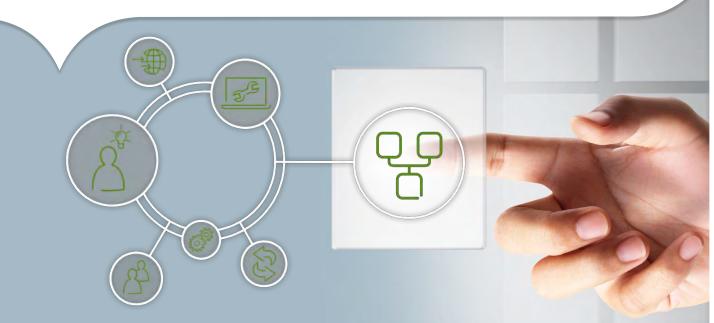


Kosovo IT Strategy





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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 million¹ 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,² 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

¹ EITO 2014/2015.

² 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:³

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

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

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

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 GIZ⁴ 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:

⁴ See GIZ (2011): Manual for IT Sector Promotion in Developing and Emerging Countries.

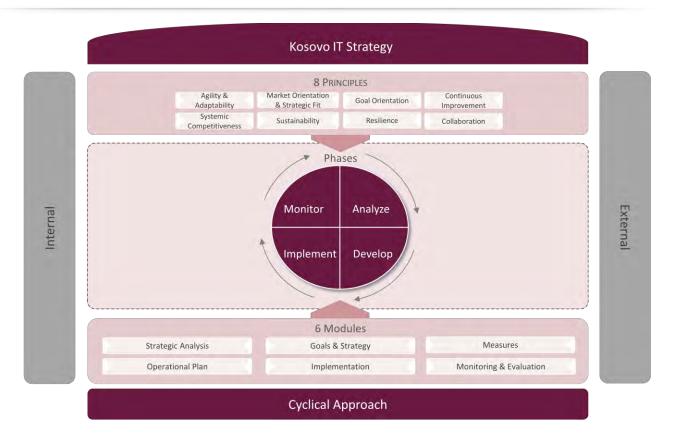


Figure 1: Overview: Methodology for collaborative development of the Kosovo IT Strategy.

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

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

In this context, the concept of **systemic competitiveness**⁵ 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

⁵ 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:

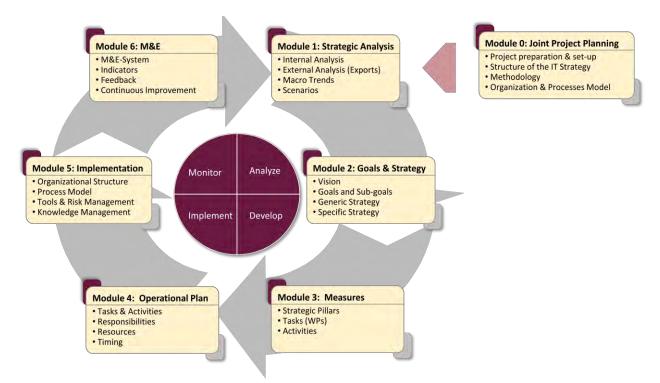


Figure 3: Phases and modules of the IT strategy development process

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.

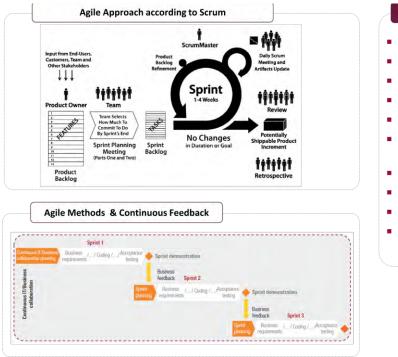
Module 4 and 5 were part of the implementation phase. They focused on the development of the overall organizational structure, processes and instruments for strategy implementation, including the elaboration of an operational plan.

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 Scrum⁶, 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

⁶ 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
 Analysis by using IT Industry Capability Model (ITICM): 9 IT industry capability dimensions Subdivided in capability factors Analysis of the domestic market Analysis by using the Kosovo IT Industry Barometer 	 Assessment of key export markets: Germany / DACH Norway, Netherlands, UK Information on size, structure and trends of potential markets Identification of customer requirements and key success factors Form: market analysis including expert interviews Qualitative and quantitative information

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:

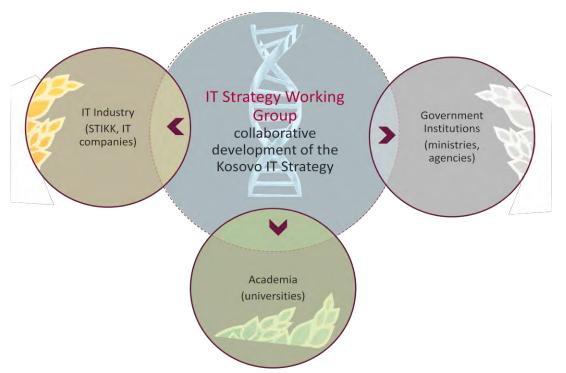


Figure 6: The IT Strategy Working Group and the "Triple Helix"

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 Communication Technology (STIKK) Innovation Center Kosovo (ICK)	 Ministry of Labour and Social Welfare University of Prishtina Kosovo Investment and Enterprise
---	---	--

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

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:

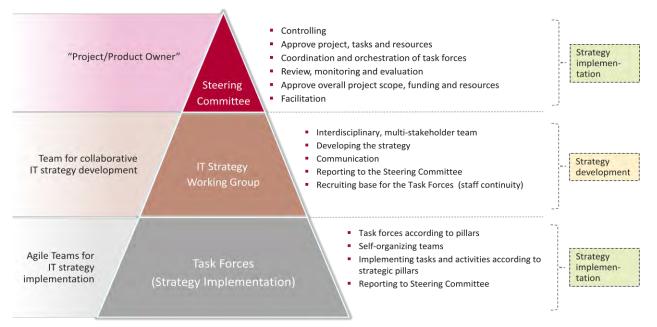


Figure 7: Organizational structure for the development and implementation of the Kosovo IT Strategy

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):

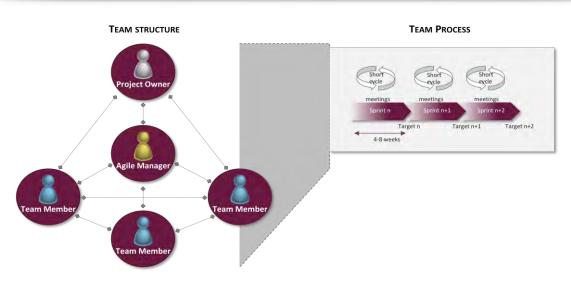


Figure 8: The agile team framework⁷

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.

⁷ Based on Scrum.

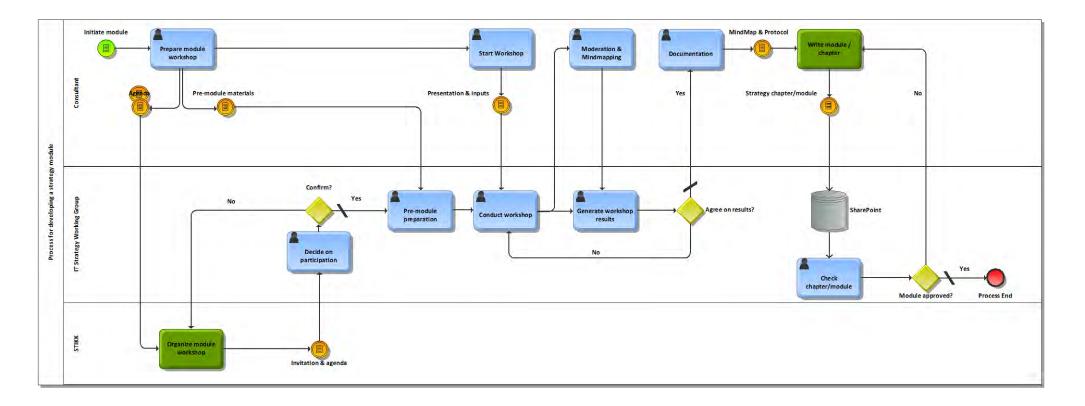


Figure 9: Process for developing the individual strategy modules

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

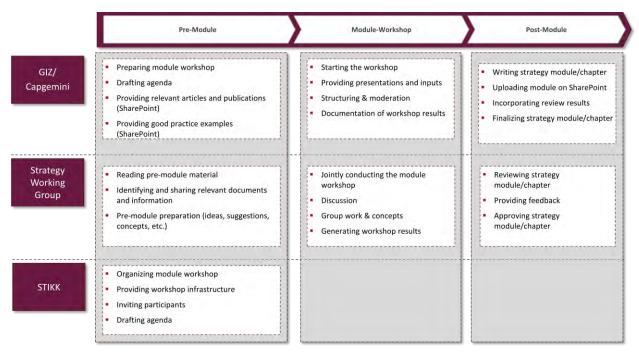


Figure 10: Roles and tasks in the strategy module process

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).

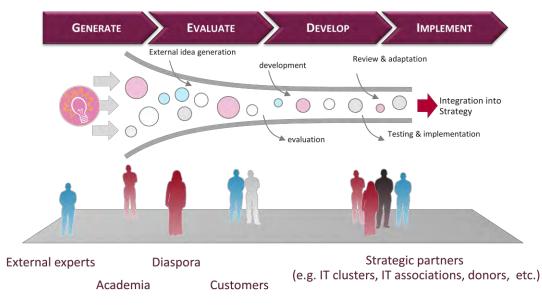


Figure 11: Open innovation

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	
 Strategy workshops MindMap Metaplan Group discussions Brainstorming ASE methods 	 SWOT analysis IT industry capability model Transformation maps Scenario analysis Case studies Logic trees LogFrame IT industry barometer Ansoff-Matrix 	

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:

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				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:

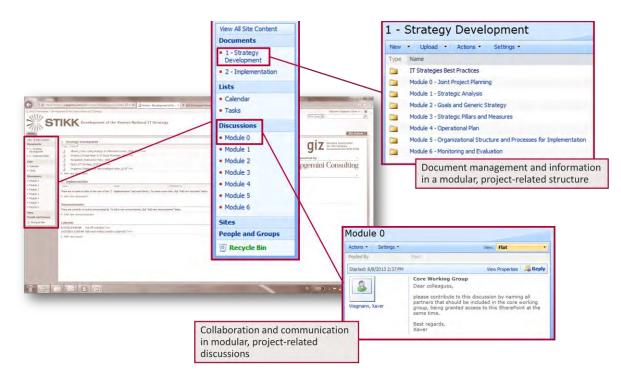


Figure 13: Functionality of the SharePoint for the Kosovo IT Strategy

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.

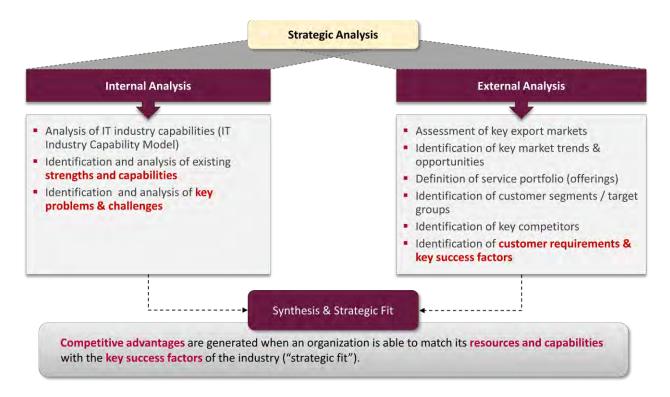


Figure 14: Strategic analysis

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.⁸

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

⁸ See Prahalad and Hamel (1990), Porter (1990), Grant (2008).

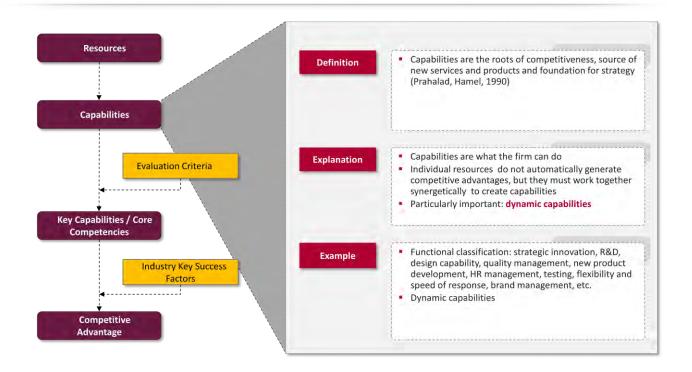


Figure 15: The dynamic interaction of resources, capabilities and competitive advantages

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.

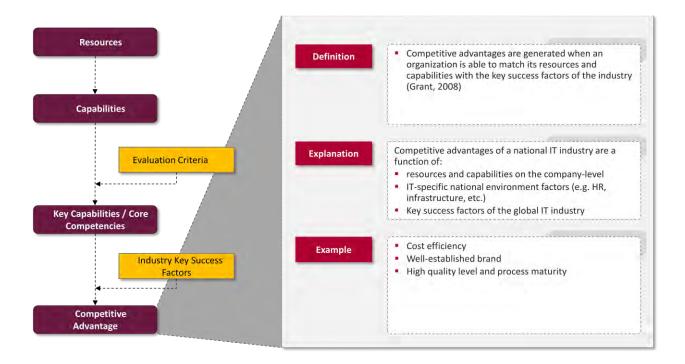


Figure 16: Competitive advantages

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)**,⁹ 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)¹⁰, 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).¹¹
- Results of the ICT Market Analysis and Skills Gap Analysis Kosovo, conducted in 2013.¹²
- Results of the Workshop on Strategy Module 1 "Strategic Analysis", conducted by the working group on October 2nd 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:

⁹ GIZ (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries: 5 ff.

¹⁰ STIKK / GIZ (2014): Kosovo IT Industry Barometer (KITIB).

¹¹ GIZ (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries: 71 ff.

¹² INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Strategy	 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. Kosovo does not have a comprehensive ICT industry policy. Lack of know-how among stakeholders of the Kosovo IT industry on systematic IT sector promotion. 	3
	Institutions	 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. Special advisory institutions on IT like a national CIO or national IT steering committees do not exist in Kosovo. 	2
State Institutions	Investment	 There are no special investment programs in place for the IT industry. In general government institutions are not investing systematically into the promotion of the Kosovo IT industry. Only indirect support of the IT industry through public tenders which regularly reveal irregularities in terms of transparency of tender procedures. There is no systematic approach for promoting foreign direct investment into the Kosovo IT industry. 	3
	Support programmes	 There is a lack of awareness among public stakeholders on the strategic importance of the IT industry for the Kosovo economy. According to STIKK there are no support measures or incentives available for the IT industry. Special industrial zones or incentive schemes like for instance in Macedonia do not exist. 	1
ICT infrastructure	Energy supply	 Energy supply for the Kosovo IT industry is stable and reliable. Due to subsidization, energy costs in Kosovo are among the lowest in the region. 	7
	Telecommunica- tions	 Network coverage is 98%. 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). The most important provider of telecommunication services is Telekomii Kosoves but the number of internet providers is 	7

¹³ 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 Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
		constantly growing.In general, telecommunication services are competitive on a regional level.	
	Internet connectivity	 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.¹⁴ On average the internet connectivity is between 2 – 4 Mbps, but can be easily extended due to existing fiber optic network. In urban areas, internet infrastructure is based on fiber optics networks. Prices for internet are affordable for local IT companies and internationally competitive. 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.¹⁵ 	8
	Legal framework	 The necessary legal framework and infrastructure is in place including laws on electronic communication, information society services (e-signature, e-payment, etc.), IPR, etc. 	n.a.
Demand	Export market	 Exports are becoming increasingly important due to the very limited domestic demand. Market potential: increasing demand for outsourcing / nearshoring particularly in Western Europe. Main target markets: DACH, Scandinavia, Netherlands, UK, USA. Main target industries (verticals) of Kosovo IT exports: IT industry, telecommunications, media, NGOs, financial services, gaming & entertainment, retail, utilities. The results of the KITIB 2014 indicated that Kosovo IT export mostly consisted of software and IT services. Main products / services exported: mobile solutions, web design, IT consulting, e-commerce applications, custom software development / outsourcing, CRM, document management. The IT enterprises interviewed regard exports also as an important means to increase their international competitiveness through technology transfer and higher quality standards. 	5

¹⁴ Source: http://www.art-ks.org/repository/docs/Pasqyre%20e%20tregut%20te%20Komunikimeve%20Elektronike%20TM3%20dhe%20TM4_2012.pdf.

¹⁵ STIKK (2013): Internet Penetration and Usage in Kosovo.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Domestic market	 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. The total value of the Kosovo IT market is expected to account for 126 million in 2014.¹⁶ The compound annual growth rate for the Kosovo IT market in 2015 is projected to reach 4%.¹⁷ 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. Main target industries (verticals) of Kosovo IT firms: public sector, financial services, utilities, retail, health, tourism, telecommunications, education. Main products / services (horizontals): Web design, IT consulting, e-commerce applications, BI, CRM, document management, IT project management, mobile solutions, custom software development. 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).¹⁸ In the public sector demand for IT applications for health and for education is likely to increase substantially. 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). Demand from SMEs for IT solutions (particularly ERP applications) is picking up slowly. 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). 	3
Structural characteristics of the industry	Number of companies	 According to STIKK, there are ca. 120 IT companies in Kosovo employing ca. 3,000 IT professionals. In addition to that there are another 10 IT start-up companies located in the Innovation Center Kosovo (ICK). The presence of international IT companies in Kosovo is very low. 	3

¹⁶ STIKK (2014). ¹⁷ IDC (2012). ¹⁸ STIKK (2012), Public Procurement for ICT in the Period June 2009 – June 2012.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Average size of companies	 The Kosovo IT industry consists of SMEs with an average of 5 – 20 employees. There is a vibrant community of IT freelancers. 	3
	Structure	 According to the results of the KITIB the majority of the Kosovo IT companies provide software and IT services 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. 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). IT firms follow essentially imitative strategies rather than strategies of innovation and differentiation. 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. In comparison to the region, Kosovo IT companies are comparatively young with an average age of 7 years. The IT industry accounted for 2.3% of Kosovo's GDP in 2013¹⁹ 	4
	Wage structure	 Wages in the IT industry are competitive on a regional as well as international level. Average salaries in Kosovo IT companies according to STIKK: Junior entry level developer: ca. € 250 - 400 Junior software developer: ca. € 400 - 500 3+ years in software development: ca. € 500 - 900 Business analyst/ project manager: ca. 900 - 1,200 Senior software developer/ 5+ software developer: ca. 1,200 - 1,600 Department manager: ca. € 1,600 The shortage in university graduates could adversely affect salary and price structures in the Kosovo IT industry. 	6
	Organization level and associations	 Established in 2008, STIKK is the central ICT association of Kosovo with 65 member companies and 5 academic partner organizations. STIKK has a well organized and effective organizational structure with a stable membership base. The number of member companies is increasing. 	8

¹⁹ Kosovo Agency for Statistics (2013).

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Cluster	 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. STIKK has also included universities and government institutions into its organizational structure thus indicating the "Triple Helix" structure which is typical for IT clusters. 	2
Company capabilities	Management skills	 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. Deficits exist especially in the areas of HR management, marketing & sales, project management and product management. In general, managers as well as staff often lack the necessary soft skills. It is likely that the situation is going to improve as more and more MBA graduates are available on the Kosovo labour market. There is a comparatively high fluctuation between companies which can be mainly attributed to a lack of HR management skills. 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.²⁰ 	6
	Export skills	 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. The small size of IT enterprises also correlates with a lack of resources needed for the successful penetration of export markets. 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. 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. Many companies rely on diaspora contacts for exporting. 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. 	2

²⁰ STIKK / INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Technology skills	 In terms of programming languages and development tools companies are mostly focused on Java, JavaScript, HTML, XML, PHP and .NET. According to the KITIB Kosovo IT companies work mostly with the following operating systems and platforms: Windows, Android, iOS and Linux. With regards to database technologies IT companies in Kosovo use mostly mySQL, MS SQL Server, Access, SQL, Oracle and less frequently ODBC. 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. In general there is a lack of technical specialization and focus on the company level but also among employees. 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.²¹ 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. 	6
	Quality management, processes and standards	 According to the KITIB the majority of the Kosovo IT companies (64%) have no quality certification There are several IT companies certified according to ISO 9001 and ITMark and one company which is ISO 27000 certified. In the area of software testing, several companies have ISTQB certified software testers. 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. 	4
Academia & support institutions	Education & human resources	 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. In total there are 6 universities in Kosovo teaching computer science and IT related subjects, producing ca. 350 IT graduates / year. The output of the universities is insufficient in terms of quality and quantity. 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 	4

²¹ STIKK / INDEXKOSOVA (2013): ICT Market Analysis and Skills Gap Analysis Kosovo.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
		 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. Only 9% of IT firms agree that the educational program (curricula) addresses the required working skills in the IT sector.²² 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. 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. A key problem is the high drop-out rate, since many IT students start working without graduating. There is still a strict division of subjects within the IT education system. Hybrid study programs such as business informatics do not exist. Universities are severely underfunded. The academic infrastructure, particularly buildings and IT labs need substantial investments. 	
	Continuous education & training	 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. There are ca. 16 companies providing standard trainings for CISCO, Microsoft, etc. Companies usually conduct inhouse trainings and some enterprises have even special training and development tracks for their employees. 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. 	5
	Research & development	 There are only very little R&D activities on the university and company level. The University of Prishtina has tried to conduct R&D activities in the framework of FP7 projects. Universities lack the necessary IT infrastructure (IT labs). 	2

²² STIKK / INDEXKOSOVA (2013): ICT market analysis and skills gap analysis Kosovo.

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
		 The necessary capabilities as well as resources are currently not available. 	
	Capital & financing	 There are no special financial schemes available for the IT industry. 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. Particularly financing export activities is a challenge for IT SMEs since there are no export financing schemes available. At the current stage, venture capital (VC) is not available in Kosovo. 	1
	Image & branding	 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. There is an obvious lack of national branding to position Kosovo as an attractive IT industry location. 	2
	Offshore / nearshore factors	 Kosovo is ideally suited as a nearshoring destination due to its geographic and cultural proximity as well as language capabilities. In terms of exporting and providing nearshoring services, visa restrictions are a severe obstacle for companies. 	8
International	Intellectual property (IP)	 The necessary laws are in place but not exhaustively enforced. 	2
linkage & branding	Linkages and networks	 STIKK is member of the European PIN SME, WITSA and the SEEITA and SEE ICT Forum. 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. 	5
	Diaspora	 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. 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. 	6
Innovation & entrepreneurship	Institutional framework for innovation	 In general, the government sees innovation as having an important role in Kosovo's economic and social development 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. 	1

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
		 Linkages to the diaspora could play an important role in channelling new know-how, ideas and financial resources to Kosovo's innovation system. 	
	Public sector based research & innovation	 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&D capabilities. This substantially limits the ability of universities and institutes to conduct more applied research in support of Kosovo's IT industry. R&D in Kosovo is characterized by weak cooperation between the private sector and universities. Research & innovation activities are mostly carried out in the framework of FP7 and Horizon2020 projects. Basic research or product innovation is basically not taking place in Kosovo's IT sector. 	1
	Private sector led research & innovation	 STIKK and the ICK are playing a key role in Kosovo's innovation system by promoting entrepreneurship and innovation in the IT industry. ICK manages an incubator and supports innovative IT start-ups. 	3
Dynamic capabilities	Detection (monitoring, scanning, scouting)	 Concerning the detection of relevant technology and market trends, STIKK as well as the universities are playing a key role. However, due to the very limited resources available, their ability for monitoring, scanning and scouting is rather restricted. 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. 	4
	Strategic response development	 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. The collaborative development of the Kosovo IT Strategy is an important step to substantially improve the strategic response capabilities of Kosovo IT industry stakeholders. 	4
	Joint learning & capacity building	 Joint learning & 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. 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. 	4

Capability Dimension	Capability Factor	Qualitative Evaluation	Assessment Value ¹³
	Change management & Implementation	 There is a lack of know-how on suitable methods and instruments for change management and implementation with regards to IT sector promotion. 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. 	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.²³

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

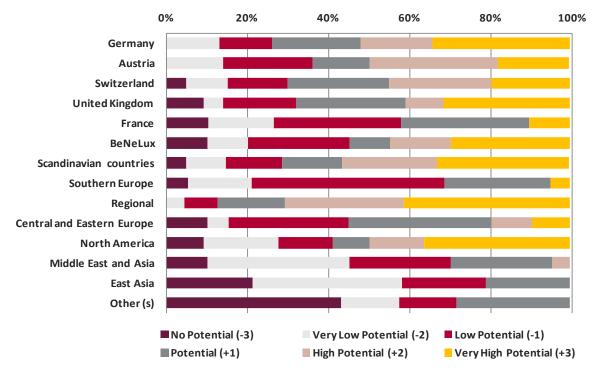


Figure 17: Potential of Export Markets

Source: STIKK & GIZ: Kosovo IT Industry Barometer 2014

²³ 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.²⁴

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 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%

²⁴ 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

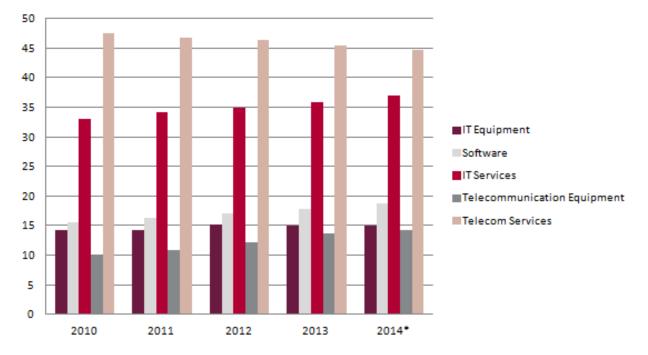


Figure 18: ICT market value by segment (in € billion)

Source: EITO 2013

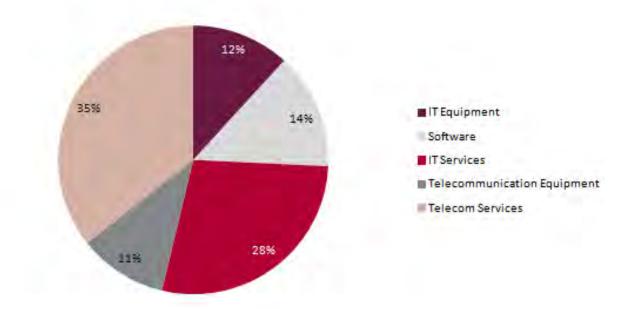


Figure 19: ICT market shares by segment (2013, in %) Source: EITO 2013

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 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. 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- 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:²⁵

- 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.

