

Mapping the quality broadband services in Europe

ITU-EC Regional Conference for Europe in Partnership with UKE "Broadband Services and Infrastructure Mapping"

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Radisson Blu Centrum Hotel Grzybowska 24 - 00-132 Warsaw Warsaw, Poland

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President Juncker'

A connected Digital Single Market

litical Guidelines

"...break down <u>national silos</u> in telecoms regulation, in copyright and data protection legislation, in the management of radio waves and in the application of competition law

DIGITAL ECONOMY

**** European Commission

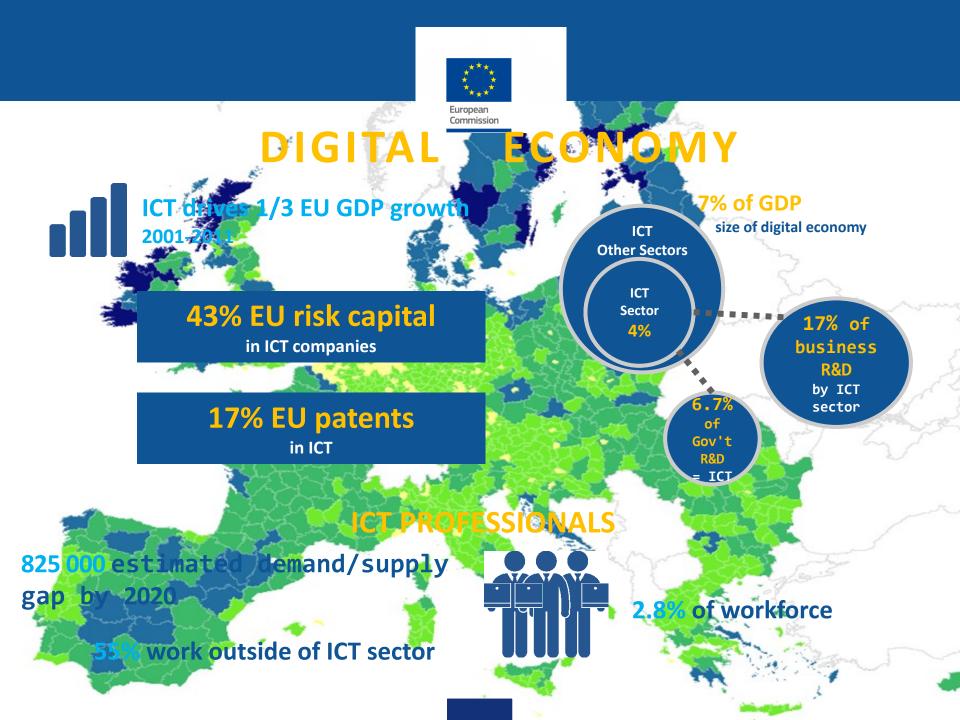
75% of EU citizens use internet regularly

158 million stops on used B oadband

134 mobile subscriptions per 100 people

GITAL BUSINESSES

2 in 3 EU entreprises provide mobile devices for business use 36% of EU entreprises use Social Media 2753 million EUR turnover of EU B2C eCommerce (2012) 15% of EU SMEs sell online 28% of EU entreprises use e-Invoices





EU Initiatives in support

2015

Single Market

Better access for consumers and businesses to digital goods and services across Europe





Adoption of a **Priority ICT Standards Plan** and extending the European Interoperability Framework for public services Initiatives on data
 ownership, free flow
 of data (e.g. between
 cloud providers) and
 on a European Cloud

New e-Government Action Plan including an initiative on the 'Once-Only' principle and on mandatory interconnection of business registers



EU platform mapping quality of service; Aims & benefits

Assist the **development and implement on of EU (cy and EU regulation** in the field of electronic color in cations)

- Monitoring of progress towards broadband coverage objectives for 2020 and beyond;
- **Aide Canning of investments** in high-speed internet infrastructure, EU funds (EFSI) ESIF, CEF) and with other national and regional/local funds;
- **Strengthen competition** by increasing transparency in the broadband market;
- Facilitate the emergence of trans-European investment initiatives from a variety of investors (telecom, utilities, equipment manufacturers, construction sector, public authorities, user cooperatives, etc.);
- **Inform consumers** about **headline and actual speeds** thereby stimulating demand for services and competition among suppliers;
- Reduce investment costs by facilitating a higher re-use of existing passive infrastructures (avoid duplication of works, prevent damages);
 Facilitate the realisation of smart grids.



