  | 8.10<br>23.10.2016                           | 12,000 |
| 1.7.3  | IT standards                                | Conduct capacity building and training in<br>IT standards and methodologies for civil<br>servants (at least 30 persons)     |  |  | aining material; list<br>participants  | STIKK<br>(STIKK<br>Training<br>Academy)<br>/ ASHI | 27.10.2016<br>-<br>30.12.2018                | 15,000 |
| 1.7.4  | IT standards                                | Conduct capacity building and training in<br>IT standards and methodologies for<br>Kosovo IT companies (at least 30 people) |  |  | aining material; list<br>participants  | STIKK<br>(STIKK<br>Training<br>Academy)           | 24.10.2016<br>-<br>29.12.2018                | 15,000 |
| Comments Best practice example:<br>National CIO: IT Standards an<br><u>http://www.cio.bund.de/We</u><br>Standards/architekturen_stat |   |   |  | b/D  | E/Architekturen-und  | <u></u>   |  |        |
| Team   |   | n.a.  |  |  |  |   |  |        |
| Continu<br>Improv  |   | n.a.  |  |  |  |   |  |        |

## 5.1.1.8. Reduce customs tariffs and VAT for IT equipment

| Task No   |                  | 1.8   | Task name  | F    | Reduce customs tariffs and VAT for IT equipment |                             |                    |         |  |
|---|------------------|---|--|------|---|-----------------------------|--------------------|---------|--|
| Priority  |                  | 1   | Predecessor tasks  | -    |   |                             | % Complete         | 0%      |  |
| Descript  | ion & rational   | e   |  |      |   |                             |                    |         |  |
| this task<br>position   | is directed at i | reducing<br>IT indust   | riffs and VAT for IT er<br>customs tariffs and V<br>ry. In addition to that<br>affordable. | AT 1 | for IT equipment in o                           | rder to streng              | then the comp      | etitive |  |
| User story & results As a Kosovo IT industry stakeholder I want to use the reduction of cu-<br>for IT equipment to reduce costs and to strengthen the competitive p<br>company. |                  |   |  |      |   |                             |                    |         |  |
| Acceptance criteria<br>& indicators The decree / law on reducing customs tariffs and VAT for IT equipment has bee<br>adopted.   |                  |   |  |      |   | en                          |                    |         |  |
| Responsible M<br>organization (lead)  |                  | MF  | MF   |      | Partner<br>organizations                        | STIKK, MTI, KIESA, MZHE, EU |                    |         |  |
| Task sta  | rt:              | 01.01.2   | 015  |      | Task finish                                     | 28.04.2015                  |                    |         |  |
| Overall I   | budget (€)       | n.a.  |  |      | Financial sources                               | n.a.                        |                    |         |  |
| Task act  | ivities:         |   |  |      |   |                             |                    |         |  |
| No  | Activity         |   |  | D    | eliverables:                                    | Resp.                       | Timing             | Budget  |  |
| 1.8.1   | -                | gislative proposal for the<br>f customs tariffs and VAT for<br>nt |  | Le   | gislative proposal                              | MF                          | 1.01<br>31.03.2015 | 3,000   |  |
| 1.8.2   |                  | e / law on the reduction of iffs and VAT for IT equipment         |  | De   | cree / law                                      | MF                          | 1.04<br>28.04.2015 | -       |  |
| Comments <sup>-</sup>   |                  |   |  |      |   |                             |                    |         |  |
| Team n.a.   |                  |   |  |      |   |                             |                    |         |  |
| Continuous n.a.<br>Improvement  |                  |   |  |      |   |                             |                    |         |  |

# 5.1.1.9. Establish National IT Quality Policy

| Task No.  | 1.9  | Task name         | Establish National IT Quality Policy |            |    |  |  |  |  |
|---|--|-------------------|--------------------------------------|------------|----|--|--|--|--|
| Priority  | 3  | Predecessor tasks | -                                    | % Complete | 0% |  |  |  |  |
| Description & rational  | Description & rationale  |                   |                                      |            |    |  |  |  |  |
| In the framework of the Kosovo IT Strategy, quality and company excellence have been identified as the key differentiators and core brand values of the Kosovo IT industry. Quality will have a major impact on the competitiveness of the Kosovo IT industry as well as on its international branding and positioning. Therefore a National IT Quality Policy will be implemented which will serve as the central element for planning, implementing and coordinating all measures related to the promotion of quality and company excellence in the Kosovo IT industry. |  |                   |                                      |            |    |  |  |  |  |
| User story & results  | As a Kosovo IT industry stakeholder I want to use the National IT Quality Policy in order to promote quality and company excellence in the Kosovo IT industry. |                   |                                      |            |    |  |  |  |  |
| Acceptance criteria<br>& indicators   | <ul> <li>The National IT Quality Policy has been developed and approved by STIKK.</li> </ul>   |                   |                                      |            |    |  |  |  |  |

| Task No  | ).  | 1.9         | Task name           | E                           | Establish National IT Quality Policy |  |                          |         |
|--|---|-------------|---------------------|-----------------------------|--------------------------------------|--|--------------------------|---------|
| Respon<br>organiz  | sible<br>ation (lead)   | STIKK       |                     |                             | Partner<br>organizations             | KIESA, MTI, MZHE, MASHT, EU,<br>USAID, NMFA, GIZ |                          |         |
| Task sta   | art:  | 02.03.2     | 017                 |                             | Task finish                          | 30.12.2018                                       |                          |         |
| Overall  | Overall budget (€) 113,000  |             |                     | Financial sources           | EU, USAID                            |  |                          |         |
| Task ac  | tivities:   |             |                     |                             |                                      |  |                          |         |
| No   | Activity  | ty          |                     |                             | eliverables:                         | Resp.  | Timing                   | Budget  |
| 1.9.1  | or forum inc<br>stakeholders  |             |                     |                             | orking group<br>ember list           | STIKK  | 2.03<br>4.03.2017        | 1,000   |
| 1.9.2  | Elaborate National IT Quality Policy<br>(analysis, objectives, measures,<br>implementation, monitoring &<br>evaluation) |             |                     |                             | itional IT Quality<br>licy           | STIKK  | 5.03.2017-<br>30.12.2018 | 12,000  |
| 1.9.3  | Implement N   | lational II | Quality Policy      | Eva                         | aluation reports                     | STIKK  | 1.10.2017-<br>30.12.2018 | 100,000 |
| Comments<br>The National IT Quality Policy<br>Quality infrastructur<br>Legal framework<br>International integra<br>Education and traini<br>Information and con<br>Quality funding<br>Quality culture |   |             | e (s<br>ation<br>ng | tandards, certificatio<br>n | • · ·                                |  |                          |         |
| Team   |   | n.a.        | Quality culture     |                             |                                      |  |                          |         |
| Continuous n.a.<br>Improvement   |   |             |                     |                             |                                      |  |                          |         |

### 5.1.1.10. Introduce IT Industry Barometer

| Task No.   | 1.10        | Task name                | Introduce IT Industry Barometer         |            |     |  |  |  |  |
|--|-------------|--------------------------|---|------------|-----|--|--|--|--|
| Priority   | 1           | Predecessor tasks        | -                                       | % Complete | 30% |  |  |  |  |
| Description & rationa  | le          |                          |   |            |     |  |  |  |  |
| The introduction of the Kosovo IT Industry Barometer pursues the following goals:  |             |                          |   |            |     |  |  |  |  |
| <ul> <li>Providing an effective and easy to use tool for monitoring and evaluating the performance of the Kosovo IT<br/>industry</li> </ul>  |             |                          |   |            |     |  |  |  |  |
| <ul> <li>Obtaining accurate statistical information on the IT industry which can be used for economic planning,<br/>benchmarking and policy advocacy</li> </ul>  |             |                          |   |            |     |  |  |  |  |
| <ul> <li>Obtain information</li> </ul>   | n on huma   | an resources (HR) and e  | export activities in the Kosovo IT indu | istry      |     |  |  |  |  |
| <ul> <li>Identifying relevant</li> </ul>   | it trends i | n the IT industry ("earl | y warning system")                      |            |     |  |  |  |  |
| <ul> <li>Gathering data to</li> </ul>  | assess the  | e strategic importance   | and economic impact of the IT indust    | ry         |     |  |  |  |  |
| <ul> <li>Better understand</li> </ul>  | ing the sp  | ecific problems and ne   | eds of Kosovo IT companies              |            |     |  |  |  |  |
| <ul> <li>Obtaining data for</li> </ul>   | IT policy   | design and targeted se   | ctor promotion.                         |            |     |  |  |  |  |
| User story & results As a Kosovo IT industry stakeholder I want to use the IT Industry Barometer so that I can monitor and evaluate the performance of the sector and to better understand the specific problems and needs of Kosovo IT companies. |             |                          |   |            |     |  |  |  |  |

| Task No  | Э.  | 1.10                    | Task name            | 1  | ntroduce IT Industry                                 | Barometer  |                               |            |  |
|--|---|-------------------------|----------------------|--|--|------------|-------------------------------|------------|--|
| Accepta<br>& indic   | ance criteria<br>ators  | <ul> <li>The</li> </ul> | Kosovo IT Industry B | Barometer is being implemented on an annual basis. |  |            |                               |            |  |
| Respon<br>organiz  | sible<br>ation (lead)   | STIKK                   |                      |  | Partner KIESA, MTI, MZHE, NMFA, GIZ organizations    |            |                               | GIZ        |  |
| Task sta   | Task start: 01.01.2016  |                         |                      |  | Task finish  | 17.05.2018 | 3                             |            |  |
| Overall  | erall budget (€) 20,000   |                         |                      |  | Financial sources                                    | GIZ        |                               |            |  |
| Task ac  | tivities:   | •                       |                      |  |  |            |                               |            |  |
| No   | Activity  |                         |                      | D  | eliverables:   | Resp.      | Timing                        | Budget     |  |
| 1.10.1   | Customize the IT Industry Barometer<br>methodology and tool provided by GIZ<br>to the specific needs of the Kosovo IT<br>industry |                         |                      | Qı   | iestionnaire   | GIZ        | 01.01<br>13.06.2016           | 2,000      |  |
| 1.10.2   | Implement t<br>Barometer o  |                         | -                    | Ba   | sovo IT Industry<br>rometer report<br>d presentation | STIKK      | 21.04.2016<br>-<br>17.05.2018 | 15,000     |  |
| 1.10.3   | Conduct pre<br>results of the<br>Barometer o  | e Kosovo                |                      | Pr   | esentation   | STIKK      | 15.04-<br>16.04.2016          | 3.000      |  |
| Comments<br>The IT Industry Barometer w<br>the implementation of the Ko<br>Best practice example:<br>Bulgarian IT Industry Barome<br>http://www.basscom.org/Ra |   |                         |                      | osov<br>eter:                                      | vo IT Strategy.                                      |            |                               | evaluating |  |
| Team   |   | n.a.                    |                      |  |  |            |                               |            |  |
| Continuous n.a.<br>Improvement   |   |                         |                      |  |  |            |                               |            |  |

### 5.1.1.11. Implement initiative "IT 4 Social Inclusion" (CSR)

| Task No.   | 1.11     | Task name  | Implement initiative "   | IT 4 Social Incl             | lusion" (CSR)          |       |  |  |  |
|--|----------|--|--------------------------|------------------------------|------------------------|-------|--|--|--|
| Priority   | 3        | Predecessor tasks  | -                        |                              | % Complete             | 0%    |  |  |  |
| Description & rational   | e        |  |                          |                              |                        |       |  |  |  |
| The main objective of this task is to support social inclusion in Kosovo through IT. This implies the implementation of CSR activities by the Kosovo IT industry and the provision of job opportunities for disabled persons and disadvantaged groups of society. The initiative "IT 4 Social Inclusion" demonstrates the commitment of the Kosovo IT industry to social responsibility and civil society. |          |  |                          |                              |                        |       |  |  |  |
| User story & results   |          | As a Kosovo IT company I want to participate in the initiative "IT 4 Social Inclusion" so that I can contribute to social inclusion and civil society in Kosovo. |                          |                              |                        |       |  |  |  |
| Acceptance criteria<br>& indicators  | • The    | initiative "IT 4 Social In   | clusion" has been succ   | essfully imple               | mented.                |       |  |  |  |
| Responsible<br>organization (lead)   | STIKK    |  | Partner<br>organizations | IT companies<br>NMFA, SDC, ( | s, MPMS, EU, US<br>GIZ | SAID, |  |  |  |
| Task start:  | 01.05.20 | 017  | Task finish              | 19.06.2017                   |                        |       |  |  |  |
| Overall budget (€)   | 33,000   |  |                          |                              |                        |       |  |  |  |

| Task No.  | ,  | 1.11       | Task name  | Implement initiative "                                 | 'IT 4 Social Inc                                       | lusion" (CSR)                       |        |
|---|--|------------|--|--|--|-------------------------------------|--------|
| Task acti   | ivities:   |            |  |  |  |                                     |        |
| No  | Activity   |            |  | Deliverables:  | Resp.  | Timing                              | Budget |
| 1.11.1  |  | STIKK leve | : joint CSR<br>el (donations,<br>persons, etc.)  | Press release  | STIKK  | 1.05<br>5.05.2017                   | -      |
| 1.11.2  | Elaborate proposal on how IT solutions<br>could empower the elderly and people<br>with disabilities (e.g. ambient assisted<br>living) and serve marginalized and<br>remote communities |            |  | Proposal   | STIKK  | 6.05<br>8.05.2017                   | 3,000  |
| 1.11.3  | Design and implement special job<br>integration program for persons with<br>autism, including training and<br>employment   |            |  | Report   | <b>STIKK</b>   | 11.05<br>19.06.2017                 | 30,000 |
| Comments The Kosovo IT industry recogn<br>pattern recognition, precision<br>errors. Therefore STIKK and it<br>autistic people, particularly in<br>trainings and coaching. For th<br>Association of Autism in Koso<br>Best practice examples:<br>Auticon: http://auticon.de/er |  |            | n, logical and analytical t<br>ts member companies w<br>n the area of software te<br>nis purpose, STIKK will clo<br>ovo. | hinking and ar<br>ill seek to crea<br>sting and will a | n affinity to ide<br>ite job opporte<br>assist them wi | entify<br>unities for<br>th special |        |
| Team  |  | n.a.       |  |  |  |                                     |        |
| Continuous n.a.<br>Improvement  |  |            |  |  |  |                                     |        |

### 5.1.2. Strategic Pillar 2: Company Excellence & Quality

### 5.1.2.1. Establish STIKK Training Academy

| Task No.   | 2.1        | Task name                | Establish STIKK Training Academy     |                  |          |  |  |  |  |  |
|--|------------|--------------------------|--------------------------------------|------------------|----------|--|--|--|--|--|
| Priority   | 1          | Predecessor tasks        | -                                    | % Complete       | 30%      |  |  |  |  |  |
| Description & rationale  |            |                          |                                      |                  |          |  |  |  |  |  |
| The IT industry is a knowledge- and skill-intensive industry thus making skills-development and training a key topic for Kosovo IT companies.            |            |                          |                                      |                  |          |  |  |  |  |  |
| The main objectives of the STIKK Training Academy are as follows:  |            |                          |                                      |                  |          |  |  |  |  |  |
| <ul> <li>Identifying the specific training needs of STIKK member companies</li> </ul>  |            |                          |                                      |                  |          |  |  |  |  |  |
| <ul> <li>Developing a speci<br/>member companie</li> </ul>   |            | ning program which is    | customized to the specific needs and | d requirements o | of STIKK |  |  |  |  |  |
| <ul> <li>Ensuring the sustai</li> </ul>  | nability a | nd affordability of the  | training program                     |                  |          |  |  |  |  |  |
| <ul> <li>Providing specialize</li> </ul>   | ed technio | cal trainings for membe  | er companies                         |                  |          |  |  |  |  |  |
| <ul> <li>Providing specialize</li> </ul>   | ed manag   | ement trainings for me   | ember companies                      |                  |          |  |  |  |  |  |
| <ul> <li>Serving as a One-St</li> </ul>  | top-Shop   | for learning and qualifi | ication                              |                  |          |  |  |  |  |  |
| <ul> <li>Promoting skills-development, organizational learning and company excellence in the Kosovo IT industry<br/>("Cluster of Excellence")</li> </ul> |            |                          |                                      |                  |          |  |  |  |  |  |

| Task No             |   | 2.1   | Task name   | E   | stablish STIKK Traini   | ng Academy   |  |   |  |
|---------------------|---|---|---|---|---|--|--|---|--|
| User sto            | ory & results   |   | sovo IT company I wa<br>ove the technical and   |   |   |  |  | y in order  |  |
| Accepta<br>& indica | ince criteria<br>ators  | <ul><li>At le</li><li>At le</li></ul>                                       | STIKK Training Acade<br>east 6 trainings / year<br>east 75% of training p<br>east 3 trainers qualifie   | r are<br>barti  | being implemented cipants evaluate the  | with at least trainings with   | 15 participants<br>"good" or "ex   | cellent"  |  |
| Respons<br>organiza | sible<br>ation (lead)   | STIKK   |   |   | Partner Universities, NMFA, GIZ, USAID, SDC EU, Dutch Development Cooperation (DDC)                                       |  |  |   |  |
| Task sta            | irt:  | 01.01.2   | 016   |   | Task finish   | 22.02.2018   |  |   |  |
| Overall             | budget (€)  | 161,000   |   |   | Financial sources   | NMFA, GIZ,   | USAID, SDC, EL   | J, DDC  |  |
| Task act            | tivities:   |   |   |   |   |  |  |   |  |
| No                  | Activity  |   |   | De  | eliverables:  | Resp.  | Timing   | Budget  |  |
| 2.1.1               | Develop con<br>Academy  | velop concept for STIKK Training<br>ademy                                   |   |   | ncept for STIKK<br>aining Academy   | GIZ  | 1.01<br>25.03.2016   | 3,000   |  |
| 2.1.2               | <ul> <li>Implementation of STIKK Training<br/>Academy concept including the following<br/>core processes:</li> <li>Definition of IT qualification profiles</li> <li>Training needs assessment</li> <li>Development of training program</li> </ul> |   |   | IT qualification<br>profiles, training<br>needs assessment,<br>training program |   | STIKK, GIZ   | 26.03<br>30.12.2016  | 20,000  |  |
| 2.1.3               | Implement t<br>trainings  | mplement technical and management rainings                                  |   |   | aining program,<br>ining material,<br>aluation forms  | STIKK,<br>NMFA, GIZ  | 26.03<br>30.12.2016  | 110.000   |  |
| 2.1.4               |   |   | nguage training in<br>achlehrzentrum  |   | aining program,<br>aluation reports   | GIZ  | 3.11.2016-<br>30.10.2017   | 5.000   |  |
| 2.1.5               | Develop and<br>trainers (ToT<br>Training Aca  | ) progran   | nt train the<br>n for the STIKK   |   | rainers qualified /<br>rtified  | STIKK,<br>NMFA   | 1.01<br>30.12.2017   | 20.000  |  |
| 2.1.6               | Market STIKI<br>national and  |   | ; Academy on<br>level   | Ma  | arketing material   | STIKK, GIZ   | 20.02.2016<br>/20.02.201<br>7/22.02.20<br>18   | 3.000   |  |
| Comme               | nts   | LiveMee<br>with uni<br>(MOOC)<br>IT comp<br>framewo<br>training<br>Please n | K Training Academy<br>eting, WebEx, adobe<br>versities in Kosovo as<br>such as Coursera, ec<br>anies as well as to th<br>ork of task 3.1 "Imple<br>program.<br>ote: The concept of t<br>rity and sustainability<br>cts. | conr<br>s we<br>IX or<br>e ac<br>emer<br>the S                                  | nect or other tools; s<br>Il as with providers o<br>r Open HPI; training o<br>ademia; technology<br>nt Export Information | trategic allian<br>of Massive Op<br>courses should<br>and market tr<br>n Service" nee<br>my is based o | ces should be o<br>en Online Courd<br>d be also open<br>ends identified<br>ed to be reflect<br>n the principle | established<br>rses<br>to externa<br>d in the<br>red in the<br>s of |  |
| Team                |   | n.a.  |   |   |   |  |  |   |  |
| Continu<br>Improve  |   | n.a.  |   |   |   |  |  |   |  |

### 5.1.2.2. Introduce enterprise capacity building & excellence program

| Task No  | ).   | 2.2   | Task name  | I                          | ntroduce enterprise  | capacity buildi   | ng & excellenc   | e program                                 |
|--|--|---|--|----------------------------|--|---|--|---|
| Priority   |  | 1   | Predecessor tasks  |                            | -  |   | % Complete   | 0%  |
| Descrip  | tion & rational  | е   |  |                            |  |   |  |   |
| compan<br>capacity<br>services<br>manage   | ies to further d<br>building & exc   | levelop th<br>cellence p<br>such as o<br>elected IT | ment of the Kosovo N<br>eir capacities and to<br>rogram will provide a<br>perations, finance, qu<br>enterprises<br>sovo IT company I wa                | inci<br>coi<br>ualit       | rease their internatio<br>mbination of speciali<br>ty, marketing & sales                         | nal competitiv<br>zed training, c<br>, etc. The prog              | veness. The en<br>oaching and co<br>ram will focus                     | terprise<br>onsulting<br>on the           |
| 0301 30  | ory deresuits  |   | n so that I can improv   |                            |  |   |  |   |
| <ul> <li>Acceptance criteria</li> <li>The enterprise capacity</li> <li>At least 10 Kosovo IT co<br/>building &amp; excellence p</li> </ul> |  |   |  |                            | nies have successfully   |   | -  | apacity                                   |
| Responsible STIKK<br>organization (lead)   |  |   |  |                            | Partner<br>organizations   | MZHE, MTI, (<br>EU  | GIZ, NMFA, SD  | C, USAID,                                 |
| Task sta   | Task start: 1.12.2016  |   |  |                            | Task finish  | 30.12.2018  |  |   |
| Overall budget (€) 336,000   |  |   |  |                            | Financial sources  | GIZ, NMFA, S  | DC, USAID, EU  |   |
| Task ac  | tivities:  |   |  |                            |  |   |  |   |
| No   | Activity   |   |  |                            | eliverables:   | Resp.   | Timing   | Budget                                    |
| 2.2.1  | Conduct nee<br>member con  |   | ment with STIKK  | Ne                         | eds assessment   | STIKK, GIZ  | 1.12.2016-<br>27.02.2017   | 5,000                                     |
| 2.2.2  | <ul> <li>Develop concept for the enterprise<br/>capacity building &amp; excellence program<br/>including selection criteria, focus areas,<br/>methods and tools and delivery model.</li> <li>Focus areas should include: <ul> <li>Corporate strategy</li> <li>Managing people (HR management)</li> <li>Finance &amp; accounting</li> <li>Operations (organization, project<br/>management, process management)</li> <li>Quality management</li> <li>IT management</li> <li>Entrepreneurship &amp; innovation</li> <li>Marketing &amp; sales</li> </ul> </li> </ul> |   |  | list<br>en<br>in           | eds assessment,<br>with IT<br>terprises enrolled<br>the program                                  | GIZ, NMFA   | 2.03<br>28.04.201<br>7   | 30,000                                    |
| 2.2.3  |  |   | event on enterprise<br>cellence program  | pre                        | esentation   | STIKK   | 15.05.201<br>7   | 1,000                                     |
| 2.2.4 Implement enterprise capacity building<br>& excellence program (15 companies)  |  |   |  |                            | nsulting reports,<br>aluation reports  | GIZ, NMFA,<br>USAID   | 1.06.2017-<br>30.12.2018   | 300,000                                   |
| Comme  | ents   | specializ<br>as well a<br>coordina<br>would ta      | erprise capacity build<br>ed training, coaching<br>s individually. The pr<br>ation with the activition<br>ke companies appro-<br>companies (pilot pro- | ano<br>ogra<br>es c<br>xim | d consulting services<br>am should be manag<br>if the STIKK Training i<br>ately 1 year. Calculat | which will be<br>ed by STIKK in<br>Academy. Com<br>ions are based | delivered clust<br>order to ensu<br>pleting the pr<br>l on a first coh | er-based<br>e close<br>ogram<br>ort of 15 |

|                           | program has been implemented it can be extended to other Kosovo IT companies in order to increase leverage and impact of the program |
|---------------------------|--|
| Team                      | n.a.   |
| Continuous<br>Improvement | n.a.   |

### 5.1.2.3. Establish National IT Quality Forum

| Task No  | 0.   | 2.3                            | Task name  | E         | Establish National IT (                                      | Quality Forum   |                               |              |
|--|--|--------------------------------|--|-----------|--|---|-------------------------------|--------------|
| Priority   | /  | 3                              | Predecessor tasks  | -         |  |   | % Complete                    | 0%           |
| Descrip  | otion & rational   | e                              |  |           |  |   |                               |              |
|  | is a key eleme<br>STIKK will:  | nt and di                      | ifferentiator within t   | he I      | Kosovo National IT S   | trategy. The  | National IT Qu                | ality Forun  |
| Prov   | vide the platfor   | m for de                       | veloping a National II   | Qı        | ality Policy   |   |                               |              |
|  | -  |                                | e importance of qual   |           | -  | -   |                               |              |
|  | ping Kosovo IT<br>Ility institutions   |                                | stakeholders understa  | and       | global best practices  | by collaborat   | ing with intern               | ational      |
|  |  |                                | o IT companies on h  |           |  | management  |                               |              |
|  |  |                                | l lessons learnt on qu   |           | -  | 11.   |                               |              |
|  |  |                                | panies abreast of the<br>ality-related topics s                |           | -  |   |                               |              |
|  |  |                                | architectures throug   |           |  |   |                               | i, training: |
| User st  | ory & results  | informa                        | sovo IT industry stake<br>ation on quality mana<br>IT industry |           |  |   |                               | ality in the |
| Acceptance criteria<br>& indicators  The National IT Quality I MoUs with at least 3 int At least 3 information er<br>topics conducted / year |  |                                | Js with at least 3 inte<br>east 3 information ev               | rna       | tional IT quality man  | agement insti   | tutions signed                | agement      |
| Respon<br>organiz  | nsible<br>zation (lead)  | STIKK                          |  |           | Partner<br>organizations                                     | Universities, Ministry of Economic<br>Development, IPAK, Donors |                               |              |
| Task sta   | art:   | 1.01.202                       | 17   |           | Task finish  | 16.09.2018  |                               |              |
| Overall  | l budget (€)   | 12,000                         |  |           | Financial sources  | EU, USAID, NMFA, GIZ, SDC                                       |                               |              |
| Task ac  | ctivities:   |                                |  |           |  |   |                               |              |
| No   | Activity   |                                |  | D         | eliverables:   | Resp.   | Timing                        | Budget       |
| 2.3.1  | Establish Na<br>STIKK  | lational IT Quality Forum with |  | co<br>res | ganizational<br>ncept (members,<br>sponsibilities,<br>ogram) | STIKK, GIZ  | 01.01.2017<br>-<br>02.02.2017 | 2,000        |
| 2.3.2  |  |                                | peration with international<br>nagement institutions           |           | oUs  | STIKK, GIZ  | 04.02-<br>10.02.2017          | 3,000        |
| 2.3.3  | Organize information events, seminars<br>and roundtable sessions on quality<br>management topics in close cooperation<br>with the STIKK Training Academy |                                | Programs and presentations                                     |           | STIKK,<br>NMFA, GIZ  | 7.01.2017<br>/15.05.201<br>7<br>/15.09.201<br>7 /               | 7,000                         |              |

| Task No.                  |                               | 2.3  | Task name | Establish National IT C | IT Quality Forum  |  |  |  |
|---------------------------|-------------------------------|------|-----------|-------------------------|---|--|--|--|
|                           |                               |      |           |                         |   | 7.01.2018 /<br>16.05.2018<br>/<br>16.09.2018 |  |  |
| Comments                  | Mellon University, ISTQB, ISC |      |           |                         | tion partners: Software Engineering Institute (SEI) of Carnegie<br>IEC JTC1 Joint Technical Committee.<br>Forum of NASSCOM: http://www.nasscom.in/overview-4. |  |  |  |
| Team                      |                               | n.a. |           |                         |   |  |  |  |
| Continuous<br>Improvement |                               | n.a. |           |                         |   |  |  |  |

### 5.1.2.4. Provide QM Manual & Maturity Assessment Tool

| Task No  | ).   | 2.4            | Task name  | F                        | Provide QM Manual        | & Maturity Ass                    | essment Tool        |               |  |
|--|--|----------------|--|--------------------------|--------------------------|-----------------------------------|---------------------|---------------|--|
| Priority   |  | 2              | Predecessor tasks  | -                        |                          |                                   | % Complete          | 0%            |  |
| Descrip  | tion & rationa   | e              |  |                          |                          |                                   |                     |               |  |
| while th   | e manual will  | provide tl     | companies with a too<br>nem with an overview<br>ine on how to introd | w or                     | n relevant certification | on schemes an                     | d methodolog        | ies in the IT |  |
| User sto   | User story & results As a Kosovo IT company I order to introduce quality |                |  |                          |                          |                                   | turity Assessm      | ent Tool in   |  |
| Accepta  | ance criteria  | The            | QM Manual has bee  | n ela                    | aborated                 |                                   |                     |               |  |
| & indica   | & indicators • The Maturity Assessm                                      |                |  |                          | •                        |                                   |                     |               |  |
|  | <ul> <li>The QM Manual and the member companies</li> </ul>               |                |  |                          | turity Assessment To     | ol have been o                    | disseminated t      | o STIKK       |  |
| Responsible STIKK<br>organization (lead)   |  |                |  | Partner<br>organizations | Universities,            | Universities, MZHE, KIESA, Donors |                     |               |  |
| Task sta   | art:   | 09.06.2        | 017  |                          | Task finish              | 15.09.2017                        |                     |               |  |
| Overall  | budget (€)   | 5,000          |  |                          | Financial sources        | GIZ                               |                     |               |  |
| Task ac  | tivities:  |                |  |                          |                          |                                   |                     |               |  |
| No   | Activity   |                |  | D                        | eliverables:             | Resp.                             | Timing              | Budget        |  |
| 2.4.1  | Elaborate QI<br>generic versi  |                | l (customization of  | QN                       | / Manual                 | GIZ                               | 09.06<br>15.06.2017 | 2,000         |  |
| 2.4.2  | Develop Mat<br>(customizati  |                | essment Tool<br>eric version)  | Ma<br>To                 | aturity Assessment<br>ol | GIZ                               | 16.06<br>30.06.2017 | 2,000         |  |
| 2.4.3 Presentation and dissemination of QM<br>Manual and Maturity Assessment Tool<br>to STIKK member companies |  |                | Pre  | esentation               | STIKK                    | 15.09.2017                        | 1,000               |               |  |
| Comme  | ents   | The QM testing | Manual should also   | take                     | into consideration a     | agile methodol                    | ogies as well a     | s software    |  |
| Team n.a.  |  |                |  |                          |                          |                                   |                     |               |  |

| Task No.                  | 2.4  | Task name | Provide QM Manual & Maturity Assessment Tool |
|---------------------------|------|-----------|--|
| Continuous<br>Improvement | n.a. |           |  |

### 5.1.2.5. Establish quality management & certification program

| Task No   |  | 2.5  | Task name   | E  | stablish quality man             | agement & ce  | rtification prog              | ram        |
|---|--|--|---|--|----------------------------------|---------------|-------------------------------|------------|
| Priority  |  | 2  | Predecessor tasks   | 2  | 2.3.1 National IT Qua            | lity Forum    | % Complete                    | 0%         |
| Descrip   | tion & rationa                         | le   |   |  |                                  |               |                               |            |
| certificat  | tion according                         | g to inte                                      | f this program will<br>rnational standards<br>ification as well as th | at   | an affordable pric               | e. The progra | am will includ                |            |
| User story & results As a Kosovo IT company I<br>order to introduce QM in<br>international standards  |  |  |   |  |                                  |               |                               | ogram in   |
| Acceptance criteria<br>& indicators<br>At least 15 Kosovo IT of<br>internationally recogn   |  |  |   |  | nies have been certif            |               |                               | or another |
| Respon:<br>organiza   | sible<br>ation (lead)                  | STIKK  |   |  | Partner<br>organizations         | MZHE, EU, U   | SAID, GIZ                     |            |
| Task start:         3.02.2017   |  |  |   | Task finish                                | 30.12.2018                       |               |                               |            |
| Overall budget (€) 234,000  |  |  |   |  | Financial sources                | EU, USAID     |                               |            |
| Task act  | ivities:                               |  |   |  |                                  |               |                               |            |
| No  | Activity                               |  |   | D  | eliverables:                     | Resp.         | Timing                        | Budget     |
| 2.5.1   | including sel                          | t & certifi<br>ection cri<br>tion mode         | cation program  | Pro  | ogram concept                    | EU, GIZ       | 3.02<br>23.02.2017            | 8,000      |
| 2.5.2   | Conduct info<br>collaboration<br>Forum |  | event in<br>tional IT Quality   | Presentation                               |                                  | STIKK         | 15.09.2017                    | 1,000      |
| 2.5.3   | Implement of certification             |  | inagement &   |  | nsulting reports,<br>rtification | EU, GIZ       | 24.02.2017<br>-<br>30.12.2018 | 225,000    |
| Comments The cluster-based implement<br>certification by bundling res<br>(Brazilian Software Process)<br>The quality management &<br>the STIKK Training Academy |  | tion by bundling reso<br>n Software Process Ir | npr   | es and using synergio<br>ovement Program). | es. Best practio                 | e example: M  | PS.BR                         |            |
| Team  |  | n.a.   | 0   |  |                                  |               |                               |            |
| Continu<br>Improve  |  | n.a.   |   |  |                                  |               |                               |            |

### 5.1.2.6. Elaborate manual on corporate financing

| Task No   |  | 2.6        | Task name   | E | laborate manual on                           | corporate fina          | ncing              |             |  |
|---|--|------------|---|---|--|-------------------------|--------------------|-------------|--|
| Priority  |  | 3          | Predecessor tasks                                   | - |  |                         | % Complete         | 0%          |  |
| Descrip   | tion & rational                          | e          |   |   |  |                         |                    |             |  |
|   |  |            | ncing will provide K<br>ort facilities and relev    |   | vo IT companies wi<br>institutions           | ith a guidelin          | e on corporat      | e financing |  |
| User sto  | ory & results                            |            |   |   | to use the manual on<br>obtain financing for |                         | ancing in orde     | r to find   |  |
| Acceptance criteria<br>& indicators• The manual on corporate financing has been elaborated<br>• The manual on corporate financing has been disseminated to STIKK member companies |  |            |   |   |  | companies               |                    |             |  |
|   | Responsible STIKK<br>organization (lead) |            |   |   | Partner<br>organizations                     | Ministry of Finance, EU |                    |             |  |
| Task sta  | start: 1.10.2016                         |            |   |   | Task finish                                  | 20.01.2017              |                    |             |  |
| Overall   | budget (€)                               | 9,000      |   |   | Financial sources                            | EU                      |                    |             |  |
| Task act  | tivities:                                |            |   |   |  |                         |                    |             |  |
| No  | Activity                                 |            |   | D | eliverables:                                 | Resp.                   | Timing             | Budget      |  |
| 2.6.1   | Elaborate ma                             | anual on o | corporate financing                                 |   | anual on corporate<br>ancing                 | EU                      | 1.10<br>30.12.2016 | 8,000       |  |
| 2.6.2   | Present and corporate fir                |            | disseminate manual on<br>ancing                     |   | esentation                                   | STIKK                   | 20.01.2017         | 1,000       |  |
| Comments Close cooperation with devel   |  |            | elopment banks (EBRD, World Bank, KFW) is advisable |   |  |                         |                    |             |  |
| Team  |  | n.a.       |   |   |  |                         |                    |             |  |
|   | Continuous n.a.<br>Improvement           |            |   |   |  |                         |                    |             |  |

### 5.1.2.7. Implement access to finance program

| Task No.   | 2.7  | Task name  | Implement access to f | inance progra | m          |    |  |  |
|--|--|--|-----------------------|---------------|------------|----|--|--|
| Priority   | 2  | Predecessor tasks  | -                     |               | % Complete | 0% |  |  |
| Description & rational   | е  |  |                       |               |            |    |  |  |
| <ul> <li>This task will provide Kosovo IT companies with access to finance based on several key elements including:</li> <li>Special grants for training &amp; certification</li> <li>Kosovo IT Enterprise Development Fund with special, low-interest loan schemes</li> </ul> |  |  |                       |               |            |    |  |  |
| User story & results   | ser story & results As a Kosovo IT company I want to use the access to finance program in order to finance training and certification activities as well as business operations of my enterprise |  |                       |               |            |    |  |  |
| Acceptance criteria<br>& indicators  | <ul><li>At le cert</li><li>The</li></ul>   | <ul> <li>At least 3 companies have successfully applied for special grants for training &amp; certification</li> <li>The Kosovo IT Enterprise Development Fund is fully operational</li> </ul> |                       |               |            |    |  |  |
| Responsible  | Ministry   | Ministry of Finance (MF) Partner MTI, EU, USAID  |                       |               |            |    |  |  |

| Task No                              | ).   | 2.7  | Task name                                      |   | mplement access to     | finance progra  | am                            |           |
|--------------------------------------|--|--|--|---|------------------------|-----------------|-------------------------------|-----------|
| organiz                              | ation (lead)   |  |  |   | organizations          |                 |                               |           |
| Task sta                             | art:   | 12.01.2  | .017   |   | Task finish            | 30.12.2018      |                               |           |
| Overall                              | budget (€)   | 1,167,00   | 00   |   | Financial sources      | EU, USAID       |                               |           |
| Task activities:                     |  |  |  |   |                        |                 |                               |           |
| No                                   | Activity   |  |  | D   | eliverables:           | Resp.           | Timing                        | Budget    |
| 2.7.1                                | Develop special grant scheme for<br>training & certification (including<br>application documents, terms and<br>conditions)         |  |  | Pr  | oduct description      | EU, MTI         | 12.01<br>19.01.2017           | 8,000     |
| 2.7.2                                | 2.7.2 Elaborate concept for Kosovo IT<br>Enterprise Development Fund (including<br>application documents, terms and<br>conditions) |  |  | Concept for Kosovo IT<br>Enterprise<br>Development Fund |                        | EU, USAID       | 20.01<br>28.01.2017           | 8,000     |
| 2.7.3                                | Conduct info<br>finance prog<br>companies  |  | event on access to<br>cosovo IT                | Pr  | esentation material    | <b>STIKK</b>    | 29.01.2017                    | 1,000     |
| 2.7.4                                |  | training &   | ge special grant<br>& certification<br>grants) |   | pplication<br>ocuments | EU, MTI         | 30.01.2017<br>-<br>30.12.2018 | 150,000   |
| 2.7.5                                |  | blish and manage the Kosovo IT<br>prprise Development Fund (including<br>get for Fund) |  |   | pplication<br>ocuments | EU, USAID       | 24.04.2017<br>-<br>30.12.2018 | 1,000,000 |
| Comments Close cooperation with deve |  |  | lopr   | nent banks (EBRD, W                                     | orld Bank, KF          | W) is advisable |                               |           |
| Team                                 |  | n.a.   |  |   |                        |                 |                               |           |
| Continuous n.a.<br>Improvement       |  |  |  |   |                        |                 |                               |           |

## 5.1.2.8. Introduce tax incentives for investments into continuing education and training

| Task No.                            | 2.8         | Task name   | Introduce tax incentives for investments into continuin education and training |                |                 |  |  |  |
|-------------------------------------|-------------|---|--|----------------|-----------------|--|--|--|
| Priority                            | 2           | Predecessor tasks   | - % Complete 0%  |                |                 |  |  |  |
| Description & rationale             |             |   |  |                |                 |  |  |  |
| This task will provide K            | losovo IT ( | companies with incenti  | ves to invest into cont  | inuing educati | on and training |  |  |  |
| User story & results                |             | As a Kosovo IT company I want to use tax incentives so I can invest more into continuing education and training     |  |                |                 |  |  |  |
| Acceptance criteria<br>& indicators |             | <ul> <li>Tax incentives for investments into continuing education and training have been<br/>implemented</li> </ul> |  |                |                 |  |  |  |
| Responsible<br>organization (lead)  | MF          | VIF Partner STIKK, NMFA, GIZ<br>organizations   |  |                |                 |  |  |  |
| Task start:                         | 02.02.2     | 017   | Task finish  | 29.05.2017     |                 |  |  |  |
| Overall budget (€)                  | 3,000       | Financial sources MF, NMFA  |  |                |                 |  |  |  |

| Task No.                       |                           | 2.8 Task name |  |                 | Introduce tax incentives for investments into continuing education and training |                     |       |  |  |
|--------------------------------|---------------------------|---------------|--|-----------------|---|---------------------|-------|--|--|
| Task act                       | ivities:                  |               |  |                 |   |                     |       |  |  |
| No                             | Activity                  |               | Deliverables:                            | Resp.           | Timing  | Budget              |       |  |  |
| 2.8.1                          | Develop con<br>incentives |               |  | Concept / draft | NMFA  | 02.02<br>06.02.2017 | 3,000 |  |  |
| 2.8.2                          |                           |               | ves for investments<br>tion and training | law / decree    | Ministry of<br>Finance  | 9.02<br>29.05.2017  | -     |  |  |
| Comme                          | nts                       | -             |  |                 |   |                     |       |  |  |
| Team                           | Team n.a.                 |               |  |                 |   |                     |       |  |  |
| Continuous n.a.<br>Improvement |                           |               |  |                 |   |                     |       |  |  |

#### 5.1.2.9. Introduce National IT Award

| Task No.   |   | 2.9 | Task name                                   | 1                   | ntroduce National IT   | Award  |                   |         |
|--|---|-----|---|---------------------|--|--|-------------------|---------|
| Priority   |   | 2   | Predecessor tasks                           |                     |  |  | % Complete        | 0%      |
| Descript   | ion & rational  | e   |   | _                   |  |  |                   |         |
| company  |   |     | e the awareness of<br>y. In addition to tha |                     |  |  |                   |         |
| User story & results As a Kosovo IT industry stakeholder I want to use the National IT Award to raise th awareness of the IT community and the public on the importance of company exc and quality |   |     |   |                     |  |  |                   |         |
| Acceptance criteria<br>& indicators • At least one article or news coverage in one of Kosovo's leading media (newspaper,<br>magazine, TV) / year.  |   |     |   |                     |  | oaper,   |                   |         |
| Responsible STIKK<br>organization (lead)   |   |     |   |                     | Partner<br>organizations   | MZHE, ASHI                                       |                   |         |
| Task start:         01.12.2016   |   |     |   | Task finish         | 08.12.2018   |  |                   |         |
| Overall budget (€) 11,000  |   |     |   |                     | Financial sources  | Ministry of E                                    | conomic Deve      | opment  |
| Task act   | ivities:  |     |   |                     |  |  |                   |         |
| No   | Activity  |     |   | D                   | eliverables:   | Resp.  | Timing            | Budget  |
| 2.9.1  | Establish aw<br>including log<br>criteria   |     | ational IT Award<br>nd selection            | Со                  | ncept  | STIKK,<br>MZHE                                   | 1.12<br>5.12.2016 | 2,000   |
| 2.9.2  | 9.2 Selection of candidates and<br>implementation of award ceremony<br>including PR |     | Article / news<br>coverage                  |                     | STIKK,<br>MZHE   | 08.12.2016<br>/<br>08.12.2017<br>/<br>08.12.2018 | 9,000             |         |
| Comments The focus concerning the self<br>excellence (particularly HR m<br>The National IT Award should<br>governmental as well as med<br>IT Award logo for marketing                              |   |     |   | ana<br>l be<br>ia p | gement) and quality.<br>awarded in the fram<br>resence. The winner | ework of an o<br>should be ent                   | fficial event wi  | th high |

| Task No.                  | 2.9  | Task name | Introduce National IT Award |
|---------------------------|------|-----------|-----------------------------|
| Team                      | n.a. |           |                             |
| Continuous<br>Improvement | n.a. |           |                             |

### 5.1.2.10. Implement monthly newsletter on latest technology trends

| Task No  |  | 2.10       | Task name                             | I                                | mplement monthly n                           | ewsletter on l               | atest technolo                | gy trends |
|--|--|------------|---------------------------------------|----------------------------------|--|------------------------------|-------------------------------|-----------|
| Priority   |  | 3          | Predecessor tasks                     | -                                |  |                              | % Complete                    | 0%        |
| Descript   | ion & rational                                     | e          |                                       |                                  |  |                              | 1                             |           |
| trends ir  |  |            |                                       |                                  | e provided with accu<br>ned decisions on the |                              |                               |           |
| User story & results As a Kosovo IT company I want to get access to information on latest technology trends order to take informed decisions concerning technologies and corresponding business activities of my company |  |            |                                       |                                  |  |                              |                               |           |
| Acceptance criteria & The monthly newsletter on latest technology trends has been successfully implemented & indicators  |  |            |                                       |                                  |  | olemented                    |                               |           |
| Responsible STIKK<br>organization (lead)   |  |            |                                       |                                  | Partner<br>organizations                     | Universities, NMFA, GIZ, SDC |                               |           |
| Task start: 01.09.2017   |  |            |                                       | Task finish                      | 30.12.2018                                   |                              |                               |           |
| Overall  | budget (€)   | 17,000     |                                       |                                  | Financial sources                            | NMFA, GIZ, S                 | DC                            |           |
| Task act   | ivities:   |            |                                       |                                  |  |                              |                               |           |
| No   | Activity   |            |                                       | D                                | eliverables:                                 | Resp.                        | Timing                        | Budget    |
| 2.10.1   |  | ntent stru | ewsletter concept<br>cture, template, | Technology<br>newsletter concept |  | STIKK, GIZ                   | 01.09<br>07.09.2017           | 2,000     |
| 2.10.2   | Implement technology newsletter<br>(monthly basis) |            | y newsletter                          | Monthly newsletters              |  | STIKK                        | 08.09.2017<br>-<br>30.12.2018 | 15,000    |
| Comments A professional newsletter ed<br>and the newsletter should b<br>newsletter should be also in   |  |            | e de                                  | signed as a STIKK ser            | vice; at a later                             |                              |                               |           |
| Team   |  | n.a.       |                                       |                                  |  |                              |                               |           |
| Continu<br>Improve   |  | n.a.       |                                       |                                  |  |                              |                               |           |

### 5.1.3. Strategic Pillar 3: Export Promotion

### 5.1.3.1. Implement Export Information Service

| Task No.   |  | 3.1   | Task name  |  | Implement Export In  | formation Serv  | vice  |   |  |
|--|--|---|--|--|--|---|---|---|--|
| Priority   |  | 2   | Predecessor tasks  |  | -  |   | % Complete  | 40%   |  |
| Descript   | ion & rational   | е   |  |  |  |   |   |   |  |
| to date i<br>conduct<br>planning<br>The Expo<br>Pro<br>info<br>Ser<br>Kee<br>war<br>Pro<br>ma<br>User sto  | nformation or<br>professional r<br>and impleme<br>ort Informatio<br>viding Kosovo<br>ormation on p<br>ving as a mark<br>ping compani<br>rning system"<br>viding market<br>rketing)<br>ry & results | n potentia<br>market re<br>enting the<br>n Service<br>IT compa<br>otential e<br>cet intellig<br>des informat<br>As a Kos<br>potentia<br>plannin | im-sized IT/software of<br>al export markets. Oft<br>search on internation<br>ir export activities.<br>(EIS) of STIKK will add<br>anies (particularly STIF<br>xport markets<br>gence tool for IT firms<br>hed on latest technolo<br>ion for strategic plant<br>sovo IT company I wa<br>al export markets (ma<br>g and implementing n | en<br>al r<br>lres<br>KK r<br>nors<br>nors<br>nors<br>nors<br>nors<br>nors | they neither have they neither have they neither have the narkets. However, IT is this issue. The mainember companies) as well as business to g and joint export maine have access to accest intelligence) so that company's export accest to accest the second secon | e resources no<br>firms need th<br>n objectives of<br>with detailed,<br>rends on intern<br>arketing activit<br>urate and up t<br>t I have the ne<br>tivities. | or the capabilit<br>is information<br>this cluster se<br>accurate and<br>national marke<br>ies of STIKK (c<br>o date informa<br>ecessary inform | ies to<br>for<br>ervice are:<br>up to date<br>ets ("early<br>luster<br>ation on |  |
| <ul> <li>Acceptance criteria</li> <li>The Export Information Service has been successfully implemented by STIKK</li> <li>At least 20 IT companies / year make use of the Export Information Service (participation in workshops, downloads of market analysis from STIKK Website / SharePoint, information requests submitted to STIKK)</li> </ul> |  |   |  |  |  |   |   |   |  |
| Respons<br>organiza  | ible<br>tion (lead)  | (lead)  |  |  | Partner IPAK, GIZ, NMFA<br>organizations   |   |   |   |  |
| Task star  | rt:  | 01.01.2   | 016  |  | Task finish  | 30.12.2018  |   |   |  |
| Overall b  | oudget (€)   | 30,000  |  |  | Financial sources  | GIZ, NMFA   |   |   |  |
| Task acti  | vities:  |   |  |  |  |   |   |   |  |
| No   | Activity   |   |  | De   | eliverables:   | Resp.   | Timing  | Budget  |  |
| 3.1.1.   | Develop cor  | ncept for 1   | the EIS  | EIS  | concept  | GIZ   | 01.01<br>28.01.2016   | 3,000   |  |
| 3.1.2.   | Implement 1  | the EIS   |  |  | market analysis for<br>CH, NO, UK, NL  | GIZ, NMFA   | 01.01.14-<br>30.12.201<br>8   | 20,000  |  |
| 3.1.3  | Develop and<br>Customer Si   | -   | ent Export<br>mary research)   |  | uestionnaire,<br>pert database   | GIZ   | 2.06<br>31.12.201<br>6  | 7,000   |  |
| Comments Primary export target market<br>also have access to market i<br>use it for export promotion<br>interrelated with the Export   |  | ve access to market in<br>or export promotion a   | tel<br>ctiv  | igence / market ana<br>vities; The B2B Expor                               | ysis generated   | d by the EIS in   | order to  |   |  |
| Team n.a.  |  |   |  |  |  |   |   |   |  |

| Task No.                  | 3.1  | Task name | Implement Export Information Service |
|---------------------------|------|-----------|--------------------------------------|
| Continuous<br>Improvement | n.a. |           |                                      |