²⁵ 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 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

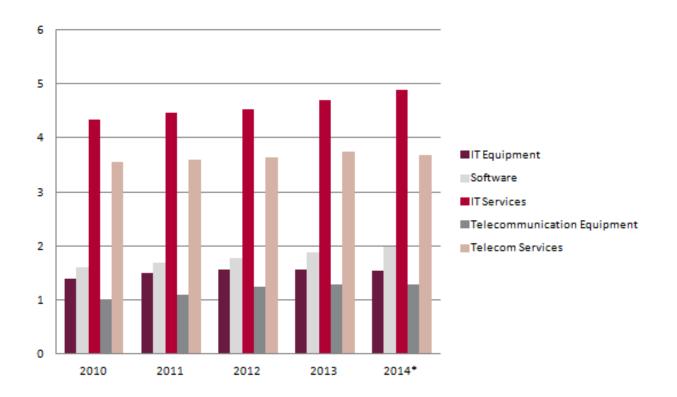


Figure 20: ICT market value by segment (in € billion)

Source: EITO 2013

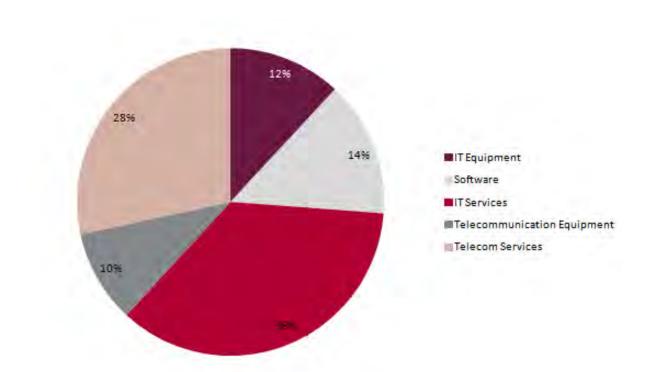


Figure 21: ICT market shares by segment (2013, in %)

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 software & platforms	0.4	0.4	0.4	0.4	0.4	0.5	0.5	
Application software 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 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:²⁶

- 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

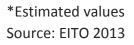
Netherlands: ICT Market Overview

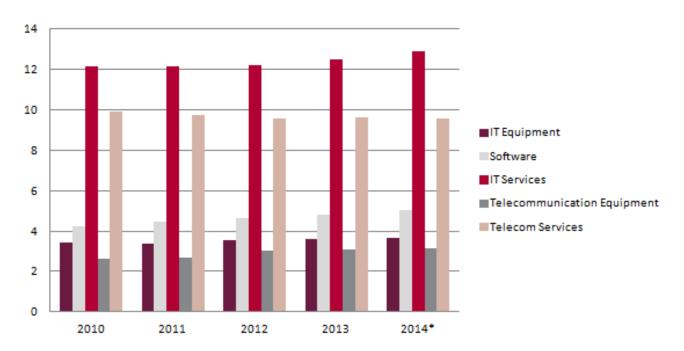
Table 7: ICT Market Overview Netherlands

	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 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 %)					

²⁶ 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

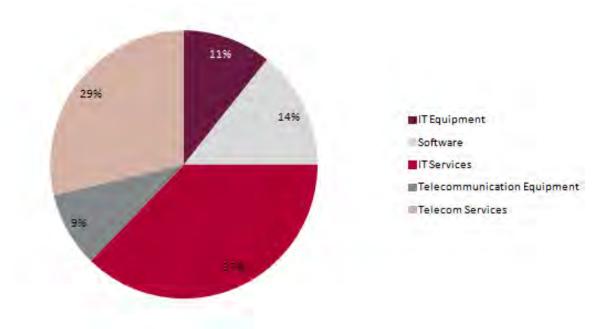


Figure 23: ICT market shares by segment (2013, in %)

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 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 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
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	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:²⁷

- 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.

²⁷ 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 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

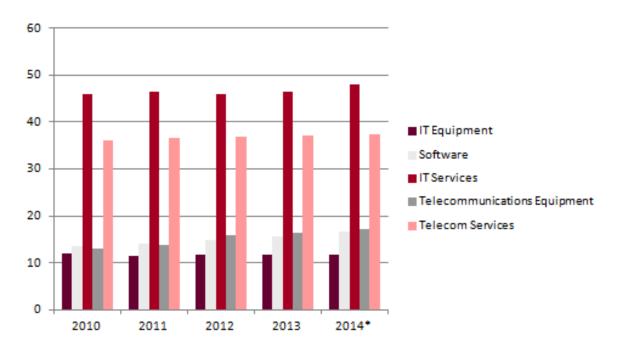


Figure 24: ICT market value by segment (in € billion) Source: EITO 2013

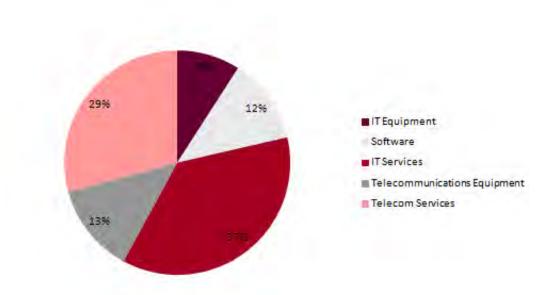


Figure 25: ICT market shares by segment (2013, in %) Source: EITO 2013

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 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. 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 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:

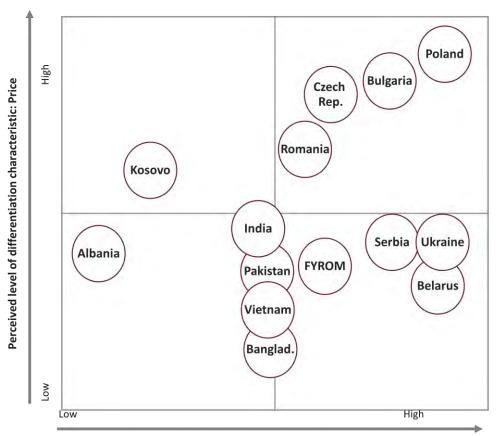
- The UK software market achieved a total market value of EUR 15.7 billion in 2013 and is projected to grow by 5.6% in 2014.
- The British software market is among the largest in Europe, exhibiting dynamic development in the areas of cloud solutions, mobility and digital business transformation.
- Application 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
 Highly competitive prices and cost structures Economies of scale Political stability Good education system FDI Access to capital / financing Standardization Government incentives No travel restrictions (visa) 	 Lack of specific European language capabilities (e.g. German) Rising wages and prices Demographic factors Brain drain Geographic location (lack of Nearshoring factors)

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:

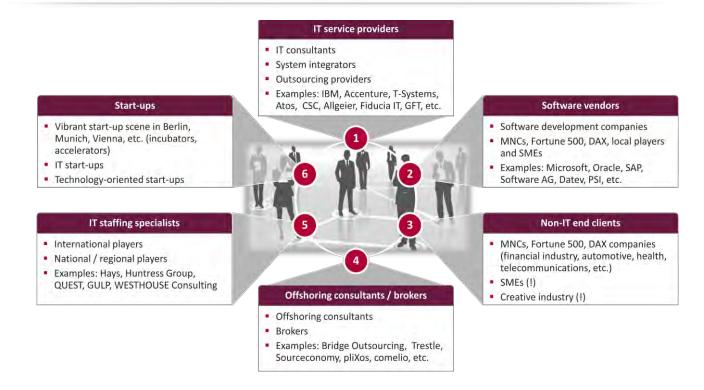


Figure 27: Target groups and potential customer segments

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:

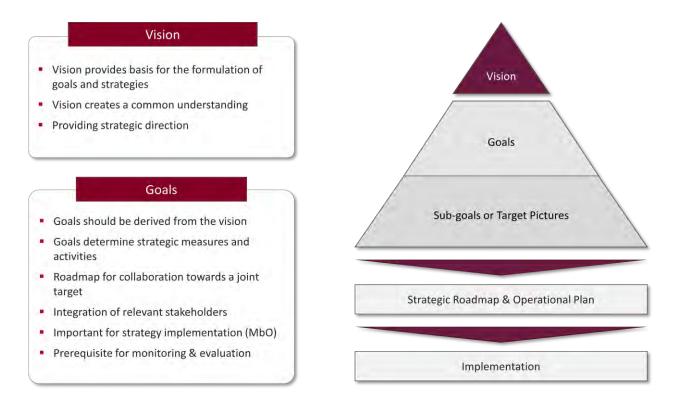


Figure 28: Vision and goal system

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):

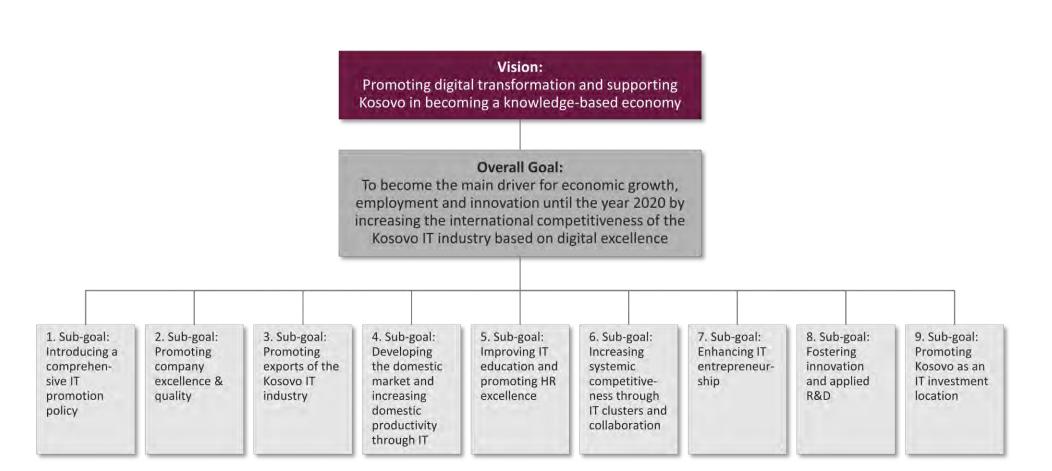


Figure 29: Goal system of the Kosovo IT strategy

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.²⁸ 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:

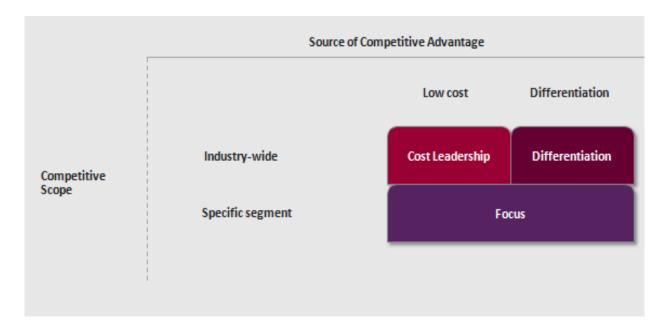


Figure 30: Porter's generic strategies

Source: Diagram based on Grant (2008): 219

²⁸ 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 (-)
Simple, straightforward optionSupports rapid market penetration	 Problems with sustainability and long- term effectiveness
 Compatible with customer expectations/ perceptions 	 Costs are important, but there are several other offshoring selection factors
	 Cost advantages can quickly erode due to increasing labour costs and exchange rates
	 Decreasing profit margin & low-quality image

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

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.

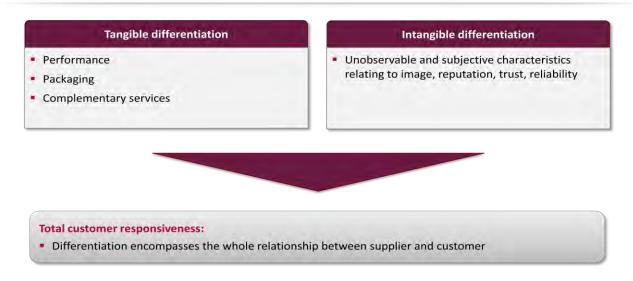


Figure 31: Tangible vs. Intangible differentiation

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

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.²⁹

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.³⁰ 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"**.³¹

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.

²⁹ Porter (1980), p. 42.

³⁰ Chan and Mauborgne (2005).

³¹ 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.

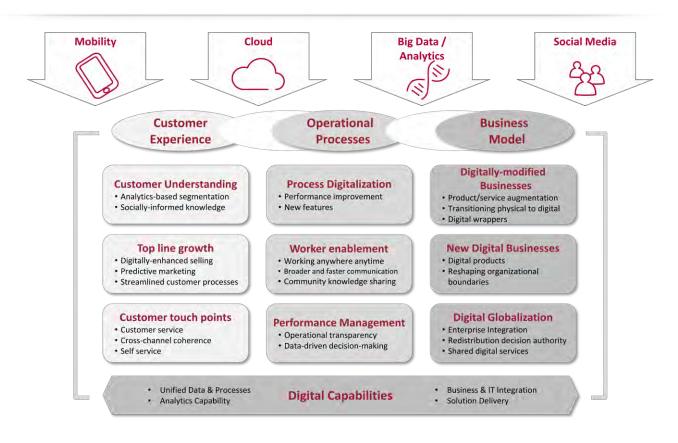


Figure 32: Digital transformation framework for the growth & portfolio strategy

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:

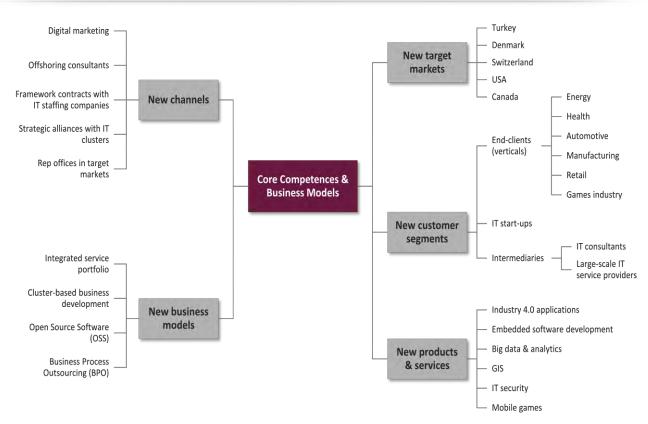


Figure 35: Growth strategy framework

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 (-)
 Higher value added in the exporting country Greater potential for profitability Innovation: software products are still the major drivers of innovation Changing market patterns and delivery models due to cloud computing and SaaS concepts Potential for bundling with services 	 Highly complex and challenging Costs for product development Requires substantial investment in marketing and after-sales services High level of management and marketing skills required (in comparison to exporting IT services) Intense competition in software product markets Existing standards and legal aspects (IP) Higher risk due to investments involved Slower market penetration
Practical	Examples
products such as communication application	ategy, focusing on exporting specialized niche s and information security software 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 (-)	
 Easier market entry Less capital investment required Risk involved is considerably lower Less competitive pressure (for specialized IT services) Entry barriers are lower Usually suppliers do not have to establish a distribution network 	 Lower value added Less potential for innovation and R&D 	
Practical Examples		
 Most prominent example: India has successfully positioned itself in several export markets by providing IT services (outsourcing/offshoring) 		
 Indian companies originally started with sho shopping) 	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:

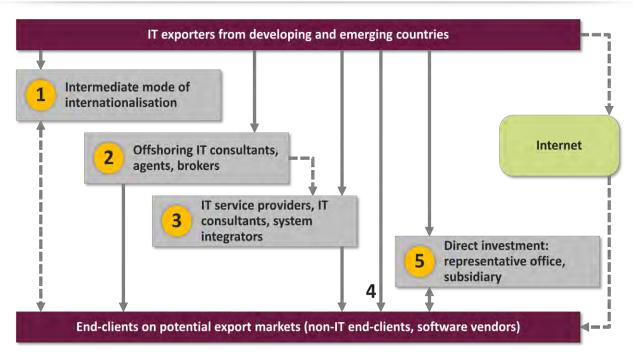


Figure 36: The five different export market entry options for the Kosovo IT industry

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

³² In the academic literature this option is also often referred to as "client followership".

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

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

Option 5: Direct invest	tment / local presence
 Establishing a local presence in the target market through direct investment Forms: joint venture, local partner, setting up a wholly owned subsidiary (representative office, fully integrated unit) 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 	
Benefits (+)	Concerns (-)
 Competitive advantage Creating additional customer value Better understanding of target markets and clients Higher customer focus and closer customer relations Better control over marketing activities and channels Sustainable market penetration Important for branding and positioning on target markets 	 Involves significant capital investment and resource allocation Comparatively high operational costs of local presence (office, local staff, etc.) Slower market penetration

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

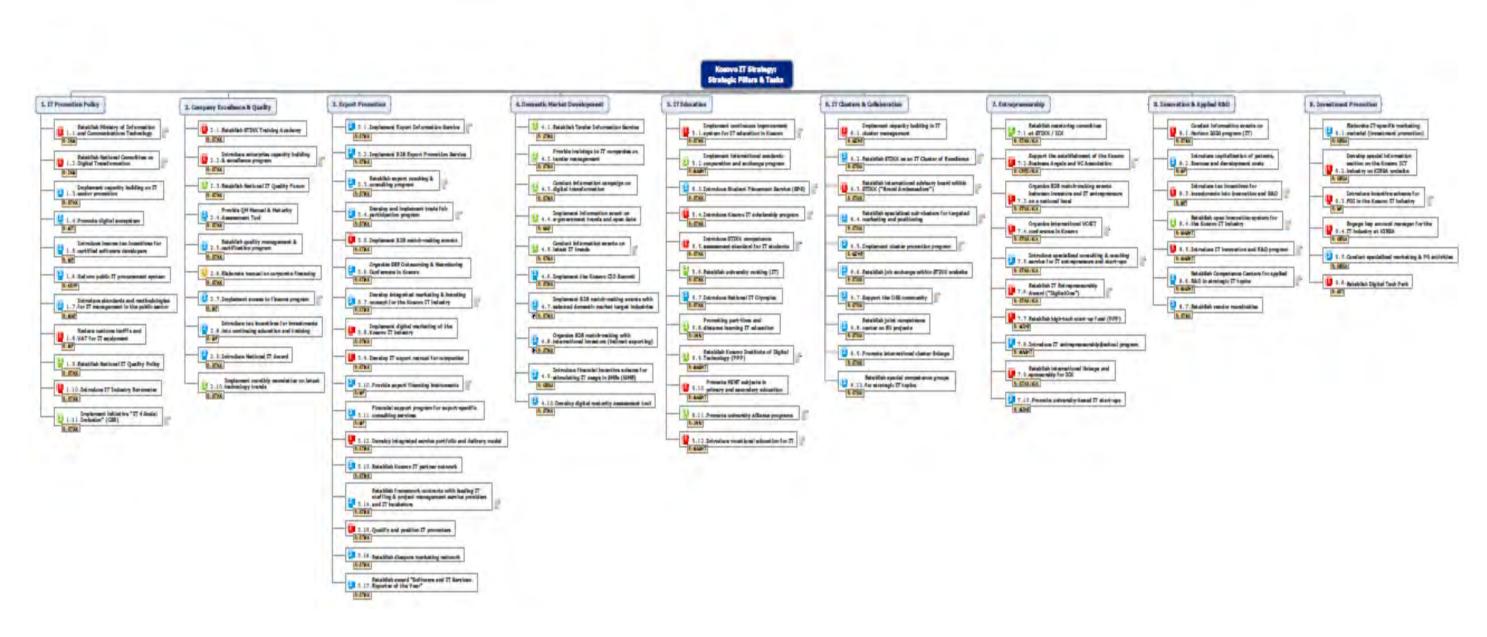


Figure 37: Strategy map with strategic pillars and tasks of the Kosovo IT Strategy

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:	 Establishing the necessary framework conditions for effective IT sector promotion in Kosovo Introducing a comprehensive IT policy Establishing an environment conducive to entrepreneurship and IT sector growth Increasing awareness about the strategic importance of the Kosovo IT industry Enhancing the visibility of the Kosovo IT industry in economic policy Building the necessary organizational structures and capabilities for IT sector promotion Introducing a quality policy
Tasks	 1.1 Establish Ministry of Information and Communication Technology 1.2 Establish National Committee on Digital Transformation 1.3 Implement capacity building on IT sector promotion 1.4 Promote digital ecosystem 1.5 Introduce income tax incentives for certified software developers 1.6 Reform public IT procurement system 1.7 Introduce standards and methodologies for IT management in the public sector 1.8 Reduce customs tariffs and VAT for IT equipment 1.9 Establish national IT Quality Policy 1.10 Introduce IT Idustry Barometer 1.11 Implement initiative "IT 4 Social Inclusion" (CSR)

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 comparatively higher than those in many Asian offshoring destinations and is likely to further increase during Kosovo's accession process to the EU, the future international competitiveness of the Kosovo IT industry will very much depend on quality and efficiency. Hence, for Kosovo, quality becomes an important source of 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:	 Increasing the international competitiveness of Kosovo IT companies
	 Introducing a mindset and infrastructure conducive to continuous learning and qualification
	 Promoting technical expertise and skills development
	 Introducing the latest management methods and know-how Promoting quality and company excellence
	 Promoting quality and company excellence Establishing a "quality culture"
	 Improving access to finance
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 promotion is of paramount importance for the development and growth of the country's IT industry. Activities need to be focused on selected target export markets. Lack of branding and international visibility has been identified by companies and public stakeholders as one of the primary obstacles to Kosovo IT exports. Therefore, a comprehensive marketing & branding concept for the Kosovo IT industry is needed, reflecting specific client requirements and key success factors in the strategic export markets. Furthermore, the specific needs of IT SMEs in terms of export promotion need to be taken into consideration, whilst strengthening their export capabilities.
Description:	 Opening up new markets and business opportunities for the Kosovo IT industry Increasing export revenues Establishing a national IT brand Positioning Kosovo on international markets Increasing the international visibility of the Kosovo IT industry Providing export-oriented support services for Kosovo IT companies Developing new product and service portfolios Developing innovative nearshoring marketing and delivery models
Tasks	 3.1 Implement Export Information Service 3.2 Implement B2B Export Promotion Service 3.3 Set up export coaching & consulting program 3.4 Develop and implement trade fair participation program 3.5 Organize B2B match-making events 3.6 Organize SEE IT Outsourcing and Nearshoring Conference in Kosovo 3.7 Develop integrated marketing & branding concept for the Kosovo IT industry 3.8 Implement digital marketing of the Kosovo IT industry 3.9 Develop IT export manual for companies 3.10 Provide export financing instruments 3.11 Financial support program for export-specific consulting services 3.12 Develop integrated service portfolio and delivery model 3.13 Establish Kosovo IT partner framework 3.14 Establish framework contracts with leading IT staffing & project management service providers and IT incubators 3.15 Quality and position IT promoters 3.16 Establish diaspora marketing network 3.17 Establish award "Software and IT Services Exporter of the Year"

