

Questionnaire for preparation of the national background report

This questionnaire aims at producing an inventory of research structures, current and future R&D priorities, and policies for cooperation between Western Balkan Countries in the field of R&D in the domain of ICT. Please use data of the closest year available.

Theme: Information and Communication Technology (ICT)

I Country name: [Kosovo](#)¹

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Section A: Main R&D resources in the field of ICT

In this section, please provide data necessary for identification of main actors.

A 1. List of institutions / organisations: main RESEARCH PERFORMERS in the PUBLIC sector in the S&T field of ICT (such as national universities, government laboratories, institutes etc.):

	Name	Postal address	Web-site
1.	University of Prishtina, Faculty of Electrical and Computer Engineering	Bregu i diellit, p.n., 10000, Prishtina	http://web.uni-pr.edu/?cid=1,98
2.	University of Prishtina, Faculty of Mathematical and Natural Sciences	Mother Teresa st., p.n 10000, Prishtina	http://web.uni-pr.edu/?cid=1,89
3.	University of Prishtina, Faculty of Economics	Mother Teresa st, p.n 10000, Prishtina	http://web.uni-pr.edu/?cid=1,95
4.	University of Prishtina, Faculty of Applied Sciences for Business	Mother Teresa st., p.n 30000, Peja	http://web.uni-pr.edu/?cid=1,106
5.	University of Prishtina, Faculty of Technical Applied Sciences in Mitrovica	Parku Industrial „Trepça”, p.n, 40000, Mitrovica	http://web.uni-pr.edu/?cid=1,107
6.	University of Prishtina, Faculty of	Agim Ramadani st., p.n	http://web.uni-pr.edu/?cid=1,105

¹ Under UNSCR 1244

Education	10000, Prishtina
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A 2. List of institutions / organisations: main RESEARCH PERFORMERS in the PRIVATE sector in the S&T field of ICT (such as national universities, government laboratories, institutes etc.):

	Name	Postal address	Web-site
1.	American University in Kosovo	Qarku i Germse, 10000, Prishtina	http://www.aukonline.org
2.	AAB – Riinvest College	Zona industriale – Prishtina- Fushe Kosove, 10000, Prishtina	http://www.aabriinvest.net
3.	FAMA College	Gustav Mayer st. No.7, 10000, Prishtina	http://www.universitetifama.eu
4.	UBT College	Lagjeja “Kalabria”, p.n., 10000, Prishtina	http://www.ubt-uni.net

A 3. Which organisations are responsible for financing R&D in the field of ICT?

	Name	Web-site	Financing R&D– Year 2008: Total amount in national currency	Financing R&D– Year 2008: Total amount in EUR
1.	Ministry of Education, Science and Technology	http://www.masht-gov.net/advCms/		
2.	Ministry of Public Administration	http://www.ks-gov.net/mshp/		
3.	Ministry of Transport and Post -Telecommunication	http://www.mtpt.org/		
4.	Kosovo-Austria Institutional Partnership in the field of Higher Education and Research (KAIP)	http://www.aei-austria-kosovo.com/		12,225
5.	WUS Austria	http://www.wus-austria.org		
TOTAL::				

A 4. How is research performed? (Please indicate all that apply)

	Lead participating body (please use numbers from question A 3)	Other relevant bodies (please use numbers from question A 3)
In own institutions		
Published calls for tenders, open to all researchers		4,5
Restricted tenders to preferred suppliers		
Co-funding with other national bodies		
Co-funding with other countries		4
Other approaches – please fill in: _____		
Other approaches – please fill in: _____		
Is support restricted to national bodies (Y / N)		

A 5. R&D capacity* in S&T field:

	1990	2002	2008	2015
Total number of research organizations	2	3	10	
Of which universities	1	1	1	
Of which public research organizations	2	3	6	
Of which private research organizations	0	0	4	
Number of PhD students graduated			1	
Total number of R&D personnel			114	
Percentage of women in the total number of R&D personnel			6.14%	
Total number of employees on a Full-Time-Equivalent (FTE) basis			76	
Total number of researchers			74	
Percentage of women in the total number of researchers			5.4%	
Total number of researchers on a FTE basis			37	
Number of researchers with Ph.D. degree or higher	1	10	30	
Number of researchers with Ph.D. degree or higher on a FTE basis			17	
Number of researchers under the age of 35			36	
Number of researchers under the age of 35 on a FTE basis			21	

* Please use OECD - Frascati Manual definitions if possible.

