

## 5.7 Research and Development Interests

The following table lists the areas of interest and the countries interested (in cases where there is information from more than one NREN per country, these have been combined). Note that one country can be in more than one category. A good glossary of the terms used is at: <http://whatis.techtarget.com>.

Legend - Table 5.7 Country Codes are the ISO codes:

<b>AL</b>	Albania	<b>DK</b>	Denmark	<b>IS</b>	Iceland	<b>PL</b>	Poland
<b>AM</b>	Armenia	<b>DZ</b>	Algeria	<b>IT</b>	Italy	<b>PT</b>	Portugal
<b>AT</b>	Austria	<b>EE</b>	Estonia	<b>JO</b>	Jordan	<b>RO</b>	Romania
<b>AZ</b>	Azerbaijan	<b>ES</b>	Spain	<b>KZ</b>	Kazakhstan	<b>RU</b>	Russian Federation
<b>BA</b>	Bosnia Herzegovina	<b>FI</b>	Finland	<b>LT</b>	Lithuania	<b>SE</b>	Sweden
<b>BE</b>	Belgium	<b>FR</b>	France	<b>LU</b>	Luxembourg	<b>SL</b>	Slovenia
<b>BG</b>	Bulgaria	<b>GE</b>	Georgia	<b>LV</b>	Latvia	<b>SK</b>	Slovak Republic
<b>BY</b>	Belarus	<b>GR</b>	Greece	<b>MA</b>	Morocco	<b>SY</b>	Syria
<b>CH</b>	Switzerland	<b>HR</b>	Croatia	<b>MD</b>	Moldova	<b>TR</b>	Turkey
<b>CY</b>	Cyprus	<b>HU</b>	Hungary	<b>MK</b>	FYR o Macedonia	<b>UA</b>	Ukraine
<b>CZ</b>	Czech Republic	<b>IE</b>	Ireland	<b>NL</b>	Netherlands	<b>UK</b>	United Kingdom
<b>DE</b>	Germany	<b>IL</b>	Israel	<b>NO</b>	Norway	<b>UZ</b>	Uzbekistan
						<b>YU</b>	Serbia & Montenegro

Table 5.7 Interest Areas

Infrastructure	Current	Essential Future	Potential Future Development	Will Follow Other NRENs	No Interest
<b>SDH</b>	DZ/CZ/FI/FR/MK/DE/HU/IS/IE/IL/LV/LT/LU/NO/SI/ES/TR/UZ/YU/RO/AZ/	DE/MA/AZ/KZ/	HR/EE/RU/UK/BA/BG/	AL/GE/MD/PS/	SE/
<b>Giga Ethernet</b>	BE/CY/CZ/DK/EE/FI/FR/ DE/GR/IS/IE/IL/IT/LV/ LT/MD/NL/NO/PL/RU/SK/ SI/ES/SE/CH/UZ/YU/	AL/DZ/HR/GE/DE/HU/IS/IT/LU/MA/NO/PL/PT/SK/ LV/RO/PS/AZ/	TR/UK/AZ/BA/BY/KZ/BG/		
<b>Lamda Testbed Access</b>	CZ/NL/PL/CH/UK/	DK/FR/DE/HU/PL/ES/	BE/EE/GR/IS/IE/IT/LT/ LU/MD/MA/NO/RU/SK/SI/ SE/TR/UZ/BA/RO/KZ/	AL/HR/FI/BG/	CY/GE/IL/AZ/BY/
<b>Lamda Service Deployment</b>	CZ/MK/NL/PL/CH/	FR/DE/HU/IE/PL/PT/SI/ ES/	AL/DZ/GR/HU/IS/IE/RU/ TR/UK/YU/BA/	AL/HR/FI/IT/BG/	GE/IL/AZ/BY/
<b>Wireless LAN</b>	AL/HR/CY/CZ/DK/FI/GE/ DE/IT/LV/LT/MD/NL/NO/ PL/SI/ES/SE/CH/UZ/RO/ BY/PS/KZ/AZ/BG/	BE/MK/DE/IL/LU/MA/NO/ PL/PT/AZ/LV/AZ/	AL/DZ/GR/HU/IS/IE/RU/TR/UK/YU/BA/	IT/	EE/
<b>Diffserv/QoS</b>	BE/CY/CZ/DK/FI/DE/GR/ LT/PL/RU/SI/ ES/CH/UK/ UZ/AZ/BY/	DZ/BE/HR/EE/FR/GE/DE/ HU/IT/MD/PL/PT/TR/YU/ LV/BG/	AL/IS/IL/MA/NO/SE/BA/ KZ/AZ/	IE/LU/PS/	
<b>MPLS Service Deployment</b>	BE/CZ/DK/FR/GR/HU/RU/	HR/CY/GE/IT/LT/PL/UK/ UZ/AZ/BA/KZ/	HR/CY/GE/IT/LT/PL/UK/ UZ/AZ/BA/KZ/	AL/IL/MD/SI/AZ/	FI/IS/IE/NO/SE/BY/
Middleware	Current	Essential Future	Potential Future Development	Will Follow Other NRENs	No Interest
<b>User Authentication</b>	DZ/HR/CZ/FI/GE/DE/GR/ HU/LV/LT/NL/RU/SI/ES/ CH/TR/UZ/YU/AZ/LV/BY/ PS/KZ/BG/	AL/CY/DK/DE/IE/IT/LU/ MA/NO/PL/SE/UK/	HR/EE/RU/UK/BA/BG/	PT/	BE/EE/IL/PL/
<b>In-house PKI Development/Deployment</b>	CZ/DE/GR /NL/PL/ES/SE/ CH/TR/UZ/	AL/DZ/HR/GE/DE/HU/IS/ IT/LU/MA/NO/PL/PT/SK/ LV/RO/PS/AZ/	DK/EE/HU/IE/LT/MA/NO/ YU/BA/RO/KZ/	AL/GE/PT/BY/PS/	BE/FI/IL/