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:	 Opening up additional business opportunities for Kosovo IT companies in the domestic market
	 Maximizing revenue streams from the domestic market
	 Conducting customer development and education (pull strategy)
	 Aggressively marketing the capabilities and the service portfolio of Kosovo IT companies in the domestic market (push strategy)
	 Establishing strategic industry accounts
	 Opening up the market potential of foreign investors (FDI) and their subsidiaries in Kosovo (intermediate mode of internationalization)
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)
	4.9 Introduce financial incentive scheme for stimulating IT usage in SMEs (iSME)4.10 Develop digital maturity assessment tool

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:	 Improving IT education in Kosovo Improving the qualitative and quantitative output of universities in Kosovo Aligning IT curricula with the specific needs of the private sector Fostering international academic cooperation and exchange programs Improving cooperation between the universities and the IT industry Increasing the job attractiveness of the IT industry Promoting HR excellence in the Kosovo IT industry
Tasks	 5.1 Implement continuous improvement system for IT education in Kosovo 5.2 Implement international academic cooperation and exchange program 5.3 Introduce Student Placement Service (SPC) 5.4 Introduce Kosovo IT Scholarship program 5.5 Introduce STIKK Competence Assessment Standard for IT students 5.6 Create university ranking (IT) 5.7 Introduce national IT Olympiads 5.8 Promote part-time and distance learning in IT education 5.9 Establish Kosovo Institute of Digital Technology (PPP) 5.10 Promote MINT subjects in primary and secondary education 5.11 Promote university alliance programs 5.12 Introduce vocational education for IT

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

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 and its long-term competitiveness. Special emphasis needs to be placed on providing customized support services for IT start-ups, as well as on fostering cooperation between mature IT enterprises and start-ups.
Description:	 Promoting an ecosystem and framework conditions conducive to IT entrepreneurship
	 Improving access to VC
	 Providing specialized support services for IT entrepreneurs and start-ups
	 Raising awareness about the importance of IT entrepreneurship
	 Promoting cooperation and exchange of experiences between established IT companies and start-ups
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 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:	 Promoting an environment and framework conditions conducive to innovation and applied R&D Providing advisory services on relevant support programs (e.g. Horizon 2020) Promoting cluster-based cooperation between companies and the academia Capacity building in open innovation methods and tools Awareness raising on the importance of innovation and applied R&D for the future of the Kosovo IT industry
Tasks	 8.1 Conduct information events on Horizon 2020 program (IT) 8.2 Introduce capitalization of patents licences and development costs 8.3 Introduce tax incentives for investments into innovation and R&D 8.4 Establish open innovation system for the Kosovo IT industry 8.5 Introduce IT Innovation and R&D program 8.6 Establish Competence Centers for applied R&D in strategic IT topics 8.7 Establish vendor roundtables

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 provide local IT enterprises with the opportunity to access foreign markets indirectly by becoming suppliers of MNCs. This intermediate mode of internationalization is of particular importance since Kosovo's domestic IT market is very limited.						
	Investment promotion also plays an important role with regards to international branding of the Kosovo IT industry.						
Description:	 Increasing the attractiveness of Kosovo as a destination for IT investments (FDI) 						
	• Strengthening the collaboration between KIESA and STIKK ("One Stop Shop")						
	 Developing and implementing the instruments for effective investment promotion in the IT industry 						
	 Promoting linkages between foreign investors and the Kosovo IT industry (intermediate mode of internationalization); integration into international value chains 						
	 Promoting technology transfer from international investors to the Kosovo IT industy 						
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.

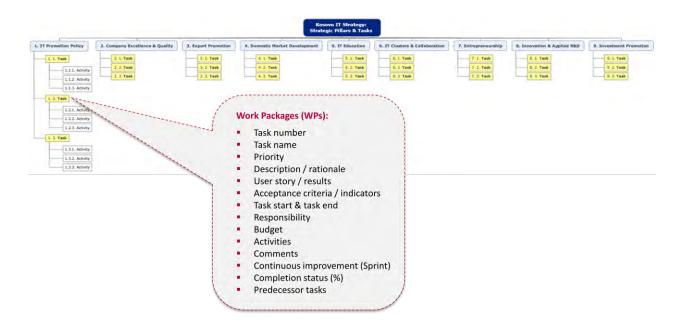


Figure 38: Structure of operational plan

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:

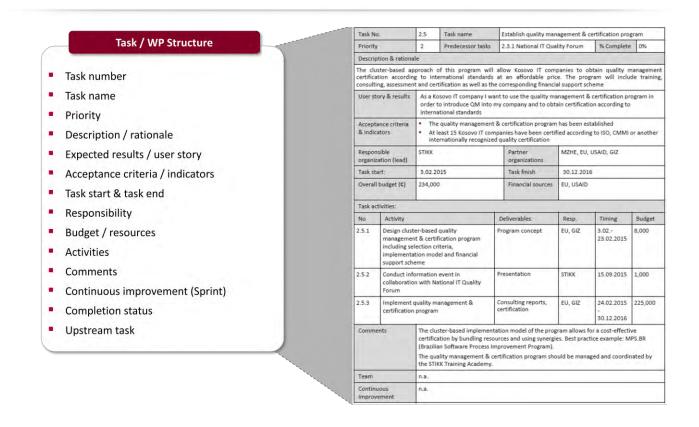


Figure 39: Description and structure of work packages

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:

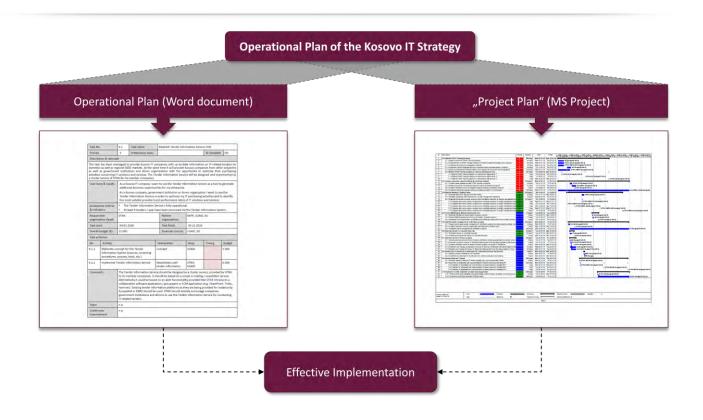


Figure 40: Key elements of the operational plan of the Kosovo IT Strategy

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 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:								
 Digital transformation 								

Task No).	1.1	Task name		stablish Ministry of 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 Kosovo I	her key stakeholders, Γ Strategy and will the								
In order a Nation National National	to strengthen al CIO within t CIO will focus I IT Promotion	the opera he Minist on topics Agency w	ational capabilities of ry as well as the estal s related to public IT r vill be to promote the s (IT sector promotion	blisl nan dev	hment of a National agement and e-gove	IT Promotio ernment the	n Agency. Whi main function	le the of the			
User sto	ory & results	and Cor	sovo IT industry stake mmunications Techno oment of the Kosovo I	olog	y in order to promot		-				
Accepta & indica	ance criteria ators	• The	ICT Ministry of Kosov	o is	fully operational.						
Respon: organiza	sible ation (lead)	ZKM			Partner 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 analysis of in	of Kosovo Iternation al structu	ion concept for the o (feasibility study, al best practices, re, functions,		plementation ncept	MZHE	n.a.	n.a.			
1.1.2			roposal for the CT Ministry of	Le	gislative proposal	MZHE	n.a.	n.a.			
1.1.3	Adopt decre of the ICT M	-	n the establishment 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 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 operatio recomm partners	getary reasons it might tage when the ICT Mi onal efficiency and cus endable to organize i ship (PPP). ctice examples:	nist stor	ry of Kosovo is fully mer orientation of th	operational e National I	. In order to ind T Promotion A	crease gency it is			

Task No.	1.1	Task name	Establish Ministry of Information and Communications Technology		
	Ministry German USA: CIC Innovati ITIDA Eg Nationa	inistry of ICT of Colombia: <u>http://www.mintic.gov.co/portal/604/w3-channel.html</u> inistry of Communications and Information Technology of Egypt: <u>http://www.mcit.g</u> ermany: National CIO: <u>http://www.cio.bund.de</u> 5A: CIO.GOV: <u>https://cio.gov/</u> novation Agency for ICT and Media of Baden-Wuerttemberg: <u>http://innovation.mfg.</u> IDA Egypt: <u>http://www.itida.gov.eg</u> ational IT Industry Promotion Agency: <u>https://www.nipa.kr/eng/main.it</u> focomm Development Authority of Singapore: http://www.ida.gov.sg			
Team	n.a.				
Continuous 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 organizat influence and impr a broad r major ch the socie In order t Committ	ng have a majo tions and peop on all areas of ovement in the range of oppo allenge becau ty at large. to use the opp ee on Digital T	or impact ple work, of an ente ne way pe rtunities i se it impa portunitie Fransform	orresponding techno on Kosovo's econom communicate and co rprise, from impact o ople collaborate with n terms of economic acts not only industry s provided by digital f nation will be establish r cooperation and coo	y an oope on co in a dev stro tran hed	nd society. Digital tec erate. On the corpora ustomer experience an organization. For l velopment and innov uctures but also gove nsformation and man l, including all relevan	hnologies are te level digita to enhanced p (osovo, digital ation. At the ernment instit age its challer nt stakeholder	changing the I tools have a p productivity in I transformatic same time it re utions, the aca nges, a Nationa s. This Commi	way how pervasive operations on provides epresents a demia and al ttee will		
	ry & results		sovo IT industry stake rmation to promote				nmittee on Dig	ital		
Accepta & indica	nce criteria tors	• The	National Committee	on	Digital Transformatic	n has been es	tablished.			
Respons organiza	ible ition (lead)	ZKM			Partner organizations	STIKK, MTI, UNIV, MASHT, ASHI, KIPA , 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 embers	MZHE	3.11.2016	1,000		
1.1.2	Transformat	National Committee on Digital nation and identify focus topics stry 4.0, e-health, e-energy,			atute; list of mmittee members	MZHE	4.11 6.11.2016	3,000		
1.2.3	-	ize meetings / workshops of nal Committee on Digital		Pro	ogram; protocols	STIKK, MZHE	8.11.2017- 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 ion and the of the Kosovo IT	Program; presentations	STIKK	3.11 14.11.2016	10,000
1.2.5	Place the IT list	industry c	n national priority	National priority list	ZKM	7.11.2016- 30.12.2018	-
Comments This task needs to be closely in strategic IT topics. It might be advisable to organ Conference on an annual bas Best practice examples: Germany: National IT Summi Colombia Digital: http://en.co				nize a National IT Confe sis to ensure public inter it: <u>http://www.it-gipfel.</u>	rence or Digita rest and suppo	al Transformati	
Team n.a.							
Continuous n.a. 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.									
	 cceptance criteria Training material and case studies on IT sector promotion have been developed and approved by STIKK. At least 15 key stakeholders (persons) have successfully completed the capacity buildin on IT sector promotion. 									
Respons organiza	ible tion (lead)	STIKK			Partner organizations	ZKM, MTI, KIESA, MZHE, KIPA, KRPP, ASHI, MASHT, UNIV, MF, MKRS, MPMS, NMFA, EU, USAID, SDC, GIZ, 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 for capacity building in IT sector promotion			aining concept; aining material	GIZ	1.12 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 / assignments; list of participants		11.12.2016	
1.3.3	Provide man promotion	ual and to	oolbox on IT sector	Manual and toolbox	GIZ	1.12.2016	-
Comments The capacity building and tra IT industry classification and a economic development, meth training, export promotion, d entrepreneurship & innovatio and case studies. The training should include p and assignments.				structural characteristic hodologies, IT strategy, omestic market develop on, industry collaboratic	s, importance o clusters and ne oment, public p on, internationa	of the IT indus etworks, IT ed procurement, al best practic	try for ucation & e examples
Team n.a.							
Continue 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 em so that I can furth			-	digital (IT indu	stry)				
	 The measures to promote the digital ecosystem have been implemented. At least 75% of the IT companies interviewed, rate the digital ecosystem with "good". 											
Responsible MTI organization (lead)				Partner organizations	MASHT, MTI, KIESA, MZHE, MF, 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 protect Intellectual Property Rights (IPR) (particularly IPR enforcement)		eva	crees / laws; aluation reports, ernational rankings	MZHE	1.01 11.02.2017	30,000				
1.4.2	Design and implement measures to stimulate the supply of venture capital (e.g. tax incentives)		De	cree	MF	1.01 30.01.2017	9,000					
1.4.3	Implement at least 3 information events on open source software (OSS) for IT companies, universities and public institutions			pre	ogram; esentations; list of rticipants	STIKK	14.01.2017 - 14.01.2018	9,000				
1.4.4			l leave (3 days / inuing education	De	cree / law	MASHT	14.01 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 - 30.12.2018	3,000
Comments Best practice example: Open Source Advisory Center Educational leave: http://www.saarland.de/doku							<u>2011.pdf</u>
Team		n.a.					
Continuo 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 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 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 organization (lead)					Partner 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 incentives fo developers		e on income tax I software	Dr	aft decree	MF	1.01 8.01.2017	3,000		
1.5.2	Adopt decre for certified		me tax incentives developers	Decree		MF	9.01 5.03.2017	-		
Comments Best practice example: In 2001 the Romanian gover companies which employ cer 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. 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 procurer	es are heavily	depende n order to	l customer of the IT in nt on public sector de increase transparenc 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	-	
 Acceptance criteria The reform of the public IT procurement system has been implemented. 75% of the IT companies interviewed rate the reformed procurement system w "good". 								with	
Respons organiza	sible ation (lead)	KRPP		Partner organizations	STIKK, MF, KIPA, ASHI, EU, USAID, 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 procuremen	-	ires for public IT	-	vised tender ocedures	World Bank	15.01 5.02.2017	15,000	
1.6.2	Provide capa procuremen		-	ma	ogram; training Iterial; list of rticipants	EU	6.02 24.04.2017	15,000	
Comments Concerning the revision of te aspects need to be taken into Interoperability Open Source Softwa Inclusion of local IT of treatment for local of Quality standards Best practice example: Promoting Local IT Sector De http://unctad.org/en/Publica					nsideration: OSS) panies (local conten panies pment Through Pub	t / local sourcin lic Procuremen	ng) / preferent	-	
Team		n.a.							
Continuous n.a. 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 ecognized standards a					-
User st	ory & results		ovo IT industry stake efficiency, interope				•	
Accepta & indic	ance criteria ators	 Met At lo reco At lo 	east 30 civil servants hodologies until the east 30 employees of ognized IT standards east 60% of all public ognized IT standards a	end Kos and IT p	of 2018. ovo IT companies ha methodologies until rojects have been im	ve been train the end of 20 plemented ad	ed in internation 18. ccording to inte	onally
Respon organiz	sible ation (lead)	ASHI			Partner organizations	KRPP, KIPA, MZHE, STIKK, EU, USAID, 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 methodolog scope, evalu	ies (descr	iption of standard,	Report		ASHI	1.10 7.10.2016	5,000
1.7.2	and training	in standa ies for pu	r capacity building Irds and blic sector IT	Pro	oposal	ASHI	8.10 23.10.2016	12,000
1.7.3	IT standards	Conduct capacity building and training in IT standards and methodologies for civil servants (at least 30 persons)			aining material; list participants	STIKK (STIKK Training Academy) / ASHI	27.10.2016 - 30.12.2018	15,000
1.7.4	IT standards	Conduct capacity building and training in IT standards and methodologies for Kosovo IT companies (at least 30 people)			aining material; list participants	STIKK (STIKK Training Academy)	24.10.2016 - 29.12.2018	15,000
Comments Best practice example: National CIO: IT Standards an <u>http://www.cio.bund.de/We</u> Standards/architekturen_stat				b/D	E/Architekturen-und	<u></u>		
Team		n.a.						
Continu 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 position	is directed at i	reducing IT indust	riffs and VAT for IT er customs tariffs and V ry. In addition to that 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- for IT equipment to reduce costs and to strengthen the competitive p company.									
Acceptance criteria & indicators The decree / law on reducing customs tariffs and VAT for IT equipment has bee adopted.						en			
Responsible M organization (lead)		MF	MF		Partner 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 f customs tariffs and VAT for nt		Le	gislative proposal	MF	1.01 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 28.04.2015	-	
Comments ⁻									
Team n.a.									
Continuous n.a. 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 & indicators	 The National IT Quality Policy has been developed and approved by STIKK. 								

Task No).	1.9	Task name	E	Establish National IT Quality Policy			
Respon organiz	sible ation (lead)	STIKK			Partner organizations	KIESA, MTI, MZHE, MASHT, EU, 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 stakeholders				orking group ember list	STIKK	2.03 4.03.2017	1,000
1.9.2	Elaborate National IT Quality Policy (analysis, objectives, measures, implementation, monitoring & evaluation)				itional IT Quality licy	STIKK	5.03.2017- 30.12.2018	12,000
1.9.3	Implement N	lational II	Quality Policy	Eva	aluation reports	STIKK	1.10.2017- 30.12.2018	100,000
Comments The National IT Quality Policy Quality infrastructur Legal framework International integra Education and traini Information and con Quality funding Quality culture			e (s ation ng	tandards, certificatio n	• · ·			
Team		n.a.	Quality culture					
Continuous n.a. 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:									
 Providing an effective and easy to use tool for monitoring and evaluating the performance of the Kosovo IT industry 									
 Obtaining accurate statistical information on the IT industry which can be used for economic planning, benchmarking and policy advocacy 									
 Obtain information 	n on huma	an resources (HR) and e	export activities in the Kosovo IT indu	istry					
 Identifying relevant 	it trends i	n the IT industry ("earl	y warning system")						
 Gathering data to 	assess the	e strategic importance	and economic impact of the IT indust	ry					
 Better understand 	ing the sp	ecific problems and ne	eds of Kosovo IT companies						
 Obtaining data for 	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 & indic	ance criteria ators	 The 	Kosovo IT Industry B	Barometer is being implemented on an annual basis.					
Respon organiz	sible 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 methodology and tool provided by GIZ to the specific needs of the Kosovo IT industry			Qı	iestionnaire	GIZ	01.01 13.06.2016	2,000	
1.10.2	Implement t Barometer o		-	Ba	sovo IT Industry rometer report d presentation	STIKK	21.04.2016 - 17.05.2018	15,000	
1.10.3	Conduct pre results of the Barometer o	e Kosovo		Pr	esentation	STIKK	15.04- 16.04.2016	3.000	
Comments The IT Industry Barometer w the implementation of the Ko Best practice example: Bulgarian IT Industry Barome http://www.basscom.org/Ra				osov eter:	vo IT Strategy.			evaluating	
Team		n.a.							
Continuous n.a. 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 & indicators	• The	initiative "IT 4 Social In	clusion" has been succ	essfully imple	mented.				
Responsible organization (lead)	STIKK		Partner organizations	IT companies NMFA, SDC, (s, MPMS, EU, US 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 el (donations, persons, etc.)	Press release	STIKK	1.05 5.05.2017	-
1.11.2	Elaborate proposal on how IT solutions could empower the elderly and people with disabilities (e.g. ambient assisted living) and serve marginalized and remote communities			Proposal	STIKK	6.05 8.05.2017	3,000
1.11.3	Design and implement special job integration program for persons with autism, including training and employment			Report	STIKK	11.05 19.06.2017	30,000
Comments The Kosovo IT industry recogn pattern recognition, precision errors. Therefore STIKK and it autistic people, particularly in trainings and coaching. For th Association of Autism in Koso Best practice examples: Auticon: http://auticon.de/er			n, logical and analytical t ts member companies w n the area of software te nis purpose, STIKK will clo ovo.	hinking and ar ill seek to crea sting and will a	n affinity to ide ite job opporte assist them wi	entify unities for th special	
Team		n.a.					
Continuous n.a. 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:										
 Identifying the specific training needs of STIKK member companies 										
 Developing a speci member companie 		ning program which is	customized to the specific needs and	d requirements o	of STIKK					
 Ensuring the sustai 	nability a	nd affordability of the	training program							
 Providing specialize 	ed technio	cal trainings for membe	er companies							
 Providing specialize 	ed manag	ement trainings for me	ember companies							
 Serving as a One-St 	top-Shop	for learning and qualifi	ication							
 Promoting skills-development, organizational learning and company excellence in the Kosovo IT industry ("Cluster of Excellence") 										

Task No		2.1	Task name	E	stablish STIKK Traini	ng Academy			
User sto	ory & results		sovo IT company I wa ove the technical and					y in order	
Accepta & indica	ince criteria ators	At leAt le	STIKK Training Acade east 6 trainings / year east 75% of training p east 3 trainers qualifie	r are barti	being implemented cipants evaluate the	with at least trainings with	15 participants "good" or "ex	cellent"	
Respons organiza	sible 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 Academy	velop concept for STIKK Training ademy			ncept for STIKK aining Academy	GIZ	1.01 25.03.2016	3,000	
2.1.2	 Implementation of STIKK Training Academy concept including the following core processes: Definition of IT qualification profiles Training needs assessment Development of training program 			IT qualification profiles, training needs assessment, training program		STIKK, GIZ	26.03 30.12.2016	20,000	
2.1.3	Implement t trainings	mplement technical and management rainings			aining program, ining material, aluation forms	STIKK, NMFA, GIZ	26.03 30.12.2016	110.000	
2.1.4			nguage training in achlehrzentrum		aining program, aluation reports	GIZ	3.11.2016- 30.10.2017	5.000	
2.1.5	Develop and trainers (ToT Training Aca) progran	nt train the n for the STIKK		rainers qualified / rtified	STIKK, NMFA	1.01 30.12.2017	20.000	
2.1.6	Market STIKI national and		; Academy on level	Ma	arketing material	STIKK, GIZ	20.02.2016 /20.02.201 7/22.02.20 18	3.000	
Comme	nts	LiveMee with uni (MOOC) IT comp framewo training Please n	K Training Academy eting, WebEx, adobe versities in Kosovo as such as Coursera, ec anies as well as to th ork of task 3.1 "Imple program. ote: The concept of t rity and sustainability cts.	conr s we IX or e ac emer the S	nect or other tools; s Il as with providers o r Open HPI; training o ademia; technology nt Export Information	trategic allian of Massive Op courses should and market tr n Service" nee my is based o	ces should be o en Online Courd d be also open ends identified ed to be reflect n the principle	established rses to externa d in the red in the s of	
Team		n.a.							
Continu 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 capacity services manage	ies to further d building & exc	levelop th cellence p such as o elected IT	ment of the Kosovo N eir capacities and to rogram will provide a perations, finance, qu enterprises sovo IT company I wa	inci coi ualit	rease their internatio mbination of speciali ty, marketing & sales	nal competitiv zed training, c , etc. The prog	veness. The en oaching and co ram will focus	terprise onsulting on the
0301 30	ory deresuits		n so that I can improv					
 Acceptance criteria The enterprise capacity At least 10 Kosovo IT co building & excellence p 					nies have successfully		-	apacity
Responsible STIKK organization (lead)					Partner organizations	MZHE, MTI, (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 member con		ment with STIKK	Ne	eds assessment	STIKK, GIZ	1.12.2016- 27.02.2017	5,000
2.2.2	 Develop concept for the enterprise capacity building & excellence program including selection criteria, focus areas, methods and tools and delivery model. Focus areas should include: Corporate strategy Managing people (HR management) Finance & accounting Operations (organization, project management, process management) Quality management IT management Entrepreneurship & innovation Marketing & sales 			list en in	eds assessment, with IT terprises enrolled the program	GIZ, NMFA	2.03 28.04.201 7	30,000
2.2.3			event on enterprise cellence program	pre	esentation	STIKK	15.05.201 7	1,000
2.2.4 Implement enterprise capacity building & excellence program (15 companies)					nsulting reports, aluation reports	GIZ, NMFA, USAID	1.06.2017- 30.12.2018	300,000
Comme	ents	specializ as well a coordina would ta	erprise capacity build ed training, coaching s individually. The pr ation with the activition ke companies appro- companies (pilot pro-	ano ogra es c xim	d consulting services am should be manag if the STIKK Training i ately 1 year. Calculat	which will be ed by STIKK in Academy. Com ions are based	delivered clust order to ensu pleting the pr l on a first coh	er-based e close ogram 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 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 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 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 ality-related topics s		-			
			architectures throug					i, training:
User st	ory & results	informa	sovo IT industry stake ation on quality mana IT industry					ality in the
Acceptance criteria & indicators The National IT Quality I MoUs with at least 3 int At least 3 information er topics conducted / year			Js with at least 3 inte east 3 information ev	rna	tional IT quality man	agement insti	tutions signed	agement
Respon organiz	nsible zation (lead)	STIKK			Partner organizations	Universities, Ministry of Economic 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 STIKK	lational IT Quality Forum with		co res	ganizational ncept (members, sponsibilities, ogram)	STIKK, GIZ	01.01.2017 - 02.02.2017	2,000
2.3.2			peration with international nagement institutions		oUs	STIKK, GIZ	04.02- 10.02.2017	3,000
2.3.3	Organize information events, seminars and roundtable sessions on quality management topics in close cooperation with the STIKK Training Academy		Programs and presentations		STIKK, NMFA, GIZ	7.01.2017 /15.05.201 7 /15.09.201 7 /	7,000	

