



Kosovo IT Strategy



Supported by:



The development of the Kosovo IT Strategy has been supported by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) and the Norwegian Ministry of Foreign Affairs

Document Author: IT Strategy Working Group

Contents

1.	Intro	oductio	n	6
	1.1.	Backgr	ound	7
	1.2.	Docum	nent Purpose & Objectives	9
	1.3.	Indust	ry Focus & Classification	10
	1.4.	How to	o use this Document (Structure)	11
2.	Met	hodolo	gy	13
	2.1.	Princip	les of the Kosovo National IT Strategy	14
	2.2.	Approa	ach and Phases	16
		2.2.1.	Collaboration	16
		2.2.2.	Agile methods	17
		2.2.3.	Strategic Fit	19
	2.3.	Organi	zation	20
	2.4.	Proces	ses	22
	2.5.	Tools		25
3.	Stra	tegic Ar	nalysis	28
	3.1.	Interna	al Analysis	28
		3.1.1.	IT Industry Capability Model	28
		3.1.2.	Key Problems & Challenges	41
		3.1.3.	Strengths & Capabilities	42
	3.2.	Extern	al Analysis	43
		3.2.1.	Analysis of potential Export Target Markets	43
		3.2.2.	Competitive Analysis	60
		3.2.3.	Customer Requirements & Key Success Factors	61
		3.2.4.	IT Macro Trends	64
4.	IT St	rategy	Development	65
	4.1.	Vision.		65
	4.2.	Goal Sy	ystem	66
	4.3.	Generi	c Strategy	68
	4.4.	Growt	h & Portfolio Strategy	75
	4.5.	Marke	t Entry Strategy	78
	4.6.	Strateg	gic Measures and Pillars	
		4.6.1.	Strategic Pillar 1: IT Promotion Policy	87
		4.6.2.	Strategic Pillar 2: Company Excellence & Quality	88
		4.6.3.	Strategic Pillar 3: Export Promotion	
		4.6.4.	Strategic Pillar 4: Domestic Market Development	90
		4.6.5.	Strategic Pillar 5: IT Education	91

		4.6.6.	Strategic Pillar 6: IT Clusters & Collaboration	92
		4.6.7.	Strategic Pillar 7: Entrepreneurship	93
		4.6.8.	Strategic Pillar 8: Innovation & Applied R&D	94
		4.6.9.	Strategic Pillar 9: Investment Promotion	95
5.	Stra	tegy Im	plementation	96
	5.1.	Operat	ional Plan	96
		5.1.1.	Strategic Pillar 1: IT Promotion Policy	99
		5.1.2.	Strategic Pillar 2: Company Excellence & Quality	111
		5.1.3.	Strategic Pillar 3: Export Promotion	121
		5.1.4.	Strategic Pillar 4: Domestic Market Development	136
		5.1.5.	Strategic Pillar 5: IT Education	147
		5.1.6.	Strategic Pillar 6: IT Clusters & Collaboration	160
		5.1.7.	Strategic Pillar 7: Entrepreneurship	169
		5.1.8.	Strategic Pillar 8: Innovation & Applied R&D	177
		5.1.9.	Strategic Pillar 9: Investment Promotion	184
	5.2.	Timeta	ble	190
		5.2.1.	Timetable Strategic Pillar 1: IT Promotion Policy	191
		5.2.2.	Timetable Strategic Pillar 2: Company Excellence & Quality	192
		5.2.3.	Timetable Strategic Pillar 3: Export Promotion	193
		5.2.4.	Timetable Strategic Pillar 4: Domestic Market Development	194
		5.2.5.	Timetable Strategic Pillar 5: IT Education	195
		5.2.6.	Timetable Strategic Pillar 6: IT Clusters & Collaboration	196
		5.2.7.	Timetable Strategic Pillar 7: Entrepreneurship	197
		5.2.8.	Timetable Strategic Pillar 8: Innovation & Applied R&D	198
		5.2.9.	Timetable Strategic Pillar 9: Investment Promotion	199
	5.3.	Organi	zational Structure	200
	5.4.	Proces	s Model & Project Management	205
	5.5.	Tools		208
	5.6.	Risk M	anagement	211
	5.7.	Change	e Management & Activation	212
	5.8.	Inform	ation & Knowledge Management	214
6.	Perf	ormanc	e Monitoring and Evaluation	219
			pring & Evaluation: Background	
	6.2.	Monito	pring & Evaluation System	220

Figures

Figure 1: Overview: Methodology for collaborative development of the Kosovo IT Strategy	14
Figure 2: Photos from collaborative strategy workshops	16
Figure 3: Phases and modules of the IT strategy development process	17
Figure 4: The agile approach of the Kosovo IT Strategy	18
Figure 5: Generating sustainable competitive advantages by ensuring "strategic fit"	19
Figure 6: The IT Strategy Working Group and the "Triple Helix"	20
Figure 7: Organizational structure for the development and implementation of the Kosovo IT	
Strategy	
Figure 8: The agile team framework	
Figure 9: Process for developing the individual strategy modules	
Figure 10: Roles and tasks in the strategy module process	
Figure 11: Open innovation	
Figure 12: SharePoint for the Kosovo IT Strategy	
Figure 13: Functionality of the SharePoint for the Kosovo IT Strategy	26
Figure 14: Strategic analysis	
Figure 15: The dynamic interaction of resources, capabilities and competitive advantages	
Figure 16: Competitive advantages	29
Figure 17: Potential of Export Markets	
Figure 18: ICT market value by segment (in € billion)	
Figure 19: ICT market shares by segment (2013, in %)	
Figure 20: ICT market value by segment (in € billion)	49
Figure 21: ICT market shares by segment (2013, in %)	50
Figure 22: ICT market value by segment (in € billion)	
Figure 23: ICT market shares by segment (2013, in %)	54
Figure 24: ICT market value by segment (in € billion)	
Figure 25: ICT market shares by segment (2013, in %)	
Figure 26: Positioning map with main competitors	61
Figure 27: Target groups and potential customer segments	62
Figure 28: Vision and goal system	65
Figure 29: Goal system of the Kosovo IT strategy	67
Figure 30: Porter's generic strategies	68
Figure 31: Tangible vs. Intangible differentiation	71
Figure 32: Digital transformation framework for the growth & portfolio strategy	76
Figure 33: Core product and service portfolio of the Kosovo IT industry	76
Figure 34: Ansoff-Matrix	77
Figure 35: Growth strategy framework	78
Figure 36: The five different export market entry options for the Kosovo IT industry	81
Figure 37: Strategy map with strategic pillars and tasks of the Kosovo IT Strategy	86
Figure 38: Structure of operational plan	97

Figure 39: Description and structure of work packages	
Figure 40: Key elements of the operational plan of the Kosovo IT Strategy	
Figure 41: Stakeholder setting and "extended" triple helix	
Figure 42: Organizational structure for implementing the Kosovo IT Strategy	201
Figure 43: Organizational structure and agile team framework based on Scrum	
Figure 44: Overall process model for the implementation of the Kosovo IT Strategy	
Figure 45: Agile process model for the implementation of the Kosovo IT Strategy	
Figure 46: Key elements and tools of effective teamwork	207
Figure 47: IT Strategy Scrum Board	
Figure 48: IT tools for strategy implementation	
Figure 49: SharePoint for the implementation of the Kosovo IT Strategy	210
Figure 50: Change management framework for the Kosovo IT Strategy	212
Figure 51: Knowledge management system	215
Figure 52: Knowledge and information management with SharePoint	217
Figure 53: M&E system level 3 and 4	
Figure 54: Kosovo IT Industry Barometer (KITIB)	
Figure 55: Evaluation criteria	

Tables

Table 1: ICT Market Overview Germany	44
Table 2: Software Market Germany	46
Table 3: IT Services Market Germany	46
Table 4: ICT Market Overview Norway	48
Table 5: Software Market Norway	50
Table 6: IT Services Market Norway	51
Table 7: ICT Market Overview Netherlands	52
Table 8: Software Market Netherlands	54
Table 9: IT Services Market Netherlands	55
Table 10: ICT Market Overview UK	56
Table 11: Software Market UK	58
Table 12: IT Services Market UK	59

List of abbreviations

Application deployment and development tools
Business process outsourcing
Compound annual growth rate
Chief information officer
Capability Maturity Model Integration
Customer relationship management
Germany, Austria and Switzerland
Development and deployment
European Information Technology Observatory
Enterprise resource planning
Foreign direct investment
Free and open-source software
German Agency for International Cooperation
Human resources
Innovation Center Kosovo
Internet of things
International Standard Industrial Classification of All Economic Activities
International Organization for Standardization
IT Industry Capability Model
Kosovo IT Industry Barometer
Management by objectives
Monitoring and evaluation
Multinational corporation
Norwegian Ministry of Foreign Affairs
Telekomi i Kosoves
Research and development
Swiss Development Cooperation
Small and medium enterprises
Swedish Ministry of Foreign Affairs
Kosovo Association of Information and Communication Technology
United Nations Standard Products and Services Code
Venture capital
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 Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) 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
6. 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:



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 STIKK Education, 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 org	anization is able to match its resources and capabilities

Figure 5: Generating sustainable competitive advantages by ensuring "strategic fit"

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:

H Teamsons > Development of the Kosovo Nation	curanitransponsetion β > C β Rame Standpoort of m	ntela		Document Management
An Contract An Contract An Contract An Contract Anness, Const Anness, Const	uting strategy on references society, 2008-0313 Teve Charge out 17 Each Francelon, 2007 Teve seg, 2012-2017 Teley, 2008 ang the values readigent nation, 2013 Teve	Ont-office by Billippions, Saner Billippions, Saner Billippions, Saner Billippions, Saner Billippions, Saner	Bit Consulting Consulting	Coordination
e 6 Announcements le 6 There are currently no as and Groups cycle tim Calendar B/15/0015-900.44 K			• None 7 • Add age 50. •	Project Management
0 3 6	8	-		Communication
				Knowledge Management

Figure 12: SharePoint for the Kosovo IT Strategy

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



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

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

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

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

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

3. Strategic Analysis

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

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



Figure 14: Strategic analysis

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

3.1. Internal Analysis

3.1.1. IT Industry Capability Model

In management science, several authors have stressed the importance of resources and capabilities for generating competitive advantages and developing sustainable competitive strategies.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 end-users 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 (e-energy). To a large extent, domestic demand in the public sector is donor driven and therefore not fully sustainable. Telecommunications 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
	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
Company capabilities	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 STIKK Education 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 Education 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 Education 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	2010 2011 2012 2013 2014*							
Telecom Services	3.6	3.6	3.6	3.7	3.7				
Total ICT	11.9	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

	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	y 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*						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	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
-------------	----------	--------	-------------

	Total IT services market value by segment 2010-2014 (in € billion)						lion)
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 2	2011-2014 (ˈin %)

					y segment.	2011 2014 (
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 valu	e by segment 20	010-2014 (in € bi	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%

	Tota	ICT market valu	ue by segment 2	010-2014 (in € bil	llion)
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 so	ftware market v	alue by segmen	t 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	າ %)	
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 s	ervices market	value by segmer	nt 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 ser		owth rates by seg (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

Differentiation

- 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

differentiation

Fo	cus
 Concentration on a few selected target mark 	ets/niches
 Due to concentration: organisation knows th their needs better than their competitors 	e target customer group so well that it meets
 Organisation can charge a substantial marku 	o over costs because of the value added
 Several software exporting countries have ac in which competition is less intense and in w 	lopted a focus strategy, concentrating on areas hich they have a comparative advantage
 Examples: Philippines (data entry services), In products) 	eland (specialized IT services), Israel (niche
 First mover as well as late entrant strategy 	
 To succeed in export markets, companies ne 	ed to specialize in the same specific niches
	ed to specialize in the same specific niches Concerns (-)
 To succeed in export markets, companies ne 	· ·
 To succeed in export markets, companies ne Benefits (+) Cluster effects through specialisation: 	Concerns (-) In-depth market and customer knowledge
 To succeed in export markets, companies ne Benefits (+) Cluster effects through specialisation: facilitates national branding 	Concerns (-) In-depth market and customer knowledge required
 To succeed in export markets, companies ne Benefits (+) Cluster effects through specialisation: facilitates national branding First mover advantages 	Concerns (-) In-depth market and customer knowledge required Flexibility and adaptability required

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) 	ort-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 products through an existing multinational client in the home market		
 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.	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 	nities for Kosovo software companies in terms mode of internationalization)	
Benefits (+)	Concerns (-)	
 Indirect access to foreign markets without overstretching resources 	 High transaction costs Lack of information on markets and end- 	

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

<u>_</u>	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
	 Establishing a "quality culture"
	 Improving access to finance
Tasks	2.1 Establish STIKK Education
	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 program2.8 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
Tasks	future of the Kosovo IT industry 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	ġ							
	Cyber secur	-									
		al CIO & ICT advisory for the government									
		innovation									
mpleme		ith the ot Kosovo I	her key stakeholders, Γ Strategy and will th								
a Nation National National	al CIO within t CIO will focus IT Promotion	he Minist on topics Agency w	ational capabilities of ry as well as the estal related to public IT r vill be to promote the s (IT sector promotion	blisl nan dev	nment 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	olog	y in order to promot		-				
Accepta & indica	nce criteria ators	 The 	ICT Ministry of Kosov	vo is	fully operational.						
Respon: organiza	sible ation (lead)	ZKM			Partner organizations	STIKK, MTI, MZHE, MAP, MF, EU, USAID, NMFA, GIZ					
Task sta	rt:	n.a.			Task finish	n.a.					
Overall	budget (€)	n.a.			Financial sources	GoK					
Task act		11.a.			Thancial Sources	OOK					
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	Legislative 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	-	position of National CIO within nistry of Kosovo			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 operatic recomm partners	getary reasons it might tage when the ICT Mi onal efficiency and cur endable to organize i ship (PPP). ctice examples:	nist stor	ry of Kosovo is fully ner 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	ommittee 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	nmittee 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	-	anize meetings / workshops of onal 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 Transfo			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.									
	 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		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%				
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 budget (€) 54,000					Financial sources						
Task act	ivities:										
No	Activity			De	eliverables:	Resp.	Timing	Budget			
1.4.1	-	lectual Pr	t measures to operty Rights (IPR) cement)	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: <u>http://www.saarland.de/doku</u>						<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 developers				
Priority		2	Predecessor tasks	-			% Complete	0%	
Descript	ion & rational	e							
	nale behind tl void brain drai		to increase the attra	ctiv	eness of the softwar	e industry for l	nighly qualifie	d IT experts	
User sto	ry & results		sovo IT company I wa Jualified IT experts.	ant 1	to use income tax inc	centives so tha	t I can attract	and retain	
Acceptance criteria & indicators The decree on income tax incentives for certified software developers has been adopte									
Responsible MF organization (lead)				Partner organizations	STIKK, MZHE				
Task start: 01.01.2017				Task finish	05.03.2017				
Overall I	Overall budget (€) 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	De	ecree	MF	9.01 5.03.2017	-	
Comments Best practice example: In 2001 the Romanian govern companies which employ cer attract qualified staff to local			tifie	ed programmers. This	s has proven to	o be an effecti	ve tool to		
Team		n.a.							
Continuous n. Improvement		n.a.							

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 stake procurement system more t						reform to mal	ke the public IT	-	
Accepta & indica	nce criteria itors		reform of the public I of the IT companies i od".		-			with	
Responsible organization (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		De	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 inte Interoperability Open Source Softwa Inclusion of local IT treatment for local a Quality standards Best practice example: Promoting Local IT Sector De http://unctad.org/en/Publica				re (f com com	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		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 manage 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 & indica	ance criteria ators	Met At le reco At le	east 30 civil servants hodologies until the east 30 employees of ognized IT standards a 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 inter	onally	
Respon organiz	sible ation (lead)	ASHI			Partner organizations	KRPP, KIPA, NMFA, GIZ	KRPP, KIPA, MZHE, STIKK, EU, USAI 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			D	eliverables:	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 rds and blic sector IT	Pro	oposal	ASHI	8.10 23.10.2016	12,000	
1.7.3	-	and meth	ding and training in nodologies for civil ersons)	Training material; list of participants		STIKK (STIKK Education) / ASHI	27.10.2016 - 30.12.2018	15,000	
1.7.4	Conduct capacity building and training in IT standards and methodologies for Kosovo IT companies (at least 30 people)				aining material; list participants	STIKK (STIKK Education)	24.10.2016 - 29.12.2018	15,000	
Comments Best practice example: National CIO: IT Standards an <u>http://www.cio.bund.de/Wel</u> Standards/architekturen_star			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	or 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 customs tariffs for IT equipment to reduce costs and to strengthen the competitive position of my company.									
Acceptance criteria & indicators The decree / law on reducing customs tariffs and V/ adopted.					VAT for IT equ	ipment has be	en		
Responsible MF organization (lead)		MF			Partner organizations	STIKK, MTI, KIESA, MZHE, EU			
Task sta	rt:	01.01.2	015		Task finish 28.04.2015				
Overall	budget (€)	n.a.		Financ		n.a.			
Task act	ivities:								
No	Activity			D	eliverables:	Resp.	Timing	Budget	
1.8.1	-	customs	roposal for the tariffs and VAT for	Le	gislative proposal	MF	1.01 31.03.2015	3,000	
1.8.2		t decree / law on the reduction of ms tariffs and VAT for IT equipment		De	cree / law	MF	1.04 28.04.2015	-	
Comments ⁻		•							
Team n.a.									
Continuous r Improvement		n.a.							

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								
differentiators and cor competitiveness of the National IT Quality Poli	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	er 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				eliverables:	Resp.	Timing	Budget	
1.9.1	or forum inc stakeholders			Working group member 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 I	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.	county 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	aroi	neter is being imple	mented on a	n 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	17.05.201	8	
Overall	verall budget (€) 20,000				Financial sources	GIZ		
Task ac	tivities:							
No	Activity	Activity			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		Questionnaire		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 Ke 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	 The initiative "IT 4 Social Inclusion" has been successfully implemented. 							
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 recognition, precision errors. Therefore STIKK and it autistic people, particularly in trainings and coaching. For the 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 Education

Task No.	2.1	Task name	Establish STIKK Education							
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 Education are as follows:										
 Identifying the specific training needs of STIKK member companies 										
 Developing a speci member companie 		ining program which is	customized to the specific needs and	d requirements	of STIKK					
 Ensuring the sustain 	inability a	nd affordability of the	training program							
 Providing specializ 	ed technio	cal trainings for memb	er companies							
 Providing specializ 	ed manag	ement trainings for me	ember companies							
 Serving as a One-S 	top-Shop	for learning and qualif	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 Educa	tion			
User sto	ory & results				to use the services of agerial capabilities of			r to	
Accepta & indica	ance criteria ators	At leAt le	east 6 trainings / yea east 75% of training p	r are oarti	n established and is being implemented cipants evaluate the or selected training t	with at least a trainings with	15 participants n "good" or "ex	cellent"	
Respons organiza	sible ation (lead)	STIKK			Partner Universities, NMFA, GIZ, USAID, SDC, organizations 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, U	USAID, SDC, EL	J, DDC	
Task act	tivities:								
No	No Activity				eliverables:	Resp.	Timing	Budget	
2.1.1	Develop con Education	lop concept for STIKK ation			ncept for STIKK ucation	GIZ	1.01 25.03.2016	3,000	
2.1.2	 Implementation of STIKK Education 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	Implement technical and management trainings			aining program, ining material, aluation forms	STIKK, NMFA, GIZ	26.03 30.12.2016	110.000	
2.1.4			nguage training in Ichlehrzentrum		aining program, aluation reports	GIZ	3.11.2016- 30.10.2017	5.000	
2.1.5	Develop and trainers (ToT Education	•	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		-	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 compa framewo training Please n	ting, WebEx, adobe versities in Kosovo a such as Coursera, ed anies as well as to th ork of task 3.1 "Imple program. ote: The concept of	conr s we dX o le ac eme the S	provide online traini nect or other tools; s Il as with providers o r Open HPI; training ademia; technology nt Export Informatio STIKK Education is ba id duplication of trai	trategic alliand of Massive Ope courses should and market tra- n Service" nee sed on the pri	ces should be e en Online Cour d be also open ends identified ed to be reflect inciples of subs	established rses to externa d in the red in the sidiarity	
Team		n.a.							
Continu		n.a.							

