

ITU Regional Workshop for Europe on "Mapping of Terrestrial Broadband Infrastructure and Services"

Office of Electronic Communications of Republic of Poland

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DG CONNECT B5: Investment in high capacity networks



2016 EC Communication "Connectivity for a Competitive Digital Single Market - Towards a European Gigabit Society"

EU broadband strategic objectives for 2025:

- 1. Gigabit connectivity for all main socio-economic drivers such as schools, transport hubs and main providers of public services as well as digitally intensive enterprises.
- 2. All urban areas and all **major terrestrial transport paths** to have uninterrupted **5G coverage**.
- 3. All European households, rural or urban, will have access to Internet connectivity offering a downlink of at least 100 Mbps, upgradable to Gigabit speed.

BROADBAND IN THE NEXT MFF:

OMERVIEW

CEF - DigitalConnectivity

€3 billion

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport / Energy
- Complementarity with ERDF-EARDF

European Agricultural & Rural Development Fund

- Access to broadband a precondition for modernCAP
- Address underinvestment in most rural, also less dense, areas
- Measures such as Smart
 Villages, Leader and local investments

European Regional and Development Fund

- Cabling solutions to and in buildings
- Measures to reduce the cost of deployment of VHC
- Measures to support the national/regional broadband strategy and regional/local BCOs

Digital Europe: Capacities & roll out

- High Performance Computing (HPC)
- 2. Artificial Intelligence (AI)
- 3. Cybersecurity
- 4. Advanced digital skills
- 5. Digital transformation and interoperability



- 1. Monitoring and benchmarking the achievements of the Digital Single Market objectives (Digital Economy and Society Index: DESI)
- 2. Developing MS Broadband plans (update by September 2019):
 - review progress of their National Broadband Plans and update them with a time horizon of 2025,
 - in line with the strategic objectives set in this Communication and the 5G
 Action Plan.
- 3. Programming, implementing and monitoring the impact of ESIF (ERDF and EAFRD);
 - ex-ante conditionality: Broadband Strategy (2014-2020)
 - enabling conditions: Broadband Plan (2021-2027)
- Aid CEF/Invest EU to build project pipeline on relevant areas;
- 1. Notification of State Aid measures to EC for the purpose to allow interventions in areas affected by market failure



ESIF 2021-2027: Enabling condition on broadband

A **national or regional broadband plan** is in place which includes:

- 1. An assessment of the **investment gap** that needs to be addressed to reach the EU Gigabit connectivity objectives , based on:
 - a recent mapping (1) of existing private and public infrastructure and quality of service using standard broadband mapping indicators
 - a consultation on planned investments
- 2. The justification of planned public intervention on the basis of sustainable investment models that:
 - o enhance, affordability and access to open, quality and future-proof infrastructure and services
 - o adjust the forms of **financial assistance** to the market failures identified
 - o allow for a complementary use of different forms of financing from EU, national or regional sources
- 3. Measures to support demand and use of Very High Capacity (VHC) networks, including actions to facilitate their roll-out, in particular through the effective implementation of the EU Broadband Cost-Reduction Directive (2)
- 4. Technical assistance mechanisms, including Broadband Competence Offices to reinforce the capacity of local stakeholders and advise project promoters
- 5. A monitoring mechanism based on standard broadband mapping indicators
- 1. In line with article 22 of the new European Electronic Communications Code].
- 2. Directive 2014/61/EU



Towards an EU integrated platform mapping broadband services in Europe

https://www.broadband-mapping.eu/

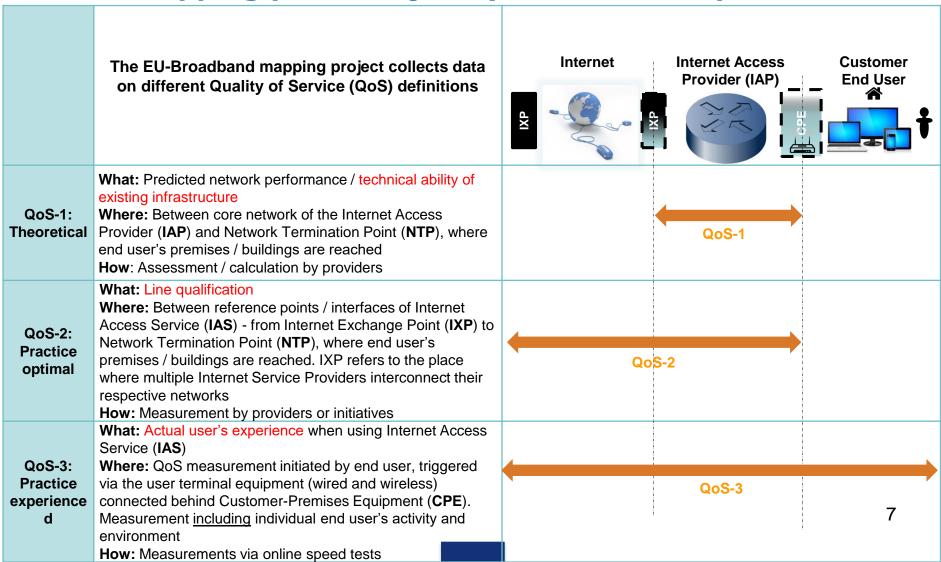
Main aims:

- aggregate measurements of connectivity of quality of service (QoS) and quality of experience (QoE) connectivity. (TUV Rhineland Consulting will develop this IT project until Sept 2019 – Next phase being planned).
- Facilitate information exchange and benchmarking between Member States. The portal will be complementary to the mapping activities of EUMS and EEA (Ministries, NRAs, regional agencies, users and consumers organisations etc.) and will also gather private crowdsourcing QoS/QoE actions.

A Technical Review Panel: made up of representatives from various data providers and international experts assists the European Commission. It includes representatives from MS, from NRAs and from BEREC Working Groups.



Eu mapping portal: "Quality of Service/experience"



NEW CODE for electronic communications: article 22: Geographical surveys

Main objective:

National regulatory and/or other competent authorities shall conduct a
geographical survey of the reach of electronic communications networks
capable of delivering broadband ('broadband networks') by 21 December 2023
and shall update it at least every three years thereafter.

Surveys will involve

- a survey of the current geographic reach of broadband networks:
- (may also include) a forecast on investments including information on planned deployments by any undertaking or public authority, of VHCN and significant upgrades or extensions of networks to at least 100 Mbps
- national regulatory authority shall decide the extent to which it is appropriate
 to rely on all or part of the information gathered in the context of such forecast.



NEW CODE for electronic communications article 22: Geographical surveys-2

National regulatory and/or other competent authorities:

- may designate and publish an area with clear territorial boundaries
 where no undertaking or public authority has deployed or is planning to
 deploy a very high capacity network or significantly upgrade or extend its
 network to a performance of at least 100 Mbps download speeds.
- **invite undertakings** and public authorities to declare their intention to deploy very high capacity networks or significantly upgrade or extend its network to a performance of at least 100 Mbps over the duration of the relevant forecast period.
- **inform any undertaking** or public authority expressing its interest whether the designated area is covered or likely to be covered
- shall supply those results subject to the receiving authority ensuring the same level of confidentiality and protection of business secrets as the originating authority

NEW CODE for electronic communications article 22: Geographical surveys-3

- For the application of state aid rules
- To assess the reliability of all or part of the information of investment forecast
- To **designate an area** where no undertaking or public authority has deployed or is planning to deploy a VHCN or significantly upgrade to at least 100 Mbps
- For the design of national broadband plans
- For the deployment of electronic communications networks by local, regional and national authorities with responsibility for the allocation of public funds
- For defining **coverage obligations** attached to rights of use for radio
- To make available information tools enabling end-users to support their choice of operator or service provider.
- In defining relevant (geographic) markets, NRAs shall, where relevant, also take into account the results of the geographical survey (market analysis)
- To impose appropriate universal service obligations and for verifying availability of services falling within the universal service obligations.



NEW CODE for electronic communications article 22: Geographical surveys- 4

Open issues at stake for the guidelines:

- 1) level of ambition/harmonisation possible differentiation depending on the task for which the data is required;
- **2) Type of data required**: QS1 (theoretical), QS2 (tests), QS3(crowdsourcing), and specification of technology, architecture/topology, medium,
- 3) Granularity/resolution of the data: address level, grids size, NUTs level
- **4) GIS representation of associated facilities:** GIS coordinates of network elements/associated facilities (cabinets, distribution points, antenna sites etc).
- 5) Publication and visualisation of the data: who has access to what
- **6) Confidentiality, level of aggregation, information** to other entities (users, PA, operators/investors)



NEW CODE for electronic communications article 22: Geographical surveys- 5

Timeline for the guidelines:

- Consultation workshop (NRAs, OCAs) 21/5/2019;
- A BEREC workshop with operators on the 5th of July
- Consultation workshop (NRAs, OCAs) by November/December 2019;
- Public consultation document by end of 2019;
- Consultation workshop (NRAs, OCAs) by May/June 2019;
- Final Draft guidelines to be approved by mid-2020.



Development of a methodology to map broadband coverage

- Carried out in parallel with the work of the BEREC EWG on Geographic Surveys
- Aims to discuss and agree concepts, definitions and a market consultation process that would be satisfy the execution of relevant EU policy and regulatory tasks.
- Expected to feed the EU requirements into the work of the BEREC Guidelines on Geographic Surveys of article 22.
- A technical Review panel including a few NRAs and MS authorities
- are currently helping to review the work

Timeline:

- First draft September 2019,
- Final methodology in September 2020
- followed by 12 months of testing phase (mid-end 2021)



End

Questions?