Task No.		2.3	Task name	Establish National IT C	IT Quality Forum			
						7.01.2018 / 16.05.2018 / 16.09.2018		
Comments	Mellon University, ISTQB, ISC				tion partners: Software Engineering Institute (SEI) of Carnegie IEC JTC1 Joint Technical Committee. Forum of NASSCOM: http://www.nasscom.in/overview-4.			
Team		n.a.						
Continuous 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 nem with an overview 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				•				
	 The QM Manual and the member companies 				turity Assessment To	ol have been o	disseminated t	o STIKK	
Responsible STIKK organization (lead)				Partner 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 generic versi		l (customization of	QN	/ Manual	GIZ	09.06 15.06.2017	2,000	
2.4.2	Develop Mat (customizati		essment Tool eric version)	Ma To	aturity Assessment ol	GIZ	16.06 30.06.2017	2,000	
2.4.3 Presentation and dissemination of QM Manual and Maturity Assessment Tool 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 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 rnational standards ification as well as th	at	an affordable pric	e. The progra	am will includ	
User story & results As a Kosovo IT company I order to introduce QM in international standards								ogram in
Acceptance criteria & indicators At least 15 Kosovo IT of internationally recogn					nies have been certif			or another
Respon: organiza	sible ation (lead)	STIKK			Partner 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 ection cri tion mode	cation program	Pro	ogram concept	EU, GIZ	3.02 23.02.2017	8,000
2.5.2	Conduct info collaboration Forum		event in tional IT Quality	Presentation		STIKK	15.09.2017	1,000
2.5.3	Implement of certification		inagement &		nsulting reports, rtification	EU, GIZ	24.02.2017 - 30.12.2018	225,000
Comments The cluster-based implement certification by bundling res (Brazilian Software Process) The quality management & the STIKK Training Academy		tion by bundling reso n Software Process Ir	npr	es and using synergio ovement Program).	es. Best practio	e example: M	PS.BR	
Team		n.a.	0					
Continu 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 ort facilities and relev		vo IT companies wi institutions	ith a guidelin	e on corporat	e financing	
User sto	ory & results				to use the manual on obtain financing for		ancing in orde	r to find	
Acceptance criteria & indicators• The manual on corporate financing has been elaborated • The manual on corporate financing has been disseminated to STIKK member companies						companies			
	Responsible STIKK organization (lead)				Partner 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 ancing	EU	1.10 30.12.2016	8,000	
2.6.2	Present and corporate fir		disseminate manual on 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. 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							
 This task will provide Kosovo IT companies with access to finance based on several key elements including: Special grants for training & certification Kosovo IT Enterprise Development Fund with special, low-interest loan schemes 								
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 & indicators	At le certThe	 At least 3 companies have successfully applied for special grants for training & certification The Kosovo IT Enterprise Development Fund is fully operational 						
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 training & certification (including application documents, terms and conditions)			Pr	oduct description	EU, MTI	12.01 19.01.2017	8,000
2.7.2	2.7.2 Elaborate concept for Kosovo IT Enterprise Development Fund (including application documents, terms and conditions)			Concept for Kosovo IT Enterprise Development Fund		EU, USAID	20.01 28.01.2017	8,000
2.7.3	Conduct info finance prog companies		event on access to cosovo IT	Pr	esentation material	STIKK	29.01.2017	1,000
2.7.4		training &	ge special grant & certification grants)		pplication ocuments	EU, MTI	30.01.2017 - 30.12.2018	150,000
2.7.5		blish and manage the Kosovo IT prprise Development Fund (including get for Fund)			pplication ocuments	EU, USAID	24.04.2017 - 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. 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 & indicators		 Tax incentives for investments into continuing education and training have been implemented 						
Responsible organization (lead)	MF	VIF Partner STIKK, NMFA, GIZ 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 incentives			Concept / draft	NMFA	02.02 06.02.2017	3,000		
2.8.2			ves for investments tion and training	law / decree	Ministry of Finance	9.02 29.05.2017	-		
Comme	nts	-							
Team	Team n.a.								
Continuous n.a. 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 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 & indicators • At least one article or news coverage in one of Kosovo's leading media (newspaper, magazine, TV) / year.						oaper,		
Responsible STIKK organization (lead)					Partner 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 including log criteria		ational IT Award nd selection	Со	ncept	STIKK, MZHE	1.12 5.12.2016	2,000
2.9.2	9.2 Selection of candidates and implementation of award ceremony including PR		Article / news coverage		STIKK, MZHE	08.12.2016 / 08.12.2017 / 08.12.2018	9,000	
Comments The focus concerning the self excellence (particularly HR m The National IT Award should governmental as well as med IT Award logo for marketing				ana l be ia p	gement) and quality. awarded in the fram resence. The winner	ework of an o should be ent	fficial event wi	th high

Task No.	2.9	Task name	Introduce National IT Award
Team	n.a.		
Continuous 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 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 organization (lead)					Partner 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 cture, template,	Technology newsletter concept		STIKK, GIZ	01.09 07.09.2017	2,000
2.10.2	Implement technology newsletter (monthly basis)		y newsletter	Monthly newsletters		STIKK	08.09.2017 - 30.12.2018	15,000
Comments A professional newsletter ed and the newsletter should b newsletter should be also in			e de	signed as a STIKK ser	vice; at a later			
Team		n.a.						
Continu 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 conduct planning The Expo Pro info Ser Kee war Pro ma User sto	nformation or professional r and impleme ort Informatio viding Kosovo ormation on p ving as a mark ping compani rning system" viding market rketing) ry & results	n potentia market re enting the n Service IT compa otential e cet intellig des informat As a Kos potentia plannin	im-sized IT/software of al export markets. Oft search on internation ir export activities. (EIS) of STIKK will add anies (particularly STIF xport markets gence tool for IT firms hed on latest technolo ion for strategic plant sovo IT company I wa al export markets (ma g and implementing n	en al r lres KK r nors nors nors nors nors 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 firms need th n objectives of with detailed, rends on intern arketing activit urate and up t t I have the ne tivities.	or the capabilit is information this cluster se accurate and national marke ies of STIKK (c o date informa ecessary inform	ies to for ervice are: up to date ets ("early luster ation on	
 Acceptance criteria The Export Information Service has been successfully implemented by STIKK 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) 									
Respons organiza	ible tion (lead)	(lead)			Partner IPAK, GIZ, NMFA 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 28.01.2016	3,000	
3.1.2.	Implement 1	the EIS			market analysis for CH, NO, UK, NL	GIZ, NMFA	01.01.14- 30.12.201 8	20,000	
3.1.3	Develop and Customer Si	-	ent Export mary research)		uestionnaire, pert database	GIZ	2.06 31.12.201 6	7,000	
Comments Primary export target market also have access to market i use it for export promotion interrelated with the Export		ve access to market in or export promotion a	tel ctiv	igence / market ana 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 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 Genu Pron Mari expo Prov thro Supp	erate additiona note cooperati keting and pos ort promotion iding market in ugh the requir porting potent	g and inte al busines ion betwe itioning c activities ntelligenc ement pr ial interna	ice (EPS) will be desi rnational business de s opportunities and l een STIKK member co f STIKK and its memb e on demand structu ofiles stated in the bu stional clients in iden s (One-Stop-Shop for	evel busi ompoer f ires, usin tifyi	opment. The main o ness leads for STIKK anies and internation irms on internationa technical requireme ess leads ng suitable cooperat	bjectives of th member comp nal business pa Il target marke ents and trends	e service are: panies artners ets through dire s in target mar	ect B2B kets
User story & results As a Kosovo IT company I we business development so to company and increase export Acceptance criteria & indicators - At least 6 international STIKK member company					can establish interna iles. Service has been suc	tional busines	s partnerships emented by ST	for my KK
		 At let 	ast 2 contracts / yea	r ar	e signed by STIKK me	mber compan	ies based on th	ne EPS
Responsible STIKK organization (lead)				Partner organizations	KIESA, GIZ, N Chambers of	IMFA, SDC, USA 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 9.05.2016	4,000
3.2.2	Capacity bui manager)	Iding for S	TIKK (service	Tra too	aining documents, ols	GIZ, NMFA	1.10 28.11.2016	2,000
3.2.3	Establish a C and managir		m for generating ss leads	CR	M system	GIZ, NMFA	15.10 28.11.2016	4,000
3.2.4	Establish STI (CPF) for fina		r Promotion Fund EPS		F framework reement signed	STIKK, GIZ	1.10 3.10.2016	1,000
3.2.5	Marketing a	ng and positioning the EPS		Ma	arketing material	STIKK, GIZ	12.05 31.12.201 6	4,000
3.2.6	Implementin	Implementing the EPS			least 5 business ds / year	STIKK, GIZ, NMFA	12.05.201 6- 30.12.201 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 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 Promotio delivered	services on h on Service wh d individually o	ow to inc iich are c on the en	rease their exports. luster-based service	Con s of	I provide Kosovo IT trary to the Export I STIKK, the export o program will allow	nformation Se coaching & co	ervice and the onsulting prog	B2B Expor ram will be
User sto	ory & results		I can further improve		o participate in the e export capabilities i			
Acceptance criteria & indicatorsThe export coaching & operational)At least 5 Kosovo IT con consulting program								
Responsible STIKK, MZHE organization (lead)				Partner KIESA, GIZ, NMFA 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 y and too t business rket acces	he export coaching including Is (admission, plan, capacity ss & business	EC	CP concept	GIZ	15.01 11.02.2017	8,000
3.3.2	Capacity building for STIKK (service manager)		Training documents, tools		STIKK, GIZ, NMFA	12.02 25.02.201 7	2,000	
3.3.3	Implementing the export coaching & consulting program			aluation forms of IT mpanies	STIKK, GIZ, NMFA	26.02.201 7- 30.12.201 8	80,000	
Comme	nts	admissio	on criteria need to be	def	viding coaching and c ined; a certain perce 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 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 As a Kos	tional visibility and bi	rand ant f	T industry I want to p ding of the IT industry to participate in relev ment.	/.			
Acceptance criteria & indicators• Trade fair participation p • At least 5 Kosovo IT com • At least 2 contracts gene					es have participated	-			
Responsible STIKK organization (lead)					Partner 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 program incl		articipation ancing scheme		ade fair rticipation program	STIKK, KIESA, GIZ	1.04 4.04.2016	2,000	
3.4.2	Implement t managemen	-	n trade fair iness development	Tra	aining material	STIKK, GIZ	7.04 14.04.2016	3,000	
3.4.3	Implement trade fair participation program		fro	aluation forms om trade fair rticipations	STIKK, KIESA	20.01.201 7- 30.12.201 8	75,000		
Comme	Comments Selection of relevant trade fa industry; well-balanced mixt and smaller specialized trade			ıre	of large-scale interna	tional trade fa	irs (e.g. CeBIT		
Team		n.a.							
Continuous n.a. 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 concrete business op iternational cooperat	ороі	rtunities for Kosovo I	T companies.	Furthermore, s	
User sto	ry & results		sovo IT company I wa ith potential clients, o sales.			-		
 Acceptance criteria At least 6 B2B match-m markets (DACH, NO, Uk At least 1 B2B match-m with Norwegian and Ge 					; event has been con			-
Responsible STIKK organization (lead)					Partner organizations	KIESA, NMFA SDC, WKO, U	, GIZ, German SAID, EU	Embassy,
Task start: 1.10.2016				Task finish	5.12.2018			
Overall budget (€) 54,000				Financial sources	KIESA, NMFA, GIZ, German Embassy, SDC, WKO, USAID, EU			
Task act	ivities:							
No	Activity			De	eliverables:	Resp.	Timing	Budget
3.5.1	Organize and match-makir	-	ent at least 6 B2B	pre pa	ogramme, esentations, list of rticipants, aluation forms	STIKK, KIESA	3.10.2016 / 1.05.2017 / 2.10.2017 / 2.05.2018 / 31.10.2018 / 5.12.2018	42,000
3.5.2	Organize and implement at least 1 B2B match-making event in Kosovo in close cooperation with Norwegian and German partners (trilateral match- making event with Norwegian, Kosovo and German companies; focus topics: e.g. e-energy, nearshoring, OSS, etc.)			pre pa	ogramme, esentations, list of rticipants, aluation forms	STIKK, NMFA, GIZ	01.10 10.10.201 6	12,000
Comme	nts		Combination with KC vith relevant trade fa					-
Team		n.a.						
Continuous n.a. Improvement		n.a.						

5.1.3.6. Organize SEE Outsourcing & Nearshoring Conference in Kosovo

Task No		3.6	Task name		Drganize SEE Outsour 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 Europe) in order to i 5.						
User story & resultsAs a stakeholder of the Kosovo IT industry I want to participate to position and mark Kosovo as a leading outsourcing destination within Europe.As a Kosovo IT company I want to participate in the SEE Outsourcing & Nearshoring Conference in order to establish international business partnerships, find potential r clients and to increase my exports.						ng			
Acceptance criteria• SEE Outsourcing & Near& indicators• At least 3 outsourcing c					-				
Responsible STIKK organization (lead)				Partner organizations	MZHE, KIESA, NMFA, GIZ, SDC, WKO, 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 & nce (program, nancing)		ncept for nference	STIKK, GIZ	01.05 07.05.2017	3,000	
3.6.2	Implement S Nearshoring		-	Pro	ogram, report	STIKK	01.10 22.10.2017	60,000	
Comments The SEE Outsourcing & Nears initial event could be implem IT Project) and USAID					-				
Team		n.a.							
Continuous n.a. Improvement									

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

Task No		3.7	Task name		Develop integrated m Kosovo IT industry	arketing & bra	anding concep	t for the	
Priority		2	Predecessor tasks		-		% Complete	0%	
Descript	ion & rational	е					•		
as one of the Koso	^t the primary o vo IT industry	obstacles is neede	c analysis, lack of bra to Kosovo IT exports d, which integrates a success factors of str	. Th ll ne	erefore, a comprehe ecessary elements of	nsive marketii	ng & branding	concept for	
& branding concept so that export markets. As a Kosovo IT company I w support for my company's i					r of the Kosovo IT industry I want to have a suitable marketing I can effectively promote the Kosovo IT industry on strategic ant to use the marketing & branding concept as a guideline and ndividual export marketing activities.				
Accepta & indica	nce criteria tors	 Mar 	grated marketing & b keting & branding ma ıstry ("IT Business Paı	ater	ial elaborated: Logo,		ntation of the	Kosovo IT	
Responsible STIKK organization (lead)				Partner 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 gy, opera eting, 6 Ps	ategic marketing, tional marketing & , marketing		egrated marketing branding concept	STIKK, GIZ	2.02 27.02.2017	10,000	
3.7.2		, presenta	& branding material ation of the Kosovo		go, slogan, esentation	STIKK, GIZ, NMFA	2.03 28.04.2017	10,000	
Comments The integrated marketing & b other tasks in the area of exp Best practice example: Brasil IT+: http://www.brasili		ort	promotion and mark	eting the Kosc					
Team		n.a.							
Continuous n.a. 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 branding concept	eting &	% Complete	0%
Descrip	tion & rational	е						
industry the Koso The web investing proposit	Based on the vo IT industry site will serve g into the Koso ion and key b	results o will be im as a lan wo IT indu enefits, c	ting is a useful and f Task 3.7 Integrated plemented, includin ding page / one-stop ustry. Hence, the wel ompany profiles and n-making service) and	l ma g we o-sh osite ser	arketing & branding ebsite, SEO, social mo op for companies in e will include informa vice offerings, interr	concept, digita edia integratio terested in ou ation on the Ko	al marketing m n and YouTub tsourcing to k psovo IT indust	neasures for e video. Cosovo or in cry, its value
User story & results As a Kosovo IT company I w marketing instrument so th joint marketing and brandir As a Kosovo IT industry stak the industry online. As a potential client I want industry and suitable outso					an present my comp oproach. Ider I want to use the se the website to obt	any to potenti e website for n ain informatio	al clients base narketing and n on the Kosov	d on a branding
Acceptance criteriaThe website and the d& indicatorsThe website achieves					-		I	
Responsible STIKK organization (lead)				Partner 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 pecification for the arketing tools		ncept, functional ecification	STIKK	30.04 6.05.2017	5,000
3.8.2	Prepare tend tender	ler docun	nents and conduct	ev	nder documents, aluation cuments	STIKK	7.05 11.05.2017	3,000
3.8.3	media integr developmen	ation (inc t); condu	implement social Iuding content ct SEO and linkage ebsites and portals		ebsite, google alytics reports	STIKK	8.05 4.06.2017	10,000
3.8.4	Develop You industry for		eo on the Kosovo IT eting	Yo	uTube video	KIESA	7.05 27.05.2017	8,000
Comme	nts	website Best pra Outsour Brasil IT	site could be develop KIESA and a future I ctice examples: cing to Russia: <u>http:/</u> +: <u>http://www.brasil</u> c need to be closely c on.	CT N /ww	Ministry or Agency sh vw.outsourcingrussia us.com/brasilit/Ingle	iould be closel i.com/ 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 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 upport programs, ins				duct IT expor	ts and with	
User sto	ry & results		sovo IT company I wa ities of my company.	ant 1	to use the IT export n	nanual in orde	r to improve t	he export	
 Acceptance criteria & indicators The IT export manual has companies At least 30% of STIKK m activities 									
Responsible STIKK organization (lead)			Partner 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 26.03.2017	11,000	
3.9.2	Present the I disseminate				esentation of IT 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. 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 my export activities.	int t	to have access to spe	cial financing	instruments so	o that I can			
Accepta & indica	nce criteria tors	At le instrAt le	cial export financing in east 15 Kosovo IT com ruments east 10 Kosovo IT com it insurance	npar	nies have successfull	y applied for e		-			
Respons organiza	sible 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 export credit sovo IT industry	an coi ap	oduct description d implementation ncept including plication cuments	MF	05.01 22.01.2017	10,000			
3.10.2	(export loan	schemes,	ng instruments export credit sovo IT industry		esentation of IT port manual	MF	23.01.2017 - 30.12.2018	200,000			
Comments The export financing instrum period should be at least 3 y and instruments from devel- used for this task.					. It needs to be clarif	ied whether sp	pecial support	schemes			
Team		n.a.									
Continuous 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 s in order to increase th				nsulting		
Acceptance criteria & indicators	 At let 	ncial support program east 5 Kosovo IT compa sulting services (starting	nies / year are receivin	g financial sup				
Responsible organization (lead)	Ministry of Finance Partner organizations KIESA, Ministry of Economic 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 export-specific consulting services		Implementation concept including application documents		MF	2.03.2017- 20.03.2017	5,000	
3.11.2	-		upport program for ting services	-	proved plications	MF	23.03.2017	25,000
Comments This task is supposed to prov specific consulting services, o Companies need to fulfil elig be based on a cost-sharing m the expenses.				once bilit	donor support for ta y criteria defined for	ask 3.3 is no lo task 3.3. The	nger available support progr	am should
Team n.a.								
Continuous n.a. 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 export cli range of t Thus, STI ranging f	ing) by integra ents will get a technologies a KK becomes a rom IT consul	ating the access to and progr a one-sto ting, desi	the notion of creatin different capabilities a large pool of qualifi amming languages, a p-shop providing an i gn and specification quality and efficienc	and ed a t pr nte to d	d resources of STIKK and experienced IT sprices which are consid grated portfolio of o coding and testing. A	member comp becialists, who derably below ffshoring servi t the same tin	anies. Thereby are able to co Western Europ ces ("turnkey ne, an innovati	y, potential ver a broad bean levels. 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 & indica	nce criteria tors	The of theThe	ntegrated service por service portfolio and ne Kosovo IT industry service portfolio and nts (conference, B2B)	del del	ivery model has beer ivery model has beer	n included into	the marketing			
Respons organiza	ible tion (lead)	STIKK			Partner 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 companies	lels of STI	KK member	results of analysis		12.09.2016	
3.12.2	Needs assess markets (cus		strategic export quirements)	Presentation with results of analysis	GIZ	15.09 30.09.2016	3,000
3.12.3	Analysis of re and internat		ncepts, models practices	Presentation with results of analysis	GIZ	1.10 14.10.2016	3,500
3.12.4	Developmen portfolio and	-	rated service model	Implementation concept	GIZ	15.10 28.11.2016	7,200
3.12.5	Implementat portfolio and		egrated service model	Marketing material	STIKK, GIZ	1.12.2016 - 30.12.2018	15,000
Comments This task should be designed export promotion service". The integrated service portfor differentiate the Kosovo IT in			lio and delivery model	should be used	·		
Team		n.a.					
Continuous n.a. 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 network (IT associat 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 & indica	nce criteria tors									
Respons organiza	ible ition (lead)	STIKK			Partner 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 - 29.12.2018	5,000		
3.13.2	Link STIKK website to partner websites Links STIKK 3.03.2016 - 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 vo IT partner partners into CRM	Newsletter	STIKK	7.01 8.01.2017 / 1.04 2.04.2017 / 1.07 2.07.2017 / 7.10 8.10.2017 / 6.01 7.01.2018 / 6.04 7.04.2018 / 6.07 7.07.2018 / 5.10 6.10.2018	3,000
Comme	nts	-					
Team	Team n.a.						
	Continuous n.a. 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 & indicators	and • At le	east 3 framework contra IT incubators signed east 3 business leads ge ect management servic	nerated based on the	framework co	•					
Responsible organization (lead)	STIKK		Partner 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 affing & project t service providers		Signed framework contract	GIZ	3.11 18.11.2016	5,000		
3.14.2	-	grate IT staffing & project nagement service providers into CRM em		Profiles in CRM system	STIKK	19.11 20.11.2016	1,000		
3.14.3	Generate at	least 3 bu	isiness leads	Business leads	GIZ	24.11 12.12.2016	3,000		
Comme	nts	Export P	•	ented in close collabo ossible cooperation pa up.					
Team		n.a.							
Continuous n.a. 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 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 & indicators • At least 10 trade attaches of Kosovo's embassies and consulates have been trained in order to promote the Kosovo IT industry abroad								ained in
Respon: organiza	sible ation (lead)	STIKK			Partner organizations	Ministry of F NMFA, MZH	oreign Affairs, 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 arketing material	GIZ	1.06 30.07.2017	8,000
3.15.2	Implement t for IT promo	•	nd capacity building		aluation report of aining	GIZ	1.10 30.11.2017	2,000
Comme	nts	Annual r building	meeting of trade atta	che	s in Prishtina should	be used for tra	aining and cap	acity
Team		n.a.						
Continu 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 eeds to be closely inte					n important
User sto	ry & results	contact As a Ko	sovo IT company I wa s for business develo sovo IT industry stake g and positioning of	pm ehol	ent on export market der I want to use the	ts.		
 Acceptance criteria & indicators The diaspora marketing network has been successfully established by signing MoUs between STIKK and the diaspora organizations At least 3 business leads generated based on the diaspora marketing network 								
Respons organiza	ible ition (lead)	STIKK			Partner organizations	Ministry of F 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 and sign Mo organization	Us with d	rketing network iaspora		tabase with key ntacts, MoUs	STIKK, GIZ	1.12.2016 - 16.06.2017	3,000
3.16.2					ofiles in CRM stem	STIKK	17.06 30.06.2017	1,000
Comme	nts	been est	al countries diaspora ablished. These orga tion with STIKK.	-				
Team		n.a.						
Continuous n.a. Improvement								

5.1.3.17. Establish award "Software Exporter of the Year"

Task No.	3.17	Task name	Establish award "Software and IT Se 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 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 e awareness of the p			
Accepta & indica	nce criteria tors		ast one article or ne azine, TV) / year.	ews (coverage in one of Ko	osovo's leadii	ng media (news	paper,
Respons organiza	ible ition (lead)	STIKK			Partner 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 ne Year" including on criteria	Co	ncept	STIKK	3.11 12.11.2016	2,000
3.17.2	Selection of implementation	tion of aw	s and ard ceremony	Article / news coverage STIKK, KIESA 3.11.2017 / 3.11.2018 6,000				
Comments The award "Software and IT framework of an official eve winner should be entitled to promotion purposes.				nt w	ith high government	al as well as i	media presence	. The
Team		n.a.						
Continuous n.a. 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 nal business opportuni	t to use the Tender Information Serv 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 Tender Information Service in order to optimize my IT purchasing activities and to identify the most suitable provider (cost-performance ratio) of IT solutions and services.									
Acceptance criteria & indicators	 The Tender Information Service is fully operational. At least 5 tenders / year have been processed via the Tender Information System. 								