5.1.2.2. Introduce enterprise capacity building & excellence program

Task No		2.2	Task name	l	ntroduce enterprise	capacity buildi	ng & excellenc	e program
Priority		1	Predecessor tasks		-		% Complete	0%
Descript	tion & rational	е						
compani capacity services manager	es to further d building & exc	levelop th ellence 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	incr 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
USET SIC	ny & results		n so that I can improv					ce.
 Acceptance criteria The enterprise capacity At least 10 Kosovo IT conbuilding & excellence print 					nies have successfully		-	apacity
Responsible STIKK organization (lead)					Partner organizations	MZHE, MTI, O EU	GIZ, NMFA, SD	C, USAID,
Task start: 1.12.2016					Task finish	30.12.2018		
Overall budget (€) 336,000					Financial sources	GIZ, NMFA, S	DC, USAID, EU	
Task act	ivities:							
No	Activity			De	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 t	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		-	capacity building (15 companies)		nsulting reports, aluation reports	GIZ, NMFA, USAID	1.06.2017- 30.12.2018	300,000
Comme	nts	specializ as well a coordina take con	erprise capacity build ed training, coaching s individually. The pro- ation with the activition opanies approximatel companies (pilot pro-	and ogra es o ly 1	d consulting services am should be manag f the STIKK Education year. Calculations ar	which will be o ed by STIKK in n. Completing e based on a fi	delivered clust order to ensur the program w rst cohort of 1	er-based e close ould 5

	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 d	ifferentiator within tl	he k	Kosovo National IT S	trategy. The	National IT Qu	ality Forun
Prov	vide the platfor	m for de	veloping a National IT	Qu	ality Policy			
 Rais 	sing the awarer	ness on th	e importance of qual	ity ı	management in the I	T industry		
	ping Kosovo IT Ility institutions		stakeholders understa	and	global best practices	by collaborat	ing with intern	ational
			o IT companies on he			management		
			l lessons learnt on qu					
			panies abreast of the		-			
			ality-related topics s architectures throug					n, trainings
USET 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 et topics conducted / year			Js with at least 3 inte	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, N	IMFA, GIZ, SDC	
Task ac	ctivities:							
No	Activity			D	eliverables:	Resp.	Timing	Budget
2.3.1	Establish Na STIKK	tional IT Quality Forum with		co res	ganizational ncept (members, sponsibilities, ogram)	STIKK, GIZ	01.01.2017 - 02.02.2017	2,000
2.3.2			with international nt institutions	M	oUs	STIKK, GIZ	04.02- 10.02.2017	3,000
2.3.3	3 Organize information events, seminars and roundtable sessions on quality management topics in close cooperation with the STIKK Education		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	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 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	ators		Maturity Assessmen		•				
 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	gram		
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 criteriaThe quality managem& indicatorsAt least 15 Kosovo IT of internationally recogniliation					nies have been certif			or another		
Responsible STIKK organization (lead)					Partner organizations	MZHE, EU, U	SAID, GIZ			
Task start: 3.02.2017			17		Task finish	30.12.2018	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 c certification		nagement &		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 Education.			tion by bundling resc n Software Process Ir lity management & c	ourc npr	es and using synergio ovement Program).	es. Best practio	e example: M	PS.BR		
Team		n.a.								
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	е							
			ncing will provide K ort facilities and relev		vo IT companies wi institutions	th a guideline	e on corporat	te 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			
Respon organiz	sible ation (lead)				Partner organizations	Ministry of Finance, EU			
Task sta	irt:	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 deve			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	e							
 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	User 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 certi The 	 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	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		olish and manage the Kosovo IT rprise 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	MF 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 the awareness of the IT community and the public on the importance of company excland 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	1	mplement monthly n	ewsletter on l	atest technolo	gy trends
Priority		3	Predecessor tasks	-			% Complete	0%
Descript	ion & rational	e						•
trends in					e provided with accu ed decisions on the			
User story & results As a Kosovo IT company I want to get access to information on latest technology trends in 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						lemented		
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,		chnology wsletter 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 be newsletter should be also in			e de	signed as a STIKK serv	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 (participati in workshops, downloads of market analysis from STIKK Website / SharePoint, information requests submitted to STIKK) 									
Respons organiza	ible tion (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 & resultsAs a Kosovo IT company I v business development so t company and increase expAcceptance criteria & indicators• The B2B Export Informational 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	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	hing & consult	ing program	
Priority		2	Predecessor tasks		-		% Complete	0%
Descript	ion & rationa	le						<u>.</u>
advisory Promotic delivered	services on h on Service wh I individually	ow to inc nich 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 of program will allow	nformation Second	ervice and the onsulting prog	B2B Expor ram will be
User sto	ry & results		I can further improve		to participate in the e v export capabilities i			
Acceptance criteria & indicators At least 5 Kosovo IT cor consulting program								
Responsible STIKK, MZHE organization (lead)					Partner KIESA, GIZ, NMFA organizations			
Task start: 15.01.2017					Task finish	30.12.2018		
Overall	oudget (€)	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 tool t business rket acces	ne export coaching including Is (admission, plan, capacity Is & business	EC	CP concept	GIZ	15.01 11.02.2017	8,000
3.3.2	Capacity building for STIKK (service manager)		Tra too	aining documents, bls	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	admissic	on criteria need to be	def	viding coaching and o fined; a certain perce tionally this task cou	entage 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 Trade fair participation progra At least 5 Kosovo IT companie At least 2 contracts generated 					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, 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		Evaluation forms from trade fair participations		STIKK, KIESA	20.01.201 7- 30.12.201 8	75,000	
Comme	nts	industry	; well-balanced mixtu	ıre	should reflect the stra of large-scale interna rs (e.g. Where IT wor	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 & indicators At least 6 B2B match-n markets (DACH, NO, U At least 1 B2B match-n with Norwegian and G					; event has been con			-
Respons organiza	ible ition (lead)	STIKK			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.						
Continue Improve		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 market 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 n clients and to increase my exports.						ng			
Acceptance criteria & indicators• SEE Outsourcing & Neat • 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.							
Continu Improve		n.a.							

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

Task No		3.7	Task name		Develop integrated m Cosovo IT industry	arketing & bra	anding concep	t for the	
Priority		2	Predecessor tasks		-		% Complete	0%	
Descript	ion & rational	е					1		
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 st	. 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 wa					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 Pa	ater	ial elaborated: Logo,		ntation of the	Kosovo IT	
Responsible STIKK organization (lead)				Partner organizations	IPAK, GIZ, NMFA, USAID, KIESA				
Task start: 2.02.2017				Task finish	28.04.2017				
Overall	oudget (€)	20,000			Financial sources	IPAK, GIZ, NN	MFA, 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 pranding 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	I	mplement digital ma	rketing of the	Kosovo IT indu	istry
Priority		1	Predecessor tasks		3.7 Integrated marke branding concept	eting &	% Complete	0%
Descript	tion & rational	e						
industry the Koso The web investing proposit	Based on the vo IT industry site will serve ginto the Koso ion and key b	e results o will be im as a land ovo IT indu enefits, c	ting is a useful and f Task 3.7 Integrated plemented, including ding page / one-stop ustry. Hence, the web ompany profiles and n-making service) and	l ma g we o-sh osite ser	arketing & branding of 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	I marketing m n and YouTub tsourcing to k sovo IT indust	easures for e video. Cosovo or in ry, its value
User story & resultsAs a Kosovo IT company I w marketing instrument so th joint marketing and brandin As a Kosovo IT industry stat the industry online.As a potential client I want industry and suitable outso					an present my comp proach. der I want to use the e the website to obt	any to potenti e website for m ain informatio	al clients base narketing and n on the Kosov	d on a oranding
Acceptance criteria & indicators					-		Ι	
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:							
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); condue	implement social cluding 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 b ctice examples: cing to Russia: <u>http:/</u> +: <u>http://www.brasil</u> c need to be closely c on.	CT N /ww itpli	Ministry or Agency sh ww.outsourcingrussia us.com/brasilit/Ingle	ould be closel . <u>.com/</u> s <u>/index.php</u>	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				iduct IT expor	ts and with	
User sto	ory & 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 been developed and disseminated to St companies At least 30% of STIKK member companies use the IT export manuactivities 									
Responsible STIKK organization (lead)				Partner organizations	IPAK, NMFA, GIZ				
Task sta	rt:	2.032	7.03.2017		Task finish				
Overall	budget (€)	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 l 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								
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			Partner organizations	MZHE, KIESA	., EU			
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 n.a. Improvement										

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 Kosovo IT companies with financial subsidies for export-specific consulting services, once donor support for task 3.3 "Establish export coaching & consulting program" is phasing out.								
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	Financial sources MF		
Task activities:								
No	Activity			D	eliverables:	Resp.	Timing	Budget
3.11.1	Develop financial support program for export-specific consulting services		co ap	plementation ncept including plication cuments	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, of Companies need to fulfil elig be based on a cost-sharing n 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	0	Develop integrated se	ervice portfolio and delivery model				
Priority		1	Predecessor tasks	(1)	3.2		% Complete	0%		
Descript	ion & rational	е								
nearshor export cli range of Thus, STI ranging f	ing) by integra ents will get a technologies a KK becomes a rom IT consul	ating the access to a and progr a one-stop ting, desi	the notion of creatin different capabilities a large pool of qualifi amming languages, a p-shop providing an i gn and specification f 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 thThe	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			D	eliverables:	Resp.	Timing	Budget		
3.12.1	Analysis of e	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	 Kosovo IT promotion network established with at least 30 key contacts in Europe and the US (database) At least 9 Memoranda of Understanding (MoUs) with international cooperation partners (IT associations, clusters, universities, etc.) signed 								
Respons organiza	ible tion (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			D	eliverables:	Resp.	Timing	Budget		
3.13.1	3.13.1 Establish Kosovo IT partner network				tabase, MoUs	GIZ, NMFA	3.03.2016 - 29.12.2018	5,000		
3.13.2	Link STIKK w	ebsite to	bsite to partner websites Links STIKK 3.03.2016 1,000							

Task No.	Task No.3.13Task 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:	03.11.2	03.11.2016 Task finish 12.12.2016								
Overall budget (€)	9,000		Financial sources	GIZ						
Task activities:										

Task No.		3.14	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	Establish frai leading IT sta managemen	affing & p		Signed framework contract	GIZ	3.11 18.11.2016	5,000			
3.14.2	-	te IT staffing & project ement service providers into CRM		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 IT promoters					
Priority		1	Predecessor tasks				% Complete	0%		
Descript	ion & rational	е								
	aches of Kosc n markets.	ovo's emb	assies and consulate	s wi	II be trained to serve	as promoters	of the Kosovo	IT industry		
User sto	ry & results				lder I want to use the industry on export r	•	to support the	e branding		
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										
Respons organiza	ible ition (lead)	STIKK Partner Ministry of Foreign Affairs, GIZ, organizations NMFA, MZHE								
Task sta	rt:	1.06.20	17		Task finish	30.11.2017				
Overall	oudget (€)	10,000			Financial sources	GIZ, NMFA, S	MFA			
Task act	ivities:									
No	Activity			D	eliverables:	Resp.	Timing	Budget		
3.15.1	Prepare trair 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 ı building	-	che	s in Prishtina should	be used for tra	ining and capa	acity		
Team		n.a.								
Continuous n.a. Improvement										

5.1.3.16. Establish diaspora marketing network

Task No		3.16	Task name	E	stablish diaspora ma	rketing netwo	ork	
Priority		2	Predecessor tasks				% Complete	0%
Descrip	tion & rational	e						
			trategic export mark eeds to be closely inte					n important
User sto	ory & results	contact As a Ko	sovo IT company I wa s for business develo sovo IT industry stake ng and positioning of	pm ehol	ent on export market der I want to use the	S.		
 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 								
Responsor	sible ation (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 tablished. 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 Exporte	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		east one article or ne azine, TV) / year.	ews (coverage in one of Ko	osovo's lead	ing media (news	paper,
Respons organiza	ible ition (lead)	STIKK			Partner organizations	MZHE		
Task sta	rt:	3.11.2016			Task finish	3.11.2018		
Overall	oudget (€)	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	es and Pard ceremony	Article / news coverageSTIKK, KIESA3.11.2017 / 3.11.20186,000				
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	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	Description & rationale									
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	addition As a Kos	nal business opportuni sovo company, govern	ment institution or donor organization	on 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			rvice is fully operational. we been processed via the Tender In	formation Syste	m.					

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:	04.01.2	018		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 Serve to its member companies. It Alternatively it could be base collaborative software applie 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 intro (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 can successfully participate in national as well as international tenders.							
Acceptar & indicat	nce criteria tors	beer	n elaborated.		ng program and the o successfully complete		-			
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 c	on tender man	agement
	IT-related te domestic ma	nders (foo irkets), ba	ations concerning cus on regional and used 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	velop tender management training ogram (key topics: tender evaluation, der procedures and requirements, hnical proposal writing, elaborating ancial 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		der management trai on (see Task 2.1).	ning should be integrate	ed into the pro	ogram of the ST	ГІКК
Team		n.a.					
	Continuous n.a. Improvement						

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 to 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	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, soc 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	е	2							
IT industry with regard This task will promote	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	sovo IT company I want that I can develop corr blic actor I want to lear	esponding IT application	ons.					
	that I ca	an effectively promote	corresponding projects	and IT application	ations.				
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	0.	4.4	Task name		mplement information pen data	on event on e-	government t	rends and
organiz	zation (lead)				organizations			
Task st	art:	01.04.2	017		Task finish	29.05.2017		
Overall	Overall budget (€) 10,500				Financial sources	ASHI, USAID,	, EU	
Task ac	ctivities:							
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 octice 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.						
	HOUS	-						
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									
Acceptance criteria & indicators		ast 3 information ever icipants / event.	tion events / year have been conducted with a minimum of 30 nt.						

Task No		4.5	Task name	C	Conduct information	events on late	st IT trends		
Respons	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	e Kosovo CIO Summit					
Priority	2	Predecessor tasks	-		% Complete	0%			
Description & rational	le								
	e Kosovo CIO Summit is supposed to serve as a platform for joint networking, exchange of experience, expert scussions 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		1	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	ty			eliverables:	Resp.	Timing	Budget	
4.6.1		Create concept for CIO Summit (format, duration, structure, financing, PR, etc.)			oncept	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	
v		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			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-makin new clients and business partners from other industries.As a company from the non-IT sector I want to participate in B2B order to identify suitable providers of IT solutions and services.						ies. ipate in B2B m		
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)			PartnerIndustry Associations, ClusterorganizationsChambers, KIESA, MTI, GIZ, NISDC, USAID, EU, MZHE			,	
Task star	Task start:		25.11.2016		Task finish	12.12.2018		
Overall b	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		essment 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 more the whole task of STIKK (cluster serv- ion of such a service and Toolbox (5.1) for 2011-0475en-it-sect anding the specific re- tes is a key success far ation with a vertical f cation and process k factor and important	olutions	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 gaged 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	Priority 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. AmCham KDWV, WKO),Embassies, KIESA, I 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						
Comments	Comments The match-making events should be organized and implemented in close cooperation we the corresponding foreign chambers of commerce (e.g. WKO, KDWV, AmCham, etc.). It is important to communicate effectively the business case / benefits for international investors resulting from a cooperation with Kosovo IT companies (e.g. local IT know-how cost reduction, etc.). Based on the results of the needs assessment, STIKK needs to decide whether to organize the B2B match-makings on a vertical (industry-specific) basis.								
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	•		
-	ponsible KIESA anization (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 schempurchase, implementation arform 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://innce				d management. Finan oftex.br ity CFC: nsg/featured/s42m-se nsg/egov-sectors/saas	cial incentives	s should be prov for-sme-produc	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 sa	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	es on the importance v local companies to a l technologies. llows STIKK and the K es 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, U	JSAID	
Task acti	vities:							
No	Activity			De	eliverables:	Resp.	Timing	Budget
4.10.1	Develop digital maturity assessment tool (online version)			-	Digital maturity GIZ 15.05 assessment tool 31.08.2017			20,000
4.10.2	4.10.2 Integrate digital maturity assessment tool into STIKK website and conduct information event with press conference				Website section, program of 15.09.2017 15.09.2017			3,000

Task No		4.10	Task name	Develop digital maturity assessment tool					
4.10.3	Implement of (fully autom	-	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 assessm 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			ıta		
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	ement continuous improvement system for IT ation 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		As a Kosovo IT industry stakeholder I want to use the continuous improvement system for IT education in order to promote human resource excellence in Kosovo.								
Acceptance criteria & indicators	 Reco publ At let 	continuous improveme ommendations on IT ed lished on an annual bas east 3 recommendation n implemented until the	ucation curricula in Ko is. s of the competence g	sovo are bein	g elaborated an	d				
Responsible organization (lead)	STIKK	STIKK Partner UNIV, MASHT, National Qualification organizations Agency, SDC, NMFA, EU, USAID, GIZ								
Task start:	01.04.2	01.04.2017 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	ence 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 Jla 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 qualificati 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 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 in	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 r ula against co	regular basis (anı	nually).
		manage capabilit	ment, project manag ties") should be taker	neering skills, also capa ement as well as vertic n into account (see also	al business p results of th	rocess know-hov e external analys	w ("hybrid sis).
		lectures (see Tas	by IT professionals, uk 2.1) in order to use		erate closely	with the STIKK I	Education
		latest te	chnology trends inclu	delivered by IT profess uding mobile computing ment, big data & analyt	g, cloud com		

Task No.	5.1	Task name	Implement continuous improvement system for IT education in Kosovo
	Softward http://w Recomm	ww.basscom.org/activ nendations for IT educa	is for the Bulgarian education system: i <u>ties?mi=4</u> ition by the German Informatics Society: ikationen/empfehlungen.html
Team	n.a.		
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 At least 6 international a At least 6 IT professors to teaching at universities At least 30 students have 				om 1 Ko	universities in Weste sovo.	ern Europe or t	he US have be	een		
•	Responsible MASHT organization (lead)				Partner organizations	UNIV, STIKK, EU, GIZ	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		blish network of Kosovo academics king 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.	Task No. 5.2		Task name	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	e (SPS)		
Priority		2	Predecessor tasks	-			% Complete	0%	
Descript	tion & rational	е							
The main	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 & resultsAs 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.									
-					Service (SPS) has been implemented as a cluster service of STIKK. aduates per year find a job / internship through the Student				
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	Develop service concept for the Student Placement Service including service description, features, customer benefit, delivery mode, process model, templates, financing		Se	rvice concept	GIZ	15.01 30.01.2017	3,000		
5.3.2	5.3.2 Implement Student Placement Service, including integration into STIKK job exchange (see Task 6.6)			Job / internship STIKK 2.02.2018 offers		2.02.2018	6,000		
5.3.3	Develop and implement special Student Placement Service for Kosovo students studying abroad				tension of the rvice concept; job / ernship 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	I	ntroduce Kosovo IT s	cholarship pro	gram		
Priority	y	1	Predecessor tasks	-			% Complete	0%	
Descri	ption & rational	e							
are beiı	ng financed by t ter science and	he 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 schola	arship progran	n in order	
Accept & indic	ance criteria cators								
•	Responsible STIKK organization (lead)				Partner organizations	UNIV, MASHT, IT companies, NMFA SDC			
Task st	art:	1.12.20	16		Task finish	30.12.2018	8		
Overal	l budget (€)	91,000			Financial sources	IT companies	, NMFA, SDC		
Task a	ctivities:								
No	Activity			D	eliverables:	Resp.	Timing	Budget	
5.4.1	scholarship p	op concept for the Kosovo IT rship program (application ss, selection process, financing,		Со	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 a 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 & indicators• The STIKK competence ass • At least 100 students have 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	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	e						
					stem for IT-related d n the Kosovo IT educa		ns at Kosovo u	niversities
User sto	ory & 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 th er science degree pro		niversity ranking syste m for me.	em (IT) as a too	ol for selecting	a suitable
Acceptance criteria & indicators• The university ranking system (IT) has been impl • At least one university ranking (IT) has been con							e end of 2018.	
Respons organiza	sible ation (lead)	(lead)			Partner organizations	UNIV, MASHT, EU, NMFA, GIZ		
Task sta	rt:	4.01.20	18		Task finish	30.12.2018		
Overall	budget (€)	11,000			Financial sources	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: <u>http://www.</u>			ie-ra	inking.de			
Team		n.a.						
Continuous n.a. Improvement Improvement								