#### 5.1.3.2. Implement B2B Export Promotion Service

| Task No   |   | 3.2  | Task name  |  | Implement B2B Expo  | ort Promotion   | Service  |                 |
|---|---|--|--|--|---|---|--|-----------------|
| Priority  |   | 2  | Predecessor tasks  |  | -   |   | % Complete   | 40%             |
| Descrip   | tion & rational   | е  |  |  |   |   |  |                 |
| compani<br>Genu<br>Pron<br>Mari<br>expo<br>Prov<br>thro<br>Supp   | erate additiona<br>note cooperati<br>keting and pos<br>ort promotion<br>iding market in<br>ugh the requir<br>porting potent | g and inte<br>al busines<br>ion betwe<br>itioning c<br>activities<br>ntelligenc<br>ement pr<br>ial interna | ice (EPS) will be desi<br>rnational business de<br>s opportunities and l<br>een STIKK member co<br>f STIKK and its memb<br>e on demand structu<br>ofiles stated in the bu<br>stional clients in iden<br>s (One-Stop-Shop for | evel<br>busi<br>ompoer f<br>ires,<br>usin<br>tifyi | opment. The main o<br>ness leads for STIKK<br>anies and internation<br>irms on internationa<br>technical requireme<br>ess leads<br>ng suitable cooperat | bjectives of th<br>member comp<br>nal business pa<br>Il target marke<br>ents and trends | e service are:<br>panies<br>artners<br>ets through dire<br>s in target mar | ect B2B<br>kets |
| User story & results<br>As a Kosovo IT company I we business development so to company and increase export Acceptance criteria<br>& indicators<br>- At least 6 international STIKK member company |   |  |  |  | can establish interna<br>iles.<br>Service has been suc  | tional busines  | s partnerships<br>emented by ST  | for my<br>KK    |
|   |   | <ul> <li>At let</li> </ul>   | ast 2 contracts / yea  | r ar   | e signed by STIKK me  | mber compan   | ies based on th  | ne EPS          |
| Responsible STIKK<br>organization (lead)  |   |  |  | Partner<br>organizations                           | KIESA, GIZ, N<br>Chambers of  | IMFA, SDC, USA<br>Commerce  | AID, WKO,  |                 |
| Task sta  | irt:  | 01.05.2  | 016  |  | Task finish   | 30.12.2018  |  |                 |
| Overall   | budget (€)  | 45,000   |  |  | Financial sources   | GIZ, NMFA   |  |                 |
| Task act  | tivities:   | •  |  |  |   |   |  |                 |
| No  | Activity  |  |  | D  | eliverables:  | Resp.   | Timing   | Budget          |
| 3.2.1   | Develop con   | cept for t   | he EPS   | EP   | S concept   | GIZ   | 1.05<br>9.05.2016  | 4,000           |
| 3.2.2   | Capacity bui<br>manager)  | Iding for S  | TIKK (service  | Tra<br>too   | aining documents,<br>ols  | GIZ, NMFA   | 1.10<br>28.11.2016   | 2,000           |
| 3.2.3   | Establish a C<br>and managir  |  | m for generating<br>ss leads   | CR   | M system  | GIZ, NMFA   | 15.10<br>28.11.2016  | 4,000           |
| 3.2.4   | Establish STI<br>(CPF) for fina   |  | r Promotion Fund<br>EPS  |  | F framework<br>reement signed   | STIKK, GIZ  | 1.10<br>3.10.2016  | 1,000           |
| 3.2.5   | Marketing a   | ng and positioning the EPS   |  | Ma   | arketing material   | STIKK, GIZ  | 12.05<br>31.12.201<br>6  | 4,000           |
| 3.2.6   | Implementin   | Implementing the EPS   |  |  | least 5 business<br>ds / year   | STIKK, GIZ,<br>NMFA   | 12.05.201<br>6-<br>30.12.201<br>8  | 30,000          |

| Task No.                  | 3.2  | Task name  | Implement B2B Export Promotion Service |  |  |  |  |  |
|---------------------------|------|--|--|--|--|--|--|--|
| Comments                  |      | ossible service extension for domestic market development (see pillar 4); CRM system nould be based on FOSS solution / freeware to minimize costs. |  |  |  |  |  |  |
| Team                      | n.a. | n.a.   |  |  |  |  |  |  |
| Continuous<br>Improvement | n.a. |  |  |  |  |  |  |  |

### 5.1.3.3. Establish export coaching & consulting program

| Task No  |   | 3.3  | Task name  | E   | stablish export coacl   | ning & consult                    | ing program                      |                          |
|--|---|--|--|---|---|-----------------------------------|----------------------------------|--------------------------|
| Priority   |   | 2  | Predecessor tasks  |   | -   |                                   | % Complete                       | 0%                       |
| Descript   | tion & rational                                       | e  |  |   |   |                                   |                                  | ·                        |
| advisory<br>Promotio<br>delivered  | services on h<br>on Service wh<br>d individually o    | ow to inc<br>iich are c<br>on the en             | rease their exports.<br>luster-based service   | Con<br>s of                               | I provide Kosovo IT<br>trary to the Export I<br>STIKK, the export o<br>program will allow | nformation Se<br>coaching & co    | ervice and the<br>onsulting prog | B2B Expor<br>ram will be |
| User sto   | ory & results   |  | I can further improve  |   | o participate in the e<br>export capabilities i   |                                   |                                  |                          |
| Acceptance criteria<br>& indicatorsThe export coaching &<br>operational)At least 5 Kosovo IT con<br>consulting program |   |  |  |   |   |                                   |                                  |                          |
| Responsible STIKK, MZHE organization (lead)  |   |  |  | Partner KIESA, GIZ, NMFA<br>organizations |   |                                   |                                  |                          |
| Task start: 15.01.2017   |   |  |  | Task finish                               | 30.12.2018  |                                   |                                  |                          |
| Overall  | budget (€)  | 90,000   |  |   | Financial sources   | GIZ, NMFA,                        | SDC, USAID                       |                          |
| Task act   | ivities:  |  |  |   |   |                                   |                                  |                          |
| No   | Activity  |  |  | De  | eliverables:  | Resp.                             | Timing                           | Budget                   |
| 3.3.1  | & consulting methodolog audit, export                 | program<br>y and too<br>t business<br>rket acces | he export coaching<br>including<br>Is (admission,<br>plan, capacity<br>ss & business | EC  | CP concept  | GIZ                               | 15.01<br>11.02.2017              | 8,000                    |
| 3.3.2  | Capacity building for STIKK (service manager)         |  | Training documents,<br>tools   |   | STIKK, GIZ,<br>NMFA   | 12.02<br>25.02.201<br>7           | 2,000                            |                          |
| 3.3.3  | Implementing the export coaching & consulting program |  |  | aluation forms of IT<br>mpanies           | STIKK, GIZ,<br>NMFA   | 26.02.201<br>7-<br>30.12.201<br>8 | 80,000                           |                          |
| Comme  | nts   | admissio   | on criteria need to be   | def                                       | viding coaching and c<br>ined; a certain perce<br>tionally this task coul                 | ntage of the E                    | CCP costs sho                    | uld be                   |

| Task No.                  | 3.3      | Task name  | Establish export coaching & consulting program |  |  |  |  |
|---------------------------|----------|--|--|--|--|--|--|
|                           | enterpri | nterprise capacity building & excellence program |  |  |  |  |  |
| Team                      | n.a.     | .a.  |  |  |  |  |  |
| Continuous<br>Improvement | n.a.     |  |  |  |  |  |  |

### 5.1.3.4. Develop and implement trade fair participation program

| Task No.   |  | 3.4                  | Task name                                 | [   | Develop and impleme   | ent trade fair p                  | articipation pr                 | ogram       |  |
|--|--|----------------------|---|---|---|-----------------------------------|---------------------------------|-------------|--|
| Priority   |  | 2                    | Predecessor tasks                         |   | -   |                                   | % Complete                      | 20%         |  |
| Descript   | ion & rational   | е                    |   |   |   |                                   |                                 |             |  |
|  |  |                      | important activity for business developme |   | ne Kosovo IT industry   | in terms of ir                    | nternational b                  | randing and |  |
| User sto   | ry & results   | internat<br>As a Kos | tional visibility and bi                  | rand<br>ant f                                   | T industry I want to p<br>ding of the IT industry<br>to participate in relev<br>ment. | /.                                |                                 |             |  |
| Acceptance criteria<br>& indicators• Trade fair participation p<br>• At least 5 Kosovo IT com<br>• At least 2 contracts gene |  |                      |   |   | es have participated  | -                                 |                                 |             |  |
| Responsible STIKK<br>organization (lead)   |  |                      |   |   | Partner<br>organizations  | KIESA, GIZ, NMFA, SDC, USAID, EU  |                                 |             |  |
| Task start: 01.04.2016   |  |                      |   | Task finish                                     | 30.12.2018  |                                   |                                 |             |  |
| Overall budget (€) 80,000  |  |                      |   |   | Financial sources   | IPAK, GIZ, NN                     | IPAK, GIZ, NMFA, SDC, USAID, EU |             |  |
| Task act   | ivities:   |                      |   |   |   |                                   |                                 |             |  |
| No   | Activity   |                      |   | D   | eliverables:  | Resp.                             | Timing                          | Budget      |  |
| 3.4.1  | Elaborate tra<br>program incl  |                      | articipation<br>ancing scheme             |   | ade fair<br>rticipation program   | STIKK,<br>KIESA, GIZ              | 1.04<br>4.04.2016               | 2,000       |  |
| 3.4.2  | Implement t<br>managemen   | -                    | n trade fair<br>iness development         | Tra   | aining material   | STIKK, GIZ                        | 7.04<br>14.04.2016              | 3,000       |  |
| 3.4.3  | Implement trade fair participation program   |                      | fro                                       | aluation forms<br>om trade fair<br>rticipations | STIKK,<br>KIESA   | 20.01.201<br>7-<br>30.12.201<br>8 | 75,000                          |             |  |
| Comme  | Comments Selection of relevant trade fa<br>industry; well-balanced mixt<br>and smaller specialized trade |                      |   | ıre   | of large-scale interna  | tional trade fa                   | irs (e.g. CeBIT                 |             |  |
| Team   |  | n.a.                 |   |   |   |                                   |                                 |             |  |
| Continuous n.a.<br>Improvement   |  |                      |   |   |   |                                   |                                 |             |  |

### 5.1.3.5. Implement B2B match-making events

| Task No.  |  | 3.5      | Task name   | I                 | mplement B2B mach   | -making event              | S   |          |
|---|--|----------|---|-------------------|---|----------------------------|---|----------|
| Priority  |  | 1        | Predecessor tasks   |                   | -   |                            | % Complete  | 0%       |
| Descript  | ion & rational   | e        |   |                   |   |                            |   |          |
| target ma   | arkets and to  | generate | an important means<br>concrete business op<br>iternational cooperat | ороі              | rtunities for Kosovo I  | T companies.               | Furthermore, s  |          |
| User sto  | ry & results   |          | sovo IT company I wa<br>ith potential clients, o<br>sales.          |                   |   | -                          |   |          |
| <ul> <li>Acceptance criteria</li> <li>At least 6 B2B match-m<br/>markets (DACH, NO, Uk</li> <li>At least 1 B2B match-m<br/>with Norwegian and Ge</li> </ul> |  |          |   |                   | ; event has been con  |                            |   | -        |
| Responsible STIKK<br>organization (lead)  |  |          |   |                   | Partner<br>organizations  | KIESA, NMFA<br>SDC, WKO, U | , GIZ, German<br>SAID, EU   | Embassy, |
| Task start:         1.10.2016   |  |          |   | Task finish       | 5.12.2018   |                            |   |          |
| Overall budget (€) 54,000   |  |          |   | Financial sources | KIESA, NMFA, GIZ, German Embassy,<br>SDC, WKO, USAID, EU          |                            |   |          |
| Task act  | ivities:   |          |   |                   |   |                            |   |          |
| No  | Activity   |          |   | De                | eliverables:  | Resp.                      | Timing  | Budget   |
| 3.5.1   | Organize and<br>match-makir  | -        | ent at least 6 B2B  | pre<br>pa         | ogramme,<br>esentations, list of<br>rticipants,<br>aluation forms | STIKK,<br>KIESA            | 3.10.2016 /<br>1.05.2017 /<br>2.10.2017 /<br>2.05.2018 /<br>31.10.2018<br>/ 5.12.2018 | 42,000   |
| 3.5.2   | Organize and implement at least 1 B2B<br>match-making event in Kosovo in close<br>cooperation with Norwegian and<br>German partners (trilateral match-<br>making event with Norwegian, Kosovo<br>and German companies; focus topics:<br>e.g. e-energy, nearshoring, OSS, etc.) |          |   | pre<br>pa         | ogramme,<br>esentations, list of<br>rticipants,<br>aluation forms | STIKK,<br>NMFA, GIZ        | 01.10<br>10.10.201<br>6   | 12,000   |
| Comme   | nts  |          | Combination with KC<br>vith relevant trade fa                       |                   |   |                            |   | -        |
| Team  |  | n.a.     |   |                   |   |                            |   |          |
| Continuous n.a.<br>Improvement  |  | n.a.     |   |                   |   |                            |   |          |

### 5.1.3.6. Organize SEE Outsourcing & Nearshoring Conference in Kosovo

| Task No   |                            | 3.6      | Task name  |                          | Drganize SEE Outsour<br>Kosovo             | cing & Nearsh                | oring Confere       | nce in |  |
|---|----------------------------|----------|--|--------------------------|--|------------------------------|---------------------|--------|--|
| Priority  |                            | 2        | Predecessor tasks                                  |                          | -  |                              | % Complete          | 0%     |  |
| Descript  | ion & rational             | e        |  |                          |  |                              |                     | •      |  |
| should b  |                            | uth East | on Kosovo as a lead<br>Europe) in order to i<br>5. |                          |  |                              |                     |        |  |
| User story & resultsAs a stakeholder of the Kosovo IT industry I want to participate to position and mark<br>Kosovo as a leading outsourcing destination within Europe.As a Kosovo IT company I want to participate in the SEE Outsourcing & Nearshoring<br>Conference in order to establish international business partnerships, find potential r<br>clients and to increase my exports. |                            |          |  |                          |  | ng                           |                     |        |  |
| Acceptance criteria• SEE Outsourcing & Near& indicators• At least 3 outsourcing c   |                            |          |  |                          | -  |                              |                     |        |  |
| Responsible STIKK<br>organization (lead)  |                            |          |  | Partner<br>organizations | MZHE, KIESA, NMFA, GIZ, SDC, WKO,<br>USAID |                              |                     |        |  |
| Task sta  | rt:                        | 01.05.2  | 017  |                          | Task finish                                | 22.10.2017                   |                     |        |  |
| Overall   | budget (€)                 | 63,000   |  |                          | Financial sources                          | KIESA, GIZ, NMFA, SDC, USAID |                     |        |  |
| Task act  | ivities:                   |          |  |                          |  |                              |                     |        |  |
| No  | Activity                   |          |  | D                        | eliverables:                               | Resp.                        | Timing              | Budget |  |
| 3.6.1   |                            | Conferer | EE Outsourcing &<br>nce (program,<br>nancing)      |                          | ncept for<br>nference                      | STIKK, GIZ                   | 01.05<br>07.05.2017 | 3,000  |  |
| 3.6.2   | Implement S<br>Nearshoring |          | -  | Pro                      | ogram, report                              | STIKK                        | 01.10<br>22.10.2017 | 60,000 |  |
| Comments The SEE Outsourcing & Nears<br>initial event could be implem<br>IT Project) and USAID  |                            |          |  |                          | -  |                              |                     |        |  |
| Team  |                            | n.a.     |  |                          |  |                              |                     |        |  |
| Continuous n.a.<br>Improvement  |                            |          |  |                          |  |                              |                     |        |  |

# 5.1.3.7. Develop integrated marketing & branding concept for the Kosovo IT industry

| Task No   |  | 3.7                                     | Task name  |                          | Develop integrated m<br>Kosovo IT industry   | arketing & bra      | anding concep      | t for the   |  |
|---|--|---|--|--------------------------|--|---------------------|--------------------|-------------|--|
| Priority  |  | 2                                       | Predecessor tasks  |                          | -  |                     | % Complete         | 0%          |  |
| Descript  | ion & rational                               | е                                       |  |                          |  |                     | •                  |             |  |
| as one of<br>the Koso   | <sup>t</sup> the primary o<br>vo IT industry | obstacles<br>is neede                   | c analysis, lack of bra<br>to Kosovo IT exports<br>d, which integrates a<br>success factors of str | . Th<br>ll ne            | erefore, a comprehe<br>ecessary elements of  | nsive marketii      | ng & branding      | concept for |  |
| & branding concept so that<br>export markets.<br>As a Kosovo IT company I w<br>support for my company's i                           |  |   |  |                          | r of the Kosovo IT industry I want to have a suitable marketing<br>I can effectively promote the Kosovo IT industry on strategic<br>ant to use the marketing & branding concept as a guideline and<br>ndividual export marketing activities. |                     |                    |             |  |
| Accepta<br>& indica   | nce criteria<br>tors                         | <ul> <li>Mar</li> </ul>                 | grated marketing & b<br>keting & branding ma<br>ıstry ("IT Business Paı                            | ater                     | ial elaborated: Logo,  |                     | ntation of the     | Kosovo IT   |  |
| Responsible STIKK<br>organization (lead)  |  |   |  | Partner<br>organizations | IPAK, GIZ, NMFA, USAID, KIESA  |                     |                    |             |  |
| Task sta  | rt:  | 2.02.201                                | 17   |                          | Task finish  | 28.04.2017          |                    |             |  |
| Overall I   | oudget (€)                                   | 20,000                                  |  |                          | Financial sources  | IPAK, GIZ, NN       | /IFA, USAID        |             |  |
| Task act  | ivities:                                     |   |  |                          |  |                     |                    |             |  |
| No  | Activity                                     |   |  | De                       | eliverables:   | Resp.               | Timing             | Budget      |  |
| 3.7.1   | -  | ncept (stra<br>gy, opera<br>eting, 6 Ps | ategic marketing,<br>tional marketing &<br>, marketing   |                          | egrated marketing<br>branding concept  | STIKK, GIZ          | 2.02<br>27.02.2017 | 10,000      |  |
| 3.7.2   |  | , presenta                              | & branding material<br>ation of the Kosovo   |                          | go, slogan,<br>esentation  | STIKK, GIZ,<br>NMFA | 2.03<br>28.04.2017 | 10,000      |  |
| Comments The integrated marketing & b<br>other tasks in the area of exp<br>Best practice example:<br>Brasil IT+: http://www.brasili |  | ort                                     | promotion and mark   | eting the Kosc           |  |                     |                    |             |  |
| Team  |  | n.a.                                    |  |                          |  |                     |                    |             |  |
| Continuous n.a.<br>Improvement  |  |   |  |                          |  |                     |                    |             |  |

# 5.1.3.8. Implement digital marketing of the Kosovo IT industry ("Kosovo IT Excellence")

| Task No   |   | 3.8  | Task name   | 1   | mplement digital ma  | rketing of the  | Kosovo IT indu  | istry  |
|---|---|--|---|---|--|---|---|--|
| Priority  |   | 1  | Predecessor tasks   |   | 3.7 Integrated marke<br>branding concept   | eting &   | % Complete  | 0%   |
| Descrip   | tion & rational   | е  |   |   |  |   |   |  |
| industry<br>the Koso<br>The web<br>investing<br>proposit  | Based on the<br>vo IT industry<br>site will serve<br>g into the Koso<br>ion and key b | results o<br>will be im<br>as a <b>lan</b><br>wo IT indu<br>enefits, c | ting is a useful and<br>f Task 3.7 Integrated<br>plemented, includin<br>ding page / one-stop<br>ustry. Hence, the wel<br>ompany profiles and<br>n-making service) and | l ma<br>g we<br><b>o-sh</b><br>osite<br>ser | arketing & branding<br>ebsite, SEO, social mo<br>op for companies in<br>e will include informa<br>vice offerings, interr | concept, digita<br>edia integratio<br>terested in ou<br>ation on the Ko | al marketing m<br>n and YouTub<br>tsourcing to k<br>psovo IT indust | neasures for<br>e video.<br>Cosovo or in<br>cry, its value |
| User story & results As a Kosovo IT company I w<br>marketing instrument so th<br>joint marketing and brandir<br>As a Kosovo IT industry stak<br>the industry online.<br>As a potential client I want<br>industry and suitable outso |   |  |   |   | an present my comp<br>oproach.<br>Ider I want to use the<br>se the website to obt  | any to potenti<br>e website for n<br>ain informatio                     | al clients base<br>narketing and<br>n on the Kosov                  | d on a<br>branding   |
| Acceptance criteriaThe website and the d& indicatorsThe website achieves  |   |  |   |   | -  |   | I   |  |
| Responsible STIKK<br>organization (lead)  |   |  |   | Partner<br>organizations                    | MZHE, KIESA, USAID, NMFA, GIZ  |   |   |  |
| Task sta  | Task start: 30.04.2017  |  |   |   | Task finish  | 4.06.2017   |   |  |
| Overall   | budget (€)  | 26,000   |   |   | Financial sources  | USAID   |   |  |
| Task act  | ivities:  | 1  |   |   |  | 1   |   |  |
| No  | Activity  |  |   | D   | eliverables:   | Resp.   | Timing  | Budget   |
| 3.8.1   | including fur   | nctional sp  | eting concept<br>pecification for the<br>arketing tools   |   | ncept, functional<br>ecification   | STIKK   | 30.04<br>6.05.2017  | 5,000  |
| 3.8.2   | Prepare tend<br>tender  | ler docun  | nents and conduct   | ev  | nder documents,<br>aluation<br>cuments   | <b>STIKK</b>  | 7.05<br>11.05.2017  | 3,000  |
| 3.8.3   | media integr<br>developmen  | ation (inc<br>t); condu  | implement social<br>Iuding content<br>ct SEO and linkage<br>ebsites and portals   |   | ebsite, google<br>alytics reports  | <b>STIKK</b>  | 8.05<br>4.06.2017   | 10,000   |
| 3.8.4   | Develop You<br>industry for   |  | eo on the Kosovo IT<br>eting  | Yo  | uTube video  | KIESA   | 7.05<br>27.05.2017  | 8,000  |
| Comme   | nts   | website<br>Best pra<br>Outsour<br>Brasil IT                            | site could be develop<br>KIESA and a future I<br>ctice examples:<br>cing to Russia: <u>http:/</u><br>+: <u>http://www.brasil</u><br>c need to be closely c<br>on.     | CT N<br>/ww                                 | Ministry or Agency sh<br>vw.outsourcingrussia<br>us.com/brasilit/Ingle   | iould be closel<br>i.com/<br>s/index.php                                | v involved into   | ) this task.   |

| Task No.                  | 3.8  | Task name | Implement digital marketing of the Kosovo IT industry |
|---------------------------|------|-----------|---|
| Team                      | n.a. |           |   |
| Continuous<br>Improvement | n.a. |           |   |

### 5.1.3.9. Develop IT export manual for companies

| Task No  |                              | 3.9      | Task name                                    | 0               | Develop IT export ma            | nual for comp  | anies              |             |  |
|--|------------------------------|----------|--|-----------------|---------------------------------|----------------|--------------------|-------------|--|
| Priority   |                              | 1        | Predecessor tasks                            |                 | -                               |                | % Complete         | 0%          |  |
| Descript   | ion & rational               | е        |  |                 |                                 |                |                    |             |  |
|  |                              |          | ide Kosovo IT compa<br>upport programs, ins  |                 |                                 |                | duct IT expor      | ts and with |  |
| User sto   | ry & results                 |          | sovo IT company I wa<br>ities of my company. | ant 1           | to use the IT export n          | nanual in orde | r to improve t     | he export   |  |
| <ul> <li>Acceptance criteria<br/>&amp; indicators</li> <li>The IT export manual has<br/>companies</li> <li>At least 30% of STIKK m<br/>activities</li> </ul> |                              |          |  |                 |                                 |                |                    |             |  |
| Responsible STIKK<br>organization (lead)   |                              |          | Partner<br>organizations                     | IPAK, NMFA, GIZ |                                 |                |                    |             |  |
| Task sta   | rt:                          | 2.0327   | 7.03.2017                                    |                 | Task finish                     |                |                    |             |  |
| Overall  | oudget (€)                   | 12,000   |  |                 | Financial sources               | NMFA, GIZ      |                    |             |  |
| Task act   | ivities:                     |          |  |                 |                                 |                |                    |             |  |
| No   | Activity                     |          |  | D               | eliverables:                    | Resp.          | Timing             | Budget      |  |
| 3.9.1  | Elaborate IT                 | export m | anual  | IT              | export manual                   | STIKK, GIZ     | 2.03<br>26.03.2017 | 11,000      |  |
| 3.9.2  | Present the I<br>disseminate |          |  |                 | esentation of IT<br>port manual | STIKK          | 27.03.2017         | 1,000       |  |
| Comments The IT export manual should coaching & consulting progra  |                              |          |  |                 | be used in the frame            | ework of Task  | 3.3 Establish e    | export      |  |
| Team   |                              | n.a.     |  |                 |                                 |                |                    |             |  |
| Continuous n.a.<br>Improvement   |                              |          |  |                 |                                 |                |                    |             |  |

### 5.1.3.10. Provide export financing instruments

| Task No.                | 3.10   | Task name         | Provide export financing instruments |            |    |  |  |  |  |
|-------------------------|--|-------------------|--------------------------------------|------------|----|--|--|--|--|
| Priority                | 2  | Predecessor tasks | -                                    | % Complete | 0% |  |  |  |  |
| Description & rationale |  |                   |                                      |            |    |  |  |  |  |
| financial instruments r | Since most Kosovo IT companies have very limited financial resources and a rather weak equity position, special financial instruments need to be introduced in order to support their export activities. These instruments include export financing schemes as well as export credit insurance |                   |                                      |            |    |  |  |  |  |

| Task No  |                       | 3.10  | 3.10   Task name   Provide export financing instruments   |                 |  |                 |                               |              |  |  |  |
|--|-----------------------|---|---|-----------------|--|-----------------|-------------------------------|--------------|--|--|--|
| User sto   | ory & results         |   | sovo IT company I wa<br>my export activities.   | int t           | to have access to spe  | cial financing  | instruments so                | o that I can |  |  |  |
| Accepta<br>& indica  | nce criteria<br>tors  | <ul><li>At le instr</li><li>At le</li></ul> | cial export financing in<br>east 15 Kosovo IT com<br>ruments<br>east 10 Kosovo IT com<br>it insurance | npar            | nies have successfull  | y applied for e |                               | -            |  |  |  |
| Respons<br>organiza  | sible<br>ation (lead) | MF  | F Partner MZHE, KIESA, EU organizations   |                 |  |                 |                               |              |  |  |  |
| Task sta   | rt:                   | 5.01.201                                    | .7  |                 | Task finish  | 30.12.2018      |                               |              |  |  |  |
| Overall  | budget (€)            | 210,000                                     |   |                 | Financial sources  | EU              |                               |              |  |  |  |
| Task act   | ivities:              |   |   |                 |  |                 |                               |              |  |  |  |
| No   | Activity              |   |   | De              | eliverables:   | Resp.           | Timing                        | Budget       |  |  |  |
| 3.10.1   | (export loan          | schemes,                                    | ing instruments<br>export credit<br>sovo IT industry  | an<br>coi<br>ap | oduct description<br>d implementation<br>ncept including<br>plication<br>cuments | MF              | 05.01<br>22.01.2017           | 10,000       |  |  |  |
| 3.10.2   | (export loan          | schemes,                                    | ng instruments<br>export credit<br>sovo IT industry   |                 | esentation of IT<br>port manual  | MF              | 23.01.2017<br>-<br>30.12.2018 | 200,000      |  |  |  |
| Comments The export financing instrum<br>period should be at least 3 y<br>and instruments from devel-<br>used for this task. |                       |   |   |                 | . It needs to be clarif  | ied whether sp  | pecial support                | schemes      |  |  |  |
| Team   |                       | n.a.  |   |                 |  |                 |                               |              |  |  |  |
| Continuous<br>Improvementn.a.  |                       |   |   |                 |  |                 |                               |              |  |  |  |

## 5.1.3.11. Financial support program for export-specific consulting services

| Task No.   | 3.11  | Task name   | Financial support program for export-specific consulting services |                 |                   |           |  |  |
|--|---|---|---|-----------------|-------------------|-----------|--|--|
| Priority   | 2   | Predecessor tasks   | 3.3 Export coaching & consulting % Complete 0% program            |                 |                   |           |  |  |
| Description & rational                           | е   |   |   |                 |                   |           |  |  |
| This task will provide K support for task 3.3 "E |   | •   |   | •               | lting services, o | nce donor |  |  |
| User story & results                             |   | sovo IT company I wan<br>s in order to increase th                            |   |                 |                   | nsulting  |  |  |
| Acceptance criteria<br>& indicators              | <ul> <li>At let</li> </ul>  | ncial support program<br>east 5 Kosovo IT compa<br>sulting services (starting | nies / year are receivin  | g financial sup |                   |           |  |  |
| Responsible<br>organization (lead)               | Ministry of Finance     Partner<br>organizations     KIESA, Ministry of Economic<br>Development |   |   |                 |                   |           |  |  |
| Task start:                                      | 02.03.2   | 017   | Task finish         23.03.2017                                    |                 |                   |           |  |  |

| Task No.  |  | 3.11   | Task name   |               | Financial support program for export-specific consulting services |                                   |                                 | sulting   |
|---|--|--------|---|---------------|---|-----------------------------------|---------------------------------|-----------|
| Overall I   | oudget (€)   | 30,000 |   |               | Financial sources MF  |                                   |                                 |           |
| Task activities:  |  |        |   |               |   |                                   |                                 |           |
| No  | Activity   |        |   | D             | eliverables:  | Resp.                             | Timing                          | Budget    |
| 3.11.1  | 1 Develop financial support program for<br>export-specific consulting services |        | Implementation<br>concept including<br>application<br>documents |               | MF  | 2.03.2017-<br>20.03.2017          | 5,000                           |           |
| 3.11.2  | -  |        | upport program for ting services                                | -             | proved<br>plications  | MF                                | 23.03.2017                      | 25,000    |
| Comments This task is supposed to prov<br>specific consulting services, o<br>Companies need to fulfil elig<br>be based on a cost-sharing m<br>the expenses. |  |        |   | once<br>bilit | donor support for ta<br>y criteria defined for                    | ask 3.3 is no lo<br>task 3.3. The | nger available<br>support progr | am should |
| Team n.a.   |  |        |   |               |   |                                   |                                 |           |
| Continuous n.a.<br>Improvement  |  |        |   |               |   |                                   |                                 |           |

### **5.1.3.12.** Develop integrated service portfolio and delivery model

| Task No.   |   | 3.12   | Task name   |                                    | Develop integrated se   | ed service portfolio and delivery model  |   |   |  |  |
|--|---|--|---|------------------------------------|---|--|---|---|--|--|
| Priority   |   | 1  | Predecessor tasks   | 3                                  | 3.2   |  | % Complete  | 0%  |  |  |
| Descript   | ion & rational  | е  |   |                                    |   |  |   |   |  |  |
| nearshor<br>export cli<br>range of t<br>Thus, STI<br>ranging f | ing) by integra<br>ents will get a<br>technologies a<br>KK becomes a<br>rom IT consul | ating the<br>access to<br>and progr<br>a one-sto<br>ting, desi             | the notion of creatin<br>different capabilities<br>a large pool of qualifi<br>amming languages, a<br>p-shop providing an i<br>gn and specification<br>quality and efficienc   | and<br>ed a<br>t pr<br>nte<br>to d | d resources of STIKK<br>and experienced IT sprices which are consid<br>grated portfolio of o<br>coding and testing. A | member comp<br>becialists, who<br>derably below<br>ffshoring servi<br>t the same tin | anies. Thereby<br>are able to co<br>Western Europ<br>ces ("turnkey<br>ne, an innovati | y, potential<br>ver a broad<br>bean levels.<br>solutions"), |  |  |
| User sto   | ry & results  | service  | As a potential export client of the Kosovo IT industry I want to have access to an integrated service portfolio and delivery model which allows me to maximize the benefits of outsourcing / nearshoring for my enterprise. |                                    |   |  |   |   |  |  |
| Acceptar<br>& indica   | nce criteria<br>tors  | <ul><li>The of the</li><li>The</li></ul>                                   | ntegrated service por<br>service portfolio and<br>ne Kosovo IT industry<br>service portfolio and<br>nts (conference, B2B)   | del<br>del                         | ivery model has beer<br>ivery model has beer  | n included into  | the marketing   |   |  |  |
| Respons<br>organiza  | ible<br>tion (lead)   | STIKK  |   |                                    | Partner<br>organizations  | GIZ, NMFA, K   | IESA  |   |  |  |
| Task star  | ·t:   | 01.09.2  | 016   |                                    | Task finish   | 30.12.2018   |   |   |  |  |
| Overall b  | oudget (€)  | 31,200   |   |                                    | Financial sources   | GIZ  |   |   |  |  |
| Task acti  | vities:   |  |   |                                    |   |  |   |   |  |  |
| No   | Activity  |  | Deliverables: Resp. Timing Budg   |                                    |   |  |   |   |  |  |
| 3.12.1   | Analysis of e   | alysis of existing service spectrum and Presentation with STIKK 1.09 2,500 |   |                                    |   |  |   |   |  |  |

| Task No   |                                | 3.12        | Task name                       | Develop integrated s                  | service portfoli | o and delivery            | model  |
|---|--------------------------------|-------------|---------------------------------|---------------------------------------|------------------|---------------------------|--------|
|   | delivery mod<br>companies      | lels of STI | KK member                       | results of analysis                   |                  | 12.09.2016                |        |
| 3.12.2  | Needs assess<br>markets (cus   |             | strategic export<br>quirements) | Presentation with results of analysis | GIZ              | 15.09<br>30.09.2016       | 3,000  |
| 3.12.3  | Analysis of re<br>and internat |             | ncepts, models<br>practices     | Presentation with results of analysis | GIZ              | 1.10<br>14.10.2016        | 3,500  |
| 3.12.4  | Developmen<br>portfolio and    | -           | rated service<br>model          | Implementation concept                | GIZ              | 15.10<br>28.11.2016       | 7,200  |
| 3.12.5  | Implementat<br>portfolio and   |             | egrated service<br>model        | Marketing material                    | STIKK, GIZ       | 1.12.2016 -<br>30.12.2018 | 15,000 |
| Comments This task should be designed<br>export promotion service".<br>The integrated service portfor<br>differentiate the Kosovo IT in |                                |             | lio and delivery model          | should be used                        | ·                |                           |        |
| Team  |                                | n.a.        |                                 |                                       |                  |                           |        |
| Continuous n.a.<br>Improvement  |                                |             |                                 |                                       |                  |                           |        |

### 5.1.3.13. Establish Kosovo IT partner network

| Task No.                                   |   | 3.13       | Task name  | E  | Establish Kosovo IT partner network |            |                              |        |  |  |
|--|---|------------|--|----|-------------------------------------|------------|------------------------------|--------|--|--|
| Priority                                   |   | 2          | Predecessor tasks  | -  | - % Complete 0%                     |            |                              |        |  |  |
| Descript                                   | ion & rational  | е          |  |    |                                     |            |                              |        |  |  |
| industry.                                  | The member  | rs of this | will be established to<br>network (IT associat<br>e Kosovo IT industry |    |                                     |            |                              |        |  |  |
| User sto                                   | User story & results As a Kosovo IT industry stakeholder I want to use the IT partner network in order to support international branding and positioning of the Kosovo IT industry on strategic export markets. |            |  |    |                                     |            |                              |        |  |  |
| Accepta<br>& indica                        | nce criteria<br>tors  |            |  |    |                                     |            |                              |        |  |  |
| Respons<br>organiza                        | ible<br>ition (lead)  | STIKK      |  |    | Partner<br>organizations            | GIZ, NMFA  |                              |        |  |  |
| Task sta                                   | rt:   | 7.01.201   | 17   |    | Task finish                         | 06.10.2018 |                              |        |  |  |
| Overall b                                  | oudget (€)  | 9,000      |  |    | Financial sources                   | GIZ, NMFA  |                              |        |  |  |
| Task act                                   | ivities:  |            |  |    |                                     |            |                              |        |  |  |
| No   | Activity  |            |  | De | eliverables:                        | Resp.      | Timing                       | Budget |  |  |
| 3.13.1 Establish Kosovo IT partner network |   |            |  | Da | tabase, MoUs                        | GIZ, NMFA  | 3.03.2016<br>-<br>29.12.2018 | 5,000  |  |  |
| 3.13.2                                     | Link STIKK website to partner websites Links STIKK 3.03.2016<br>- 29.12.2018  |            |  |    |                                     |            | 1,000                        |        |  |  |

| Task No. | Task No.3.13Task name          |           | Task name  | Establish Kosov | o IT partner netw | ork  |       |
|----------|--------------------------------|-----------|--|-----------------|-------------------|--|-------|
| 3.13.3   | members of                     | the Kosov | newsletter for the<br>vo IT partner<br>partners into CRM | Newsletter      | STIKK             | 7.01<br>8.01.2017 /<br>1.04<br>2.04.2017 /<br>1.07<br>2.07.2017 /<br>7.10<br>8.10.2017 /<br>6.01<br>7.01.2018 /<br>6.04<br>7.04.2018 /<br>6.07<br>7.07.2018 /<br>5.10<br>6.10.2018 | 3,000 |
| Comme    | nts                            | -         |  |                 |                   |  |       |
| Team     | Team n.a.                      |           |  |                 |                   |  |       |
|          | Continuous n.a.<br>Improvement |           |  |                 |                   |  |       |

## 5.1.3.14. Establish framework contracts with leading IT staffing & project management service providers

| Task No.                            | 3.14  | Task name  | Establish framework contracts with leading IT staffing & project management service providers and IT incubators |              |   |  |  |  |  |  |
|-------------------------------------|---|--|---|--------------|---|--|--|--|--|--|
| Priority                            | 2   | Predecessor tasks  | 3.2 % Complete 0%   |              |   |  |  |  |  |  |
| Description & rational              | Description & rationale   |  |   |              |   |  |  |  |  |  |
|                                     | This task will provide Kosovo IT companies with concrete business opportunities in strategic export markets. At the same time these framework contract will support the international branding and positioning of the Kosovo IT industry. |  |   |              |   |  |  |  |  |  |
| User story & results                | As a Kosovo IT industry I want to use framework contracts with leading IT staffing & project management service providers and IT incubators to generate business opportunities for my company on export markets.                          |  |   |              |   |  |  |  |  |  |
| Acceptance criteria<br>& indicators | and<br>• At le  | east 3 framework contra<br>IT incubators signed<br>east 3 business leads ge<br>ect management servic | nerated based on the  | framework co | • |  |  |  |  |  |
| Responsible<br>organization (lead)  | STIKK   |  | Partner<br>organizations  | GIZ          |   |  |  |  |  |  |
| Task start:                         | 03.11.2016 Task finish 12.12.2016   |  |   |              |   |  |  |  |  |  |
| Overall budget (€)                  | 9,000   |  | Financial sources   | GIZ          |   |  |  |  |  |  |
| Task activities:                    |   |  |   |              |   |  |  |  |  |  |

| Task No                        | Task No.       |  | Task name     | Establish framework contracts with leading IT staffing & project management service providers and IT incubators |       |                     |        |  |  |
|--------------------------------|----------------|--|---------------|---|-------|---------------------|--------|--|--|
| No                             | Activity       |  |               | Deliverables:   | Resp. | Timing              | Budget |  |  |
| 3.14.1                         | leading IT sta | mework contracts with<br>affing & project<br>t service providers         |               | Signed framework contract   | GIZ   | 3.11<br>18.11.2016  | 5,000  |  |  |
| 3.14.2                         | -              | grate IT staffing & project<br>nagement service providers into CRM<br>em |               | Profiles in CRM<br>system   | STIKK | 19.11<br>20.11.2016 | 1,000  |  |  |
| 3.14.3                         | Generate at    | least 3 bu   | isiness leads | Business leads  | GIZ   | 24.11<br>12.12.2016 | 3,000  |  |  |
| Comme                          | nts            | Export P   | •             | ented in close collabo<br>ossible cooperation pa<br>up.   |       |                     |        |  |  |
| Team                           |                | n.a.   |               |   |       |                     |        |  |  |
| Continuous n.a.<br>Improvement |                |  |               |   |       |                     |        |  |  |

## 5.1.3.15. Qualify and position IT promoters

| Task No  |                               | 3.15                 | Task name             | C    | Qualify and position I          | T promoters                |                      |               |
|--|-------------------------------|----------------------|-----------------------|------|---------------------------------|----------------------------|----------------------|---------------|
| Priority   |                               | 1                    | Predecessor tasks     |      |                                 |                            | % Complete           | 0%            |
| Descrip  | tion & rational               | le                   |                       |      |                                 |                            |                      |               |
|  | taches of Kosc<br>gn markets. | ovo's emb            | assies and consulate  | s wi | ill be trained to serve         | as promoters               | of the Kosovo        | ) IT industry |
| User story & results As a Kosovo IT industry stakeholder I want to use the IT promoters to support the branding and positioning of the Kosovo IT industry on export markets  |                               |                      |                       |      |                                 |                            |                      |               |
| Acceptance criteria<br>& indicators • At least 10 trade attaches of Kosovo's embassies and consulates have been trained in<br>order to promote the Kosovo IT industry abroad |                               |                      |                       |      |                                 |                            |                      | ained in      |
| Respon:<br>organiza  | sible<br>ation (lead)         | STIKK                |                       |      | Partner<br>organizations        | Ministry of F<br>NMFA, MZH | oreign Affairs,<br>E | GIZ,          |
| Task sta   | rt:                           | 1.06.20              | 17                    |      | Task finish                     | 30.11.2017                 |                      |               |
| Overall  | budget (€)                    | 10,000               |                       |      | Financial sources               | GIZ, NMFA, S               | MFA                  |               |
| Task act   | ivities:                      |                      |                       |      |                                 |                            |                      |               |
| No   | Activity                      |                      |                       | D    | eliverables:                    | Resp.                      | Timing               | Budget        |
| 3.15.1   | Prepare train for IT promo    | -                    | narketing material    |      | aining and<br>arketing material | GIZ                        | 1.06<br>30.07.2017   | 8,000         |
| 3.15.2   | Implement t<br>for IT promo   | •                    | nd capacity building  |      | aluation report of<br>aining    | GIZ                        | 1.10<br>30.11.2017   | 2,000         |
| Comme  | nts                           | Annual r<br>building | meeting of trade atta | che  | s in Prishtina should           | be used for tra            | aining and cap       | acity         |
| Team   |                               | n.a.                 |                       |      |                                 |                            |                      |               |
| Continu<br>Improve   |                               | n.a.                 |                       |      |                                 |                            |                      |               |

### 5.1.3.16. Establish diaspora marketing network

| Task No  |  | 3.16               | Task name   | E          | stablish diaspora ma                          | irketing netwo        | ork                          |             |
|--|--|--------------------|---|------------|---|-----------------------|------------------------------|-------------|
| Priority   |  | 2                  | Predecessor tasks   |            |   |                       | % Complete                   | 0%          |
| Descript   | ion & rational                               | е                  |   |            |   |                       |                              |             |
|  |  |                    | trategic export mark<br>eeds to be closely inte   |            |   |                       |                              | n important |
| User sto   | ry & results                                 | contact<br>As a Ko | sovo IT company I wa<br>s for business develo<br>sovo IT industry stake<br>g and positioning of | pm<br>ehol | ent on export market<br>der I want to use the | ts.                   |                              |             |
| <ul> <li>Acceptance criteria<br/>&amp; indicators</li> <li>The diaspora marketing network has been successfully established by signing MoUs<br/>between STIKK and the diaspora organizations</li> <li>At least 3 business leads generated based on the diaspora marketing network</li> </ul> |  |                    |   |            |   |                       |                              |             |
| Respons<br>organiza  | ible<br>ition (lead)                         | STIKK              |   |            | Partner<br>organizations                      | Ministry of F<br>NMFA | oreign Affairs,              | KIESA, GIZ, |
| Task sta   | rt:  | 1.12.201           | 16  |            | Task finish                                   | 30.06.2017            |                              |             |
| Overall  | budget (€)                                   | 4,000              |   |            | Financial sources                             | GIZ, NMFA             |                              |             |
| Task act   | ivities:                                     |                    |   |            |   |                       |                              |             |
| No   | Activity                                     |                    |   | D          | eliverables:                                  | Resp.                 | Timing                       | Budget      |
| 3.16.1   | Establish dia<br>and sign Mo<br>organization | Us with d          | rketing network<br>iaspora  |            | tabase with key<br>ntacts, MoUs               | STIKK, GIZ            | 1.12.2016<br>-<br>16.06.2017 | 3,000       |
| 3.16.2   |  |                    |   |            | ofiles in CRM<br>stem                         | STIKK                 | 17.06<br>30.06.2017          | 1,000       |
| Comme  | nts  | been est           | al countries diaspora<br>ablished. These orga<br>tion with STIKK.                               | -          |   |                       |                              |             |
| Team   |  | n.a.               |   |            |   |                       |                              |             |
| Continuous n.a.<br>Improvement   |  |                    |   |            |   |                       |                              |             |

### 5.1.3.17. Establish award "Software Exporter of the Year"

| Task No.  | 3.17 | Task name         | Establish award "Software and IT Se<br>Year" | ervices Exporter | of the |  |  |  |
|---|------|-------------------|--|------------------|--------|--|--|--|
| Priority  | 2    | Predecessor tasks | % Complete 0%                                |                  |        |  |  |  |
| Description & rational  | e    |                   |  |                  |        |  |  |  |
| This task will raise the awareness on the importance of exports for the Kosovo economy in general and for its |      |                   |  |                  |        |  |  |  |

| Task No  |                                | 3.17        | Task name   |   | Establish award "Soft<br>Year"                 | ware and IT     | Services Export    | er of the |
|--|--------------------------------|-------------|---|---|--|-----------------|--------------------|-----------|
| software   | and IT service                 | es industr  | y in particular.                                    |   |  |                 |                    |           |
| User sto   | ry & results                   | Exporte     |   |   | lder I want to use the<br>e awareness of the p |                 |                    |           |
| Accepta<br>& indica  | nce criteria<br>tors           |             | ast one article or ne<br>azine, TV) / year.         | ews (   | coverage in one of Ko                          | osovo's leadii  | ng media (news     | paper,    |
| Respons<br>organiza  | ible<br>ition (lead)           | STIKK       |   |   | Partner<br>organizations                       | MZHE            |                    |           |
| Task sta   | rt:                            | 3.11.201    | .6  |   | Task finish                                    | 3.11.2018       |                    |           |
| Overall  | budget (€)                     | 8,000       |   |   | Financial sources                              | MZHE            |                    |           |
| Task act   | ivities:                       |             |   |   |  |                 |                    |           |
| No   | Activity                       |             |   | D   | eliverables:                                   | Resp.           | Timing             | Budget    |
| 3.17.1   |                                | orter of th | oftware and IT<br>ne Year" including<br>on criteria | Co  | ncept  | STIKK           | 3.11<br>12.11.2016 | 2,000     |
| 3.17.2   | Selection of<br>implementation | tion of aw  | s and<br>ard ceremony                               | Article / news<br>coverage         STIKK,<br>KIESA         3.11.2017 /<br>3.11.2018         6,000 |  |                 |                    |           |
| Comments The award "Software and IT<br>framework of an official eve<br>winner should be entitled to<br>promotion purposes. |                                |             |   | nt w  | ith high government                            | al as well as i | media presence     | . The     |
| Team   |                                | n.a.        |   |   |  |                 |                    |           |
| Continuous n.a.<br>Improvement   |                                |             |   |   |  |                 |                    |           |

### 5.1.4. Strategic Pillar 4: Domestic Market Development

### 5.1.4.1. Establish Tender Information Service (TIS)

| Task No.  | 4.1  | Task name                                       | Establish Tender Information Servic                             | e (TIS)            |          |  |  |  |  |
|---|--|---|---|--------------------|----------|--|--|--|--|
| Priority  | 3  | Predecessor tasks                               | -   | % Complete         | 0%       |  |  |  |  |
| Description & rational  | е  |   |   |                    |          |  |  |  |  |
| This task has been envisaged to provide Kosovo IT companies with up-to-date information on IT-related tenders on domestic as well as regional (SEE) markets. At the same time it will provide Kosovo companies from other industries as well as government institutions and donor organizations with the opportunity to optimize their procurement activities concerning IT solutions and services. The Tender Information Service will be designed and implemented as a cluster service of STIKK for its member companies. |  |   |   |                    |          |  |  |  |  |
| User story & results  |  | sovo IT company I wan<br>nal business opportuni | t to use the Tender Information Serv<br>ties for my enterprise. | ice as a tool to g | generate |  |  |  |  |
| As a Kosovo company, government institution or donor organization I want to use the<br>Tender Information Service in order to optimize my IT purchasing activities and to identify<br>the most suitable provider (cost-performance ratio) of IT solutions and services.   |  |   |   |                    |          |  |  |  |  |
| Acceptance criteria<br>& indicators   | <ul> <li>The Tender Information Service is fully operational.</li> <li>At least 5 tenders / year have been processed via the Tender Information System.</li> </ul> |   |   |                    |          |  |  |  |  |

| Task No   | 0.                      | 4.1  | Task name         | E | Establish Tender Info   | rmation Servio  | ce (TIS)   |  |
|---|-------------------------|--|-------------------|---|---|---|--|--|
| Respor<br>organiz   | nsible<br>zation (lead) | STIKK  |                   |   | Partner<br>organizations  | KRPP, USAID   | , EU   |  |
| Task st   | art:                    | 04.01.   | 2018              |   | Task finish   | 30.12.2018  |  |  |
| Overall   | l budget (€)            | 11,000   |                   |   | Financial sources   | USAID, EU   |  |  |
| Task ac   | ctivities:              |  |                   |   |   |   |  |  |
| No  | No Activity             |  |                   |   | eliverables:  | Resp.   | Timing   | Budget   |
| 4.1.1   | Information             | orate concept for the Tender<br>mation System (sources, screening<br>edures, process, tools, etc.) |                   |   | ncept   | USAID   | 4.01<br>13.01.2018   | 5,000  |
| 4.1.2   | Implement T             | ender In   | formation Service |   | ewsletters with<br>nder information   | STIKK,<br>USAID   | 14.01<br>30.12.2018  | 6,000  |
| Comments The Tender Information Serv<br>to its member companies. It<br>Alternatively it could be base<br>collaborative software applic<br>Yammer). Existing tender inf<br>EuropeAid or EBRD should be<br>government institutions and<br>IT-related tenders. |                         |  |                   |   | uld be based on a sin<br>n an alert functionali<br>on / groupware or EC<br>ation platforms as th<br>ed. STIKK should acti | nple e-mailing<br>ty provided th<br>M application<br>ley are being p<br>vely encourag | / newsletter s<br>at STIKK introd<br>(e.g. SharePoi<br>provided for in<br>e companies, | ervice.<br>duces a<br>nt, Trello,<br>stance by |
| Team  |                         | n.a.   |                   |   |   |   |  |  |
| Continuous n.a.<br>Improvement  |                         |  |                   |   |   |   |  |  |

### 5.1.4.2. Provide trainings to IT companies on tender management

| Task No.              |  | 4.2       | Task name  | F  | Provide trainings to IT  | companies or    | n tender mana | gement |  |
|-----------------------|--|-----------|--|----|--------------------------|-----------------|---------------|--------|--|
| Priority              |  | 3         | Predecessor tasks  |    |                          |                 | % Complete    | 0%     |  |
| Descripti             | ion & rational   | e         |  |    |                          |                 |               |        |  |
| trainings             | Particularly for IT SMES, the often complex tender procedures represent a major challenge. Therefore special trainings on tender management will be implemented including topics such as evaluation of tender documents, elaborating technical and financial proposals as well as forming consortia. |           |  |    |                          |                 |               |        |  |
| User sto              | ry & results   |           | as a Kosovo IT company I want to participate in trainings on tender management so that I an successfully participate in national as well as international tenders. |    |                          |                 |               |        |  |
| Acceptar<br>& indicat | nce criteria<br>tors   | beer      | nder management tra<br>n elaborated.<br>east 30 companies ha   |    |                          |                 | -             |        |  |
| Respons<br>organiza   | ible<br>tion (lead)  | STIKK     |  |    | Partner<br>organizations | KRPP, USAID, EU |               |        |  |
| Task star             | t:   | 2.11.201  | .7   |    | Task finish              | 16.08.2018      |               |        |  |
| Overall b             | oudget (€)   | 21,000    |  |    | Financial sources        | USAID, EU       |               |        |  |
| Task acti             | vities:  |           |  |    |                          |                 |               |        |  |
| No                    | Activity   |           |  | D  | eliverables:             | Resp.           | Timing        | Budget |  |
| 4.2.1                 | Conduct nee  | ds assess | ment and identify  | Ne | eeds assessment;         | USAID           | 2.11          | 3,000  |  |

| Task No |   | 4.2   | Task name  | Provide trainings to  | IT companies o  | on tender man                 | agement |
|---------|---|---|--|---|-----------------|-------------------------------|---------|
|         | IT-related te domestic ma                     | nders (foo<br>irkets), ba   | ations concerning<br>cus on regional and<br>sed on insights<br>mation System | list of most relevant<br>organizations in<br>terms of IT-related<br>tenders |                 | 6.11.2017                     |         |
| 4.2.2   | program (ker<br>tender proce<br>technical pro | lop tender management training<br>ram (key topics: tender evaluation,<br>er procedures and requirements,<br>nical proposal writing, elaborating<br>cial proposals, forming consortia) |  | Training program  | USAID, EU       | 9.11<br>27.11.2017            | 9,000   |
| 4.2.3   | Conducting t<br>trainings (at                 |   | •  | List of participants;<br>evaluation sheets                                  | USAID, EU       | 30.11.2017<br>-<br>16.08.2018 | 9,000   |
| Comme   | nts   |   | ler management trai<br>Academy (see Task 2                                   | ning should be integrat<br>2.1).  | ed into the pro | ogram of the S                | ГІКК    |
| Team    |   | n.a.  |  |   |                 |                               |         |
|         | Continuous n.a.<br>mprovement                 |   |  |   |                 |                               |         |