ce/experience"

3 Definitions of "Quality

	The EU-Broadband mapping project collects data on different Quality of Service (QoS) definitions	A Internet A	Internet Access Provider (IAP)	Customer End User
	What: technical ability of existing infrastructure			t t
QoS-1: Theoretical	Where: Between core network of the Internet Access Provider (IAP) and Network Termination Point (NTP). How: Assessment / calculation by providers Example: SMART 2013/0054 project by IHS			
QoS-2: Practice	What: Line qualification / testing Where: Between reference points / interfaces of Internet Access Service (IAS) - from Internet Exchange Point (IXP) to Network Termination Point (NTP)		QoS-1	ren de la
optimal	 How: Measurement by providers or initiatives Panel measurements through probes Example: SamKnows, RIPE Atlas, Initiative Netzqualität (by German NRA) 	Qos	5-2	
QoS-3: Practice experience d	What: Actual user's experience Where: QoS measurement initiated by end user, How: Measurements via online speed tests Examples: Ookla, Akamai, Opensignal			



Eurostat NUTS3 socio conomic, demographic, geographic and CT data

- Scele-economic: e c disposable income per HH (pp) employment status, educational attainment,
- Demographic: total fertility rate, ageing structure etc.
- Geographical: Population density per square Km, urban, intermediate, rural topology, etc.
 ICT use/skills: e-skills, Internet skills; use of internet/a computer; etc.



Mapping broad and services: wards an EU integrated platform

The Broad mapping project (SI 2014/0016) will

- ageing the measurements of connectivity of quality of service (QoS) and quality of experience (QoE) connectivity. (TUV Rheinland Consulting will develop this IT project until 2018) matched with socio-economic data.
- facilitate information exchange and benchmarking between Member States. The portal will be complementary to the mapping activities of EU MSs/regional and EEA (Ministries, NRAs, regional agencies, users and consumers organisations etc.) and will also gather private crowdsourcing data on QoS/QoE actions (those that are in line with the methodology).

Guided by a Technical Review Panel made up of representatives from various data providers and international experts. It includes representatives from MS (L.E.ER), from NRAs (AGCOM, ANCOM,UKE) and from BEREC Working Group on Network Neutrality (Ofcom, BNetzA).



Steering Group and

Technical Review Panel	Steering Committee		
Ofcom	DG CONNECT B5 Broadband		
BNetzA	DG CONNECT B2 Regulatory Coordination and Users		
UKE	DG CONNECT B4 Spectrum		
AGCOM	DG CONNECT R3 Support Systems and Tools		
ANCOM	DG CONNECT F4 European Semester and Knowledge Base		
IT Ministry (MISE/Infratel)	DG CONNECT E4 Experimental Platforms		
FR Ministry (Mission Très Haut Debit/Observatoire)	DG COMP C 4 State Aid		
IE Dept. Communications, Energy & Natural Resources	DG DIGIT C4 External Network Services		
EPSILON Italia srl/ GIS Aspects INSPIRE & SDI	EUROSTAT E4 Regional statistics and geographical information		
ITU (Interactive Transmission Maps)	JRC ISPRA Digital Earth and Reference Data/CORSA Action Leader - STA Unit (G05)		
Inria Paris-Rocquencourt (research centre)			
RIPE Atlas			
Netradar (Finland) (research centre)			
Test-Achats (Consumer Organisation Belgium)			
IETF/LMAP			





bical Review Panel



Mopping broadband services: inciples

- Aggregating existing data from fixed and mobile
- Open but preserving confidentiality:
 - public visualisation at NUTS-3 level;
 - internal data at the lowest level of granularity available (MoU)
- An all-purpose platform, a minimum set of common indicators serving public interests (policy, planning, regulation) as well as guide private investment to improve services.

GIS mapping benefits: also outside the IST/Telecom Sector, eg: GIS/Mapping of infrastructure/services are inspiring property developers, home purchases (effect on house prices), relocation of enterprises, affect foreign and local investment choices, etc.



Mopping broadband prvices: text steps

- > A 3 / Car project :
 - By the end of 2017, final and complete version of the platform,
 In 2018: maintenance.
- 6 & 7 June 2016 : 1st Stakeholder Consultation Workshop (Brussels) for MS Ministries, NRAs, International and other relevant projects,
- Project website <u>https://www.broadbandmapping.eu/</u>
- Follow us on twitter @broadband_eu

and www.broadband_europe.eu