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 & 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 a	and distance le	earning IT edu	cation	
competi compete Hence, t	tiveness of the ences are quicl his task will pr ty degree while	e Kosovo l 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 qualificatior rning IT education, al	oncerning tech a key success lowing profess	nnical skills and s factor. sionals to obta	iin a	
to im expe As a the s As a			ovo IT industry stake we the qualitative an ovo IT company I wa and capabilities of n fessional I want to us ty 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 listance learni	n Kosovo in ter ng programs t	o improve	
Accepta & indica	ance criteria ators		east two new part-timest (Bachelor, Maste						
Respon organiz	sible ation (lead)	UNIV			Partner organizations		IT, National Qu USAID, NMFA,		
Task sta	nrt:	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 cur distance lear		part-time and lucation	Cu	rricula	UNIV	1.02 30.03.2018	10,000	
5.8.3	Implement p learning IT e		and distance programs	Re	ports	UNIV	31.03 30.12.2018	60,000 (initial funding)	
synergies. It is recomm abroad whic implementin this would a Strategic coo should be es Cou edX The prov			a needs to be closely s. Immendable to estab which also have the n enting part-time and Id also promote know c cooperations with r be established such as Coursera: https://www.ed The Website of STIKK providers. ctice examples: I: https://openhpi.de	llish lece dist w-ho eno s: vw.c lx.or (/ST	academic cooperations ssary know-how and ance learning IT educ ow transfer to Kosove wned providers of M coursera.org	on / strategic a experience in ation program o. assive Open C	alliances with a developing ar ns. In addition Online Courses	universities nd to that,	
Team		n.a.		-					
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	itute of Digital	Technology (P	PP)
Priority		3	Predecessor tasks	-			% Complete	0%
Descrip	tion & rational	e						
• • • The KID	Bundling the operation of the operation	competer d coordin the Comp rdisciplin gital trans cablished As a Kos	echnology (KIDT) will ices in the area of dig ating IT education etence Centers for a ary research formation in Kosovo within a future ICT M ovo IT industry stake ote digital transform	gital ppli <u>inis</u> holo	technology ed R&D in strategic I try. der I want to use the	T topics (see T	ite of Digital Te	
Accepta	ance criteria	applied	-					
& indic	ators							
	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	DUs	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		pplied		
Team		n.a.						
Continu Improv		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	g 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
Acceptance criteria & At least 2 university alliance programs have been implemented until the end of 2018 & indicators								of 2018.
Respons organiza	onsible UNIV hization (lead)				Partner organizations	MASHT, STIKK, National Qualificatio Agency, EU, USAID, NMFA, GIZ		
Task sta	rt:	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
Comments It is advisable to also in and PMP into universit Best practice examples SAP University Alliance alliances		P into university alliaı ctice examples: 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		
Acceptance criteria • At least 2 vocational tra & indicators					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: Germany: Software Cluster			g, Organizational stru ng, project & process lge management. ctice examples:	training should inter alia cover the following topics: Business ucture, quality management, IT cluster services, cluster as 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					
		ative industries) in order to enlarge STIKK's membership base. However these related ustries 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	e Kosovo IT industry tablishing an interna from the internationa K on strategic decisic	tion al IT	al advisory board winindustry, politics and	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			international	advisory board	l 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 organizations	MTI, MZHE, GIZ, NMFA, USAID, EU, SDC			
Task start: 1.12.2016				Task finish	24.10.2018	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	th	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 ar 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	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: T	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 progr	am	
Priority		2	Predecessor tasks	-			% Complete	0%
Descript	ion & rational	e						
/ consort well as jo	ia, a special cl bint research a	uster pro Ind marke	IT Cluster of Exceller motion program sho ting projects. In addi trategic cooperation	uld tior	be introduced includ n to that public tende	ling grants for er procedures	cluster manage	ement as
User sto	ry & results		ovo IT company I wa te with other company ely.			•		
Accepta & indica	nce criteria tors		am has been success mitted by STIKK has					
Respons organiza	sible ation (lead)	MZHE			Partner organizations	MTI, STIKK, K	(RPP, EU	
Task sta	t: 2.02.2017				Task finish	30.09.2017		
Overall	l budget (€) 35,000				Financial sources	EU		
Task act	ivities:							
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	pmotion program		oject proposals oplications)	MZHE	2.03 29.05.2017	30,000 (IT industry)
6.5.3	Adapt tende clusters / co	-	res to promote		apted tender ocedures	KRPP	1.09 30.09.2017	2,000
Comments It is advisable to design and i industries of the Kosovo ecou industries), where the Kosov Best practice examples: Germany: Go Cluster: http:// Latvia: http://www.itbaltic.co companies					y or a group of selec sector is eligible to s w.go-cluster.de	ted industries ubmit project	(e.g. high-tech proposals.	I
Team		n.a.						
Continu Improve		n.a.						

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						
intranspa manage	arent labour m the hiring proc	narket and cess. In or	aff is one of the key o d lack of employer br der to address this is nies. The job exchan	and sue	ing. Besides, most IT in a collaborative ap	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			ge in order to i	identify and hi	re suitable
Acceptance criteria & indicators• The job exchange within the STIKK website has been successfully implemented • 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	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		o 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>I</u> cluster.com/de/karriere/joby			tegr http	ated in STIKK's servic	e portfolio.		Г	
Team		n.a.						
Continu 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	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 on 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	ort the organization and mentation of the Software om Kosova Conference on an Il 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	17	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 of 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	efine 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	os for strategic	IT topics
6.10.4	- ·	G meetin	of international gs (presentations,	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	idustry. 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	nuous n.a. ovement						

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	t: 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 internation quality standards so that participants would be also able to participate in international standards are shown as the standard standards are shown as the standard standard standard standards are shown as the standard									

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	0	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	
& indicators VC companies. Responsible organization (lead) STIKK / ICK				Partner organizations	MTI, KIESA, MZHE, MF, USAID, EU, NMFA, GIZ, SDC, Development Banks CEED				
Task start: 15.10.2017					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 co Pitching sessions Coaching sessions Expert presentation Discussion panels Good practice examples: Balkan Venture Forum: http Belgrade Venture Forum: http				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
Acceptance criteria & indicators Acceptance criteria A tleast 20 Kosovo start					-			-
Responsible ICK / STIKK organization (lead)					Partner organizations	KIESA, NMFA	, GIZ, USAID	
Task sta	Task start: 01.04.2017				Task finish	30.12.2018		
Overall	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	duct needs assessment with ICK and nember companies (incubator) (e.g. ough 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			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 generated by using components of the enterprise capacity building & excellence program (see Task 2.2).							
		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 sto	ry & results		-		der I want to use the ortance of entreprene	•		
Acceptar & indicat	nce criteria tors	 The 	IT Entrepreneurship	Awa	ard has been success	fully establishe	ed.	
Responsible STIKK / ICK organization (lead)					Partner organizations	MTI, KIESA, N	IMFA, CEED	
Task start: 1.05.2017					Task finish	15.11.2018		
Overall budget (€) 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 com 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 story & results As a Kosovo IT start-up I want to use the high-te capital at attractive conditions and transform my					_	•	-	
Acceptance criteria & indicators The high-tech start-up				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	nd operate the high-tech			cree on the ablishment of the sh-tech start-up nd; annual report	MZHE	16.09.2017 - 30.12.2018	5,000,000
Comments Best practice example: High-Tech Gruenderfonds:				:tp:/	//www.en.high-tech-	gruenderfond	s.de	
Team		n.a.						
Continuous n.a. Improvement 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	
	ponsible MASHT anization (lead)				Partner organizations	STIKK / ICK, M	NMFA, USAID		
Task sta	rt:	01.10.2	017		Task finish	30.12.2018			
Overall I	verall budget (€) 9,000				Financial sources	NMFA, USAID			
Task act	Task activities:								
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	mplement IT entrepreneurship@school			aluation reports	MASHT	2.11.2017 - 30.12.2018	6,000	
Comme	Comments -					•			
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 internationa	I linkage and sponsorship for ICK					
Priority	1	Predecessor tasks	-	% Complete 0%					
Description & rational	е								
 The rationale behind this task is to link ICK to incubators abroad, particularly in Norway, Germany, Netherlands, UK and in the US in order to promote: Exchange of best practices and experiences in IT incubation and entrepreneurship Access to finance Know-how transfer Joint projects Business development Furthermore, this task includes the identification and acquisition of international sponsors for the ICK. 									
User story & results				l linkages of ICK to conduct joint ess opportunities for my members.					
Acceptance criteria & indicators	 ICK s 	signed at least 6 MoUs	with incubators and in	novation centers abroad.					
Responsible organization (lead)	STIKK / I	СК	Partner organizations	KIESA, NMFA, GIZ, SDC, USAID, EU					
Task start:	2.09.201	16	Task finish	30.12.2018					
Overall budget (€)	12,000		Financial sources	NMFA, GIZ, SDC, USAID, EU					
Task activities:									

Task No).	7.9	Task name	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		
also to accelerators, innovati agencies promoting IT entrep Best practice examples:				blish international linkage not only to incubators abroad but ion centers, IT-specific business parks and IT clusters and preneurship. erator: <u>http://www.exist.de/silicon-valley-accellerator</u>					
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	Jser 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 Ho	rizon 2020 pro	gram (IT)	
8.1.1	focus) and e	laborate 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 				rea of ICT for applicants for Horiz d and to what degree? se success rates for appli ling do exist? I criteria? pordinated with Task 6.8	on 2020 fundi ications? Competence	ng? center on EU	projects in	
Team		n.a.	ı.a.					
Continu Improve		n.a.	n.a.					

5.1.8.2. Introduce capitalization of patents, licences and development costs

Task No.		8.2	Task name		Introduce capitalization of pate development costs		ts, 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 cos I can improve the credit rating of my enterprise.						sts so that				
			capitalization of pate essfully implemented	ents, licences and development costs according to IFRS has been ed.						
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	ivities:	1								
No	Activity	Activity			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				oposal for nendment	MF	15.01 15.03.2018	6,000		

Task No.		8.2	Task name		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	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 and R&D					
Priority 1 Predeces		Predecessor tasks	-	-		% Complete	0%			
Description & rationale										
	-	-	rovide tax incentives particularly relevant			-				
User sto	ry & results	innovati	As a Kosovo IT company I want to benefit from tax incentives for investments into innovation and R&D so that I can improve the innovation capability and competitiveness of my enterprise.							
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	dopt decree on introducing tax ncentives for investments into nnovation and R&D			cree	MF	1.07 30.10.2017	3,000		
Law № 1 labour tr For the p products develop licenses			Best practice example: aw № 11.908: permits a company to income tax deductions of up to 200% for spending on abour training and R&D. For the purchase of equipment used in R&D, there is a 50% reduction in the tax on industrial products (IPI), in addition to exemption from this tax for imports of materials used to levelop software. There are also tax reductions on amounts paid for technology transfer, iccenses and royalties.							
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 inn			vation system for the Kosovo IT industry					
Priority		3	Predecessor tasks	-	- % Complete 09			0%			
Descript	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 story & results As a Kosovo IT company I want to use the open innovation system so that I can develop											
	 innovative IT solutions in close cooperation with partners and clients. Acceptance criteria & The open innovation system has been implemented. 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				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; ining 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		Requirements specification; open innovation platform		EU	2.02 31.03.2017	15,000				
Task No.		8.4	Task name	Establish open in	novation system	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	ration Hackathon cus on specific apps), a specific e or framework or s. e-health))	Program; list of participants	STIKK	26.10 30.10.2017 / 24.10 28.10.2018	10,000				
Commen	nts	for appli STIKK / I for open academi The train stakehol following The Train practice Open Al INNOCEI Finnland	vities of this task nee ed R&D in strategic I CK together with the innovation based or a. hing and capacity bui ders of the Kosovo I g topics should be co Introduction to ope Concepts and terms Application areas of Benefits and concer Open innovation pro Open innovation pro Open innovation me Innovation, Idea Con Open innovation an Best practice examp hings on open innova examples: os Project: http://www. TIVE: https://www.	T topics. Competence Centen close cooperation Iding on open innov Findustry in the are- overed by the trainin in innovation open innovation open innovation ocesses (outside-in a ethods and tools (e.g mpetitions, Co-Creat d IP oles ation should be impl ww.open-alps.eu innocentive.com n platform: http://w	ers for applied R& between the IT i ration should add a of innovation a lgs: on and inside-out pr g. Lead User Met tion, Crowd Sour lemented by the	&D should serve industry, governi dress all relevant and applied R&D rocesses, couple thod, Living Labs rcing, etc.)	as platform ment and . The d process) , Cross-				
Team		n.a.									
Continue Improve		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									
R&D in the Kosovo IT ir innovation and R&D ba targeted at the Compe	ndustry. T ised on co tence Cer R&D prog ting uting	he program will provid ompetitive and transpa nters for applied R&D i	a support program for promoting IT le funding for business-academia coo irent tender procedures. The support n strategic IT topics (see Task 8.6). ollowing strategic IT topics:	peration in the	area of				

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
	esponsible MASHT organization (lead)				Partner STIKK, UNIV, MTI, MZHE, KIE organizations			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 t program	he IT inno	vation and R&D		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 & rationa	le							
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	rsical-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 morganization. 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 Center for applied R&D (joint R&D projects or contract research).								en	
Respons	sible ation (lead)	MASHT	ιρριιεά κ&υ (joint κ&	τD b	Partner organizations	STIKK, UNIV,	MIT, MZHE, K USAID, EU, GI		
Task sta	rt:	01.07.20)17		Task finish	30.12.2018			
Overall	budget (€)	275,000			Financial sources	EU, 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	
Comme	nts	e and technology transfer 30.12.2018 The Competence Centers for applied R&D in strategic IT topics should be financed on a sustainable basis through: EU projects / funds EU projects / funds Revenues from contract research for IT companies Technology transfer projects and R&D projects financed by the Kosovo government. Technology transfer projects and R&D projects financed by 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							

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

5.1.8.7. Establish vendor roundtables

Task No		8.7	Task name	E	Establish vendor roun	dtables			
Priority		2	Predecessor tasks	-			% Complete	0%	
Descript	ion & rational	е		•			L		
					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	es have been establish	ned.			
Respons organiza	ible ition (lead)	STIKK			Partner organizations		IZHE, KIESA, N IZ, IT vendors	IMFA, SDC,	
Task start: 01.04.2017					Task finish	02.11.2018	02.11.2018		
Overall	Overall budget (€) 4,000				Financial sources	USAID			
Task act	ivities:	•							
No	Activity			D	eliverables:	Resp.	Timing	Budget	
8.7.1		•	endor roundtables participants and IT	Co	oncept	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									

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

Task No	Ο.	9.1	Task name		Elaborate IT-specific r promotion)	narketing mat	erial (investme	ent
Priority	/	2	Predecessor tasks	-			% Complete	0%
Descrip	otion & rational	le						
industry IT indus	I The marketin try as well as o	g materia n attracti	oration of marketing I 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 investor t information on the unities.			•		obtain
Acceptance criteria IT-specific marketing mat & indicators IT-specific marketing mat						motion has be	en elaborated	and
	Responsible KIESA organization (lead)				Partner organizations	STIKK, USAID, NMFA, GIZ		
Task start: 17.11.2016			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 inve	the Kosovo IT estment	Br	ochure	KIESA	5.01 27.02.2017	10,000
Comments The content of the marketin advantages) needs to be clo promotion of the Kosovo IT required as well as the corre				ely ndu	coordinated with the stry. A comprehensiv	e marketing ma re 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 & rational	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	tion on the Kosovo I	T in	dustry and correspor	nding investme	ent opportunit	ies.		
& indicators KIESA website.					section on the Kosovo ICT industry has been included in the on the KIESA-website has achieved a KPI of at least 150 visitors /					
-	Responsible KIESA organization (lead)				Partner STIKK, USAID, NMFA, GIZ organizations					
Task sta	irt:	1.05.201	17		Task finish	30.09.2017				
Overall	budget (€)	3,000			Financial sources	USAID				
Task act	tivities:	•								
No	Activity				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	Establish linkage to relevant websites and partners (e.g. Kosovo IT industry website (see task 3.8 digital marketing), STIKK, ministries, foreign chambers of commerce, analysts, multinational organizations, etc.)			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 & results As 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. 									
	As a Kos	sovo IT industry stakeh IT sector.		•	es to attract FDI	to the			
Acceptance criteria & indicators	 Incentive scheme for FDI in the Kosovo IT industry have been introduced. FDI in the Kosovo IT industry has increased by at least 10% / year. 								
Responsible	MF	MF Partner KIESA, MTI, MZHE, STIKK, EU, USAID,							

Task No	0.	9.3	Task name	1	ntroduce incentive so	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	Activity			eliverables:	Resp.	Timing	Budget		
9.3.1	regional) ber practice exa	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	Develop incentive scheme for promoting FDI in the Kosovo IT industry including financial incentives (e.g. Tax holidays, tax breaks, grants for investments into education and training, R&D, supplier development, etc.) and non-financial incentives			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 globa	al but particula	arly also on				
Team	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 Kosove	Kosovo IT industry and	-		o provide		
Acceptance criteria & indicators	 The ever 	A suitable key decourt manager has been engaged.						
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 manager for the IT industry at 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	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					
Comments The key account manager sh Kosovo IT industry.				ould be also involved in e	export promot	ion activities f	or the					
Team		n.a.										
Continue Improve		n.a.										