In-house Certification Authority	CZ/DE/GR/LT/NL/RU/ES/ SE/CH/ TR/UZ/	HR/CY/EE/DE/IT/LV/PS/	AL/DZ/BE/DK/MK/HU/IS/ IE/LU/MA/ NO/YU/BA/RO/ KZ/	PT/SI/BG/	FI/GE/IL/PL/UK/BY/
Directory Services	HR/CZ/DE/GR/HU/LV/NL/ NO/PL/SI/ ES/SE/CH/TR/ YU/LV/KZ/	DZ/CY/DE/IT/LT/LU/MA/ NO/UZ/AZ/ PS/AZ/	AL/DK/FI/MK/IS/IE/PL/ RU/UK/ BA/RO/	GE/PT/BY/BG/	BE/EE/IL/
Caching/Indexing/ Mirroring	AL/HR/CZ/DK/EE/FI/GR/ IS/IE/IL/ IT/LT/MD/MA/ PL/RU/SI/ES/CH/TR/ UK/ YU/AZ/LV/RO/BY/PS/KZ/ AZ/BG/	CY/GE/IS/PL/PT/UZ/	HU/NO/BA/	MK/LU/	BE / NL / SE /
Multicast	BE/CZ/DK/FI/FR/DE/GR/ HU/IS/IL/ IT/LV/LT/NL/ NO/PL/RU/SK/SI/ES/ SE/ CH/TR/UK/RO/	AL/DZ/HR/CY/EE/DE/IS/ IE/MD/MA/ NO/PL/PT/SK/ UZ/YU/LV/PS/	LU/AZ/BA/BY/KZ/	MK/GE/BG/	AZ/
Mobile Access (persistence of presence)	DE/LV/NL/NO/PL/CH/	HR/CY/CZ/DK/MK/DE/IT/ NO/PT/SE/ UK/AZ/LV/PS/ AZ/	AL/DZ/BE/FI/HU/IS/IE/ LT/MD/PL/ ES/UZ/BA/BY/ BG	EE/MA/SI/YU/RO/KZ/	GR/IL/RU/TR/
Security	Current	Essential Future	Potential Future Development	Will Follow Other NRENs	No Interest
CERT Services	HR/DK/EE/FI/FR/DE/GR/ HU/IE/IL/ IT/LT/NL/NO/ PL/RU/SI/ES/SE/CH/ UK/ LV/	AL/DZ/CY/CZ/DE/LV/MD/ MA/NO/PL/ PT/AZ/BA/PS/ AZ/	BE/MK/GE/TR/UZ/YU/RO/ BY/KZ/	LU/BG/	
CERT Incident Co-ordination	BE/HR/DK/EE/FI/FR/DE/ GR/IS/IL/ IT/LT/NL/NO/ PL/RU/SI/ES/SE/CH/ UK/ LV/	AL/DZ/CY/CZ/DE/HU/IS/ MA/NO/PL/ PT/AZ/BA/PS/ AZ/	GE/MD/TR/UZ/BY/KZ/	MK/IE/LU/YU/BG/	RO/
Application Level	Current	Essential Future	Potential Future Development	Will Follow Other NRENs	No Interest
Teaching and Learning Methods	DZ/HR/FR/MK/DE/IL/LV/ LT/MD/MA/ PL/SK/SE/TR/ UZ/YU/AZ/LV/PS/KZ/ AZ/ SY/	AL/EE/GE/IS/LV/LU/PL/ PT/SK/BA/ RO/BG/	FI/GR/IE/IT/RU/	CY/HU/ES/	BE/DK/NL/NO/SI/UK/