Task No	0.	4.1	Task name	E	Establish Tender Info	rmation Servio	ce (TIS)	
Respor organiz	nsible zation (lead)	STIKK			Partner 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 mation System (sources, screening edures, process, tools, etc.)			ncept	USAID	4.01 13.01.2018	5,000
4.1.2	Implement T	ender In	formation Service		ewsletters with nder information	STIKK, USAID	14.01 30.12.2018	6,000
Comments The Tender Information Serv to its member companies. It Alternatively it could be base collaborative software applic Yammer). Existing tender inf EuropeAid or EBRD should be government institutions and IT-related tenders.					uld be based on a sin n an alert functionali on / groupware or EC ation platforms as th ed. STIKK should acti	nple e-mailing ty provided th M application ley are being p vely encourag	/ newsletter s at STIKK introd (e.g. SharePoi provided for in e companies,	ervice. duces a nt, Trello, stance by
Team		n.a.						
Continuous n.a. 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 & indicat	nce criteria tors	beer	nder management tra n elaborated. east 30 companies ha				-		
Respons organiza	ible tion (lead)	STIKK			Partner 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 irkets), ba	ations concerning cus on regional and sed on insights mation System	list of most relevant organizations in terms of IT-related tenders		6.11.2017	
4.2.2	program (ker tender proce technical pro	lop tender management training ram (key topics: tender evaluation, er procedures and requirements, nical proposal writing, elaborating cial proposals, forming consortia)		Training program	USAID, EU	9.11 27.11.2017	9,000
4.2.3	Conducting t trainings (at		•	List of participants; evaluation sheets	USAID, EU	30.11.2017 - 16.08.2018	9,000
Comme	nts		ler management trai Academy (see Task 2	ning should be integrat 2.1).	ed into the pro	ogram of the S	ГІКК
Team		n.a.					
	Continuous n.a. 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 social media. While the felt, it is particularly re- operations as well as f same time, digital trans For Kosovo's economy productivity, enhance Thus, the main goal of and the potential of di win situation for both,	ransforma ere is alm levant for or the ove sformatic digital tra- competiti this task gital trans the Koso idustries ind 2):	ation are mobile compu- ost no area within a co r functional areas such erall business model (d on requires specific tecl ansformation is of para iveness and boost busin is raising the awarenes sformation. At the very vo IT industry as well a	ustries and organizational functions. uting / mobility, cloud computing, big mpany where digital transformation as marketing and sales ("customer ex- igitally-modified businesses, new digi- nnical know-how and new capabilitie mount importance, enabling compar- ness growth and innovation. s of other sectors of the Kosovo econ- heart of this task stands the notion t s for the other sectors of the econom- ts on the domestic market have been and the sectors of the econom- ter of ter of the sectors of the econom- ter of ter	data / analytics has not made it xperience") and ital businesses). s. nies to improve nomy on the imp hat this will creation.	and s impact At the portance ate a win-
User story & results	transfo As a Ko digital t	rmation in order to ope sovo company from th	t to participate in the information ca en up new customer segments on the e non-IT sector I want to participate i I can learn about how to use digital to of my enterprise.	e domestic mark n information e	et. vents on

Task N	0.	4.3	Task name	0	Conduct information	campaign c	on digital transfor	mation	
Accept & indic	ance criteria cators		east 100 companies f icipated in information					et have	
Respor organiz	nsible zation (lead)	STIKK			Partner 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 areas of app	Elaborate presentation on digital transformation (trends, technologies, areas of application, best practice examples, etc.)		Pre	esentation	GIZ	2.03 11.03.2017	5,000	
4.3.2		formation	e examples of from Kosovo s)	Pre	esentation	STIKK	12.03 17.03.2017	3,000	
4.3.3	Develop vide transformat		ouTube) on digital	Vio	deo-clip (YouTube)	USAID	12.03 25.03.2017	9,000	
4.3.4	Conduct at l digital transf companies f industries (s	formation rom selec	ted target	Lis	t of participants	STIKK	18.03.2017 - 30.12.2018	6,000	
Comments The focus of the information social media integration, so Computing (laaS, PaaS, SaaS				ial C	RM, e-commerce, m	obile apps,	e-recruiting, ECN		
Team		n.a.							
	Continuous n.a. 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 This task will promote 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 IT industry with regards to the development of corresponding IT applications (e.g. based on open data). This task will promote awareness raising on e-government trends and open data and thus addresses public sector actors as well as the IT industry.								
User story & results	data so As a pu	sovo IT company I wan that I can develop corr blic actor I want to lear an effectively promote	esponding IT applications in more about current of the second sec	ons. e-government	trends and ope				
Acceptance criteria & indicators		 At least 20 companies and 15 government representatives / public actors have participated in the information event on e-government and open data. 							
Responsible	ASHI		Partner	MZHE, KIPA,	STIKK, USAID, E	U			

Task No	Э.	4.4	Task name		mplement information 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- government trends and open data including national and international best practice examples (e.g. selected open data portals)			Pro	esentation	EU	1.04 17.04.2017	6,000
4.4.2	government define next s	duct information event on current e- ernment trends and open data and ne next steps for public-private aboration in this field			t of participants	ASHI, KIPA, MZHE	20.04.2017	3,000
4.4.3	Establish a jo collaboration and open da	n platforn	ing group / n on e-government	Pro	otocols	ASHI, KIPA, STIKK, MZHE	21.04 29.05.2017	1,500
Comme	ents	governn Best pra http://o http://p http://w http://w	emphasis should be p nent as well as for the ctice examples: pen-data.europa.eu/ ublicdata.eu/ vww.data.gov/ ata.gov.uk/ vww.opendata.bayer ata.gov.sg/	e pr ' <u>en/</u>	ivate sector. <u>data/</u>	penefits of ope	en data for the	
Team		n.a.	<u>ata.50¥.35/</u>					
	10115	-						
Continuous n.a. 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 that I can make informed decisions on how to apply IT effectively in my organization. As an academic or student I want to use information events on latest IT trends so that I can integrate them effectively in my academic activities (research, teaching, studies).								
Acceptance criteria & indicators		ast 3 information ever 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: organiza	sible ation (lead)	STIKK			Partner organizations	MZHE, MASHT, Universities, Industry 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 (format, dura	-	ormation events ucture, etc.)	Co	ncept	STIKK	4.05 11.05.2017	2,000	
4.5.2	Identify and	evaluate	relevant IT trends	-	t of IT trends with hort evaluation	STIKK, IT companies	12.05.2017	7,000	
4.5.3	Conduct info	Conduct information event on latest IT trends			esentations; lists of rticipants	IT companies, STIKK	17.11.2016 / 8.04.2017 / 12.08.2017 / 9.12.2017 / 13.04.2018 / 10.08.2018 / 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 on e app the	l research institutes. vents should be on il lications of latest IT t e identification and ev	lustrating the rends.	possible impa	cts, ng	
Team		n.a.							
Continuous n.a. 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 As a Kos	As a CIO I want to participate in the CIO summit in order to participate in expert discussions and to network with Kosovo IT companies. As a Kosovo IT company I want to participate in the CIO summit in order to network with potential partners and clients.							
Acceptance criteria & indicators	 The Kosovo CIO Summit is taking place on an annual basis with a minimum of 50 participants. 								
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 12.02.2017	2,000	
4.6.2	Conduct Kosovo CIO Summit on an annual basis				ogram; list of rticipants	STIKK	12.05.2017 / 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 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							
 Open thus of Provide	 The main goals of this task are: 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 Provide companies from other industries with innovative IT products and services in order to improve their efficiency and productivity. 								
User story & resultsAs a Kosovo IT company I want to participate in B2B match-making events so new clients and business partners from other industries.As a company from the non-IT sector I want to participate in B2B match-match order to identify suitable providers of IT solutions and services.									
Acceptar & indicat	ice criteria fors	 At least 2 match-making events / year have been successfully implemented. As a result of the match-making events at least 5 business cooperations / contracts / year have been established. 						cracts /	
	Responsible organization (lead)			Partner organizations Industry Associations, Clusters, Chambers, KIESA, MTI, GIZ, NM 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 Note: B2B m	gy, format arketing, natch-mak	, agenda, duration,	concept		6.02.2017			
4.7.2	Conduct IT r target indus		ssment in selected	IT needs assessment report (PPT)	SDC	9.02 30.03.2017	12,000		
4.7.3		dividually uster-base	ct / service on company level ed: "integrated	Description of IT product / service portfolio	STIKK, IT companies	31.03 6.04.2017	2,000		
4.7.4	Organization and implementation of industry-specific B2B match-making events			Program, company presentations, list of participants	STIKK, IT companies	10.06.2017 / 14.12.2017 / 10.06.2018 / 12.12.2018	12,000		
4.7.5		o the com	elopment support apanies after the	Evaluation reports	STIKK, SDC, GIZ	25.11.2016 / 25.05.2017 / 25.11.2017 / 25.05.2018 / 25.11.2018	3,000		
Comme	nts	particula energy). Furtherr service of descript Manual 2011/giz Underst industrie combina specializ success	ar industry association nore the whole task of STIKK (cluster service and Toolbox (5.1) for 2011-0475en-it-sect anding the specific re- tes is a key success far ition with a vertical f cation and process k factor and important	lutions	s of the selecter signed and imple efficiency and process model attp://www2.gt odf. ems of users in ipative, user-en- ed. Vertical (incon nancial services tential competi- ollowing produ Web desig Network s Intranet so	ed target indus lemented as a sustainability. can be found z.de/dokumer the selected tan agged approa lustry-specific industry) are tors. ct / service po gn support & main plustions nent solutions	atries (e.g. specific A detailed in GIZ's <u>ate/bib-</u> arget ach in) another ke rtfolio has		

Task No.	4.7	Task name	Implement B2B match-making events with selected domestic market target industries				
	Financia Mining.	Financial services, Telecom, Agriculture, Public sector. An additional target industry could be Mining.					
Team	n.a.	n.a.					
Continuous 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 indirect exporting)	ternational investors			
Priority	riority 2 Predecessor tasks		-	-		% Complete	0%		
Descript	ion & rational	е							
between on these internation	local IT enter linkages, Kosc onal markets t	prises and ovo IT cor through r	ional business oppor d international invest npanies will not only eferrals by these inve vo IT companies will	ors win esto	(FDI) / multinational new clients on the d rs / MNCs to their pa	corporations (lomestic mark rent company	(MNCs) in Koso et but also get or to other cli	ovo. Based access to 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. naking events at least 3 business cooperations / contracts /					
Responsible organization (lead)		STIKK			Partner organizations	Foreign Chambers (e.g. AmCh KDWV, WKO),Embassies, KIES 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 events (format, agenda, duration, financing, marketing, etc.)			Co	ncept	GIZ	1.05 2.05.2016	2,000	
4.8.2	Conduct IT needs assessment of foreign investors in Kosovo (interviews)				needs assessment port (PPT)	SDC	7.05 23.05.2016	6,000	
4.8.3	Definition of IT product / service portfolio (individually on company level as well as cluster-based: "integrated service portfolio")			pro	scription of IT oduct / service rtfolio	STIKK, IT companies	26.05.2016	1,000	
4.8.4	Organization and implementation of B2B match-making events (e.g. in the form of an "STIKK IT Brunch")			pre	ogram, company esentations, list of rticipants	STIKK, IT companies	4.03.2017 / 2.11.2017 / 2.03.2018 / 2.11.2018	8,000	
4.8.5	Provide business-development support (follow-up) to the companies after the match-making event			Eva	aluation reports	STIKK, SDC, GIZ	4.11.2016 / 5.05.2017 / 3.11.2017 /	3,000	

Task No.	4.8	Task name	Organize B2B match-making with international investors (indirect exporting)					
			3.05.2018 / 3.11.2018					
CommentsThe match-making events should be organized and implemented in close cooperation of the corresponding foreign chambers of commerce (e.g. WKO, KDWV, AmCham, etc.). It is important to communicate effectively the business case / benefits for internationa investors resulting from a cooperation with Kosovo IT companies (e.g. local IT know-ho 								
Team	n.a.	n.a.						
Continuous 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 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 ustries and sectors of			IT in small
User sto	ory & results	introdu	. , , , ,		ant to use the financi npany and thereby in			l can
Accepta & indica	nce criteria itors	 At let 			or stimulating IT usag T) / year made use o			
Respons organiza	nsible KIESA ization (lead)				Partner 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 eligibility		Co	ncept	MF, KIESA	2.02 11.02.2017	8,000
4.9.2	Allocate bud scheme for S	-	nancial incentive IE)	Bu	ldget	MF	12.02 27.02.2017	2,000,000
4.9.3	4.9.3 Launch information campaign on financial incentive scheme for SMEs (website, marketing material, information events, etc.)		eme for SMEs naterial,	Marketing material		KIESA	2.03 13.03.2017	10,000
4.9.4	Implement f	inancial ir	ncentive scheme	Re	ports	KIESA	16.03.2017 -	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 eme program for	Evaluation reports	KIESA	1.06 30.12.2018	9,000		
Comments The financial incentive schem purchase, implementation ar form of grants. Best practice examples: Brazil: SOFTEX: http://www.sgingapore : Sectoral Productive http://www.ida.gov.sg/blog/Singapore : SaaS CFC: http://www.ida.gov.sg/blog/Germany: EBIGO: http://innc				d management. Finan oftex.br ity CFC: nsg/featured/s42m-se nsg/egov-sectors/saas	cial incentives	s should be prov for-sme-produc sector-smes/	ided in the tivity/		
Team		n.a.							
Continu 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 identify p At the sau	n and compe otential for ir me time, the o	titiveness nproveme digital ma	. Using the tool will a ent in terms of IT / di turity assessment too	llow gita ol al	s on the importance v local companies to a l technologies. llows STIKK and the K 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.							
	 Acceptance criteria The digital maturity assessment tool is fully operational. At least 20 companies (non-IT) / year have made use of the digital maturity assessment tool. 							sessment
Respons organiza	ible tion (lead)	STIKK			Partner 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 sessment tool	GIZ	15.05 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 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 ne version)	Number of registrations	STIKK	16.09 30.10.2017	3,000		
4.10.4			port on digital compiled results)	Report	STIKK	2.11 31.12.2017	5,000		
Comments The digital maturity assessme Marketing / custom Brand Operations Business models Capabilities Digital vision Engagement Governance Skills Note: For the online version protection need to be taken				er interaction of the digital matur			ita		
Team n.a.									
Continuous n.a. 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 education in Kosovo	plement continuous improvement system for IT 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. Therefore this task is directed at promoting education and human resources excellence by continuously monitoring, evaluating and improving IT education in Kosovo (particularly on the university level) based on close cooperation between STIKK (private sector), universities, schools and relevant ministries. This task involves the establishment of corresponding methodologies, processes and organizational structures as well as the implementation of operational measures such as the integration of applied courses and lectures by IT professionals into curricula.										
User story & results		sovo IT industry stakeh ation in order to promo				stem for				
Acceptance criteria & indicators	 Reco publ At let 	 Recommendations on IT education curricula in Kosovo are being elaborated and published on an annual basis. 								
Responsible 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 education in Kosovo	-	nent system for I	Т
Task ac	ctivities:						
No	Activity			Deliverables:	Resp.	Timing	Budget
5.1.1	education in Competence topics) inclue	Kosovo (groups fo ding all re and defi	tence group on IT see Task 6.10 or strategic IT levant ne guidelines for	Guidelines; list of members	STIKK	1.04 9.04.2017	1,000
5.1.2		on curricı	nd benchmarking ula in Kosovo ols)	Report	STIKK	10.04 8.05.2017	7,000
5.1.3	_			Recommendations	STIKK	11.05 29.05.2017	10,000
5.1.4	IT qualification profiles (e.g. software dev	on profile software velopmen esting, sys	stem integration	IT qualification profiles / competence profiles	STIKK	1.06 22.06.2017	10,000
5.1.5	conference t	o present	event and press t recommendations ula in Kosovo	Program; presentation; list of participants	STIKK	30.06.2017 / 30.06.2018	3,000
5.1.6	software tes	ting (inclu) as comp	ulsory subjects into	Revised curricula; certified students	UNIV	13.04 30.12.2017	4,000
5.1.7	programs int	to the cur	ed certification riculum (e.g. ITIL, , PMP, PRINCE2,	Course descriptions; certified students	UNIV	13.04 30.12.2017	90,000
5.1.8	Develop and and lectures (practitioner	by IT pro		Course descriptions and material	STIKK	13.04 30.12.2018	15,000
Comme	ents	correspo It is reco	onding recommendat	is task, evaluation of ex tions need to be implen hmark Kosovo IT curricu in strategic export mark	nented on a i ula against co	regular basis (anı	nually).
	Beside manag capabi Concer lecture		pure technical / engi ment, project manag ties") should be taker	neering skills, also capa ement as well as vertic n into account (see also	bilities in the al business p results of th	rocess know-hov e external analys	w ("hybrid sis).
			by IT professionals, u y (see Task 2.1) in or		perate closely	y with the STIKK	Training
		latest te	chnology trends inclu	delivered by IT profess uding mobile computing ment, big data & analys	g, cloud com	-	-

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

5.1.5.2. Implement international academic cooperation and exchange program

Task No		5.2	Task name		mplement internatio exchange program	nal academic o	cooperation ar	nd	
Priority		3	Predecessor tasks	-			% Complete	0%	
Descript	ion & rational	e							
and coop that, this IT educat	peration, there task intends t tion and to ga	eby facilita to equip l' in experie	rovide Kosovo univer ating capacity buildin T professors and stud nce abroad. This task ching and working ab	g ar lent c als	nd the transfer of kno is from Kosovo to lea io includes the establ	ow-how and te rn about inter	echnology. In a national best p	ddition to practices in	
User sto	ory & results	coopera	professor or student tion programs to furt ional experience.		-			-	
 Acceptance criteria & indicators At least 6 international academic cooperation agree At least 6 IT professors from universities in Wester teaching at universities in Kosovo. At least 30 students have participated in an intern 					ern Europe or t	he US have be	een		
•	Responsible MASHT organization (lead)				Partner organizations	UNIV, STIKK, NMFA, SDC, ADA, USAID, 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 ience (pro	ange program for ocedures, partner	Pro	ogram concept	SDC	2.02 27.02.2017	10,000	
5.2.2	Implement international academic cooperation and exchange program for computer science		ag ex	operation reements; list of change professors d students	MASHT	2.03.2017 - 30.12.2018	300,000		
5.2.3		ish network of Kosovo academics ng abroad (online portal)		Or	line portal	MASHT	2.03.2017 - 30.12.2018	15,000	
5.2.4			n" program for ademics working	"В	rain Gain" program	MASHT	2.04.2017 -	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. 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 Providing IT of Employer brai Infotainment Providing stud opportunities Deepening co	task are: ompanies nding and recru lents and in the Ko operatior	with suitable studen tainment graduates with the c sovo IT industry between universitie	ts a oppo 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 & indica	nce criteria ators	 At let 			ice (SPS) has been im ates per year find a jo	-			
Respons organiza	sible ation (lead)	STIKK			Partner 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 description, delivery mod	evelop service concept for the Student acement Service including service escription, features, customer benefit, elivery mode, process model, emplates, financing		Se	rvice concept	GIZ	15.01 30.01.2017	3,000	
5.3.2	Implement Student Placement Service, including integration into STIKK job exchange (see Task 6.6)				b / internship fers	STIKK	2.02.2018	6,000	
5.3.3		ervice for	nt special Student Kosovo students	se	tension of the rvice concept; job / cernship offers	GIZ	2.03.2017 - 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 3.10.2017 / 2.05.2018 / 3.10.2018	9,000	
Comme	nts	should to Best pra BASSCO IT FOR V work.de CYBERFO business For inclu	be integrated into the ctice examples: M: <u>http://www.basso</u> VORK: Jobtournee: <u>ht</u> /Inhalte/Kompetenz/ DRUM: Recrutainmer speople/recruitainment iding Kosovo student I (e.g. association of k	<u>:com.org/jobs</u> : <u>tp://www.it-for-</u> / <u>Services/2196676/Jo</u> it: <u>http://www.en.cyk</u>	<u>btournee.html</u> perforum.de/o s of Kosovo stu	ffering/for- idents should be	actively	
Team		n.a.						
Continu 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 ter science and	the Kosov	s to promote high-po o IT industry. Thereb 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 ote IT education and			osovo IT schol	arship progran	n in order	
Accept & indic	ance criteria cators	The Kosovo IT scholarship program is fully operational.At least 5 students / year have received the Kosovo IT scholarship.							
	Responsible STIKK organization (lead)				Partner organizations	UNIV, MASHT, IT companies, NMFA 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 Irship program (application ss, selection process, financing,		Co	ncept	STIKK	1.12.2016 - 30.01.2017	1,000	
5.4.2		Implement and manage the Kosovo IT scholarship program			t of scholarship Iders; reports	STIKK	2.02.2017 - 30.12.2018	90,000	