A 6. Research infrastructure in S&T field of ICT:

(a) Please assess the physical research infrastructure (without office equipment)

The R&D institutions in general have an internationally competitive research infrastructure and are able to conduct top research in cutting-edge research topics	<input type="checkbox"/>
The R&D institutions in general have top research infrastructure, the infrastructure enables regular international research co-operation but are not competitive if compared with the 'best in this research field'	<input type="checkbox"/>
The R&D institutions in general have good quality research infrastructure, probably one of the most up-to-date in the country, but are not good enough to join in international research on a regular basis	<input type="checkbox"/>
The R&D institutions in general have a rather obsolete research infrastructure if compared with international organisations and this is an obstacle to international research co-operation	<input checked="" type="checkbox"/>
The R&D institutions in general have a rather obsolete research infrastructure and it is an obstacle to more domestic contracts	<input type="checkbox"/>
The R&D institutions in general have no substantial infrastructure, but they have access to it and can participate in top research both nationally and internationally	<input type="checkbox"/>

(b) Please indicate most important physical research infrastructure in S&T field of ICT:

<ol style="list-style-type: none"> 1. Laboratories of Faculty of Electrical And Computer Engineering, University of Prishtina 2. Post and Telecom of Kosovo optical ring 3. Telemedicine Center of Kosovo 4. Mechatronics laboratory at UBT Collage

A 7. Scientific production and Innovation in S&T field of ICT:

S&T field total (*)	2006	2007	2008
Number of important innovations **			
Number of domestic patents granted			
Number of patents granted by the EPO ***			
Number of patents granted by the USPTO ***			
Number of patents granted by the JPO ***			
Number of publications in journals reviewed by the Institute for Scientific Information****			6

**Important innovation: a new product / process / organisational mode / tool or method had or contributed to an additional turnover of more than EUR 100 thousand or more than 500 people use a new product/process or it saved life or improved the quality of life

substantially. The research institutions' contribution is substantial if at least one third of the new knowledge came from the research organisation.

*** EPO: European Patent Office; JPO: Japan Patent Office; USPTO: United States Patent and Trademark Office

**** and thus appears in the Science Citation Index

A 8. Large and/or National R&D projects in S&T field of ICT (Please provide a list of large national R&D projects in S&T field in annex of this report):

	ongoing /started in 2008	completed in 2008
Number of large R&D projects**		
Of which: the number of projects in collaboration with industry		
the number of projects in which the national organisation co-ordinates		
the number of EU FP projects in which national institutions participate		
the number of EU FP projects in which national institutions coordinate		
Number of national R&D projects***		
Of which: the number of projects in collaboration with industry		

** the total project budget is above EUR 100 thousand and the national institutions' share is at least EUR 20 thousand

*** projects funded in some proportion (10-100%) by the national agency / ministry

A 9. Source of financing of R&D activities in S&T field of ICT:

	Year 2008 – Share in %:
a) Private companies?	
b) International sources (such as the EU, UN, OECD, NATO etc.)?	
c) Not competitive* government financing?	
d) Competitive* government financing?	
e) Other sources (foundations, non-profit organisations, etc.)?	

*Projects won after competitive bidding procedures – so that the organisation can actually lose the funding targeted at the end of the procedure – count as source on a competitive basis. If the organisation participates in a money-allocation mechanism so that the money cannot be lost (but e.g. 'only' reduced), it counts as source on a non-competitive basis of research funding even if the procedure itself is called 'competitive bidding'.

Section B: Qualitative assessment of the S&T field

In this section please provide comprehensive description of the following issues:

B 1. Current situation, priorities and co-operation in S&T field:

B 1.1 Current situations:

a) What are the main national development policy priorities?

Main ICT related objectives of the Kosovo government in the mandate 2008-2011 are: stable economy and welfare; economic growth through investments, privatisation and restructuring of public organizations; integration into EU and NATO; cooperation with the countries of the region and others; completion of legislation in the field of ICT; provision of electronic services to citizens and businesses; acquiring membership into relevant international organizations for provision of qualitative telephone and internet services; improvement and widening of ICT infrastructure in public institutions; development and application of standards for hardware and software; consolidation of telecommunication services and operation; provision of universal services.

b) What are the main R&D priorities?

ICTs for eGovernment, ICTs for eLearning, Digital Content & Digital Libraries. ICTs for eHealth, ICTs for eBusiness, Internet & Broadband Technologies.