Videoconferencing	DZ/BE/HR/CZ/DK/EE/FI/ FE/DE/ GR/HU/IE/IL/IT/ LT/NL/NO/PL/ RU/SK/SI/ ES/SE/CH/TR/UK/UZ/YU/ LV/BY/KZ/SY/	AL/CY/FR/MK/GE/DE/IS/ LV/LU/MD/ MA/NO/PL/PT/ SK/AZ/BA/RO/PS/ AZ/BG/	FI/GR/IE/IT/RU/		
Streaming Media	DZ/BE/HR/CZ/DK/EE/FI/ FR/DE/GR/ IE/IL/IT/LT/ NL/NO/PL/SK/SI/ES/ SE/ TR/UK/LV/KZ/SY/	MD/RU/YU/BA/RO/PS/AZ/	MK/GE/		
VoIP	CZ/FR/GR/HU/NL/NO/PL/ SK/SE/CH/ UK/BG/	HR/CY/DK/FR/IL/LV/LT/LU/MD/MA/ NO/PL/RU/SK/TR/YU/LV/AZ/	AL/DZ/BE/FI/GE/IS/IE/IT/PL/ES/ UZ/AZ/RO/PS/KZ/	MK/PT/SI/BA/	
Management	Current	Essential Future	Potential Future Development	Will Follow Other NRENs	No Interest
Traffic Monitoring	AL/DZ/BE/HR/CY/CZ/DK/EE/FI/FR/ MK/GE/DE/GR/HU/IS/IE/IL/IT/LV/ LT/MD/MA/NL/NO/PL/RU/SK/SI/ES/ SE/CH/TR/UK/UZ/YU/AZ/LV/RO/BY/ PS/KZ/ BG/	AL/DE/IS/IT/LU/NO/PL/ PT/SK/UA/ BA/AZ/	NO/		
Charging/Billing Systems	DZ/BE/CZ/DK/FI/FR/DE/ IL/LV/SI/ CH/UA/UK/UZ/AZ/BY/KZ/	EE/MK/DE/HU/IT/LT/MD/ UA/RO/PS/ AZ/BG/	AL/GE/GR/IE/RU/ES/YU/	HR/CY/IT/MA/BA/	IS/LU/NL/NO/PL/PT/SE/TR/LV/
Web Server Content Management	AL/DZ/HR/GR/IE/LV/MD/MA/NL/ES/ CH/TR/UZ/YU/AZ/LV/PS/KZ/	AL/EE/MK/GE/IL/LT/UA/BA/AZ/BG/	HU/NO/PL/RU/	CY/IT/LU/PT/SI/SE/	BE/DK/FI/IS/UK/RO/
Web Server Usage Analysis	AL/DZ/HR/GR/IE/LV/LT/MD/MA/NL/ NO/SI/TR/UZ/AZ/LV/PS/KZ/BG/	AL/DK/MK/GE/IL/BA/AZ/	EE/FI/HU/IT/NO/PL/RU/YU/	CY/LU/PT/ES/SE/	BE/IS/UK/RO/
Information Content Indexing	DZ/GR/IE/LV/MA/NL/SI/ES/SE/TR/ UZ/AZ/PS/KZ/	AL/GE/IL/MD/BA/BG/	EE/FI/HU/IT/NO/PL/RU/YU/	CY/LU/PT/ES/SE/	BE/IS/UK/RO/
Disaster Preparedness	BE/DK/FR/HU/NL/TR/UK/AZ/LV/PS/ KZ/	FI/IE/IL/LV/LU/MD/MA/NO/RU/SI/ ES/UZ/BA/BG/	AL/DZ/HR/GR/SE/AZ/	AL/CY/MK/GE/IT/PT/	EE/IS/PL/RO/
Performance Emergency Response Teams	DK/IT/NL/CH/AZ/KZ/	DZ/CY/HU/IE/IL/IT/MD/MA/RU/SI/ ES/BA/PS/AZ/ BG/	AL/BE/GR/LV/NO/TR/UK/YU/RO/	HR/EE/FI/MK/GE/LU/PL/PT/	IS/