Task No.	5.4	Task name	Introduce Kosovo IT scholarship program					
Comments		ovo IT scholarship shou 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 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 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 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 re-final year IT studer rsities for continuous	nts i	n order to ensure en	nployability an	d quality and t			
User sto	ry & results	to ensur As a Kos	ovo IT company I wa e employability of IT ovo university I want and continuous impro	stu to	dents / graduates and use the STIKK compe	d to evaluate j tence assessm	ob candidates			
Acceptance criteria•The STIKK competence a& indicators•At least 100 students ha until the end of 2018.							-			
Responsible STIKK 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 based on int	standard ernationa est matrix	, employment	Со	ncept	STIKK	2.11 30.11.2017	8,000		
5.5.2 Implement and manage STIKK competence assessment standard for IT students			-	Test system; evaluation report		STIKK	1.12.2017 - 30.12.2018	25,000		
Comme	Comments STIKK competence assessme IT standards. Particularly EU Best practice examples: 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 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 n the Kosovo IT educa		ns at Kosovo u	niversities		
User sto	ry & results		ovo IT company I wa verview on IT educat		o use the university r in Kosovo.	anking system	(IT) so that I o	an get a		
			dent I want to use the er science degree pro		iversity ranking syste 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 organization (lead)				Partner 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 tion criteria, etc.)	Co	ncept	STIKK	4.01 29.01.2018	5,000		
5.6.2	Conduct univ years)	versity rar	nking (every 2		st system; aluation report	STIKK	1.02 30.12.2018	6,000 (per ranking)		
Comme	Comments Best practice examples: CHE Ranking: http://www.			e-ra	nking.de					
Team		n.a.								
Continu 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				
 Promoting IT talent and HR excellence in Kosovo Motivating and mobilizing Raising the awareness on the importance of IT education Recrutainment and employer branding for the Kosovo IT industry The National IT Olympics will be organized annually in a partnership of STIKK, IT companies, universities and the government. 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. User story & results As a Kosovo IT industry stakeholder I want to use the National IT Olympics to promote IT talent and HR excellence in Kosovo. As a Kosovo IT company I want to use the National IT Olympics for recrutainment and employer branding. 										
Acceptance criteria & indicators • The National IT Olympics have been conducted in 2017 and 2018 with at least 60 participants / event.										
Respons organiza	ible tion (lead)	STIKK			Partner 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 Olympics (fo organization sponsorship,	rmat, pro , applicati	gram,	Со	ncept	STIKK	2.03 16.03.2017	3,000		
5.7.2	Organize Nat annual basis	tional IT C	lympics on an		ogram; list of rticipants	STIKK	15.05.2017 / 16.05.2018	3,000 (addition- al budget from sponsor- ship)		
Comments The National IT Olympics co competitions, hackathons, e Best practice examples: CodeIT: <u>http://codeit.bg/en</u> hackMIT: <u>http://www.hacku</u> National Infocomm Compet				c. it.or	Έ.		ch as program	iming		
BUTeam		n.a.								
Continuo 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 compete Hence, t	tiveness of the ences are quicl his task will pr cy degree while	e Kosovo ľ kly changi omote pa	n resource excellence T industry. At the sar ng, making life-long l rt-time and distance . This task is particula	ne t eari leai	ime, requirements con ning and qualification rning IT education, al	oncerning tech a key success lowing profess	nnical skills and s factor. sionals to obta	iin a	
	ory & results	to impro experts. As a Kos the skills As a pro	ovo IT industry stake we the qualitative an ovo IT company I wa and capabilities of n fessional I want to us cy degree while work	d qu nt to ny s se pa	uantitative output of o use part-time and o taff. art-time and distance	universities ir distance learni	i Kosovo in ter ng programs t	ms of IT o improve	
Accepta & indica	ance criteria ators		ast two new part-tin ects (Bachelor, Maste						
Respon organiz	sible ation (lead)	UNIV			Partner organizations		T, National Qu 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 IT education		eds assessment port	STIKK	1.01 29.01.2018	8,000	
5.8.2	Develop curi distance lear		part-time and lucation	Cu	rricula	UNIV	1.02 30.03.2018	10,000	
5.8.3	Implement p learning IT e			Re	ports	UNIV	31.03 30.12.2018	60,000 (initial funding)	
gener It is re abroa imple this w Strate shoul			 This task needs to be closely coordinated with Task 2.1 STIKK Training Academy in order to generate synergies. 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. Strategic cooperations with renowned providers of Massive Open Online Courses (MOOC) should be established such as: Coursera: https://www.coursera.org edX: https://www.edx.org The Website of STIKK/STIKK Training Academy should be directly linked to these providers. 						
Team		n.a.	I: <u>https://openhpi.de</u>	-					
Continu 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 Promoting an Coordinating Fostering inte Promoting dig	competen d coordin the Comp rdisciplina gital trans ablished	formation in Kosovo within a future ICT M	gital pplio	technology ed R&D in strategic I try.	T topics (see Ta	-	
User sto	ory & results	to prom applied		atio	n in Kosovo and to c	oordinate IT eo	ducation as we	ll as
Accepta & indica	ance criteria ators	 The 	Kosovo Institute of D	igita	al Technology has be	en established	l and is fully op	erational
-	Responsible MZHE, MASHT organization (lead)				Partner organizations	STIKK, UNIV, National Qualification Agency, MTI, EU, USAID, NMFA, GIZ 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 29.05.2017	15,000
5.9.2	Establish and	d manage	the KIDT	An	nual reports	MZHE	1.06.2017 - 30.12.2018	300,000
5.9.3		research	with relevant institutes and	Mo	oUs	SDC	2.02 30.12.2018	3,000
Comments This task needs to be closely R&D in strategic IT topics. Best practice examples: Information Technology Inst Romania: National Institute http://www.ici.ro/IClenglish		tute or R	e (ITI): <u>http://www.it</u> esearch & Developn	i.gov.eg		oplied		
Team		n.a.						
Continu 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 and seco	sis by fostering ondary educati	s MINT (m on. This v	romote human resou athematics, informa vill motivate and insp nation and the know	tion bire	sciences, natural sci future talent to study	ences, techno y MINT subject	logy) subjects	in primary
User sto	ory & results		ovo IT industry stake ry education in orde		-	e MINT subjec	ts in primary a	ind
 Acceptance criteria & indicators The number of lessons the end of 2018. At least 300 teachers h training) in teaching IT 					uccessfully completed			-
Responsible MASHT organization (lead)				Partner organizations	STIKK, UNIV, National Qualification Agency, EU, USAID, NMFA, GIZ, SDC 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 ary and secondary	Pro	oposal	MASHT	1.06 30.06.2017	10,000
5.10.2		ng MINT s	nplement proposal ubjects in primary ;ion	Re	port	MASHT	1.07.2017 - 30.12.2018	300,000
5.10.3	Develop and implement further education program (teacher-training) in teaching IT subjects / computer science		pro tea co	rther education ogram; list of achers who have mpleted teacher- iining in IT subjects	MASHT	15.07.2017 - 30.12.2018	200,000	
Comments -								•
Team		n.a.						
Continuous n.a. 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 Promote tech Provide stude Donation of so Provide stude Organize spec	ational IT nology tra nts with s oftware li nts with i ial course	to establish special of companies and softwansfer skills in leading IT / so cences to universities nternational internshes, lectures and traini d R&D projects	waro oftw s nips	e vendors with the ai	m to:		osovo
User sto	ry & results		ovo IT industry stake llence and skills deve			versity alliance	programs to	oromote
Accepta & indica	nce criteria tors	• At le	east 2 university alliar	nce	programs have been	implemented	until the end	of 2018.
•	Responsible UNIV organization (lead)				Partner organizations	MASHT, STIKK, National Qualificatio 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 (multinational IT are vendors)	-	t of suitable ance partners	STIKK	1.10 30.10.2017	3,000
5.11.2	Establish and alliance prog	-	ent university	M	bUs	UNIV	2.11.2017 - 30.12.2018	3,000 Financing by alliance partners
and PMP into uni Best practice example		versity Alliances: <u>http</u>	nce	programs.				
Team		n.a.						
Continu 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 educatic who are qualifica	address this c n. The overall able to bridge tion profiles.	hallenge a objective the exist	ous challenge for the a second line of IT qu of vocational IT edu ing qualification gap	alifi catio with	cation will be introdu on in Kosovo will be t hin the Kosovo IT labo	uced in the for to produce hig our market and	m of vocationa hly-qualified II d to compleme	l specialist nt existing		
User sto	ory & results		ovo IT company I wa my enterprise	nt to	o use vocational educ	cation for IT sc	o that I can find	l suitable		
Accepta & indica	nce criteria Itors	 At let 	east 2 vocational train	ning	schools for IT have b	oeen establishe	ed.			
Responsible MZHE, MASHT organization (lead)					Partner organizations	STIKK, Natior EU, NMFA, G	nal Qualificatio 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 d on the	ion concept and al IT education in German dual education	Co	ncept; curricula	GIZ	2.03 29.05.2017	15,000		
5.12.2	Establish voo Kosovo	cational e	ducation for IT in		least 2 vocational ining schools for IT	UNIV	1.06.2017 - 30.12.2018	300,000		
Comments Vocational education for IT in system ("Duales Ausbildungs vocational education at a voo should be strictly regulated a The dual education system co Best practice examples: IT-Berufe: http://www.it-ber Fachinformatiker: http://berufenet.arbeitsager Estonian IT College: http://ww				syst catic ind o ould <u>ufe.</u>	em") which combine onal training school. T defined as national st be also extended in <u>de</u> <u>de/berufe/docroot/r</u>	rs apprentices The precise ski tandards. order to creat r2/blobs/pdf/b	nips in a compa Ils and theory e special IT col	any and taught		
Team		n.a.								
Continu 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 limitatio This task	collaboration ns in resource	and innov s and to ju uip Kosov	or promoting the Kos vation / R&D. Further ointly target new man o IT industry stakeho	mo rket	re, clusters allow Kos s.	sovo IT compa	nies to overcor	ne	
User sto	ory & results		ovo IT industry stake ment so that I can pr			-		uster	
Accepta & indica	nce criteria ators	app • At le	ning material and cas roved by STIKK. east 10 IT industry sta nagement training.			-		-	
-	esponsible MZHE rganization (lead)				Partner 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 studies on IT	-	terial and case nanagement		aining material and se studies	GIZ	2.11 30.11.2017	6,000	
6.1.2	Conduct trai cluster mana stakeholders	agement f	kshop (3 days) on IT for selected	gro ass	ogram; results of oup works / signments; list of rticipants	GIZ	7.12 11.12.2017	4,000	
6.1.3	Provide clust and toolbox		gement manual		uster management anual and toolbox	GIZ	14.12 18.12.2017	-	
planning, Organizational str marketing, project & proces knowledge management. Best practice examples:			training should inter alia cover the following topics: Business ucture, quality management, IT cluster services, cluster is management, cluster financing, HR management, innovation, <u>http://www.software-cluster.com</u>						
Team		n.a.							
Continu 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, this task are: Establishing S Increasing the services	service po TIKK as a e internati	of activities designed ortfolio, quality mana Cluster of Excellence onal competitivenes n between Kosovo IT	in t s of	nent, innovation as v he global IT industry STIKK member comp	vell as financia	l sustainability	. The main		
User st	ory & results		ovo IT industry stake on and in order to ge							
Accepta & indica	ance criteria ators	 By the grad set of the grad set o	he end of 2018, STIKI he end of 2018, STIKI ity certification. east 70% of STIKK me K as good.	K ha	s been certified acco	rding to ISO 9	001 or a comp	arable		
Respon organiz	zation (lead)				Partner organizations	MIT, KIESA, G 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 (IT Cluster of		ess plan for STIKK ce)	Bu	siness plan	STIKK, GIZ	2.02 16.03.2017	6,000		
6.2.2	Further deve and process	. –	nizational structure STIKK	joł	ganizational chart; descriptions; ocess model	STIKK, GIZ	17.03 15.06.2017	8,000		
6.2.3	Develop and portfolio (ind existing serv	luding in	nt STIKK service tegration of		IKK service rtfolio	STIKK, GIZ	17.03 30.06.2017	15,000		
6.2.4	application / application (groupwa e.g. Share support I n and kno	Point, Trello, Γ stakeholder	soi / g	llaborative ftware application roupware or ECM plication	STIKK	16.06 15.07.2017	6,000		
6.2.5	Introduce QM system and support certification of STIKK according to ISO 9001 or a comparable quality certification			ST	ality manual for IKK; certification cument	STIKK	16.06.2017 - 30.12.2018	20,000		
6.2.6	Support STIKK in enlarging its membership base		Ne	w members	GIZ	2.02.2017 - 3.08.2018	3,000			
6.2.7	Integrate un associated m		into STIKK as		iversity embership	STIKK	17.03 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 Improvement	n.a.						

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

Task No		6.3	Task name		Establish internationa Ambassadors")	al advisory boa	rd within STIK	K ("Brand
Priority		1	Predecessor tasks	-			% Complete	0%
Descript	tion & rational	e						
task will professio	address this is onals and perso boards will ad	sue by es onalities f	tablishing an interna from the internation	tion al IT	s lack of branding an al advisory board wit industry, politics and and will serve as "bra	thin STIKK, cor d the academia	isisting of top- a. The membe	ranking rs of the
User sto	ory & results		ovo IT industry stake adors" for the Kosovo		der I want to use the industry.	international	advisory board	d as "brand
Accepta & indica	nce criteria Itors	 The 	international advisor	ry bo	oard within STIKK is f	ully operation	al.	
Responsible STIKK organization (lead)					Partner MTI, MZHE, GIZ, NMFA, USAID, E 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 dvisory board	Co	ncept	STIKK	1.12 5.12.2016	1,000
6.3.2	-		advisory board nizational structure	Statute; organizational chart		STIKK	8.12 12.12.2016	1,000
6.3.3	Identify and internationa		nembers of the board	the	t of members of e international visory board	STIKK	15.12.2016 - 30.12.2017	4,000
6.3.4	Organize annual meetings / reunions of the international advisory board			M	eeting reports	STIKK	23.10.2017 / 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 etwork within the glo	dvisory board s bal IT commu	should be sele nity.	cted based

Task No.	6.3	Task name	Establish international advisory board within STIKK ("Brand Ambassadors")
Team	n.a.		
Continuous 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 different segment compani leverage	nize sub-cluste tiate themselve s more effecti les could use t	ers specia es from co vely. This hese sub- and peno As a Kos	lizing on specific ver ompetitors, to impro- is particularly releva clusters for the form etrate new markets. ovo IT company I wa	tical ove t int w iatio	tition, differentiation, , horizontal or techn heir market position vith regards to expor n of consortia, allow o participate in speci	ical capabilities ing and to add t promotion. C ing them to bu	s. This will allo ress selected o ptionally, Kos ndle their con	w them to customer ovo IT npetences,
Accepta & indica	ince criteria ators	SpecSpec		have	e been successfully e e successfully particip		t 3 national o	r
-	Responsible STIKK organization (lead)				Partner organizations	MTI, KIESA, MZHE, GIZ, NMFA, USAI 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 d sub-clusters		aluation report on cus topics	GIZ	1.05 29.05.2017	3,000
6.4.2	Elaborate or specialized s	-	nal concept for rs	Co	ncept	GIZ	1.06 30.06.2017	3,000
6.4.3	Establish spe	cialized s	ub-clusters		ort profile of sub- Isters	STIKK	1.07 30.09.2017	5,000
6.4.4	Develop and specialized s	-	nt action plans for rs	Ac	tion plans; reports	STIKK	1.10.2017 - 15.06.2018	12,000
Comme	nts	market i taken in Bundlinį address competi Best pra	ntelligence generate to account. g capabilities and res	ed by courc cale irop		rmation Service	e (see task 3.1 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 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 well as j to encou	rtia, a special cl oint research a	uster pro ind marke ation of s As a Kos	IT Cluster of Exceller motion program sho ting projects. In addi trategic cooperation ovo IT company I was te with other compan	uld tior in t nt t	be introduced includ n to that public tende he form of clusters o o participate in the c	ing grants for er procedures r consortia. luster promoti	cluster manag will be adapted	ement as d in order o that I can	
Accepta & indica	ance criteria ators	 The 	cluster promotion pr east 1 cluster project	-					
Respon organiz	sible ation (lead)	MZHE			Partner 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 27.02.2017	3,000	
6.5.2	Implement c	luster pro	motion program		oject proposals oplications)	MZHE	2.03 29.05.2017	30,000 (IT industry)	
6.5.3	Adapt tende clusters / co		res to promote		lapted tender ocedures	KRPP	1.09 30.09.2017	2,000	
Comments It is advisable to design and industries of the Kosovo eco industries), where the Kosov Best practice examples: Germany: Go Cluster: http:// Latvia: http://www.itbaltic.or companies					y or a group of select sector is eligible to s w.go-cluster.de	ted industries ubmit project	(e.g. high-tech proposals.	1	
Team		n.a.							
Continuous n.a. 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 manage 1	arent labour m the hiring proc	narket and cess. In or	d lack of employer br der to address this is	and sue	lenges for Kosovo IT ing. Besides, most IT in a collaborative ap vill be designed and i	SMEs don't ha proach, STIKK	ave HR departi will establish a	ments to a job
User sto	ry & results		ovo IT company I wa 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 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 TIKK job exchange	red	ncept, quirements ecification	STIKK	2.03 20.03.2017	5,000
6.6.2	Conduct ten STIKK job exc		nplement the		b exchange within IKK website	STIKK	23.03 31.07.2017	12,000
Comments The STIKK job exchange shou community and should be in Best practice examples: Germany: Software Cluster: <u>cluster.com/de/karriere/job</u>			tegr http	ated in STIKK's servic	e portfolio.		T	
Team		n.a.						
Continue 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 the domestic market. A 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 & indica	ance criteria ators			Kosova Conference (SFK) has been successfully implemented or cooperation with STIKK.					
•	Responsible STIKK organization (lead)				Partner 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 nentation of the Software m Kosova Conference on an basis			ogram; list of rticipants	EU, USAID	10.10 12.10.2016 / 13.10 14.10.2017 / 13.10 14.10.2018	9,000	
6.7.2		•	between FLOSSK communities	M	oUs	NMFA, GIZ	3.11.2016 - 30.12.2018	1,000	
Comments Best practice examples: Germany: Software Cluster: alliance.de			Ope	n Source Business Al	liance (OSBA):	http://www.c	osb-		
Team		n.a.							
Continuous n.a. 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 particularly relevant w 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 & indicators	The	joint competence cent joint competence cent or consortium partner	er on EU projects has a		-	' year (as			
Responsible organization (lead)	STIKK		Partner 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 formation of	center or vices por consortia he applica	n EU projects	Concept for joint competence center on EU projects	STIKK	1.09 11.09.2017	3,000
6.8.2	Implement a competence		te joint n EU projects	Project proposals	STIKK	14.09.2017 - 30.12.2018	9,000 (start-up)
Commer	nts		ctice examples: 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. 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 ovo IT industry and to I joint projects.				
User sto	ory & results		-		nt to use internationa s, for match-making a			exchange	
Accepta & indica	ance criteria ators	 At let 	east 3 cooperation pr	ojec	ational IT clusters an cts with international emented until the end	IT cluster part			
•	Responsible STIKK organization (lead)			Partner 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 cooperation partners; description of areas of cooperation / potential cooperation projects		GIZ	1.04 31.12.2016	2,000		
6.9.2	Establish cooperation with IT clusters and associations		M	oUs	STIKK, GIZ	1.05.2016 - 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 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 Special C	such as huma Awareness ra Networking b Promoting co Developing ar ompetence G Cloud Compu Mobile Comp Big Data & An Industry 4.0 (d IT Security Open Source S E-Health Human Resou	n resourc ising & in etween p llaboratic nd impler roups (SC ting uting alytics Cyber-Phy Software rces (HR)	roviders and users on between companie nenting joint projects Gs) should cover the ysical-Systems) and El (OSS)	rtre s, p	ends. The main goals ublic sector and acad owing strategic IT top	of these SCGs 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 & indica	nce criteria tors	At le	east 6 Special Compete east 2 whitepapers, g s / year.		-			by the
Respons organiza	ible ition (lead)	STIKK			Partner organizations	MASHT, MIT, MZHE, ASHI, KIESA, ZKM, UNIV, GIZ, NMFA, SDC, USAID 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 goals, struct		he SCGs including rocedures	Co	ncept	GIZ	1.05 15.05.2017	1,000
6.10.2	Define the to	fine the topics for the SCGs			t of topics with aluation report	STIKK	18.05 5.06.2017	2,000
6.10.3	6.10.3 Establish and manage the SCGs		me wh gu	t of members, eeting reports, hitepapers, idelines, project oposals	STIKK	8.06.2017 - 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 experts in SCG meetings (presentations, lectures, etc.)		reports	EU	2.10.2017 - 30.12.2018	6,000	
6.10.5	-	groups o ociations,		Cooperation agreements	GIZ, NMFA	2.11.2017 - 30.12.2018	3,000
Comments In contrast to the specialized are mostly technology driven The SCGs should be also used other industries of the Kosov			and cover strategic topi to promote cooperation	cs for the IT in n between IT p	dustry. providers and		
Team n.a.							
Continuous n.a. 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 mentorin	panies who w g committee	vill provido organizes	e mentoring to young monthly entreprene	g en ursl	mmittee at STIKK / IC trepreneurs and star hip dinners for inform s) as well as for coach	t-ups. In addit nal match-mak	ion to that, the king between s	5
User sto	ry & results		to learn from experie		e mentoring services ed managers and to s		-	
				ee has been successfully established. lucted at least 10 mentoring sessions / year.				
Respons organiza	ible tion (lead)	STIKK / I	СК		Partner 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 ee (members, procedures, etc.)		Со	ncept	STIKK	1.10 7.10.2017	1,000
7.1.2	2 Establish mentoring committee at STIKK / ICK and conduct coachings for start-ups			Lis	t of participants	ICK	8.10 16.10.2017	3,000

Task No	Fask No. 7.1 Task name		Establish mentoring committee at STIKK / ICK				
7.1.3	Organize mo dinners with mentoring co business ang	the mem	, start-ups,	List of participants	ICK	19.10.2017 - 30.12.2018	8,000
Comments This task needs to be closely conservices for entrepreneurs and					of specialized con	sulting	
Team		n.a.					
Continu 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 and VC Association	ment of the Ko	osovo Busines	s Angels
Priority		1	Predecessor tasks	-			% Complete	0%
Descrip	tion & rational	е						
establish for Koso	ment of a Kos vo IT start-ups neurial ecosys	ovo Busir and com	n obstacles to entrep ness Angels and VC As panies. Furthermore ne Kosovo IT industry	ssoc the	iation will foster the association will beco	provision of a ome an import	ngel and VC in ant element o	vestment f the
User story & results As a Kosovo IT start-up / c Association in order to get				-	-		ss Angels and \	/C
Acceptance criteria • The Kosovo Business A & indicators				gels	and VC Association h	as been succe	ssfully establis	hed.
Responsible CEED / ICK organization (lead)				Partner organizations	MF, MTI, MZHE, KIESA, USAID, EU, 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 establishmer Angels and V	nt of a Ko	sovo Business	Pro	oposal	USAID / ICK	17.11 3.12.2016	5,000
7.2.2	Mobilize pot members for			ра	t of potential rtners and embers	USAID	4.12 31.12.2016	3,000
7.2.3	Support the establishment of the Kosovo Business Angels and VC Association (technical and financial support)		as	atute of the sociation, list of unding members	USAID	1.01 29.05.2017	8,000	
7.2.4	7.2.4 Create international linkage for the Kosovo Business Angels and VC Association (particularly with NVCA and EVCA)		M	bUs	USAID	1.06.2017 - 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 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- 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 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 organizations	KIESA, USAID Developmen	, EU, NMFA, 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 Banks			
Task act	ivities:							
No	Activity			D	eliverables:	Resp.	Timing	Budget
7.3.1	Provide preparatory trainings for IT start-ups / entrepreneurs participating in match-making / pitching events (business planning, finance, elevator pitch, etc.)				aining material, list participants	Developme nt Banks	2.03 30.04.2017	12,000
7.3.2	Conduct at least 3 B2B match-making events between investors and IT entrepreneurs			ogram, list of rticipants	Developme nt Banks	2.06 3.06.2017 / 1.06 2.06.2018 / 6.10 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 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 region (Si industry a In terms Therefore User sto	ternational bu outheast Euro as an attractiv of IT (particula e, such an eve ry & results nce criteria	usiness ar ope). At th re destina arly softw ent is likely As a Kos find inte The	to organize an interr agels and VC compan le same time this evention for investment. are) Southeast Europ y to attract a substan ovo IT start-up / com rnational investors (I VC4IT conference ha ompanies.	ies t ent v be is itial ipar busi	o invest in IT start-u vill increase the inter one of the most inn <u>number of internation</u> y I want to participa ness angels and VCs)	ps and compar mational visibi ovative and dy onal investors. te in the VC4IT for my busine	nies from Koso lity of the Koso namic regions conference in ss.	vo and the ovo IT in Europe. order to	
& indicatorsVC companies.Responsible organization (lead)STIKK / ICK					Partner organizations	MTI, KIESA, MZHE, MF, USAID, EU, NMFA, GIZ, SDC, Development Banks 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 conference (participants,	program,	financing,	Co	ncept	STIKK	15.10 6.11.2017	3,000	
7.4.2	Organize inte in Kosovo	ernationa	I VC4IT conference		ogram, list of rticipants	STIKK	9.11.2017 - 2.05.2018	20,000	
Comments The program of the VC4IT Pitching sessions Coaching sessions Expert presentation Discussion panels Good practice examples: Balkan Venture Forum: htt Belgrade Venture Forum:				s //w	ww.balkanventurefo	rum.org			
Team		n.a.							
Continuous n.a. Improvement									