5.1.9.5. Conduct specialized marketing & PR activities

Task No		9.5	Task name	0	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		sovo IT industry stake o promote Kosovo as				-	
Accepta & indica	nce criteria tors	 At let 	east two articles / yea east 3 information eve have been conducte	ents	•	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	Overall budget (€) 40,000				Financial sources	USAID, EU, K	IESA	
Task act	ivities:							
No	Activity			D	eliverables:	Resp.	Timing	Budget
9.5.1	Elaborate and publish articles and whitepapers on the Kosovo IT industry (investment and outsourcing opportunities) in relevant media				blications	STIKK	2.03.2017 - 30.12.2018	10,000
9.5.2	-		events on the target markets	inf	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.		•	
Accepta & indica	nce criteria tors	 The 	Digital Tech Park is f	ully	operational by the er	nd of 2018.		
Respons organiza	ible ition (lead)	MTI, MZ	HE		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 budget (€) 1,110,000					Financial sources	Development Banks, private investors, EU		
Task act	ivities:							
No	Activity			D	eliverables:	Resp.	Timing	Budget
9.6.1	including inc	e law on Free Economic Zones incentive scheme (preferential stment credit and customs es)			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	Establish Dig	ital Tech	Park	Di	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 business Egypt Sr Poland:	onding law / governm ould receive preferent ve scheme). ctice examples: a: Government's Decro sed IT zone: <u>http://wy</u> s-investment-in-it-fiel nart 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 <u>rs/492/incentione.aspx</u> <u>/</u>	ions in the Dig s procedures t entives for inve <u>ve-policy-for-r</u>	ital Tech reatment estment in <u>new-</u>
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

	1.1 Establish Ministry of Information and Communications Technology 1.1.1 Develop implementation concept for the ICT Ministry of Kosovo (feasibility study, analysis of					Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
		1			Wed 20.07.16	
		1			Tue 20.01.15	EU / GIZ;Budget[80.000 €]
	1.1.2 Elaborate legislative proposal for the establishment of the ICT Ministry of Kosovo	1			Tue 03.02.15	EU;Budget
	1.1.3 Adopt decree / law on the establishment of the ICT Ministry of Kosovo 1.1.4 Establish ICT Ministry of Kosovo				Wed 04.02.15 Wed 30.12.15	ZKM;Budget ZKM;Budget[1.000.000 €]
	1.1.4 Establish ICT Ministry of Kosovo 1.1.5 Introduce position of National CIO within the ICT Ministry of Kosovo				Wed 30.12.15 Wed 27.05.15	ZKM;Budget[1.000.000 €]
	1.1.6 Establish National IT Promotion Agency				Wed 27.05.15 Wed 20.07.16	ZKM;Budget[300.000 €]
	1.2 Establish National Committee on Digital Transformation				Fri 30.12.16	2Km,Bduget_300.000 c]
	1.2.1 Identify committee members				Mon 03.11.14	J-ZKM:MZHE:MAP;Budget[1.000 €]
	1.2.2 Establish National Committee on Digital Transformation and identify focus topics (e.g. indu				Thu 06.11.14	Budget[3.000 €];ZKM:MZHE:MAP
r						
		1				Î STIKK;Budget[1.000 €]
1	1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a	1				I STIKK;Budget[1.000 €
1	1.2.4 Implement awareness raising campaign on digital transformation and the strategic importa-	1				STIKK;Budget[10.000 €]
	1.2.5 Place the IT industry on national priority list	1	561 dys	Fri 07.11.14	Fri 30.12.16	ZKM;Budget
	1.3 Implement capacity building on IT sector promotion	2	9 dys?	Mon 01.12.14	Thu 11.12.14	•
	1.3.1 Develop training concept and material for capacity building in IT sector promotion	1] GIZ;Budget[4.000 €]
	1.3.2 Conduct training workshop (3 days) on IT sector promotion	1	4 dys	Mon 08.12.14	Thu 11.12.14	GIZ;Budget[4.000 €]
1	1.3.3 Provide manual and toolbox on IT sector promotion	2				I GIZ;Budget
	1.4 Promote digital ecosystem	1				÷
1		- 7				M TI;Budget[30.000 €]
		1				— MF ;Budget[9.000 €]
						I
		1				I STIKK;Budget[1.000 €]
						I STIKK;Budget[1.000 €]
						MASHT;Budget[3.000 €] MAP:Budget[3.00
						mAP;budget[5.0/
						6,MF ;Budget[3.000 €]
						MF;Budget
						in jauge
						World Bank;Budget[15.000 €]
	1.6.2 Provide capacity building on IT procurement for public servants	1				Budget[15.000 €];EU
	1.7 Introduce standards and methodologies for IT management in the public sector	2	588 dys	Wed 01.10.14	Fri 30.12.16	
	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	►MAP;Budget[5.000 €]
	1.7.2 Elaborate proposal for capacity building and training in standards and methodologies for pl	2	12 dys	Wed 08.10.14	Thu 23.10.14	MAP;Budget[12.000 €]
		2				STIKK;MAP;Bud
		2				STIKK;Budget[1:
		1				
1		1				EU;Budget[3.000 €]
		1				MF;Budget
-						
						STIKK;Budget[1.000 €]
						STIKK, Budget(1)
		1				
/						[GIZ;Budget[2.000 €]
5	1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis					
	1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 1					STIKK;Budget[5.000 €]
	1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 2	1	20 dys	Mon 20.04.15	Fri 15.05.15	STIKK;Budget[5.000 €]
	1.10.2 Implement the Kosovo IT Industry Barometer on an annual basis 3	1	20 dys	Wed 20.04.16	Tue 17.05.16	STIKK;Budget[5.000 €]
E.	1.10.3 Conduct press conference to present the ITIB results	1	2 dys	Tue 15.04.14	Wed 16.04.14	I STIKK;Budget[3.000 €]
	1.11 Implement initiative "IT 4 Social Inclusion" (CSR)	3				
	1.11.1 Define and implement joint CSR activities on STIKK level (donations, trainings for disable	3	3 dys			LSTIKK;Budget
	1.11.2 Elaborate proposal on how IT solutions could empower the elderly and people with disabi	- 3		Wed 06.05.15		€STIKK;Budget[3.000 €]
	1.11.3 Design and implement special job integration program for persons with autism, including t	3	30 dys	Mon 11.05.15	Fri 19.06.15	SΠΚΚ;Budget[30.000 €]
		1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1.2.4 Implement awareness raising campaign on digital transformation and the strategic importa 1.2.5 Implement capacity building on IT sector promotion 1.3.1 Device training concept and material for capacity building in IT sector promotion 1.3.1 Device training concept and material for capacity building in IT sector promotion 1.3.3 Device training concept and material for capacity building in IT sector promotion 1.3.3 Device training concept and material for capacity building in IT sector promotion 1.3.3 Drovide manual and toobtox on IT sector promotion 1.4.1 Design and implement measures to protect intellectual Property Rights (PR) 1.4.2 Design and implement measures to stimulate the supply of venture capital (e.g. tax incenth 1.4.3 Implement at least 3 Information events on open source software (OSS) for IT comps 1.4.3 Implement at least 3 Information events on open source software (OSS) for IT comps 1.4.4 Introduce educational leave (3 days / year) to promote continuing education and professior 1.4.5 Promote the availability of public company data 1.5.2 Adopt decree on income tax incentives for certified software developers 1.5.2 Adopt decree on income tax incentives for certified software developers 1.7.1 Identify relevant IT standards and methodologies (description o standard, scope, evaluatio 1.7.1 dentify relevant IT standards and methodologies (description o standard, scope, evaluatio 1.7.2 Conduct capacity building and training in IT standards and methodologies for K Kosovo IT co 1.8 Reduce customs taffs and VAT for IT equipment 1.8.1 Elaborate entry on the reduction of customs tariffs and VAT for IT equipment 1.8.2 Elaborate the ID on point VAT for IT equipment 1.9.2 Elaborate National IT Ouality Policy 1.10.2 Implement the Kos	1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1.2.4 Implement awareness mising campaign on digital transformation and the strategic importa 1.2.5 Place the IT industry on national priority list 1.3.1 Device training concept and material for capacity building in IT sector promotion 1.3.2 Conduct training workshop (3 days) on IT sector promotion 1.3.3 Provide manual and toobox on IT sector promotion 1.4.4 Design and implement measures to protect Intellectual Property Rights (IPR) 1.4.1 Design and implement measures to stimulate the supply of venture capital (e.g. tax incention) 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compater (4.3 Implement at least 3 information events on open source software (OSS) for IT compater (4.3 Implement at least 3 information events on open source software (OSS) for IT compater (4.4 Introduce educational leave (3 days / year) to promote continuing education and profession 1.4.4 Introduce ducational leave (3 days / year) to promote continuing education and profession 1.5.2 Adopt decree on income tax incentives for certified software developers 1.5.2 Adopt decree on income tax incentives for certified software developers 1.6.3 Revice capacity building and training in IT standards and methodologies for public 17.7 Devide capacity building and training in IT standards and methodologies for public 17.7 Libentity relevant IT standards and methodologies for	1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1 dy 1.2.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1 dy 1.2.4 Implement awareness mising campaign on digital transformation and the strategic importa 10 dys 1.3.1 Device training concept and material for capacity building in IT sector promotion 4 dys 1.3.1 Device training concept and material for capacity building in IT sector promotion 4 dys 1.3.3 Drovide manual and toolbox on IT sector promotion 4 dys 1.4.1 Design and implement measures to protect Intellectual Property Rights (IPR) 30 dys 1.4.1 Design and implement measures to structule the supply of venture capital (e.g. tax incenth 22 dys 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compare 1 dy 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compare 1 dy 1.4.4 Introduce ducational leave (3 days / year) to promote continuing education and profession 23 dys 1.5.2 Adopt decree on income tax incentives for certified software developers 6 dys 1.5.2 Adopt decree on income tax incentives for certified software developers 6 dys 1.6.8 Promote the availability of public IT procurement 16 dy 1.7.1 Identify relevant IT standards and methodologies for pi 1 dy	1.2.3 Crganize meetings / workshops of National Committee on Digital Transformation on a 1.4y Sun 08.11.15 1.2.4 Implement awareness raising campaign on digital transformation and the strategic importa 10 dy: Mon 03.11.14 1.2.5 Implement capacity building on IT sector promotion 8 dys? Mon 01.22.14 1.3.1 Device training concept and material for capacity building in IT sector promotion 4 dys Mon 01.12.14 1.3.3 Device training concept and material for capacity building in IT sector promotion 4 dys Mon 01.12.14 1.3.3 Device training concept and material for capacity building in IT sector promotion 4 dys Mon 01.12.14 1.4.1 Design and implement measures to protect Intellectual Property Rights (PR) 30 dys Thu 01.01.15 1.4.1 Design and implement measures to stimulate the supply of venture capital (e.g. tax incentified 2 dys) Yeed 140.11.55 1.4.3 Implement at least 3 information events on open source software (OSS) for IT comparting 2 dys 1 dy Wed 140.11.55 1.4.4 Introduce ducational leave (3 days / year) to promote continuing education and profession 2 dys Wed 140.11.55 1.5.1 As Thoromet tax incentives for certified software developers 4 dys Thu 140.11.65 1.4.5 Provide capacity building on IT procurement for public software developers 6 dys Thu 150.11.55 1.5.2 Adop	12.3 Organize meetings / workshops of National Committee on Digital Transformation on a 1.9, Sun 08.11.15 Mon 09.11.15 12.4 Implement awareness raising campaign on digital Transformation on a 1.9, Tu 08.11.16 Non 03.11.14 Fin 14.11.14 12.4 Implement awareness raising campaign on digital Transformation on a 1.0, ty Mon 03.11.14 Fin 14.11.14 13.1 Develop training concept and material for capacity building in IT sector promotion 9 dys? Mon 01.12.14 Thu 11.2.14 1.3.3 Provide manual and toolbox on IT sector promotion 1.0, ty Mon 01.12.14 Thu 11.12.14 Thu 11.12.14 1.4.1 Design and implement messures to protect Intellectual Property Rights (IPR) 2.20 dys Thu 01.01.15 Th 01.01.15 1.4.1 Design and implement messures to softwater to software (OSS) for IT compa 2.60 dys Ved 14.01.15 Ved 14.01.15 1.4.3 Implement at least 3 information events on open source software (OSS) for IT compa 1.0 dy Thu 01.01.15 Thu 01.01.15

5.2.2. Timetable Strategic Pillar 2: Company Excellence & Quality

1	Priority	Duration	Start	Finish	Half 1, 2014 Half 2, 2014 Half 1, 2015 Half 2, 2015 Half 1, 2016 Half 2, 2016 Half 1, 2017 Half 2, 20 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S S O N D J F M A M J J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J J A S O N D J F M A M A M J J A S O N D J F M A M A M J J A S O N D N D J F M A M A M A M A M A M A M A M A M A M
	1	783 days	Wed 01.01.14	Fri 30.12.16	
demy	1	60 days	Wed 01.01.14	Tue 25.03.14	GIZ;Budget[3.000 €]
my concept including the following c	1	200 days	Wed 26.03.14		STIKK;GIZ;Budget[20.000 €]
	1				STIKK;NMFA;GIZ;Budget[
	1				() GIZ;Budget[5.000 €]
	1				STIKK;NMFA;Budget[20.000 €]
	1				
	1				I \$TIKK;GIZ;Budget[1.000 €]
	1				I \$TIKK;GIZ;Budget[1.000 €]
	4				I STIKK;GIZ;Budget[1.000 €]
	1				
	1				GIZ;NMFA;Budget[30.000 €]
	1] STIKK;Budget[1.000 €]
	1		Mon 01.06.15	Fri 30,12,16	GIZ:NMFA;USAID;Budget[
	3	447 days?	Thu 01.01.15	Fri 16.09.16	
STIKK	3	23 days	Thu 01.01.15	Mon 02.02.15	STIKK;GIZ;Budget[2.000 €]
f quality management institutions	3	5 days?			
and roundtable sessions on quai	3	443 days?	Wed 07.01.15	Fri 16.09.16	IIIII
rs and roundtable sessions on quali	3	1 day			I S1IKK;NMFA;GIZ;Budget[2.000 €]
rs and roundtable sessions on quali	3	1 day	Fri 15.05.15	Fri 15.05.15	I STIKK;NMFA;GIZ;Budget[1.000 €]
	3				I STIKK;NMFA;GIZ;Budget[1.000 €]
	3				I STIKK;NMFA;GIZ;Budget[1.000 €]
	3				I STIKK;NMFA;GIZ;Budget[1.000 €]
	3				I STIKK;NMFA;GIΖ;Budget[1.000 €]
	2				() GIZ;Budget[2.000 €]
	2				GIZ;Budget[2.000 €]
	2				T STIKK;Budget[1.000 €]
	2				
	2				EU;GIZ;Budget[8.000 €]
	2				I STIKK;Budget[1.000 €]
	2				EU;GIZ;Budget[225.000 €]
	3	80 days?	Wed 01.10.14	Tue 20.01.15	
	3	65 days	Wed 01.10.14	Tue 30.12.14	EU;Budget[8.000 €]
orate financing	3	1 day?	Tue 20.01.15	Tue 20.01.15	I SΠKK;Budget[1.000 €]
	2	515 days?	Mon 12.01.15	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
8 certification (including application	2	6 days			גרפט;אדו;Budget[8.000 €]
se Development Fund (including app	8	7 days			<mark>q EU;USA</mark> ID;Budget[8.000 €]
	2	1 day?			ŢSTIKK;Budget[1.000 €]
	4				EU;MT1;Budget(150.000 €]
	4				EU;USAID;Budget[1.000.00
	6				A NHEA : Budget 12 000 61
	-				NMFA;Budget(3.000 €) MF;Budget
and containing education and trainin	2				mr, buuget
luding logo, price and selection crite	2				STIKK;MZHE;MAP;Budget[2.000 €]
	2				
	2				T STIKK;MZHE;Budget[3.000 €]
	2			Tue 08.12.15	I STIKK;MZHE;Budget[3.000 €]
entation of award ceremony including	2	1 day	Thu 08.12.16	Thu 08.12.16	I STIKK;MZHE;Budget[3.000 €
	3	349 days	Tue 01.09.15	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
including content structure, template	3	5 days	Tue 01.09.15		STIKK;GIZ;Budget[2.000 €]
nly basis)	3	344 days	Tue 08.09.15	Fri 30.12.16	STIKK;Budget[15.000€]
	my concept including the following c inings cooperation with Sprachlehrzentrum (ToT) program for the STIKK Trainin titonal and regional level 1 national and regional level 2 national and regional level 2 national and regional level 3 ellence program nember companies ity building & excellence progra excellence program (To Companies) STIKK F quality management institutions and roundtable sessions on quali rs and roundtabbe reported the round roundtable reported be reported the round roundtable reported be reported the round roundtable reported be reported the roundt	my concept including the following c inings inings cooperation with Sprachlehrzentrum (ToT) program for the STIKK Trainin (ToT) arong angional level national and regional level 1 national and regional level 1 1 ellence program 1 ellence program 1 enter companies 1 1 ty building & excellence program 1 excellence program 1 strikk 7 quality management institutions 2 strikk 7 quality management institutions 2 strikk 7 strikk	derry 1 60 days my concept including the following o 1 200 days inings 1 723 days iccoperation with Sprachlehrzentrum 1 260 days itional and regional level 1 260 days intonal and regional level 1 260 days intonal and regional level 1 1 day national and regional level 1 1 day national and regional level 1 1 day national and regional level 1 1 day entione and regional level 1 1 day pational and regional level 1 1 day entione and regional level 1 1 day pations and regional level 1 1 day excelence program 1 42 days apacity building & excelence program 1 1 day rs and roundtable sessions on quail 3 1 day rs and roundtable sessions on quail 3 1 day rs and roundtable sessions on quail 3 1 day rs and roundtable sessions on quail 3 1 day rs and roundtable sessions on quail 3 1 day rs and roundtable sessions on quail 3 1 day rs and roundtab	demy 1 60 days Wed 01.01.14 my concept including the following of 1 200 days Wed 26.03.14 inings 1 723 days Wed 26.03.14 iccoperation with Sprachlehrzentrum 1 260 days Mon 03.11.14 IcTo1 program for the STIKK Trainin 1 260 days Mon 02.10.14 national and regional level 1 351 days Mon 20.10.14 national and regional level 1 1 day Mon 20.20.15 netional and regional level 1 1 day Mon 02.01.14 member companies 1 65 days? Mon 01.2.14 ity building & excellence program 1 42 days? Mon 01.0.15 sand roundtable sessions on quail 2 1 day Wed 07.01.15 srs and roundtable sessions on quail 2 1 day Wed 07.01.15 srs and roundtable sessions on quail 2 1 day Tu 0.10.15 srs and roundtable sessions on quail 2 1 day Tu 0.10.15 srs and roundtable sessions on quail 2 1 day Tu 0.10.15 srs and roundtable sessions on quail 3	Jerry 1 60 days Wed 01.01.14 Tue 25.03.14 Tue 30.12.16 my concept including the following c 1 200 days Wed 26.03.14 Tue 30.12.16 inings 1 723 days Wed 26.03.14 Fir 30.01.216 iccoperation with Sprachlehrzentrum 1 260 days Mon 03.11.14 Fir 30.01.15 itcoperation with Sprachlehrzentrum 1 260 days Mon 02.01.014 Mon 22.02.16 national and regional level 1 1 day Mon 22.02.16 Mon 22.02.16 Mon 22.02.16 national and regional level 1 1 day Mon 01.02.15 Fir 1 20.02.15 national and regional level 1 1 day Mon 01.2.14 Fir 1 30.12.16 enther companies 1 65 days Mon 01.0.15 Fir 1 50.515 excellence program 1 427 days? Thu 01.0.115 Fir 1 50.615 sand roundtable sessions on quai 3 64 days? Wed 07.01.15 Fir 1 50.615 sand roundtable sessions on quai 3 1 day Fir 1 50.615 Fir 1 50.615