## 5.1.4.3. Conduct information campaign on digital transformation

| Task No.  | 4.3  | Task name   | Conduct information campaign on c  | ligital transform  | ation   |
|---|--|---|--|--|---|
| Priority  | 3  | Predecessor tasks   | 1.2 National committee on digital transformation   | % Complete   | 0%  |
| Description & rationa   | le   |   |  |  |   |
| trends driving digital the<br>social media. While the<br>felt, it is particularly re-<br>operations as well as f<br>same time, digital trans<br>For Kosovo's economy<br>productivity, enhance<br>Thus, the main goal of<br>and the potential of di<br>win situation for both, | ransforma<br>ere is alm<br>levant for<br>or the ove<br>sformatic<br>digital tra-<br>competiti<br>this task<br>gital trans<br>the Koso<br><b>idustries</b><br>ind 2): | ation are mobile compu-<br>ost no area within a co<br>r functional areas such<br>erall business model (d<br>on requires specific tecl<br>ansformation is of para<br>iveness and boost busin<br>is raising the awarenes<br>sformation. At the very<br>vo IT industry as well a | ustries and organizational functions.<br>uting / mobility, cloud computing, big<br>mpany where digital transformation<br>as marketing and sales ("customer ex-<br>igitally-modified businesses, new digi-<br>nnical know-how and new capabilitie<br>mount importance, enabling compar-<br>ness growth and innovation.<br>s of other sectors of the Kosovo econ-<br>heart of this task stands the notion t<br>s for the other sectors of the econom-<br><b>ts on the domestic market</b> have been<br>and the sectors of the econom-<br>ter of ter of the sectors of the econom-<br>ter of ter | data / analytics<br>has not made it<br>xperience") and<br>ital businesses).<br>s.<br>nies to improve<br>nomy on the imp<br>hat this will creation. | and<br>s impact<br>At the<br>portance<br>ate a win- |
| User story & results  | transfo<br>As a Ko<br>digital t  | rmation in order to ope<br>sovo company from th   | t to participate in the information ca<br>en up new customer segments on the<br>e non-IT sector I want to participate i<br>I can learn about how to use digital to<br>of my enterprise.  | e domestic mark<br>n information e   | et.<br>vents on                                     |

| Task N   | 0.   | 4.3  | Task name                                       | 0     | Conduct information      | campaign c                  | on digital transfor           | mation  |  |
|--|--|--|---|-------|--------------------------|-----------------------------|-------------------------------|---------|--|
| Accept<br>& indic  | ance criteria<br>cators  |  | east 100 companies f<br>icipated in information |       |                          |                             |                               | et have |  |
| Respor<br>organiz  | nsible<br>zation (lead)  | STIKK  |   |       | Partner<br>organizations | MZHE, GIZ, NMFA, USAID, MTI |                               |         |  |
| Task st  | Task start: 02.03.2017   |  |   |       | Task finish              | 30.12.20                    | 18                            |         |  |
| Overal   | l budget (€)   | 23,000   |   |       | Financial sources        | GIZ, NMF                    | 4                             |         |  |
| Task activities:   |  |  |   |       |                          |                             |                               |         |  |
| No Activity  |  |  |   | D     | eliverables:             | Resp.                       | Timing                        | Budget  |  |
| 4.3.1  | transformati<br>areas of app                                   | Elaborate presentation on digital<br>transformation (trends, technologies,<br>areas of application, best practice<br>examples, etc.) |   | Pre   | esentation               | GIZ                         | 2.03<br>11.03.2017            | 5,000   |  |
| 4.3.2  |  | formation  | e examples of<br>from Kosovo<br>s)              | Pre   | esentation               | STIKK                       | 12.03<br>17.03.2017           | 3,000   |  |
| 4.3.3  | Develop vide<br>transformat                                    |  | ouTube) on digital                              | Vio   | deo-clip (YouTube)       | USAID                       | 12.03<br>25.03.2017           | 9,000   |  |
| 4.3.4  | Conduct at l<br>digital transf<br>companies f<br>industries (s | formation<br>rom selec   | ted target                                      | Lis   | t of participants        | STIKK                       | 18.03.2017<br>-<br>30.12.2018 | 6,000   |  |
| Comments The focus of the information<br>social media integration, so<br>Computing (laaS, PaaS, SaaS |  |  |   | ial C | RM, e-commerce, m        | obile apps,                 | e-recruiting, ECN             |         |  |
| Team   |  | n.a.   |   |       |                          |                             |                               |         |  |
|  | Continuous n.a.<br>Improvement                                 |  |   |       |                          |                             |                               |         |  |

## 5.1.4.4. Implement information event on e-government trends and open data

| Task No.  | 4.4  | Task name   | Implement information event on e-government trends and open data   |                      |                 |    |  |  |  |
|---|--|---|--|----------------------|-----------------|----|--|--|--|
| Priority  | 3  | Predecessor tasks   | -  |                      | % Complete      | 0% |  |  |  |
| Description & rational  | onale  |   |  |                      |                 |    |  |  |  |
| IT industry with regard<br>This task will promote<br>actors as well as the IT | Current e-government trends and open data are important topics for Kosovo's public sector but also for the Kosovo<br>IT industry with regards to the development of corresponding IT applications (e.g. based on open data).<br>This task will promote awareness raising on e-government trends and open data and thus addresses public sector<br>actors as well as the IT industry. |   |  |                      |                 |    |  |  |  |
| User story & results  | data so<br>As a pu   | sovo IT company I wan<br>that I can develop corr<br>blic actor I want to lear<br>an effectively promote   | esponding IT applications in more about current of the second sec | ons.<br>e-government | trends and ope  |    |  |  |  |
| Acceptance criteria<br>& indicators   |  | <ul> <li>At least 20 companies and 15 government representatives / public actors have<br/>participated in the information event on e-government and open data.</li> </ul> |  |                      |                 |    |  |  |  |
| Responsible   | ASHI   |   | Partner  | MZHE, KIPA,          | STIKK, USAID, E | U  |  |  |  |

| Task No                        | Э.   | 4.4   | Task name   |                      | mplement information<br>pen data | on event on e-                | government t        | rends and |
|--------------------------------|--|---|---|----------------------|----------------------------------|-------------------------------|---------------------|-----------|
| organiz                        | ation (lead)   |   |   |                      | organizations                    |                               |                     |           |
| Task sta                       | art:   | 01.04.2   | 017   |                      | Task finish                      | 29.05.2017                    |                     |           |
| Overall budget (€) 10,500 I    |  |   |   | Financial sources    | ASHI, USAID,                     | , EU                          |                     |           |
| Task ac                        | tivities:  | 1   |   |                      | L                                |                               |                     |           |
| No                             | No Activity  |   |   |                      | eliverables:                     | Resp.                         | Timing              | Budget    |
| 4.4.1                          | Elaborate presentation on current e-<br>government trends and open data<br>including national and international best<br>practice examples (e.g. selected open<br>data portals) |   |   | Pro                  | esentation                       | EU                            | 1.04<br>17.04.2017  | 6,000     |
| 4.4.2                          | government<br>define next s  | duct information event on current e-<br>ernment trends and open data and<br>ne next steps for public-private<br>aboration in this field |   |                      | t of participants                | ASHI, KIPA,<br>MZHE           | 20.04.2017          | 3,000     |
| 4.4.3                          | Establish a jo<br>collaboration<br>and open da   | n platforn  | ing group /<br>n on e-government  | Pro                  | otocols                          | ASHI, KIPA,<br>STIKK,<br>MZHE | 21.04<br>29.05.2017 | 1,500     |
| Comme                          | ents   | governn<br>Best pra<br>http://o<br>http://p<br>http://w<br>http://w   | emphasis should be p<br>nent as well as for the<br>ctice examples:<br>pen-data.europa.eu/<br>ublicdata.eu/<br>vww.data.gov/<br>ata.gov.uk/<br>vww.opendata.bayer<br>ata.gov.sg/ | e pr<br>' <u>en/</u> | ivate sector.<br><u>data/</u>    | penefits of ope               | en data for the     |           |
| Team                           |  | n.a.  | <u>ata.50¥.35/</u>  |                      |                                  |                               |                     |           |
|                                | 10115  | -   |   |                      |                                  |                               |                     |           |
| Continuous n.a.<br>Improvement |  |   |   |                      |                                  |                               |                     |           |

### 5.1.4.5. Conduct information events on latest IT trends

| Task No.  | 4.5  | Task name                                   | Conduct information events on late                        | st IT trends |    |  |  |  |  |
|---|--|---|---|--------------|----|--|--|--|--|
| Priority  | 3  | Predecessor tasks                           | -   | % Complete   | 0% |  |  |  |  |
| Description & rationale   |  |   |   |              |    |  |  |  |  |
| The key rationale behind this task is to inform Kosovo companies (particularly SMEs), public actors as well as academics and students on latest IT trends in order to raise awareness on the importance of IT and to promote the digital transformation of the Kosovo economy. Secondary goal of this task are customer education and business development. |  |   |   |              |    |  |  |  |  |
| User story & results  | As a Kosovo company or public actor I want to use information events on latest IT rends so<br>that I can make informed decisions on how to apply IT effectively in my organization.<br>As an academic or student I want to use information events on latest IT trends so that I can<br>integrate them effectively in my academic activities (research, teaching, studies). |   |   |              |    |  |  |  |  |
| Acceptance criteria<br>& indicators   |  | ast 3 information ever<br>icipants / event. | on events / year have been conducted with a minimum of 30 |              |    |  |  |  |  |

| Task No  |                               | 4.5   | Task name                        | C                         | Conduct information  | events on late  | st IT trends   |            |  |
|--|-------------------------------|---|----------------------------------|---------------------------|--|---|--|------------|--|
| Respon:<br>organiza  | sible<br>ation (lead)         | STIKK   |                                  |                           | Partner<br>organizations   | MZHE, MASHT, Universities, Industry<br>Associations, Chambers |  |            |  |
| Task sta   | irt:                          | 17.11.2                                       | 016                              |                           | Task finish  | 14.12.2018  |  |            |  |
| Overall  | Overall budget (€) 16,000     |   |                                  | Financial sources         | STIKK, NMFA  | , IT companie   | S  |            |  |
| Task activities:   |                               |   |                                  |                           |  |   |  |            |  |
| No   | Activity                      |   |                                  | D                         | eliverables:   | Resp.   | Timing   | Budget     |  |
| 4.5.1  | Create conce<br>(format, dura | -   | ormation events<br>ucture, etc.) | Co                        | ncept  | STIKK   | 4.05<br>11.05.2017   | 2,000      |  |
| 4.5.2  | Identify and                  | evaluate                                      | relevant IT trends               | -                         | t of IT trends with<br>hort evaluation   | STIKK, IT<br>companies  | 12.05.2017   | 7,000      |  |
| 4.5.3  | Conduct info                  | Conduct information event on latest IT trends |                                  |                           | esentations; lists of<br>rticipants  | IT<br>companies,<br>STIKK                                     | 17.11.2016<br>/ 8.04.2017<br>/<br>12.08.2017<br>/ 9.12.2017<br>/<br>13.04.2018<br>/<br>10.08.2018<br>/<br>14.12.2018 | 7,000      |  |
| Comments It is recommendable that the companies or by universities The focus of these informatic benefits / opportunities and There are several sources for Gartner's Hype Cycle, acader companies and analysts. |                               |   |                                  | and<br>on e<br>app<br>the | l research institutes.<br>vents should be on il<br>lications of latest IT t<br>e identification and ev | lustrating the rends.   | possible impa  | cts,<br>ng |  |
| Team   |                               | n.a.  |                                  |                           |  |   |  |            |  |
| Continuous n.a.<br>Improvement   |                               |   |                                  |                           |  |   |  |            |  |

## 5.1.4.6. Implement the Kosovo CIO Summit

| Task No.                            | 4.6   | Task name  | Implement the Kosov | the Kosovo CIO Summit |                  |      |  |  |  |
|-------------------------------------|---|--|---------------------|-----------------------|------------------|------|--|--|--|
| Priority                            | 2   | Predecessor tasks  | -                   |                       | % Complete       | 0%   |  |  |  |
| Description & rational              | le  |  |                     |                       |                  |      |  |  |  |
|                                     | he Kosovo CIO Summit is supposed to serve as a platform for joint networking, exchange of experience, expert iscussions and for strengthening cross-sectoral cooperation. |  |                     |                       |                  |      |  |  |  |
| User story & results                | and to r<br>As a Kos  | As a CIO I want to participate in the CIO summit in order to participate in expert discussions<br>and to network with Kosovo IT companies.<br>As a Kosovo IT company I want to participate in the CIO summit in order to network with<br>potential partners and clients. |                     |                       |                  |      |  |  |  |
| Acceptance criteria<br>& indicators | <ul> <li>The Kosovo CIO Summit is taking place on an annual basis with a minimum of 50 participants.</li> </ul>   |  |                     |                       |                  |      |  |  |  |
| Responsible                         | STIKK   |  | Partner             | Industry Asso         | ociations, Chaml | pers |  |  |  |

| Task No.                  |  | 4.6 Task name  |  | I       | Implement the Kosovo CIO Summit |   |                               |        |  |
|---------------------------|--|--|--|---------|---------------------------------|---|-------------------------------|--------|--|
| organization (lead)       |  |  |  |         | organizations                   |   |                               |        |  |
| Task start:               |  | 06.02.2017   |  |         | Task finish                     | 12.05.2018                                    |                               |        |  |
| Overall budget (€)        |  | 11,000   |  |         | Financial sources               | Companies (sponsorship and participation fee) |                               | nd     |  |
| Task ac                   | tivities:  |  |  |         |                                 |   |                               |        |  |
| No                        | Activity   | ity  |  |         | eliverables:                    | Resp.   | Timing                        | Budget |  |
| 4.6.1                     | Create concept for CIO Summit (format, duration, structure, financing, PR, etc.) |  |  | Concept |                                 | STIKK   | 6.02<br>12.02.2017            | 2,000  |  |
| 4.6.2                     | Conduct Kosovo CIO Summit on an annual basis                                     |  |  |         | ogram; list of<br>rticipants    | <b>STIKK</b>                                  | 12.05.2017<br>/<br>12.05.2018 | 9,000  |  |
| Comments                  |  | The Summit should include particularly CIOs from the domestic target market segments, which have been defined in the framework of the Kosovo IT Strategy: Retail & wholesale, Tourism, Energy, Health, Financial services, Telecom, Agriculture, Public sector |  |         |                                 |   |                               |        |  |
| Team                      |  | n.a.   |  |         |                                 |   |                               |        |  |
| Continuous<br>Improvement |  | n.a.   |  |         |                                 |   |                               |        |  |

# 5.1.4.7. Implement B2B match-making events with selected domestic market target industries

| Task No.   |   | 4.7 Task name  |                   |  | Implement B2B match-making events with selected domestic market target industries |            |            |          |  |
|--|---|--|-------------------|--|---|------------|------------|----------|--|
| Priority   |   | 2  | Predecessor tasks | -  |   |            | % Complete | 0%       |  |
| Descripti  | on & rational   | е  |                   |  |   |            |            |          |  |
| <ul><li> Open thus of</li><li> Provide</li></ul>   | <ul> <li>The main goals of this task are:</li> <li>Opening up the growth potential of the domestic market (in selected target industries) to Kosovo IT companies thus creating an additional source of income and revenue streams</li> <li>Provide companies from other industries with innovative IT products and services in order to improve their efficiency and productivity.</li> </ul> |  |                   |  |   |            |            |          |  |
| User story & resultsAs a Kosovo IT company I want to participate in B2B match-making events so<br>new clients and business partners from other industries.As a company from the non-IT sector I want to participate in B2B match-match<br>order to identify suitable providers of IT solutions and services. |   |  |                   |  |   |            |            |          |  |
| Acceptar<br>& indicat  | ice criteria<br>fors  | <ul> <li>At least 2 match-making events / year have been successfully implemented.</li> <li>As a result of the match-making events at least 5 business cooperations / contracts / year have been established.</li> </ul> |                   |  |   |            |            | cracts / |  |
|  | Responsible<br>organization (lead)  |  |                   | Partner<br>organizations Industry Associations, Clusters,<br>Chambers, KIESA, MTI, GIZ, NM<br>SDC, USAID, EU, MZHE |   |            | ,          |          |  |
| Task star  | Task start:   |  | 25.11.2016        |  | Task finish   | 12.12.2018 |            |          |  |
| Overall budget (€)   |   | 34,000   |                   | Financial sources  | GIZ, NMFA, SDC, USAID, EU   |            |            |          |  |
| Task acti  | Task activities:  |  |                   |  |   |            |            |          |  |
| No   | Activity  |  |                   | De   | eliverables:  | Resp.      | Timing     | Budget   |  |
| 4.7.1  | Create methodology and concept for  |  |                   | Me   | ethodology,   | GIZ        | 2.02       | 5,000    |  |

| Task No. |  | 4.7   | Task name   | Implement B2B match-making events with selected domestic market target industries |  |   |   |  |  |
|----------|--|---|---|---|--|---|---|--|--|
|          | financing, m<br>Note: B2B m  | gy, format<br>arketing,<br>natch-mak  | , agenda, duration,   | concept   |  | 6.02.2017   |   |  |  |
| 4.7.2    | Conduct IT r<br>target indus   |   | ssment in selected  | IT needs assessment<br>report (PPT)   | SDC  | 9.02<br>30.03.2017  | 12,000  |  |  |
| 4.7.3    |  | dividually<br>uster-base  | ct / service<br>on company level<br>ed: "integrated   | Description of IT<br>product / service<br>portfolio                               | STIKK, IT<br>companies   | 31.03<br>6.04.2017  | 2,000   |  |  |
| 4.7.4    | Organization and implementation of<br>industry-specific B2B match-making<br>events |   |   | Program, company<br>presentations, list of<br>participants                        | STIKK, IT<br>companies   | 10.06.2017<br>/<br>14.12.2017<br>/<br>10.06.2018<br>/<br>12.12.2018   | 12,000  |  |  |
| 4.7.5    |  | o the com   | elopment support apanies after the  | Evaluation reports  | STIKK, SDC,<br>GIZ   | 25.11.2016<br>/<br>25.05.2017<br>/<br>25.11.2017<br>/<br>25.05.2018<br>/<br>25.11.2018  | 3,000   |  |  |
| Comme    | nts  | particula<br>energy).<br>Furtherr<br>service of<br>descript<br>Manual<br>2011/giz<br>Underst<br>industrie<br>combina<br><b>specializ</b><br>success | ar industry association<br>nore the whole task<br>of STIKK (cluster service<br>and Toolbox (5.1) for<br>2011-0475en-it-sect<br>anding the specific re-<br>tes is a key success far<br>ition with a vertical f<br>cation and process k<br>factor and important | lutions   | s of the selecter<br>signed and imple<br>efficiency and<br>process model<br>attp://www2.gt<br>odf.<br>ems of users in<br>ipative, user-en-<br>ed. Vertical (incon<br>nancial services<br>tential competi-<br>ollowing produ<br>Web desig<br>Network s<br>Intranet so | ed target indus<br>lemented as a<br>sustainability.<br>can be found<br>z.de/dokumer<br>the selected tan<br>agged approa<br><b>lustry-specific</b><br>industry) are<br>tors.<br>ct / service po<br>gn<br>support & main<br>plustions<br>nent solutions | atries (e.g.<br>specific<br>A detailed<br>in GIZ's<br><u>ate/bib-</u><br>arget<br>ach in<br><b>)</b><br>another ke<br>rtfolio has |  |  |

| Task No.                  | 4.7                 | Task name   | Implement B2B match-making events with selected domestic market target industries |  |  |  |  |
|---------------------------|---------------------|---|---|--|--|--|--|
|                           | Financia<br>Mining. | Financial services, Telecom, Agriculture, Public sector. An additional target industry could be Mining. |   |  |  |  |  |
| Team                      | n.a.                | n.a.  |   |  |  |  |  |
| Continuous<br>Improvement | n.a.                |   |   |  |  |  |  |

# 5.1.4.8. Organize B2B match-making with international investors (indirect exporting)

| Task No.  |  | 4.8                                   | Task name   |   | Drganize B2B match-ı<br>indirect exporting)                            | ternational investors  |  |                                 |  |
|---|--|---------------------------------------|---|---|--|--|--|---------------------------------|--|
| Priority  | riority 2 Predecessor tasks  |                                       | -   | -   |  | % Complete   | 0%   |                                 |  |
| Descript  | ion & rational   | е                                     |   |   |  |  |  |                                 |  |
| between<br>on these<br>internation  | local IT enter<br>linkages, Kosc<br>onal markets t   | prises and<br>ovo IT cor<br>through r | ional business oppor<br>d international invest<br>npanies will not only<br>eferrals by these inve<br>vo IT companies will | ors<br>win<br>esto  | (FDI) / multinational<br>new clients on the d<br>rs / MNCs to their pa | corporations (<br>lomestic mark<br>rent company                                    | (MNCs) in Koso<br>et but also get<br>or to other cli   | ovo. Based<br>access to<br>ents |  |
| User story & results As a Kosovo IT company I want to use B2B match-making events with international investors so that I can win new clients and business partners. |  |                                       |   |   |  |  |  | nal                             |  |
| -   |  |                                       | mak   | events with international investors implemented / year.<br>naking events at least 3 business cooperations / contracts / |  |  |  |                                 |  |
| Responsible<br>organization (lead)  |  | STIKK                                 |   |   | Partner<br>organizations   | Foreign Chambers (e.g. AmCh<br>KDWV, WKO),Embassies, KIES<br>GIZ, NMFA, SDC, USAID |  |                                 |  |
| Task start: 1.05.2016   |  |                                       | 16  |   | Task finish  | 3.11.2018  |  |                                 |  |
| Overall I   | oudget (€)   | 20,000                                |   |   | Financial sources  | GIZ, NMFA, SDC, USAID  |  |                                 |  |
| Task act  | ivities:   |                                       |   |   |  |  |  |                                 |  |
| No  | Activity   |                                       |   | De  | eliverables:   | Resp.  | Timing   | Budget                          |  |
| 4.8.1   | Create concept for B2B match-making<br>events (format, agenda, duration,<br>financing, marketing, etc.)  |                                       |   | Co  | ncept  | GIZ  | 1.05<br>2.05.2016                                      | 2,000                           |  |
| 4.8.2   | Conduct IT needs assessment of foreign investors in Kosovo (interviews)  |                                       |   |   | needs assessment<br>port (PPT)   | SDC  | 7.05<br>23.05.2016                                     | 6,000                           |  |
| 4.8.3   | Definition of IT product / service<br>portfolio (individually on company level<br>as well as cluster-based: "integrated<br>service portfolio") |                                       |   | pro   | scription of IT<br>oduct / service<br>rtfolio                          | STIKK, IT<br>companies   | 26.05.2016   | 1,000                           |  |
| 4.8.4   | Organization and implementation of B2B<br>match-making events (e.g. in the form of<br>an "STIKK IT Brunch")                                    |                                       |   | pre   | ogram, company<br>esentations, list of<br>rticipants                   | STIKK, IT<br>companies   | 4.03.2017 /<br>2.11.2017 /<br>2.03.2018 /<br>2.11.2018 | 8,000                           |  |
| 4.8.5   | Provide business-development support<br>(follow-up) to the companies after the<br>match-making event   |                                       |   | Eva   | aluation reports   | STIKK, SDC,<br>GIZ   | 4.11.2016 /<br>5.05.2017 /<br>3.11.2017 /              | 3,000                           |  |

| Task No.  | 4.8  | Task name | Organize B2B match-making with international investors (indirect exporting) |  |  |  |  |  |
|---|------|-----------|---|--|--|--|--|--|
|   |      |           | 3.05.2018 /<br>3.11.2018  |  |  |  |  |  |
| CommentsThe match-making events should be organized and implemented in close cooperation of<br>the corresponding foreign chambers of commerce (e.g. WKO, KDWV, AmCham, etc.).<br>It is important to communicate effectively the business case / benefits for internationa<br>investors resulting from a cooperation with Kosovo IT companies (e.g. local IT know-ho<br> |      |           |   |  |  |  |  |  |
| Team  | n.a. | n.a.      |   |  |  |  |  |  |
| Continuous<br>Improvement   | n.a. |           |   |  |  |  |  |  |

# 5.1.4.9. Introduce financial incentive scheme for stimulating IT usage in SMEs (iSME)

| Task No             |   | 4.9                        | Task name                 |                    | ntroduce financial in<br>n SMEs (iSME)          | centive schem                   | e for stimulati     | ng IT usage |
|---------------------|---|----------------------------|---------------------------|--------------------|---|---------------------------------|---------------------|-------------|
| Priority            |   | 2                          | Predecessor tasks         | -                  |   |                                 | % Complete          | 0%          |
| Descript            | tion & rational   | e                          |                           |                    |   |                                 |                     |             |
|                     |   |                            |                           |                    | incentive scheme in c<br>ustries and sectors of |                                 |                     | IT in small |
| User sto            | ory & results   | introdu                    | . , , , ,                 |                    | ant to use the financi<br>npany and thereby in  |                                 |                     | l can       |
| Accepta<br>& indica | nce criteria<br>itors   | <ul> <li>At let</li> </ul> |                           |                    | or stimulating IT usag<br>T) / year made use o  |                                 |                     |             |
| Respons<br>organiza | nsible KIESA<br>ization (lead)  |                            |                           |                    | Partner<br>organizations                        | MF, KIESA, MTI, USAID, EU, EBRD |                     |             |
| Task sta            | rt:   | 02.02.2                    | 017                       |                    | Task finish                                     | 29.12.2018                      |                     |             |
| Overall             | budget (€)  | 2,02,201                   | .5                        |                    | Financial sources                               | MF, USAID, E                    | U, EBRD             |             |
| Task act            | ivities:  |                            |                           |                    |   |                                 |                     |             |
| No                  | Activity  |                            |                           | D                  | eliverables:                                    | Resp.                           | Timing              | Budget      |
| 4.9.1               | (financial ins procedures,  | truments<br>eligibility    |                           | Co                 | ncept   | MF, KIESA                       | 2.02<br>11.02.2017  | 8,000       |
| 4.9.2               | Allocate bud scheme for S   | -                          | nancial incentive<br>IE)  | Bu                 | ldget   | MF                              | 12.02<br>27.02.2017 | 2,000,000   |
| 4.9.3               | 4.9.3 Launch information campaign on<br>financial incentive scheme for SMEs<br>(website, marketing material,<br>information events, etc.) |                            | eme for SMEs<br>naterial, | Marketing material |   | KIESA                           | 2.03<br>13.03.2017  | 10,000      |
| 4.9.4               | Implement f   | inancial ir                | ncentive scheme           | Re                 | ports   | KIESA                           | 16.03.2017<br>-     | 45,000      |

| Task No   |  | 4.9        | Task name                           | Introduce financial incentive scheme for stimulating IT usage in SMEs (iSME)                 |                 |  |                        |  |  |
|---|--|------------|-------------------------------------|--|-----------------|--|------------------------|--|--|
|   |  |            |                                     | -  |                 | 30.12.2018   |                        |  |  |
| 4.9.5   |  | entive sch | nd evaluation of<br>eme program for | Evaluation reports   | KIESA           | 1.06<br>30.12.2018                                 | 9,000                  |  |  |
| Comments       The financial incentive schem purchase, implementation ar form of grants.         Best practice examples:       Brazil: SOFTEX: <a href="http://www.sgingapore">http://www.sgingapore</a> : Sectoral Productive <a href="http://www.ida.gov.sg/blog/Singapore">http://www.ida.gov.sg/blog/Singapore</a> : SaaS CFC:         http://www.ida.gov.sg/blog/Germany: EBIGO:       http://innc |  |            |                                     | d management. Finan<br>oftex.br<br>ity CFC:<br>nsg/featured/s42m-se<br>nsg/egov-sectors/saas | cial incentives | s should be prov<br>for-sme-produc<br>sector-smes/ | ided in the<br>tivity/ |  |  |
| Team  |  | n.a.       |                                     |  |                 |  |                        |  |  |
| Continu<br>Improve  |  | n.a.       |                                     |  |                 |  |                        |  |  |

### 5.1.4.10. Develop digital maturity assessment tool

| Task No.   |   | 4.10                                 | Task name   | 0                     | Develop digital matur   | ity assessmen                      | t tool              |          |
|--|---|--------------------------------------|---|-----------------------|---|------------------------------------|---------------------|----------|
| Priority   |   | 2                                    | Predecessor tasks   | -                     |   |                                    | % Complete          | 0%       |
| Descript   | ion & rational  | е                                    |   |                       |   |                                    |                     |          |
| innovatio<br>identify p<br>At the sau  | n and compe<br>otential for ir<br>me time, the o  | titiveness<br>nproveme<br>digital ma | . Using the tool will a<br>ent in terms of IT / di<br>turity assessment too | llow<br>gita<br>ol al | s on the importance<br>v local companies to a<br>l technologies.<br>llows STIKK and the K<br>s and to identify pote | assess their di                    | gital maturity a    | and to   |
| User sto   | User story & results As a Kosovo company I want to use the tool in order to assess the digital maturity of my enterprise and to identify potential for improvement in terms of IT.                                |                                      |   |                       |   |                                    |                     |          |
|  | <ul> <li>Acceptance criteria</li> <li>The digital maturity assessment tool is fully operational.</li> <li>At least 20 companies (non-IT) / year have made use of the digital maturity assessment tool.</li> </ul> |                                      |   |                       |   |                                    |                     | sessment |
| Respons<br>organiza  | ible<br>tion (lead)   | STIKK                                |   |                       | Partner<br>organizations  | UNIV, KIESA, MTI, GIZ, NMFA, USAID |                     |          |
| Task star  | ·t:   | 15.05.2                              | 017   |                       | Task finish   | 31.12.2017                         |                     |          |
| Overall b  | oudget (€)  | 31,000                               |   |                       | Financial sources   | GIZ, NMFA, L                       | JSAID               |          |
| Task acti  | vities:   |                                      |   |                       |   |                                    |                     |          |
| No   | Activity  |                                      |   | De                    | eliverables:  | Resp.                              | Timing              | Budget   |
| 4.10.1   | 1 Develop digital maturity assessment tool (online version)   |                                      |   |                       | gital maturity<br>sessment tool   | GIZ                                | 15.05<br>31.08.2017 | 20,000   |
| 4.10.2 Integrate digital maturity assessment tool into STIKK website and conduct information event with press conference |   |                                      |   |                       |   |                                    | 1.09<br>15.09.2017  | 3,000    |

| Task No  |                               | 4.10 | Task name                            | Develop digital maturity assessment tool |       |                     |       |  |  |
|--|-------------------------------|------|--------------------------------------|--|-------|---------------------|-------|--|--|
| 4.10.3   | Implement of (fully automatic | -    | curity assessment<br>ne version)     | Number of registrations                  | STIKK | 16.09<br>30.10.2017 | 3,000 |  |  |
| 4.10.4   |                               |      | port on digital<br>compiled results) | Report                                   | STIKK | 2.11<br>31.12.2017  | 5,000 |  |  |
| Comments<br>The digital maturity assessme<br>Marketing / custom<br>Brand<br>Operations<br>Business models<br>Capabilities<br>Digital vision<br>Engagement<br>Governance<br>Skills<br>Note: For the online version<br>protection need to be taken |                               |      |                                      | er interaction<br>of the digital matur   |       |                     | ita   |  |  |
| Team n.a.  |                               |      |                                      |  |       |                     |       |  |  |
| Continuous n.a.<br>Improvement   |                               |      |                                      |  |       |                     |       |  |  |

## 5.1.5. Strategic Pillar 5: IT Education

# 5.1.5.1. Implement continuous improvement system for IT education curricula in Kosovo

| Task No.   | 5.1   | Task name   | Implement continuou<br>education in Kosovo | plement continuous improvement system for IT<br>lucation in Kosovo |                |          |  |  |  |  |
|--|---|---|--|--|----------------|----------|--|--|--|--|
| Priority   | 1   | Predecessor tasks   | -  |  | % Complete     | 0%       |  |  |  |  |
| Description & rational   | е   |   |  |  |                |          |  |  |  |  |
| Education and human resource excellence are the key determinants of Kosovo's IT industry competitiveness.<br>Therefore this task is directed at promoting education and human resources excellence by continuously monitoring,<br>evaluating and improving IT education in Kosovo (particularly on the university level) based on close cooperation<br>between STIKK (private sector), universities, schools and relevant ministries. This task involves the establishment of<br>corresponding methodologies, processes and organizational structures as well as the implementation of operational<br>measures such as the integration of applied courses and lectures by IT professionals into curricula. |   |   |  |  |                |          |  |  |  |  |
| User story & results   |   | sovo IT industry stakeh<br>ation in order to promo  |  |  |                | stem for |  |  |  |  |
| Acceptance criteria<br>& indicators  | <ul> <li>Reco<br/>publ</li> <li>At let</li> </ul> | <ul> <li>Recommendations on IT education curricula in Kosovo are being elaborated and<br/>published on an annual basis.</li> </ul>  |  |  |                |          |  |  |  |  |
| Responsible<br>organization (lead)   | STIKK   | STIKK         Partner         UNIV, MASHT, National Qualification           organizations         Agency, SDC, NMFA, EU, USAID, GIZ |  |  |                |          |  |  |  |  |
| Task start:  | 01.04.2   | 1.04.2017 Task finish 30.12.2018  |  |  |                |          |  |  |  |  |
| Overall budget (€)   | 140,000   |   | Financial sources                          | SDC, NMFA, I   | EU, USAID, GIZ |          |  |  |  |  |

| Task No | 0.   | 5.1   | Task name  | Implement continuc<br>education in Kosovo   | -   | nent system for I                    | Т                   |
|---------|--|---|--|---|---|--------------------------------------|---------------------|
| Task ac | ctivities:   |   |  |   |   |                                      |                     |
| No      | Activity   |   |  | Deliverables:   | Resp.   | Timing                               | Budget              |
| 5.1.1   | education in<br>Competence<br>topics) inclue       | Kosovo (<br>groups fo<br>ding all re<br>and defi  | tence group on IT<br>see Task 6.10<br>or strategic IT<br>levant<br>ne guidelines for | Guidelines; list of<br>members  | STIKK   | 1.04<br>9.04.2017                    | 1,000               |
| 5.1.2   |  | on curricı  | nd benchmarking<br>ula in Kosovo<br>ols)   | Report  | STIKK   | 10.04<br>8.05.2017                   | 7,000               |
| 5.1.3   | _  |   |  | Recommendations   | STIKK   | 11.05<br>29.05.2017                  | 10,000              |
| 5.1.4   | IT qualification<br>profiles (e.g.<br>software dev | on profile<br>software<br>velopmen<br>esting, sys | stem integration   | IT qualification<br>profiles /<br>competence profiles   | STIKK   | 1.06<br>22.06.2017                   | 10,000              |
| 5.1.5   | conference t                                       | o present   | event and press<br>t recommendations<br>ula in Kosovo                                | Program;<br>presentation; list of<br>participants   | STIKK   | 30.06.2017<br>/<br>30.06.2018        | 3,000               |
| 5.1.6   | software tes                                       | ting (inclu<br>) as comp                          | ulsory subjects into   | Revised curricula;<br>certified students  | UNIV  | 13.04<br>30.12.2017                  | 4,000               |
| 5.1.7   | programs int                                       | to the cur  | ed certification<br>riculum (e.g. ITIL,<br>, PMP, PRINCE2,                           | Course descriptions;<br>certified students  | UNIV  | 13.04<br>30.12.2017                  | 90,000              |
| 5.1.8   | Develop and<br>and lectures<br>(practitioner       | by IT pro   |  | Course descriptions and material  | STIKK   | 13.04<br>30.12.2018                  | 15,000              |
| Comme   | ents   | correspo<br>It is reco                            | onding recommendat   | is task, evaluation of ex<br>tions need to be implen<br>hmark Kosovo IT curricu<br>in strategic export mark | nented on a i<br>ula against co                   | regular basis (anı                   | nually).            |
|         | Beside<br>manag<br>capabi<br>Concer<br>lecture     |   | pure technical / engi<br>ment, project manag<br>ties") should be taker               | neering skills, also capa<br>ement as well as vertic<br>n into account (see also                            | bilities in the<br>al business p<br>results of th | rocess know-hov<br>e external analys | w ("hybrid<br>sis). |
|         |  |   | by IT professionals, u<br>y (see Task 2.1) in or                                     |   | perate closely                                    | y with the STIKK                     | Training            |
|         |  | latest te   | chnology trends inclu  | delivered by IT profess<br>uding mobile computing<br>ment, big data & analys                                | g, cloud com                                      | -                                    | -                   |

| Task No.                  | 5.1                  | Task name            | Implement continuous improvement system for IT education in Kosovo   |
|---------------------------|----------------------|----------------------|--|
|                           | Software<br>http://w | ww.basscom.org/activ | s for the Bulgarian education system:<br>/ <mark>ities?mi=4</mark><br>ation by the German Informatics Society: |
| Team                      |                      |                      | ikationen/empfehlungen.html  |
| Continuous<br>Improvement | n.a.                 |                      |  |

# 5.1.5.2. Implement international academic cooperation and exchange program

| Task No   |  | 5.2  | Task name  |   | mplement internatio<br>exchange program                                   | nal academic o                                 | cooperation ar                     | nd                      |  |
|---|--|--|--|---|---|--|------------------------------------|-------------------------|--|
| Priority  |  | 3  | Predecessor tasks  | -   |   |  | % Complete                         | 0%                      |  |
| Descript  | ion & rational   | e  |  |   |   |  |                                    |                         |  |
| and coop<br>that, this<br>IT educat   | peration, there<br>task intends t<br>tion and to ga  | eby facilita<br>to equip l'<br>in experie                    | rovide Kosovo univer<br>ating capacity buildin<br>T professors and stud<br>nce abroad. This task<br>ching and working ab | g ar<br>lent<br>c als   | nd the transfer of kno<br>is from Kosovo to lea<br>io includes the establ | ow-how and te<br>rn about inter                | echnology. In a<br>national best p | ddition to practices in |  |
| User sto  | ory & results  | coopera  | professor or student<br>tion programs to furt<br>ional experience.   |   | -   |  |                                    | -                       |  |
| <ul> <li>Acceptance criteria<br/>&amp; indicators</li> <li>At least 6 international academic cooperation agree<br/>At least 6 IT professors from universities in Wester<br/>teaching at universities in Kosovo.</li> <li>At least 30 students have participated in an intern</li> </ul> |  |  |  |   | ern Europe or t   | he US have be                                  | een                                |                         |  |
| •   | Responsible MASHT<br>organization (lead)   |  |  |   | Partner<br>organizations  | UNIV, STIKK, NMFA, SDC, ADA, USAID,<br>EU, GIZ |                                    |                         |  |
| Task sta  | rt:  | 2.02.20  | 17   |   | Task finish   | 30.12.2018                                     |                                    |                         |  |
| Overall   | budget (€)   | 510,000  |  |   | Financial sources   | NMFA, SDC, ADA, USAID, EU, GIZ                 |                                    |                         |  |
| Task act  | ivities:   |  |  |   |   |  |                                    |                         |  |
| No  | Activity   |  |  | D   | eliverables:  | Resp.  | Timing                             | Budget                  |  |
| 5.2.1   |  | and exch<br>ience (pro                                       | ange program for<br>ocedures, partner  | Pro   | ogram concept   | SDC  | 2.02<br>27.02.2017                 | 10,000                  |  |
| 5.2.2   | Implement international academic<br>cooperation and exchange program for<br>computer science |  | ag<br>ex   | operation<br>reements; list of<br>change professors<br>d students | MASHT   | 2.03.2017<br>-<br>30.12.2018                   | 300,000                            |                         |  |
| 5.2.3   |  | ish network of Kosovo academics<br>ng abroad (online portal) |  | Or  | line portal   | MASHT  | 2.03.2017<br>-<br>30.12.2018       | 15,000                  |  |
| 5.2.4   |  |  | n" program for<br>ademics working  | "В  | rain Gain" program  | MASHT  | 2.04.2017<br>-                     | 200,000                 |  |

| Task No. |  | 5.2 Task name Implement international acad exchange program |  | Implement international academic cooperation and exchange program |
|----------|--|---|--|---|
|          | abroad to return and teach at universities in Kosovo |   |  | 30.12.2018  |
| Commer   | Comments -   |   |  |   |
| Team     |  | n.a.  |  |   |
|          | Continuous n.a.<br>Improvement                       |   |  |   |

## 5.1.5.3. Introduce Student Placement Service (SPS)

| Task No  |  | 5.3   | Task name   | I                    | ntroduce Student Pla                                      | cement Servic   | ce (SPS)                     |             |  |
|--|--|---|---|----------------------|---|-----------------|------------------------------|-------------|--|
| Priority   |  | 2   | Predecessor tasks   | -                    |   |                 | % Complete                   | 0%          |  |
| Descript   | tion & rational  | е   |   |                      |   |                 |                              |             |  |
| The mair   | n goals of this t<br>Providing IT of<br>Employer brai<br>Infotainment<br>Providing stud<br>opportunities<br>Deepening co | task are:<br>ompanies<br>nding<br>and recru<br>lents and<br>in the Ko<br>operatior  | with suitable studen<br>tainment<br>graduates with the c<br>sovo IT industry<br>between universitie | ts a<br>oppo<br>s ar | ortunity to gain pract                                    | ical experience | es and find att              | ractive job |  |
| User story & results       As a Kosovo IT company I want to use the Student Placement Service to identify suitable students (interns) and graduates for my enterprise.         As a Kosovo IT student I want to use the Student Placement Service in order to find a suitable employer and to gain work experience in the IT industry. |  |   |   |                      |   |                 |                              |             |  |
| Accepta<br>& indica  | nce criteria<br>ators  | <ul> <li>At let</li> </ul>  |   |                      | ice (SPS) has been im<br>ates per year find a jo          | -               |                              |             |  |
| Respons<br>organiza  | sible<br>ation (lead)  | STIKK   |   |                      | Partner<br>organizations                                  | UNIV, NMFA, GIZ |                              |             |  |
| Task sta   | rt:  | 15.01.20  | )17   |                      | Task finish   | 30.12.2018      |                              |             |  |
| Overall  | budget (€)   | 23,000  |   |                      | Financial sources   | NMFA, GIZ       |                              |             |  |
| Task act   | ivities:   |   |   |                      |   |                 |                              |             |  |
| No   | Activity   |   |   | D                    | eliverables:  | Resp.           | Timing                       | Budget      |  |
| 5.3.1  | Placement So<br>description,<br>delivery mod   | evelop service concept for the Student<br>acement Service including service<br>escription, features, customer benefit,<br>elivery mode, process model,<br>emplates, financing |   | Se                   | rvice concept   | GIZ             | 15.01<br>30.01.2017          | 3,000       |  |
| 5.3.2  | Implement Student Placement Service,<br>including integration into STIKK job<br>exchange (see Task 6.6)                  |   |   |                      | b / internship<br>fers                                    | STIKK           | 2.02.2018                    | 6,000       |  |
| 5.3.3  |  | ervice for  | nt special Student<br>Kosovo students   | se                   | tension of the<br>rvice concept; job /<br>cernship offers | GIZ             | 2.03.2017<br>-<br>30.12.2018 | 5,000       |  |

| Task No            |     | 5.3  | Task name   | Introduce Student Placement Service (SPS)   |  |   |          |  |
|--------------------|-----|--|---|---|--|---|----------|--|
| 5.3.4              | -   | -  | t infotainment and for IT students  | Program; list of participants   | STIKK  | 1.10<br>3.10.2017 /<br>2.05.2018 /<br>3.10.2018 | 9,000    |  |
| Comme              | nts | should to<br>Best pra<br>BASSCO<br>IT FOR V<br>work.de<br>CYBERFO<br>business<br>For inclu | be integrated into the<br>ctice examples:<br>M: <u>http://www.basso</u><br>VORK: Jobtournee: <u>ht</u><br>/Inhalte/Kompetenz/<br>DRUM: Recrutainmer<br>speople/recruitainment<br>iding Kosovo student<br>I (e.g. association of k | <u>:com.org/jobs</u><br>: <u>tp://www.it-for-</u><br>/ <u>Services/2196676/Jo</u><br>it: <u>http://www.en.cyk</u> | <u>btournee.html</u><br>perforum.de/o<br>s of Kosovo stu | ffering/for-<br>idents should be                | actively |  |
| Team               |     | n.a.   |   |   |  |   |          |  |
| Continu<br>Improve |     | n.a.   |   |   |  |   |          |  |

## 5.1.5.4. Introduce Kosovo IT Scholarship Program

| Task N            | 0.                                       | 5.4   | Task name   | 1    | ntroduce Kosovo IT s               | cholarship pro                         | gram                         |            |  |
|-------------------|--|---|---|------|------------------------------------|--|------------------------------|------------|--|
| Priority          | y  | 1   | Predecessor tasks   | -    |                                    |  | % Complete                   | 0%         |  |
| Descri            | ption & rationa                          | le  |   |      |                                    |  |                              |            |  |
| are beiı          | ng financed by t<br>ter science and      | the Kosov   | s to promote high-po<br>o IT industry. Thereb<br>ne time the Kosovo I | y ur | nderprivileged studer              | nts get the opp                        | ortunity to stu              | idy        |  |
| User st           | tory & results                           |   | ovo IT company I wa<br>ote IT education and                           |      |                                    | osovo IT schol                         | arship progran               | n in order |  |
| Accept<br>& indic | ance criteria<br>cators                  | <ul><li>The Kosovo IT scholarship program is fully operational.</li><li>At least 5 students / year have received the Kosovo IT scholarship.</li></ul> |   |      |                                    |  |                              |            |  |
|                   | Responsible STIKK<br>organization (lead) |   |   |      | Partner<br>organizations           | UNIV, MASHT, IT companies, NMFA<br>SDC |                              |            |  |
| Task st           | art:                                     | 1.12.20   | 16  |      | Task finish                        | 30.12.2018                             |                              |            |  |
| Overal            | l budget (€)                             | 91,000  |   |      | Financial sources                  | IT companies                           | , NMFA, SDC                  |            |  |
| Task ad           | ctivities:                               |   |   |      |                                    |  |                              |            |  |
| No                | Activity                                 |   |   | D    | eliverables:                       | Resp.                                  | Timing                       | Budget     |  |
| 5.4.1             | scholarship p                            | op concept for the Kosovo IT<br>Irship program (application<br>ss, selection process, financing,  |   | Co   | ncept                              | <b>STIKK</b>                           | 1.12.2016<br>-<br>30.01.2017 | 1,000      |  |
| 5.4.2             |  | Implement and manage the Kosovo IT<br>scholarship program   |   |      | t of scholarship<br>Iders; reports | STIKK                                  | 2.02.2017<br>-<br>30.12.2018 | 90,000     |  |

| Task No.                  | 5.4   | Task name  | Introduce Kosovo IT scholarship program                              |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|--|--|
| Comments                  |   | ovo IT scholarship shou<br>from underprivileged  | IId be granted based on academic merit and should focus on families. |  |  |  |  |  |
|                           |   | nancing of the Kosovo IT scholarship should be based on a PPP-model including IT<br>mpanies, MASHT and donors. |  |  |  |  |  |  |
|                           | The scholarship program should include a compulsory internship in an IT company to students to obtain practical work experience.                                |  |  |  |  |  |  |  |
|                           | While the program will primarily focus on academic education in Kosovo it might be also advisable to provide scholarships for studying computer science abroad. |  |  |  |  |  |  |  |
| Team                      | n.a.  |  |  |  |  |  |  |  |
| Continuous<br>Improvement | n.a.  | n.a.   |  |  |  |  |  |  |

## 5.1.5.5. Introduce STIKK competence assessment standard for IT students

| Task No   |  | 5.5                                 | Task name   |                                   | ntroduce STIKK comp<br>tudents               | etence assess                    | ment standard                | l for IT |  |  |
|---|--|-------------------------------------|---|-----------------------------------|--|----------------------------------|------------------------------|----------|--|--|
| Priority  |  | 1                                   | Predecessor tasks   | -                                 |  |                                  | % Complete                   | 0%       |  |  |
| Descript  | ion & rational   | e                                   |   |                                   |  |                                  |                              |          |  |  |
| certificat  | ion for final ye   | ear and pi                          | nt and implementation<br>re-final year IT studer<br>rsities for continuous                    | nts i                             | n order to ensure en                         | nployability an                  | d quality and t              |          |  |  |
| User sto  | ry & results   | to ensur<br>As a Kos                | ovo IT company I wa<br>e employability of IT<br>ovo university I want<br>and continuous impro | stu<br>to                         | dents / graduates and use the STIKK compe    | d to evaluate j<br>tence assessm | ob candidates                |          |  |  |
| Acceptance criteria•The STIKK competence a& indicators•At least 100 students ha<br>until the end of 2018. |  |                                     |   |                                   |  |                                  | -                            |          |  |  |
| Responsible STIKK<br>organization (lead)  |  |                                     |   |                                   | Partner UNIV, MASHT, EU, USAID organizations |                                  |                              |          |  |  |
| Task sta  | rt:  | 02.11.2                             | 017   |                                   | Task finish                                  | 30.12.2018                       | 30.12.2018                   |          |  |  |
| Overall I   | oudget (€)   | 33,000                              |   |                                   | Financial sources EU, USAID                  |                                  |                              |          |  |  |
| Task act  | ivities:   |                                     |   |                                   |  |                                  |                              |          |  |  |
| No  | Activity   |                                     |   | D                                 | eliverables:                                 | Resp.                            | Timing                       | Budget   |  |  |
| 5.5.1   | assessment s<br>based on int   | standard<br>ernationa<br>est matrix | , employment  | Со                                | ncept  | STIKK                            | 2.11<br>30.11.2017           | 8,000    |  |  |
| 5.5.2 Implement and manage STIKK<br>competence assessment standard for IT<br>students                     |  |                                     | -   | Test system;<br>evaluation report |  | STIKK                            | 1.12.2017<br>-<br>30.12.2018 | 25,000   |  |  |
| Comme   | Comments STIKK competence assessme<br>IT standards. Particularly EU<br>Best practice examples:<br>India: NASSCOM Assessmen |                                     |   | qua                               | lification frameworks                        | need to be ta                    | ken into accou               |          |  |  |

| Task No.                  | 5.5  | Task name | Introduce STIKK competence assessment standard for IT students |
|---------------------------|------|-----------|--|
| Team                      | n.a. |           |  |
| Continuous<br>Improvement | n.a. |           |  |