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

Task No).	7.5	Task name		ntroduce specialized Intrepreneurs and st		coaching servio	e for IT
Priority		2	Predecessor tasks		-		% Complete	0%
Descrip	tion & rational	е						
start-up: service v	s with the nece	essary cap	specialized consultin abilities and know-he 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 h and manage my bu			sulting & coacl	ning services so	o that I car
Accepta & indica	ance criteria ators	oper	specialized consulting rational. east 20 Kosovo start-u	-	-			-
Responsible ICK / STIKK organization (lead)					Partner 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 s member companies (incubator) (e.g. nrough interviews and / or focus group)			eds assessment	ІСК / STIKK	1.04 17.04.2017	3,000
7.5.2	consulting & entrepreneu selection crit and tools an areas should Business Financin Marketir Operatio	Develop concept for the specialized consulting & coaching service for IT entrepreneurs and start-ups including selection criteria, focus areas, methods and tools and delivery model. Focus areas should include: Business planning Financing & accounting Marketing & sales Operations management Entrepreneurship & innovation			ncept	NMFA	20.04 20.05.201 7	8,000
7.5.3	Develop financial support scheme for the specialized consulting services for entrepreneurs and start-ups based on a voucher system (IT start-up vouchers)				ancial support neme	NMFA	21.05 29.05.201 7	2,000
7.5.4	Establish pool of suitable consultants and coaches (see Task 7.1 Mentoring committee)				t of consultants d coaches	STIKK	21.05 31.07.201 7	1,000
7.5.5	Conduct info specialized c 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		- 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 building & excellence progra		ents of the er	nterprise capac	city			
		Best practice examples: Cyberforum e.V. Start-up services: <u>http://www.cyberforum.de/angebote/fuer-gruender/</u> Bwcon Coaching & Finance: <u>http://www.bwcon.de/coaching_finance.html</u>							
Team		n.a.							
Continuou 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 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 organiza	ible tion (lead)	STIKK / I	СК		Partner 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 Entrepreneu			Se	lection Criteria	STIKK	1.05 5.05.2017	1,000	
7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony annually			Pro	ogram	STIKK	10.11 12.11.2017 / 11.11 15.11.2018	6,000		
Commer	Comments It might be advisable to cor 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 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 establish industrie private s mentorii	epreneurs in k ned in the form es (e.g. IT, teleo ector partners ng for the start	Kosovo, pa n of a pub communio s will incre t-ups.	ing a high-tech start- articularly during the lic private partnershi cations, energy, etc.) ease the leverage of t	ear p in anc he f	ly stage / seed phase cluding ministries, pr l development banks fund in terms of syne	. The high-tec ivate sector co . The PPP-app rgy effects, ne	h start-up fund ompanies from roach and the tworking, coad	l will be high-tech inclusion of ching and
User sto	ory & results		ovo IT start-up I wan t attractive conditior		_	•	-	
Accepta & indica	nce criteria itors	 The 	high-tech start-up fu	nd ł	nas been successfully	established.		
Responsible MZHE organization (lead)					Partner 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 h start-up fund		siness plan; asibility study	MZHE	1.06 15.09.2017	30,000
7.7.2	Establish and start-up fund		the high-tech	Decree on the establishment of the high-tech start-up fund; annual reportMZHE16.09.2017 – 30.12.2018			5,000,000	
Comme	Comments Best practice example: High-Tech Gruenderfonds			:tp:/	//www.en.high-tech-	gruenderfond	s.de	
Team	Team n.a.							
Continuous n.a. 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 out entrepreneurshi	•	e in the IT entrepren the IT industry.	eurship@scho	ol program so	that I can
Accepta & indica	nce criteria tors		IT entrepreneurship igh schools in Kosov		hool program has be	en successfull	y implemented	d in at least
Respons organiza	ible ition (lead)	MASHT			Partner 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 competition,	uding bus excursio	•	Pr	ogram	STIKK / ICK	1.10 30.10.2017	3,000
7.8.2	Implement I program	T entrepro	eneurship@school	Ev	aluation reports	MASHT	2.11.2017 - 30.12.2018	6,000
Comme	Comments -					•		
Team	Team n.a.							
Continuous n.a. 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 Exchange of b Access to fina Know-how tra Joint projects Business deve	 Access to finance Know-how transfer Joint projects 									
User story & results		keholder of ICK I want t with other incubators		-	-					
Acceptance criteria & indicators	 ICK s 	signed at least 6 MoUs	with incubators and in	novation cente	ers abroad.					
Responsible organization (lead)	STIKK / I	СК	Partner 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 port markets as	List of potential cooperation partners	NMFA, GIZ	2.09 30.09.2016	2,000		
7.9.2			l linkage for ICK nnovation centers	MoUs	ICK	1.10.2016 - 30.12.2018	5,000		
7.9.3	Develop and sponsorship	-	nt international for ICK	International sponsorship program	ICK	13.04.2017 - 30.12.2018	5,000		
Comments It is recommendable to estab also to accelerators, innovati agencies promoting IT entrep Best practice examples: German Silicon Valley Accele				on centers, IT-specific bu	isiness parks a	and IT clusters	and		
Team		n.a.							
Continuous n.a. 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 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). ³³ 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 & indicat	ice criteria ors			nts on the Horizon 2020 / or institutions have p		-				
Responsi organiza	ble tion (lead)	STIKK		Partner 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			

³³ 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 nformation ro IT industry	Information material (presentation)	STIKK	13.03 27.03.2016	3,000	
8.1.2	-		ormation events ram for the Kosovo	Program; list of participants	STIKK	27.03.2016 / 27.03.2017 / 28.03.2018	6,000	
 What is being funde What are the average Which forms of funde What are the officia Activities should be closely content 				rea of ICT for applicants for Horiz d and to what degree? ge success rates for appli ling do exist? I criteria?	on 2020 fundi cations? Competence	ng? center on EU	projects in	
Team		n.a.	ı.a.					
Continue Improve		n.a.						

5.1.8.2. Introduce capitalization of patents, licences and development costs

Task No.		8.2	Task name		ntroduce capitalizatio 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 & indicators The capitalization of pate successfully implemented					nts, licences and development costs according to IFRS has been					
Responsible organization (lead)		MF			Partner organizations	STIKK, MZHE, MTI, MASHT, EU, 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 standards and elaborate proposal for an amendment on introducing the capitalization of patents, licences and development costs			Proposal for amendment		MF	15.01 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 15.07.2018	3,000		
Commer	Comments								
Team		n.a.							
Continuous 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 particularly relevant			-					
					ant to benefit from tax incentives for investments into I can improve the innovation capability and competitiveness of						
Accepta & indica	nce criteria tors	• Tax	incentives for investr	nen	ts into innovation an	id R&D have b	een introduce	d.			
Responsible organization (lead)		MF			Partner organizations	STIKK, MZHE, MTI, MASHT, EU, 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 introduce ta	rnational best practices and oposal for an decree to x incentives for investments ion and R&D			oposal for decree	MF	1.05 30.06.2017	6,000			
8.3.2	incentives fo	Adopt decree on introducing tax incentives for investments into innovation and R&D			cree	MF	1.07 30.10.2017	3,000			
Law № 11.90 labour trainin For the purch products (IPI) develop softw licenses and r			ctice example: L1.908: permits a cor raining and R&D. purchase of equipme s (IPI), in addition to o software. There are a and royalties. Brasil IT+: <u>http://www</u>	nt u exei also	ised in R&D, there is nption from this tax tax reductions on ar	a 50% reduction for imports of mounts paid fo	on in the tax c materials use or technology	n industrial d to transfer,			
Team n.a.											

Task No.	8.3	Task name	Introduce tax incentives for investments into innovation and R&D
Continuous 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										
 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). Open innovation provides the following benefits for the IT industry: Collaboratively developing product innovations, process innovations and business model innovations User / customer integration in the development process Ensuring market fit of new products and services Using synergies Reducing the costs of conducting R&D Leveraging external knowledge and technologies Sharing risks 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. 										
User sto	ry & results		ovo IT company I wai 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 organization (lead)					Partner organizations	STIKK, UNIV, MZHE, MTI, KIESA, EU, 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 trainings on open innovation (methods, tools, processes, best practice examples)		tra of	aining materials; iining program; list participants; aluation reports	MASHT	1.09 25.09.2017 / 28.09.2017 / 1.04.2018 / 1.09.2018	12,000			
8.4.2	Develop and implement open innovation platform (web solution) to promote open innovation projects between IT		sp	quirements ecification; open novation platform	EU	2.02 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 tions, expert talks,	Program; list of participants	EU	5.10.2017 / 5.10.2018	6,000	
8.4.4	on an annua platform (e.	l basis (fo g. mobile g languag	vation Hackathon cus on specific apps), a specific e or framework or g. e-health))	Program; list of participants	STIKK	26.10 30.10.2017 / 24.10 28.10.2018	10,000	
Comme	nts	for appl STIKK / I for oper academ The train stakeho followin • • • • • • • • • • • • • • • • • • •	vities of this task nee ied R&D in strategic I CK together with the innovation based or ia. hing and capacity builders of the Kosovo I g topics should be co Introduction to oper Concepts and terms Application areas of Benefits and concer Open innovation pro Open innovation me Innovation, Idea Con Open innovation an Best practice examp nings on open innova ctice examples: ps Project: http://www. NTIVE: https://www. ti DEMOLA innovatio athon: http://www.t	T topics. Competence Centra close cooperation Iding on open inno Findustry in the are overed by the trainin in novation in open innovation of open innovation of open innovation s of open innovation ethods and tools (e. mpetitions, Co-Crea d IP oles ation should be imp ww.open-alps.eu innocentive.com n platform: http://w	ers for applied R between the IT vation should ad ea of innovation ngs: n and inside-out p g. Lead User Me ation, Crowd Sou	&D should serve industry, governi dress all relevant and applied R&D processes, coupled thod, Living Labs ircing, etc.)	as platform ment and . The d process) , Cross-	
Team		n.a.						
Continu 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). The IT innovation and R&D program will focus on the following strategic IT topics: Cloud Computing								
 Mobile Computing 								
 Big Data & Analytics 								

Task No		8.5	Task name	I	ntroduce IT innovatio	on and R&D pr	ogram	
÷	Industry 4.0 ((IT Security Open Source S E-Health E-Energy		sical-Systems) and E	Embe	edded Systems			
User sto	ory & results		earch projects for m		t to use the IT innova ganization together v			
Accepta & indica	nce criteria tors	 At le 	ast 3 R&D project p	ropo	rogram is fully opera sals by Kosovo IT cor d by the IT innovatio	mpanies / IT in		olders have
Respons organiza	sible ation (lead)	MASHT			Partner 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 uding procedures, ncing, etc.	Co	ncept	EU	1.10 30.10.2017	8,000
8.5.2		nd R&D p	events on the IT rogram (at least 3		ogram; list of rticipants	MASHT	2.12.2017 / 2.05.2018 / 2.12.2018	3,000
8.5.3 Implement the IT innovation and R&D program					oject proposals; aluation reports	MASHT, EU	15.01 30.12.2018	200,000
Comme	nts	-					•	
Team		n.a.						
	Continuous n.a. 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 Conducting a Trend scoutin Acquisition a Promoting Ra Helix") Fostering tec Developing in	shed with pplied R& Ig nd implen &D coope hnology t inovative	in universities or resea D for the Kosovo IT in nentation of joint R&D ration between compa ransfer IT solutions for other s	ers for applied R&D in strategic IT topi arch institutions and will fulfil the follo dustry projects (e.g. Horizon 2020) inies, public sector and academia on s sectors of the Kosovo IT industry (use er the following strategic IT topics:	owing functions:	: s ("Triple					

Task No		8.6	Task name		stablish Competence T topics	e Centers for a	pplied R&D in	strategic	
	IT Security Open Source S E-Health E-Energy cial Competend	uting alytics Cyber-Phy Software ce Groups	vsical-Systems) and E (OSS) 5 (see Task 6.10) con 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 At least 3 Competence Centers for applied R&D in strategic IT topics have been established. At least 6 Kosovo IT companies or public institutions have used the Competence Centers for applied R&D (joint R&D projects or contract research). 									
Responsible organization (lead) MASHT Partner organizations STIKK, UNIV, MIT, MZHE, KIESA, 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 &D in strategic IT	Pro	oposal	EU	1.07 31.08.2017	15,000	
8.6.2	Define resea Competence		/ topics for the	wi	t of research topics th evaluation port	MASHT, STIKK	1.09 30.10.2017	5,000	
8.6.3		-	the Competence &D including Living		oject proposals; aluation reports	MASHT	2.11.2017 - 30.12.2018	250,000	
8.6.4	research inst	itutions t	l linkage to similar o ensure exchange hnology transfer		operation reements (MoUs)	EU	2.09.2017 - 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 'y in order <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 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 nnovations with large			nology
User sto	ry & results				o participate in vendo rvice innovations wit			scuss
Accepta & indica	nce criteria tors	 At le 	ast 3 vendor roundta	able	s have been establish	ned.		
Responsible organization (lead) STIKK Partner 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 participants and IT	Co	ncept	STIKK	1.04 7.04.2017	1,000
8.7.2 Conduct vendor roundtables		Program; list of participants		STIKK	25.052017 / 25.05.2018 / 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 promotion)	marketing mat	erial (investme	ent	
Priority	/	2	Predecessor tasks	-			% Complete	0%	
Descrip	otion & rational	le							
industry IT indus	r. The marketin try as well as o	g materia n attracti	oration of marketing al will focus on the op ve framework conditi from the IT industry	por ions	tunities and competi (e.g. tax system). It	tive advantage will be designe	es provided by ed according th	the Kosovo	
User st	ory & results		tential foreign invest t information on the unities.			-		obtain	
Accepta & indic	ance criteria ators		pecific marketing mat roved by KIESA and S			motion has be	en elaborated	and	
Responsible KIESA organization (lead)					Partner 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 osovo IT industry	Pro	esentation (PPT)	KIESA	17.11.2016 - 30.01.2017	8,000	
9.1.2	Develop bro industry incl opportunitie	uding inv	the Kosovo IT estment	Br	ochure	KIESA	5.01 27.02.2017	10,000	
Comme	ents	advanta promoti	tent of the marketing ges) needs to be clos on of the Kosovo IT ir d as well as the corres	ely ndu	coordinated with the stry. A comprehensive	e marketing ma ve marketing a	aterial used for	export	
Team		n.a.							
Continuous n.a. 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 & branding concept% Complete 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 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 & indica	ance criteria ators	KIES	A website. ICT industry section of	section on the Kosovo ICT industry has been included in the on the KIESA-website has achieved a KPI of at least 150 visitors ,					
Respon organiz	sible ation (lead)	KIESA			Partner 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 information section on the Kosovo ICT industry in the KIESA website (e.g. under section "Investment Opportunities" / "Main Export Sectors"), including success stories, key contacts and links			W	ebsite section	KIESA	1.05 15.05.2017	2,000	
9.2.2				Links		KIESA	18.05 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. 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 task includes the introduction of financial and non-financial incentives for FDI in the Kosovo IT industry. FDI in the Kosovo IT industry is important with regards to job creation / employment promotion and technology transfer. Furthermore, local IT companies can benefit from the presence of international companies in Kosovo in terms of subcontracting / outsourcing (indirect internationalization).User story & resultsAs a potential foreign investor I want to use incentive schemes so that I can generate specific benefits for my investment in the Kosovo IT industry.									
		sovo IT industry stakeh IT sector.	older I want to use inco	entive scheme	es to attract FDI	to the			
Acceptance criteria & 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 practice exam	Conduct international (and particularly regional) benchmarking and identify best practice examples of incentives schemes for promoting FDI in the IT industry			nchmarking study	GIZ	15.01 27.02.2017	5,000	
9.3.2				Inc	centive scheme	MF	2.03 29.05.2017	5,000	
9.3.3	Implement in promoting F		scheme for Kosovo IT industry	Re	ports	MF	1.06.2017 - 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. 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 ation and advice on the aent activities in Kosovo	Kosovo IT industry and	-		o provide
Acceptance criteria & indicators	 The ever 	itable key account mar key account manager h nts / year and has cond ort clients.	as presented the Koso	vo IT industry		
Responsible organization (lead)	KIESA		Partner 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 manager	o descript	ion for key account	Job description	KIESA	1.12 5.12.2016	1,000
9.4.2	Select and er for the IT ind		account manager (IESA	Employment contract	KIESA	8.12.2016 - 27.02.2017	50,000
9.4.3	coaching and industry (ind	d training ustry stru	nanager with on the Kosovo IT octure, companies, e proposition, etc.)	Training documents	STIKK	2.03 27.03.2017	3,000
Commer	nts		account manager sho T industry.	ould be also involved in e	export promot	ion activities f	or the
Team		n.a.					
	n.a. 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 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 as a high-potential investment and outsourcing location.									
 Acceptance criteria At least two articles / year At least 3 information e year have been conduction 					•	dustry (focus:	investment pro	omotion) /					
Respons organiza	ible ition (lead)	KIESA			Partner 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 whitepapers (investment opportunitie	on the K and outs	osovo IT industry ourcing	Pu	blications	STIKK	2.03.2017 - 30.12.2018	10,000					
9.5.2					ograms of ormation events; as of participants	KIESA	3.04 7.04.2017 / 3.09.7.09.2 017 / 3.11 5.11.2017 / 4.02 8.2.2018 /	30,000					

Task No.	9.5	Task name	Conduct specialized market	ting & PR activities
Comments	· ·			3.06 7.06.2018 / 3.11 7.11.2018 e task 3.5 B2B match-making
	Whitepa particula Best pra Investor <u>content</u> Special e Outsour	arly effective. ctice example: 's Guide on Mexico's I <u>'uploads/2012/05/Me</u> emphasis should be pla cing Journal: <u>http://w</u>	T Industry: <u>http://nearshorea</u> xico-investment-guide-busin aced on publishing articles in	americas.com/wp- ess-technology-services-2012.pdf relevant media such as the articles should be also placed in
Team	n.a.			
Continuous 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 industry	needs of ICT co and generate	ompanies multiplie	(particularly MNCs),	will IT ir	ramework conditions attract additional inv ndustry. The Digital T ation.	vestment (FDI)	into the Koso	vo IT
User sto	ry & results	to get a		iewo	ant to establish my bo ork conditions, incent as more effectively.		•	
Acceptance criteria The Digital Tech Park is & indicators					operational by the er	nd of 2018.		
Responsible MTI, MZHE organization (lead)					Partner organizations	KIESA, MF, E Banks, privat	U, STIKK, Deve 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 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 neme (preferential and customs		lapted law on Free onomic Zones	MF	5.01 27.03.2017	10,000
9.6.2	Elaborate fea for the Digita		udy and concept rk		asibility study and ncept	Developme nt Banks	1.04 28.08.2017	100,000
9.6.3					gital Industry Park	Private investors, Developme	1.09.2017 - 30.12.2018	1,000,000 (public contributi

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

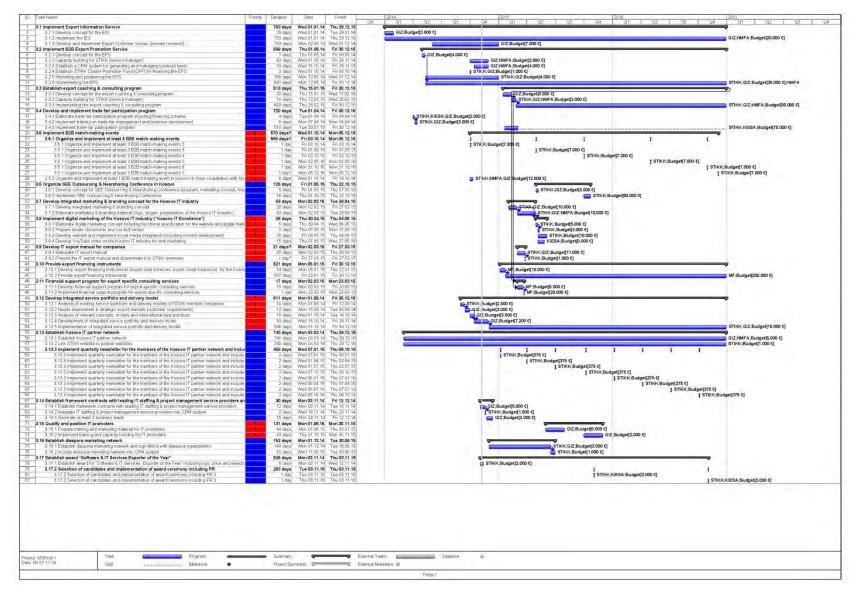
5.2.1. Timetable Strategic Pillar 1: IT Promotion Policy

1 2 3 4		Priority	Duration	Start	Finish	Q4	2014 01	02	03	I C	2015	0	02 03	3 04	201		2 03		017 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 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			

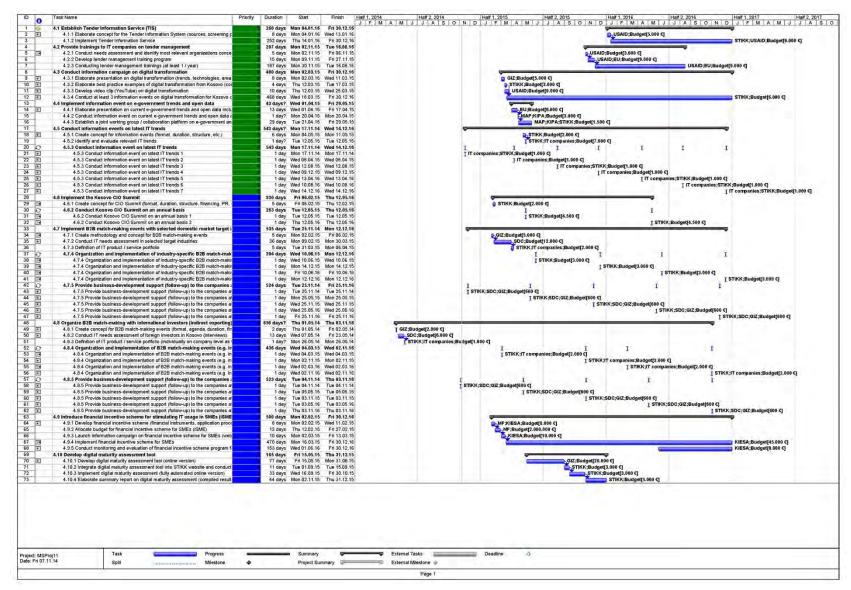
5.2.2. Timetable Strategic Pillar 2: Company Excellence & Quality