5.2.3. Timetable Strategic Pillar 3: Export Promotion



5.2.4. Timetable Strategic Pillar 4: Domestic Market Development

		Start		If 1, 2014 Haif 2, 2014 Haif 2, 2015 Haif 2, 2016 Haif 2, 2016 Haif 1, 2017 Haif 2, 2016 Haif 2,
4.1 Establish Tender Information Service (TIS) 4.1.1 Elaborate concept for the Tender Information System (sources, screening p		Mon 04.01.16 Mon 04.01.16		USAID:Budget(5.000 c]
4.1.1 Elaborate concept for the Tender Information System (sources, screening c 4.1.2 Implement Tender Information Service	8 days	Thu 14.01.16	Ed 20 12 16	STIKK;USAID;Budget(6.000 C
4.1.2 Implement Tender Information Service 4.2 Provide trainings to IT companies on tender management		Mon 02.11.15		
4.2.1 Conduct needs assessment and identify most relevant organizations conce	5 days	Mon 02 11 15	Fri 06.11.15	p. USAID:Budget[3.000 €]
	15 days	Mon 09.11.15	Fri 27.11.15	USADIEU;Budget(9.000 C
4.2.3 Conducting tender management trainings (at least 1 / year)	187 days	Mon 30.11.15	Tue 16.08.16	USAID:EU;Budget(9.000 C
4.3 Conduct information campaign on digital transformation				
				□ GIZ;Budget[5.000 €]
4.3.2 Elaborate best practice examples of digital transformation from Kosovo (col	4 days	Thu 12.03.15	Tue 17.03.15	D,STIKK;Budget[3.000 C]
4.3.3 Develop video clip (YouTube) on digital transformation				CUSAID;Budget[9.000 C]
	468 days	Wed 18.03.15	Fri 30.12.16	STIKK;Budget[6.000 €]
				EU;Budget(6.000 C]
4.4.2 Conduct information event on current e-government trends and open data a				MAP-;KIPA;Budget[3.000 c]
4.4.5 Establish a joint working group / collaboration platform on e-government an	29 days	Map 17 11 14	Mod 14 12 16	
				STIKX;Budget[2.000 €]
				T STIKK;t] companies;Budget[7.000 C]
4.5.3 Conduct information event on latest IT trends 1	1 day	Mon 17.11.14	Mon 17.11.14	TIT companies;STIKK;Budget(1.000 €)
4.5.3 Conduct information event on latest IT trends 2	1 day	Wed 08.04.15	Wed 08.04.15	I IT companies;Budget[1.000 C]
4.5.3 Conduct information event on latest IT trends 3	1 day	Wed 12.08.15	Wed 12.08.15	I IT companies;STIKK;Budget[1.000 c]
				T IT companies;Budget[1.000 €]
	1 day	Wed 13.04.16	Wed 13.04.16	I IT companies;STIKK;Budget[1.000 C]
	1 day	Wed 10.08.16	Wed 10.08.16	I IT companies;STIKK;Budget[1.000 6]
				I Π companies;STiKK;Budget[1.000 €]
4.6 Informeric the Kosovo Cio Summit		FR 06.02.15	Thu 12.05.16	STIKK:Budgett2.000 G
4.6.2 Conduct Kosovo CIO Summit on an annual basis 1				
	1 day	Thu 12.05 16	Thu 12.05 16	I STIKK;Budget[4.500 €]
4.7 Implement B2B match-making events with selected domestic market target i	535 days	Tue 25.11.14	Mon 12.12.16	k
4.7.1 Create methodology and concept for B2B match-making events	5 days	Mon 02.02.15	Fri 06.02.15	6-GIZ:Budget[5.000 €]
4.7.2 Conduct IT needs assessment in selected target industries				SDC;Budget[12.000 C]
4.7.3 Definition of IT product / service portfolio				STIKK;IT companies;Budget[2.000 C]
	394 days	Wed 10.06.15	Mon 12.12.16	I I I I
	1 day	Wed 10.06.15	Wed 10.06.15	I STIKK;Budget[3.000 ¢]
				I STIKK;Budget[3.000 C] I STIKK;Budget[3.000 C]
				[STIKK;Budget(3.000 ¢] [STIKK;Budget(3.000 ¢]
4.7.4 Organization and implementation of industry-specific B2B match-making	F24 days	Worl 12.12.16	Mon 12.12.16	
4.7.5 Provide business-development support (follow-up) to the companies at				
				[STIKK:SDC;GIZ;Budget[600 C]
4.7.5 Provide business-development support (follow-up) to the companies a	1 day	Wed 25.11.15	Wed 25.11.15	T STIKK:SDC:GIZ:Budget/600 €1
4.7.5 Provide business-development support (follow-up) to the companies at	1 day	Wed 25.05.16	Wed 25.05.16	T STIKK;SDC;GIZ;Budget[600 €]
4.7.5 Provide business-development support (follow-up) to the companies at				I STIKK;SDC;GIZ;Budget[600 €]
4.8 Organize B2B match-making with international investors (indirect exporting)				
4.8.1 Create concept for B2B match-making events (format, agenda, duration, fin	2 days	Thu 01.05.14	Fri 02.05.14] GIZ;Budget[2.000 ¢]
				CDC;Budget(6.000 C)
4.6.4 Organization and implementation of B2B match-making events (e.g. in	436 days	Wed 04.03.15	Wed 02.11.16	I I I I I STIKK;fT companies;Budget[2:00 G]
4.8.4 Organization and implementation of B2B match-making events (e.g. in	1 day	Mon 02.11 15	Mon 02.11 15	I STIKK;1 companies;Budget[2:000 c]
4.8.4 Organization and implementation of B2B match-making events (e.g. in	1 day	Wed 02.03.16	Wed 02.03.16	T STRK1 Companes;Budget[2.000 €]
				T STIKK,T companies,Budget[2.000 €]
4.8.5 Provide business-development support (follow-up) to the companies a	523 days	Tue 04.11.14	Thu 03.11.16	
4.8.5 Provide business-development support (follow-up) to the companies at	1 day	Tue 04.11.14	Tue 04.11.14	I STIKK;SDC;GIZ;Budget[600 €]
				I STIKK;SDC;GIZ;Budget[600 C]
4.8.5 Provide business-development support (follow-up) to the companies at		Tue 03.11.15	Tue 03.11.15	I STIKK;SDC;GIZ;Budget(600 €]
4.8.5 Provide business-development support (follow-up) to the companies al	1 day	Tue 03.05.16	Tue 03.05.16	I STIKK;SDC;GIZ;Budget[600 €]
	1 day	Inu 03.11.16	Inu 03.11.16	I STIKK;SDC;GIZ;Budget[600 <]
				● MF 3kudget 2,000 Cl
4.9.3 Laurch information campaign on financial incentive scheme for SMEe (web				
4.9.4 Implement financial incentive scheme for SMEs	470 days	Mon 16.03.15	Fri 30,12,16	KIESA;Budget[45.000 C]
4.9.5 Conduct monitoring and evaluation of financial incentive scheme program f	153 days	Wed 01.06.16	Fri 30.12.16	KIESA Budgett 9.000 C
4.10 Develop digital maturity assessment tool	165 days	Fri 15.05.15	Thu 31.12.15	
4.10.1 Develop digital maturity assessment tool (online version)	77 days	Fri 15.05.15	Mon 31.08.15	GIZ;Budget[20.000 C]
4.10.2 Integrate digital maturity assessment tool into STIKK website and conduct		Tue 01.09.15		STIKK;Budget[3.000 €]
4.10.3 Implement digital maturity assessment (fully automated online version) 4.10.4 Elaborate summary report on digital maturity assessment (compiled result		Wed 16.09.15		5TIK5 #040eff5.000 C]
	AA dave	Mon 02.11.15		
	14.2 Develop tender management Italing program 14.3 Conduct Information campaign on digital transformation 14.3 Conduct Information campaign on digital transformation 14.3 Conduct Information campaign on digital transformation 15.1 Elaborate less practice scamples of digital transformation from Kosovo (col 13.3 Develop video city (Col1) on digital transformation from Kosovo (col 13.4 Develop video city (Col1) on digital transformation from Kosovo (col 13.4 Develop video city (Col1) on digital transformation from Kosovo (col 13.4 Develop video city (Col1) on digital transformation for Kosovo (col 14.4 Conduct information events on odgital transformation for Kosovo (col 14.3 Education information events on odgital transformation for Kosovo (col 14.3 Education information events on adjuta) constructions, structure, etc.) 14.2 Conduct information events on cameri e powerment indice and open data (col 14.3 Educatic information events on latest IT trends 14.3 Educatic Information event on latest IT trends 14.3 Conduct Romoto City Summit on an annual basis 14.4 Conduct Rosov CIO Summit on an annual basis 14.2 Conduct Rosov CIO Summit on an annual basis 14.2 Conduct Rosov CIO Summit on an annual basis 14.3 Conduct Rosov CIO Summit on an annual basis 14.3 Conduct Rosov CIO Summit on an annual basis 14.3 Congarization and ingenernatation of	4.2.1 Develop tender management training program 15 days 4.3.2 Conduct information campaign on digital transformation (red.). Echnologies, area 46 dogs 4.3.1 Elaborate presentific on origital transformation (red.). Echnologies, area 8 dogs 4.3.2 Elaborate beat practice examples of digital transformation (red.). Echnologies, area 8 dogs 4.3.1 Elaborate beat practice examples of digital transformation (red.). Echnologies, area 8 dogs 4.3.2 Elaborate beat practice examples of digital transformation (red.). Echnologies, area 8 dogs 4.4.1 Elaborate presentition on current e-government trends and open data 4.4.3 dogs 4.4.2 Conduct information event on current e-government trends and open data 11 dogs 4.3.2 Conduct information event on latest IT trends 953 dogs 4.5.2 Conduct information event on latest IT trends 954 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT trends 1 dogs 4.5.3 Conduct information event on italest IT	4.2.2 Develop tender management training rongam 15 days 4.3.2 Conduct information examples of digital transformation (hereds, technologies, area 16 days 4.3.1 Elaborate best presentation on digital transformation (hereds, technologies, area 8 days 4.3.2 Canduct information examples of digital transformation (hereds, technologies, area 8 days 4.3.2 Elaborate best practice examples of digital transformation (hereds, technologies, area 8 days 4.3.2 Develop vides city ("OVIDEND on digital transformation (hereds, technologies, area 8 days 4.4 Inglement information event on egrevemment trends and open data 13 days? Wed 0104.16 4.4.2 Conduct information event on current egovernment trends 20 days? Wed 0104.16 4.5.1 Creates concept for information events (mail, duration, structure, etc.) 1 day? Man 204.16 4.5.2 Conduct information event on latest IT trends 1 day? 1 day? 1 day? 4.5.3 Conduct information event on latest IT trends 1 day? 1 day? 1 day? 4.5.3 Conduct information event on latest IT trends 1 day? 1 day? 1 day? 4.5.3 Conduct information event on latest IT trends 1 day? 1 day? 1 day? 4.5.3 Conduct information event on latest IT trends 1 day? 1 day? 1	1 2.2 Develop lender management Taining of least 1 / year) 1 16 days Mon 09.1115 The Far 27.11.16 4.3 Canduct information campaign on digital transformation 480 days Mon 02.03.15 Wei 10.03.16 4.3 Laborate presentation on digital transformation (trends, let-Indugite, area 8 days Mon 02.03.15 Wei 10.03.16 4.3 Laborate best practice examples of digital transformation form Kozovo (col) 4 days Thu 12.03.15 Wei 10.03.15 Wei 10.03.15 Fi 10.12.16 4.3 Laborate best practice examples of digital transformation form Kozovo (col) 4 days Thu 12.03.15 Wei 10.03.15 Fi 10.12.16 4.4 Laborate presentation on courset e-government lends and open data 1 days? Mon 20.41.6 Fi 12.02.6 4.4 Laborate information events on altest IT trends 1 days? Mon 20.41.6 Fin 22.06.16 4.5 Conduct information event on latest IT trends 1 days? Mon 71.11.4 Wei 44.22.6 4.5 Lorenduct information event on latest IT trends 1 days? Mon 71.11.4 Wei 44.22.6 4.5 Lorenduct information event on latest IT trends 1 days? Mon 71.11.4 Wei 44.22.6 4.5 Lorenduct information event on latest IT trends 1 days? Mon 71.11.4 Wei 12.06.15 Mon 71.11.4 Wei