### 5.1.5.6. Establish university ranking (IT)

| Task No   |  | 5.6         | Task name                                       | E    | stablish university ra                         | inking (IT)                |                    |                           |  |  |
|---|--|-------------|---|------|--|----------------------------|--------------------|---------------------------|--|--|
| Priority  |  | 3           | Predecessor tasks                               | -    |  |                            | % Complete         | 0%                        |  |  |
| Descript  | ion & rational   | е           |   |      |  |                            |                    |                           |  |  |
|   |  |             |   |      | stem for IT-related d<br>n the Kosovo IT educa |                            | ns at Kosovo u     | niversities               |  |  |
| User sto  | ry & results   |             | ovo IT company I wa<br>verview on IT educat     |      | o use the university r<br>in Kosovo.           | anking system              | (IT) so that I o   | an get a                  |  |  |
|   |  |             | dent I want to use the<br>er science degree pro |      | iversity ranking syste<br>m for me.            | em (IT) as a too           | ol for selecting   | a suitable                |  |  |
| Acceptance criteria•The university ranking system (& indicators•At least one university ranking |  |             |   |      |  |                            | e end of 2018.     |                           |  |  |
| •   | Responsible STIKK<br>organization (lead)                     |             |   |      | Partner<br>organizations                       | UNIV, MASHT, EU, NMFA, GIZ |                    |                           |  |  |
| Task sta  | rt:  | 4.01.20     | 18  |      | Task finish                                    | 30.12.2018                 |                    |                           |  |  |
| Overall   | oudget (€)   | 11,000      |   |      | Financial sources                              | EU                         | EU                 |                           |  |  |
| Task act  | ivities:   |             |   |      |  |                            |                    |                           |  |  |
| No  | Activity   |             |   | D    | eliverables:                                   | Resp.                      | Timing             | Budget                    |  |  |
| 5.6.1   |  |             | niversity ranking<br>tion criteria, etc.)       | Co   | ncept  | STIKK                      | 4.01<br>29.01.2018 | 5,000                     |  |  |
| 5.6.2   | Conduct univ<br>years)                                       | versity rar | nking (every 2                                  |      | st system;<br>aluation report                  | STIKK                      | 1.02<br>30.12.2018 | 6,000<br>(per<br>ranking) |  |  |
| Comme   | Comments Best practice examples:<br>CHE Ranking: http://www. |             |   | e-ra | nking.de                                       |                            |                    |                           |  |  |
| Team  |  | n.a.        |   |      |  |                            |                    |                           |  |  |
| Continu<br>Improve  |  | n.a.        |   |      |  |                            |                    |                           |  |  |

#### 5.1.5.7. Introduce National Hackathon / IT Olympics

| Task No.  | 5.7 | Task name         | Introduce National IT Olympics |            |    |  |  |  |  |
|---|-----|-------------------|--------------------------------|------------|----|--|--|--|--|
| Priority  | 2   | Predecessor tasks | -                              | % Complete | 0% |  |  |  |  |
| Description & rationale   |     |                   |                                |            |    |  |  |  |  |
| This task includes the introduction of the National IT Olympics in the form of a national informatics and programming contest for Kosovo. Its main goals are: |     |                   |                                |            |    |  |  |  |  |

| Task No.  |   | 5.7                      | Task name     | lı          | ntroduce National IT         | Olympics     |                               |   |  |  |
|---|---|--------------------------|---------------|-------------|------------------------------|--------------|-------------------------------|---|--|--|
| <ul> <li>Promoting IT talent and HR excellence in Kosovo</li> <li>Motivating and mobilizing</li> <li>Raising the awareness on the importance of IT education</li> <li>Recrutainment and employer branding for the Kosovo IT industry</li> <li>The National IT Olympics will be organized annually in a partnership of STIKK, IT companies, universities and the government.</li> <li>In order to increase its visibility and reputation, the National IT Olympics will be organized under the patronage of the Prime Minister of the Republic of Kosovo.</li> <li>User story &amp; results</li> <li>As a Kosovo IT industry stakeholder I want to use the National IT Olympics to promote IT talent and HR excellence in Kosovo.</li> <li>As a Kosovo IT company I want to use the National IT Olympics for recrutainment and employer branding.</li> </ul> |   |                          |               |             |                              |              |                               |   |  |  |
| Acceptance criteria & indicators • The National IT Olympics have been conducted in 2017 and 2018 with at least 60 participants / event.   |   |                          |               |             |                              |              |                               |   |  |  |
| Respons<br>organiza   | ible<br>tion (lead)   | STIKK                    |               |             | Partner<br>organizations     | UNIV, MSHT,  | ZKM, EU, NM                   | IFA, GIZ  |  |  |
| Task star   | t:  | 2.03.201                 | 7             |             | Task finish                  | 16.05.2018   |                               |   |  |  |
| Overall b   | oudget (€)  | 6,000                    |               |             | Financial sources            | EU, NMFA     |                               |   |  |  |
| Task acti   | vities:   |                          |               |             |                              |              |                               |   |  |  |
| No  | Activity  |                          |               | De          | eliverables:                 | Resp.        | Timing                        | Budget  |  |  |
| 5.7.1   | Develop con<br>Olympics (fo<br>organization<br>sponsorship, | rmat, pro<br>, applicati | gram,         | Со          | ncept                        | <b>STIKK</b> | 2.03<br>16.03.2017            | 3,000   |  |  |
| 5.7.2   | Organize Nat<br>annual basis                                | tional IT C              | lympics on an |             | ogram; list of<br>rticipants | STIKK        | 15.05.2017<br>/<br>16.05.2018 | 3,000<br>(addition-<br>al budget<br>from<br>sponsor-<br>ship) |  |  |
| Comments The National IT Olympics co<br>competitions, hackathons, e<br>Best practice examples:<br>CodeIT: <u>http://codeit.bg/en</u><br>hackMIT: <u>http://www.hacku</u><br>National Infocomm Compet  |   |                          |               | c.<br>it.or | Έ.                           |              | ch as program                 | iming   |  |  |
| BUTeam  |   | n.a.                     |               |             |                              |              |                               |   |  |  |
| Continuo<br>Improve   |   | n.a.                     |               |             |                              |              |                               |   |  |  |

# 5.1.5.8. Promoting part-time and distance learning IT education

| Task No.                | 5.8 | Task name         | Promoting part-time and distance learning IT education |            |    |  |  |  |  |
|-------------------------|-----|-------------------|--|------------|----|--|--|--|--|
| Priority                | 3   | Predecessor tasks | -  | % Complete | 0% |  |  |  |  |
| Description & rationale |     |                   |  |            |    |  |  |  |  |

| Task No  | ).  | 5.8  | Task name  | P                              | Promoting part-time  | and distance le                                   | earning IT edu                                    | cation                         |  |
|--|---|--|--|--------------------------------|--|---|---|--------------------------------|--|
| competi<br>compete<br>Hence, t                                   | tiveness of the<br>ences are quicl<br>his task will pr<br>cy degree while | e Kosovo ľ<br>kly changi<br>omote pa                       | n resource excellence<br>T industry. At the sar<br>ng, making life-long l<br>rt-time and distance<br>. This task is particula  | ne t<br>eari<br>leai           | ime, requirements con<br>ning and qualification<br>rning IT education, al        | oncerning tech<br>a key success<br>lowing profess | nnical skills and<br>s factor.<br>sionals to obta | iin a                          |  |
|  | ory & results   | to impro<br>experts.<br>As a Kos<br>the skills<br>As a pro | ovo IT industry stake<br>we the qualitative an<br>ovo IT company I wa<br>and capabilities of n<br>fessional I want to us<br>cy degree while work   | d qu<br>nt to<br>ny s<br>se pa | uantitative output of<br>o use part-time and o<br>taff.<br>art-time and distance | universities ir<br>distance learni                | i Kosovo in ter<br>ng programs t                  | ms of IT<br>o improve          |  |
| Accepta<br>& indica  | ance criteria<br>ators  |  | ast two new part-tin<br>ects (Bachelor, Maste  |                                |  |   |   |                                |  |
| Respon<br>organiz  | sible<br>ation (lead)   | UNIV   |  |                                | Partner<br>organizations   |   | T, National Qu<br>USAID, NMFA,                    |                                |  |
| Task sta   | irt:  | 01.01.2  | 018  |                                | Task finish  | 30.12.2018  |   |                                |  |
| Overall  | budget (€)  | 78,000   |  |                                | Financial sources  | MSHT, EU, USAID                                   |   |                                |  |
| Task ac  | tivities:   |  |  |                                |  |   |   |                                |  |
| No   | Activity  |  |  | De                             | eliverables:   | Resp.   | Timing  | Budget                         |  |
| 5.8.1  |   |  | ment for part-time<br>IT education   |                                | eds assessment<br>port   | STIKK   | 1.01<br>29.01.2018                                | 8,000                          |  |
| 5.8.2  | Develop curi<br>distance lear   |  | part-time and<br>lucation  | Cu                             | rricula  | UNIV  | 1.02<br>30.03.2018                                | 10,000                         |  |
| 5.8.3  | Implement p<br>learning IT e  |  |  | Re                             | ports  | UNIV  | 31.03<br>30.12.2018                               | 60,000<br>(initial<br>funding) |  |
| gener<br>It is re<br>abroa<br>imple<br>this w<br>Strate<br>shoul |   |  | <ul> <li>This task needs to be closely coordinated with Task 2.1 STIKK Training Academy in order to generate synergies.</li> <li>t is recommendable to establish academic cooperation / strategic alliances with universities abroad which also have the necessary know-how and experience in developing and mplementing part-time and distance learning IT education programs. In addition to that, this would also promote know-how transfer to Kosovo.</li> <li>Strategic cooperations with renowned providers of Massive Open Online Courses (MOOC) should be established such as:</li> <li>Coursera: https://www.coursera.org</li> <li>edX: https://www.edx.org</li> <li>The Website of STIKK/STIKK Training Academy should be directly linked to these providers.</li> </ul> |                                |  |   |   |                                |  |
| Team   |   | n.a.   | I: <u>https://openhpi.de</u>   | -                              |  |   |   |                                |  |
| Continu<br>Improve   |   | n.a.   |  |                                |  |   |   |                                |  |

## 5.1.5.9. Establish Kosovo Institute of Digital Technology (PPP)

| Task No  | ).   | 5.9   | Task name   | E              | stablish Kosovo Inst                        | tute of Digital   | Technology (P                | PP)       |
|--|--|---|---|----------------|---|---|------------------------------|-----------|
| Priority   |  | 3   | Predecessor tasks                                   | -              |   |   | % Complete                   | 0%        |
| Descrip  | tion & rational  | e   |   |                |   |   |                              | -         |
| The KID  | Bundling the of<br>Promoting an<br>Coordinating<br>Fostering inte<br>Promoting dig | competen<br>d coordin<br>the Comp<br>rdisciplina<br>gital trans<br>ablished | formation in Kosovo<br>within a future ICT M        | gital<br>pplio | technology<br>ed R&D in strategic I<br>try. | T topics (see Ta  | -                            |           |
| User sto   | ory & results  | to prom<br>applied  |   | atio           | n in Kosovo and to c                        | oordinate IT eo   | ducation as we               | ll as     |
| Accepta<br>& indica  | ance criteria<br>ators   | <ul> <li>The</li> </ul>   | Kosovo Institute of D                               | igita          | al Technology has be                        | en established  | l and is fully op            | erational |
| -  | Responsible MZHE, MASHT<br>organization (lead)                                     |   |   |                | Partner<br>organizations                    | STIKK, UNIV, National Qualification<br>Agency, MTI, EU, USAID, NMFA, GIZ<br>SDC |                              |           |
| Task start: 01.04.2017   |  |   |   |                | Task finish                                 | 30.12.2018  |                              |           |
| Overall  | budget (€)   | 318,000   |   |                | Financial sources                           | MZHE, EU  |                              |           |
| Task ac  | tivities:  |   |   |                |   |   |                              |           |
| No   | Activity   |   |   | D              | eliverables:                                | Resp.   | Timing                       | Budget    |
| 5.9.1  |  | ganizatio   | the KIDT including nal structure,                   | Co             | ncept                                       | MZHE  | 1.04<br>29.05.2017           | 15,000    |
| 5.9.2  | Establish and  | d manage  | the KIDT  | An             | nual reports                                | MZHE  | 1.06.2017<br>-<br>30.12.2018 | 300,000   |
| 5.9.3  |  | research  | with relevant institutes and                        | Mo             | oUs   | SDC   | 2.02<br>30.12.2018           | 3,000     |
| Comments This task needs to be closely<br>R&D in strategic IT topics.<br>Best practice examples:<br>Information Technology Inst<br>Romania: National Institute<br>http://www.ici.ro/IClenglish |  | tute<br>or R  | e (ITI): <u>http://www.it</u><br>esearch & Developn | i.gov.eg       |   | oplied  |                              |           |
| Team   |  | n.a.  |   |                |   |   |                              |           |
| Continu<br>Improve   |  | n.a.  |   |                |   |   |                              |           |

## 5.1.5.10. Promote MINT subjects in primary and secondary education

| Task No  | ).  | 5.10                    | Task name  | F   | Promote MINT subject  | cts in primary a                | and secondary                | education  |
|--|---|-------------------------|--|---|---|---------------------------------|------------------------------|------------|
| Priority   |   | 1                       | Predecessor tasks  | -   |   |                                 | % Complete                   | 0%         |
| Descrip  | tion & rational   | e                       |  |   |   |                                 |                              | ·          |
| term bas<br>and seco   | sis by fostering<br>ondary educati  | s MINT (m<br>on. This v | romote human resou<br>athematics, informa<br>vill motivate and insp<br>nation and the know | tion<br>bire  | sciences, natural sci<br>future talent to study                                 | ences, techno<br>y MINT subject | logy) subjects               | in primary |
| User sto   | ory & results   |                         | ovo IT industry stake<br>ry education in orde  |   | -   | e MINT subjec                   | ts in primary a              | ind        |
| <ul> <li>Acceptance criteria<br/>&amp; indicators</li> <li>The number of lessons<br/>the end of 2018.</li> <li>At least 300 teachers h<br/>training) in teaching IT</li> </ul> |   |                         |  |   | uccessfully completed   |                                 |                              | -          |
| Responsible MASHT<br>organization (lead)   |   |                         |  | Partner<br>organizations  | STIKK, UNIV, National Qualification<br>Agency, EU, USAID, NMFA, GIZ, SDC<br>ADA |                                 |                              |            |
| Task start: 01.06.2017   |   |                         | 017  |   | Task finish   | 30.12.2018                      |                              |            |
| Overall  | budget (€)  | 510,000                 |  |   | Financial sources   | MASHT, EU                       |                              |            |
| Task ac  | tivities:   |                         |  |   |   |                                 |                              |            |
| No   | Activity  |                         |  | D   | eliverables:  | Resp.                           | Timing                       | Budget     |
| 5.10.1   |   | -                       | now to promote<br>ary and secondary  | Pro   | oposal  | MASHT                           | 1.06<br>30.06.2017           | 10,000     |
| 5.10.2   |   | ng MINT s               | nplement proposal<br>ubjects in primary<br>;ion  | Re  | port  | MASHT                           | 1.07.2017<br>-<br>30.12.2018 | 300,000    |
| 5.10.3   | Develop and implement further<br>education program (teacher-training) in<br>teaching IT subjects / computer science |                         | pro<br>tea<br>co   | rther education<br>ogram; list of<br>achers who have<br>mpleted teacher-<br>iining in IT subjects | MASHT   | 15.07.2017<br>-<br>30.12.2018   | 200,000                      |            |
| Comments -   |   |                         |  |   |   |                                 |                              | •          |
| Team   |   | n.a.                    |  |   |   |                                 |                              |            |
| Continuous n.a.<br>Improvement   |   |                         |  |   |   |                                 |                              |            |

### 5.1.5.11. Promote university alliance programs

| Task No                                   |   | 5.11   | Task name   | F                         | Promote university al                   | liance progran  | ns                           |  |
|---|---|--|---|---------------------------|---|---|------------------------------|--|
| Priority                                  |   | 3  | Predecessor tasks   | -                         |   |   | % Complete                   | 0%   |
| Descript                                  | ion & rational  | е  |   |                           |   |   |                              |  |
| universit                                 | ies and multin<br>Promote tech<br>Provide stude<br>Donation of so<br>Provide stude<br>Organize spec | ational IT<br>nology tra<br>nts with s<br>oftware li<br>nts with i<br>ial course | to establish special of<br>companies and softwansfer<br>skills in leading IT / so<br>cences to universities<br>nternational internshes, lectures and traini<br>d R&D projects | waro<br>oftw<br>s<br>nips | e vendors with the ai                   | m to:   |                              | osovo  |
| User sto                                  | ry & results  |  | ovo IT industry stake<br>llence and skills deve   |                           |   | versity alliance  | programs to                  | oromote  |
| Accepta<br>& indica                       | nce criteria<br>tors  | • At le  | east 2 university alliar  | nce                       | programs have been                      | implemented   | until the end                | of 2018.   |
| •   | Responsible UNIV<br>organization (lead)   |  |   |                           | Partner<br>organizations                | MASHT, STIKK, National Qualificatio<br>Agency, EU, USAID, NMFA, GIZ |                              |  |
| Task sta                                  | start: 1.10.2017  |  |   |                           | Task finish                             | 30.12.2018  |                              |  |
| Overall budget (€) 6,000                  |   |  |   | Financial sources         | University alliance partners, EU, USAID |   |                              |  |
| Task act                                  | ivities:  |  |   |                           |   |   |                              |  |
| No  | Activity  |  |   | D                         | eliverables:                            | Resp.   | Timing                       | Budget   |
| 5.11.1                                    |   | peration   | ice partners and<br>(multinational IT<br>are vendors)   | -                         | t of suitable<br>ance partners          | STIKK   | 1.10<br>30.10.2017           | 3,000  |
| 5.11.2                                    | Establish and<br>alliance prog  | -  | ent university  | M                         | bUs                                     | UNIV  | 2.11.2017<br>-<br>30.12.2018 | 3,000<br>Financing<br>by<br>alliance<br>partners |
| and PMP into uni<br>Best practice example |   | versity Alliances: <u>http</u>   | nce   | programs.                 |   |   |                              |  |
| Team                                      |   | n.a.   |   |                           |   |   |                              |  |
| Continu<br>Improve                        |   | n.a.   |   |                           |   |   |                              |  |

## 5.1.5.12. Introduce vocational education for IT

| Task No   |  | 5.12                                 | Task name  | I   | ntroduce vocational   | education for  | IT  |                                |  |  |
|---|--|--------------------------------------|--|---|---|--|---|--------------------------------|--|--|
| Priority  |  | 1                                    | Predecessor tasks  | -   |   |  | % Complete  | 0%                             |  |  |
| Descrip   | tion & rationa   | le                                   |  |   |   |  |   |                                |  |  |
| order to<br>educatic<br>who are<br>qualifica  | address this c<br>n. The overall<br>able to bridge<br>tion profiles. | hallenge a<br>objective<br>the exist | ous challenge for the<br>a second line of IT qu<br>of vocational IT edu<br>ing qualification gap | alifi<br>catio<br>with                        | cation will be introdu<br>on in Kosovo will be t<br>hin the Kosovo IT labo  | uced in the for<br>to produce hig<br>our market and                                | m of vocationa<br>hly-qualified II<br>d to compleme   | l<br>specialist<br>nt existing |  |  |
| User sto  | ory & results  |                                      | ovo IT company I wa<br>my enterprise   | nt to   | o use vocational educ   | cation for IT sc   | o that I can find                                     | l suitable                     |  |  |
| Accepta<br>& indica   | nce criteria<br>Itors  | <ul> <li>At let</li> </ul>           | east 2 vocational train  | ning  | schools for IT have b   | oeen establishe  | ed.   |                                |  |  |
| Responsible MZHE, MASHT<br>organization (lead)  |  |                                      |  |   | Partner<br>organizations  | STIKK, Natior<br>EU, NMFA, G   | nal Qualificatio<br>IZ, SDC, ADA                      | n Agency,                      |  |  |
| Task start:         2.03.2017   |  |                                      |  |   | Task finish   | 30.12.2018   |   |                                |  |  |
| Overall budget (€) 315,000  |  |                                      |  |   | Financial sources   | EU, NMFA, GIZ, SDC, ADA  |   |                                |  |  |
| Task act  | ivities:   |                                      |  |   |   |  |   |                                |  |  |
| No  | Activity   |                                      |  | De  | eliverables:  | Resp.  | Timing  | Budget                         |  |  |
| 5.12.1  | curricula for  | vocationa<br>d on the                | ion concept and<br>al IT education in<br>German dual<br>education                                | Co  | ncept; curricula  | GIZ  | 2.03<br>29.05.2017                                    | 15,000                         |  |  |
| 5.12.2  | Establish voo<br>Kosovo  | cational e                           | ducation for IT in   |   | least 2 vocational<br>ining schools for IT  | UNIV   | 1.06.2017<br>-<br>30.12.2018                          | 300,000                        |  |  |
| Comments Vocational education for IT in<br>system ("Duales Ausbildungs<br>vocational education at a voo<br>should be strictly regulated a<br>The dual education system co<br>Best practice examples:<br>IT-Berufe: http://www.it-ber<br>Fachinformatiker:<br>http://berufenet.arbeitsager<br>Estonian IT College: http://ww |  |                                      |  | syst<br>catic<br>ind o<br>ould<br><u>ufe.</u> | em") which combine<br>onal training school. T<br>defined as national st<br>be also extended in<br><u>de</u><br><u>de/berufe/docroot/r</u> | rs apprentices<br>The precise ski<br>tandards.<br>order to creat<br>r2/blobs/pdf/b | nips in a compa<br>Ils and theory<br>e special IT col | any and<br>taught              |  |  |
| Team  |  | n.a.                                 |  |   |   |  |   |                                |  |  |
| Continu<br>Improve  |  | n.a.                                 |  |   |   |  |   |                                |  |  |

## 5.1.6. Strategic Pillar 6: IT Clusters & Collaboration

## 5.1.6.1. Implement capacity building in IT cluster management

| Task No   |  | 6.1                                   | Task name   | I          | mplement capacity b  | ouilding in IT cl                  | uster manager       | nent   |  |
|---|--|---------------------------------------|---|------------|--|------------------------------------|---------------------|--------|--|
| Priority  |  | 1                                     | Predecessor tasks   | -          |  |                                    | % Complete          | 0%     |  |
| Descrip   | tion & rational                              | le                                    |   |            |  |                                    |                     |        |  |
| industry<br>limitatio<br>This task  | collaboration<br>ns in resource              | and innov<br>s and to ju<br>uip Kosov | or promoting the Kos<br>vation / R&D. Further<br>ointly target new man<br>o IT industry stakeho   | mo<br>rket | re, clusters allow Kos<br>s.   | sovo IT compa                      | nies to overcor     | ne     |  |
| User sto  | ory & results                                |                                       | ovo IT industry stake<br>ment so that I can pr  |            |  | -                                  |                     | uster  |  |
| Accepta<br>& indica   | nce criteria<br>ators                        | app<br>• At le                        | ning material and cas<br>roved by STIKK.<br>east 10 IT industry sta<br>nagement training.   |            |  | -                                  |                     | -      |  |
| -   | esponsible MZHE<br>rganization (lead)        |                                       |   |            | Partner<br>organizations   | MTI, MASHT, KIESA, STIKK, GIZ, NMF |                     |        |  |
| Task sta  | rt:  | 2.11.202                              | 17  |            | Task finish  | 18.12.2017                         |                     |        |  |
| Overall   | Overall budget (€) 10,000                    |                                       |   |            | Financial sources  | GIZ                                |                     |        |  |
| Task act  | ivities:                                     |                                       |   |            |  |                                    |                     |        |  |
| No  | Activity                                     |                                       |   | D          | eliverables:   | Resp.                              | Timing              | Budget |  |
| 6.1.1   | Elaborate tra<br>studies on IT               | -                                     | terial and case<br>nanagement   |            | aining material and<br>se studies                                    | GIZ                                | 2.11<br>30.11.2017  | 6,000  |  |
| 6.1.2   | Conduct trai<br>cluster mana<br>stakeholders | agement f                             | kshop (3 days) on IT<br>for selected  | gro<br>ass | ogram; results of<br>oup works /<br>signments; list of<br>rticipants | GIZ                                | 7.12<br>11.12.2017  | 4,000  |  |
| 6.1.3   | Provide clust<br>and toolbox                 |                                       | gement manual   |            | uster management<br>anual and toolbox                                | GIZ                                | 14.12<br>18.12.2017 | -      |  |
| planning, Organizational str<br>marketing, project & proces<br>knowledge management.<br>Best practice examples: |  |                                       | training should inter alia cover the following topics: Business<br>ucture, quality management, IT cluster services, cluster<br>is management, cluster financing, HR management, innovation,<br><u>http://www.software-cluster.com</u> |            |  |                                    |                     |        |  |
| Team  |  | n.a.                                  |   |            |  |                                    |                     |        |  |
| Continu<br>Improve  |  | n.a.                                  |   |            |  |                                    |                     |        |  |

## 5.1.6.2. Establish STIKK as an IT Cluster of Excellence

| Task No                   | ).  | 6.2  | Task name   | E            | stablish STIKK as an  | IT Cluster of E             | xcellence                     |            |  |  |
|---------------------------|---|--|---|--------------|---|-----------------------------|-------------------------------|------------|--|--|
| Priority                  |   | 2  | Predecessor tasks   | -            |   |                             | % Complete                    | 0%         |  |  |
| Descrip                   | tion & rational   | e  |   |              |   |                             |                               |            |  |  |
| custome                   | er orientation,<br>this task are:<br>Establishing S<br>Increasing the<br>services   | service po<br>TIKK as a<br>e internati   | of activities designed<br>ortfolio, quality mana<br>Cluster of Excellence<br>onal competitivenes<br>n between Kosovo IT | in t<br>s of | nent, innovation as v<br>he global IT industry<br>STIKK member comp | vell as financia            | l sustainability              | . The main |  |  |
| User st                   | ory & results   |  | ovo IT industry stake<br>on and in order to ge  |              |   |                             |                               |            |  |  |
| Accepta<br>& indica       | ance criteria<br>ators  | <ul> <li>By the grad set of the grad set o</li></ul> | he end of 2018, STIKI<br>he end of 2018, STIKI<br>ity certification.<br>east 70% of STIKK me<br>K as good.              | K ha         | s been certified acco   | rding to ISO 9              | 001 or a comp                 | arable     |  |  |
| Respon<br>organiz         | zation (lead)   |  |   |              | Partner<br>organizations  | MIT, KIESA, G<br>SDC        | GIZ, NMFA, US                 | AID, EU,   |  |  |
| Task sta                  | start: 2.02.2017  |  |   |              | Task finish   | 30.12.2018                  |                               |            |  |  |
| Overall budget (€) 59,000 |   |  |   |              | Financial sources   | GIZ, NMFA, USAID, EU, SDC   |                               |            |  |  |
| Task ac                   | tivities:   |  |   |              |   | -                           | -                             |            |  |  |
| No                        | Activity  |  |   | D            | eliverables:  | Resp.                       | Timing                        | Budget     |  |  |
| 6.2.1                     | Develop clus<br>(IT Cluster of  |  | ess plan for STIKK<br>ce)   | Bu           | siness plan   | STIKK, GIZ                  | 2.02<br>16.03.2017            | 6,000      |  |  |
| 6.2.2                     | Further deve<br>and process   | . –  | nizational structure<br>STIKK   | joł          | ganizational chart;<br>descriptions;<br>ocess model                 | STIKK, GIZ                  | 17.03<br>15.06.2017           | 8,000      |  |  |
| 6.2.3                     | Develop and<br>portfolio (ind<br>existing serv  | luding in  | nt STIKK service<br>tegration of  |              | IKK service<br>rtfolio  | STIKK, GIZ                  | 17.03<br>30.06.2017           | 15,000     |  |  |
| 6.2.4                     | application /<br>application (  | groupwa<br>e.g. Share<br>support I<br>n and kno  | Point, Trello,<br>Γ stakeholder   | soi<br>/ g   | llaborative<br>ftware application<br>roupware or ECM<br>plication   | <b>STIKK</b>                | 16.06<br>15.07.2017           | 6,000      |  |  |
| 6.2.5                     | Introduce QM system and support<br>certification of STIKK according to ISO<br>9001 or a comparable quality<br>certification |  |   | ST           | ality manual for<br>IKK; certification<br>cument                    | <b>STIKK</b>                | 16.06.2017<br>-<br>30.12.2018 | 20,000     |  |  |
| 6.2.6                     | Support STIKK in enlarging its membership base  |  | Ne  | w members    | GIZ   | 2.02.2017<br>-<br>3.08.2018 | 3,000                         |            |  |  |
| 6.2.7                     | Integrate un associated m   |  | into STIKK as   |              | iversity<br>embership   | STIKK                       | 17.03<br>16.06.2017           | 1,000      |  |  |
| Comme                     | ents  | It should  | be taken into consid  | dera         | tion to include comp  | anies from rel              | lated industrie               | s (e.g     |  |  |

| Task No.                  | 6.2  | Task name  | Establish STIKK as an IT Cluster of Excellence |  |  |  |  |
|---------------------------|------|--|--|--|--|--|--|
|                           |      | eative industries) in order to enlarge STIKK's membership base. However these related lustries need to have a strong IT focus. |  |  |  |  |  |
| Team                      | n.a. |  |  |  |  |  |  |
| Continuous<br>Improvement | n.a. |  |  |  |  |  |  |

# 5.1.6.3. Establish international advisory board within STIKK ("Brand Ambassadors")

| Task No   |   | 6.3                      | Task name                                      |                                  | Establish internationa<br>Ambassadors")  | al advisory boa                   | rd within STIK                   | K ("Brand            |
|---|---|--------------------------|--|----------------------------------|--|-----------------------------------|----------------------------------|----------------------|
| Priority  |   | 1                        | Predecessor tasks                              | -                                |  |                                   | % Complete                       | 0%                   |
| Descript  | tion & rational   | e                        |  |                                  |  |                                   |                                  |                      |
| task will<br>professio  | address this is<br>onals and perso<br>boards will ad                    | sue by es<br>onalities f | tablishing an interna<br>from the internation  | tion<br>al IT                    | s lack of branding an<br>al advisory board wit<br>industry, politics and<br>and will serve as "bra | thin STIKK, cor<br>d the academia | isisting of top-<br>a. The membe | ranking<br>rs of the |
| User sto  | ory & results   |                          | ovo IT industry stake<br>adors" for the Kosovo |                                  | der I want to use the<br>industry.   | international                     | advisory board                   | d as "brand          |
| Accepta<br>& indica   | nce criteria<br>Itors   | <ul> <li>The</li> </ul>  | international advisor                          | ry bo                            | oard within STIKK is f   | ully operation                    | al.                              |                      |
| Responsible STIKK<br>organization (lead)  |   |                          |  |                                  | Partner MTI, MZHE, GIZ, NMFA, USAID, E<br>organizations SDC  |                                   |                                  | AID, EU,             |
| Task start:         1.12.2016   |   |                          |  |                                  | Task finish 24.10.2018   |                                   |                                  |                      |
| Overall budget (€) 24,000   |   |                          |  | Financial sources                | GIZ, NMFA, U   | JSAID, EU, SDO                    | 2                                |                      |
| Task act  | ivities:  |                          |  |                                  |  |                                   |                                  |                      |
| No  | Activity  |                          |  | D                                | eliverables:   | Resp.                             | Timing                           | Budget               |
| 6.3.1   |   | -                        | selection criteria<br>dvisory board            | Co                               | ncept  | STIKK                             | 1.12<br>5.12.2016                | 1,000                |
| 6.3.2   | -   |                          | advisory board<br>nizational structure         | Statute;<br>organizational chart |  | STIKK                             | 8.12<br>12.12.2016               | 1,000                |
| 6.3.3   | Identify and internationa   |                          | nembers of the<br>board                        | the                              | t of members of<br>e international<br>visory board   | STIKK                             | 15.12.2016<br>-<br>30.12.2017    | 4,000                |
| 6.3.4   | Organize annual meetings / reunions of the international advisory board |                          |  | M                                | eeting reports   | STIKK                             | 23.10.2017<br>/<br>24.10.2018    | 18,000               |
| Comments Selection of the international transparent process. Member on their merit, reputation an Annual meetings could be or general meetings. |   |                          |  |                                  | f the international ac<br>etwork within the glo  | dvisory board s<br>bal IT commu   | should be sele<br>nity.          | cted based           |

| Task No.                  | 6.3  | Task name | Establish international advisory board within STIKK ("Brand Ambassadors") |
|---------------------------|------|-----------|---|
| Team                      | n.a. |           |   |
| Continuous<br>Improvement | n.a. |           |   |

### 5.1.6.4. Establish specialized sub-clusters for targeted marketing and positioning

| Task No  | ).  | 6.4   | Task name  |                                  | establish specialized a positioning   | sub-clusters fo   | r targeted ma  | rketing and                                   |
|--|---|---|--|----------------------------------|---|---|--|---|
| Priority   |   | 2   | Predecessor tasks  | -                                |   |   | % Complete   | 0%  |
| Descrip  | tion & rational   | е   |  |                                  |   |   |  |   |
| will orga<br>different<br>segment<br>compani<br>leverage | nize sub-cluste<br>tiate themselve<br>s more effecti<br>les could use t | ers specia<br>es from co<br>vely. This<br>hese sub-<br>and peno<br>As a Kos | lizing on specific ver<br>ompetitors, to impro-<br>is particularly releva<br>clusters for the form<br>etrate new markets.<br>ovo IT company I wa | tical<br>ove t<br>int w<br>iatio | tition, differentiation,<br>, horizontal or techn<br>heir market position<br>vith regards to expor<br>n of consortia, allow<br>o participate in speci | ical capabilities<br>ing and to add<br>t promotion. C<br>ing them to bu | s. This will allo<br>ress selected o<br>ptionally, Kos<br>ndle their con | w them to<br>customer<br>ovo IT<br>npetences, |
| Accepta<br>& indica                                      | ince criteria<br>ators  | <ul><li>Spec</li><li>Spec</li></ul>   |  | have                             | e been successfully e<br>e successfully particip  |   | t 3 national o   | r   |
| -  | Responsible STIKK<br>organization (lead)                                |   |  |                                  | Partner<br>organizations  | MTI, KIESA, MZHE, GIZ, NMFA, USAI<br>EU, SDC                            |  |   |
| Task sta   | Task start: 1.05.2017   |   |  |                                  | Task finish   | 15.06.2018  |  |   |
| Overall  | Overall budget (€) 23,000   |   |  |                                  | Financial sources   | GIZ, NMFA   |  |   |
| Task act   | tivities:   |   |  |                                  |   |   |  |   |
| No   | Activity  |   |  | D                                | eliverables:  | Resp.   | Timing   | Budget  |
| 6.4.1  | -   |   | e.g. software<br>d sub-clusters  |                                  | aluation report on<br>cus topics  | GIZ   | 1.05<br>29.05.2017   | 3,000   |
| 6.4.2  | Elaborate or specialized s  | -   | nal concept for<br>rs  | Co                               | ncept   | GIZ   | 1.06<br>30.06.2017   | 3,000   |
| 6.4.3  | Establish spe   | cialized s  | ub-clusters  |                                  | ort profile of sub-<br>Isters   | STIKK   | 1.07<br>30.09.2017   | 5,000   |
| 6.4.4  | Develop and specialized s   | -   | nt action plans for<br>rs  | Ac                               | tion plans; reports   | <b>STIKK</b>  | 1.10.2017<br>-<br>15.06.2018   | 12,000  |
| Comme  | nts   | market i<br>taken in<br>Bundlinį<br>address<br>competi<br>Best pra          | ntelligence generate<br>to account.<br>g capabilities and res  | ed by<br>courc<br>cale<br>irop   |   | rmation Service   | e (see task 3.1<br>I be also usefu                                       | ) should be                                   |

| Task No.                  | 6.4   | Task name | Establish specialized sub-clusters for targeted marketing and positioning |  |  |  |  |
|---------------------------|---|-----------|---|--|--|--|--|
|                           | Brazil: The Whale Strategy: <u>http://brasilexportati.com/artigos/the-whale-strategy/</u> |           |   |  |  |  |  |
| Team                      | n.a.  |           |   |  |  |  |  |
| Continuous<br>Improvement | n.a.  |           |   |  |  |  |  |

## 5.1.6.5. Implement cluster promotion program

| Task No  | ).                                    | 6.5  | Task name  | I                           | mplement cluster pr   | omotion prog  | ram                              |  |  |
|--|---------------------------------------|--|--|-----------------------------|---|---|----------------------------------|--|--|
| Priority   | ,                                     | 2  | Predecessor tasks  | -                           |   |   | % Complete                       | 0%                                     |  |
| Descrip  | tion & rational                       | e  |  |                             |   |   |                                  |  |  |
| / consor<br>well as j<br>to encou  | rtia, a special cl<br>oint research a | uster pro<br>ind marke<br>ation of s<br>As a Kos | IT Cluster of Exceller<br>motion program sho<br>ting projects. In addi<br>trategic cooperation<br>ovo IT company I was<br>te with other compan | uld<br>tior<br>in t<br>nt t | be introduced includ<br>n to that public tende<br>he form of clusters o<br>o participate in the c | ing grants for<br>er procedures<br>r consortia.<br>luster promoti | cluster manag<br>will be adapted | ement as<br>d in order<br>o that I can |  |
| Accepta<br>& indica  | ance criteria<br>ators                | <ul> <li>The</li> </ul>                          | cluster promotion pr<br>east 1 cluster project   | -                           |   |   |                                  |  |  |
| Respon<br>organiz  | sible<br>ation (lead)                 | MZHE   |  |                             | Partner<br>organizations  | MTI, STIKK, H   | (RPP, EU                         |  |  |
| Task sta   | Task start:         2.02.2017         |  |  |                             | Task finish   | 30.09.2017  | 30.09.2017                       |  |  |
| Overall budget (€) 35,000  |                                       |  |  |                             | Financial sources   | EU  |                                  |  |  |
| Task ac  | tivities:                             |  |  |                             |   |   |                                  |  |  |
| No   | Activity                              |  |  | D                           | eliverables:  | Resp.   | Timing                           | Budget                                 |  |
| 6.5.1  | Develop clus                          | ter prom   | otion program  | Co                          | ncept   | MZHE, EU  | 2.02<br>27.02.2017               | 3,000                                  |  |
| 6.5.2  | Implement c                           | luster pro                                       | motion program   |                             | oject proposals<br>oplications)   | MZHE  | 2.03<br>29.05.2017               | 30,000<br>(IT<br>industry)             |  |
| 6.5.3  | Adapt tende<br>clusters / co          |  | res to promote   |                             | lapted tender<br>ocedures   | KRPP  | 1.09<br>30.09.2017               | 2,000                                  |  |
| Comments It is advisable to design and<br>industries of the Kosovo eco<br>industries), where the Kosov<br>Best practice examples:<br>Germany: Go Cluster: http://<br>Latvia: http://www.itbaltic.or<br>companies |                                       |  |  |                             | y or a group of select sector is eligible to s<br>w.go-cluster.de                                 | ted industries<br>ubmit project                                   | (e.g. high-tech<br>proposals.    | 1                                      |  |
| Team   |                                       | n.a.   |  |                             |   |   |                                  |  |  |
| Continuous n.a.<br>Improvement   |                                       |  |  |                             |   |   |                                  |  |  |

## 5.1.6.6. Establish job exchange within STIKK website

| Task No.  |                                       | 6.6                       | Task name                                       | E                      | stablish job exchang   | e within STIKK                 | website                            |                   |
|---|---------------------------------------|---------------------------|---|------------------------|--|--------------------------------|------------------------------------|-------------------|
| Priority  |                                       | 2                         | Predecessor tasks                               | -                      |  |                                | % Complete                         | 0%                |
| Descript  | ion & rational                        | e                         |   |                        |  |                                | L                                  |                   |
| intranspa<br>manage 1   | arent labour m<br>the hiring proc     | narket and<br>cess. In or | d lack of employer br<br>der to address this is | and<br>sue             | lenges for Kosovo IT<br>ing. Besides, most IT<br>in a collaborative ap<br>vill be designed and i | SMEs don't ha<br>proach, STIKK | ave HR departi<br>will establish a | ments to<br>a job |
| User sto  | ry & results                          |                           | ovo IT company I wa<br>lidates for my enterp    |                        | o use the job exchang  | ge in order to i               | identify and hi                    | re suitable       |
| Acceptance criteria•The job exchange within the STIKK website has been successfully implemented& indicators•A minimum of 20 job offers / year have been published via the exchange. |                                       |                           |   |                        |  | d                              |                                    |                   |
|   | Responsible STIKK organization (lead) |                           |   |                        | Partner<br>organizations   | MPMS, UNIVs, SDC, USAID        |                                    |                   |
| Task start:         2.03.2017   |                                       |                           |   | Task finish            | 31.07.2017   |                                |                                    |                   |
| Overall I   | Overall budget (€) 17,000             |                           |   |                        | Financial sources  | SDC, USAID                     |                                    |                   |
| Task act  | ivities:                              |                           |   |                        |  |                                |                                    |                   |
| No  | Activity                              |                           |   | D                      | eliverables:   | Resp.                          | Timing                             | Budget            |
| 6.6.1   |                                       | -                         | d requirements<br>TIKK job exchange             | red                    | ncept,<br>quirements<br>ecification  | STIKK                          | 2.03<br>20.03.2017                 | 5,000             |
| 6.6.2   | Conduct ten<br>STIKK job exc          |                           | nplement the                                    |                        | b exchange within<br>IKK website   | STIKK                          | 23.03<br>31.07.2017                | 12,000            |
| Comments The STIKK job exchange shou<br>community and should be in<br>Best practice examples:<br>Germany: Software Cluster:<br><u>cluster.com/de/karriere/job</u>                   |                                       |                           | tegr<br>http                                    | ated in STIKK's servic | e portfolio.   |                                | T                                  |                   |
| Team  |                                       | n.a.                      |   |                        |  |                                |                                    |                   |
| Continue<br>Improve   |                                       | n.a.                      |   |                        |  |                                |                                    |                   |

# 5.1.6.7. Support the OSS community

| Task No.  | 6.7  | Task name         | Support the OSS community |            |    |  |  |  |  |
|---|--|-------------------|---------------------------|------------|----|--|--|--|--|
| Priority  | 2  | Predecessor tasks | -                         | % Complete | 0% |  |  |  |  |
| Description & rationale   |  |                   |                           |            |    |  |  |  |  |
| capabilities within the<br>the domestic market. A<br>regards to technologic | Promoting Open Source Software (OSS) in Kosovo is important for establishing a well-balanced portfolio of technical capabilities within the Kosovo IT industry which is important for export promotion as well as for the development of the domestic market. As an alternative to proprietary technologies, OSS also plays an important strategic role with regards to technological independence, IT security and innovation. This task has been envisaged in order to promote the OSS community in Kosovo, in particular the Free Libre Open Source Software Kosova (FLOSSK). |                   |                           |            |    |  |  |  |  |
| User story & results  | ser story & results As a member of the OSS community I want to use the support provided through the  |                   |                           |            |    |  |  |  |  |

| Task No   | ).                                       | 6.7   | Task name                     | 5   | Support the OSS com          | munity        |   |           |  |
|---|--|---|-------------------------------|---|------------------------------|---------------|---|-----------|--|
|   |  | Nationa   | I IT Strategy so that         | l can   | promote OSS in Kos           | ovo more effe | ctively.  |           |  |
| Accepta<br>& indica   | ance criteria<br>ators                   |   |                               | Kosova Conference (SFK) has been successfully implemented or<br>cooperation with STIKK. |                              |               |   |           |  |
| •   | Responsible STIKK<br>organization (lead) |   |                               |   | Partner<br>organizations     | STIKK, MASH   | IT, EU, USAID,  | GIZ, NMFA |  |
| Task start: 10.10.2016  |  |   |                               | Task finish   | 14.10.2018                   |               |   |           |  |
| Overall   | Overall budget (€) 10,000                |   |                               |   | Financial sources            | EU, USAID, G  | δΙΖ, NMFA   |           |  |
| Task ac   | tivities:                                |   |                               |   |                              |               |   |           |  |
| No  | Activity                                 |   |                               | D   | eliverables:                 | Resp.         | Timing  | Budget    |  |
| 6.7.1   | implementa                               | t the organization and<br>nentation of the Software<br>m Kosova Conference on an<br>basis |                               |   | ogram; list of<br>rticipants | EU, USAID     | 10.10<br>12.10.2016<br>/ 13.10<br>14.10.2017<br>/ 13.10<br>14.10.2018 | 9,000     |  |
| 6.7.2   |  | •   | between FLOSSK<br>communities | M   | oUs                          | NMFA, GIZ     | 3.11.2016<br>-<br>30.12.2018  | 1,000     |  |
| Comments Best practice examples:<br>Germany: Software Cluster:<br>alliance.de |  |   | Ope                           | n Source Business Al  | liance (OSBA):               | http://www.c  | osb-  |           |  |
| Team  |  | n.a.  |                               |   |                              |               |   |           |  |
| Continuous n.a.<br>Improvement  |  |   |                               |   |                              |               |   |           |  |

### 5.1.6.8. Establish joint competence center on EU projects

| Task No.   | 6.8  | Task name  | Establish joint compet   | tence center o | n EU projects |            |  |  |  |
|--|--|--|--------------------------|----------------|---------------|------------|--|--|--|
| Priority   | 2  | Predecessor tasks  | -                        |                | % Complete    | 0%         |  |  |  |
| Description & rational   | е  |  |                          |                |               |            |  |  |  |
| (particularly universitie<br>particularly relevant w<br>necessary resources ar | This task is directed at establishing a joint competence center at STIKK, including all relevant stakeholders (particularly universities) and bundling their resources and capabilities in order to acquire EU projects. This is particularly relevant with regards to the Kosovo IT community where most of the stakeholders do not have the necessary resources and competences to participate in the application / tender process on an individual basis. The main goal of this task is to acquire much needed funds / subsidies for the Kosovo IT industry and the academia. |  |                          |                |               |            |  |  |  |
| User story & results   |  | As a Kosovo IT stakeholder, I want to use the joint competence center so that I can acquire EU projects and funds for my organization. |                          |                |               |            |  |  |  |
| Acceptance criteria<br>& indicators  | The  | joint competence cent<br>joint competence cent<br>or consortium partner  | er on EU projects has a  |                | -             | ' year (as |  |  |  |
| Responsible<br>organization (lead)   | STIKK  |  | Partner<br>organizations | ICK, EU        |               |            |  |  |  |
| Task start:  | 1.09.20  | 1.09.2017 Task finish 30.12.2018   |                          |                |               |            |  |  |  |
| Overall budget (€)   | 12,000   | 12,000 Financial sources EU  |                          |                |               |            |  |  |  |
| Task activities:   |  |  |                          |                |               |            |  |  |  |

| Task No.                       |                               | 6.8   | Task name                                | Establish joint compe                                    | tence center c  | on EU projects                |                     |
|--------------------------------|-------------------------------|---|--|--|-----------------|-------------------------------|---------------------|
| No                             | Activity                      |   |  | Deliverables:  | Resp.           | Timing                        | Budget              |
| 6.8.1                          | including ser<br>formation of | center or<br>vices por<br>consortia<br>he applica | n EU projects                            | Concept for joint<br>competence center<br>on EU projects | <b>STIKK</b>    | 1.09<br>11.09.2017            | 3,000               |
| 6.8.2                          | Implement a<br>competence     |   | te joint<br>n EU projects                | Project proposals  | STIKK           | 14.09.2017<br>-<br>30.12.2018 | 9,000<br>(start-up) |
| Commer                         | nts                           |   | ctice examples:<br>y: EU project advisor | y services: <u>http://www.ł</u>                          | ntai.de/dynasit | te.cfm?dsmid=                 | = <u>19820</u>      |
| Team n.a.                      |                               |   |  |  |                 |                               |                     |
| Continuous n.a.<br>Improvement |                               |   |  |  |                 |                               |                     |

### 5.1.6.9. Promote international cluster linkage

| Task No             | ).  | 6.9                        | Task name   | F                        | Promote internationa  | l cluster linkag             | ge              |            |  |
|---------------------|---|----------------------------|---|--------------------------|---|------------------------------|-----------------|------------|--|
| Priority            |   | 2                          | Predecessor tasks   | -                        |   |                              | % Complete      | 20%        |  |
| Descrip             | tion & rational   | e                          |   |                          |   |                              |                 |            |  |
| in order            | to increase the   | e internat                 |   | Kos                      | ers and associations<br>ovo IT industry and to<br>I joint projects.       |                              |                 |            |  |
| User sto            | ory & results   |                            | -   |                          | nt to use internationa<br>s, for match-making a                           |                              |                 | exchange   |  |
| Accepta<br>& indica | ance criteria<br>ators  | <ul> <li>At let</li> </ul> | east 3 cooperation pr   | ojec                     | ational IT clusters an<br>cts with international<br>emented until the end | IT cluster part              |                 |            |  |
| •                   | Responsible STIKK<br>organization (lead)  |                            |   | Partner<br>organizations | GIZ, NMFA, USAID, EU  |                              |                 |            |  |
| Task sta            | irt:  | 01.04.2                    | 016   |                          | Task finish   | 30.12.2018                   |                 |            |  |
| Overall             | budget (€)  | 4,000                      |   |                          | Financial sources   | GIZ, NMFA, EU                |                 |            |  |
| Task ac             | tivities:   |                            |   |                          |   |                              |                 |            |  |
| No                  | Activity  |                            |   | D                        | eliverables:  | Resp.                        | Timing          | Budget     |  |
| 6.9.1               | .9.1 Identify suitable cooperation partners (IT clusters and association) and identify areas of cooperation |                            | Profiles of<br>cooperation partners;<br>description of areas<br>of cooperation /<br>potential cooperation<br>projects |                          | GIZ   | 1.04<br>31.12.2016           | 2,000           |            |  |
| 6.9.2               | Establish cooperation with IT clusters and associations   |                            | M   | oUs                      | STIKK, GIZ  | 1.05.2016<br>-<br>30.12.2018 | 2,000           |            |  |
| Comme               | nts   | It could                   | be advisable for STIK   | K to                     | become member of  | TCI – The Glob               | oal Practitione | rs Network |  |

| Task No.                  | 6.9     | Task name                                    | Promote international cluster linkage |  |  |  |
|---------------------------|---------|--|---------------------------------------|--|--|--|
|                           | for Com | or Competitiveness, Clusters and Innovation. |                                       |  |  |  |
| Team                      | n.a.    | 1.a.   |                                       |  |  |  |
| Continuous<br>Improvement | n.a.    |  |                                       |  |  |  |

# 5.1.6.10. Establish special competence groups for strategic IT topics ("Triple Helix")

| Task No  |   | 6.10  | Task name  | E   | stablish special com  | petence group  | s for strategic    | IT topics |
|--|---|---|--|---|---|--|--------------------|-----------|
| Priority   |   | 2   | Predecessor tasks  | -   |   |  | % Complete         | 0%        |
| Descript   | ion & rational  | е   |  | •   |   |  |                    | •         |
| industry<br>Special C  | such as huma<br>Awareness ra<br>Networking b<br>Promoting co<br>Developing ar<br>ompetence G<br>Cloud Compu<br>Mobile Comp<br>Big Data & An<br>Industry 4.0 (d<br>IT Security<br>Open Source S<br>E-Health<br>Human Resou | n resourc<br>ising & in<br>etween p<br>llaboratic<br>nd impler<br>roups (SC<br>ting<br>uting<br>alytics<br>Cyber-Phy<br>Software<br>rces (HR) | roviders and users<br>on between companie<br>nenting joint projects<br>Gs) should cover the<br>ysical-Systems) and El<br>(OSS) | rtre<br>s, p  | ends. The main goals<br>ublic sector and acad<br>owing strategic IT top | of these SCGs<br>demia on speci  | are:               |           |
| User story & results As a Kosovo IT stakeholder I want to participate in Special Competence Groups so that I can exchange information on strategic IT topics and find suitable cooperation partners. |   |   |  |   |   |  |                    |           |
| Accepta<br>& indica  | nce criteria<br>tors  | At le   | east 6 Special Compete<br>east 2 whitepapers, g<br>s / year.   |   | -   |  |                    | by the    |
| Respons<br>organiza  | ible<br>ition (lead)  | STIKK   |  |   | Partner<br>organizations  | MASHT, MIT, MZHE, ASHI, KIESA,<br>ZKM, UNIV, GIZ, NMFA, SDC, USAID<br>EU |                    | -         |
| Task sta   | rt:   | 1.05.20   | 17   |   | Task finish   | 30.12.2018   |                    |           |
| Overall  | oudget (€)  | 21,000  |  |   | Financial sources   | GIZ, NMFA, S   | DC, USAID, EU      |           |
| Task act   | ivities:  |   |  |   |   |  |                    |           |
| No   | Activity  |   |  | De  | eliverables:  | Resp.  | Timing             | Budget    |
| 6.10.1   | Develop con<br>goals, struct  |   | he SCGs including<br>rocedures   | Co  | ncept   | GIZ  | 1.05<br>15.05.2017 | 1,000     |
| 6.10.2   | Define the to   | fine the topics for the SCGs  |  |   | t of topics with<br>aluation report                                     | STIKK  | 18.05<br>5.06.2017 | 2,000     |
| 6.10.3   | 6.10.3 Establish and manage the SCGs  |   | me<br>wh<br>gu   | t of members,<br>eeting reports,<br>hitepapers,<br>idelines, project<br>oposals | STIKK   | 8.06.2017<br>-<br>30.12.2018   | 9,000              |           |

| Task No.   |   | 6.10                   | Task name  | Establish special com              | petence group                | s for strategic              | IT topics |
|--|---|------------------------|--|------------------------------------|------------------------------|------------------------------|-----------|
| 6.10.4   | Organize participation of international<br>experts in SCG meetings (presentations,<br>lectures, etc.) |                        | reports  | EU                                 | 2.10.2017<br>-<br>30.12.2018 | 6,000                        |           |
| 6.10.5   | -   | groups o<br>ociations, |  | Cooperation<br>agreements          | GIZ, NMFA                    | 2.11.2017<br>-<br>30.12.2018 | 3,000     |
| Comments In contrast to the specialized<br>are mostly technology driven<br>The SCGs should be also used<br>other industries of the Kosov |   |                        | and cover strategic topi<br>to promote cooperation | cs for the IT in<br>n between IT p | dustry.<br>providers and     |                              |           |
| Team n.a.  |   |                        |  |                                    |                              |                              |           |
| Continuous n.a.<br>Improvement   |   |                        |  |                                    |                              |                              |           |