783 days 60 days 200 days 723 days 260 days 260 days 351 days 1 day 1 day 1 day 545 days? 455 days 1 day 415 days?	Wed 01.01.14 Wed 26.03.14 Wed 26.03.14 Wed 26.03.14 Mon 03.11.14 Thu 01.01.15 Mon 20.10.14 Fri 20.02.15 Mon 22.02.15 Mon 01.12.14 Mon 01.12.14 Mon 01.12.14	Fri 30.12.16 Tue 25.03.14 Tue 30.12.14 Fri 30.12.16 Fri 30.12.15 Wed 30.12.15 Mon 22.02.16 Mon 20.10.14 Fri 20.02.15	JIFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAISIOIN DIJFIMIAIMIJJAIS GIZ;Budget[3.000 €] STIKK;GIZ;Budget[20.000 €] STIKK;NMFA;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] STIKK;GIZ;Budget[1.000 €]
200 days 723 days 260 days 260 days 351 days 1 day 1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Wed 26.03.14 Wed 26.03.14 Mon 03.11.14 Thu 01.01.15 Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Tue 30.12.14 Fri 30.12.16 Fri 30.10.15 Wed 30.12.15 Mon 22.02.16 Mon 20.10.14 Fri 20.02.15 Fri 30.12.16 Fri 30.12.16	STIKK;GIZ;Budget[20.000 €] GIZ;Budget[5.000 €] STIKK;NMFA;GIZ;Budget[20.000 €] I STIKK;OIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €]
723 days 260 days 260 days 351 days 1 day 1 day 1 day 545 days? 65 days 65 days 1 day? 415 days	Wed 26,03,14 Mon 03,11,14 Thu 01,01,15 Mon 20,10,14 Fri 20,02,15 Mon 22,02,15 Mon 01,12,14 Mon 01,12,14 Mon 02,03,15	Fri 30.12.16 Fri 30.10.15 Wed 30.12.15 Mon 22.02.16 Mon 22.02.15 Mon 22.02.16 Fri 30.12.16 Fri 30.12.16 Fri 37.02.15	STIKK;NMFA;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €]
260 days 260 days 351 days 1 day 1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Mon 03.11.14 Thu 01.01.15 Mon 20.10.14 Fri 20.02.15 Mon 20.202.15 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Fri 30.10.15 Wed 30.12.15 Mon 22.02.16 Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Fri 30.12.16 Fri 27.02.15	Giz;Budget[5.000 €] I I STIKK;MIFA;Budget[20.000 €] I STIKK;Giz;Budget[1.000 €] I STIKK;Giz;Budget[1.000 €]
260 days 351 days 1 day 1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Thu 01.01.15 Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Wed 30.12.15 Mon 22.02.16 Mon 20.10.14 Fn 20.02.15 Mon 22.02.16 Fri 30.12.16 Fn 27.02.15	STIKK;NMFA;Budget[20.000 €] I STIKK;GI2;Budget[1.000 €] I STIKK;GI2;Budget[1.000 €] I STIKK;GI2;Budget[1.000 €]
351 days 1 day 1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Mon 20.10.14 Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Mon 22.02.16 Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Fri 30.12.16 Fri 27.02.15	I I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €]
1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Mon 20.10.14 Fri 20.02.15 Mon 22.02.16 Fri 30.12.16 Fri 27.02.15	I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €] I STIKK;GIZ;Budget[1.000 €]
1 day 1 day 545 days? 65 days 42 days 1 day? 415 days	Fri 20.02.15 Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Fri 20.02.15 Mon 22.02.16 Fri 30.12.16 Fri 27.02.15	I \$TIKK;GIZ;Budget[1.000 €] I \$TIKK;GIZ;Budget[1.000 €]
1 day 545 days? 65 days 42 days 1 day? 415 days	Mon 22.02.16 Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Mon 22.02.16 Fri 30.12.16 Fri 27.02.15	I STIKK;GIZ;Budget[1.000 €]
545 days? 65 days 42 days 1 day? 415 days	Mon 01.12.14 Mon 01.12.14 Mon 02.03.15	Fri 30.12.16 Fri 27.02.15	
65 days 42 days 1 day? 415 days	Mon 01.12.14 Mon 02.03.15	Fri 27.02.15	STIKK: GIZ: Budgett5 000 £1
42 days 1 day? 415 days	Mon 02.03.15		STIKK-GIZ-Budgett5 000 F1
1 day? 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 1 day 1 day 1 day? 1 day? 1 day? 1 day? 1 day? 1 day? 1 day? 1 day? 4 days 1 day? 4 days 1 day? 4 days 1 day? 4 days 1 day? 4 days 5 days 1 day? 4 days 5 days 1 day? 4 days 5 days 7 days 7 days 7 days 7 days 5 days 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 <</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 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 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 ⊺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 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	₽ _\ 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] STIKK;Budget[3.000 €]
		7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 1 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) imments on Horizon 2020 (CT facus) and elaborate information material for the Kosovo IT industry least 3 Information events on Horizon 2020 program for the Kosovo IT industry 1 at a least 3 information events on Horizon 2020 program for the Kosovo IT industry 2 at a least 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 3 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 6 information events on Horizon 2020 program for the Kosovo IT industry 3 attaleast 6 information events on Horizon 2020 program for the Kosovo IT industry 3 information between the capitalization of patents, licences and development costs trives for investments into innovation and R&D national best practices and adaptivestments into innovation and R&D involution system for the Kosovo IT industry II implement at least 3 trainings on open innovation (methods, tools, processes, bet and implement at least 3 trainings on open innovation (methods, tools, processes, bet and implement at least 3 trainings on open innovation (methods, tools, processes, bet and implement at least 3 trainings on open innovation (methods, tools, processes, bet and implement at least 3 trainings on open innovation (methods, tools, processes, bet and implement at least 3 trainings on open innovation (methods, tools, processes, bet and informent at least 3 trainings on open innovation (methods, tools, processes, bet and informent at least 3 trainings on open innovation (methods, tools, processes, bet and informent at least 3 trainings on open innovation (methods, tools, processes, bet)		533 days 11 days 523 days 1 day 1 day 1 day 1 day 131 days 43 days 88 days 131 days 88 days 455 days	Thu 13.03.14 Thu 13.03.14 Thu 27.03.14 Thu 27.03.15 Fri 27.03.15 Fri 15.01.16 Fri 15.01.16 Wed 16.03.16 Fri 01.05.15 Fri 01.05.15 Fri 01.05.15	Mon 28.03.16 Thu 27.03.14 Mon 28.03.16 Thu 27.03.14 Fri 27.03.15 Mon 28.03.16 Fri 15.07.16 Fri 15.07.16 Fri 15.07.16 Fri 30.10.15 Tue 30.06.15	In a MarAor a Jun Jul u e Oct o	I I STIKK;Budget(2.000 d	q Į такк "М.:Вид	001 [OF 3, 201] [OF 4, 201] [OF 1, 201] [OF 2, 201] [OF 3 Juni Jul u] e Oct[o] e Jan e MarApri a Juni Jul 1 Budget[2.000 C] get(0.000 C] WF;Budget[3.000 C]
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ation of patents, licences and development costs (JRR5) national best practices and standards and elaborate proposal for an amendment on intro iment on introducing the capitalization of patents, licences and development costs ratives for investments into innovation and R&D national best practices and elaborate proposal for an decree to introduce tax incentives so in introducing tax incentives for investments into innovation and R&D ovaition system for the Kosovo T industry I implement at least 3 trainings on open innovation (methods, tools, processes, best and implement at least 3 trainings on open innovation (methods, tools, processes, best		131 days 43 days 88 days 131 days 43 days 88 days	Fri 15.01.16 Fri 15.01.16 Wed 16.03.16 Fri 01.05.15 Fri 01.05.15	Fri 15.07.16 Tue 15.03.16 Fri 15.07.16 Fri 30.10.15			MF;Bud	get(6.000 ¢]
ation of patents, licences and development costs (JRR5) national best practices and standards and elaborate proposal for an amendment on intro iment on introducing the capitalization of patents, licences and development costs ratives for investments into innovation and R&D national best practices and elaborate proposal for an decree to introduce tax incentives so in introducing tax incentives for investments into innovation and R&D ovaition system for the Kosovo T industry I implement at least 3 trainings on open innovation (methods, tools, processes, best and implement at least 3 trainings on open innovation (methods, tools, processes, best		43 days 88 days 131 days 43 days 88 days	Fri 15.01.16 Fri 15.01.16 Wed 16.03.16 Fri 01.05.15 Fri 01.05.15	Tue 15.03.16 Fri 15.07.16 Fri 30.10.15			MF;Bud	get(6.000 ¢]
national best practices and standards and elaborate proposal for an amendment on intro timent on introducing the capitalization of patents, licences and development costs tritives for investments into innovation and R&D mational best practices and elaborate proposal for an decree to introduce tax incentives so on introducing tax incentives for investments into innovation and R&D ovaition system for the Kosovo IT industry Implement at least 3 trainings on open innovation (methods, tools, processes, best and implement at least 3 trainings on open innovation (methods, tools, processes, best		88 days 131 days 43 days 88 days	Wed 16.03.16 Fri 01.05.15 Fri 01.05.15	Fri 15.07.16 Fri 30.10.15			-	
Imment on introducing the capitalization of patents, licences and development costs ntives for investments into innovation and R&D national best practices and elaborate proposal for an decree to introduce tax incentives e on introducing tax incentives for investments into innovation and R&D iovation system for the Kosovo IT industry I implement at least 3 trainings on open innovation (methods, tools, processes, best and implement at least 3 trainings on open innovation (methods, tools, processes, best		88 days 131 days 43 days 88 days	Fri 01.05.15 Fri 01.05.15	Fri 30.10.15		φ	-	
national best practices and elaborate proposal for an decree to introduce tax incentives s on introducing tax incentives for investments into innovation and R&D novation system for the Kosovo IT industry I Implement at least 3 trainings on open innovation (methods, tools, processes, best and implement at least 3 trainings on open innovation (methods, tools, processes, best		43 days 88 days	Fri 01.05.15			-	-	
o on introducing tax incentives for investments into innovation and R&D novation system for the Kosovo IT industry I Implement at least 3 trainings on open innovation (methods, tools, processes, best 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 I Implement at least 3 trainings on open innovation (methods, tools, processes, be 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 I Implement at least 3 trainings on open innovation (methods, tools, processes, be 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 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 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]
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							STIKK;Budget[5.000 C]	
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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		*	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:

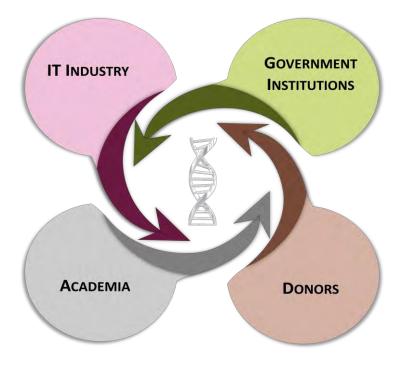


Figure 41: Stakeholder setting and "extended" triple helix

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

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, 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, 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.

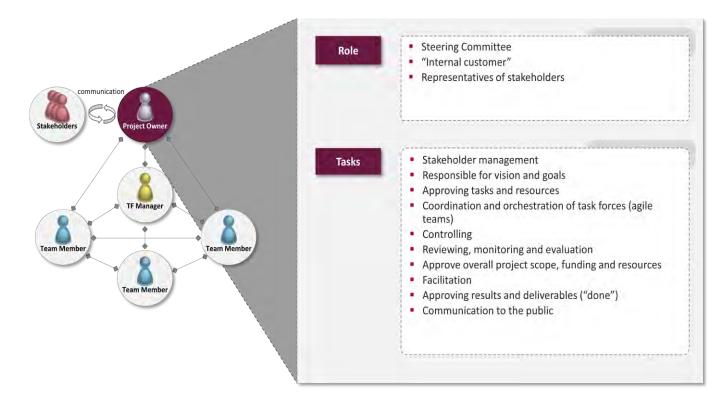
In this context, it deserves mentioning that STIKK will play a key role within the organizational structure and will provide a central platform for managing and coordinating the implementation of the Kosovo IT Strategy in close cooperation with other stakeholders.

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.

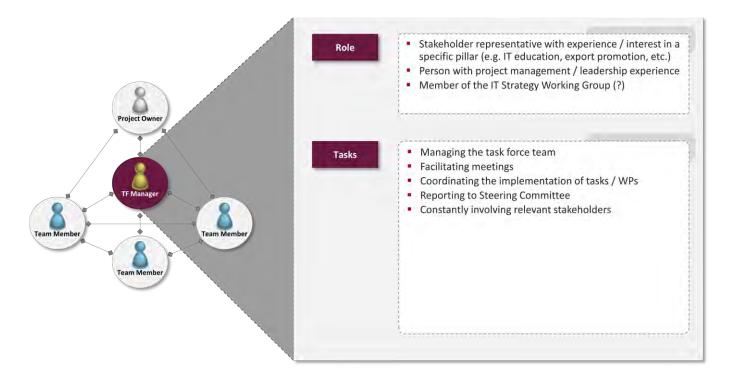
In order to further increase the organizational and operational effectiveness of STIKK, it will be enhanced into an IT cluster, thus allowing for a closer integration of key stakeholders such as universities. Such a cluster structure will enable STIKK to implement selected support measures of the IT 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:

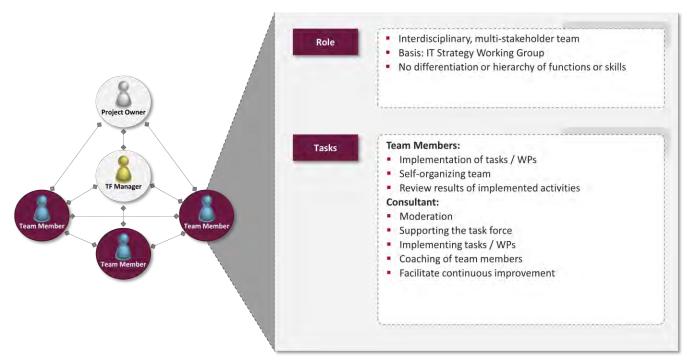


Figure 43: Organizational structure and agile team framework based on Scrum

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:

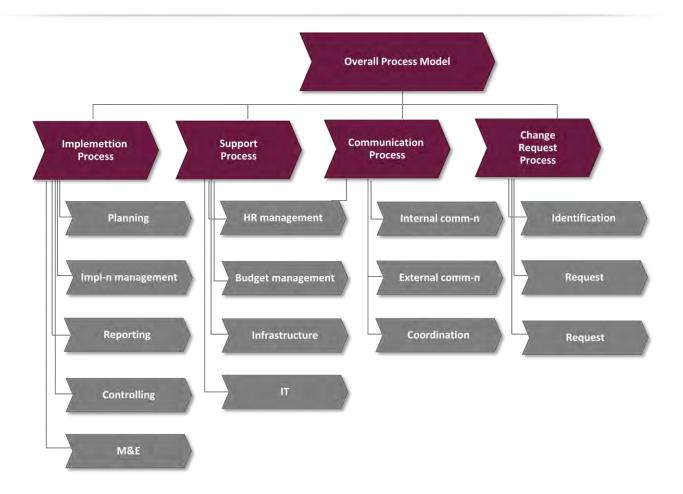


Figure 44: Overall process model for the implementation of the Kosovo IT Strategy

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.

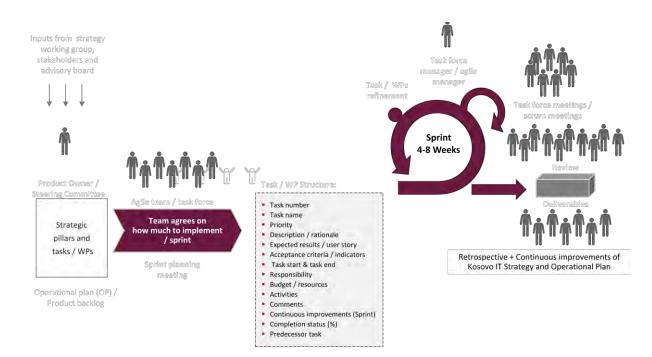


Figure 45: Agile process model for the implementation of the Kosovo IT Strategy.

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:

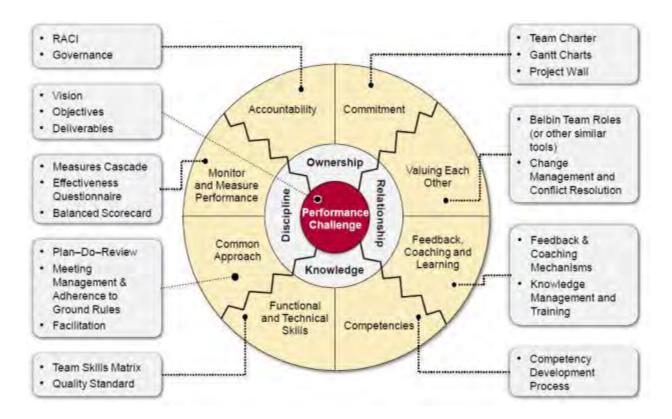


Figure 46: Key elements and tools of effective teamwork

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:

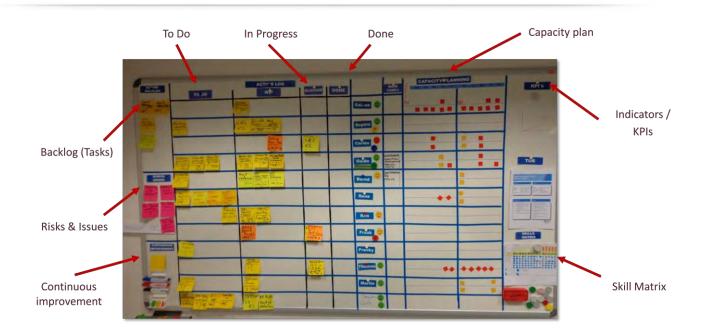


Figure 47: IT Strategy Scrum Board

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."³⁴

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	 Capacity building for public sector stakeholders Awareness raising campaigns, lobbying and PR Donor support Contingency plan and "critical path"
Recession in the domestic market	 Increasing export promotion Investment promotion Indirect internationalization
Recession in target export markets	Developing additional export marketsDomestic market development
Pull-out of donor organizations	 Multi-stakeholder approach Ensuring sustainability of support measures (e.g. cluster services through STIKK) Contingency plan and "critical path"
Massive brain drain	 Increasing support measures in the area of IT education Extending student placement service Awareness campaigns and information events on the attractiveness and opportunities of the Kosovo IT industry Implementing specific tax incentives
Massive increase in labour costs	 Increasing support measures in the area of IT education Promoting vocational education for IT Leveraging demographic development in Kosovo

³⁴ Hubbard, Douglas (2009): 46.

Increasing regional competition	 Increasing investment in company excellence and quality
	 Further increasing differentiation and focus Establishing strategic alliances (e.g. SEE IT initiative)

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

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

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."³⁵

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:

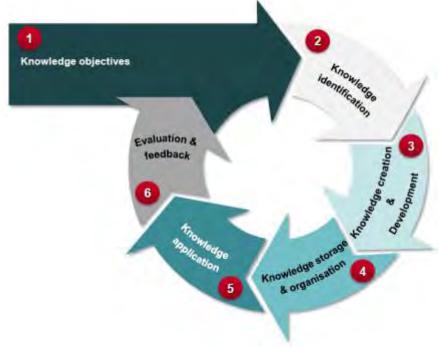


Figure 51: Knowledge management system

³⁵ 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	 Generating organizational knowledge for the Kosovo IT Strategy by transforming individual knowledge of stakeholders into collective knowledge Internalizing knowledge and know-how of all stakeholders involved in the development and implementation of the Kosovo IT Strategy Generating and disseminating knowledge relevant for the collaborative implementation of the Kosovo IT Strategy and the corresponding support measures (pillars 1-9) Using network effects and synergies Creating the basis for developing new, innovative support measures Knowledge areas: IT promotion policy, company excellence & quality, export promotion, domestic market development, IT education, IT clusters & collaboration, entrepreneurship, innovation & applied R&D, investment promotion, technology trends
2. Knowledge identification	 Identification of existing knowledge areas among stakeholders and creation of a knowledge map and MindMaps Identification of resource persons and experts Identification of knowledge gaps
3. Knowledge creation & development	 Identification of additional knowledge partner (universities, research institutes, IT clusters abroad, etc.) Generation of additional knowledge within the identified knowledge areas through workshops, conferences, study tours, trainings, cooperation with external partners etc. Conducting the Kosovo IT Industry Barometer on an annual basis
4. Knowledge storage & organization	 Definition of knowledge processes ("who is doing what") Knowledge storage (knowledge carrier / medium): SharePoint of the Kosovo IT Strategy, knowledge managers and resource persons in each task force Organization of knowledge dissemination Establishing a knowledge sharing culture among stakeholders and the members of the task forces / agile teams
5. Knowledge application	 Application of knowledge to the implementation of the Kosovo IT Strategy Promoting direct exchange of knowledge within and between task forces through joint events, meetings, trainings, etc. Integration of STIKK members into the knowledge

KM Elements	Measures & Tools					
	management systemProvision of good practice examples					
6. Evaluation & feedback	 Definition of indicators 					
	 Evaluating the achievements of knowledge objectives 					
	 Evaluation of knowledge management system 					
	 Getting feedback from task force members on the knowledge management system 					
	 Continuous improvement of the knowledge management system of the Kosovo IT Strategy 					

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:

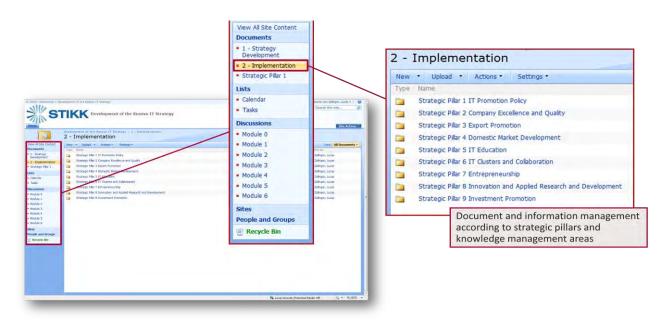


Figure 52: Knowledge and information management with SharePoint

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."³⁶

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.³⁷ 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

³⁶ Direktion für Entwicklung und Zusammenarbeit (DEZA) (1999): 22.

³⁷ 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
 M&E measures have to be conducted on different levels of the M&E system 	 Outcomes & impacts of implemented measures are often only visible after many
 To conduct M&E, it is often necessary to 	years
combine a series of methods	 Outcomes & impacts are often not directly
 It is important to have clearly defined responsibilities of stakeholders involved in 	linked to the inputs and activities ("attribution gap")
M&E activities	 Monitoring is mainly output-based and does
 Specific staff members who will be responsible for monitoring have to be appointed 	not consider how provided outputs were used and what related outcomes have been achieved
 Ensure close coordination between project management and M&E 	 Terminology related to M&E often not clear to all involved stakeholders

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."³⁸ 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, 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 grow by 30% within a period of 3 years					
		Employment in the Kosovo IT 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 companies interviewed evaluate the framework conditions for the IT industry as satisfactory					
	Strategic Pillar 2: Promoting company excellence & quality	At least 50% of Kosovo IT companies are certified according to ISO, CMMI or other internationally recognized quality standards					
	Strategic Pillar 3: Promoting exports of the Kosovo IT industry	Exports of the Kosovo IT industry increased by at least 30% within 3 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 by IT companies in Kosovo increased by 20% per year					
		Time to reach job readiness of					

³⁸ 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 by students with Kosovo IT companies grew by 20% per year					
		The satisfaction of Kosovo IT companies with the quality level of IT graduates increased by 15 % 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 with international IT clusters, associations or other relevant institutions					
		At least 1 cooperation project with other clusters or associations conducted per year (e.g. EU projects)					
	Strategic Pillar 7: Enhancing IT entrepreneurship	The number of business incubated start-ups increased by 30% per year					
		The number of business angels and VCs funded start-ups 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 direct investment (FDI) into the Kosovo IT industry generated 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 activity of a task according to the 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.

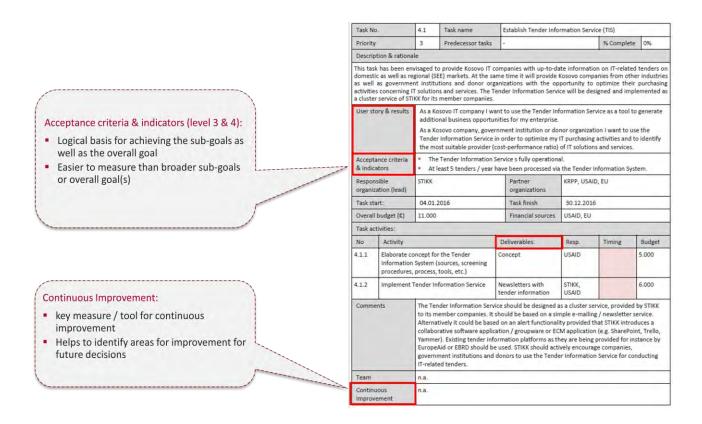


Figure 53: M&E system level 3 and 4

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.³⁹ The following chart describes the KITIB and its functionality:

³⁹ 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
	 Tool for monitoring & evaluation of IT industry performance
	 Providing accurate statistical information on the IT industry
Line Line 1 </td <td> Quantitative and qualitative data on company size, sales, exports, domestic market, technology profile, vertical specialization, HR, forecasts, etc. </td>	 Quantitative and qualitative data on company size, sales, exports, domestic market, technology profile, vertical specialization, HR, forecasts, etc.
Environmental and	 "Early warning system" for the IT industry
Image: Control of the state of the	 Can be used for monitoring and evaluating the effectiveness of our Kosovo IT Strategy
See The of Constant, in Centre III, If the Typical average control groups 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 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 4 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		