B 1.2 Future priorities:

**Describe how your future R&D priorities are selected and priorities agreed (e.g. foresight)?
Are these driven by national policy priorities?**

The R&D priorities in the field of ICT have been defined in course of development of the National Research Program for the period 2010-2015, a process led by the National Research Council mandated by the Kosovo Assembly. The process is expected to be completed by the end of 2009. One of the key criteria is relevance of each research priority to the development of the country.

a) Over the next 10 years, what will be the main R&D policy issues in this S&T field?

Internet & Broadband Technologies, Software Engineering, Security Technologies, Digital Content & Digital Libraries, Knowledge Technologies, Artificial Intelligence.

B 1.3 What national policy and R&D priorities should be the subject for establishment of specific co-operation with other Western Balkan Countries?

ICTs for Government and eGovernment, ICTs for Learning and eLearning, ICTs for Enterprises and eBusiness, ICTs for Health and eHealth, Internet & Broadband Technologies, Software Engineering, Security Technologies, Digital Content & Digital Libraries, Knowledge Technologies, Artificial Intelligence.

It is hoped that this exercise will identify areas for future collaboration and R&D co-operation in this S&T field, probably leading to a possible WBC R&D co-operation proposals under FP7. These projects foresee four levels of co-operation. They range from:

- a) The minimum – exchange of information and results;
- b) Systematic exchange and development of complementary programmes;
- c) Development of common approaches to agreed R&D priorities;
- d) The maximum – full joint approaches, common programmes and pooled funds with open access to researchers from participating countries.

So, with this in mind, what levels of co-operative actions would your country be able to support in the future in this S&T field?

Kosovo has not sign yet any bilateral agreement on ICT scientific research cooperation with other countries in the region. Nevertheless, University of Prishtina, is a member of European Association for Telematics Applications. In the first phase, Kosovo might be able to cooperate in the range of development of common approaches to agreed R & D priorities. After the initial phase, Kosovo would be able to participate in full joint approaches and common programmes.

B 1.5 A suggestion is to have a high level meeting once or twice a year; where WBC could decide upon themes on which to co-operate. This may lead to a proposal for a project or other forms of co-operation. Would your country be willing to participate in a high-level meeting with other WBC to decide upon these themes?

Yes, Kosovo will be willing to participate in high-level meetings with other WBC to decide upon ICT R&D themes of common regional interest.

Section C: Economic background of the S&T field

In this section please provide data necessary for identification of economic sub-sectors in relation with the S&T field

C 1. Performance of economy and sector(s) relevant for S&T field:

	2007		2008 (Projected)		2009 (Projected)		2010 (Projected)	
	GDP (million €)	(Sector GDP/ Total GDP) %	GDP (million €)	(Sector GDP/ Total GDP) %	GDP (million €)	(Sector GDP/ Total GDP) %	GDP (million €)	(Sector GDP/ Total GDP) %
National economy	3,433.6	100,00%	3,892	100,00%	4,078	100,00%	4,330	100,00%
IT sector	58.22	1.69%	63.98	1.64%	70.31	1.72%	77.27	1.78%
o Hardware segment	43.08	1.25%	47.34	1.21%	52.03	1.27%	57.18	1.32%
o Software segment	7.62	0.22%	8.38	0.21%	9.21	0.22%	10.12	0.23%
o IT services	7.51	0.21%	8.25	0.21%	9.07	0.22%	9.96	0.23%

Source: IDC Adriatics, January 2009,

[Retrieved from http://www.idc-adriatics.com/index.php?showproduct=34737&content_lang=ENG]

IDC, in its study, states that spending on IT hardware captured 74% of Kosovo's total IT market in 2007. The software segment was in second place, accounting for 13.1%, and IT services captured 12.9% of total IT spending in the country. In the above table, the same share of spending by particular IT segments (hardware, software, IT services) was assumed for years 2008, 2009, and 2010.

C 2. Economic sub-sectors relevant for S&T field:

Sub sector	(sub sector GDP/sector GDP) %	Investment (000 €) ²	Number of Personnel ³	Exports (000 €)	Imports (000 €)	Number of enterprises

C 3. Main export markets relevant for S&T field:

Market	% share	Main Countries
EU Market		
Other European Countries		
International Market (excluding Europe)		

C 4. Main export products / services relevant for S&T field:

Product / Service	Description

² Realised investments are physically realised construction of infrastructure and completed manufacture or purchase of investment goods during a year regardless of payment thereof; Cooperative and mixed ownership included; data relate to modernisation, building onto and extension of facilities

³ Employed persons in enterprises, institutions and organisations in all ownership sectors

Thank you very much for your effort!