# 5.1.7. Strategic Pillar 7: Entrepreneurship

# 5.1.7.1. Establish coaching committee at STIKK / ICK

| Task No.              |   | 7.1   | Task name                                  | E  | Establish mentoring c  | ommittee at S                    | тікк / іск                         |        |
|-----------------------|---|---|--|--|--|----------------------------------|------------------------------------|--------|
| Priority              |   | 3   | Predecessor tasks                          | -  |  |                                  | % Complete                         | 0%     |
| Descript              | ion & rational  | е   |  |  |  |                                  |                                    | ·      |
| of IT com<br>mentorin | panies who w<br>g committee   | vill provido<br>organizes                                     | e mentoring to young<br>monthly entreprene | g en<br>ursl   | mmittee at STIKK / IC<br>trepreneurs and star<br>hip dinners for inform<br>s) as well as for coach | t-ups. In addit<br>nal match-mak | ion to that, the<br>king between s | 5      |
| User sto              | ry & results  |   | to learn from experie                      |  | e mentoring services<br>ed managers and to s   |                                  | -                                  |        |
|                       |   |   |  | ee has been successfully established.<br>lucted at least 10 mentoring sessions / year. |  |                                  |                                    |        |
| Respons<br>organiza   | ible<br>tion (lead)   | STIKK / I   | СК   |  | Partner<br>organizations   | IT companies                     |                                    |        |
| Task star             | rt:   | 01.10.2   | 017  |  | Task finish  | 30.12.2018                       |                                    |        |
| Overall b             | oudget (€)  | 12,000  |  |  | Financial sources  | NMFA, USAI                       | )                                  |        |
| Task acti             | ivities:  |   |  |  |  |                                  |                                    |        |
| No                    | Activity  |   |  | D  | eliverables:   | Resp.                            | Timing                             | Budget |
| 7.1.1                 |   | e concept for the mentoring<br>ee (members, procedures, etc.) |  | Со   | ncept  | STIKK                            | 1.10<br>7.10.2017                  | 1,000  |
| 7.1.2                 | 2 Establish mentoring committee at STIKK<br>/ ICK and conduct coachings for start-ups |   |  | Lis  | t of participants  | ICK                              | 8.10<br>16.10.2017                 | 3,000  |

| Task No  | Fask No.   7.1   Task name                                  |         | Establish mentoring committee at STIKK / ICK |                      |                    |                               |       |
|--|---|---------|--|----------------------|--------------------|-------------------------------|-------|
| 7.1.3  | Organize mo<br>dinners with<br>mentoring co<br>business ang | the mem | , start-ups,                                 | List of participants | ICK                | 19.10.2017<br>-<br>30.12.2018 | 8,000 |
| Comments This task needs to be closely conservices for entrepreneurs and |   |         |  |                      | of specialized con | sulting                       |       |
| Team   |   | n.a.    |  |                      |                    |                               |       |
| Continu<br>Improve   |   |         |  |                      |                    |                               |       |

# 5.1.7.2. Support the establishment of the Kosovo Business Angels and VC Association

| Task No   |   | 7.2                  | Task name  |  | Support the establish<br>and VC Association  | ment of the Ko               | osovo Busines                   | s Angels          |
|---|---|----------------------|--|--|--|------------------------------|---------------------------------|-------------------|
| Priority  |   | 1                    | Predecessor tasks  | -  |  |                              | % Complete                      | 0%                |
| Descrip   | tion & rational   | е                    |  |  |  |                              |                                 |                   |
| establish<br>for Koso   | ment of a Kos<br>vo IT start-ups<br>neurial ecosys  | ovo Busir<br>and com | n obstacles to entrep<br>ness Angels and VC As<br>panies. Furthermore<br>ne Kosovo IT industry | ssoc<br>the  | iation will foster the association will beco | provision of a ome an import | ngel and VC in<br>ant element o | vestment<br>f the |
| User story & results As a Kosovo IT start-up / c<br>Association in order to get |   |                      |  | -  | -  |                              | ss Angels and \                 | /C                |
| Acceptance criteria • The Kosovo Business A<br>& indicators                     |   |                      |  | gels   | and VC Association h                         | as been succe                | ssfully establis                | hed.              |
| Responsible CEED / ICK organization (lead)                                      |   |                      |  | Partner<br>organizations                             | MF, MTI, MZHE, KIESA, USAID, EU,<br>NMFA     |                              |                                 |                   |
| Task start: 17.11.2016  |   |                      |  | Task finish  | 30.12.2018                                   |                              |                                 |                   |
| Overall   | Overall budget (€) 17,000   |                      |  |  | Financial sources                            | USAID, EU                    |                                 |                   |
| Task act  | ivities:  |                      |  |  |  |                              |                                 |                   |
| No  | Activity  |                      |  | D  | eliverables:                                 | Resp.                        | Timing                          | Budget            |
| 7.2.1   | Elaborate a p<br>establishmer<br>Angels and V   | nt of a Ko           | sovo Business  | Pro  | oposal                                       | USAID /<br>ICK               | 17.11<br>3.12.2016              | 5,000             |
| 7.2.2   | Mobilize pot<br>members for   |                      |  | ра   | t of potential<br>rtners and<br>embers       | USAID                        | 4.12<br>31.12.2016              | 3,000             |
| 7.2.3   | Support the establishment of the Kosovo<br>Business Angels and VC Association<br>(technical and financial support)              |                      | as   | atute of the<br>sociation, list of<br>unding members | USAID  | 1.01<br>29.05.2017           | 8,000                           |                   |
| 7.2.4   | 7.2.4 Create international linkage for the<br>Kosovo Business Angels and VC<br>Association (particularly with NVCA and<br>EVCA) |                      | M  | bUs  | USAID  | 1.06.2017<br>-<br>30.12.2018 | 1,000                           |                   |
| Comme   | nts   | The Kos              | ovo Business Angels a  | and  | VC Association shou                          | ld include a br              | oad range of p                  | otential          |

| Task No.                  | 7.2      | Task name   | Support the establishment of the Kosovo Business Angels and VC Association  |  |  |
|---------------------------|----------|---|---|--|--|
|                           |          |   | ngels, individual investors, VCs, incubators, regulated should include national as well as international members. |  |  |
|                           |          | ternational linkage and cooperation should be established in particular with the following ganizations: |   |  |  |
|                           | USA: Na  | JSA: National Venture Capital Association: <u>http://www.nvca.org</u>                                   |   |  |  |
|                           | EU: Euro | pean Private Equity &   | Venture Capital Association: <u>http://www.evca.eu</u>  |  |  |
|                           | Best pra | ctice example:  |   |  |  |
|                           | Serbian  | Business Angels Netwo   | ork: <u>http://sban.eu/eng/</u>   |  |  |
|                           | UK Busir | ness Angels Associatior   | n: http://www.ukbusinessangelsassociation.org.uk  |  |  |
| Team                      | n.a.     |   |   |  |  |
| Continuous<br>Improvement | n.a.     |   |   |  |  |

# 5.1.7.3. Organize B2B match-making events between investors and IT entrepreneurs on a national level

| Task No   |   | 7.3       | Task name           |                              | Drganize B2B match-<br>T entrepreneurs on a       | -   |                              | stors and |
|---|---|-----------|---------------------|------------------------------|---|---|------------------------------|-----------|
| Priority  |   | 1         | Predecessor tasks   | -                            |   |   | % Complete                   | 0%        |
| Descript  | ion & rational  | е         |                     |                              |   |   |                              |           |
| This task   | will facilitate   | match-ma  | aking between poter | tial                         | investors and IT star                             | t-ups / compa   | nies.                        |           |
| User sto  | ry & results  |           | • •                 | •                            | ny I want to participa<br>et access to finance fo |   | •                            | nts with  |
| Acceptance criteria & At least 3 B2B match-m implemented until the  |   |           |                     |                              |   | estors and ent  | repreneurs ha                | ve been   |
|   | Responsible STIKK / ICK organization (lead)   |           |                     |                              | Partner<br>organizations                          | KIESA, USAID<br>Developmen                                      | , EU, NMFA,<br>t Banks, CEED |           |
| Task sta  | rt:   | 2.03.2017 |                     |                              | Task finish                                       | 7.10.2018   |                              |           |
| Overall   | Overall budget (€) 21,000   |           |                     | Financial sources            | USAID, EU, NMFA, Development<br>Banks             |   |                              |           |
| Task act  | ivities:  |           |                     |                              |   |   |                              |           |
| No  | Activity  |           |                     | D                            | eliverables:                                      | Resp.   | Timing                       | Budget    |
| 7.3.1   | Provide preparatory trainings for IT<br>start-ups / entrepreneurs participating in<br>match-making / pitching events<br>(business planning, finance, elevator<br>pitch, etc.) |           |                     |                              | aining material, list<br>participants             | Developme<br>nt Banks   | 2.03<br>30.04.2017           | 12,000    |
| 7.3.2   | Conduct at least 3 B2B match-making<br>events between investors and IT<br>entrepreneurs   |           |                     | ogram, list of<br>rticipants | Developme<br>nt Banks                             | 2.06<br>3.06.2017 /<br>1.06<br>2.06.2018 /<br>6.10<br>7.10.2018 | 9,000                        |           |
| Comments The preparatory trainings should be conducted in English and should meet international quality standards so that participants would be also able to participate in international |   |           |                     |                              |   |   |                              |           |

| Task No.                  | 7.3     | Task name   | Organize B2B match-making events between investors and IT entrepreneurs on a national level |  |  |  |
|---------------------------|---------|---|---|--|--|--|
|                           | match-n | natch-making / pitching events and start-up competitions. |   |  |  |  |
| Team                      | n.a.    | i.a.  |   |  |  |  |
| Continuous<br>Improvement | n.a.    |   |   |  |  |  |

## 5.1.7.4. Organize international VC4IT conference in Kosovo

| Task No.  |  | 7.4  | Task name   | C  | Organize internationa   | al VC4IT confer   | ence in Kosovo  | )  |  |
|---|--|--|---|--|---|---|---|--|--|
| Priority  |  | 1  | Predecessor tasks   | -  |   |   | % Complete  | 0%   |  |
| Descript  | ion & rational   | e  |   |  |   |   |   |  |  |
| attract in<br>region (Si<br>industry a<br>In terms<br>Therefore<br>User sto   | ternational bu<br>outheast Euro<br>as an attractiv<br>of IT (particula<br>e, such an eve<br>ry & results<br>nce criteria | usiness ar<br>ope). At th<br>re destina<br>arly softw<br>ent is likely<br>As a Kos<br>find inte<br>The | to organize an interr<br>agels and VC compan<br>le same time this evention for investment.<br>are) Southeast Europ<br>y to attract a substan<br>ovo IT start-up / com<br>rnational investors (I<br>VC4IT conference ha<br>ompanies. | ies t<br>ent v<br>be is<br>itial<br>ipar<br>busi | o invest in IT start-u<br>vill increase the inter<br>one of the most inn<br><u>number of internation</u><br>y I want to participa<br>ness angels and VCs) | ps and compar<br>mational visibi<br>ovative and dy<br>onal investors.<br>te in the VC4IT<br>for my busine | nies from Koso<br>lity of the Koso<br>namic regions<br>conference in<br>ss. | vo and the<br>ovo IT<br>in Europe.<br>order to |  |
| & indicatorsVC companies.Responsible<br>organization (lead)STIKK / ICK  |  |  |   |  | Partner<br>organizations  | MTI, KIESA, MZHE, MF, USAID, EU,<br>NMFA, GIZ, SDC, Development Banks<br>CEED                             |   |  |  |
| Task sta  | rt:  | 15.10.20   | )17   |  | Task finish   | 2.05.2018   |   |  |  |
| Overall b   | oudget (€)   | 23,000   |   |  | Financial sources   | USAID, EU, Development Banks  |   |  |  |
| Task act  | ivities:   |  |   |  |   |   |   |  |  |
| No  | Activity   |  |   | D  | eliverables:  | Resp.   | Timing  | Budget   |  |
| 7.4.1   | Develop con<br>conference (<br>participants,   | program,   | financing,  | Co   | ncept   | STIKK   | 15.10<br>6.11.2017  | 3,000  |  |
| 7.4.2   | Organize inte<br>in Kosovo   | ernationa  | I VC4IT conference  |  | ogram, list of<br>rticipants  | <b>STIKK</b>  | 9.11.2017<br>-<br>2.05.2018   | 20,000   |  |
| Comments<br>The program of the VC4IT<br>Pitching sessions<br>Coaching sessions<br>Expert presentation<br>Discussion panels<br>Good practice examples:<br>Balkan Venture Forum: htt<br>Belgrade Venture Forum: |  |  |   | s<br>//w   | ww.balkanventurefo  | rum.org   |   |  |  |
| Team  |  | n.a.   |   |  |   |   |   |  |  |
| Continuous n.a.<br>Improvement  |  |  |   |  |   |   |   |  |  |

# 5.1.7.5. Introduce specialized consulting & coaching service for IT entrepreneurs and start-ups

| Task No                                     | ).   | 7.5  | Task name   |      | ntroduce specialized<br>Intrepreneurs and st |                 | coaching servio         | e for IT     |
|---|--|--|---|------|--|-----------------|-------------------------|--------------|
| Priority                                    |  | 2  | Predecessor tasks   |      | -  |                 | % Complete              | 0%           |
| Descrip                                     | tion & rational  | е  |   |      |  |                 |                         |              |
| start-up:<br>service v                      | s with the nece  | essary cap   | specialized consultin<br>abilities and know-he<br>start-up consulting w | ow 1 | to successfully estab                        | lish and manag  | ge their busine         | sses. This   |
| User sto                                    | ory & results  |  | sovo IT start-up I war<br>h and manage my bu                            |      |  | sulting & coacl | ning services so        | o that I car |
| Accepta<br>& indica                         | ance criteria<br>ators   | oper   | specialized consulting<br>rational.<br>east 20 Kosovo start-u           | -    | -  |                 |                         | -            |
| Responsible ICK / STIKK organization (lead) |  |  |   |      | Partner<br>organizations                     | KIESA, NMFA     | , GIZ, USAID            |              |
| Task sta                                    | art:   | 01.04.2  | 017   |      | Task finish                                  | 30.12.2018      |                         |              |
| Overall                                     | budget (€)   | 55,000   |   |      | Financial sources                            | NMFA, GIZ, U    | JSAID                   |              |
| Task act                                    | tivities:  |  |   |      |  |                 |                         |              |
| No  | Activity   |  |   | De   | eliverables:                                 | Resp.           | Timing                  | Budget       |
| 7.5.1                                       | its member o   | onduct needs assessment with ICK and<br>s member companies (incubator) (e.g.<br>nrough interviews and / or focus group)  |   |      | eds assessment                               | ІСК / STIKK     | 1.04<br>17.04.2017      | 3,000        |
| 7.5.2                                       | consulting &<br>entrepreneu<br>selection crit<br>and tools an<br>areas should<br>Business<br>Financin<br>Marketir<br>Operatio                                      | Develop concept for the specialized<br>consulting & coaching service for IT<br>entrepreneurs and start-ups including<br>selection criteria, focus areas, methods<br>and tools and delivery model. Focus<br>areas should include:<br>Business planning<br>Financing & accounting<br>Marketing & sales<br>Operations management<br>Entrepreneurship & innovation |   |      | ncept  | NMFA            | 20.04<br>20.05.201<br>7 | 8,000        |
| 7.5.3                                       | Develop financial support scheme for<br>the specialized consulting services for<br>entrepreneurs and start-ups based on a<br>voucher system (IT start-up vouchers) |  |   |      | ancial support<br>neme                       | NMFA            | 21.05<br>29.05.201<br>7 | 2,000        |
| 7.5.4                                       | Establish pool of suitable consultants<br>and coaches (see Task 7.1 Mentoring<br>committee)  |  |   |      | t of consultants<br>d coaches                | STIKK           | 21.05<br>31.07.201<br>7 | 1,000        |
| 7.5.5                                       | Conduct info<br>specialized c<br>entrepreneu   | onsulting  | services for  | Pre  | esentation                                   | ІСК / STIKK     | 1.09.2017               | 1,000        |
|   | 1  |  |   |      |  | 1               | 1                       |              |

| fo                    | or entreprer | neurs and start-ups  | evaluation reports |                | -<br>30.12.2018 |      |  |  |  |
|-----------------------|--------------|--|--------------------|----------------|-----------------|------|--|--|--|
| Comments              | 5            | The specialized consulting & coaching service for entrepreneurs and start-ups should be developed and implemented by ICK in close collaboration with STIKK. The members of the STIKK / ICK coaching committee (see Task 7.1) should be directly integrated into the service. |                    |                |                 |      |  |  |  |
|                       |              | Synergy effects should be ge<br>building & excellence progra   |                    | ents of the er | nterprise capac | city |  |  |  |
|                       |              | Best practice examples:<br>Cyberforum e.V. Start-up services: <u>http://www.cyberforum.de/angebote/fuer-gruender/</u><br>Bwcon Coaching & Finance: <u>http://www.bwcon.de/coaching_finance.html</u>  |                    |                |                 |      |  |  |  |
| Team                  |              | n.a.   |                    |                |                 |      |  |  |  |
| Continuou<br>Improvem | -            | n.a.   |                    |                |                 |      |  |  |  |

# 5.1.7.6. IT Entrepreneurship Award ("DigitalOne")

| Task No.  |  | 7.6       | Task name         | E     | Establish IT Entreprer                       | eurship Awar                                 | d ("DigitalOne'   | <i>'</i> ) |  |
|---|--|-----------|-------------------|-------|--|--|-------------------|------------|--|
| Priority  |  | 1         | Predecessor tasks | -     |  |  | % Complete        | 0%         |  |
| Descript  | ion & rational   | e         |                   |       |  |  |                   |            |  |
| industry a  | and the overa  | ll econom |                   | repr  | strategic importance<br>eneurship Award is a |  | •                 |            |  |
| User story & results As a Kosovo IT industry stakeholder I want to use the IT Entrepreneurship Award to create awareness for the strategic importance of entrepreneurship for the Kosovo IT industry. |  |           |                   |       |  |  |                   |            |  |
| Acceptance criteria  The IT Entrepreneurship Award has been successfully established.   |  |           |                   |       |  |  |                   |            |  |
| Respons<br>organiza   | ible<br>tion (lead)  | STIKK / I | СК                |       | Partner<br>organizations                     | MTI, KIESA, N                                | IMFA, CEED        |            |  |
| Task star   | t:   | 1.05.201  | .7                |       | Task finish                                  | 15.11.2018                                   |                   |            |  |
| Overall b   | oudget (€)   | 7,000     |                   |       | Financial sources                            | NMFA   |                   |            |  |
| Task acti   | vities:  |           |                   |       |  |  |                   |            |  |
| No  | Activity   |           |                   | D     | eliverables:                                 | Resp.  | Timing            | Budget     |  |
| 7.6.1   | Define select<br>Entrepreneu                                   |           |                   | Se    | lection Criteria                             | STIKK  | 1.05<br>5.05.2017 | 1,000      |  |
| 7.6.2 Establish the IT Entrepreneurship award<br>and conduct award ceremony annually  |  |           | Pro               | ogram | STIKK  | 10.11<br>12.11.2017<br>/ 11.11<br>15.11.2018 | 6,000             |            |  |
| Commer  | Comments It might be advisable to cor<br>conference (Task 7.4) |           |                   |       | the award ceremon                            | y with the inte                              | rnational IT V    |            |  |
| Team  |  | n.a.      |                   |       |  |  |                   |            |  |

| Task No.                  | 7.6  | Task name | Establish IT Entrepreneurship Award ("DigitalOne") |
|---------------------------|------|-----------|--|
| Continuous<br>Improvement | n.a. |           |  |

## 5.1.7.7. Establish high-tech start-up fund (PPP)

| Task No   |   | 7.7  | Task name  | E   | stablish high-tech st   | art-up fund (Pl   | PP)   |   |
|---|---|--|--|---|---|---|---|---|
| Priority  |   | 1  | Predecessor tasks  | -   |   |   | % Complete  | 0%  |
| Descript  | tion & rational   | e  |  |   |   |   |   |   |
| and entr<br>establish<br>industrie<br>private s<br>mentorii | epreneurs in k<br>ned in the form<br>es (e.g. IT, teleo<br>ector partners<br>ng for the start | Kosovo, pa<br>n of a pub<br>communio<br>s will incre<br>t-ups. | ing a high-tech start-<br>articularly during the<br>lic private partnershi<br>cations, energy, etc.)<br>ease the leverage of t | ear<br>p in<br>anc<br>he f  | ly stage / seed phase<br>cluding ministries, pr<br>l development banks<br>fund in terms of syne | . The high-tec<br>ivate sector co<br>. The PPP-app<br>rgy effects, ne | h start-up fund<br>ompanies from<br>roach and the<br>tworking, coad | l will be<br>high-tech<br>inclusion of<br>ching and |
| User sto  | ory & results   |  | ovo IT start-up I wan<br>t attractive conditior  |   | _   | •   | -   |   |
| Accepta<br>& indica   | nce criteria<br>itors   | <ul> <li>The</li> </ul>  | high-tech start-up fu  | nd ł  | nas been successfully   | established.  |   |   |
| Responsible MZHE<br>organization (lead)                     |   |  |  |   | Partner<br>organizations  | MF, MTI, KIESA, Development Banks                                     |   |   |
| Task sta  | rt:   | 01.06.2  | 017  |   | Task finish   | 30.12.2018  |   |   |
| Overall   | budget (€)  | 5,030,00   | 00   |   | Financial sources   | Developmen  | t Banks   |   |
| Task act  | ivities:  |  |  |   |   |   |   |   |
| No  | Activity  |  |  | D   | eliverables:  | Resp.   | Timing  | Budget  |
| 7.7.1   |   |  | an and feasibility<br>h start-up fund  |   | siness plan;<br>asibility study   | MZHE  | 1.06<br>15.09.2017  | 30,000  |
| 7.7.2   | Establish and<br>start-up fund  |  | the high-tech  | Decree on the<br>establishment of the<br>high-tech start-up<br>fund; annual reportMZHE16.09.2017<br>–<br>30.12.2018 |   |   | 5,000,000   |   |
| Comme   | Comments Best practice example:<br>High-Tech Gruenderfonds                                    |  |  | :tp:/   | //www.en.high-tech-   | gruenderfond  | s.de  |   |
| Team  | Team n.a.   |  |  |   |   |   |   |   |
| Continuous n.a.<br>Improvement                              |   |  |  |   |   |   |   |   |

### 5.1.7.8. Introduce IT entrepreneurship@school program

| Task No.   | 7.8 | Task name         | Introduce IT entrepreneurship@school program |            |    |  |  |  |
|--|-----|-------------------|--|------------|----|--|--|--|
| Priority   | 2   | Predecessor tasks | -  | % Complete | 0% |  |  |  |
| Description & rationale  |     |                   |  |            |    |  |  |  |
| The main goal of this task is to motivate and inspire the entrepreneurial spirit of students at an early age and to promote Kosovo's IT entrepreneurs of the future. |     |                   |  |            |    |  |  |  |

| Task No.                       |                              | 7.8                   | Task name                                     | I  | ntroduce IT entrepre                      | eneurship@sch  | nool program                 |               |
|--------------------------------|------------------------------|-----------------------|---|----|---|----------------|------------------------------|---------------|
| User sto                       | ry & results                 |                       | dent I want to partici<br>out entrepreneurshi | •  | e in the IT entrepren<br>the IT industry. | eurship@scho   | ol program so                | that I can    |
| Accepta<br>& indica            | nce criteria<br>tors         |                       | IT entrepreneurship<br>igh schools in Kosov   |    | hool program has be                       | en successfull | y implemented                | d in at least |
| Respons<br>organiza            | ible<br>ition (lead)         | MASHT                 |   |    | Partner<br>organizations                  | STIKK / ICK, M | NMFA, USAID                  |               |
| Task sta                       | rt:                          | 01.10.2               | 017   |    | Task finish                               | 30.12.2018     |                              |               |
| Overall I                      | oudget (€)                   | 9,000                 |   |    | Financial sources                         | NMFA, USAII    | D                            |               |
| Task act                       | ivities:                     |                       |   |    |   |                |                              |               |
| No                             | Activity                     |                       |   | D  | eliverables:                              | Resp.          | Timing                       | Budget        |
| 7.8.1                          | program incl<br>competition, | uding bus<br>excursio | •   | Pr | ogram                                     | STIKK / ICK    | 1.10<br>30.10.2017           | 3,000         |
| 7.8.2                          | Implement I<br>program       | T entrepro            | eneurship@school                              | Ev | aluation reports                          | MASHT          | 2.11.2017<br>-<br>30.12.2018 | 6,000         |
| Comme                          | Comments -                   |                       |   |    |   | •              |                              |               |
| Team                           | Team n.a.                    |                       |   |    |   |                |                              |               |
| Continuous n.a.<br>Improvement |                              |                       |   |    |   |                |                              |               |

### 5.1.7.9. Establish international linkage and sponsorship for ICK

| Task No.   | 7.9  | Task name   | Establish international linkage and sponsorship for ICK |                |                 |        |  |  |  |  |
|--|--|---|---|----------------|-----------------|--------|--|--|--|--|
| Priority   | 1  | Predecessor tasks                                 | -   |                | % Complete      | 0%     |  |  |  |  |
| Description & rational   | е  |   |   |                |                 |        |  |  |  |  |
| and in the US in order<br>Exchange of b<br>Access to fina<br>Know-how tra<br>Joint projects<br>Business deve | <ul> <li>Access to finance</li> <li>Know-how transfer</li> <li>Joint projects</li> </ul> |   |   |                |                 |        |  |  |  |  |
| User story & results   |  | keholder of ICK I want t<br>with other incubators |   | -              | -               |        |  |  |  |  |
| Acceptance criteria<br>& indicators  | <ul> <li>ICK s</li> </ul>  | signed at least 6 MoUs                            | with incubators and in                                  | novation cente | ers abroad.     |        |  |  |  |  |
| Responsible organization (lead)  | STIKK / I  | СК  | Partner<br>organizations                                | KIESA, NMFA    | , GIZ, SDC, USA | ID, EU |  |  |  |  |
| Task start:  | 2.09.201   | 16  | Task finish   | 30.12.2018     |                 |        |  |  |  |  |
| Overall budget (€)   | 12,000   |   | Financial sources                                       | NMFA, GIZ, S   | DC, USAID, EU   |        |  |  |  |  |
| Task activities:   | Task activities:   |   |   |                |                 |        |  |  |  |  |

| Task No  | ).                      | 7.9       | Task name                              | Establish internationa                 | Establish international linkage and sponsorship for ICK |                               |        |  |  |
|--|-------------------------|-----------|--|--|---|-------------------------------|--------|--|--|
| No   | Activity                |           |  | Deliverables:                          | Resp.   | Timing                        | Budget |  |  |
| 7.9.1  |                         | ategic ex | eration partners<br>port markets as    | List of potential cooperation partners | NMFA, GIZ   | 2.09<br>30.09.2016            | 2,000  |  |  |
| 7.9.2  |                         |           | l linkage for ICK<br>nnovation centers | MoUs                                   | ICK   | 1.10.2016<br>-<br>30.12.2018  | 5,000  |  |  |
| 7.9.3  | Develop and sponsorship | -         | nt international<br>for ICK            | International sponsorship program      | ICK   | 13.04.2017<br>-<br>30.12.2018 | 5,000  |  |  |
| Comments It is recommendable to estab<br>also to accelerators, innovati<br>agencies promoting IT entrep<br>Best practice examples:<br>German Silicon Valley Accele |                         |           |  | on centers, IT-specific bu             | isiness parks a   | and IT clusters               | and    |  |  |
| Team   |                         | n.a.      |  |  |   |                               |        |  |  |
| Continuous n.a.<br>Improvement   |                         |           |  |  |   |                               |        |  |  |

### 5.1.8. Strategic Pillar 8: Innovation & Applied R&D

### 5.1.8.1. Conduct information events on Horizon 2020 program (IT)

| Task No.               |   | 8.1      | Task name         | Conduct information                                 | events on Hor | izon 2020 prog | ram (IT) |  |  |  |
|------------------------|---|----------|-------------------|---|---------------|----------------|----------|--|--|--|
| Priority               |   | 1        | Predecessor tasks | -   |               | % Complete     | 30%      |  |  |  |
| Descripti              | on & rational   | е        |                   |   |               |                |          |  |  |  |
| available<br>stakehold | Horizon 2020 is the biggest EU programme for research and innovation ever with nearly EUR 80 billion of funding available over 7 years (during the period 2014 to 2020). <sup>33</sup> The main goal of this task is to inform Kosovo IT industry stakeholders (particularly IT companies) on how they can use funds provided by Horizon 2020 for their innovation and research activities. |          |                   |   |               |                |          |  |  |  |
| User stor              | User story & results As a Kosovo IT industry stakeholder I want to participate in information events on the Horizon 2020 program so that I can learn about how to use the funds provided by the program for my innovation and research activities.  |          |                   |   |               |                |          |  |  |  |
| Acceptar<br>& indicat  | ice criteria<br>ors   |          |                   | nts on the Horizon 2020<br>/ or institutions have p |               | -              |          |  |  |  |
| Responsi<br>organiza   | ble<br>tion (lead)  | STIKK    |                   | Partner<br>organizations                            | MASHT, MTI,   | MZHE, UNIV,    | EU       |  |  |  |
| Task star              | t:  | 13.03.20 | 016               | Task finish   | 28.03.2018    |                |          |  |  |  |
| Overall b              | udget (€)   | 9,000    |                   | Financial sources                                   | EU            |                |          |  |  |  |
| Task acti              | vities:   |          |                   |   |               |                |          |  |  |  |
| No Activity            |   |          |                   | Deliverables:                                       | Resp.         | Timing         | Budget   |  |  |  |

<sup>&</sup>lt;sup>33</sup> http://ec.europa.eu/programmes/horizon2020/en/what-horizon-2020.

| Task No.  | ,             | 8.1       | Task name   | Conduct information  | events on Hor                           | rizon 2020 pro                                   | gram (IT)   |  |
|---|---------------|-----------|---|--|---|--|-------------|--|
| 8.1.1   | focus) and el | aborate i | n Horizon 2020 (ICT<br>nformation<br>ro IT industry | Information material<br>(presentation)   | STIKK                                   | 13.03<br>27.03.2016                              | 3,000       |  |
| 8.1.2   | -             |           | ormation events<br>ram for the Kosovo               | Program; list of participants  | <b>STIKK</b>                            | 27.03.2016<br>/<br>27.03.2017<br>/<br>28.03.2018 | 6,000       |  |
| <ul> <li>What is being funde</li> <li>What are the average</li> <li>Which forms of funde</li> <li>What are the officia</li> <li>Activities should be closely content</li> </ul> |               |           |   | rea of ICT<br>for applicants for Horiz<br>d and to what degree?<br>ge success rates for appli<br>ling do exist?<br>I criteria? | on 2020 fundi<br>cations?<br>Competence | ng?<br>center on EU                              | projects in |  |
| Team  |               | n.a.      | ı.a.  |  |   |  |             |  |
| Continue<br>Improve   |               | n.a.      |   |  |   |  |             |  |

## 5.1.8.2. Introduce capitalization of patents, licences and development costs

| Task No.  |   | 8.2        | Task name         |                           | ntroduce capitalizatio<br>levelopment costs                    | on of patents,   | of patents, licences and |        |  |  |
|---|---|------------|-------------------|---------------------------|--|--|--------------------------|--------|--|--|
| Priority  |   | 2          | Predecessor tasks | -                         |  |  | % Complete               | 0%     |  |  |
| Descript  | Description & rationale   |            |                   |                           |  |  |                          |        |  |  |
| by introd   | The rationale behind this task is to incentivize investment into innovation and applied R&D for Kosovo IT companies by introducing capitalization of patents, licenses and development costs in financial statements according to the International Financial Reporting Standards (IFRS). |            |                   |                           |  |  |                          |        |  |  |
| User story & results As a Kosovo IT company I want to capitalize patents, licences and development costs so I can improve the credit rating of my enterprise. |   |            |                   |                           |  |  | sts so that              |        |  |  |
| Acceptance criteria<br>& indicators The capitalization of pate<br>successfully implemented  |   |            |                   |                           | nts, licences and development costs according to IFRS has been |  |                          |        |  |  |
| Responsible<br>organization (lead)  |   | MF         |                   |                           | Partner<br>organizations                                       | STIKK, MZHE, MTI, MASHT, EU,<br>USAID, Development Banks |                          |        |  |  |
| Task start:   |   | 15.01.2018 |                   |                           | Task finish  | 15.07.2018   |                          |        |  |  |
| Overall budget (€)  |   | 9,000      |                   |                           | Financial sources  | EU, USAID  |                          |        |  |  |
| Task acti   | vities:   |            |                   |                           |  |  |                          |        |  |  |
| No  | Activity  |            |                   | D                         | eliverables:   | Resp.  | Timing                   | Budget |  |  |
| 8.2.1   | Analyze international best practices and<br>standards and elaborate proposal for an<br>amendment on introducing the<br>capitalization of patents, licences and<br>development costs   |            |                   | Proposal for<br>amendment |  | MF   | 15.01<br>15.03.2018      | 6,000  |  |  |

| Task No.                  |  | 8.2  |   |          | Introduce capitalization of patents, licences and development costs |                     |       |  |  |
|---------------------------|--|------|---|----------|---|---------------------|-------|--|--|
| 8.2.2                     | 8.2.2 Adopt amendment on introducing the capitalization of patents, licences and development costs |      | Д | mendment | MF  | 16.03<br>15.07.2018 | 3,000 |  |  |
| Commer                    | Comments   |      |   |          |   |                     |       |  |  |
| Team                      |  | n.a. |   |          |   |                     |       |  |  |
| Continuous<br>Improvement |  | n.a. |   |          |   |                     |       |  |  |

## 5.1.8.3. Introduce tax incentives for investments into innovation and R&D

| Task No.  |                              | 8.3  | Task name   |                      | Introduce tax incentives for investments into innovation an R&D   |  |   |                                   |  |  |  |
|---|------------------------------|--|---|----------------------|---|--|---|-----------------------------------|--|--|--|
| Priority 1 Predecessor tasks  |                              | -  |   | % Complete           | 0%  |  |   |                                   |  |  |  |
| Description & rationale   |                              |  |   |                      |   |  |   |                                   |  |  |  |
|   | -                            | -  | rovide tax incentives<br>particularly relevant  |                      |   | -  |   |                                   |  |  |  |
|   |                              |  |   |                      | ant to benefit from tax incentives for investments into<br>I can improve the innovation capability and competitiveness of |  |   |                                   |  |  |  |
| Accepta<br>& indica   | nce criteria<br>tors         | • Tax  | incentives for investr  | nen                  | ts into innovation an   | id R&D have b  | een introduce                                     | d.                                |  |  |  |
| Responsible<br>organization (lead)  |                              | MF   |   |                      | Partner<br>organizations  | STIKK, MZHE, MTI, MASHT, EU,<br>USAID, Development Banks |   |                                   |  |  |  |
| Task sta  | rt:                          | 01.05.2017   |   |                      | Task finish   | 30.10.2017   |   |                                   |  |  |  |
| Overall b   | oudget (€)                   | 9,000  |   |                      | Financial sources   | EU, USAID  |   |                                   |  |  |  |
| Task act  | ivities:                     |  |   |                      |   |  |   |                                   |  |  |  |
| No  | Activity                     |  |   | D                    | eliverables:  | Resp.  | Timing  | Budget                            |  |  |  |
| 8.3.1   | elaborate pr<br>introduce ta | rnational best practices and<br>oposal for an decree to<br>x incentives for investments<br>ion and R&D |   |                      | oposal for decree   | MF   | 1.05<br>30.06.2017                                | 6,000                             |  |  |  |
| 8.3.2   | incentives fo                | Adopt decree on introducing tax<br>incentives for investments into<br>innovation and R&D               |   |                      | cree  | MF   | 1.07<br>30.10.2017                                | 3,000                             |  |  |  |
| Law № 11.90<br>labour trainin<br>For the purch<br>products (IPI)<br>develop softw<br>licenses and r |                              |  | ctice example:<br>L1.908: permits a cor<br>raining and R&D.<br>purchase of equipme<br>s (IPI), in addition to o<br>software. There are a<br>and royalties.<br>Brasil IT+: <u>http://www</u> | nt u<br>exei<br>also | ised in R&D, there is nption from this tax tax reductions on ar   | a 50% reduction<br>for imports of<br>mounts paid fo      | on in the tax c<br>materials use<br>or technology | n industrial<br>d to<br>transfer, |  |  |  |
| Team n.a.   |                              |  |   |                      |   |  |   |                                   |  |  |  |

| Task No.                  | 8.3  | Task name | Introduce tax incentives for investments into innovation and R&D |
|---------------------------|------|-----------|--|
| Continuous<br>Improvement | n.a. |           |  |

## 5.1.8.4. Establish open innovation system for the Kosovo IT industry

| Task No.   |   | 8.4 Task name |   |  | Establish open innovation system for the Kosovo IT industry |   |        |        |  |  |
|--|---|---------------|---|--|---|---|--------|--------|--|--|
| Priority   |   | 3             | Predecessor tasks                               | -  | - % Complete 0  |   |        | 0%     |  |  |
| Description & rationale  |   |               |   |  |   |   |        |        |  |  |
| <ul> <li>Open innovation is based on the idea of using internal as well as external sources of innovation such as customers, competitors, and academic institutions. The concept is closely related to ideas and models such as collaborative innovation, cluster-based innovation, user-engaged innovation as well as Open Source Software (OSS).</li> <li>Open innovation provides the following benefits for the IT industry: <ul> <li>Collaboratively developing product innovations, process innovations and business model innovations</li> <li>User / customer integration in the development process</li> <li>Ensuring market fit of new products and services</li> <li>Using synergies</li> <li>Reducing the costs of conducting R&amp;D</li> <li>Leveraging external knowledge and technologies</li> <li>Sharing risks</li> </ul> </li> <li>Taking into account the complexity and dynamics of the global IT industry and the limited resources of Kosovo IT SMEs, open innovation represents a highly relevant topic for the Kosovo IT sector. Therefore this task is directed at establishing an open innovation system for the Kosovo IT industry, based on close collaboration with all relevant stakeholders as well as potential customers / users.</li> </ul> |   |               |   |  |   |   |        |        |  |  |
| User sto   | ry & results  |               | ovo IT company I wai<br>ve IT solutions in clos |  | -   |   |        | velop  |  |  |
| -  | Acceptance criteria       • The open innovation system has been implemented.         & indicators       • At least 30 companies have completed the training and capacity building on open innovation. |               |   |  |   |   |        |        |  |  |
| Responsible MASHT<br>organization (lead)   |   |               |   |  | Partner<br>organizations                                    | STIKK, UNIV, MZHE, MTI, KIESA, EU,<br>USAID                         |        |        |  |  |
| Task start:  |   | 2.02.20       | 017   |  | Task finish   | 28.10.2018  |        |        |  |  |
| Overall budget (€) 43,000  |   |               |   | Financial sources  | EU, USAID   |   |        |        |  |  |
| Task activities:   |   |               |   |  |   |   |        |        |  |  |
| No   | Activity  | у             |   |  | eliverables:  | Resp.   | Timing | Budget |  |  |
| 8.4.1  | Develop and implement at least 3<br>trainings on open innovation (methods,<br>tools, processes, best practice examples)   |               | tra<br>of                                       | aining materials;<br>iining program; list<br>participants;<br>aluation reports | MASHT   | 1.09<br>25.09.2017<br>/<br>28.09.2017<br>/ 1.04.2018<br>/ 1.09.2018 | 12,000 |        |  |  |
| 8.4.2  | Develop and implement open innovation<br>platform (web solution) to promote<br>open innovation projects between IT  |               | sp  | quirements<br>ecification; open<br>novation platform                           | EU  | 2.02<br>31.03.2017  | 15,000 |        |  |  |

| Task No            |                             | 8.4  | Task name  | Establish open i  | nnovation syster  | n for the Kosovo  | IT industry  |  |
|--------------------|-----------------------------|--|--|---|---|---|--|--|
|                    | companies a                 | nd the ac  | ademia   |   |   |   |  |  |
| 8.4.3              | -                           | presenta   | ts (information<br>tions, expert talks,  | Program; list of participants   | EU  | 5.10.2017 /<br>5.10.2018  | 6,000  |  |
| 8.4.4              | on an annua<br>platform (e. | l basis (fo<br>g. mobile<br>g languag  | vation Hackathon<br>cus on specific<br>apps), a specific<br>e or framework or<br>g. e-health))   | Program; list of participants   | STIKK   | 26.10<br>30.10.2017<br>/ 24.10<br>28.10.2018  | 10,000   |  |
| Comme              | nts                         | for appl<br>STIKK / I<br>for oper<br>academ<br>The train<br>stakeho<br>followin<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | vities of this task nee<br>ied R&D in strategic I<br>CK together with the<br>innovation based or<br>ia.<br>hing and capacity builders of the Kosovo I<br>g topics should be co<br>Introduction to oper<br>Concepts and terms<br>Application areas of<br>Benefits and concer<br>Open innovation pro<br>Open innovation me<br>Innovation, Idea Con<br>Open innovation an<br>Best practice examp<br>nings on open innova<br>ctice examples:<br>ps Project: http://www.<br>NTIVE: https://www.<br>ti DEMOLA innovatio<br>athon: http://www.t | T topics.<br>Competence Centra<br>close cooperation<br>Iding on open inno<br>Findustry in the are<br>overed by the trainin<br>in novation<br>in open innovation<br>of open innovation<br>of open innovation<br>s of open innovation<br>ethods and tools (e.<br>mpetitions, Co-Crea<br>d IP<br>oles<br>ation should be imp<br>ww.open-alps.eu<br>innocentive.com<br>n platform: http://w | ers for applied R<br>between the IT<br>vation should ad<br>ea of innovation<br>ngs:<br>n<br>and inside-out p<br>g. Lead User Me<br>ation, Crowd Sou | &D should serve<br>industry, governi<br>dress all relevant<br>and applied R&D<br>processes, coupled<br>thod, Living Labs<br>ircing, etc.) | as platform<br>ment and<br>. The<br>d process)<br>, Cross- |  |
| Team               |                             | n.a.   |  |   |   |   |  |  |
| Continu<br>Improve |                             | us n.a.  |  |   |   |   |  |  |

## 5.1.8.5. Introduce IT innovation and R&D program

| Task No.  | 8.5 | Task name         | Introduce IT innovation and R&D program |  |  |  |  |  |
|---|-----|-------------------|---|--|--|--|--|--|
| Priority  | 1   | Predecessor tasks | - % Complete 0%                         |  |  |  |  |  |
| Description & rationale   |     |                   |   |  |  |  |  |  |
| The main goal of this task is to develop and implement a support program for promoting IT innovation and applied R&D in the Kosovo IT industry. The program will provide funding for business-academia cooperation in the area of innovation and R&D based on competitive and transparent tender procedures. The support program is mainly targeted at the Competence Centers for applied R&D in strategic IT topics (see Task 8.6).<br>The IT innovation and R&D program will focus on the following strategic IT topics:<br>Cloud Computing |     |                   |   |  |  |  |  |  |
| <ul> <li>Mobile Computing</li> </ul>  |     |                   |   |  |  |  |  |  |
| <ul> <li>Big Data &amp; Analytics</li> </ul>  |     |                   |   |  |  |  |  |  |

| Task No  |   | 8.5                       | Task name   | I    | ntroduce IT innovatio   | on and R&D pr   | ogram                                   |             |
|--|---|---------------------------|---|------|---|-----------------|---|-------------|
| ÷  | Industry 4.0 ((<br>IT Security<br>Open Source S<br>E-Health<br>E-Energy |                           | sical-Systems) and E                                  | Embe | edded Systems   |                 |   |             |
| User sto   | ory & results   |                           | earch projects for m                                  |      | t to use the IT innova<br>ganization together v                         |                 |   |             |
| Accepta<br>& indica  | nce criteria<br>tors  | <ul> <li>At le</li> </ul> | ast 3 R&D project p                                   | ropo | rogram is fully opera<br>sals by Kosovo IT cor<br>d by the IT innovatio | mpanies / IT in |   | olders have |
| Respons<br>organiza  | sible<br>ation (lead)   | MASHT                     |   |      | Partner<br>organizations  | STIKK, UNIV,    | MTI, MZHE, K                            | IESA, EU    |
| Task start:         1.10.2017         Task finish         30.12.2018 |   |                           |   |      |   |                 |   |             |
| Overall  | budget (€)  | 211,000                   |   |      | Financial sources   | EU              |   |             |
| Task act   | ivities:  |                           |   |      |   |                 |   |             |
| No   | Activity  |                           |   | D    | eliverables:  | Resp.           | Timing                                  | Budget      |
| 8.5.1  |   | ogram incl                | the IT innovation<br>uding procedures,<br>ncing, etc. | Co   | ncept   | EU              | 1.10<br>30.10.2017                      | 8,000       |
| 8.5.2  |   | nd R&D p                  | events on the IT<br>rogram (at least 3                |      | ogram; list of<br>rticipants  | MASHT           | 2.12.2017 /<br>2.05.2018 /<br>2.12.2018 | 3,000       |
| 8.5.3 Implement the IT innovation and R&D program                    |   |                           |   |      | oject proposals;<br>aluation reports                                    | MASHT, EU       | 15.01<br>30.12.2018                     | 200,000     |
| Comme  | nts   | -                         |   |      |   |                 | •                                       |             |
| Team   |   | n.a.                      |   |      |   |                 |   |             |
|  | Continuous n.a.<br>Improvement  |                           |   |      |   |                 |   |             |

# 5.1.8.6. Establish Competence Centers for applied R&D in strategic IT topics

| Task No.   | 8.6   | Task name   | Establish Competence Centers for applied R&D in strategic IT topics  |                  |                 |  |  |  |  |  |
|--|---|---|--|------------------|-----------------|--|--|--|--|--|
| Priority   | 2   | Predecessor tasks   | 6.10 Special competence groups% Complete0%for strategic IT topics0%  |                  |                 |  |  |  |  |  |
| Description & rationale  |   |   |  |                  |                 |  |  |  |  |  |
| Centers will be establi<br>Conducting a<br>Trend scoutin<br>Acquisition a<br>Promoting Ra<br>Helix")<br>Fostering tec<br>Developing in | shed with<br>pplied R&<br>Ig<br>nd implen<br>&D coope<br>hnology t<br>inovative | in universities or resea<br>D for the Kosovo IT in<br>nentation of joint R&D<br>ration between compa<br>ransfer<br>IT solutions for other s | ers for applied R&D in strategic IT topi<br>arch institutions and will fulfil the follo<br>dustry<br>projects (e.g. Horizon 2020)<br>inies, public sector and academia on s<br>sectors of the Kosovo IT industry (use<br>er the following strategic IT topics: | owing functions: | :<br>s ("Triple |  |  |  |  |  |

| Task No   |  | 8.6  | Task name   |       | stablish Competence<br>T topics               | e Centers for a | pplied R&D in                    | strategic |  |
|---|--|--|---|-------|---|-----------------|----------------------------------|-----------|--|
|   | IT Security<br>Open Source S<br>E-Health<br>E-Energy<br>cial Competend | uting<br>alytics<br>Cyber-Phy<br>Software<br>ce Groups | vsical-Systems) and E<br>(OSS)<br>5 (see Task 6.10) con<br>5 and nucleus for esta | sisti | ng of IT experts from                         |                 |                                  | ector and |  |
| User story & results       As a Kosovo IT stakeholder I want to use the Competence Centers for applied R&D for my organization.         Acceptance criteria & indicators <ul> <li>At least 3 Competence Centers for applied R&amp;D in strategic IT topics have been established.</li> <li>At least 6 Kosovo IT companies or public institutions have used the Competence Centers for applied R&amp;D (joint R&amp;D projects or contract research).</li> </ul>   |  |  |   |       |   |                 |                                  |           |  |
| Responsible<br>organization (lead)         MASHT         Partner<br>organizations         STIKK, UNIV, MIT, MZHE, KIESA,<br>NMFA, SDC, USAID, EU, GIZ,  |  |  |   |       |   |                 |                                  |           |  |
| Task sta  | rt:  | 01.07.20   | )17   |       | Task finish                                   | 30.12.2018      |                                  |           |  |
| Overall budget (€)275,000Financial sourcesEU, USAID, MASHT  |  |  |   |       |   |                 |                                  |           |  |
| Task act  | ivities:   |  |   |       |   |                 |                                  |           |  |
| No  | Activity   |  |   | De    | eliverables:                                  | Resp.           | Timing                           | Budget    |  |
| 8.6.1   |  | pplied R8  | the Competence<br>&D in strategic IT  | Pro   | oposal  | EU              | 1.07<br>31.08.2017               | 15,000    |  |
| 8.6.2   | Define resea<br>Competence   |  | / topics for the  | wi    | t of research topics<br>th evaluation<br>port | MASHT,<br>STIKK | 1.09<br>30.10.2017               | 5,000     |  |
| 8.6.3   |  | -  | the Competence<br>&D including Living   |       | oject proposals;<br>aluation reports          | MASHT           | 2.11.2017<br>-<br>30.12.2018     | 250,000   |  |
| 8.6.4   | research inst  | itutions t   | l linkage to similar<br>o ensure exchange<br>hnology transfer                     |       | operation<br>reements (MoUs)                  | EU              | 2.09.2017<br>-<br>30.12.2018     | 5,000     |  |
| Comments       The Competence Centers for applied R&D in strategic IT topics should be financed on a sustainable basis through:         •       EU projects / funds         •       Revenues from contract research for IT companies         •       Technology transfer projects and R&D projects financed by the Kosovo government.         It is recommendable to use the Competence Centers also for developing innovative IT solutions (e.g. cloud solutions for SMEs) for other sectors of the Kosovo IT industry in order to promote the digital transformation of the Kosovo economy and to increase its international competitiveness (see also Pillar 4 Domestic Market Development)         Best practice examples:       Forschungskampus: PPP to foster innovation: http://www.bmbf.de/en/16944.php         Open cloud initiative: Open source initiative for the development of a federal cloud infrastructure in Germany (Deutsche Wolke): http://www.deutsche-wolke.de/index.php?option=com_content&view=article&id=17         MIT Living Labs: http://livinglabs.mit.edu |  |  |   |       |   |                 | ve IT<br>'y in order<br><u>P</u> |           |  |

| Task No.                  | 8.6      | Task name   | Establish Competence Centers for applied R&D in strategic IT topics |  |  |  |  |  |
|---------------------------|----------|---|---|--|--|--|--|--|
|                           | FZI Hous | ZI House of Living Labs: <u>http://www.fzi.de/en/forschung/house-of-living-labs</u> |   |  |  |  |  |  |
| Team                      | n.a.     |   |   |  |  |  |  |  |
| Continuous<br>Improvement | n.a.     |   |   |  |  |  |  |  |