5.2.5. Timetable Strategic Pillar 5: IT Education

O Implement continuous improvement system for T databalism in Koaroo Pair Mark/pi a Junk/al u = Oct o = Junk = Mark/pi a Junk/al u = Oct o	
3 5.12 Coduct evaluation and behavior less conference to present recorms 12 days Fri 00.85.15 5 2 5.14 Elboard recommendations on relation and relation activation known of the score that the scor	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
4 6.13. Biodret recommendations on IT existing. unrulatin Kasoo for: Universe 15 days Mon 10.615 Mar 20.615 6 0 5.14. Biodret recommendations on IT existing. Unrulating Kasoo for: Universe 16 days Mon 10.615 Mar 20.615 7 13 Biodret recommendations on IT existing. Unrulating Kasoo for: Universe 16 days Mon 10.615 Mar 20.615 8 2 5.15. Conduct Information event and press conference to present recomme 16 days Mon 10.615 Mar 20.615 10 2 5.15. Conduct Information event and press conference to present recomme 16 days Mon 10.615 Mar 20.615 10 2 5.15. Conduct Information event and press conference to present recomme 16 days Mon 10.615 Mar 20.615 11 2 5.16. Donduct Information event and press conference to present recomme 16 days Mon 10.615 Mar 20.615 12 5.15. Conduct Information event and press conference to present recomme 16 days Mon 10.615 Mar 20.615 Mar 20.615 13 45. Solution Information event and press conference to present recomme 16 days Mon 10.215 Fir 30.015 Mar 20.615 Fir 30.015 Mar 20.615 Fir 30.015 Mar 20.	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
5 0 5.14 Eliobate recommendations or regimed IT quilification profiles roomede 16 days Tua 30.08.15	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
6 0 51.5 Conduct Information event and press conference to present recorms 283 days Tw 300.615 Tm 300.616 Tm 300.616 <td< td=""><td>STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00</td></td<>	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
7 1 5.15 Conduct Information event and press conference to present recomm 1 dwy Twe 300.615	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
8 3 5.15 Conduct Information event and press conference to present recomment 1 day TM 20.616 <	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
9 1 5.16 Integrate quality management and software testing (neuting ISTOB cent) 186 days Mo 13.04.15 Wed 30.12.15 10 1 5.17 Incorporate established certification programs in the curriculum (e.g. 1000 established pertification programs in the curriculum (e.g. 1000 established pertification programs in the curriculum (e.g. 1000 established pertification adapteric cooperation and exchange program Mo 13.04.15 FH 30.12.16 11 2 5.17 Devote international academic cooperation and exchange program Mo 202.015 FH 30.12.16 12 5.22 Implement international academic cooperation and exchange program for certain provide into exchange program for certain provide exchange program for certain provide into exchange program for certain provide exchange program for certain p	STIKK;Budget(1 MASHT;Budget MASHT;Budget MASHT;Budget Giz;Budget(9.00
10 10 <td< td=""><td>MASHT;Budget MASHT;Budget MASHT;Budget GIZ;Budget[9.00</td></td<>	MASHT;Budget MASHT;Budget MASHT;Budget GIZ;Budget[9.00
11 11 12 5.1.8 Develop and integrate applied courses and lectures by IT professionis (p) 450 days Mon 13.0.15 F 13.0.12.16 12 6.2.1 Develop international academic cooperation and exchange program 650 days Mon 20.20.15 F 13.0.12.16 13 13 5.2.1 Develop international academic cooperation and exchange program for co 20 days Mon 20.20.15 F 13.0.12.16 15 1 5.2.2 Develop international academic cooperation and exchange program for co 20 days Mon 20.20.15 F 13.0.12.16 16 1 5.2.3 Establish network of Kosovo academics working abroad (online potal) 480 days Mon 20.20.15 F 13.0.12.16 17 5.3.1 Develop service concept for Mesulanet Hacement Service including service 11 days Mon 20.20.15 F 13.0.12.16 18 16 5.3.1 Develop and implement infolamment and rectulainment events for IT 11 days Mon 20.01.15 Mon 20.01.15 12 15 3.4 Design and implement infolamment and rectulainment events for IT 1 days Mon 20.01.16 Mon 20.10.16 12 15 5.4 Design and implement infolamment and rectulainment events for IT 1 days Mon 20.01.16 Mon 20.10.16 12 15	MASHT;Budget MASHT;Budget MASHT;Budget GIZ;Budget[9.00
12 52 Implement international academic cooperation and exchange program 500 days Mon 202.015 Fri 30.12.46 13 14 5.21 Develop international academic cooperation and exchange program for c 20 days Mon 202.015 Fri 30.72.45 14 5.21 Develop international academic cooperation and exchange program for c 20 days Mon 202.015 Fri 30.72.45 15 15 5.2 Stabilish intervents of Kosov academics working leaval online program for motivaling Kosova academics working leaval online program for motivaling Kosova academics working leaval online program for motivaling Kosova academics working leaval intervents for Kosova so to 20 days Mon 202.015 Fri 30.12.16 16 16 5.31 Develop sonice concept for the Student Racement Service including service including service to 115 days Thu 15.01.15 Fri 30.12.16 Fri 30.12.16 16 16 5.31 Develop and implement infolainment and recutalianmet events for IT 1 days Mon 202.01.16 Fri 30.12.16 16 5.31 Develop and implement infolainment and recutalianmet events for IT 1 days Mon 202.01.16 Fri 30.12.16 17 5.31 Develop concept for RK Kosov IT schdarship program 554 days Mon 202.01.16 Mon 202.01.16 Fri 30.12.16 18 5.3.1 Develop concept for RK Kosov IT schdarship program </td <td>MASHT;Budget MASHT;Budget MASHT;Budget GIZ;Budget[9.00</td>	MASHT;Budget MASHT;Budget MASHT;Budget GIZ;Budget[9.00
13 14 5 2.1 Develop international academic cooperation and exchange program for col 2.0 wildow 480 days Mon 02.015 Fit 37.02.15 15 12 2.2 Inglement international academic cooperation and exchange program for col 2.0 wildow 480 days Mon 02.015 Fit 30.12.16 15 12 5.2.2 Inglement it Brain Gain' program for motivaling Kosova cademics working abroad (online portal) 480 days Mon 02.015 Fit 30.12.16 16 12 5.2.3 Lingtement it Brain Gain' program for motivaling Kosova cademics working 457 days Thu 02.015 Fit 30.12.16 17 5.3.1 Introduce Student Reacement Service including service 12 days Thu 15.0.15 Fit 30.0.15 Fit 30.12.16 18 0 5.3.2 Develop and implement infolamment and recrutalinmet events for TI 1 days Mon 02.0.15 Fit 30.0.15 12 0 5.3.4 Design and implement infolamment and recrutalinmet events for TI 1 day Mon 03.10.16 12 3 5.3.1 Develop concept for the Kosovo T scholarship program 500 days Mon 03.10.16 Mon 03.10.16 Mon 03.10.16 12 4.5.1 Develop concept for the Kosovo T scholarship program 500 days Mon 02.0.115 Fit 30.0.12.16 <td>MASHT;Budget MASHT;Budget</td>	MASHT;Budget MASHT;Budget
14 5.2 Implement international academic cooperation and exchange program for 2.2 Is Stabilish interview of Koscov academics working is 2.2 Is stabilish interview of Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating Koscov academics working is 2.2 Implement iBrain Gain' program for motivating integration into STIKK is is 3.1 Develop and implement specific Koscov is is 3.2 Develop and implement specific Koscov is is 3.3 Develop and implement indoalinement and recrutainment events for IT is 3.3 Develop and implement indoalinement and recrutainment events for IT is 3.3 Develop and implement indoalinement and recrutainment events for IT is 3.3 Develop and implement indoalinement and recrutainment events for IT is 3.3 Develop and implement indoalinement and recrutainment events for IT is 3.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT students is 5.3 Develop concept for STIKK competence assessment standard for IT s	MASHT;Budget MASHT;Budget
15 2) 5.23 Establish network of Kosovo academics working abroad (online portal) 480 days Mon 20.315 Fri 30.12.16 16 3.2.4 Implement Train Gain' program for motiveling Kosovo academics working 490 days Thu 0.20.115 Fri 30.12.16 17 5.3.1 Indradues Student Placement Service, including integration to STIKK (bit 12 days Thu 15.01.15 Fri 30.12.16 18 3.3.1 Develop service concept for the Student Placement Service, including integration to STIKK (bit 12 days Thu 15.01.15 Fri 30.12.16 19 5.3.3 Develop and Implement Infolainment and recrutainment events for IT 12 days Thu 0.11.015 Thu 0.11.015 20 3.3.4 Design and implement Infolainment and recrutainment events for IT 1 day Mon 0.20.15 Mon 0.20.15 21 5.3.4 Design and implement Infolainment and recrutainment events for IT 1 day Mon 0.31.016 I I strikk; Budget(3.000 €] 22 5.4.1 Inveduce Kosovo IT scholarship program 545 days Mon 0.21.15 Fri 30.12.16 23 5.5.1 Develop concept for Kososvo IT scholarship program 545 days Mon 0.22.15 Fri 30.12.16 22 5.5.1 Develop concept for STIKK competence assessment standard for IT students 305 days Mon 0.21.15 Fri 30.12.16	MASHT;Budget MASHT;Budget
16 17 5.2.4 Implement "Brain Gain" program for motivating Kosovo academics working 457 days Thu 020415 Fri 30.12.16 17 5.3.1 Develop service concept for the Student Placement Service including integration into STIKK; 512 days Thu 150.115 Fri 30.12.16 18 10 5.3.2 Develop service concept for the Student Placement Service including integration into STIKK; 11 days Mon 020.215 Kni 160.215 19 5.3.2 Develop and implement service including integration into STIKK; 11 days Mon 020.215 Kni 160.215 21 Q 5.3.4 Develop and implement infolainment and recrutainment events for IT 1 days Mon 020.516 Mon 020.516 22 15 5.4.4 Develop concept for the Kosovo IT scholarship program 554 days Mon 01.12.14 Fri 30.1.26 23 10 5.4.1 Develop concept for the Kosovo IT scholarship program 554 days Mon 01.12.14 Fri 30.1.26 24 10 5.4.2 Implement and manage STIKK competence assessment standard for IT students 300 days Mon 02.1.15 Fri 30.1.2.16 25 5.4.1 Introduce STIKK competence assessment standard for IT students 300 days Mon 02.1.15 Fri 30.1.2.16 26 1 5.1 Develop con	GIZ;Budget[9.0(
17 5.3.1 Introduce Student Placement Service (SPS) 512 days Thu 15.01.15 Fri 30.12.16 18 0 5.3.1 Develop service concept for the Student Placement Service including integration into STIKK (Sudget1.000 €] Thu 15.01.15 Fri 30.01.15 20 18 5.3.2 Umplement Student Placement Service including integration into STIKK (Sudget1.000 €] Thu 01.10.15 Mon 02.03.15 Fri 30.12.16 20 18 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Thu 01.10.15 Mon 02.03.16 Mon 02.03.16 Mon 02.03.16 21 0 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Thu 01.10.15 Mon 03.01.06 22 18 5.4.1 Develop concept for the Socool T scholarship program 545 days Mon 01.12.14 Fri 30.12.16 23 16 5.4.1 Develop concept for Kosoor IT scholarship program 505 days Mon 02.01.15 Fri 30.12.16 24 15 5.5.1 Develop concept for Kosoor IT scholarship program 505 days Mon 02.01.16 Fri 30.12.16 25 5.5.1 Develop concept for scholarship program 505 days Mon 02.01.15 Fri 30.12.16 Mon 02.01.16 Fri 30.12.16 26<	GIZ;Budget[9.00
18 12 5.3.1 Develop service concept for the Student Placement Service including service. Including integration into STIKK jo Thu 15.01.15 Fi 30.01.15 19 6.3.2 Implement Student Placement Service. Including integration into STIKK jo 11 days Mon 02.02.15 Mon 16.02.15 10 5.3.3 Develop and implement special Student Placement Service. Including integration into STIKK jo 11 days Mon 02.02.15 Fin 30.01.15 21 -0 5.3.4 Design and implement infotainment and recrutainment events for IT 263 days Thu 01.10.15 Thu 01.10.15 Thu 01.10.15 23 25 5.4.1 Introduce Kosovo IT scholarship program 545 days Mon 02.02.16 Mon 02.02.16 Mon 02.02.16 24 25 5.4.1 Introduce Kosovo IT scholarship program 550 days Mon 01.21.41 Fi 30.12.16 27 5.4.2.Implement and manage the Kosovo IT scholarship program 550 days Mon 02.02.15 Fi 30.02.16 28 5.5.1 Introduce STIKK competence assessment standard for IT students 286 days Mon 02.01.15 Fi 30.12.16 29 1 5.6 Estabilish university ranking (methodology, evaluation cirteria, e 226 days Mon 02.01.16 Fi 30.12.16 31 5.6 S.2.2 Unplement and manage Bi	
19 5.22 Implement Student Placement Service including integration into STIKK, p 11 days Mon 02.02.15 Mon 16.02.15 20 14 5.3.3 Develop and implement special Student Placement Service for Kosovo s 480 days Mon 02.03.15 Fri 30.12.16 21 - 5.3.4 Design and implement indtainment and recrutainment events for IT 1 day Thu 01.10.15 Mon 02.03.15 Fri 30.12.16 22 13 5.3.4 Design and implement indtainment and recrutainment events for IT 1 day Mon 03.10.16 Mon 03.10.16 23 15 5.4.1 Design and implement indtainment and recrutainment events for IT 1 day Mon 02.02.16 Fri 30.12.16 24 25 5.4.1 Develop concept for the Kosov IT scholarship program 505 days Mon 02.02.15 Fri 30.12.16 25 5.4.1 Develop concept for STIKK competence assessment standard for IT studet 21 days Mon 02.02.15 Fri 30.12.16 26 15 5.2 Implement and manage the Kosov IT scholarship program 505 days Mon 02.11.15 Fri 30.12.16 27 5.4.1 Develop concept for STIKK competence assessment standard for IT studet 21 days Mon 02.01.16 Fri 30.12.16 26 5.5.1 Implement and manage the Kosovo IT scholars	
20 14 5.3.3 Develop and implement special Student Placement Service for Kossovs s 480 days Mon 02.03 16 Fi 30.12.16 21 C 5.3.4 Design and implement infotalimment and recrutainment events for IT 283 days Thu 01.10.15 Mon 02.03 16 Fi 30.12.16 23 TG 5.3.4 Design and implement infotalimment events for IT 1 day Mon 02.05 16 Mon 02.05 16 Mon 02.05 16 23 TG 5.3.4 Design and implement infotalimment events for IT 1 day Mon 02.05 16 Mon 02.05 16 Mon 02.05 16 24 TG 5.4.1 Develop concept for the Kossov IT scholarship program 545 days Mon 02.11.15 Fri 30.12.16 27 5.4.2 Implement and manage the Kossov IT scholarship program 500 days Mon 02.01.16 Fri 30.12.16 28 TG 5.5.1 Introduce STIKK completone assessment standard for IT students 305 days Mon 02.01.16 Fri 30.12.16 29 TG 5.5.1 Develop concept for university ranking (methodology, evaluation criteria, e 22 days Mon 04.01.16 Fri 30.12.16 30 5.6.2 Conduct university ranking (werb/2 years) 316 days Mon 02.01.16 Fri 30.12.16 31 5.6.1 Develop concept for Ini	
21 ① 5.3.4 Design and implement infotainment and recrutainment events for IT 163 days Thu 01.10.15 Mon 03.10.16 22 11 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Thu 01.10.15 Thu 01.10.15 Thu 01.10.15 Thu 01.10.15 22 11 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Mon 02.05.16 Mon 02.05.16 Mon 03.10.16 24 12 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Mon 03.10.16 Mon 03.10.16 Mon 03.10.16 25 5.4.1 Introduce Kosovo IT scholarship program 550 days Mon 01.2.14 Fri 30.0.16 Fri 30.0.16 27 5.4.2.1 upletement and manage the Kosovo IT scholarship program 500 days Mon 02.0.15 Fri 30.12.16 28 5.5.1 Introduce STIKK competence assessment standard for IT students 305 days Mon 02.1.15 Fri 30.12.16 29 1 5.6 Estabilish university ranking (TT) 280 days Mon 02.0.15 Fri 30.12.16 31 5.6 Introduce STIKK competence assessment standard for IT students 280 days Mon 02.0.15 Fri 30.12.16 32 5.1 Introduce Mational I	
22 11 5.3.4 Design and implement indtainment and recrutainment events for IT 1 day Thu 01.10.15 Thu 01.10.15 23 12 5.3.4 Design and implement indtainment and recrutainment events for IT 1 day Mon 02.05.16 Mo	;Budget[3.000 €]
23 11 5.3.4 Design and implement infotainment and recrutainment events for IT 1 day Mon 02.05.16	;Budget[3.000 €]
24 11 5.3.4 Design and implement indicament and recrutainment events for IT 1 day Mon 03.10.16 <	;Budget[3.000 €]
25 5.4 Introduce Kosovo IT Scholarship program 545 days Mon 01.12.14 Fri 30.12.16 28 3.5 4.1 Develop concept for the Kosovo IT Scholarship program 505 days Mon 01.12.14 Fri 30.12.16 28 5.4.1 Develop concept for the Kosovo IT Scholarship program 500 days Mon 02.11.15 Fri 30.01.15 28 5.5.1 Develop concept for the Kosovo IT Scholarship program 500 days Mon 02.11.15 Fri 30.12.16 29 20 5.5.1 Develop concept for STIKK competence assessment standard for IT Students 305 days Mon 02.11.15 Fri 30.12.16 29 30 5.5.1 Develop concept for Thick competence assessment standard for IT Students 208 days Mon 02.01.15 Fri 30.12.16 31 5.6.1 Develop concept for University ranking (IT) 226 days Mon 02.01.16 Fri 30.12.16 32 5.6.1 Develop concept for University ranking (methodology, evaluation criteria, e 20 days Mon 02.03.15 Mon 02.03.15 31 5.7.1 Develop concept for University ranking (methodology, evaluation criteria, e 20 days Mon 02.03.15 Mon 10.2.16 Fri 30.12.16 32 5.7.1 Develop concept for Minking IT (Dympics of on an annual basis 262 days Fri 30.12.16 Fri 30.12.16 <td>, Buuget[3.000 €]</td>	, Buuget[3.000 €]
26 11 5.4.1 Develop concept for the Kosovo IT scholarship program (application proce 45 days Mon 01.12.14 Fit 30.01.15 27 5.4.2 Implement and manage the Kosovo IT scholarship program (application proce 45 days Mon 02.02.15 Fit 30.01.15 28 5.5.1 Develop concept for STIKK competence assessment standard for IT students 305 days Mon 02.11.15 Fit 30.12.16 29 0 5.5.2 Implement and manage TKK competence assessment standard for IT students 20 days Mon 02.11.15 Fit 30.12.16 31 5.6 Estabilish university ranking (IT) 260 days Mon 04.01.16 Fit 30.12.16 32 15 5.1 Develop concept for university ranking (methodology, evaluation cirteria, e 20 days Mon 04.01.16 Fit 30.12.16 33 5.6.1 Develop concept for National IT Olympics 240 days Mon 04.01.16 Fit 30.12.16 34 5.7.1 Introduce National IT Olympics on an annual basis 216 days Mon 02.03.15 Mon 16.05.16 36 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fit 15.05.15 Fit 15.05.15 Fit 15.05.16 Fit 15.05.16 36 5.7.2 Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16	
27 5.4.2 Implement and manage the Kosovo IT scholarship program 500 days Mon 02.0.2.6 F1 30.12.16 28 5.5 Introduce STIKK competence assessment standard for IT studets 305 days Mon 02.11.15 F1 30.12.16 29 5.5.1 Develop concept for STIKK competence assessment standard for IT studets 21 days Mon 02.11.15 F1 30.12.16 30 5.5.2 Exblish university ranking (T) 280 days Mon 02.11.16 F1 30.12.16 31 5.6.2 Conduct university ranking (remtodcogy, evaluation criteria, e 20 days Mon 02.01.16 F1 30.01.16 33 5.7.1 Introduce National IT Olympics 316 days Mon 02.03.15 Mon 16.03.15 35 5.7.1 Develop concept for National IT Olympics on an annual basis 1 11 days Mon 02.03.15 Mon 16.03.16 37 15 5.7.2 Organize National IT Olympics on an annual basis 1 1 day F1 15.05.15 F1 15.05.16 Mon 16.05.16 31 5.7.2 Organize National IT Olympics on an annual basis 1 1 day F1 day 5.16 Mon 16.05.16 I I STIKK; Budget[1.500 c] I STIKK; Budget[1.500 c] 32 15 5.7.2 Organize National IT Olympics on an annual basis 2 1 day F1 15.05.15 F1 15.05.16 F1	
28 5.5 Introduce STIKK competence assessment standard for IT students 305 days Mon 02.11.15 Fri 30.12.16 29 1 5.5 Introduce STIKK competence assessment standard for IT students 21 days Mon 02.11.15 Fri 30.12.16 29 5.5.1 Develop concept for STIKK competence assessment standard for IT students 21 days Mon 02.11.15 Fri 30.12.16 31 5.5.5 Lyndjement and manage STIKK competence assessment standard for IT students 226 days Mon 04.01.16 Fri 30.12.16 32 34 5.6.1 Develop concept for university ranking (methodology, evaluation criteria, e 20 days Mon 04.01.16 Fri 30.12.16 33 5.6.2 Conduct university ranking (methodology, evaluation criteria, e 20 days Mon 02.03.15 Mon 16.05.16 34 5.7.1 Introduce National IT Olympics 316 days Mon 02.03.15 Mon 16.05.16 35 5.7.2 Organize National IT Olympics on an annual basis 262 days Fri 15.05.15 Mon 16.05.16 37 37 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Mon 16.05.16 I 38 5.7.2 Organize National IT Olympics on an annual basis 2 1 day Fri 15.05.15 Kon 16.05.16 I	OTIVIC Dude of
29 Image STKK competence assessment standard for IT stude 21 days Mon 02.11.15 Mon 30.11.15 30 5.5.2 implement and manage STKK competence assessment standard for IT stude 24 days Ture 01.21.5 Fri 30.12.16 31 5.6 Establish university ranking (TT) 280 days Mon 04.01.16 Fri 30.12.16 32 Image STKK (Studget[5.000 C]) 20 days Mon 04.01.16 Fri 29.01.16 33 5.6.1 Develop concept for National IT Olympics 240 days Mon 04.01.16 Fri 29.01.16 34 5.7.1 Introduce National IT Olympics (format, program, organization, 111 days Mon 02.03.15 Mon 16.03.16 35 Image STIKK, Budget[5.000 C] 11 days Fri 150.515 Mon 16.03.16 36 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 150.515 Mon 16.03.16 37 Image ST.2. Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 I STIKK; Budget[1.500 C] 37 Image ST.2. Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 I STIKK; Budget[1.500 C] 37 Image ST.2. Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 I STIKK; Budget[1.500 C]	STIKK;Budget[S
30 5.5.2 Implement and manage STIKK competence assessment standard for IT s 284 days Tue 01.12.15 Fri 30.12.16 31 5.6 Establish university ranking (IT) 226 days Mon 04.01.16 Fri 30.12.16 32 16 5.6.1 Develop concept for university ranking (methodology, evaluation criteria, e 20 days Mon 04.01.16 Fri 30.12.16 33 5.6.2 Conduct university ranking (every 2 years) 240 days Mon 02.01.16 Fri 30.12.16 34 5.7.1 Introduce National IT Olympics (format, program, organization) 316 days Mon 02.03.15 Mon 16.05.16 35 17 5.7.1 Organize National IT Olympics on an annual basis 262 days Fri 15.05.15 Mon 16.05.16 36 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Fri 15.05.15 IT ISTIKK;Budget[1.500 €] 37 16 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 IT ISTIKK;Budget[1.500 €] 38 17.2 Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 Mon 16.05.16 IT ISTIKK;Budget[1.500 €] ISTIKK;Budget[1.500 €] ISTIKK;Budget[1.500 €] <	- •
31 5.6 Establish university ranking (T) 260 days Mon 04.01.16 Fri 30.12.16 32 5.6.1 Develop concept for university ranking (revery 2years) 240 days Mon 04.01.16 Fri 29.01.16 33 5.6.2 Conduct university ranking (revery 2years) 240 days Mon 04.01.16 Fri 29.01.16 34 5.7 Introduce National IT Olympics 316 days Mon 02.03.15 Mon 16.05.16 35 5.7.1 Develop concept for National IT Olympics (ormat, program, organization, interversity ranking IT Olympics on an annual basis 11 day Fri 15.05.15 Mon 16.05.16 36 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Mon 16.05.16 I 37 13 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Mon 16.05.16 I I 38 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Fri 15.05.15 I STRKK;Budget[1.500 €] I 31 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 I STRK;Budget[1.500 €] I STRK;Budget[1.500 €] I STRK;Budget[1.500 €]	STIKK;Budget[2
32 Image: Solid Develop concept for university ranking (wethodology, evaluation criteria, e 20 days Mon 04.01.16 Fri 29.01.16 33 5.6.1 Develop concept for university ranking (wethodology, evaluation criteria, e 20 days Mon 01.02.16 Fri 39.01.16 Fri 39.01.16 33 5.6.2 Conduct university ranking (wethodology, evaluation criteria, e 20 days Mon 01.02.16 Fri 39.01.16 Fri 39.01.16 34 5.7.1 Introduce National IT Olympics S7.1 Introduce National IT Olympics (format, program, organization, 11 days Mon 02.03.15 Mon 16.05.16 STIKK;Budget[3.000 €] 36 C 5.7.2 Organize National IT Olympics on an annual basis 226 days Fri 15.05.15 Fri 15.05.15 I STIKK;Budget[1.500 €] 37 S.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Fri 15.05.15 I I I I 38 S.7.2 Organize National IT Olympics on an annual basis 1 1 day Mon 16.05.16 Mon 16.05.16 I I I I 38 S.7.2 Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 Mon 16.05.16 I I I I I I I <td< td=""><td>STIKK;Budget[2</td></td<>	STIKK;Budget[2
33 5.6.2 Conduct university ranking (every 2 years) 240 days Mon 01 02.16 Fri 30.12.16 34 5.7 Introduce National IT Olympics (format, program, organization,	- •
34 5.7 Introduce National IT Olympics 316 days Mon 02.03.15 Mon 16.05.16 35 35 5.7.1 Develop concept for National IT Olympics (format, program, organization, inc.) 11 days Mon 02.03.15 Mon 16.03.16 36 5.7.2 Organize National IT Olympics on an annual basis 252 days Fn1 150.515 Mon 16.03.16 37 37 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fn1 150.515 Fn1 150.515 38 70 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fn1 150.516 I STIKK;Budget[1.500 €] 31 31 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fn1 150.516 I STIKK;Budget[1.500 €]	STIKK;Budget[6
35 Image: S.7.1 Develop concept for National IT Olympics (format, program, organization, 11 days Mon 02.03.15 Mon 16.03.15 Image: STIKK;Budget[3.000 €] 36 C 5.7.2 Organize National IT Olympics on an annual basis Z62 days Fit 15.05.15 Mon 16.05.16 Image: STIKK;Budget[1.500 €] Image:	S IKK, Buugette
36 5 7.2 Organize National IT Olympics on an annual basis 262 days Fri 15.05.15 Mon 16.05.16 I I I 37 Im 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 Fri 15.05.15 ISTIKK;Budget[1.500 €]	
37 III 5.7.2 Organize National IT Olympics on an annual basis 1 1 day Fri 15.05.15 I STIKK;Budget[1.500 €] 38 III 5.7.2 Organize National IT Olympics on an annual basis 2 1 day Mon 16.05.16 Mon 16.05.16 I STIKK;Budget[1.500 €]	
38 🖬 5.7.2 Organize National IT Olympics on an annual basis 2 1 1 day Mon 16.05.16 Mon 16.05.16 J	
30 and 5.8 Promotion particles and interpretation 2.2 Citizet and a citi	
5.1.1 Conduct needs assessment for part-line and distance learning IT education 2 1 days Fri 01.01.16 Fri 29.01.16	
42 5.8.3 Implement part-time and distance learning IT education programs 197 days Thu 31.03.16 Fri 30.12.16	UNIV;Budget[60
43 5.9 Establish Kosovo Institute of Digital Technology (PPP) 458 days Wed 01.04.15 Fri 30.12.16	- on t, Budgettee
44 T 5.9.1 Baborate concept for the KIDT including functions, organizational structure 43 days Wed 01.04.15 Fn 29.05.15	Ť
45 5.9.2 Establish and manage the KIDT 45 6.9.2 Establish and manage the KIDT	MASHT;Budget
5.9.3 Establish patherships with relevant universities, research institutes and or 230 days Tue (20,216 Fr 30.12,16	SDC;Budget[3.0
47 5.10 Promote MINT subjects in primary and secondary education 415 days Mon 01.06.15 Frl 30.12.16	
MASHT, Budget 10.000 €	1
49 5.10.2 Revise curricula and implement proposal for promoting MINT subjects in 1393 days Wed 01.07.15 Fri 30.12.16	MASHT;Budget
50 🖬 5.10.3 Develop and implement further education program (teacher-training) in te 383 days Wed 15.07.15 Fri 30.12.16	MASHT;Budget
51 5.11 Promote university alliance programs 3 327 days Thu 01.10.15 Fri 30.12.16	-
52 • 5.11.1 Identify suitable allance partners and areas of cooperation (multinational 22 days Thu 01.10.15 Fri 30.10.15	1
5.11.2 Establish and implement university alliance programs 305 days Mon 02.11.15 Fri 30.12.16	UNIV;Budget[3.
54 5.12 Introduce vocational education for IT 480 days Non 02.03.15 Fri 30.12.16	
55 📷 5.12.1 Develop implementation concept and curricula for vocational IT education 65 days Mon 02.03.15 Fri 29.05.15	
56 5.12.2 Establish vocational education for IT in Kosovo 415 days Mon 01.06.15 Fri 30.12.16	
56 5.12.2 Establish vocational education for II in Kosovo 415 days Mon U1.06.15 Fn 30.12.16	UNIV;Budget[3