## 5.1.8.7. Establish vendor roundtables

| Task No   |                      | 8.7                              | Task name                                | E             | stablish vendor roun                            | dtables    |                   |        |
|---|----------------------|----------------------------------|--|---------------|---|------------|-------------------|--------|
| Priority  |                      | 2                                | Predecessor tasks                        | -             |   |            | % Complete        | 0%     |
| Descript  | ion & rational       | е                                |  |               |   |            |                   |        |
|   |                      |                                  |  |               | e where local IT comp<br>nnovations with large  |            |                   | nology |
| User sto  | ry & results         |                                  |  |               | o participate in vendo<br>rvice innovations wit |            |                   | scuss  |
| Accepta<br>& indica   | nce criteria<br>tors | <ul> <li>At le</li> </ul>        | ast 3 vendor roundta                     | able          | s have been establish                           | ned.       |                   |        |
| Responsible<br>organization (lead)         STIKK         Partner<br>organizations         STIKK, MIT, MZHE, KIESA, NMFA, Songanizations |                      |                                  |  |               |   | MFA, SDC,  |                   |        |
| Task start:         01.04.2017  |                      |                                  |  |               | Task finish                                     | 02.11.2018 |                   |        |
| Overall budget (€) 4,000  |                      |                                  |  |               | Financial sources                               | USAID      |                   |        |
| Task act  | ivities:             |                                  |  |               |   |            |                   |        |
| No  | Activity             |                                  |  | Deliverables: |   | Resp.      | Timing            | Budget |
| 8.7.1   |                      | •                                | endor roundtables<br>participants and IT | Co            | ncept   | STIKK      | 1.04<br>7.04.2017 | 1,000  |
| 8.7.2 Conduct vendor roundtables  |                      | Program; list of<br>participants |  | STIKK         | 25.052017<br>/<br>25.05.2018<br>/ 2.11.2018     | 3,000      |                   |        |
| Comme   | nts                  | -                                |  |               |   |            |                   |        |
| Team  |                      | n.a.                             |  |               |   |            |                   |        |
| Continuous     n.a.       Improvement     Improvement   |                      |                                  |  |               |   |            |                   |        |

## 5.1.9.1. Elaborate IT-specific marketing material (investment promotion)

| Task No                                  | 0.   | 9.1                     | Task name   |             | Elaborate IT-specific r<br>promotion)         | marketing mat                     | erial (investme                   | ent        |  |
|--|--|-------------------------|---|-------------|---|-----------------------------------|-----------------------------------|------------|--|
| Priority                                 | /  | 2                       | Predecessor tasks   | -           |   |                                   | % Complete                        | 0%         |  |
| Descrip                                  | otion & rational                             | le                      |   |             |   |                                   |                                   |            |  |
| industry<br>IT indus                     | r. The marketin try as well as o             | g materia<br>n attracti | oration of marketing<br>al will focus on the op<br>ve framework conditi<br>from the IT industry     | por<br>ions | tunities and competi<br>(e.g. tax system). It | tive advantage<br>will be designe | es provided by<br>ed according th | the Kosovo |  |
| User st                                  | ory & results                                |                         | tential foreign invest<br>t information on the<br>unities.  |             |   | -                                 |                                   | obtain     |  |
| Accepta<br>& indic                       | ance criteria<br>ators                       |                         | pecific marketing mat<br>roved by KIESA and S   |             |   | motion has be                     | en elaborated                     | and        |  |
| Responsible KIESA<br>organization (lead) |  |                         |   |             | Partner<br>organizations                      | STIKK, USAID                      | STIKK, USAID, NMFA, GIZ           |            |  |
| Task sta                                 | art:   | 17.11.20                | 016   |             | Task finish                                   | 27.02.2017                        |                                   |            |  |
| Overall                                  | budget (€)                                   | 18,000                  |   |             | Financial sources                             | USAID                             |                                   |            |  |
| Task ac                                  | tivities:                                    |                         |   |             |   |                                   |                                   |            |  |
| No                                       | Activity                                     |                         |   | D           | eliverables:                                  | Resp.                             | Timing                            | Budget     |  |
| 9.1.1                                    |  |                         | n on investment<br>osovo IT industry  | Pro         | esentation (PPT)                              | KIESA                             | 17.11.2016<br>-<br>30.01.2017     | 8,000      |  |
| 9.1.2                                    | Develop bro<br>industry incl<br>opportunitie | uding inv               | the Kosovo IT<br>estment  | Br          | ochure  | KIESA                             | 5.01<br>27.02.2017                | 10,000     |  |
| Comme                                    | ents   | advanta<br>promoti      | tent of the marketing<br>ges) needs to be clos<br>on of the Kosovo IT ir<br>d as well as the corres | ely<br>ndu  | coordinated with the stry. A comprehensive    | e marketing ma<br>ve marketing a  | aterial used for                  | export     |  |
| Team                                     |  | n.a.                    |   |             |   |                                   |                                   |            |  |
| Continuous n.a.<br>Improvement           |  |                         |   |             |   |                                   |                                   |            |  |

# 5.1.9.2. Develop special information section on the Kosovo ICT industry on KIESA website

| Task No.  | 9.2   | Task name         | Develop special information section on the Kosovo ICT industry on KIESA website |  |  |  |  |  |
|---|---|-------------------|---|--|--|--|--|--|
| Priority  | 1   | Predecessor tasks | 3.7 integrated marketing &<br>branding concept% Complete<br>0%                  |  |  |  |  |  |
| Description & rationale   |   |                   |   |  |  |  |  |  |
| This task includes the development and integration of a special information section on the Kosovo ICT industry on the KIESA website. The goal of this task is to maximize the reach of the investment and export promotion activities for the Kosovo IT industry. |   |                   |   |  |  |  |  |  |
| User story & results  | As a potential foreign investor I want to use the KIESA website so that I can obtain relevant |                   |   |  |  |  |  |  |

| Task No                               | ).  | 9.2     | Task name                             |   | Develop special infor<br>ndustry on KIESA we |                 | n on the Kosov      | o ICT  |  |
|---------------------------------------|---|---------|---------------------------------------|---|--|-----------------|---------------------|--------|--|
|                                       |   | informa | ation on the Kosovo I                 | T in  | dustry and correspor                         | nding investme  | ent opportunit      | ies.   |  |
| Accepta<br>& indica                   | ance criteria<br>ators  | KIES    | A website.<br>ICT industry section of | section on the Kosovo ICT industry has been included in the<br>on the KIESA-website has achieved a KPI of at least 150 visitors , |  |                 |                     |        |  |
| Respon<br>organiz                     | sible<br>ation (lead)   | KIESA   |                                       |   | Partner<br>organizations                     | STIKK, USAID    | ), NMFA, GIZ        |        |  |
| Task start: 1.05.2017                 |   |         |                                       |   | Task finish                                  | 30.09.2017      |                     |        |  |
| Overall budget (€) 3,000              |   |         |                                       |   | Financial sources                            | USAID           |                     |        |  |
| Task ac                               | tivities:   |         |                                       |   |  |                 |                     |        |  |
| No                                    | Activity  |         |                                       | D   | eliverables:                                 | Resp.           | Timing              | Budget |  |
| 9.2.1                                 | Develop and integrate special<br>information section on the Kosovo ICT<br>industry in the KIESA website (e.g. under<br>section "Investment Opportunities" /<br>"Main Export Sectors"), including<br>success stories, key contacts and links |         |                                       | W   | ebsite section                               | KIESA           | 1.05<br>15.05.2017  | 2,000  |  |
| 9.2.2                                 |   |         |                                       | Links   |  | KIESA           | 18.05<br>30.09.2017 | 1,000  |  |
| Comments Close coordination with corr |   |         |                                       | espo  | onding activities in Pi                      | llar 3 Export P | romotion requ       | iired. |  |
| Team n.a.                             |   |         |                                       |   |  |                 |                     |        |  |
| Continuous n.a.<br>Improvement        |   |         |                                       |   |  |                 |                     |        |  |

# 5.1.9.3. Introduce incentive scheme for FDI in the Kosovo IT industry

| Task No.  | 9.3 | Task name                             | Introduce incentive so   | heme for FDI  | in the Kosovo IT  | industry |  |  |  |
|---|-----|---------------------------------------|--------------------------|---------------|-------------------|----------|--|--|--|
| Priority  | 1   | Predecessor tasks                     | -                        |               | % Complete        | 0%       |  |  |  |
| Description & rational  | e   |                                       |                          |               |                   |          |  |  |  |
| A climate conducive to Foreign Direct Investment (FDI) in the Kosovo IT industry needs to be created. Therefore this<br>task includes the introduction of financial and non-financial incentives for FDI in the Kosovo IT industry.<br>FDI in the Kosovo IT industry is important with regards to job creation / employment promotion and technology<br>transfer. Furthermore, local IT companies can benefit from the presence of international companies in Kosovo in<br>terms of subcontracting / outsourcing (indirect internationalization).User story & resultsAs a potential foreign investor I want to use incentive schemes so that I can generate<br>specific benefits for my investment in the Kosovo IT industry. |     |                                       |                          |               |                   |          |  |  |  |
|   |     | sovo IT industry stakeh<br>IT sector. | older I want to use inco | entive scheme | es to attract FDI | to the   |  |  |  |
| Acceptance criteria<br>& indicators   |     |                                       |                          |               |                   |          |  |  |  |
| Responsible   | MF  |                                       | Partner                  | KIESA, MTI, N | AZHE, STIKK, EU   | , USAID, |  |  |  |

| Task No   | 0.                             | 9.3  | Task name                        | 1              | ntroduce incentive s | cheme for FDI | in the Kosovo                | IT industry |  |
|---|--------------------------------|--|----------------------------------|----------------|----------------------|---------------|------------------------------|-------------|--|
| organiz   | zation (lead)                  |  |                                  |                | organizations        | GIZ           | GIZ                          |             |  |
| Task st   | art:                           | 15.01.20   | )17                              |                | Task finish          | 30.12.2018    | 30.12.2018                   |             |  |
| Overall   | l budget (€)                   | 10,000   |                                  |                | Financial sources    | USAID, EU     |                              |             |  |
| Task ac   | ctivities:                     | •  |                                  |                |                      |               |                              |             |  |
| No  | Activity                       |  |                                  | D              | eliverables:         | Resp.         | Timing                       | Budget      |  |
| 9.3.1   | regional) ber<br>practice exam | Conduct international (and particularly<br>regional) benchmarking and identify best<br>practice examples of incentives schemes<br>for promoting FDI in the IT industry |                                  |                | nchmarking study     | GIZ           | 15.01<br>27.02.2017          | 5,000       |  |
| 9.3.2   |                                |  |                                  | Inc            | centive scheme       | MF            | 2.03<br>29.05.2017           | 5,000       |  |
| 9.3.3   | Implement in promoting F       |  | scheme for<br>Kosovo IT industry | Re             | ports                | MF            | 1.06.2017<br>-<br>30.12.2018 | -           |  |
| Comments Incentive schemes need to be a regional level. |                                | e co   | mpetitive and attrac             | tive on a glob | al but particula     | arly also on  |                              |             |  |
| Team n.a.   |                                |  |                                  |                |                      |               |                              |             |  |
| Continuous n.a.<br>Improvement                          |                                |  |                                  |                |                      |               |                              |             |  |

# 5.1.9.4. Engage key account manager for the IT industry at KIESA

| Task No.   | 9.4                          | Task name  | Engage key account m     | nanager for the | e IT industry at I | KIESA     |
|--|------------------------------|--|--------------------------|-----------------|--------------------|-----------|
| Priority   | 1                            | Predecessor tasks  | -                        |                 | % Complete         | 0%        |
| Description & rational   | e                            |  |                          |                 |                    |           |
| The rationale behind the manager. The key according for foreign invest | ount mana                    |  |                          |                 |                    |           |
| User story & results   | informa                      | tential foreign investor<br>ation and advice on the<br>aent activities in Kosovo           | Kosovo IT industry and   | -               |                    | o provide |
| Acceptance criteria<br>& indicators                                    | <ul> <li>The ever</li> </ul> | itable key account mar<br>key account manager h<br>nts / year and has cond<br>ort clients. | as presented the Koso    | vo IT industry  |                    |           |
| Responsible<br>organization (lead)                                     | KIESA                        |  | Partner<br>organizations | MTI, STIKK, U   | ISAID, EU          |           |
| Task start:  | 01.12.20                     | )16  | Task finish              | 30.12.2018      |                    |           |
| Overall budget (€)   | 54,000                       |  | Financial sources        | USAID, EU, K    | IESA               |           |
| Task activities:   |                              |  |                          |                 |                    |           |

| Task No. |                                 | 9.4                      | Task name  | Engage key account r       | nanager for th | e IT industry a              | t KIESA |
|----------|---------------------------------|--------------------------|--|----------------------------|----------------|------------------------------|---------|
| No       | Activity                        |                          |  | Deliverables:              | Resp.          | Timing                       | Budget  |
| 9.4.1    | Elaborate jol<br>manager        | o descript               | ion for key account  | Job description            | KIESA          | 1.12<br>5.12.2016            | 1,000   |
| 9.4.2    | Select and er<br>for the IT ind |                          | account manager<br>(IESA   | Employment contract        | KIESA          | 8.12.2016<br>-<br>27.02.2017 | 50,000  |
| 9.4.3    | coaching and industry (ind      | d training<br>ustry stru | nanager with<br>on the Kosovo IT<br>octure, companies,<br>e proposition, etc.) | Training documents         | STIKK          | 2.03<br>27.03.2017           | 3,000   |
| Commer   | nts                             |                          | account manager sho<br>T industry.   | ould be also involved in e | export promot  | ion activities f             | or the  |
| Team     |                                 | n.a.                     |  |                            |                |                              |         |
|          | n.a.<br>provement               |                          |  |                            |                |                              |         |

# 5.1.9.5. Conduct specialized marketing & PR activities

| Task No   |  | 9.5                  | Task name                                     | Conduct specialized m  | narketing & PF                                      | R activities    |  |              |  |  |  |  |  |
|---|--|----------------------|---|--|---|-----------------|--|--------------|--|--|--|--|--|
| Priority  |  | 2                    | Predecessor tasks                             | -  |   |                 | % Complete   | 0%           |  |  |  |  |  |
| Descript  | ion & rational   | e                    |   | _  |   |                 |  |              |  |  |  |  |  |
|   | -  |                      | romote Kosovo as IT<br>nation events in targe |  |   | cing location v | vill include put   | lications in |  |  |  |  |  |
| User sto  | ry & results   |                      |   | akeholder I want to use specialized marketing and PR activities in<br>as a high-potential investment and outsourcing location. |   |                 |  |              |  |  |  |  |  |
| <ul> <li>Acceptance criteria</li> <li>At least two articles / year</li> <li>At least 3 information e year have been conduction</li> </ul> |  |                      |   |  | •   | dustry (focus:  | investment pro   | omotion) /   |  |  |  |  |  |
| Respons<br>organiza   | ible<br>ition (lead)                                       | KIESA                |   |  | Partner<br>organizations                            | MTI, USAID,     | EU   |              |  |  |  |  |  |
| Task sta  | rt:  | 02.03.2              | 017   |  | Task finish   | 30.12.2018      |  |              |  |  |  |  |  |
| Overall I   | oudget (€)   | 40,000               |   |  | Financial sources                                   | USAID, EU, K    | IESA   |              |  |  |  |  |  |
| Task act  | ivities:   |                      |   |  |   |                 |  |              |  |  |  |  |  |
| No  | Activity   |                      |   | D  | eliverables:  | Resp.           | Timing   | Budget       |  |  |  |  |  |
| 9.5.1   | Elaborate an<br>whitepapers<br>(investment<br>opportunitie | on the K<br>and outs | osovo IT industry<br>ourcing                  | Pu   | blications  | STIKK           | 2.03.2017<br>-<br>30.12.2018   | 10,000       |  |  |  |  |  |
| 9.5.2   |  |                      |   |  | ograms of<br>ormation events;<br>as of participants | KIESA           | 3.04<br>7.04.2017 /<br>3.09.7.09.2<br>017 /<br>3.11<br>5.11.2017 /<br>4.02<br>8.2.2018 / | 30,000       |  |  |  |  |  |

| Task No.                  | 9.5  | Task name  | Conduct specialized market  | ting & PR activities  |
|---------------------------|--|--|---|---|
| Comments                  | · ·  |  |   | 3.06<br>7.06.2018 /<br>3.11<br>7.11.2018<br>e task 3.5 B2B match-making   |
|                           | Whitepa<br>particula<br>Best pra<br>Investor<br><u>content</u><br>Special e<br>Outsour | arly effective.<br>ctice example:<br>'s Guide on Mexico's I<br><u>'uploads/2012/05/Me</u><br>emphasis should be pla<br>cing Journal: <u>http://w</u> | T Industry: <u>http://nearshorea</u><br>xico-investment-guide-busin<br>aced on publishing articles in | americas.com/wp-<br>ess-technology-services-2012.pdf<br>relevant media such as the<br>articles should be also placed in |
| Team                      | n.a.   |  |   |   |
| Continuous<br>Improvement | n.a.   |  |   |   |

## 5.1.9.6. Establish Digital Tech Park

| Task No.  |                                 | 9.6                   | Task name   | E             | stablish Digital Tech   | Park                               |                               |                                    |
|---|---------------------------------|-----------------------|---|---------------|---|------------------------------------|-------------------------------|------------------------------------|
| Priority  |                                 | 1                     | Predecessor tasks                                   | -             |   |                                    | % Complete                    | 0%                                 |
| Descript  | ion & rational                  | е                     |   |               |   |                                    |                               |                                    |
| specific n<br>industry                                    | needs of ICT co<br>and generate | ompanies<br>multiplie | (particularly MNCs),                                | will<br>IT ir | ramework conditions<br>attract additional inv<br>ndustry. The Digital T<br>ation. | vestment (FDI)                     | into the Koso                 | vo IT                              |
| User sto  | ry & results                    | to get a              |   | iewo          | ant to establish my bo<br>ork conditions, incent<br>as more effectively.          |                                    | •                             |                                    |
| Acceptance criteria The Digital Tech Park is & indicators |                                 |                       |   |               | operational by the er   | nd of 2018.                        |                               |                                    |
| Responsible MTI, MZHE<br>organization (lead)              |                                 |                       |   |               | Partner<br>organizations  | KIESA, MF, E<br>Banks, privat      | U, STIKK, Deve<br>e investors | elopment                           |
| Task sta  | rt:                             | 5.01.20               | 17  |               | Task finish   | 30.12.2018                         |                               |                                    |
| Overall I   | oudget (€)                      | 1,110,00              | 00  |               | Financial sources   | Developmen<br>investors, EU        | t Banks, privat               | e                                  |
| Task act  | ivities:                        |                       |   |               |   |                                    |                               |                                    |
| No  | Activity                        |                       |   | D             | eliverables:  | Resp.                              | Timing                        | Budget                             |
| 9.6.1   | including inc                   | entive scl            | Economic Zones<br>neme (preferential<br>and customs |               | lapted law on Free<br>onomic Zones  | MF                                 | 5.01<br>27.03.2017            | 10,000                             |
| 9.6.2   | Elaborate fea<br>for the Digita |                       | udy and concept<br>rk                               |               | asibility study and<br>ncept  | Developme<br>nt Banks              | 1.04<br>28.08.2017            | 100,000                            |
| 9.6.3   |                                 |                       |   |               | gital Industry Park   | Private<br>investors,<br>Developme | 1.09.2017<br>-<br>30.12.2018  | 1,000,000<br>(public<br>contributi |

| Task No.                  | 9.6   | Task name  | Establish Digital Tech   | Park  |   |   |
|---------------------------|---|--|--|---|---|---|
|                           |   |  |  | nt Banks,<br>MF   |   | on)   |
| Comments                  | correspo<br>Park sho<br>(incentiv<br>Best pra<br>Vietnam<br>centralis<br><u>business</u><br>Egypt Sr<br>Poland: | onding law / governm<br>ould receive preferent<br>ve scheme).<br>ctice examples:<br>ctice examples:<br>Government's Decro<br>sed IT zone: <u>http://ww<br/>s-investment-in-it-fiel</u><br>mart Villages: <u>http://w</u> | be established in the for<br>ent decree, enterprises<br>ial tax, investment credi<br>ee No154/2013/ND-CP r<br><u>vw.moit.gov.vn/en/New</u><br><u>d-at-the-centralized-it-zu</u><br><u>vww.smart-villages.com</u> ,<br><u>ttp://www.sse.krakow.p</u><br><u>vw.hitpark.ro/en</u> | and organizat<br>it and customs<br>regulating ince<br>rs/492/incenti<br>one.aspx<br>/ | ions in the Dig<br>s procedures tr<br>entives for inve<br>ve-policy-for-r | ital Tech<br>reatment<br>estment in<br>new- |
| Team                      | n.a.  |  |  |   |   |   |
| Continuous<br>Improvement | n.a.  |  |  |   |   |   |

## 5.2. Timetable

The following timetable (Gantt Charts) provides a detailed project schedule for the implementation of the Kosovo IT Strategy. It includes the timing and sequence of tasks and activities according to the operational plan, as well as the corresponding priorities, responsibilities and budgets. The files in MS Project have been stored in the Kosovo IT Strategy SharePoint.

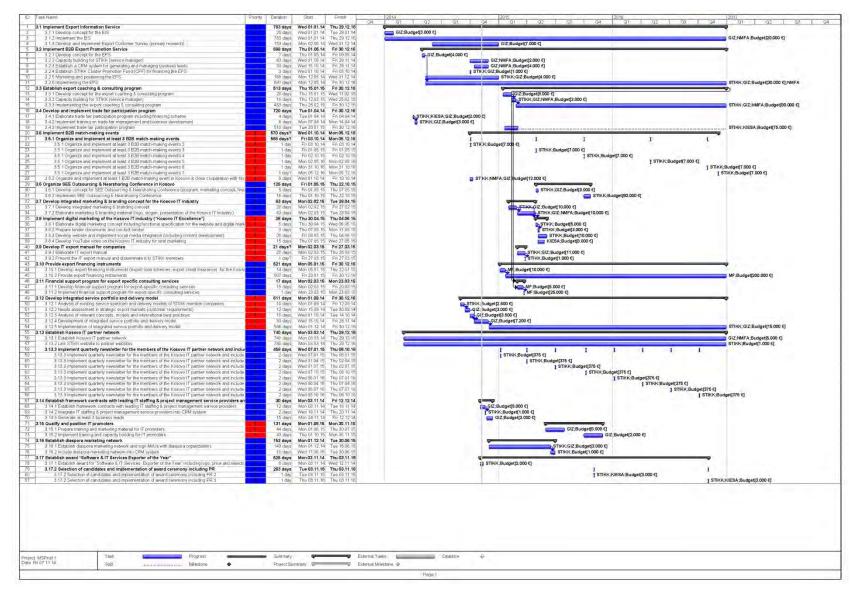
# **5.2.1.** Timetable Strategic Pillar 1: IT Promotion Policy

| 1<br>2<br>3<br>4 |  | Priority | Duration | Start        | Finish       | Q4   | 2014<br>01 | 02     | 03      | I C     | 2015       | 0       | 02 03  | 3 04        | 201       |          | 2 03        |             | 017<br>Q1 Q2     |
|------------------|--|----------|----------|--------------|--------------|------|------------|--------|---------|---------|------------|---------|--|-------------|-----------|----------|-------------|-------------|------------------|
| 3 4              | 1.1 Establish Ministry of Information and Communications Technology  | 1        |          | Wed 01.10.14 |              | -    |            |        | 20      | (per s  |            | _       |  |             | _         |          |             | - Averal    |                  |
| 0                | 1.1.1 Develop implementation concept for the ICT Ministry of Kosovo (feasibility study, analysis   | 1        | 80 dys   | Wed 01.10.14 | Tue 20.01.15 |      |            |        |         |         |            |         | ;Budget[8  | [€ 000.0    |           |          |             |             |                  |
|                  | 1.1.2 Elaborate legislative proposal for the establishment of the ICT Ministry of Kosovo   |          | 10 dys   | Wed 21.01.15 | Tue 03.02.15 |      |            |        |         | -       |            | U;Bud   |  |             |           |          |             |             |                  |
|                  | 1.1.3 Adopt decree / law on the establishment of the ICT Ministry of Kosovo  | 1        | 1 dy?    | Wed 04.02.15 | Wed 04.02.15 |      |            |        |         |         | ЬZ         | KM;B    | udget  |             |           |          |             |             |                  |
|                  | 1.1.4 Establish ICT Ministry of Kosovo   | 0        |          | Thu 05.02.15 |              |      |            |        |         | - 1     | - č        | _       | _  |             |           |          | 1[1.000.000 | (€]         |                  |
| 1                | 1.1.5 Introduce position of National CIO within the ICT Ministry of Kosovo   | 1        | 80 dys   | Thu 05.02.15 | Wed 27.05.15 |      |            |        |         | 1       | -          |         | ZKM;B  | udget[80    | 0.000€    | 1        |             |             |                  |
| 7                | 1.1.6 Establish National IT Promotion Agency   | 1        | 300 dys  | Thu 28.05.15 | Wed 20.07.16 |      |            |        |         | 1       |            | _       | -  | 17 A. 19 S. |           |          | ZKM         | ;Budget[3   | 00.000 €]        |
| 1                | 1.2 Establish National Committee on Digital Transformation   |          | 565 dys? | Mon 03.11.14 | Fri 30.12.16 |      |            |        |         | 100     | -          | _       | -  | -           | -         | _        | _           |             |                  |
|                  | 1.2.1 Identify committee members   | 1        | 1 dy?    | Mon 03.11.14 | Mon 03.11.14 |      |            |        |         | Ъ       | KM:MZH     | E:MA    | P;Budget   | [1.000 €]   | 1.5       |          |             |             |                  |
| 0                | 1.2.2 Establish National Committee on Digital Transformation and identify focus topics (e.g. indu  | -        |          | Tue 04.11.14 |              |      |            |        |         |         |            |         | ;ZKM;MZ  |             |           |          |             |             |                  |
| 1 0              | 1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on   | 1        |          | Sun 08.11.15 |              |      |            |        |         | 1       |            |         |  | T           |           |          |             | T           |                  |
| 2 1              | 1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a   |          |          | Sun 08.11.15 |              |      |            |        |         | 1       |            |         |  | T.S         | STIKK     | Budget[1 | 000 €1      | +           |                  |
| 3                | 1 2.3 Organize meetings / workshops of National Committee on Digital Transformation on a   |          |          | Tue 08.11.16 |              |      |            |        |         |         |            |         |  |             |           | and and  | 1966.41     | TSTIK       | K;Budget[1.000   |
| 4                | 1.2.4 Implement awareness raising campaign on digital transformation and the strategic importa-  | 1        |          | Mon 03.11.14 |              |      |            |        |         | à       | STIKK B    | ludget  | [10.000 €]   |             |           |          |             | 1 - 111     |                  |
| 5 1              | 1.2.5 Place the IT industry on national priority list  |          |          | Fri 07.11.14 |              |      |            |        |         |         |            | aagoi   | (101000 e)   |             | _         |          |             |             | KM;Budget        |
| 6                | 1.3 Implement capacity building on IT sector promotion   |          |          |              | Thu 11.12.14 |      |            |        |         |         |            |         |  |             | 1         |          |             |             | er mi, Bri og st |
| 7                | 1.3.1 Develop training concept and material for capacity building in IT sector promotion   |          |          | Mon 01.12.14 |              |      |            |        |         |         | GIZ; Bu    | Itonhu  | 1 000 61   |             |           |          |             |             |                  |
| 8 1              | 1.3.2 Conduct training workshop (3 days) on IT sector promotion  |          |          | Mon 08.12.14 |              |      |            |        |         |         |            |         | [4.000 €]  |             |           |          |             |             |                  |
| 9                | 1.3.3 Provide manual and toolbox on IT sector promotion  |          |          | Mon 01.12.14 |              |      |            |        |         | 1       | GIZ;Bu     |         | [4.000 C]  |             |           |          |             |             |                  |
| 0                | 1.3.3 Provide manual and toolbox on 11 sector promotion  |          |          | Thu 01.01.15 |              |      |            |        |         | Î.      | GIZ, DU    | allar   |  |             |           |          |             | -           |                  |
|                  |  |          |          |              |              |      |            |        |         |         | -          |         |  | 00.01       |           |          |             | -           |                  |
| 1                | 1.4.1 Design and implement measures to protect Intellectual Property Rights (IPR)  |          |          | Thu 01.01.15 |              |      |            |        |         |         |            |         | udget[30.0   |             |           |          |             |             |                  |
| 2                | 1.4.2 Design and implement measures to stimulate the supply of venture capital (e.g. tax incentiv  |          |          | Thu 01.01.15 |              |      |            |        |         |         | M          | r ;Bu   | dget[9.000   | (e)         |           |          |             |             |                  |
| 3 0              | 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compa   |          |          | Wed 14.01.15 |              |      |            |        |         |         | 1          |         |  |             | İ         |          |             |             |                  |
| 4                | 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compare   |          |          | Wed 14.01.15 |              |      |            |        |         |         | IST        | KK;B    | udget[1.0  | 00€]        | 24        | -        |             | -           |                  |
| 5 🗊              | 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compare   | 1        |          | Thu 14.01.16 |              |      |            |        |         |         | 10 C       |         | S. Ler   |             |           | TIKK;Bu  | dget[1.000  | €]          |                  |
| 6 🔳              | 1.4.4 Introduce educational leave (3 days / year) to promote continuing education and profession   |          |          | Wed 14.01.15 |              |      |            |        |         |         |            | MASH    | T;Budget   | [3.000 €]   |           |          |             |             |                  |
| 7                | 1.4.5 Promote the availability of public company data  |          |          | Wed 14.01.15 |              |      |            |        |         | - 11    |            |         |  |             |           |          |             |             | MAP;Budget[3.0   |
| 8                | 1.5 Introduce income tax incentives for certified software developers  |          |          | Thu 01.01.15 |              |      |            |        |         |         | -          | 7       |  |             |           |          |             |             |                  |
| 9                | 1.5.1 Elaborate draft decree on income tax incentives for certified software developers  |          |          | Thu 01.01.15 |              |      |            |        |         |         |            |         | et[3.000 €   | 0           |           |          |             |             |                  |
| 0                | 1.5.2 Adopt decree on income tax incentives for certified software developers  |          | 40 dys   | Fri 09.01.15 |              |      |            |        |         | - 1     | Č          | MF;     | Budget   |             |           |          |             |             |                  |
| a                | 1.6 Reform public IT procurement system  |          |          | Thu 15.01.15 |              |      |            |        |         | 1       | -          |         |  |             |           |          |             |             |                  |
| 2 🗉              | 1.6.1 Revise tender procedures for public IT procurement   |          |          | Thu 15.01.15 |              |      |            |        |         | 1       | D.V        |         | Bank;Bud   |             |           |          |             |             |                  |
| 13               | 1.6.2 Provide capacity building on IT procurement for public servants  |          | 56 dys   | Fri 06.02.15 | Fri 24.04.15 |      |            |        |         |         |            |         | Budget[1   | 5.000 €];E  | EU        |          |             |             |                  |
| 14               | 1.7 Introduce standards and methodologies for IT management in the public sector   |          | 588 dys  | Wed 01.10.14 | Fri 30.12.16 |      |            |        |         | Que la  | -          | -       |  |             |           |          |             |             |                  |
| 5                | 1.7.1 Identify relevant IT standards and methodologies (description o standard, scope, evaluatio   | 2        | 5 dys    | Wed 01.10.14 | Tue 07.10.14 |      |            |        |         | MA      | P;Budge    | t[5.00  | 0€]  |             |           |          |             |             |                  |
| 6                | 1.7.2 Elaborate proposal for capacity building and training in standards and methodologies for pu  |          | 12 dys   | Wed 08.10.14 | Thu 23.10.14 |      |            |        |         | M 1     | AP;Budg    | jet[12. | .000 €]  |             |           |          |             |             |                  |
| 7                | 1.7.3 Conduct capacity building and training in IT standards and methodologies for civil servants  |          | 570 dys  | Mon 27.10.14 | Fri 30.12.16 |      |            |        |         | 6.0     | 1.21.1.2.1 |         |  |             | _         |          |             |             | STIKK;MAP;Bud    |
| 8                | 1.7.4 Conduct capacity building and training in IT standards and methodologies for Kosovo IT cc  |          | 570 dys  | Fri 24.10.14 | Thu 29.12.16 |      |            |        |         | C       |            | _       |  |             |           |          |             |             | STIKK;Budget[15  |
| 9                | 1.8 Reduce customs tariffs and VAT for IT equipment  | 1        | 84 dys   | Thu 01.01.15 | Tue 28.04.15 |      |            |        |         |         | -          |         |  |             |           |          |             | _           |                  |
| 0                | 1.8.1 Elaborate legislative proposal for the reduction of customs tariffs and VAT for IT equipment   |          | 64 dys   | Thu 01.01.15 | Tue 31.03.15 |      |            |        |         |         | -          | EL      | J;Budget[  | 3.000 €]    |           |          |             |             |                  |
| 1                | 1.8.2 Adopt decree / law on the reduction of customs tariffs and VAT for IT equipment  |          | 20 dys   | Wed 01.04.15 | Tue 28.04.15 |      |            |        |         |         | -          |         | MF ;Budg   |             |           |          |             |             |                  |
| 2                | 1.9 Establish National IT Quality Policy   |          |          | Mon 02.03.15 |              |      |            |        |         | - 1     |            | _       |  | _           | -         |          |             |             |                  |
| 3 1              | 1.9.1 Establishment of a joint working group or forum including all relevant stakeholders of the IT  |          | 3 dys    | Mon 02 03 15 | Wed 04.03 15 |      |            |        |         |         |            | STIK    | K;Budget   | [1.000 €]   | 1         |          |             | -           |                  |
| 4                | 1.9.2 Elaborate National IT Quality Policy (analysis, objectives, measures, implementation, moni   |          | 477 dys  | Thu 05.03.15 | Fri 30.12.16 |      |            |        |         |         |            | -       |  | 0.00X.01    | -         |          |             |             | STIKK; Budget[12 |
| 5 1              | 1.9.3 Implement National IT Quality Policy   |          |          | Thu 01.10.15 |              |      |            |        |         |         | 1.1        | -       |  | 6           |           |          |             |             | STIKK; Budget[1  |
| 6                | 1.10 Introduce IT Industry Barometer   | -        |          | Wed 01.01.14 |              |      | _          |        | _       | _       | -          |         | _  | -           | -         |          | 1           |             |                  |
| 7 1              | 1.10.1 Customize the IT Industry Barometer methodology and tool provided by GIZ to the specifi   |          |          | Wed 01.01.14 |              |      | GIZ:E      | udget[ | .000 E1 | 11      |            |         |  |             |           |          |             |             |                  |
| 8 0              | 1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis   |          |          | Mon 21.04.14 |              | h 11 |            | -      |         | 1       |            |         |  |             |           |          |             |             |                  |
| 9                | 1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 1   |          |          | Mon 21.04.14 |              |      |            |        | STIKK   | Buder   | (5.000 €   |         |  |             |           | -        |             |             |                  |
|                  | 1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 2   |          |          | Mon 20.04.15 |              |      |            |        | 2.004   |         |            |         | STIKK;   | Sudget 15   | .000 F1   | ÷        |             |             |                  |
| 1                | 1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 3   |          |          | Wed 20.04.16 |              |      |            |        |         |         |            |         | e marty i  |             |           |          | STIKK;Bu    | daet[5,000  | e                |
| 2 11             | 1,10.3 Conduct press conference to present the ITIB results  | -        |          | Tue 15.04.14 |              |      |            | TSTU   | K;Bud   | netra n | 0 41       |         |  |             |           | -        | - ////      | - Josforcoo | -                |
| 3                | 1.11 Implement initiative "IT 4 Social Inclusion" (CSR)  | -        |          | Fri 01.05.15 |              |      |            | 1010   |         | anto: 0 | 1          |         | The second s |             |           |          |             |             |                  |
| 4                | 1.11.1 Define and implement joint CSR activities on STIKK level (donations, trainings for disable  |          | 3 dys    |              |              |      |            |        |         |         |            |         | STIKK;B  | udget       |           |          |             |             |                  |
| 5                | 1.11.2 Elaborate proposal on how IT solutions could empower the elderly and people with disable  |          |          | Wed 06.05.15 |              |      |            |        |         | 11      |            |         | STIKK:B  |             | 000 61    |          |             |             |                  |
|                  | 1.11.2 Elaborate proposal on now 11 solutions could empower the eldeny and people with disable<br>1.11.3 Design and implement special job integration program for persons with autism, including t | -        |          | Mon 11.05.15 |              |      |            |        |         |         |            |         |  | K;Budge     |           |          |             |             |                  |
| 6                | 1.11.3 Design and implement special too integration program for persons with autism, including t   |          | 20 Uya   | Won 11.03.15 | Fn 19.00.15  |      | _          |        |         | 1       |            |         | SUN  | R, buuge    | et[ 30.00 | 00.61    |             |             |                  |

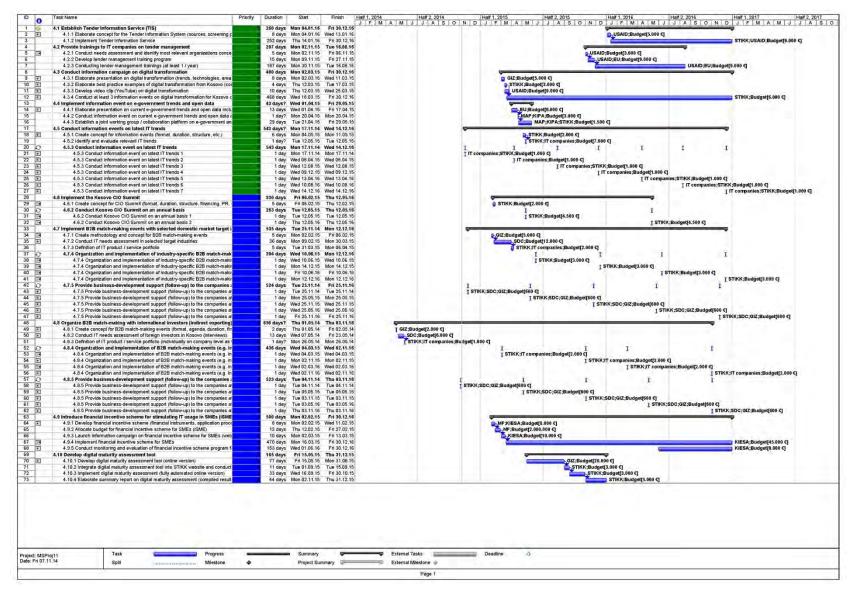
# 5.2.2. Timetable Strategic Pillar 2: Company Excellence & Quality

| 783 days<br>60 days<br>200 days<br>723 days<br>260 days<br>260 days<br>351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>455 days<br>1 day<br>415 days?   | Wed 01.01.14<br>Wed 26.03.14<br>Wed 26.03.14<br>Wed 26.03.14<br>Mon 03.11.14<br>Thu 01.01.15<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.15<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 01.12.14   | Fri 30.12.16<br>Tue 25.03.14<br>Tue 30.12.14<br>Fri 30.12.16<br>Fri 30.12.15<br>Wed 30.12.15<br>Mon 22.02.16<br>Mon 20.10.14<br>Fri 20.02.15  | JIFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAIS<br>GIZ;Budget[3.000 €]<br>STIKK;GIZ;Budget[20.000 €]<br>STIKK;NMFA;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]<br>STIKK;GIZ;Budget[1.000 €]  |
|---|--|---|--|
| 200 days<br>723 days<br>260 days<br>260 days<br>351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days  | Wed 26.03.14<br>Wed 26.03.14<br>Mon 03.11.14<br>Thu 01.01.15<br><b>Mon 20.10.14</b><br>Fri 20.02.15<br>Mon 22.02.16<br><b>Mon 01.12.14</b><br>Mon 01.12.14<br>Mon 02.03.15   | Tue 30.12.14<br>Fri 30.12.16<br>Fri 30.10.15<br>Wed 30.12.15<br>Mon 22.02.16<br>Mon 20.10.14<br>Fri 20.02.15<br>Fri 30.12.16<br>Fri 30.12.16  | STIKK;GIZ;Budget[20.000 €]<br>GIZ;Budget[5.000 €]<br>STIKK;NMFA;GIZ;Budget[20.000 €]<br>I<br>STIKK;OIZ;Budget[1.000 €]<br>I<br>STIKK;GIZ;Budget[1.000 €]<br>I<br>STIKK;GIZ;Budget[1.000 €]   |
| 723 days<br>260 days<br>260 days<br>351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>65 days<br>65 days<br>1 day?<br>415 days  | Wed 26,03,14<br>Mon 03,11,14<br>Thu 01,01,15<br>Mon 20,10,14<br>Fri 20,02,15<br>Mon 22,02,15<br>Mon 01,12,14<br>Mon 01,12,14<br>Mon 02,03,15   | Fri 30.12.16<br>Fri 30.10.15<br>Wed 30.12.15<br>Mon 22.02.16<br>Mon 22.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fri 30.12.16<br>Fri 37.02.15  | STIKK;NMFA;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]  |
| 260 days<br>260 days<br>351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days  | Mon 03.11.14<br>Thu 01.01.15<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 20.202.15<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15  | Fri 30.10.15<br>Wed 30.12.15<br>Mon 22.02.16<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fri 27.02.15  | Giz;Budget[5.000 €]<br>I<br>I<br>STIKK;MIFA;Budget[20.000 €]<br>I<br>STIKK;Giz;Budget[1.000 €]<br>I<br>STIKK;Giz;Budget[1.000 €]   |
| 260 days<br>351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days  | Thu 01.01.15<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Wed 30.12.15<br>Mon 22.02.16<br>Mon 20.10.14<br>Fn 20.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fn 27.02.15  | STIKK;NMFA;Budget[20.000 €]<br>I STIKK;GI2;Budget[1.000 €]<br>I STIKK;GI2;Budget[1.000 €]<br>I STIKK;GI2;Budget[1.000 €]   |
| 351 days<br>1 day<br>1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days  | Mon 20.10.14<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Mon 22.02.16<br>Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fri 27.02.15  | I<br>I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]   |
| 1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days   | Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Mon 20.10.14<br>Fri 20.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fri 27.02.15  | I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]<br>I STIKK;GIZ;Budget[1.000 €]  |
| 1 day<br>1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days   | Fri 20.02.15<br>Mon 22.02.16<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Fri 20.02.15<br>Mon 22.02.16<br>Fri 30.12.16<br>Fri 27.02.15  | I \$TIKK;GIZ;Budget[1.000 €]<br>I \$TIKK;GIZ;Budget[1.000 €]   |
| 1 day<br>545 days?<br>65 days<br>42 days<br>1 day?<br>415 days  | Mon 22.02.16<br>Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Mon 22.02.16<br>Fri 30.12.16<br>Fri 27.02.15  | I STIKK;GIZ;Budget[1.000 €]  |
| 545 days?<br>65 days<br>42 days<br>1 day?<br>415 days   | Mon 01.12.14<br>Mon 01.12.14<br>Mon 02.03.15   | Fri 30.12.16<br>Fri 27.02.15  |  |
| 65 days<br>42 days<br>1 day?<br>415 days  | Mon 01.12.14<br>Mon 02.03.15   | Fri 27.02.15  | STIKK: GIZ: Budgett5 000 £1  |
| 42 days<br>1 day?<br>415 days   | Mon 02.03.15   |   | STIKK-GIZ-Budgett5 000 F1  |
| 1 day?<br>415 days  |  | Tue 28.04.15  |  |
| 415 days  | Fri 15.05.15   |   | GIZ;NMFA;Budget[30.000 €]  |
|   |  | Fri 15.05.15  | I STIKK;Budget[1.000 €]  |
| 447 days?   | Mon 01.06.15   | Fri 30.12.16  | GIZ;NMFA;USAID;Budget  |
|   | Thu 01.01.15   | Fri 16.09.16  |  |
| 23 days   | Thu 01.01.15   | Mon 02.02.15  | STIKK;GIZ;Budget[2.000 €]  |
| 5 days?   | Wed 04.02.15   | Tue 10.02.15  |  |
| 443 days?   | Wed 07.01.15   | Fri 16.09.16  | IIII   |
| 1 day   | Wed 07.01.15   | Wed 07.01.15  | IS11KK;NMFA;GIZ;Budget[Z.000 €]  |
| 1 day   | Fri 15.05.15   | Fri 15.05.15  | I STIKK;NMFA;GIZ;Budget[1.000 €]   |
| 1 day   | Tue 15.09.15   | Tue 15.09.15  | I STIKK;NMFA;GIZ;Budget[1.000 €]   |
| 1 day   | Thu 07.01.16   | Thu 07.01.16  | I STIKK;NMFA;GIZ;Budget[1.000€]  |
| 1 day?  | Mon 16.05.16   | Mon 16.05.16  | I STIKK;NMFA;GIZ;Budget[1.000 €]   |
| 1 day?  | Fri 16.09.16   | Fn 16.09.16   | I STIKK;NMFA;GIZ;Budget[1.000 €]   |
| 71 days?  | Tue 09.06.15   | Tue 15.09.15  |  |
| 5 days  | Tue 09.06.15   | Mon 15.06.15  | 0 GIZ;Budget[2.000 €]  |
| 11 days   | Tue 16.06.15   | Tue 30.06.15  | GIZ;Budget[2.000 €]  |
| 1 day?  | Tue 15.09.15   | Tue 15.09.15  | I STIKK;Budget[1.000 €]  |
| 499 days?   | Tue 03.02.15   | Fri 30.12.16  |  |
| 15 days   | Tue 03.02.15   | Mon 23.02.15  | □_EU;GIZ;Budget[8.000 €]   |
| 1 day?  | Tue 15.09.15   | Tue 15.09.15  | I STIKK;Budget[1.000 €]  |
| 484 days  | Tue 24.02.15   | Fri 30.12.16  | EU;GIZ;Budget[225.000 €]   |
|   | Wed 01.10.14   | Tue 20.01.15  |  |
| 65 days   | Wed 01.10.14   | Tue 30.12.14  | EU;Budget[8.000 €]   |
|   | Tue 20.01.15   | Tue 20.01.15  | I STIKK;Budget[1.000 €]  |
|   | Mon 12.01.15   | Fri 30.12.16  |  |
| 6 days  | Mon 12.01.15   | Mon 19.01.15  | h_EU;MTI;Budget[8.000 €]   |
| 7 days  | Tue 20.01.15   | Wed 28.01.15  | G_EU;USAID;Budget[8.000 €]   |
|   |  |   | тткк;Budget[1.000 €]   |
|   |  | Fri 30.12.16  | EU;MTI;Budget(150.000 €)   |
|   | Fri 24.04.15   | Fri 30.12.16  | EU;USAID;Budget[1.000.0  |
|   |  |   |  |
|   |  | Fri 06.02.15  | NMFA;Budget[3.000 €]   |
|   |  | Fri 29.05.15  | MF;Budget  |
| 529 days  | Mon 01.12.14   | Thu 08.12.16  |  |
| 5 days  | Mon 01.12.14   | Fri 05.12.14  | STIKK;MZHE;MAP;Budget[2.000 €]   |
| and the second se   | Mon 08.12.14   | Thu 08.12.16  | I  |
| 1 day   | Mon 08.12.14   | Mon 08.12.14  | T STIKK;MZHE;Budget[3.000 €]   |
| and states |  | Tue 08.12.15  | I STIKK;MZHE;Budget[3.000 €]   |
| 1 day   | Thu 08.12.16   | Thu 08.12.16  | I STIKK;MZHE;Budget(3.000 4  |
| 349 days  | Tue 01.09.15   | Fri 30.12.16  |  |
|   |  |   |  |
| 5 days  | Tue 01.09.15   | Mon 07.09.15  | STIKK;GIZ;Budget[2.000 €]  |
|   | 1 day<br>1 day<br>1 day<br>1 day?<br>1 day?<br>1 day?<br>1 day?<br>1 day?<br>1 day?<br>1 day?<br>1 day?<br>4 days<br>1 day?<br>4 days<br>1 day?<br>4 days<br>1 day?<br>4 days<br>1 day?<br>4 days<br>5 days<br>1 day?<br>4 days<br>5 days<br>1 day?<br>4 days<br>5 days<br>7 days<br>7 days<br>7 days<br>7 days<br>5 days<br>7 day | 1 day         Wed 07.0115           1 day         Tru 15.0915           1 day         Tru 15.0915           1 day         Tru 15.0915           1 day         Tru 10.7.0116           1 day?         Tru 16.0916           1 day?         Tru 16.09.16           1 day?         Tru 6.09.0615           1 day?         Tru 6.03.02.15           1 day?         Tru 2.03.02.15           1 days         Tru 2.40.215           80 days         Wed 01.10.14           1 day?         Tru 2.00.115           515 days         Mon 12.01.15           6 days         Mon 12.01.15           6 days         Fri 2.00.115           1 day?         Tru 2.00.115           5 days         Mon 02.02.15           5 days         Mon 03.21.12 </td <td>1 day         Wed 07.0115         Wed 72.0115           1 day         Fri 15.0515         Fri 16.0515           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 10.0116         Thu 07.0116           1 day?         Fri 16.09.16         Fri 6.0516           1 day?         Tue 09.06.15         Mon 16.05.16           7 days?         Tue 09.06.15         Tue 15.09.15           1 days?         Tue 16.06.15         Tue 30.06.15           1 days?         Tue 16.06.15         Fri 30.12.16           1 days?         Tue 03.02.15         Fri 30.12.16           1 days         Tue 20.01.5         Fri 30.12.16           30 days?         Tue 20.01.5         Fri 30.12.16           30 days?         Wed 01.0.14         Tue 20.01.15           515 days         Wed 01.10.14         Tue 20.01.15           516 days         Wed 01.10.14         Tue 20.01.15           7 days         Tue 20.01.15         Fri 30.12.16           6 days         Wed 01.10.14         Tue 20.01.15           7 days         Tue 20.01.15         Fri 30.12.16     &lt;</td> | 1 day         Wed 07.0115         Wed 72.0115           1 day         Fri 15.0515         Fri 16.0515           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 15.0915         Tue 15.0915           1 day         Tue 10.0116         Thu 07.0116           1 day?         Fri 16.09.16         Fri 6.0516           1 day?         Tue 09.06.15         Mon 16.05.16           7 days?         Tue 09.06.15         Tue 15.09.15           1 days?         Tue 16.06.15         Tue 30.06.15           1 days?         Tue 16.06.15         Fri 30.12.16           1 days?         Tue 03.02.15         Fri 30.12.16           1 days         Tue 20.01.5         Fri 30.12.16           30 days?         Tue 20.01.5         Fri 30.12.16           30 days?         Wed 01.0.14         Tue 20.01.15           515 days         Wed 01.10.14         Tue 20.01.15           516 days         Wed 01.10.14         Tue 20.01.15           7 days         Tue 20.01.15         Fri 30.12.16           6 days         Wed 01.10.14         Tue 20.01.15           7 days         Tue 20.01.15         Fri 30.12.16     < |

#### 5.2.3. Timetable Strategic Pillar 3: Export Promotion



#### 5.2.4. Timetable Strategic Pillar 4: Domestic Market Development



# 5.2.5. Timetable Strategic Pillar 5: IT Education

|   |   | 0             |
|---|---|---------------|
| r IT education in Kosovo 458 days Wed 01.04.15 Fri 30.12.16 458 days Wed 01.04.15 Fri 30.12.16  | mplement continuous improvement system for IT education in Kosovo                   | 1             |
|   | 5.1.1 Establish joint competence group on IT education in Kosovo (see Task 6.1      | 2 1           |
|   | 5.1.2 Conduct evaluation and benchmarking of IT education curricula in Kosovo       | 3             |
| n curricula in Kosovo for: University 15 days Mon 11 05.15 Fn 29 05.15  | 5.1.3 Elaborate recommendations on IT education curricula in Kosovo for: Unive      | 4             |
|   | 5.1.4 Elaborate recommendations on required IT gualification profiles / compete     | 5 1           |
|   | 5.1.5 Conduct information event and press conference to present recomm              | 6 0           |
|   | 5.1.5 Conduct information event and press conference to present recomme             | 7 1           |
|   | 5.1.5 Conduct information event and press conference to present recomme             | 8             |
|   | 5.1.6 Integrate quality management and software testing (including ISTQB certil     | 9             |
|   |   |               |
|   | 5.1.7 Incorporate established certification programs into the curriculum (e.g. ITIL | 10            |
|   | 5.1.8 Develop and integrate applied courses and lectures by IT professionals (p     | 11            |
|   | mplement international academic cooperation and exchange program                    | 12            |
|   | 5.2.1 Develop international academic cooperation and exchange program for co        | 13            |
| MASHT;Budget  | 5.2.2 Implement international academic cooperation and exchange program for         | 14            |
| vrking abroad (online portal) 480 days Mon 02.03.15 Fri 30.12.16 MASHT;Budget   | 5.2.3 Establish network of Kosovo academics working abroad (online portal)          | 15 🔳          |
| ting Kosovo academics working 457 days Thu 02.04.15 Fri 30.12.16 MASHT;Budget   | 5.2.4 Implement "Brain Gain" program for motivating Kosovo academics working        | 16            |
| 512 days Thu 15.01.15 Fri 30.12.16  | ntroduce Student Placement Service (SPS)  | 17            |
|   | 5.3.1 Develop service concept for the Student Placement Service including serv      | 18            |
|   | 5.3.2 Implement Student Placement Service, including integration into STIKK jo      | 19            |
|   |   |               |
|   | 5.3.3 Develop and implement special Student Placement Service for Kososvo si        | 20            |
|   | 5.3.4 Design and implement infotainment and recrutainment events for IT             | 21 0          |
|   | 5.3.4 Design and implement infotainment and recrutainment events for IT             | 22            |
|   | 5.3.4 Design and implement infotainment and recrutainment events for IT             | 23            |
|   | 5.3.4 Design and implement infotainment and recrutainment events for IT             | 24            |
| 545 days Mon 01.12.14 Fri 30.12.16  | ntroduce Kosovo IT scholarship program  | 25            |
| ship program (application processing) 45 days Mon 01.12.14 Fri 30.01.15   | 5.4.1 Develop concept for the Kosovo IT scholarship program (application proce      | 26            |
|   | 5.4.2 Implement and manage the Kosovo IT scholarship program                        | 27            |
|   | ntroduce STIKK competence assessment standard for IT students                       | 28            |
|   | 5.5.1 Develop concept for STIKK competence assessment standard for IT stude         | 29 11         |
|   | 5.5.2 Implement and manage STIKK competence assessment standard for IT store        | 30            |
|   |   | 31            |
| 260 days Mon 04.01.16 Fri 30.12.16  | Establish university ranking (IT)   |               |
|   | 5.6.1 Develop concept for university ranking (methodology, evaluation criteria, e   | 32            |
| 240 days Mon 01.02.16 Fri 30.12.16 Stirkk;Budget[6  | 5.6.2 Conduct university ranking (every 2 years)                                    | 33            |
| 316 days Mon 02.03.15 Mon 16.05.16  | ntroduce National IT Olympics   | 34            |
| format, program, organization, 11 days Mon 02.03.15 Mon 16.03.15 G STIKK;Budget(3.000 €)  | 5.7.1 Develop concept for National IT Olympics (format, program, organization,      | 35            |
| nual basis 262 days Fri 15.05.15 Mon 16.05.16 T T   | 5.7.2 Organize National IT Olympics on an annual basis                              | 36 0          |
| annual basis 1 1 day Fri 15.05.15 Fri 15.05.15 [STIKK;Budget[1,500 €]   | 5.7.2 Organize National IT Olympics on an annual basis 1                            | 37            |
|   | 5.7.2 Organize National IT Olympics on an annual basis 2                            | 38            |
|   | Promoting part-time and distance learning IT education                              | 39            |
|   | 5.8.1 Conduct needs assessment for part-time and distance learning IT education     | 40            |
|   | 5.8.2 Develop curricula for part-time and distance learning IT education            | 41            |
|   |   | 42            |
|   | 5.8.3 Implement part-time and distance learning IT education programs               |               |
|   | Establish Kosovo Institute of Digital Technology (PPP)                              | 43            |
|   | 5.9.1 Elaborate concept for the KIDT including functions, organizational structur   | 44            |
| 415 days Mon 01.06.15 Fri 30.12.16 MASHT;Budget(  | 5.9.2 Establish and manage the KIDT   | 45            |
|   | 5.9.3 Establish partnerships with relevant universities, research institutes and or | 46            |
| dary education 415 days Mon 01.06.15 Fri 30.12.16   | Promote MINT subjects in primary and secondary education                            | 47            |
| T subjects in primary and second 22 days Mon 01.06.15 Tue 30.06.15  | 5.10.1 Develop proposal on how to promote MINT subjects in primary and second       | 48            |
|   | 5.10.2 Revise curricula and implement proposal for promoting MINT subjects in       | 49            |
|   | 5.10.3 Develop and implement further education program (teacher-training) in te     | 50            |
| 202 days the foot a finite line of the finite line | Promote university alliance programs  | 51            |
|   | 5.11.1 Identify suitable alliance partners and areas of cooperation (multinational  | 52            |
|   |   | 52            |
|   | 5.11.2 Establish and implement university alliance programs                         |               |
| 480 days Mon 02.03.15 Fri 30.12.16  | Introduce vocational education for IT   | 54            |
|   | 5.12.1 Develop implementation concept and curricula for vocational IT education     | 55            |
| sovo 415 days Mon 01.06.15 Fri 30.12.16 UNIV;Budget[30  | 5.12.2 Establish vocational education for IT in Kosovo                              | 56            |
| sovo 415 days Mon 01.06.15 Fri 30.12.16 Construction of the second   | 5.12.2 Establish vocational education for IT in Kosovo                              | 56            |
|   | 5.12.2 Establish vocational education for IT in Kosovo                              | Project: MSPr |

# 5.2.6. Timetable Strategic Pillar 6: IT Clusters & Collaboration

| 0     | Task Name  | Priority | Duration | Start           | Finish       | Half 1, 2014 Half 2, 2014 Half   | 1, 2015 Half 2, 2015 Half 1, 2016 Half 2, 2016 H<br>M A M J J A S O N D J F M A M J J A S O N D J  | Half 1, 2017 Hal     |
|-------|--|----------|----------|-----------------|--------------|--|--|----------------------|
| 1     | 6.1 Implement capacity building in IT Cluster Management   |          | 35 days  | Mon 02.11.15    | Fri 18.12.15 |  |  |                      |
|       | 6.1.1 Elaborate training material and case studies on IT cluster management  | 1        | 21 days  | Mon 02.11.15    | Mon 30.11.15 |  | GIZ;Budget[€6.000]   |                      |
| 3 11  | 6.1.2 Conduct training workshop (3 days) on IT cluster management for selected stakeholders  | 1        | 5 days   | Mon 07.12.15    | Fri 11.12.15 |  | GIZ;Budget[€4.000]   |                      |
| 4     | 6.1.3 Provide cluster management manual and toolbox  |          | 5 days   | Mon 14.12.15    | Fri 18.12.15 |  | GIZ;Budget   |                      |
| 5     | 6.2 Establish STIKK as an IT Cluster of Excellence   | 1        | 500 days | Mon 02.02.15    | Fri 30.12.16 |  |  |                      |
| 3     | 6.2.1 Develop cluster business plan for STIKK (IT Cluster of Excellence)   |          | 31 days  | Mon 02.02.15    | Mon 16.03.15 |  | STIKK;GIZ;Budget[€6.000]   |                      |
| 100   | 6.2.2 Further develop organizational structure and process model of STIKK  | 1        | 65 days  | Tue 17.03.15    | Mon 15.06.15 |  | STIKK;GIZ;Budget[€8.000]   |                      |
| 8     | 6.2.3 Develop and implement STIKK service portfolio (including integration of existing services)   |          | 76 days  | Tue 17.03.15    | Tue 30.06.15 |  | STIKK;GIZ;Budget[€15.000]  |                      |
| 9     | 6.2.4 Introduces a collaborative software application / groupware or ECM application (e.g. Shar  |          | 22 days  | Tue 16.06.15    | Wed 15.07.15 |  | 5TIKK;Budget[€6.000]   |                      |
| 10 53 | 6.2.5 Introduce QM system and support certification of STIKK according to ISO 9001 or a comp   |          | 404 days | Tue 16.06.15    | Fri 30.12.16 |  |  | STIKK;Budget[€20     |
| 11    | 6.2.6 Support STIKK in enlarging its membership base   |          | 393 days | Mon 02.02.15    | Wed 03.08.16 |  | GIZ;Budget[€3.   |                      |
| 12    | 6.2.7 Integrate universities into STIKK as associated members  | -        | 66 days  | Tue 17.03.15    | Tue 16.06.15 |  | STIKK;Budget[€1.000]   |                      |
| 13    | 6.3 Establish international advisory board within STIKK ("Brand Ambassadors")  |          | 496 days | Mon 01.12.14    | Mon 24.10.16 |  | C anniagateriosi   |                      |
| 14 5  | 6.3.1 Develop concept and selection criteria for the international advisory board  | -        | 5 days   | Mon 01.12.14    | Fri 05.12.14 | A STIKK  | ;Budget[€1.000]  |                      |
| 15    | 6.3.2 Integrate international advisory board into statute and organizational structure of STIKK.   | _        | 5 days   | Mon 08.12.14    | Fri 12.12.14 |  | K;Budget[E1.000]   |                      |
| 16    | 6.3.3 Identify and appoint members of the international advisory board   |          | 273 days | Mon 15.12.14    | Wed 30,12,15 | 2011   | STIKK;Budget[€4.000]   |                      |
|       | 6.3.4 Organize annual meetings / reunions of the international advisory board  |          | 262 days | Fri 23.10.15    | Mon 24.10.16 |  |  |                      |
| 17 0  | 6.3.4 Organize annual meetings / reunions of the international advisory board<br>6.3.4 Organize annual meetings / reunions of the international advisory board 2 |          | 1 day    | Fri 23.10.15    | Fri 23.10.15 |  | I I<br>⊺STIKK;Budget[€6.000]   |                      |
| 19    |  |          |          | Mon 24.10.16    |              |  | The second s | Budgetter 0000       |
| 20    | 6.3.4 Organize annual meetings / reunions of the international advisory board 3  |          | 1 day    |                 | Mon 24.10.16 |  | I STIKK;   | Budget[€6.000]       |
|       | 6.4 Establish specialized sub-clusters for targeted marketing and positioning  |          | 294 days | Fri 01.05.15    | Wed 15.06.16 |  | CIT. Dude Mrc2 0001  |                      |
|       | 6.4.1 Identify focus topics (e.g. software testing) for specialized sub-clusters   |          | 21 days  | Fri 01.05.15    | Fri 29.05.15 |  | GIZ;Budget[€3.000]   |                      |
| 22    | 6.4.2 Elaborate organizational concept for specialized sub-clusters  |          | 22 days  | Mon 01.06.15    | Tue 30.06.15 |  | GIZ;Budget[€3.000]   |                      |
| 23    | 6.4.3 Establish specialized sub-clusters   |          | 66 days  | Wed 01.07.15    | Wed 30.09.15 |  | STIKK;Budget[€5.000]   | 1.1.1                |
| 24    | 6.4.4 Develop and implement action plans for specialized sub-clusters  |          | 185 days | Thu 01.10.15    | Wed 15.06.16 |  | STIKK;Budget[€12.0   | 000]                 |
| 25    | 6.5 Implement cluster promotion program  |          | 173 days | Mon 02.02.15    | Wed 30.09.15 |  |  |                      |
| 26    | 6.5.1 Develop cluster promotion program  |          | 20 days  | Mon 02.02.15    | Fri 27.02.15 |  | MZHE;EU;Budget[€3.000]   |                      |
| 27    | 6.5.2 Implement cluster promotion program  | 1        | 65 days  | Mon 02.03.15    | Fri 29.05.15 |  | MZHE;Budget[€30.000]   |                      |
| 28    | 6.5.3 Adapt tender procedures to promote clusters / consortia  |          | 22 days  | Tue 01.09.15    | Wed 30.09.15 |  | KRPP;Budget[€2.000]  |                      |
| 29    | 6.6 Establish job exchange within STIKK website  |          | 110 days | Mon 02.03.15    | Fri 31.07.15 |  | Contraction of the second s  |                      |
| 30    | 6.6.1 Elaborate concept and requirements specification for the STIKK job exchange  |          | 15 days  | Mon 02.03.15    | Fri 20.03.15 |  | STIKK;Budget[€5.000]   |                      |
| 31    | 6.6.2 Conduct tender and implement the STIKK job exchange  | 1        | 95 days  | Mon 23.03.15    | Fri 31.07.15 |  | STIKK;Budget[€12.000]  |                      |
| 32    | 6.7 Support the OSS community  |          | 527 days | Fri 10.10.14    | Fri 14.10.16 | Q  | 4  |                      |
| 33 O  | 6.7.1 Support the organization and implementation of the Software Freedom Kosova Cor   |          | 527 days | Fri 10.10.14    | Fri 14.10.16 | 1  | I. I.  |                      |
| 34    | 6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf  |          | 2 days   | Fri 10.10.14    | Sun 12.10.14 | I EU;USAID;  | Budget[€3.000]   |                      |
| 35 📻  | 6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf  |          | 2 days   | Tue 13.10.15    | Wed 14.10.15 |  | I EU;USAID;Budget[€3.000]  |                      |
| 36    | 6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf  |          | 2 days   | Thu 13.10.16    | Fri 14.10.16 |  |  | ID;Budget[€3.000]    |
| 37    | 6.7.2 Promote cooperation between FLOSSK and international OSS communities   | 1        | 303 days | Mon 03.11.14    | Wed 30.12.15 | (  | NMFA;GIZ;Budget[€1.000]  |                      |
| 38    | 6.8 Establish joint competence center on EU projects   | 1        | 349 days | Tue 01.09.15    | Fri 30.12.16 |  | ų  |                      |
| 39    | 6.8.1 Develop concept for the joint competence center on EU projects including services portfo   |          | 9 days   | Tue 01.09.15    | Fri 11.09.15 |  | STIKK;Budget[€3.000]   |                      |
| 40    | 6.8.2 Implement and operate joint competence center on EU projects   |          | 340 days | Mon 14.09.15    | Fri 30.12.16 |  | 2  | STIKK;Budget[€9.0    |
| 41    | 6.9 Promote International cluster linkage  |          | 720 days | Tue 01.04.14    | Fri 30.12.16 | -  |  |                      |
| 42    | 6.9.1 Identify suitable cooperation partners (IT clusters and association) and identify areas of co  |          | 198 days | Tue 01.04.14    | Wed 31.12.14 | GIZ  | Budget[€2.000]   |                      |
| 43 📊  | 6.9.2 Establish cooperation with IT clusters and associations  |          | 698 days | Thu 01.05.14    | Fri 30.12.16 | C  |  | STIKK;GIZ;Budget     |
| 44    | 6.10 Establish special competence groups for strategic IT topics ("Triple Helix")  |          | 436 days | Fri 01.05.15    | Fri 30.12.16 |  | V  | (                    |
| 45 11 | 6.10.1 Develop concept for the SCGs including goals, structure and procedures  |          | 11 days  | Fri 01.05.15    | Fri 15.05.15 |  | GIZ;Budget[€1.000]   |                      |
| 46    | 6.10.2 Define the topics for the SCGs  |          | 15 days  | Mon 18.05.15    | Fri 05.06.15 |  | STIKK;Budget[€2.000]   |                      |
| 47    | 6.10.3 Establish and manage the SCGs   |          | 410 days | Mon 08.06.15    | Fri 30.12.16 |  |  | STIKK;Budget[€9.     |
| 48    | 6.10.4 Organize participation of international experts in SCG meetings (presentations, lectures,   |          | 326 days | Fri 02.10.15    | Fri 30.12.16 |  |  | EU;Budget[€6.000]    |
| 49    | 6.10.5 Organize international linkage to similar competence groups or networks   |          | 305 days | Mon 02.11.15    | Fri 30.12.16 | The second secon |  | SIZ;NMFA;Budget      |
|       | ontoto organizo international intelage to ontotal composition of outpool internation   |          | oco days | mon or interest |              |  |  | one, this is, Budget |

# 5.2.7. Timetable Strategic Pillar 7: Entrepreneurship

|     | 0   | Task Name  | Priority | Duration  | Start        | Finish       | 2014 2015 2016 2017<br>Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 04 Q1 Q2 Q3 4 |
|-----|-----|--|----------|-----------|--------------|--------------|---|
| 1   | -   | 7.1 Establish mentoring committee at STIKK / ICK   | 3        | 327 days  | Thu 01.10.15 | Fri 30.12.16 |   |
| 2   |     | 7.1.1 Elaborate concept for the mentoring committee (members, procedures, etc.)  | 1        | 5 days    | Thu 01.10.15 | Wed 07.10.15 | ₽ <sub>\</sub> STIKK;Budget[1.000 €]  |
| 3   |     | 7.1.2 Establish mentoring committee at STIKK / ICK and conduct coachings for start-ups   | 1        | 7 days    | Thu 08.10.15 | Fri 16.10.15 | KCK;Budget[3.000 €]   |
| 4   |     | 7.1.3 Organize monthly entrepreneurship dinners with the members of the mentoring committee  |          | 315 days  | Mon 19.10.15 | Fri 30.12.16 | [CK;Budget[8.000 €]   |
| 5   |     | 7.2 Support the establishment of the Kosovo Business Angels and VC Association   | 1        | 555 days  | Mon 17.11.14 | Fri 30.12.16 |   |
| 6   | 10  | 7.2.1 Elaborate a proposal for the establishment of a Kosovo Business Angels and VC Associ   | 1        | 13 days   | Mon 17.11.14 | Wed 03.12.14 | USAID;ICK;Budget[5.000 €]   |
| 7   |     | 7.2.2 Mobilize potential partners and members for the association  | 1        | 20 days   | Thu 04.12.14 | Wed 31.12.14 | LISAID;Budget[3.000 €]  |
| 8   |     | 7.2.3 Support the establishment of the Kosovo Business Angels and VC Association (technica   | 1        | 107 days  | Thu 01.01.15 | Fri 29.05.15 | USAID;Budget[8.000 €]   |
| 9   |     | 7.2.4 Create international linkage for the Kosovo Business Angels and VC Association (particul   | 1        | 415 days  | Mon 01.06.15 | Fri 30.12.16 | USAID;Budget[8.000 €]   |
| 10  |     | 7.3 Organize B2B match-making events between investors and IT entrepreneurs on a nation  | 1        | 420 days  | Mon 02.03.15 | Fri 07.10.16 |   |
| 11  | 11  | 7.3.1 Provide preparatory trainings for IT start-ups / entrepreneurs participating in match-maki   | 1        | 44 days   | Mon 02.03.15 | Thu 30.04.15 | Cevelopment Banks;Budget[12.000 €]  |
|     | 0   | 7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene   | 1        | 354 days  | Tue 02.06.15 | Fri 07.10.16 | 1 1 1   |
|     | -   | 7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene   | 1        | 2 days    | Tue 02.06.15 | Wed 03.06.15 | I Development Banks;Budget[3.000 €]   |
|     |     | 7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene   | 1        | 2 days    | Wed 01.06.16 | Thu 02.06.16 | [ Development Banks;Budget[3.000 €]   |
|     | 1   | 7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene   |          | 2 days    | Thu 06.10.16 | Fri 07.10.16 | [ Development Banks;Budget[3.00   |
| 16  | _   | 7.4 Organize international VC4IT conference in Kosovo  |          | 143 days  | Thu 15.10.15 | Mon 02.05.16 |   |
| 17  | -   | 7.4.1 Develop concept for the VC4IT conference (program, financing, participants, logistics, et  |          | 17 days   | Thu 15.10.15 | Fri 06.11.15 | G,STIKK;Budget[3.000 €]   |
|     |     | 7.4.2 Organize international VC4IT conference in Kosovo  | 1        | 126 days  | Mon 09.11.15 | Mon 02.05.16 | STIKK;Budget[20.000 €]  |
| 19  |     | 7.5 Introduce specialized consulting & coaching service for IT entrepreneurs and start-ups   | 1        | 458 days? | Wed 01.04.15 | Fri 30.12.16 |   |
|     | -   | 7.5.1 Conduct needs assessment with ICK and its member companies (incubator) (e.g. through   |          | 13 days   | Wed 01.04.15 | Fri 17.04.15 | LICK / STIKK;Budget[3.000 €]  |
| 21  | -   | 7.5.2 Develop concept for the specialized consulting & coaching service for IT entrepreneurs   |          | 23 days   | Mon 20 04 15 | Wed 20.05.15 |   |
| 22  |     | 7.5.3 Develop financial support scheme for the specialized consulting services for entreprene  |          | 7 days    | Thu 21.05.15 | Fri 29.05.15 | -NMFA; Budget[2.000 €]  |
| 1.0 | H   | 7.5.4 Establish pool of suitable consultants and coaches (see Task 7.1 Coaching committee)   |          | 52 days   | Thu 21.05.15 | Fri 31.07.15 | S∏KK;Budget[1.000 €]  |
|     | 11  | 7.5.5 Conduct information events on specialized consulting services for entrepreneurs and sta  |          | 1 day?    | Tue 01.09.15 | Tue 01.09.15 | TICK / STIKK;Budget[1.000 €]  |
| 1.1 | 1   | 7.5.6 Implement specialized consulting service for entrepreneurs and start-ups   |          | 348 days  | Wed 02.09.15 | Fri 30.12.16 | NMFA;Budget[40.000 €]   |
| 26  |     | 7.6 Establish IT Entrepreneurship Award ("DigitalOne")   |          | 403 days  | Fri 01.05.15 | Tue 15.11.16 |   |
|     | -   | 7.6.1 Define selection criteria for the IT Entrepreneurship Award  |          | 3 days    | Fri 01.05.15 | Tue 05.05.15 | ] STIKK;Budget[1.000 €]   |
|     |     | 7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony   |          | 266 days  | Tue 10.11.15 | Tue 15.11.16 | y sink, budget, bus et  |
|     | 0   | 7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 1   |          | 3 days    | Tue 10.11.15 | Thu 12.11.15 | 1<br>] STIKK;Budget[3.000 €]  |
|     |     | 7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 1<br>7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 2 | _        | 3 days    | Fri 11.11.16 | Tue 15.11.16 | [ STIKK,Budget[3.000 €]   |
| 31  | 11. | 7.0.2 Establish high-tech start-up fund (PPP)  |          | 415 days  | Mon 01.06.15 | Fri 30.12.16 | 1 STICK, Budgal Store 1   |
| 1.1 | -   | 7.7.1 Elaborate business plan and feasibility study for the high-tech start-up fund  |          | 77 days   | Mon 01.06.15 | Tue 15.09.15 | MZHE;Budget[30.000 €]   |
| 33  |     |  |          |           | Wed 16.09.15 | Fri 30.12.16 |   |
| 34  |     | 7.7.2 Establish and operate the high-tech start-up fund  |          | 338 days  |              |              | MZHE;Budget[5.000.000 €   |
|     |     | 7.8 Introduce IT entrepreneurship@school program   |          | 327 days  | Thu 01.10.15 | Fri 30.12.16 |   |
|     |     | 7.8.1 Develop IT entrepreneurship@school program including business plan competition, exc  |          | 22 days   | Thu 01.10.15 | Fri 30.10.15 | STIKK / ICK;Budget[3.000 €]   |
| 36  | _   | 7.8.2 Implement IT entrepreneurship@school program   |          | 305 days  | Mon 02.11.15 | Fri 30.12.16 | MASHT;Budget[6.000 €]   |
| 37  | -   | 7.9 Establish International linkage and sponsorship for ICK  |          | 609 days  | Tue 02.09.14 | Fri 30.12.16 |   |
|     | H.  | 7.9.1 Identify suitable cooperation partners for ICK in strategic export markets as well as in the   |          | 21 days   | Tue 02.09.14 | Tue 30.09.14 | SINFA;GIZ;Budget[2.000 €]   |
| 39  |     | 7.9.2 Establish international linkage for ICK with incubators and innovation centers abroad  |          | 588 days  | Wed 01.10.14 | Fri 30.12.16 | [CK;Budget[5.000 €]   |
|     | #1  | 7.9.3 Develop and implement international sponsorship program for ICK  | 1        | 450 days  | Mon 13.04,15 | Fri 30.12.16 | [] ICK;Budget[5.000 €]  |
| 41  |     | 7.10 Promote university-based IT start-ups   | 1        | 415 days  | Mon 01.06,15 | Fri 30.12.16 |   |
|     | 111 | 7.10.1 Develop program for promoting university-based IT start-ups   |          | 22 days   | Mon 01.06.15 | Tue 30.06.15 | -NMFA;GIZ;Budget[20.000 €]  |
| 43  | 16  | 7.10.2 Implement program for promoting university-based IT start-ups   |          | 349 days  | Tue 01.09,15 | Fri 30.12.16 | MTI;Budget[1.000.000 €]   |

# 5.2.8. Timetable Strategic Pillar 8: Innovation & Applied R&D

| on events on Horizon 2020 program (IT)<br>imments on Horizon 2020 (CT facus) and elaborate information material for the Kosovo IT industry<br>least 3 Information events on Horizon 2020 program for the Kosovo IT industry 1<br>at a least 3 information events on Horizon 2020 program for the Kosovo IT industry 2<br>at a least 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 6 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attaleast 6 information events on Horizon 2020 program for the Kosovo IT industry 3<br>information between the capitalization of patents, licences and development costs<br>trives for investments into innovation and R&D<br>national best practices and adaptivestments into innovation and R&D<br>involution system for the Kosovo IT industry<br>II implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and informent at least 3 trainings on open innovation (methods, tools, processes, bet<br>and informent at least 3 trainings on open innovation (methods, tools, processes, bet<br>and informent at least 3 trainings on open innovation (methods, tools, processes, bet) |  | 533 days<br>11 days<br>523 days<br>1 day<br>1 day<br>1 day<br>1 day<br>131 days<br>43 days<br>88 days<br>131 days<br>88 days<br>455 days   | Thu 13.03.14<br>Thu 13.03.14<br>Thu 27.03.14<br>Thu 27.03.15<br>Fri 27.03.15<br>Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15<br>Fri 01.05.15  | Mon 28.03.16<br>Thu 27.03.14<br>Mon 28.03.16<br>Thu 27.03.14<br>Fri 27.03.15<br>Mon 28.03.16<br>Fri 15.07.16<br>Fri 15.07.16<br>Fri 15.07.16<br>Fri 30.10.15<br>Tue 30.06.15   | In a MarAor a Jun Jul u e Oct o  | I<br>I STIKK;Budget(2.000 d   | q<br>Į такк<br>"М.:Вид   | 001 [OF 3, 201] [OF 4, 201] [OF 1, 201] [OF 2, 201] [OF 3<br>Juni Jul u ] e   Oct[ o ] e Jan   e MarApri a Juni Jul 1<br>Budget[2.000 C]<br>get(0.000 C]<br>WF;Budget[3.000 C]  |
|---|--|--|---|--|--|---|--|---|
| least 3 information events on Horizon 2020 program for the Kosovo IT industry<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 1<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 2<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attline of patents, licences and development costs (IFR6)<br>national best practices and administra and leaborate proposal for an amendment on intro<br>thread of the capitalization of patents, licences and development costs<br>intrives for investments into innovation and R&D<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>e on introducing tax incentives for investments into innovation and R&D<br>novation system for the Kosovo IT industry<br>and implement at least 3 trainings on open innovation (methods, tools, processes, be<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes).  |  | 523 days<br>1 day<br>1 day<br>1 day<br>1 day<br>131 days<br>43 days<br>88 days<br>131 days<br>43 days<br>88 days   | Thu 27.03.14<br>Thu 27.03.14<br>Fri 27.03.15<br>Sun 27.03.16<br>Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15  | Mon 28.03.16<br>Thu 27.03.14<br>Fri 27.03.15<br>Mon 28.03.16<br>Fri 15.07.16<br>Tue 15.03.16<br>Fri 15.07.16<br>Fri 15.07.16<br>Fri 30.10.15   | I  | I STIKK;Budget(2.000  | I STIKK  | get(6.000 ¢)  |
| It at least 3 information events on Horizon 2020 program for the Kosovo IT industry 1<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 2<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>atland of patents, licences and development costs (IFR8)<br>national best practices and atlandaria and elaborate proposal for an amendment on intro<br>diment on introducing the capitalization of patents, licences and development costs<br>intrives for investments into innovation and R&D<br>national best practices and adaptorate proposal for an decree to introduce tax incentives<br>to on introducing tax incentives for investments into innovation and R&D<br>isovation system for the Kosovo IT industry<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes).   |  | 1 day<br>1 day<br>1 day<br>131 days<br>43 days<br>88 days<br>131 days<br>43 days<br>43 days<br>88 days   | Thu 27.03.14<br>Fri 27.03.15<br>Sun 27.03.16<br>Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Thu 27.03.14<br>Fri 27.03.15<br>Mon 28.03.16<br>Fri 15.07.16<br>Tue 15.03.16<br>Fri 15.07.16<br>Fri 15.07.16   | I<br>TSTKK;Budget(2.000 Q  | I STIKK;Budget(2.000  | I STIKK  | get(6.000 ¢)  |
| It at least 3 information events on Horizon 2020 program for the Kosovo IT industry 2<br>at at least 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attion of patents, licences and development costs (IFRS)<br>national best practices and standards and elaborate proposal for an amenidment on into<br>imment on introducing the capitalization of patents, licences and development costs<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>on introducing tax intentives for investments into innovation and R&D<br>novation system for the Kosovo IT industry<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  | 1 day<br>1 day<br>131 days<br>43 days<br>88 days<br>131 days<br>43 days<br>88 days   | Fri 27.03.15<br>Sun 27.03.16<br>Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Fri 27.03.15<br>Mon 28.03.16<br>Fri 15.07.16<br>Tue 15.03.16<br>Fri 15.07.16<br>Fri 30.10.15   | ייש און איז  | -   | I STIKK  | get(6.000 ¢)  |
| It at least 3 information events on Horizon 2020 program for the Kosovo IT industry 3<br>attion of patents, licences and development costs (IFR8)<br>mational best practices and dandards and eliaborate proposal for an amendment on intro<br>themet on introducing the capitalization of patents, licences and development costs<br>willves for Investments into innovation and R&D<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>on introducing tax incentives for investments into innovation and R&D<br>novation system for the Kosovo IT industry<br>unplement at least 3 trainings on open innovation (methods, tools, processes, bet<br>and implement at least 3 trainings on open innovation (methods, tools, processes, bet  |  | 1 day<br>131 days<br>43 days<br>88 days<br>131 days<br>43 days<br>88 days  | Sun 27.03.16<br>Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Mon 28.03.16<br>Fri 15.07.16<br>Tue 15.03.16<br>Fri 15.07.16<br>Fri 30.10.15   |  | -   | I STIKK  | get(6.000 ¢)  |
| ation of patents, licences and development costs (JRR5)<br>national best practices and standards and elaborate proposal for an amendment on intro<br>iment on introducing the capitalization of patents, licences and development costs<br>ratives for investments into innovation and R&D<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>so in introducing tax incentives for investments into innovation and R&D<br>ovaition system for the Kosovo T industry<br>I implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best   |  | 131 days<br>43 days<br>88 days<br>131 days<br>43 days<br>88 days   | Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Fri 15.07.16<br>Tue 15.03.16<br>Fri 15.07.16<br>Fri 30.10.15   |  |   | MF;Bud   | get(6.000 ¢]  |
| ation of patents, licences and development costs (JRR5)<br>national best practices and standards and elaborate proposal for an amendment on intro<br>iment on introducing the capitalization of patents, licences and development costs<br>ratives for investments into innovation and R&D<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>so in introducing tax incentives for investments into innovation and R&D<br>ovaition system for the Kosovo T industry<br>I implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best   |  | 43 days<br>88 days<br>131 days<br>43 days<br>88 days   | Fri 15.01.16<br>Fri 15.01.16<br>Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Tue 15.03.16<br>Fri 15.07.16<br>Fri 30.10.15   |  |   | MF;Bud   | get(6.000 ¢]  |
| national best practices and standards and elaborate proposal for an amendment on intro<br>timent on introducing the capitalization of patents, licences and development costs<br>tritives for investments into innovation and R&D<br>mational best practices and elaborate proposal for an decree to introduce tax incentives<br>so on introducing tax incentives for investments into innovation and R&D<br>ovaition system for the Kosovo IT industry<br>Implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best   |  | 88 days<br>131 days<br>43 days<br>88 days  | Wed 16.03.16<br>Fri 01.05.15<br>Fri 01.05.15  | Fri 15.07.16<br>Fri 30.10.15   |  |   | -  |   |
| Imment on introducing the capitalization of patents, licences and development costs<br>ntives for investments into innovation and R&D<br>national best practices and elaborate proposal for an decree to introduce tax incentives<br>e on introducing tax incentives for investments into innovation and R&D<br>iovation system for the Kosovo IT industry<br>I implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  | 88 days<br>131 days<br>43 days<br>88 days  | Fri 01.05.15<br>Fri 01.05.15  | Fri 30.10.15   |  | φ   | -  |   |
| national best practices and elaborate proposal for an decree to introduce tax incentives<br>s on introducing tax incentives for investments into innovation and R&D<br>novation system for the Kosovo IT industry<br>I Implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best   |  | 43 days<br>88 days   | Fri 01.05.15  |  |  | -   | -  |   |
| o on introducing tax incentives for investments into innovation and R&D<br>novation system for the Kosovo IT industry<br>I Implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best   |  | 88 days  |   | Tue 30.06.15   |  |   | Contraction of the second s  |   |
| novation system for the Kosovo IT industry<br>I Implement at least 3 trainings on open innovation (methods, tools, processes, be<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  |  | Wed 01.07.15  | and the second   |  | MF:Budge  | et[6.000 €]  |   |
| novation system for the Kosovo IT industry<br>I Implement at least 3 trainings on open innovation (methods, tools, processes, be<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  |  |   | Fri 30.10.15   |  |   | MF:Budget[3.000 C]   |   |
| Implement at least 3 trainings on open innovation (methods, tools, processes, be<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  |  | Mon 02.02.15  | Fri 28.10.16   |  |   |  |   |
| and implement at least 3 trainings on open innovation (methods, tools, processes, best  |  | 263 days   | Tue 01.09.15  | Thu 01.09.16   |  | -   |  |   |
|   |  | 19 days  | Tue 01.09.15  | Fri 25.09.15   |  |   | MASHT;Budget[3.000 €]  |   |
|   |  | 1 day  | Mon 28.09.15  | Mon 28.09.15   |  |   | MASHT;Budget[3.000 €]  |   |
| and implement at least 3 trainings on open innovation (methods, tools, processes, best  | -  | 1 day  | Fri 01.04.16  | Fri 01.04.16   |  | 1   |  | et[3.000 6];MASHT   |
| and implement at least 3 trainings on open innovation (methods, tools, processes, best<br>and implement at least 3 trainings on open innovation (methods, tools, processes, best  | - I  | 1 day  | Thu 01.09.16  | Thu 01.09.16   |  |   | [ Budge  | T MASH T;Budget[3.000 C]  |
|   | -  |  |   |  |  | Budgettis pot c.cu  |  | T www.u.t.brodistly.oon.cl  |
|   |  |  |   |  |  | Budget[15.000 4];EU   |  |   |
|   | 1000   | 2020-00-0  |   | and a second second  |  |   | 1  | I   |
| and the second   |  |  |   |  |  | 0   | I En Bradedaronn el  |   |
|   |  |  |   |  |  |   |  | I EU;Budget[3.000 q   |
| The first second s  |  |  |   |  |  |   | 1  | 0   |
|   |  |  |   |  |  |   | STIKK;Budget[5.000 C]  |   |
|   |  |  |   |  |  |   |  | STIKK;Budget[5.000 C]   |
| The second se   |  |  |   |  |  |   | Contraction of the second  |   |
|   |  |  |   | and the second s |  |   | EU;Budget[8.000 C]   |   |
| ormation events on the IT innovation and R&D program (at least 3 information eve  |  | 263 days?  | Wed 02.12.15  | Fri 02.12.16   |  |   | I  | T   |
|   |  | 1 day  | Wed 02.12.15  | Wed 02.12.15   |  |   | I MASHT;Budget[1.00  | 0 C]  |
| t information events on the IT innovation and R&D program (at least 3 information events  |  | 1 day?   | Mon 02.05.16  | Mon 02.05.16   |  |   | IM   | ASHT;Budget[1.000 €]  |
| information events on the IT innovation and R&D program (at least 3 information events  |  | 1 day  | Fri 02.12,16  | Fri 02.12.16   |  |   |  | I MASHT;Budget[1.000 €]   |
| e IT innovation and R&D program   |  | 251 days   | Fri 15.01.16  | Fri 30.12.16   |  |   | C  | MASHT;EU;Budget[200.0   |
| ence Centers for applied R&D in strategic IT topics   | 1  | 393 days   | Wed 01.07.15  | Fri 30.12.16   |  |   |  |   |
| oosal for the Competence Centers for applied R&D in strategic IT topics (business plan)   |  | 44 days  | Wed 01.07.15  | Mon 31.08.15   |  | EU  | J;Budget[15.000 €]   |   |
| rch focus / topics for the Competence Centers   |  | 44 days  | Tue 01.09.15  | Fri 30.10.15   |  | <b>*</b>  | MASHT;STIKK;Budget[5   | .000 E]   |
| I manage the Competence Centers for applied R&D including Living Labs   |  | 305 days   | Mon 02.11.15  | Fri 30.12.16   |  |   | *  | MASHT;Budget[250.000  |
| emational linkage to similar research institutions to ensure exchange of experience and t   |  | 348 days   | Wed 02.09.15  | Fri 30.12.16   |  | 2   |  | EU;Budget[5.000 C]  |
| oundtables  |  | 416 days   | Wed 01.04.15  | Wed 02.11.16   |  |   |  |   |
| cept for vendor roundtables including selection of participants and IT topics   | -  | 5 days   | Wed 01.04.15  | Tue 07.04.15   |  | STIKK;Budget[1.000  | pq   |   |
| ndor roundtables  |  | 378 days   | Mon 25.05.15  | Wed 02.11.16   |  | I   | 1  | I   |
| vendor roundtables 1  |  | 1 day  | Mon 25.05.15  | Mon 25.05.15   |  | I STIKK;Budget  | (750 C]  |   |
| vendor roundtables 2  |  | 1 day  | Wed 25.05.16  | Wed 25.05.16   |  |   | I  | STIKK;Budget[750 €]   |
|   |  |  |   |  |  |   |  |   |
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|    | 0   | Task Name   | Priority | Duration | Start        | Finish       | 014         2015         2016         2017         20           Q1         Q2         Q3         Q4         Q1         Q2         Q3         < |
|----|-----|---|----------|----------|--------------|--------------|--|
| 1  | -   | 9.1 Elaborate IT-specific marketing material (investment promotion)     | -        | 75 days  | Mon 17.11.14 | Fri 27.02.15 |  |
| 2  |     | 9.1.1 Elaborate presentation on investment opportunities in the Kosov   |          | 55 days  | Mon 17.11.14 | Fri 30.01.15 | KIESA;Budget[8.000 €]  |
| 3  | -   | 9.1.2 Develop brochure on the Kosovo IT industry including investment   | r        | 40 days  | Mon 05.01.15 | Fri 27.02.15 | KIESA;Budget[10.000 €]   |
| 4  |     | 9.2 Develop special information section on the Kosovo ICT industry of   |          | 109 days | Fri 01.05.15 | Wed 30.09.15 |  |
| 5  | 11  | 9.2.1 Develop and integrate special information section on the Kosovo   |          | 11 days  | Fri 01.05.15 | Fri 15.05.15 | C_KIESA;Budget[2.000 €]  |
| 6  |     | 9.2.2 Establish linkage to relevant websites and partners (e.g. Kosovo  |          | 98 days  | Mon 18.05.15 | Wed 30.09.15 | KIESA;Budget[1.000 €]  |
| T  |     | 9.3 Introduce incentive scheme for FDI in the Kosovo IT industry        |          | 512 days | Thu 15.01.15 | Fri 30.12.16 |  |
| 8  |     | 9.3.1 Conduct international (and particularly regional) benchmarking a  |          | 32 days  | Thu 15.01.15 | Fri 27.02.15 | GIZ;Budget(5.000 €]  |
| 9  | -   | 9.3.2 Develop incentive scheme for promoting FDI in the Kosovo IT in    |          | 65 days  | Mon 02.03.15 | Fri 29.05.15 | MF;Budget[5.000 €]   |
| 10 | -   | 9.3.3 Implement incentive scheme for promoting FDI in the Kosovo IT     |          | 415 days | Mon 01.06.15 | Fri 30.12.16 | MF;Budget  |
| 11 |     | 9.4 Engage key account manager for the IT industry at KIESA             | -        | 85 days  | Mon 01.12.14 | Fri 27.03.15 |  |
| 12 |     | 9.4.1 Elaborate job description for key account manager                 |          | 5 days   | Mon 01.12.14 | Fri 05.12.14 | [hKIESA;Budget[1.000 €]  |
| 13 | -   | 9.4.2 Select and engage key account manager for the IT industry at K    |          | 60 days  | Mon 08.12.14 | Fri 27.02.15 | KIESA;Budget[50.000 €]   |
| 14 | 111 | 9.4.3 Provide key account manager with coaching and training on the     |          | 20 days  | Mon 02.03.15 | Fri 27.03.15 | STIKK;Budget[3.000 €]  |
| 15 | -   | 9.5 Conduct specialized marketing & PR activities                       |          | 480 days | Mon 02.03.15 | Fri 30.12.16 |  |
| 16 | -   | 9.5.1 Elaborate and publish articles and whitepapers on the Kosovo I    | -        | 480 days | Mon 02.03.15 | Fri 30.12.16 | STIKK;Budget[10.000 €]   |
| 17 | 0   | 9.5.2 Organize information events on the Kosovo IT industry in ta       | à        | 417 days | Fri 03.04.15 | Mon 07.11.16 | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  |
| 18 |     | 9.5.2 Organize information events on the Kosovo IT industry in ta       |          | 3 days   | Fri 03.04.15 | Tue 07.04.15 | KIESA;Budget[5.000 €]  |
| 19 |     | 9.5.2 Organize information events on the Kosovo IT industry in ta       |          | 3 days   | Thu 03.09.15 | Mon 07.09.15 | KIESA;Budget[5.000 €]  |
| 20 |     | 9.5.2 Organize information events on the Kosovo IT industry in ta       |          | 3 days   | Tue 03.11.15 | Thu 05.11.15 | KiESA;Budget[5.000 €]  |
| 21 |     | 9.5.2 Organize information events on the Kosovo IT industry in ta       |          | 3 days   | Thu 04.02.16 |              | [ KIESA;Budget[5.000 €]  |
| 22 | 111 | 9.5.2 Organize information events on the Kosovo IT industry in ta       |          | 3 days   | Fri 03.06.16 | Tue 07.06.16 | KIESA;Budget[5.000 €]  |
|    | 1   | 9.5.2 Organize information events on the Kosovo IT industry in te       |          | 3 days   | Thu 03.11.16 |              | [ KIESA;Budget[5.000 €]  |
| 24 | -   | 9.6 Establish Digital Tech Park   |          | 520 days | Mon 05.01.15 | Fri 30,12,16 |  |
| 25 | -   | 9.6.1 Adapt the law on Free Economic Zones including incentive sche     |          | 6        | Mon 05.01.15 | Fri 27.03.15 | MF;Budget(10.000 C)  |
|    |     |   |          | 60 days  | Wed 01.04.15 | Fri 28.08.15 |  |
| 26 | H   | 9.6.2 Elaborate feasibility study and concept for the Digital Tech Park |          | 108 days |              |              | Development Banks;Budget[100.000 €]  |
| 27 | 26. | 9.6.3 Establish Digital Tech Park                                       |          | 349 days | Tue 01.09.15 | Fri 30.12.16 | Priv. Investors; Devel. Banks; MF; Bu  |

# 5.2.9. Timetable Strategic Pillar 9: Investment Promotion

## 5.3. Organizational Structure

Another key challenge concerning the implementation of the Kosovo IT Strategy is establishing an appropriate organizational structure, which facilitates effective collaboration and coordination between stakeholders.

The implementation of the Kosovo IT Strategy requires a stakeholder-setting which could best be described as an "extended" triple helix, including actors from the IT industry (private sector), government institutions, academia, as well as donor organizations:

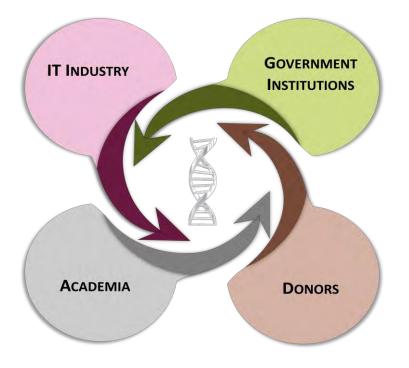


Figure 41: Stakeholder setting and "extended" triple helix

In order to allow for effective strategy implementation an organizational structure is needed which closely involves all the above-shown stakeholders and coordinates their joint efforts towards promoting the Kosovo IT industry and achieving the vision and goals of the strategy. Defining such an organizational structure is particularly difficult, since these stakeholders are legally independent and have different structures, capabilities, resources and organizational cultures. Unlike in a company or ministry, there is no central unit or hierarchy.

Therefore, an innovative form of organization is needed which allows for collaborative strategy implementation in a multi-stakeholder setting and which is beyond traditional corporate or bureaucratic organizational structures based on control or hierarchy. At the same time, the organizational structure needs to reflect the strategy and its principles, goals and measures ("structure follows strategy"). Considering the dynamics of the IT industry, it also needs to facilitate flexible adaptability to changing market conditions as well as effective monitoring and decision-making.

Taking into account the above considerations, the working group defined a network-oriented organization for the implementation of the Kosovo IT Strategy. Such form of organization directly engages all relevant stakeholders from the Kosovo IT industry and is based on voluntaristic collaboration through multilateral coordination by a joint steering committee. The following scheme outlines the proposed organizational structure:

|                     | Steering Committee<br>("Product Owner") | <ul> <li>Review, monitori</li> </ul> | d orchestration of task forces<br>ng and evaluation<br>project scope, funding and resources<br>• Advisory & consulting   |
|---------------------|---|--------------------------------------|--|
| -                   | Task Forces (Agile Teams)               |                                      |  |
| Task Force Pillar 1 | Task Force Pillar 2                     | Task Force Pillar 3                  | <ul> <li>Task forces according to pillars</li> <li>Interdisciplinary, multi-stakeholder team</li> <li>Basis: IT Strategy Working Group</li> <li>Self-organizing teams</li> </ul> |

#### Figure 42: Organizational structure for implementing the Kosovo IT Strategy

As seen above, the **steering committee** is responsible for the overall management and coordination of strategy implementation and also approves tasks and resources according to the operational plan. It orchestrates the different task forces and monitors the implementation of the strategy.

For each of the 9 strategic pillars, specialized **task forces** responsible for implementing corresponding tasks or work packages will be established. These task forces are self-managing teams, which report directly to the steering committee. In case the task forces are not able to fulfil their tasks due to inadequate resources or capabilities, they can be assisted by consultants through donor organization.

Furthermore, an **advisory board** will provide additional support with regards to consulting, resources and external know-how. The advisory board will also be particularly relevant with regards to coordinating donor support in close cooperation with the steering committee.

In the following table, the strategy working group has defined the members (stakeholders and institutions) of the organizational units mentioned above. The corresponding representatives of each stakeholder / institution will be defined during the kick-off event for the implementation of the Kosovo IT Strategy.

| Organizational Unit                  | Members and Staffing  |
|--------------------------------------|---|
| Steering Committee ("Product Owner") | STIKK, MED, MTI, Public University, Private University, Donor Organizations         |
| Advisory Board                       | Universities, ICK, MF, ASHI, ZKM, MASHT, OEK,<br>AmCham, OEGJ, Donor Organizations, |
| Task Forces (Agile Teams)            |   |

| Organizational Unit                        | Members and Staffing   |
|--|--|
| Task Force 1: IT Promotion Policy          | STIKK, ZKM, MF, MTI, ASHI, USAID                                 |
| Task Force 2: Company Excellence & Quality | STIKK, MF, Donors, CBC   |
| Task Force 3: Export Promotion             | STIKK, KIESA, MF, Donors   |
| Task Force 4: Domestic Market Development  | STIKK, ASHI, KIESA   |
| Task Force 5: IT Education                 | MASHT, STIKK, UP, UBT, Universum College,<br>Riinvest University |
| Task Force 6: IT Clusters & Collaboration  | STIKK, Donors, KIESA   |
| Task Force 7: Entrepreneurship             | ICK, KIESA, Donors   |
| Task Force 8: Innovation & Applied R&D     | ICK, MASHT, STIKK, MF, FIEK                                      |
| Task Force 9: Investment Promotion         | KIESA, MF, MTI   |

As can be seen from the above list, all members of the strategy working group have been integrated into the organizational structure, thus ensuring personal consistency throughout the whole strategy development and implementation cycle. Thus, the stakeholders who have already been involved in the development of the Kosovo IT Strategy will also take part in its implementation.

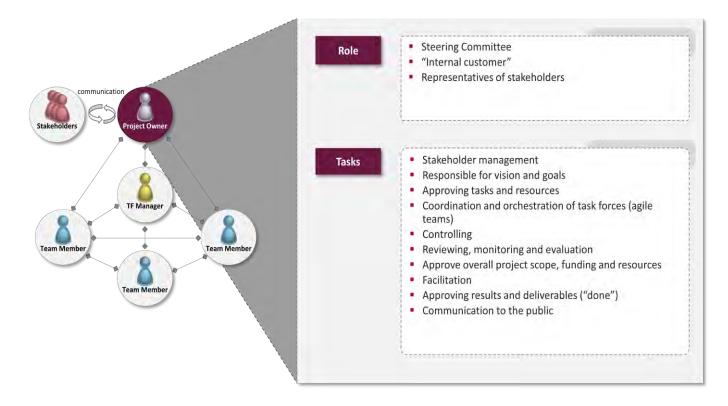
In this context, it deserves mentioning that STIKK will play a key role within the organizational structure and will provide a central platform for managing and coordinating the implementation of the Kosovo IT Strategy in close cooperation with other stakeholders.

In fact, **STIKK will serve as a "system integrator" for the implementation of the strategy**. STIKK represents the actual target group of the strategy, i.e. Kosovo IT enterprises. Moreover, it has a well-established and effective organizational structure, with highly qualified full-time staff, as well as excellent infrastructure including office space, conference rooms, training facilities and IT facilities.

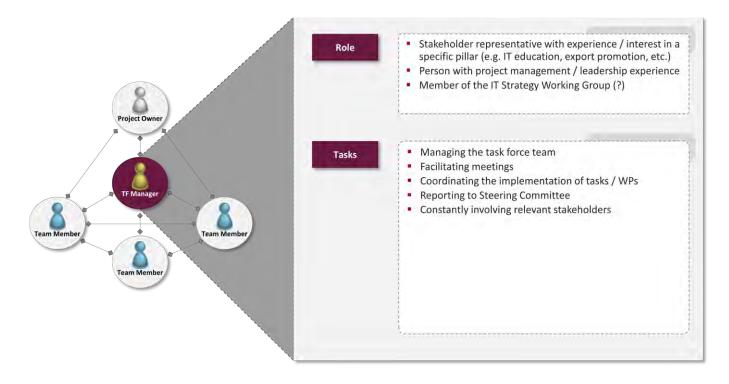
In order to further increase the organizational and operational effectiveness of STIKK, it will be enhanced into an IT cluster, thus allowing for a closer integration of key stakeholders such as universities. Such a cluster structure will enable STIKK to implement selected support measures of the IT strategy as specialized cluster services for the Kosovo IT industry (e.g. STIKK Training Academy, export-oriented support services, etc.). Another benefit of using STIKK as a system integrator within the organizational structure stems from the fact that unlike ministries or public agencies, it is less susceptible to political influences and reshuffles.