5.2.6. Timetable Strategic Pillar 6: IT Clusters & Collaboration

Task Name	Priority	Duration	Start	Finish	Half 1, 2014 Half 2, 2014 Half 1, 2015 Half 2, 2015 Half 1, 2016 Half 2, 2016 Half 1, 2017 H J F M M J J A S O N D J F M M J J A S O N D J F M A J J A S O N D J F M A J J A S O N D J F M A J J A S O N D J F M A M J J A S O N D J F M M J J A S O N D J F M M J J A S O N D J N M M J
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]
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	<mark>⊪</mark> GIZ;Budget[€4.000]
6.1.3 Provide cluster management manual and toolbox	1	5 days	Mon 14.12.15	Fri 18.12.15	F GIZ;Budget
6.2 Establish STIKK as an IT Cluster of Excellence	2	500 days	Mon 02.02.15	Fri 30.12.16	
6.2.1 Develop cluster business plan for STIKK (IT Cluster of Excellence)	2	31 days	Mon 02.02.15	Mon 16.03.15	STIKK;GIZ;Budget[€6.000]
6.2.2 Further develop organizational structure and process model of STIKK	2	65 days	Tue 17.03.15	Mon 15.06.15	STIKK;GIZ;Budget[€8.000]
6.2.3 Develop and implement STIKK service portfolio (including integration of existing services)) 2	76 days	Tue 17.03.15	Tue 30.06.15	STIKK;GIZ;Budget[€15.000]
6.2.4 Introduces a collaborative software application / groupware or ECM application (e.g. Shar	7 2	22 days	Tue 16.06.15	Wed 15.07.15	5TIKK;Budget[€6.000]
			Tue 16.06.15	Fri 30.12.16	STIKK;Budget[€2
	2		Mon 02.02.15	Wed 03.08.16	GIZ;Budget[€3.000]
	2				
	1				
· · · · · · · · · · · · · · · · · · ·	1				STIKK;Budget[€1.000]
	1				
-					STIKK;Budget[€4.000]
	-				I
-					I T STIKK;Budget[€6.000]
					I STIKK;Budget[€6.000]
	-				GIZ;Budget[€3.000]
	-				GIZ;Budget[€3.000]
-	4				
					STIKK;Budget[€5.000]
	2				STIKK;Budget[€12.000]
	2	141 Control 100 E. (16)			
	- 2				MZHE;EU;Budget[€3.000]
					MZHE;Budget[€30.000]
	2	-			C KRPP;Budget[€2.000]
	2	-			
	2				STIKK;Budget[€5.000]
	2				STIKK;Budget[€12.000]
6.7 Support the OSS community	2		Fri 10.10.14	Fri 14.10.16	
6.7.1 Support the organization and implementation of the Software Freedom Kosova Cor	2	527 days		Fri 14.10.16	IIIIII
6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf	F 2	2 days	Fri 10.10.14	Sun 12.10.14	I EU;USAID;Budget[€3.000]
6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf	2	2 days	Tue 13.10.15	Wed 14.10.15	I EU;USAID;Budget[€3.000]
6.7.1 Support the organization and implementation of the Software Freedom Kosova Conf	F 2	2 days	Thu 13.10.16	Fri 14.10.16	I EU;USAID;Budget[€3.000
6.7.2 Promote cooperation between FLOSSK and international OSS communities	2	303 days	Mon 03.11.14	Wed 30.12.15	(NMFA;GIZ;Budget[€1.000]
6.8 Establish joint competence center on EU projects	2	349 days	Tue 01.09.15	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
6.8.1 Develop concept for the joint competence center on EU projects including services portfo	2	9 days	Tue 01.09.15	Fri 11.09.15	ם STIKK;Budget[€3.000]
6.8.2 Implement and operate joint competence center on EU projects	2	340 days	Mon 14.09.15	Fri 30.12.16	STIKK;Budget[€9.
6.9 Promote international cluster linkage	2	720 days	Tue 01.04.14	Fri 30.12.16	V
6.9.1 Identify suitable cooperation partners (IT clusters and association) and identify areas of c	2	198 days	Tue 01.04.14	Wed 31.12.14	GIZ;Budget[€2.000]
6.9.2 Establish cooperation with IT clusters and associations	2	698 days	Thu 01.05.14	Fri 30.12.16	STIKK;GIZ;Budge
6.10 Establish special competence groups for strategic IT topics ("Triple Helix")	2	436 days	Fri 01.05.15	Fri 30.12.16	
6.10.1 Develop concept for the SCGs including goals, structure and procedures	7	11 days	Fri 01.05.15	Fri 15.05.15	GIZ;Budget[€1.000]
6.10.2 Define the topics for the SCGs	2	15 days	Mon 18.05.15		
6.10.3 Establish and manage the SCGs	2	410 days	Mon 08.06.15		
-	2				EU;Budget[€6.000
6.10.5 Organize international linkage to similar competence groups or networks		305 days	Mon 02.11.15	Fri 30.12.16	GIZ;NMFA;Budge
6.10.5 organize international initiage to annual competence groups of networks		ooo days	WOIT 02.111.15	111 00.12.10	
	6.1.2 Conduct training workshop (3 days) on IT cluster management for selected stakeholders 6.1.3 Provide cluster management manual and toolbox 6.2 Estabilish STIKA as an IT Cluster of Excellence 6.2.1 Develop cluster business plan for STIKK (IT Cluster of Excellence) 6.2.2 Further develop or ganizational structure and process model of STIKK 6.2.3 Develop and implement STIKK service portfolio (including integration of existing services 6.2.4 Introduces a collaborative software application / groupware or ECM application (e.g. Sha 6.2.5 Introduce QM system and support certification of STIKK according to ISO 9001 or a com 6.2.6 Support STIKK in enlarging its membership base 6.2.7 Integrate universities into STIKK as associated members 6.3 Establish international advisory board within STIKK ("Brand Ambassadors") 6.3.1 Develop concept and selection criteria for the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Develop concept and selection criteria for specialized sub-clusters 6.4.2 Elaborater organizational concept for specialized sub-clusters 6.4.2 Elaborater organizational concept for specialized sub-clusters 6.4.3 Etablish specialized sub-clusters 6.4.4 Develop and implement action plongram 6.5.1 Develop cluster promotion program 6.5.1 Develop cluster promotion program 6.5.1 Develop cluster promotion program 6.5.1 Support the organization and implementation of the Software Freedom Kosova Com 6.7.1 Support the organization and implementation of the Softw	6.1.2 Conduct training workshop (3 days) on IT cluster management for selected stakeholders 6.1.3 Provide cluster management manual and toolbox 6.2 Estabilish STIKK as an IT Cluster of Excellence 6.2.1 Develop cluster business plan for STIKK (IT Cluster of Excellence) 6.2.2 Further develop organizational structure and process model of STIKK 6.2.3 Develop and implement STIKK service portfolio (including integration of existing services) 6.2.4 Introduces a collaborative software application / groupware or ECM application (e.g. Shar 6.2.5 Introduce OM system and support certification of STIKK according to ISO 9001 or a comp 6.2.6 Support STIKK in enlarging its membership base 6.2.7 Integrate universities into STIKK as associated members 6.3 Establish international advisory board within STIKK ("Brand Ambassadors") 6.3.1 Develop concept and selection criteria for the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Organize annual meetings / reunions of the international advisory board 6.3.4 Develop concept and selection criteria for specialized sub-clusters 6.4.2 Elaborater organizational concept for specialized sub-clusters 6.4.2 Elaborater organizational concept for specialized sub-clusters 6.4.2 Elaborater organizational concept for specialized sub-clusters 6.4.1 develop and implement action program 6.5.1 Develop cluster promotion program 6.5.1 Develop cluster promotion program 6.5.1 Elaborate concept and requirements specification for the STIKK job exchange	6.1.1 Elaborate training material and case studies on IT cluster management 21 days 6.1.2 Conduct training workshop (3 days) on IT cluster management for selected stakeholdes 5 days 6.1.3 Provide cluster management manual and toolbox 5 days 6.2 Establish STKK as an IT Cluster of Excellence 500 days 6.2.1 Develop cluster business plan for STIKK (IT Cluster of Excellence) 5.1 days 6.2.2 Further develop organizational structure and process model of STIKK 65 days 6.2.3 Develop and implement STIKK service portfolio (including integration of existing services) 76 days 6.2.4 Introduces a collaborative software application / groupware or ECM application (e.g. Shoplication (e.g. Shopl	6.1.1 Elaborate training material and case studies on IT cluster management 21 days Mon 021115 6.1.2 Conduct training workshop (3 days) on IT cluster management for selected stakeholders 5 days Mon 07 1215 6.3.3 Provide cluster trainagement manual and toolbox 5 days Mon 02215 6.2.2 Further develop organizational structure and process model of STIKK 65 days Tue 17 0315 6.2.3 Develop und implement STIKK service portiolio (including integration of existing services) 76 days Tue 17 0315 6.2.5 Introduce S a collaborative software application (gouynear or ECM application (e.g. Shar 22 days Tue 16 0815 6.2.5 Introduce M system and support certification of STIKK as associated members 66 days Mon 02 1214 6.3.2 Integrate universities into STIKK as associated members 66 days Mon 01 1214 6.3.3 Lobelop STIKK in enlamistonial advisory board 5 days Mon 01 1214 6.3.3 Lobelop concept and selection citeria for the international advisory board 5 days Mon 01 1214 6.3.4 Organize annual meetings / reunions of the international advisory board 5 days Mon 01 1214 6.3.4 Organize annual meetings / reunions of the international advisory board 1 day Fri 23 1015 6.4.4 Capanize annual meetings / reunions of the international advisory board 1 d	6.1.1 Eleborate training workhold (3 days) on T duster management for selected stakeholders 5 days Mon 02.1.1:6 Mon 02.1.1:6 Mon 02.1.1:6 Mon 02.1.2:5 Fri 1.11.2.1:5 6.1.2 Stabilsh STKK are an T Cluster of Excellence) 5 days Mon 02.0.2:5 Fri 3.0.2.1:6 6.2.1 Develop duster business pain for STKK (T Cluster of Excellence) 5 days Mon 02.0.2:5 Mon 160.3:5 6.2.2 Fri StK series portiol (including integration of existing services) 7 days Mon 02.0.2:15 Mon 150.6:15 6.2.3 Develop duster business pain for STKK (Cluster of Excellence) 31 days Mon 02.0.2:15 Mon 150.6:15 6.2.4 Interview on apport entification (number apportant) (arcupaware or ECM application (e.g. Shar 22 days Ture 160.6:15 Fri 3.0:12:16 6.2.5 Interview on StKK as associated members 66 days Ture 160.6:15 Fri 3.0:12:16 6.3.4 Develop duster trainage intermational advisory board 5 days Mon 01:12:14 Wed 03.0:16 6.3.1 Develop concept and selection ontrivie for the international advisory board 223 days Mon 01:12:14 Wed 03.0:16 6.3.4 Organize annual meetings reunions of the international advisory board 1 day Fri 23:

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
1	7.1 Establish mentoring committee at STIKK / ICK	3	327 days T	Thu 01.10.15	Fri 30.12.16	
2	7.1.1 Elaborate concept for the mentoring committee (members, procedures, etc.)	3	5 days 1	Thu 01.10.15	Wed 07.10.15	ראקאנין אינאניגענינ[1.000 €]
3	7.1.2 Establish mentoring committee at STIKK / ICK and conduct coachings for start-ups	3	7 days 1	Thu 08.10.15	Fri 16.10.15	j
4	7.1.3 Organize monthly entrepreneurship dinners with the members of the mentoring committ	ti 3	315 days N	fon 19.10.15	Fri 30.12.16	j [CK;Budget[8.000 €]
5	7.2 Support the establishment of the Kosovo Business Angels and VC Association	1	555 days M	lon 17.11.14	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
6	7.2.1 Elaborate a proposal for the establishment of a Kosovo Business Angels and VC Assoc	1	13 days N	fon 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 1	Thu 04.12.14	Wed 31.12.14	USAID;Budget[3.000 €]
8	7.2.3 Support the establishment of the Kosovo Business Angels and VC Association (technici	ε 1	107 days 1	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 (partic	1	415 days N	fon 01.06.15	Fri 30.12.16	S USAID;Budget[8.000 €]
10	7.3 Organize B2B match-making events between investors and IT entrepreneurs on a nation	n 1	420 days M	lon 02.03.15	Fri 07.10.16	
11	7.3.1 Provide preparatory trainings for IT start-ups / entrepreneurs participating in match-mak			fon 02.03.15	Thu 30.04.15	
12 0	7.3.2 Conduct at least 3 B2B match-making events between investors and IT entrepren	6	354 days T	Tue 02.06.15	Fri 07.10.16	
13	7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene			Tue 02.06.15	Wed 03.06.15	
14	7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene			/ed 01.06.16	Thu 02.06.16	
15	7.3.2 Conduct at least 3 B2B match-making events between investors and IT entreprene		21 - 22 - 23 - 23 - 23 - 23 - 23 - 23 -	Thu 06.10.16	Fri 07.10.16	· · · · · · · · · · · · · · · · · · ·
16	7.4 Organize international VC4IT conference in Kosovo		5. S. C. S.	Thu 15.10.15	Mon 02.05.16	
1.815	7.4. Organize international VC411 conference in Kosovo 7.4.1 Develop concept for the VC41T conference (program, financing, participants, logistics, e		10. 00.000 COO.	Thu 15.10.15	Fri 06.11.15	
1000	7.4.1 Develop concept for the VC411 conference (program, financing, participants, logistics, e 7.4.2 Organize international VC41T conference in Kosovo			fon 09.11.15	Mon 02.05.16	
18				/ed 01.04.15	Fri 30.12.16	
22.0	7.5 Introduce specialized consulting & coaching service for IT entrepreneurs and start-ups		100000000000000000000000000000000000000			
20	7.5.1 Conduct needs assessment with ICK and its member companies (incubator) (e.g. through		22.231/22/2005/02/02/22/2	/ed 01.04.15	Fri 17.04.15	
21	7.5.2 Develop concept for the specialized consulting & coaching service for IT entrepreneurs		90620365 8 078	1on 20.04.15	Wed 20.05.15	
22	7.5.3 Develop financial support scheme for the specialized consulting services for entreprene		0.00000	Thu 21.05.15	Fri 29.05.15	
23	7.5.4 Establish pool of suitable consultants and coaches (see Task 7.1 Coaching committee)		122200000000000000000000000000000000000	Thu 21.05.15	Fri 31.07.15	
24	7.5.5 Conduct information events on specialized consulting services for entrepreneurs and sta		1. CONTENS	Fue 01.09.15	Tue 01.09.15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25	7.5.6 Implement specialized consulting service for entrepreneurs and start-ups		10-16-07081 8 -02	/ed 02.09.15	Fri 30.12.16	
26	7.6 Establish IT Entrepreneurship Award ("DigitalOne")	1	403 days	Fri 01.05.15	Tue 15.11.16	
27	7.6.1 Define selection criteria for the IT Entrepreneurship Award	1		Fri 01.05.15	Tue 05.05.15	5 STIKK;Budget[1.000 €]
28 🔿	7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony	1		Tue 10.11.15	Tue 15.11.16	
29	7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 1			Tue 10.11.15	Thu 12.11.15	
30	7.6.2 Establish the IT Entrepreneurship award and conduct award ceremony 2	1	3 days	Fri 11.11.16	Tue 15.11.16	STIKK;Budget[3.000 €]
31	7.7 Establish high-tech start-up fund (PPP)	1	415 days M	lon 01.06.15	Fri 30.12.16	
32	7.7.1 Elaborate business plan and feasibility study for the high-tech start-up fund	1	77 days N	1on 01.06.15	Tue 15.09.15	5MZHE;Budget[30.000 €]
33	7.7.2 Establish and operate the high-tech start-up fund	1	338 days W	/ed 16.09.15	Fri 30.12.16	MZHE;Budget[5.000.000
34	7.8 Introduce IT entrepreneurship@school program	2	327 days T	Thu 01.10.15	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
35	7.8.1 Develop IT entrepreneurship@school program including business plan competition, exc	2	22 days 1	Thu 01.10.15	Fri 30.10.15	STIKK / ICK;Budget[3.000 €]
36	7.8.2 Implement IT entrepreneurship@school program	Z	305 days N	fon 02.11.15	Fri 30.12.16	5 MASHT;Budget[6.000 €]
37	7.9 Establish international linkage and sponsorship for ICK	1	609 days T	Tue 02.09.14	Fri 30.12.16	VV
38	7.9.1 Identify suitable cooperation partners for ICK in strategic export markets as well as in th	1	21 days 1	Fue 02.09.14	Tue 30.09.14	INI/IFA;GIZ;Budget[2.000 €]
39	7.9.2 Establish international linkage for ICK with incubators and innovation centers abroad	1	588 days W	/ed 01.10.14	Fri 30.12.16	S ICK;Budget[5.000 €]
40	7.9.3 Develop and implement international sponsorship program for ICK	1	450 days N	Ion 13.04.15	Fri 30.12.16	S ICK;Budget[5.000 €]
	7.10 Promote university-based IT start-ups	2	415 days M	lon 01.06.15	Fri 30.12.16	· · · · · · · · · · · · · · · · · · ·
42	7.10.1 Develop program for promoting university-based IT start-ups	2	22 days N	fon 01.06.15	Tue 30.06.15	
	7.10.2 Implement program for promoting university-based IT start-ups	7	349 days 1	Tue 01.09.15	Fri 30.12.16	
41	7.10 Promote university-based IT start-ups 7.10.1 Develop program for promoting university-based IT start-ups		415 days M 22 days M	Ion 01.06.15 Ion 01.06.15	Fri 30.12.16 Tue 30.06.15	5 5 NME A;GIZ;Budget[20.000 €]