The agile approach of the strategy (see chapter 2) is directly reflected in the organizational structure through an agile team framework based on Scrum. As shown in the above table, the organizational structure exhibits several agile elements which will be described in the diagrams below, including the project owner (steering committee) and the agile teams or task forces with their task force managers/agile managers and team members:

#### **Product owner (steering committee):**



#### Task force manager / agile manager:



#### Agile team members:

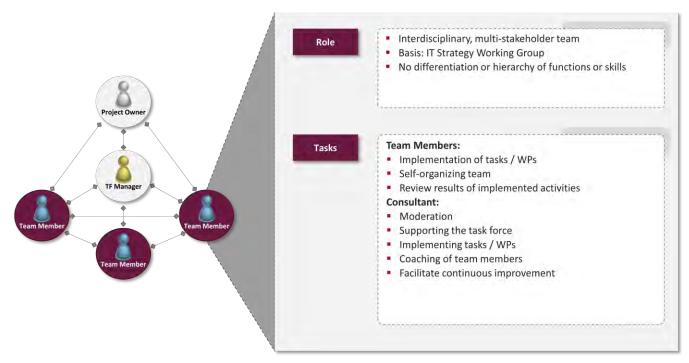


Figure 43: Organizational structure and agile team framework based on Scrum

The effectiveness of these agile task forces is attributable to small, multi-disciplinary teams and close cooperation in iterative cycles (sprints). Concrete benefits of this agile organizational structure include:

- Effective cooperation and coordination through joint task definition & prioritization (sprint planning), as well as regular meetings to align tasks
- Ownership and stakeholder involvement through constant collaboration and communication
- Accelerated implementation of the strategy and its support measures
- Flexibility and enhanced ability to manage changes of priorities, scope and tasks
- Self-managing team empowered to make decisions
- Increased effectiveness due to multi-disciplinary teams
- Reduction of risks through constant feasibility checks during sprints
- Innovativeness due to multidisciplinary teams and the integration of new inputs and ideas
- Constant tracking of team progress with regular review meetings
- Transparency and effective communication
- Learning organization and continuous improvement through iteration and constant feedback loops

Throughout the implementation of the Kosovo IT Strategy, constant communication between the steering committee (product owner) and the agile task forces is required in order to coordinate activities between the different teams and assess implementation progress.

Regular communication and interaction between the task forces as well as with the steering committee will also be needed in order to ensure continuous improvement of the Kosovo IT Strategy.

## 5.4. Process Model & Project Management

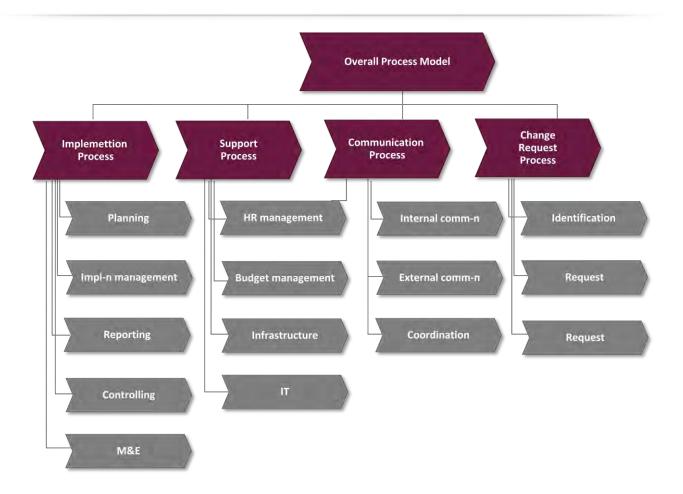
The agile organization outlined in the previous chapter is a process-oriented structure. Taking into account the fact that there are many different stakeholders involved in the implementation of the Kosovo IT Strategy, an effective process model is essential.

To establish the necessary organizational structure and implement the Kosovo IT Strategy, the working group defined the following process:

| Step | Activity   |
|------|--|
| 1    | Formation of Steering Committee  |
| 2    | Steering Committee establishes Task Forces (1-9) and appoints Task Force Managers  |
| 3    | Steering Committee approves tasks and corresponding budgets (based on Operational Plan)  |
| 4    | Task Forces start implementation of tasks according to prioritization (1-3) and timetable (Gantt chart)  |
| 5    | Task forces conduct monthly team-meetings (self-managing teams)  |
| 6    | Steering Committee conducts coordination meeting with task force managers every 3 months (reporting & task implementation review based on deliverables and indicators) |
| 7    | Steering Committee and Task Forces review and update OP (every 6 months)   |
| 8    | Steering Committee approves completion of tasks and activities based on deliverables and indicators ("done")   |
| 9    | Completion of implementation   |
| 10   | Monitoring & Evaluation (M&E)  |
| 11   | Restart IT strategy development cycle (see methodology for the development of the Kosovo IT Strategy)  |

In combination with a suitable overall process model for strategy implementation, a processoriented organizational structure would provide many advantages, including fewer interfaces, higher flexibility, more effective cooperation among stakeholders, as well as higher efficiency and transparency. Accordingly, the working group elaborated an overall process model for the implementation of the Kosovo IT Strategy, taking into consideration the structural peculiarities of the Kosovo IT industry, as well as the specific goals and methodology of the strategy.

The following diagram illustrates the overall process model, including the implementation process, support process, communication process and change request process:



#### Figure 44: Overall process model for the implementation of the Kosovo IT Strategy

In line with the agile approach of the strategy (see chapter 2), the implementation of the operational plan of the Kosovo IT Strategy will be conducted according to an **agile process model** based on Scrum.

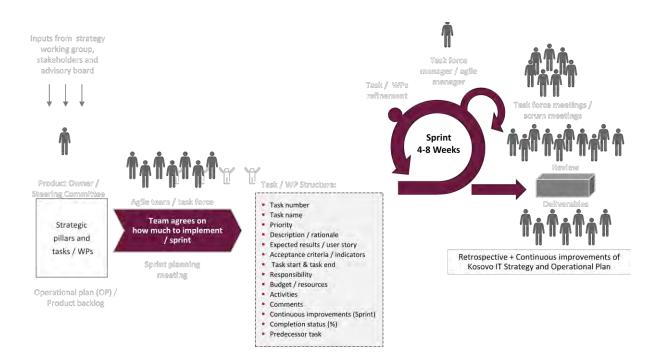
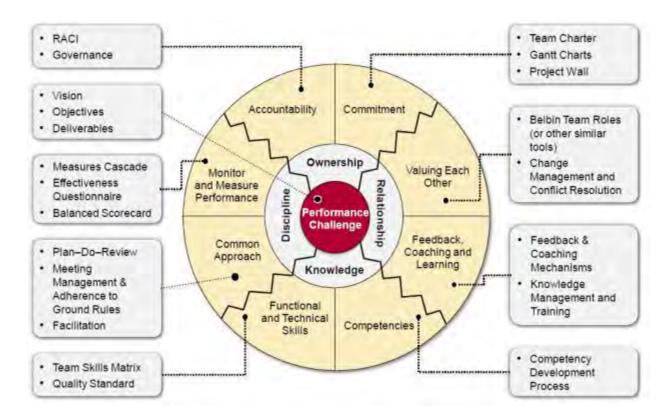


Figure 45: Agile process model for the implementation of the Kosovo IT Strategy.

In accordance with the operational plan, the agile team selects tasks and activities according to its strategic pillar (e.g. IT education) for the current sprint (iteration). Coordinated and supported by the agile manager/task force manager, the team implements the selected tasks and activities within a sprint of 4-8 weeks, including regular scrum meetings to review the progress and orchestrate activities. The iterative process or sprint ends with a sprint review and retrospective. The review results are documented task descriptions/WP descriptions to ensure continuous improvement. Subsequently, the cycle restarts.

It is obvious that effective teamwork and project management constitute an important prerequisite for the successful implementation the Kosovo IT Strategy. Therefore, the working group identified key elements of effective teamwork, as well as the corresponding tools to support it:



#### Figure 46: Key elements and tools of effective teamwork

#### Source: Capgemini

In terms of project management the working group identified the following key success factors:

- Clearly defined objectives
- Stable teams/task forces
- Commitment and reliability
- Open communication
- Common language (English) to include donors and external experts
- Collaborative atmosphere
- Proactive attitude
- Self-organizing and self-managing teams
- Broad range of relevant capabilities, skills and know-how (interdisciplinary)
- Effective methodologies and tools to support collaboration
- Team spirit

The working group decided to develop a concise manual for the implementation of the Kosovo IT Strategy ("implementation manual"), describing the organizational structure, functions, processes, tools, documents and templates to be used by all stakeholders and team members involved in strategy implementation.

## 5.5. Tools

In order to support the collaborative implementation of the Kosovo IT Strategy, the working group identified a set of specific tools which will be presented in this section.

The most important tool for managing and coordinating the implementation process of the strategy are regular **strategy workshops** as well as **task force meetings or Scrum meetings**.

For the purpose of properly managing the overall strategy implementation, STIKK and the steering committee will organize **strategy workshops** every three months. These workshops will be attended by the members of the steering committee, by the 9 task force managers/agile team members, representing their team as well as by the members of the advisory board. During the strategy workshops, the results of the implementation process will be reviewed and discussed according to strategic pillars and task forces. Furthermore, tasks and corresponding resources will be approved, whilst additional planning will be conducted. In addition, the operational plan will be updated.

**Task force meetings/Scrum meetings** will be organized on a monthly basis by the teams, in order to review the progress of task/WP implementation (sprint review) and to coordinate activities (see agile process model in chapter 5.4). These meetings will be attended by the members of the task forces and moderated by the task force manager.

Management and moderation of the workshops and meetings will be primarily based on Scrum and other suitable methodologies already applied during the strategy development process, such as Metaplan, ASE and Design Thinking.

A key tool for managing the implementation of the Kosovo IT Strategy within an agile process model framework will be the **Strategy Scrum Board**, which will facilitate visual planning and management within the task forces. The following chart shows the envisaged Strategy Scrum Board and its key elements:

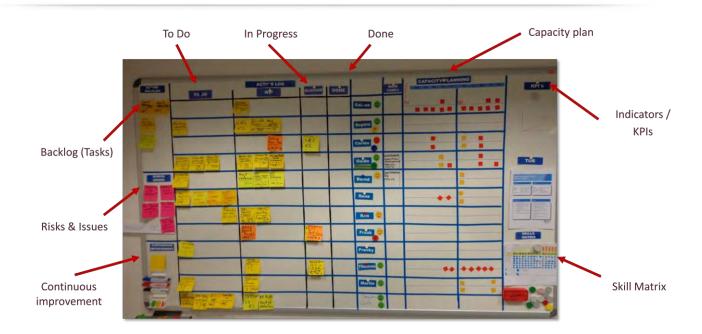


Figure 47: IT Strategy Scrum Board

Source: Capgemini

The Strategy Scrum board will also improve team communication and ensure the visibility of task distribution, capacity planning and implementation progress ("To Do", "In Progress", "Done"). It has been planned to establish an IT Strategy Scrum Board for each of the task forces at STIKK premises.

In terms of IT solutions for supporting the implementation process, the strategy working group evaluated several collaboration and so-called enterprise 2.0 tools, illustrated in the following chart:



Figure 48: IT tools for strategy implementation

After carefully assessing the functionality of the above-shown tools, the strategy working group decided to use MS SharePoint as a central IT solution for facilitating the implementation of the Kosovo IT Strategy. As mentioned in chapter 2.5, SharePoint has already been used to support the development process of the Kosovo IT Strategy.

SharePoint has been selected by the working group as a central tool because it provides a specific functionality, which is very relevant for the collaborative implementation of the Kosovo IT Strategy based on an agile process model. This functionality encompasses, *inter alia*:

- Document Library
- Calendar
- Tasks
- Issue Tracking
- Wiki
- Discussion Board

Contacts

Announcements

- Custom List
- User Alerts
- RSS
- Workflow

Survey

In addition to this functionality the application is comparatively easy to handle and most of the stakeholders are familiar with its function and interface due to the fact that SharePoint had already been used during the strategy development process.

The following screenshot illustrates the structure of the SharePoint for the implementation of the Kosovo IT Strategy:

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#### Figure 49: SharePoint for the implementation of the Kosovo IT Strategy

The Kosovo IT Strategy SharePoint will be used for organizing and coordinating strategy workshops and task force meetings (calendar function). Furthermore, it will be particularly useful for supporting the steering committee and the task forces in terms of progress tracking and document management (task force meeting reports, protocols, deliverables, concepts, market studies, etc.).

## 5.6. Risk Management

Taking into account the dynamics and volatility of global IT markets, the disruptive nature of digital transformation and the framework conditions and uncertainties of Kosovo's domestic market, risk management becomes an important element of the Kosovo IT Strategy.

In general, risk management can be de defined as follows:

"Risk management is the identification, assessment, and prioritization of risks followed by coordinated and economical application of resources to minimize, monitor and control the probability and/or impact of unfortunate events."<sup>34</sup>

According to ISO 31000, the risk management process includes the following steps:

- 1. Establish the context
- 2. Risk identification
- 3. Risk analysis
- 4. Risk evaluation
- 5. Risk treatment

In order to address the issue of risk management, the strategy working group identified the key risks surrounding the implementation of the Kosovo IT Strategy, and defined possible counteractive measures for risk mitigation:

| Possible Risks                     | Counteractive Measures for Risk Treatment  |
|------------------------------------|--|
| No government support              | <ul> <li>Capacity building for public sector stakeholders</li> <li>Awareness raising campaigns, lobbying and PR</li> <li>Donor support</li> <li>Contingency plan and "critical path"</li> </ul>  |
| Recession in the domestic market   | <ul> <li>Increasing export promotion</li> <li>Investment promotion</li> <li>Indirect internationalization</li> </ul>   |
| Recession in target export markets | <ul><li>Developing additional export markets</li><li>Domestic market development</li></ul>   |
| Pull-out of donor organizations    | <ul> <li>Multi-stakeholder approach</li> <li>Ensuring sustainability of support measures (e.g. cluster services through STIKK)</li> <li>Contingency plan and "critical path"</li> </ul>  |
| Massive brain drain                | <ul> <li>Increasing support measures in the area of IT<br/>education</li> <li>Extending student placement service</li> <li>Awareness campaigns and information events on the<br/>attractiveness and opportunities of the Kosovo IT<br/>industry</li> <li>Implementing specific tax incentives</li> </ul> |
| Massive increase in labour costs   | <ul> <li>Increasing support measures in the area of IT<br/>education</li> <li>Promoting vocational education for IT</li> <li>Leveraging demographic development in Kosovo</li> </ul>   |

<sup>&</sup>lt;sup>34</sup> Hubbard, Douglas (2009): 46.

| Increasing regional competition | <ul> <li>Increasing investment in company excellence and<br/>quality</li> </ul>   |
|---------------------------------|---|
|                                 | <ul> <li>Further increasing differentiation and focus</li> <li>Establishing strategic alliances (e.g. SEE IT initiative)</li> </ul> |

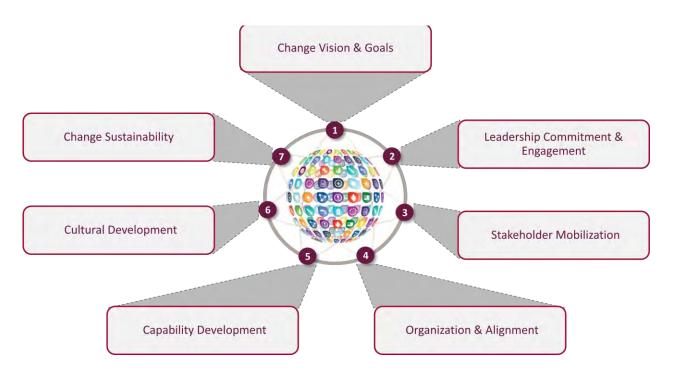
The issue of risk management has been directly addressed within the Kosovo IT Strategy through several measures, including its agile approach, a multi-stakeholder setting, collaborative strategy implementation, diversified support budgets and a focus on financially sustainable support measures.

In addition to that, the monitoring and evaluation system for the Kosovo IT Strategy has been designed specifically to support risk management by detecting and analyzing possible risks for the Kosovo IT industry as early as possible and supporting the rapid development and deployment of effective counteractive measures.

## 5.7. Change Management & Activation

In order to successfully implement the strategy and to achieve the overall goal of the IT industry becoming the main driver for economic growth, employment and innovation in Kosovo, all relevant stakeholders have to be mobilized, integrated and motivated to support the Kosovo IT Strategy.

Therefore, the working group identified change management and the activation and mobilization of its public partners as key success factors for the successful implementation of the Kosovo IT Strategy. Building on the strategy's collaborative approach and the idea of systemic competitiveness, the working group elaborated a specific change management framework aimed at mobilizing and integrating all relevant stakeholders and maximizing public support for the strategy. The key elements and stages within this framework are described in the following diagram:



## Figure 50: Change management framework for the Kosovo IT Strategy

Source: Capgemini

For each of the stages of the change management framework for the Kosovo IT Strategy, the working groups defined a set of specific measures and activities further explained in the table below:

| Key Elements                             | Change management measures  |
|--|---|
| 1. Change Vision & Goals                 | <ul> <li>Developing a compelling vision and goals for the Kosovo IT<br/>Strategy, which are in line with the overall developmental<br/>goals of Kosovo, particularly with regards to digital<br/>transformation and the establishment of a knowledge based<br/>economy.</li> <li>Communicating the IT strategy vision and goals effectively to</li> </ul> |
|  | stakeholders and the public through public events and PR campaigns, including social media.   |
| 2. Leadership Commitment &<br>Engagement | <ul> <li>Ensuring active support and sponsorship of the Kosovo IT<br/>Strategy by top management in the IT industry, government<br/>institutions and academia.</li> </ul>   |
|  | <ul> <li>Supporting the adoption of the Kosovo IT Strategy by the<br/>government.</li> </ul>  |
|  | <ul> <li>Maximizing commitment by stakeholders.</li> </ul>  |
|  | <ul> <li>Aligning stakeholders and donor organizations towards the<br/>goals of the IT strategy.</li> </ul>   |
| 3. Stakeholder Mobilization              | <ul> <li>Conducting stakeholder analysis on a regular basis.</li> </ul>   |
|  | <ul> <li>Raising awareness about the strategic importance of the IT<br/>industry for Kosovo's economy and society through<br/>information workshops, case studies and visits to IT<br/>companies.</li> </ul>  |
|  | <ul> <li>Conducting study trips for public stakeholders to countries<br/>such as Estonia, Lithuania, Bulgaria, Germany and Norway, in<br/>order to promote learning about success stories and good<br/>practices in IT sector promotion.</li> </ul>   |
|  | <ul> <li>Making the rationale behind the IT strategy and its<br/>implementation tangible and comprehensible by providing<br/>corresponding data on exports, job creation and innovation<br/>(e.g. by publishing the results of the Kosovo IT Industry<br/>Barometer).</li> </ul>  |
|  | <ul> <li>Ensuring the realization of quick wins during the<br/>implementation of the Kosovo IT Strategy.</li> </ul>   |
|  | <ul> <li>Motivating stakeholders to engage and commit to the IT strategy.</li> </ul>  |
| 4. Organization & Alignment              | <ul> <li>Understanding the collaboration/communication needs of<br/>stakeholders, particularly in the public sector.</li> </ul>   |
|  | <ul> <li>Develop a methodology for collaborative IT strategy<br/>development and implementation.</li> </ul>   |
|  | <ul> <li>Establishing appropriate organizational structures and<br/>processes for collaborative IT strategy development and<br/>implementation, whereby public stakeholders are closely<br/>integrated,</li> </ul>  |
|  | <ul> <li>Enabling members of the steering committee and the task<br/>forces to serve as "change agents", in order to support the</li> </ul>   |

| Key Elements              | Change management measures   |
|---------------------------|--|
|                           | implementation of the Kosovo IT Strategy.  |
| 5. Capability Development | <ul> <li>Building the necessary capabilities and skills for strategy development and implementation.</li> <li>Establishing STIKK Training Academy to build necessary capabilities and know-how among IT companies and other IT industry stakeholders.</li> <li>Providing capacity building on IT sector promotion for public stakeholders (ministries, agencies, etc.). For further information, see task 1.3 of the Kosovo IT Strategy.</li> </ul>  |
| 6. Cultural Development   | <ul> <li>Identifying necessary cultural changes among stakeholder organizations and making them transparent.</li> <li>Supporting a collaborative culture within the IT industry and among the different stakeholders.</li> <li>Promoting the branding and positioning of the IT industry (both nationally and internationally).</li> <li>Fostering proactive communication and cooperation between public actors and the Kosovo IT industry.</li> <li>Promote an open innovation culture among stakeholders.</li> </ul>  |
| 7. Change Sustainability  | <ul> <li>Introducing performance monitoring and evaluation with reference to the implementation of the Kosovo IT Strategy.</li> <li>Fostering positive motivation among stakeholders and ensuring commitment.</li> <li>Creating quick wins and success stories to demonstrate concrete benefits of strategy implementation.</li> <li>Promoting long-term cooperation between public stakeholders and the Kosovo IT industry through joint task forces and special competence groups.</li> <li>Communicating progress through strategy maps and formal communication channels.</li> <li>Promulgating the achievements of the IT strategy and the transformation process.</li> </ul> |

In terms of change management and activation, it will be particularly important that the government adopt the Kosovo IT Strategy as a national strategy. In addition, a statement of commitment by public stakeholders or a Memorandum of Understanding between relevant ministries and STIKK concerning the implementation of the strategy would be highly recommendable.

Lastly, practical experience from other transformation countries shows that specialized trainings on IT sector promotion for public stakeholders are an important tool for awareness raising and creating the necessary capabilities for effectively implementing national IT strategies. In addition, study trips to countries which have successfully developed their IT industries into drivers for economic growth and innovation such as Estonia, Lithuania or Bulgaria are a valuable instrument for stakeholder activation and mobilization.

## 5.8. Information & Knowledge Management

The specific methodology for the development and implementation of the Kosovo IT Strategy (see chapter 2), based on the principles of collaboration and agility, aims at creating an integrated

"learning system", which facilitates continuous improvement and flexible adaptation of the strategy to changing market conditions and technology trends.

The basis for such a collaborative learning system is knowledge management, enabling the integration and application of knowledge by the members of the task forces, the steering committee, the advisory board and external partners. Further to this point, insights from monitoring and evaluation will be incorporated in the following chapter (see chapter 6).

According to Grant, knowledge management can be defined as follows:

"Knowledge management refers to processes and practices through which organizations generate value from knowledge."<sup>35</sup>

There are different types of knowledge, including implicit knowledge, explicit knowledge and organizational knowledge. While implicit knowledge, which could also be described as know-how, is primarily tacit and difficult to transfer between people, explicit knowledge comprises facts, theories and procedures, which can easily be codified and transferred across individuals and space. Organizational knowledge is generated through interaction and pooling of information between the members of an organization or group.

In knowledge-intensive and dynamic industries such as IT, knowledge management is an important competitive factor, particularly with regards to establishing technical know-how and so-called dynamic capabilities.

Due to its complexity and scope, effective information and knowledge management is of paramount importance for the successful implementation of the Kosovo IT Strategy within a collaborative, multi-stakeholder setting. Taking this into account, the working group developed a specific knowledge management system for the Kosovo IT Strategy, consisting of six different steps or elements:

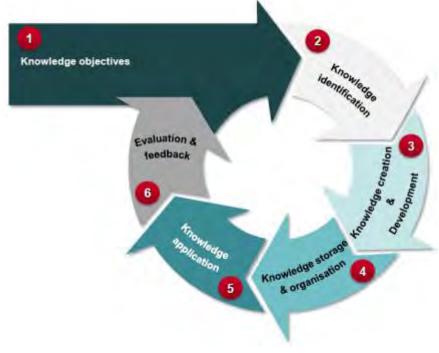


Figure 51: Knowledge management system

<sup>&</sup>lt;sup>35</sup> Grant (2008): 159.

Each of these six elements of the knowledge management system encompasses specific measures and tools which will be described in the following table:

| KM Elements                         | Measures & Tools  |
|-------------------------------------|---|
| 1. Knowledge objectives             | <ul> <li>Generating organizational knowledge for the Kosovo IT<br/>Strategy by transforming individual knowledge of<br/>stakeholders into collective knowledge</li> <li>Internalizing knowledge and know-how of all<br/>stakeholders involved in the development and<br/>implementation of the Kosovo IT Strategy</li> <li>Generating and disseminating knowledge relevant for<br/>the collaborative implementation of the Kosovo IT<br/>Strategy and the corresponding support measures<br/>(pillars 1-9)</li> <li>Using network effects and synergies</li> <li>Creating the basis for developing new, innovative<br/>support measures</li> <li>Knowledge areas: IT promotion policy, company<br/>excellence &amp; quality, export promotion, domestic market<br/>development, IT education, IT clusters &amp; collaboration,<br/>entrepreneurship, innovation &amp; applied R&amp;D, investment<br/>promotion, technology trends</li> </ul> |
| 2. Knowledge identification         | <ul> <li>Identification of existing knowledge areas among<br/>stakeholders and creation of a knowledge map and<br/>MindMaps</li> <li>Identification of resource persons and experts</li> <li>Identification of knowledge gaps</li> </ul>  |
| 3. Knowledge creation & development | <ul> <li>Identification of additional knowledge partner<br/>(universities, research institutes, IT clusters abroad, etc.)</li> <li>Generation of additional knowledge within the identified<br/>knowledge areas through workshops, conferences, study<br/>tours, trainings, cooperation with external partners etc.</li> <li>Conducting the Kosovo IT Industry Barometer on an<br/>annual basis</li> </ul>  |
| 4. Knowledge storage & organization | <ul> <li>Definition of knowledge processes ("who is doing what")</li> <li>Knowledge storage (knowledge carrier / medium):<br/>SharePoint of the Kosovo IT Strategy, knowledge<br/>managers and resource persons in each task force</li> <li>Organization of knowledge dissemination</li> <li>Establishing a knowledge sharing culture among<br/>stakeholders and the members of the task forces / agile<br/>teams</li> </ul>  |
| 5. Knowledge application            | <ul> <li>Application of knowledge to the implementation of the Kosovo IT Strategy</li> <li>Promoting direct exchange of knowledge within and between task forces through joint events, meetings, trainings, etc.</li> <li>Integration of STIKK members into the knowledge</li> </ul>  |

| KM Elements              | Measures & Tools  |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
|                          | <ul><li>management system</li><li>Provision of good practice examples</li></ul>                             |  |  |  |  |  |
| 6. Evaluation & feedback | <ul> <li>Definition of indicators</li> </ul>  |  |  |  |  |  |
|                          | <ul> <li>Evaluating the achievements of knowledge objectives</li> </ul>                                     |  |  |  |  |  |
|                          | <ul> <li>Evaluation of knowledge management system</li> </ul>   |  |  |  |  |  |
|                          | <ul> <li>Getting feedback from task force members on the<br/>knowledge management system</li> </ul>         |  |  |  |  |  |
|                          | <ul> <li>Continuous improvement of the knowledge<br/>management system of the Kosovo IT Strategy</li> </ul> |  |  |  |  |  |

The knowledge management system described above will enable the creation of a collaborative learning system for the implementation of the Kosovo IT Strategy, supporting communication and cooperation between stakeholders and task forces. It will also help to feed back insights and lessons learnt from monitoring and evaluation (see chapter 6) into the agile strategy development and implementation cycle.

The Kosovo IT Strategy SharePoint will serve as the primary tool and platform for knowledge storage and organization. This reflects the specific functionality of the SharePoint described in chapter 5.5, which should facilitate effective communication, information and collaboration among members of the task forces – an important factor not only for knowledge management, but also for the overall implementation of the strategy. The following screenshots show the specific structure of the SharePoint designed to support knowledge and information management for the implementation of the Kosovo IT Strategy:

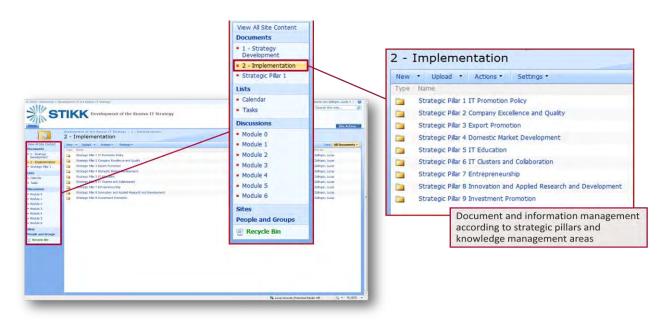


Figure 52: Knowledge and information management with SharePoint

The functional features of SharePoint which are most relevant to knowledge management are document library and search (knowledge storage & organization), as well as Wiki and discussion boards (knowledge creation & development).

In this context, it is noteworthy that direct face-to-face communication and interaction between different stakeholders involved in the implementation of the Kosovo IT Strategy are particularly

important for effective knowledge management. The personal interaction among the members of the task forces, the steering committee and the advisory board is also important to externalize implicit knowledge into explicit knowledge through discussions and close cooperation. For this purpose, knowledge managers will be appointed within each task force and special competence groups for strategic IT topics (see task 6.10 in the operational plan).

# 6. Performance Monitoring and Evaluation

Based on the collaborative and agile methodology outlined in chapter 2, we are now turning to the last module or phase in the development cycle of the Kosovo IT Strategy, which is monitoring and evaluation.

This module includes the elaboration of an M&E system in order to evaluate the effectiveness of the support measures, to provide feedback and to ensure continuous improvement of the Kosovo IT Strategy.

## 6.1. Monitoring & Evaluation: Background

Before describing the proposed M&E system for the Kosovo IT Strategy, the terminology concerning monitoring and evaluation needs to be described as well as its importance in the context of strategy development and implementation.

Since the expressions "monitoring" and "evaluation" are closely related, they are often used interchangeably. However, it is important to clearly define these two concepts and differentiate between them.

According to the Swiss Agency for Development Cooperation (DEZA), "monitoring entails the conscious selection of the areas to be observed, and also the systematic, purposeful collection and production of data and information, during the implementation of a project."<sup>36</sup>

Evaluation is defined as "the systematic and objective assessment of an on-going or completed project, programme, policy or strategy, its design, implementation and results.<sup>37</sup> Hence, one can conclude that while evaluation is concerned with the assessment of a project or strategy according to specific criteria such as relevance, effectiveness, efficiency or impact, monitoring is a management tool providing the information needed to carry out evaluation. Contrary to monitoring, which relates to a process over a certain period of time, evaluation refers to a specific point in time.

Concerning the implementation of the Kosovo IT Strategy, monitoring and evaluation is particularly important for the following reasons:

- Indicating whether the IT strategy implementation process is still on track
- Revealing information on the effectiveness of the IT strategy and its measures
- Providing feedback which can be used as a basis for continuous improvement of the strategy
- Facilitating the creation of organizational knowledge
- Ensuring accountability to the general public and the tax payer
- Ensuring public support for the implementation of the strategy by creating transparency concerning the outcome and the results of the strategy
- Providing a basis for informed decision-making within the strategy implementation process.

In the framework of a special strategy module workshop, the working group analyzed different methods and tools for monitoring and evaluation, as well as international examples of M&E

<sup>&</sup>lt;sup>36</sup> Direktion für Entwicklung und Zusammenarbeit (DEZA) (1999): 22.

<sup>&</sup>lt;sup>37</sup> Organization for Economic Co-operation and Development (OECD): http://www.oecd.org/glossary.

systems for IT strategies. Based on this analysis, the working group identified the following key success factors and challenges:

| Key Success Factors & Lessons Learnt   | Challenges   |
|--|--|
| <ul> <li>M&amp;E measures have to be conducted on<br/>different levels of the M&amp;E system</li> </ul>        | <ul> <li>Outcomes &amp; impacts of implemented<br/>measures are often only visible after many</li> </ul> |
| <ul> <li>To conduct M&amp;E, it is often necessary to</li> </ul>   | years  |
| combine a series of methods  | <ul> <li>Outcomes &amp; impacts are often not directly</li> </ul>  |
| <ul> <li>It is important to have clearly defined<br/>responsibilities of stakeholders involved in</li> </ul>   | linked to the inputs and activities ("attribution gap")  |
| M&E activities   | <ul> <li>Monitoring is mainly output-based and does</li> </ul>   |
| <ul> <li>Specific staff members who will be<br/>responsible for monitoring have to be<br/>appointed</li> </ul> | not consider how provided outputs were<br>used and what related outcomes have been<br>achieved           |
| <ul> <li>Ensure close coordination between project<br/>management and M&amp;E</li> </ul>                       | <ul> <li>Terminology related to M&amp;E often not clear<br/>to all involved stakeholders</li> </ul>      |

The working group took the above mentioned findings into consideration when developing the monitoring and evaluation system for the Kosovo IT Strategy, which will be presented in the following chapter.

## 6.2. Monitoring & Evaluation System

There are many different methods and tools for establishing a monitoring and evaluation system, including impact-oriented M&E and impact chains, Logical Framework (LogFrame) approach, Balanced Scorecard and so-called rapid appraisal methods.

The M&E system for the Kosovo IT Strategy is based on the object-oriented approach of the European Commission's logical framework (LogFrame) and the concept of impact-chains used by the German Agency for International Cooperation (GIZ). In the following section, we will describe the M&E system for the Kosovo IT Strategy, consisting of the three key elements "structure", "goal system & indicators" and "methods & tools".

The overall structure of the M&E system is composed of four different levels of goals, as well as the corresponding indicators and means of verification:

| Level   | Intervention Logic            | Indicator                        | Verification          |
|---------|-------------------------------|----------------------------------|-----------------------|
| Level 1 | Overall goal                  | Overall indicators               | Means of verification |
| Level 2 | Sub-goals (strategic pillars) | Sub-indicators                   | Means of verification |
| Level 3 | User story & results (tasks)  | Acceptance criteria & indicators | Means of verification |
| Level 4 | Activities                    | Deliverables                     | Means of verification |

At the centre of the M&E system and its structure stands the goal system with its indicators. The overall goal of the strategy represents the first level of the M&E system. Because this goal cannot be achieved through a single measure, sub-goals have been set as "interim targets". These sub-goals are directly related to the different strategic pillars and can thus be verified more quickly and easily.

The sub-goals and their respective indicators are logically related to the achievement of the desired overall goal. Thus, the overall goal of the export promotion strategy is to be accomplished as a consequence of the sub-goals having been reached.

Level 3 of the M&E system is represented by the user story & results of the individual tasks, while level 4 represents the activities. It deserves mentioning that level 3 and level 4 are particularly important for monitoring and evaluating the implementation of the operational plan and they constitute the logical basis for achieving the sub-goals, as well as the overall goal.

Indicators constitute another important element of the M&E system and have been defined for each of the four levels. According to the Swiss Agency for Development and Co-operation (SDC), an indicator can be defined as a "Quantitative or qualitative factor or variable that provides a simple and reliable mean to measure achievement, results, and to reflect processes as well as changes in the context."<sup>38</sup> With reference to the Kosovo IT Strategy, indicators help simplify complex, IT-related issues and reduce them to an observable dimension.

The following table shows the overall M&E system of the Kosovo IT Strategy with its different levels, goals and indicators:

| Level   | Intervention Logic   | Indicator  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|
| Level 1 | Overall Goal   | Overall indicators   |  |  |  |  |  |
|         | To become the main driver for economic growth,<br>employment and innovation until the year 2020 by | The Kosovo IT industry achieves a growth rate of 10% per year  |  |  |  |  |  |
|         | increasing the international competitiveness of the Kosovo IT industry based on digital excellence | Exports of the Kosovo IT industry<br>grow by 30% within a period of 3<br>years   |  |  |  |  |  |
|         |  | Employment in the Kosovo IT<br>industry grows by 7% per year   |  |  |  |  |  |
| Level 2 | Sub-goals  | Sub-indicators   |  |  |  |  |  |
|         | Strategic Pillar 1: Introducing a comprehensive IT promotion policy                                | At least 70% of the Kosovo IT<br>companies interviewed evaluate<br>the framework conditions for the<br>IT industry as satisfactory         |  |  |  |  |  |
|         | Strategic Pillar 2: Promoting company excellence & quality   | At least 50% of Kosovo IT<br>companies are certified according<br>to ISO, CMMI or other<br>internationally recognized quality<br>standards |  |  |  |  |  |
|         | Strategic Pillar 3: Promoting exports of the Kosovo IT industry                                    | Exports of the Kosovo IT industry<br>increased by at least 30% within 3<br>years   |  |  |  |  |  |
|         | Strategic Pillar 4: Developing the domestic market and increasing domestic productivity through IT | The domestic IT market increased by at least 10% per year  |  |  |  |  |  |
|         | Strategic Pillar 5: Improving IT education and promoting HR excellence                             | Number of graduates employed<br>by IT companies in Kosovo<br>increased by 20% per year   |  |  |  |  |  |
|         |  | Time to reach job readiness of   |  |  |  |  |  |

<sup>&</sup>lt;sup>38</sup> Swiss Agency for Development and Co-operation SDC: http://www.deza.admin.ch/ressources/resource\_en\_23569.pdf

| Level   | Intervention Logic   | Indicator  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|
|         |  | graduates on company level reduced by 30% within 3 years   |  |  |  |  |  |
|         |  | Number of internships conducted<br>by students with Kosovo IT<br>companies grew by 20% per year                              |  |  |  |  |  |
|         |  | The satisfaction of Kosovo IT<br>companies with the quality level<br>of IT graduates increased by 15 %<br>within three years |  |  |  |  |  |
|         | Strategic Pillar 6: Increasing systemic competitiveness through IT clusters and collaboration          | At least 1 sub-cluster per year established  |  |  |  |  |  |
|         |  | At least 2 MoUs per year signed<br>with international IT clusters,<br>associations or other relevant<br>institutions         |  |  |  |  |  |
|         |  | At least 1 cooperation project<br>with other clusters or<br>associations conducted per year<br>(e.g. EU projects)            |  |  |  |  |  |
|         | Strategic Pillar 7: Enhancing IT entrepreneurship  | The number of business<br>incubated start-ups increased by<br>30% per year   |  |  |  |  |  |
|         |  | The number of business angels<br>and VCs funded start-ups<br>increased by 20% per year                                       |  |  |  |  |  |
|         |  | The number of participants in tech entrepreneurship education programs grew by 35% per year                                  |  |  |  |  |  |
|         | Strategic Pillar 8: Fostering innovation and applied R&D   | At least 1 IT-related R&D project started per year   |  |  |  |  |  |
|         |  | At least 1% of public budget assigned to R&D   |  |  |  |  |  |
|         | Strategic Pillar 9: Promoting Kosovo as an IT investment location                                      | At least EUR 3 million of foreign<br>direct investment (FDI) into the<br>Kosovo IT industry generated<br>until 2018          |  |  |  |  |  |
| Level 3 | User story & results   | Acceptance criteria & indicators   |  |  |  |  |  |
|         | Individual task results (task 1.1 – task 9.6) according to the operational plan                        | Acceptance criteria & indicators according to the operational plan   |  |  |  |  |  |
| Level 4 | Activities   | Deliverables   |  |  |  |  |  |
|         | Activities defined within the individual tasks (task 1.1 – task 9.6) according to the operational plan | Deliverables defined for each<br>activity of a task according to the<br>operational plan                                     |  |  |  |  |  |

In order to illustrate the M&E system of the Kosovo IT Strategy on level 3 (tasks) and level 4 (activities), the chart below has also been included. It shows a special functionality/section which has been introduced to the operational plan and the M&E system in order to ensure continuous improvement of each task and thus of the overall strategy performance. This is an important element of the agile approach of the strategy.

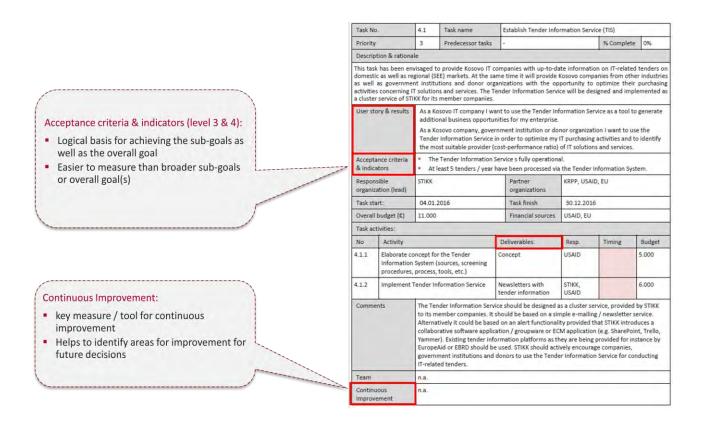


Figure 53: M&E system level 3 and 4

The above chart also shows the user stories which have been embedded into each task, allowing the establishment and evaluation of consistent impact chains within the M&E system.

The M&E system has been designed for an implementation phase of three years. By using the defined indicators, the progress of the strategy implementation can be effectively monitored and evaluated. However, it is important to mention that the M&E system needs to be adapted and updated on a regular basis. Furthermore, responsibilities for M&E have to be assigned. While specific members of the task forces (e.g. knowledge managers) and the steering committee will be responsible for monitoring, evaluation will be conducted with support of external partners.

The third element of the M&E system of the Kosovo IT Strategy implies methods and tools for gathering and analyzing the information needed for monitoring the implementation of the strategy. These methods and tools include:

- Reports of the task forces on implementing specific tasks
- Focus group interviews (stakeholders)
- Joint workshops
- IT Industry Barometer (ITIB)

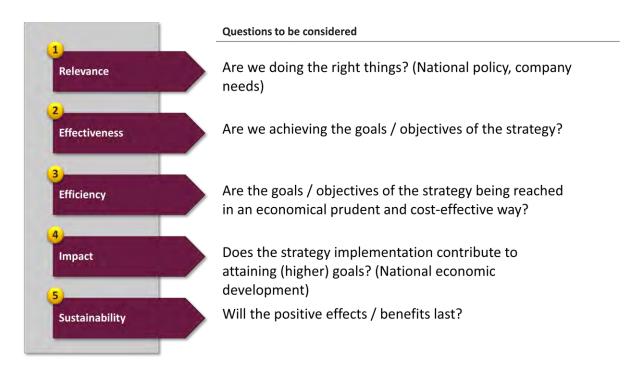
A very important tool for monitoring and evaluating the implementation of the Kosovo IT Strategy will be the Kosovo IT Industry Barometer (KITIB), which has been developed by STIKK in close cooperation with GIZ.<sup>39</sup> The following chart describes the KITIB and its functionality:

<sup>&</sup>lt;sup>39</sup> For further information on the IT Industry Barometer (ITIB) tool please refer to GIZ (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries: 71 ff.

| IT Industry Barometer  | Key Aspects & Function   |
|--|--|
|  | <ul> <li>Tool for monitoring &amp; evaluation of IT industry<br/>performance</li> </ul>  |
|  | <ul> <li>Providing accurate statistical information on the IT<br/>industry</li> </ul>  |
| Line         Line           1 </td <td><ul> <li>Quantitative and qualitative data on company size,<br/>sales, exports, domestic market, technology<br/>profile, vertical specialization, HR, forecasts, etc.</li> </ul></td>   | <ul> <li>Quantitative and qualitative data on company size,<br/>sales, exports, domestic market, technology<br/>profile, vertical specialization, HR, forecasts, etc.</li> </ul> |
| Environmental and  | <ul> <li>"Early warning system" for the IT industry</li> </ul>   |
| Image: Control of the state of the  | <ul> <li>Can be used for monitoring and evaluating the<br/>effectiveness of our Kosovo IT Strategy</li> </ul>  |
| See The of Constant, in Centre III, If<br>the Typical average control groups<br>salary in a data set.  |  |
| Variance $x^2 \equiv \frac{1}{n-1} \left( \sum_{r=1}^n (y_r - \overline{y})^2 \right)$ The variance is a measure of dispersion around the mean.  |  |
| $\label{eq:standard deviation} \begin{array}{c} \mbox{Standard deviation} & x \equiv \left(\frac{1}{N-1}\sum_{k=1}^{N}\left(x_{k}-\overline{x}\right)^{2}\right) & The standard deviation is a measurement of the measurement of th$ |  |
|  | The ITIB will be the most important tool for the<br>M&E system of the Kosovo IT Strategy   |

### Figure 54: Kosovo IT Industry Barometer (KITIB)

Evaluation will take place at least on an annual basis in the form of joint evaluation workshops, including all relevant stakeholders. During these workshops, the results from monitoring will be evaluated and lessons learnt and improvement measures for the Kosovo IT Strategy deducted. Evaluation of strategy implementation will be conducted according to the following evaluation criteria:



#### Figure 55: Evaluation criteria

The proposed M&E system aims at facilitating effective, time-efficient and impact-oriented M&E, which will in turn promote collaborative learning and continuous improvement of the Kosovo IT

Strategy. In addition, it seeks to enhance the agility and strategic response capabilities of stakeholders, thereby increasing the international competitiveness of the Kosovo IT industry and promoting digital transformation.

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### Appendix 1

#### IT Industry Capability Model

| Capability Dimension                      | Capability Factors                                 | Evaluation |   |   | Weighting (w) | Capability value |   |                       |             |                  |                       |             |           |                    |         |
|---|--|------------|---|---|---------------|------------------|---|-----------------------|-------------|------------------|-----------------------|-------------|-----------|--------------------|---------|
|   |  |            |   |   |               | Scale fro        |   | or to 10 = e          | excellent   |                  |                       |             | value (a) | (total 100 points) | (a x w) |
|   |  |            | 1 | 2 | 3             | 4                | 5 | 6                     | 7           | 8                | 9                     | 10          |           |                    |         |
| State Institutions                        | Strategy   |            |   |   | 3             |                  |   |                       |             |                  |                       |             | 3         |                    |         |
|   | Institutions                                       |            |   | 2 |               |                  |   |                       |             |                  |                       |             | 2         | 11                 | 24,75   |
|   | Investment   |            |   |   | 3             |                  |   |                       |             |                  |                       |             | 3         | 11                 | 24,75   |
|   | Support programmes                                 |            | 1 |   |               |                  |   |                       |             |                  |                       |             | 1         |                    |         |
|   |  |            |   |   |               |                  |   | ∑ of assessi          | ment points | / number         | of capability         | / factors = | 2,25      |                    |         |
| CT Infrastructure                         | Energy supply                                      |            |   |   |               |                  |   |                       | 7           | '                |                       |             | 7         |                    |         |
|   | Telecommunications                                 |            |   |   |               |                  |   |                       | 7           | '                |                       |             | 7         | 6                  | 44      |
|   | Internet   |            |   |   |               |                  |   |                       |             |                  | 8                     |             | 8         |                    |         |
|   |  |            |   |   |               | ī                |   |                       | ment points | / number         | of capability         | / factors = |           |                    | T       |
| emand                                     | Export market                                      |            |   |   |               |                  | 5 | 5                     |             |                  |                       |             | 5         | 10                 | 40      |
|   | Domestic market                                    |            |   |   | 3             |                  |   |                       |             |                  |                       |             | 3         |                    |         |
|   |  |            |   | 1 |               |                  |   | ∑ of assessi          | ment points | / number         | of capability         | / factors = |           |                    |         |
| tructural characteristics of the industry | Number of companies                                |            |   | - | 3             |                  |   | 1                     |             |                  | -                     |             | 3         |                    |         |
|   | Average size of companies                          |            | - |   | 3             |                  |   |                       |             |                  |                       |             | 3         |                    |         |
|   | Structure  |            |   |   |               | 4                |   |                       |             |                  |                       |             | 4         | 11                 | 47,67   |
|   | Wages  |            |   |   |               |                  |   | e                     | 5           |                  |                       |             | 6         |                    |         |
|   | Organization level and associations                |            |   |   |               |                  |   |                       |             |                  | 8                     |             | 8         | _                  |         |
|   | Cluster  |            |   | 2 |               |                  | _ |                       |             |                  | C                     |             | 2         |                    |         |
|   |  |            |   | 1 | 1             |                  |   |                       | ment points | / number         | of capability         | /factors =  | 4,33      |                    | 72      |
| ompany capabilities                       | Management skills                                  |            |   | - |               |                  |   | e                     | 5           |                  |                       |             | 6         | 16                 |         |
|   | Export skills & references                         |            |   | 2 |               |                  |   |                       |             |                  |                       |             | 2         |                    |         |
|   | Technology skills                                  |            |   |   |               |                  |   | ť                     | 5           |                  |                       |             | 6         |                    |         |
|   | Quality management, processes and standards        |            |   |   |               | 4                |   | (                     |             | /                | - 6 h-114-            | . f = . t = | 4         |                    |         |
| cademia & support institutions            | Education and human resources                      |            |   | 1 | 1             | 4                |   | > of assessi          | ment points | / number         | of capability         | / factors = | 4,5       |                    | 4       |
| cademia & support institutions            | Continuous education & training                    |            |   |   |               | 4                | 5 |                       |             |                  |                       |             | 4         |                    |         |
|   | Research & development                             |            |   | 2 |               |                  | 5 | -                     |             |                  |                       |             | 2         | 16                 | 48      |
|   | Capital & financing                                |            | 1 | 2 |               |                  |   |                       |             |                  |                       |             | 1         | <u>-</u>           |         |
|   | Capital & Infancing                                |            | - |   |               |                  |   | 7 of assess           | ment points | / number         | of canability         | factors =   | 3         |                    |         |
| nternational linkage & branding           | Image & branding                                   |            |   | 2 |               |                  |   | 2 01 8336331          | ment points | 7 number         | or capability         |             | 2         |                    | 50,6    |
|   | Offshore / nearshore factors (geography, language, |            |   | - |               |                  |   |                       |             |                  |                       |             | -         |                    |         |
|   | culture)   |            |   |   |               |                  |   |                       |             |                  | 8                     |             | 8         |                    |         |
|   | Intellectual property (IP)                         |            |   | 2 |               |                  |   |                       |             |                  | -                     |             | 2         |                    |         |
|   | Linkages & networks                                |            |   |   |               |                  | 5 | 5                     |             |                  |                       |             | 5         |                    |         |
|   | Diaspora   |            |   |   |               |                  | - | e                     | 5           |                  |                       |             | 6         |                    |         |
|   |  |            |   |   |               |                  |   | Σ of assess           | ment points | / number         | of capability         | / factors = |           |                    |         |
| novation                                  | Institutional framework for innovation             |            | 1 |   |               |                  |   | 1                     |             |                  |                       |             | 1         |                    | 8,33    |
|   | Public sector based research & innovation          |            | 1 |   |               |                  |   |                       |             |                  |                       |             | 1         | 1 5                |         |
|   | Private sector led research & innovation           |            |   |   | 3             |                  |   |                       |             |                  |                       |             | 3         |                    |         |
|   |  |            |   | · |               |                  |   | ∑ of asse <u>ss</u> i | ment points | / numb <u>er</u> | of capab <u>ility</u> | factors =   | 1,67      |                    |         |
| ynamic capabilities                       | Detection (monitoring, scanning, scouting)         |            |   |   |               | 4                |   |                       |             |                  |                       |             | 4         | 4<br>4<br>11       |         |
|   | Strategic response development                     |            |   |   |               | 4                |   |                       |             |                  |                       |             | 4         |                    | 44.25   |
|   | Joint learning & capacity building                 |            |   | 1 |               | 4                |   | 1                     | 1           | 1                |                       | 1           | 4         |                    | 41,25   |
|   | Change management & implementation                 |            |   |   | 3             |                  |   |                       |             |                  |                       |             | 3         |                    |         |
|   |  |            |   |   |               |                  |   |                       |             |                  |                       |             |           |                    |         |