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

0	Task Name	Priority	Duration	Start	Finish	Otr 1, 201 Otr 2, 201 Otr 3, 201 Otr 4, 201 Otr 4, 201 Otr 1, 201 Otr 2, 201 Otr 3, 201 Otr 4, 201 Otr 1, 201 Otr 2, 201 Otr 3, 201 Otr 4, 201 Otr 4, 201 Otr 2, 201 Otr 3, 201 Otr 4, 201 Otr 4, 201 Otr 2, 201 Otr 3, 201 Otr 4, 201
1	8.1 Conduct information events on Horizon 2020 program (IT)		533 days	Thu 13.03.14	Mon 28.03.16	
2	8.1.1 Analyze documents on Horizon 2020 (ICT focus) and elaborate information material for the Kosovo IT	1	11 days	Thu 13.03.14	Thu 27.03.14	CTIKK;Budget[3.000 €]
0	8.1.2 Carry out at least 3 information events on Horizon 2020 program for the Kosovo IT industry	1	523 days	Thu 27.03.14	Mon 28.03.16	I I I
	8.1.2 Carry out at least 3 information events on Horizon 2020 program for the Kosovo IT industry 1	1	1 day	Thu 27.03.14	Thu 27.03.14	TSTIKK;Budget(2.000 c]
	8.1.2 Carry out at least 3 information events on Horizon 2020 program for the Kosovo IT industry 2	1	1 day	Fri 27.03.15	Fri 27.03.15	I STIKK;Budget[2.000 €]
	8.1.2 Carry out at least 3 information events on Horizon 2020 program for the Kosovo IT industry 3	1	1 day	Sun 27.03.16	Mon 28.03.16	I STIKK;Budget[2.000 €]
_	8.2 Introduce capitalization of patents, licences and development costs (IFRS)	1	131 days	Fri 15.01.16	Fri 15.07.16	
	8.2.1 Analyze international best practices and standards and elaborate proposal for an amendment on intro		43 days	Fri 15.01.16	Tue 15.03.16	
-	8.2.2 Adopt amendment on introducing the capitalization of patents, licences and development costs		88 days	Wed 16.03.16	Fri 15.07.16	5 MF;Budget[3.000 €]
-	8.3 introduce tax incentives for investments into innovation and R&D	1	131 days	Fri 01.05.15	Fri 30.10.15	
	8.3.1 Analyze international best practices and elaborate proposal for an decree to introduce tax incentives f	1	43 days	Fri 01.05.15	Tue 30.06.15	,MF;Budget[6.000 €]
	8.3.2 Adopt decree on introducing tax incentives for investments into innovation and R&D	1	88 days	Wed 01.07.15	Fri 30.10.15	MF;Budget[3.000 €]
-	8.4 Establish open innovation system for the Kosovo IT industry	3	455 days	Mon 02.02.15	Fri 28.10.16	
0	8.4.1 Develop and implement at least 3 trainings on open innovation (methods, tools, processes, be	3	263 days	Tue 01.09.15	Thu 01.09.16	
- ŭ	8.4.1 Develop and implement at least 3 trainings on open innovation (methods, tools, processes, best	3	19 days	Tue 01.09.15	Fri 25.09.15	AASHT;Budget(3.000 C
-	8.4.1 Develop and implement at least 3 trainings on open innovation (methods, tools, processes, best	3	1 day	Mon 28.09.15	Mon 28.09.15	
-	8.4.1 Develop and implement at least 3 trainings on open innovation (methods, tools, processes, best j	3	1 day	Fri 01.04.16	Fri 01.04.16	
	8.4.1 Develop and implement at least 3 trainings on open innovation (methods, tools, processes, best		1 day	Thu 01.09.16	Thu 01.09.16	
	8.4.2 Develop and implement open innovation platform (web solution) to promote open innovation projects I	9	42 days	Mon 02.02.15	Tue 31.03.15	
0	8.4.3 Open innovation events (information events) with presentations, expert talks, etc. (annually)		263 days	Mon 05.10.15	Wed 05.10.16	
	8.4.3 Open innovation events (information events) with presentations, expert tarks, etc. (annually)		1 day	Mon 05.10.15	Mon 05.10.15	
	8.4.3 Open innovation events (information events) with presentations, expert talks, etc. (annually) 2		1 day	Wed 05.10.16	Wed 05.10.16	A
	8.4.4 Organize KosiCT Innovation Hackathon on an annual basis (focus on specific platform (e.g. mo		265 days	Mon 26.10.15	Fri 28.10.16	
0	8.4.4 Organize KosiCT Innovation Hackathon on an annual basis (rocus on specific platform (e.g. mo 8.4.4 Organize KosiCT Innovation Hackathon on an annual basis (focus on specific platform (e.g. mob		5 days	Mon 26.10.15	Fri 30.10.15	
-	8.4.4 Organize KosiC I innovation Hackathon on an annual basis (focus on specific platform (e.g. mob 8.4.4 Organize KosiCT Innovation Hackathon on an annual basis (focus on specific platform (e.g. mob		5 days	Mon 26.10.15 Mon 24.10.16	Fri 28.10.16	
			0000000000			
	8.5 Introduce IT innovation and R&D program 8.5.1 Elaborate concept for the IT innovation and R&D program including procedures, selection criteria, fina		327 days?	Thu 01.10.15 Thu 01.10.15	Fri 30.12.16	
			22 days	Wed 02.12.15	Fri 02.12.16	
0	8.5.2 Conduct information events on the IT innovation and R&D program (at least 3 information even		263 days?	Wed 02.12.15 Wed 02.12.15	Wed 02.12.15	
	8.5.2 Conduct information events on the IT innovation and R&D program (at least 3 information events		1 day	Mon 02.05.16		
	8.5.2 Conduct information events on the IT innovation and R&D program (at least 3 information events		1 day?		Mon 02.05.16	
	8.5.2 Conduct 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	
	8.5.3 Implement the IT innovation and R&D program		251 days	Fri 15.01.16	Fri 30.12.16	
1	8.6 Establish Competence Centers for applied R&D in strategic IT topics		393 days	Wed 01.07.15	Fri 30.12.16	
	8.6.1 Develop proposal for the Competence Centers for applied R&D in strategic IT topics (business plan)	1	44 days	Wed 01.07.15	Mon 31.08.15	
	8.6.2 Define research focus / topics for the Competence Centers		44 days	Tue 01.09.15	Fri 30.10.15	
1	8.6.3 Establish and manage the Competence Centers for applied R&D including Living Labs	2	305 days	Mon 02.11.15	Fri 30.12.16	
	8.6.4 Organize international linkage to similar research institutions to ensure exchange of experience and te	2	348 days	Wed 02.09.15	Fri 30.12.16	
	8.7 Establish vendor roundtables	2	416 days	Wed 01.04.15	Wed 02.11.16	
	8.7.1 Develop concept for vendor roundtables including selection of participants and IT topics	2	5 days	Wed 01.04.15	Tue 07.04.15	C STIKK;Budget[1.000 C]
0	8.7.2 Conduct vendor roundtables	2	378 days	Mon 25.05.15	Wed 02.11.16	IIII
	8.7.2 Conduct vendor roundtables 1	2	1 day	Mon 25.05.15	Mon 25.05.15	
2	8.7.2 Conduct vendor roundtables 2		1 day	Wed 25.05.16	Wed 25.05.16	
3 111	8.7.2 Conduct vendor roundtables 3		1 day	Wed 02.11.16	Wed 02.11.16	I STIKK;Budget[750 €]



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:



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 Education, 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

ContactsCustom List

Announcements

- 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:

	Development of the Kossov IT Strategy > 2 - Implementation 2 - Implementation		
View All Site Content	New Upbad Actions Settings		View: All Documents *
Documents	Type Name	Modified	Modified By
 1 - Strategy Development 	Strategic Filar 1 IT Promotion Falloy	9/5/2014 7:33 PM	ven Zalinger, Lucas
 2 - Implementation 	Strategic Pilar 2 Company Excellence and Quality	9/5/2014 7:33 PM	von Zalinger, Lucas
 Strategic Pilar 1 	Strategic Pilar 3 Export Promotion	9/5/2014 7:34 PM	von Zalinger, Lucas
Lists	Strategic Pilar 4 Domestic Market Development	9/5/2014 7:34 PM	von Zalinger, Lucas
Calendar	Strategic Pilar 5 IT Education	9/5/2014 7:35 PM	von Zalinger, Lucas
 Tasks 	Strategic Pilar 6 IT Clusters and Collaboration	9/5/2014 7:35 PM	ven Zalinger, Lucas
Discussions	Stratepic Mar 7 Entrepreneurship	9/5/2014 7:36 PM	ven Zalinger, Lucas
• Module D	Stratepic Pilar 8 Innovation and Applied Research and Development.	9/5/2014 7:37 PM	ven Zalinger, Lucas
 Module 1 Module 2 Module 3 Module 4 Module 5 Hodule 6 	Statepic Pilar 9 Investment Promotion	9/5/2014 7/37 PM	ven Zalinger, Lucar
Stes			
People and Groups			
📱 Recycle Bin			

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 Education 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 stakeholder.
	 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 combine a series of methods 	yearsOutcomes & 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
Garden de la re sund Re Forcast	industry
Image: Provide and	 Quantitative and qualitative data on company size, sales, exports, domestic market, technology profile, vertical specialization, HR, forecasts, etc.
	"Early warning system" for the IT industry
Inter of Dot Inter of Dot<	 Can be used for monitoring and evaluating the effectiveness of our Kosovo IT Strategy
Set of states Set of	
$s \equiv \frac{1}{\sqrt{N-1}} \sum_{i=1}^{N} \left(s_i - \overline{s} \right)^2 \qquad \text{urife for the average deviation from the mean.}$	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.

Literature and Sources

Arora, A./ Drev, M./ Forman, C. (2009): Economic and Business Dimensions: The Extent of Globalization of Software Innovation. Communications of the ACM, Vol. 52, Iss. 2, pp. 20-22.

ASEAN (2011): ASEAN ICT Masterplan 2015.

Balabanis, G./ Spyropoulou, S. (2007): Matching Modes of Export Strategy Development to Different Environmental Conditions. British Journal of Management, Vol. 18, Iss. 1, pp. 45-62.

Bayerisches Staatsministerium für Wirtschaft, Infrastruktur, Verkehr und Technologie (2013): Digital Bavaria. Strategie für die digitale Zukunft Bayerns.

Bulgarian Association of Software Companies (BASSCOM): http://www.basscom.org.

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung (2006): Evaluierungskriterien für die deutsche bilaterale EZ. Eine Orientierung für Evaluierungen des BMZ und der Durchführungsorganisationen. Bonn.

Bundesverband Informationswirtschaft Telekommunikation und Neue Medien (BITKOM): http://www.bitkom.org.

Capgemini (2013): World Quality Report 2013-2014.

Capgemini (2014): Digital Transformation Review No. 6. (August 2014).

Capgemini (2014): Industry 4.0. Sharpening the Picture beyond the Hype.

Capgemini (2014): Studie IT-Trends 2014.

Capgemini (2014): TechnoVision 2014. Technology Building Blocks for Digital Transformation.

Capgemini (2014): The Internet of Things: Are Organizations Ready for a Multi-Trillion Dollar Prize?

Capgemini (2014): World Quality Report 2014-2015.

Capgemini Consulting (2013): Agile Methodologies. Enlarge The Available Skill-Set.

Capgemini Consulting (2013): Assessment Report: Analysis of the Kosovo IT Industry.

Capgemini Consulting (2013): The Digital Talent Gap. Developing Skills for Today's Digital Organizations.

Carnegie Mellon University – Software Engineering Institute: http://www.sei.cmu.edu/cmmi.

Chan, K./ Mauborgne, R. (2005): Blue Ocean Strategy. How to Create Uncontested Market Space and Make the Competition Irrelevant. Boston, Massachusetts: Harvard Business School Press.

Cusumano, M.A. (2006): Envisioning the Future of India's Software Services Business. Communications of the ACM, Vol. 49, Iss. 10, pp. 15-17.

De Chernatony, L./ McDonald, M. (2003): Creating Powerful Brands in Consumer, Service and Industrial Markets. Oxford: Elsevier.

Deutsche Gesellschaft für Internationale Zusammenarbeit (Ed) (2011), Manual for IT Sector Promotion in Developing and Emerging Countries.

Deutsche Gesellschaft für Internationale Zusammenarbeit (Ed) (2011), Toolbox for IT Sector Promotion in Developing and Emerging Countries.

Direktion für Entwicklung und Zusammenarbeit, DEZA (1999): Schlüsselfragen und Indikatoren. Bern: Selbstverlag.

Esser, K./ Hillebrand, W./ Messner, D./ Meyer-Stamer, J. (1994): Systemische Wettbewerbsfähigkeit. International Wettbewerbsfähigkeit der Unternehmen und Anforderungen an die Politik. Berlin: Deutsches Institut für Entwicklungspolitik (DIE).

Estonian Association of Information Technology and Telecommunications: http://www.itl.ee.

European Commission (2004): Project Cycle Management Guidelines. http://ec.europa.eu/europeaid

European Commission (2014): eGovernment Benchmark. Insight Report.

European Information Technology Observatory (EITO): http://www.eito.com.

European Information Technology Observatory, EITO (2013): ICT Market Report 2013.

European Information Technology Observatory, EITO (2014): ICT Market Report 2014/2015.

Evangelou, C.E./ Karacapilidis, N. (2007): A Multidisciplinary Approach For Supporting Knowledge-Based Decision Making in Collaborative Settings. International Journal of Artificial Intelligence Tools, Vol. 16, Iss. 6, pp. 1069-1092.

Fraunhofer Institute for Systems and Innovation Research (2013): EU Software Cluster Benchmark 2013. Karlsruhe

Gartner (2014): Forecast Analysis: IT Outsourcing, Worldwide, 1Q14 Update.

Grant, R.M. (2008): Contemporary Strategy Analysis. Malden: Blackwell Publishing.

GULP: http://www.gulp.de.

Heeks, R./ Nicholson, B. (2004): Software Export Success Factors and Strategies in "Follower" Nations. Competition & Change, Vol. 8, Iss. 3, pp. 267-303.

Hubbard, D. (2009): The Failure of Risk Management: Why It's Broken and How to Fix It. Hoboken, New Jersey: John Wiley & Sons, Inc.

IKT Norge: http://ikt-norge.no

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

Infocomm Development Authority of Singapore (2010): Realising the iN2015 Vision. Singapore

International Data Corporation (IDC): http://www.idc.com.

Kosovo Agency for Statistics (2013): https://ask.rks-gov.net/eng/

Kosovo IT Strategy SharePoint: https://troomx.capgemini.com/sites/ccdach/itstrategykosovo/default.aspx?PageView=Shared.

Lithuanian ICT Association (INFOBALT): http://www.infobalt.lt.

Macedonian ICT Chamber of Commerce (MASIT): http://www.masit.org.mk.

McFarland, K. (2008): Should You Build Strategy Like You Build Software. MIT Sloan Management Review, Vol. 49, Iss. 3, pp. 69-74.

Ministry of Communication and Information Technology of the Republic of Egypt (2012): National ICT Strategy 2012-2017. Towards a Digital Society and Knowledge Based Economy. Cairo.

National Association of Software and Services Companies of India (NASSCOM): http://www.nasscom.org.

Nicholson, B./ Sahay, S. (2009): Software Exports Development in Costa Rica: Potential for Policy Reform. Information Technology for Development, Vol. 15, Iss. 1, pp. 4-16.

Ojala, A./ Tyrväinen, P. (2007): Market Entry and Priority of Small and Medium-Sized Enterprises in the Software Industry: An Empirical Analysis of Cultural Distance, Geographic Distance, and Market Size. Journal of International Marketing, Vol. 15, Iss. 3, pp. 123-149.

Organization for Economic Co-operation and Development (OECD): http://www.oecd.org/glossary.

Porter, M.E. (1980): Competitive Strategy. New York: Free Press.

Porter, M.E. (1986): Competition in Global Industries. Boston: Harvard Business School Press.

Porter, M.E. (1990): The Competitive Advantage of Nations. New York: Free Press.

Porter, M.E. (1996): What is strategy? Harvard Business Review, Vol. 74, Iss. 6, 61-78.

Porter, M.E. (1998): On Competition. Cambridge: Harvard Business School Press.

Prahalad, C.K./ Hamel, G. (1990): The Core Competence of the Corporation. Harvard Business Review, Vol. 68, Iss. 3, pp. 79-91.

Russian Software Cluster (RUSSOFT): http://www.russoft.org.

Saleh, N./ Carmel, E./ Mroczkowski, T. (2004): Becoming Software Exporters? The Cases of Three Central European Nations – Romania, Poland, and the Czech Republic. Journal of East-West Business, Vol. 10, Iss. 1, pp. 43-67.

Scheer, G. und L. von Zallinger (2006), *Cluster Management*, Deutsche Gesellschaft für Technische Zusammenarbeit (Ed).

Scrum.org (2011): The Scrum Guide. The Definite Guide to Scrum: The Rules of the Game.

Silicon.de: http://www.silicon.de.

STIKK (2012), Public Procurement for ICT in the Period June 2009 – June 2012. Prishtina.

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

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

Swiss Agency for Development and Co-operation (SDC):

http://www.deza.admin.ch/ressources/resource_en_23569.pdf

Terjesen, S./ O'Gorman, C./ Acs, Z.J. (2008): Intermediated mode of internationalization: new software ventures in Ireland and India. Entrepreneurship & Regional Development, Vol. 20, Iss. 1, pp. 89-109.

The German Outsourcing Association (2013): The Outsourcing Journal Q 2/3. Central & Eastern Europe. A Colorful Outsourcing Landscape.

United Nations Conference on Trade and Development (2013): Information Economy Report 2013. The Cloud Economy and Developing Countries. Geneva.

United Nations Conference on Trade and Development (2013): Information Economy Report 2012. The Software Industry and Developing Countries. Geneva

USAID (2007): IT Sector Development Concept Paper for Armenia. Yerevan.

Xu, L./ Brinkkemper, S. (2007): Concepts of product software. European Journal of Information Systems, Vol. 16, Iss. 5, pp. 531-541.

Appendix 1

IT Industry Capability Model

Capability Dimension	Capability Factors	Evaluation	Assessment Scale from 1 = poor to 10 = excellent											Weighting (w)	Capability value
			1	2	3	4	om 1 = po 5	6 6	7	8	9	10	value (a)	(total 100 points)	(a x w)
State Institutions	Strategy		-	2	3	-	,	•		0	5	10	3		
	Institutions			2	5								2		
	Investment				3								3	11	24,75
	Support programmes		1		5								1		1
	Support programmes		1		<u> </u>			7 of assess	ment points	/ number (of canability	factors =	2,25		
CT Infrastructure	Energy supply			1				2 01 0330331	7	-	or cupublicy	Tuctors -	7		44
	Telecommunications								7				7	6	
	Internet									5	8		8		
	interiet							Σ of assess	ment points	/ number o	of capability	factors =	7,33		
emand	Export market			1			5						5		
	Domestic market				3								3	10	40
								Σ of assess	ment points	/ number o	of capability	factors =	4		
tructural characteristics of the industry	Number of companies				3								3		
, , , , , , , , , , , , , , , , , , ,	Average size of companies			1	3			1	1	1		1	3		
	Structure					4		1					4		
	Wages							e	5				6	11	47,67
	Organization level and associations									8	8		8	3	
	Cluster			2									2		
								∑ of assessi	ment points	/ number o	of capability	factors =	4,33		1
ompany capabilities	Management skills							e					6		72
	Export skills & references			2									2	2 16	
	Technology skills							e	5				6		
	Quality management, processes and standards					4							4		
								∑ of assessi	ment points	/ number o	of capability	factors =	4,5		
Academia & support institutions	Education and human resources					4							4		48
	Continuous education & training						5	5					5	5	
	Research & development			2									2	16	
	Capital & financing		1										1	ī	
								∑ of assessi	ment points	/ number of	of capability	factors =	3		
nternational linkage & branding	Image & branding			2									2	2 8 2 5	50,6
	Offshore / nearshore factors (geography, language,														
	culture)									8	в		8		
	Intellectual property (IP)			2									2		
	Linkages & networks						5	5					5		
	Diaspora							e	5				6		
								∑ of assessi	ment points	/ number of	of capability	factors =	4,6		
novation	Institutional framework for innovation		1										1	<u> </u>	8,33
	Public sector based research & innovation		1										1		
	Private sector led research & innovation				3								3		
								∑ of assessi	ment points	/ number o	of capability	factors =	1,67		
ynamic capabilities	Detection (monitoring, scanning, scouting)					4							4	4 4 4 3 11	
	Strategic response development					4							4		41,25
	Joint learning & capacity building					4							4		41,25
	Change management & implementation				3								3		