

Methodology of the European Commission's project "Mapping of Broadband Service in Europe"

ITU-EC Regional Conference, Warsaw 11th April

What is the project about?

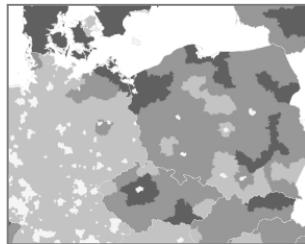
Development of interactive **online mapping platform and database**



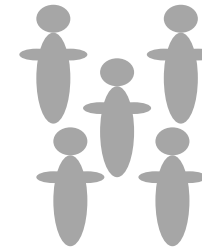
Quality of Service (QoS) and Quality of Experience (QoE) connectivity will be aggregated and visualized (fixed and mobile).



In the best case **76 national and 13 transnational initiatives** deliver data

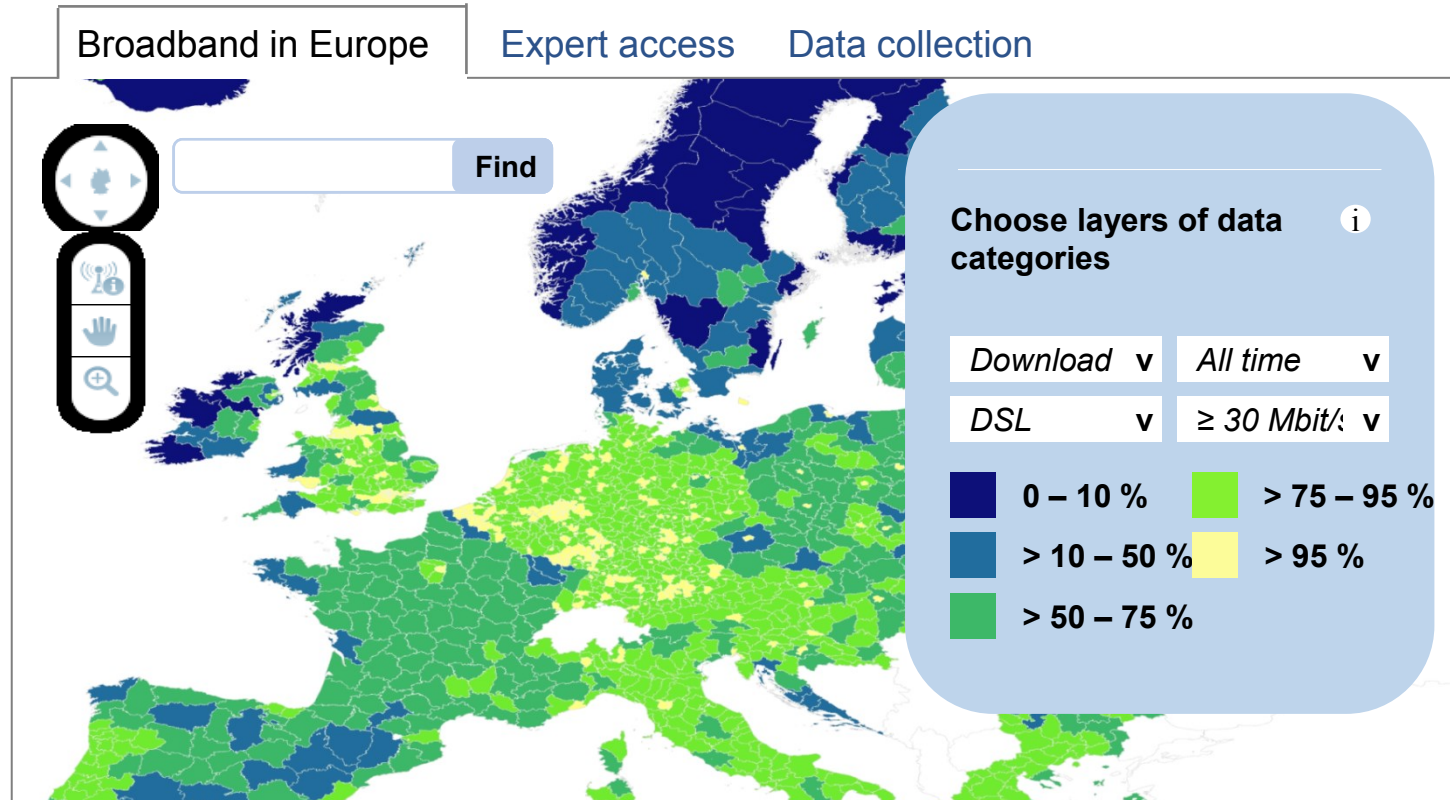


130 stakeholders are involved so far



What is the final result?

User-friendly interactive online Mapping Application



Public access

- ✓ Standard tools for map navigation
- ✓ Pop-ups for meta-information on datasets
- ✓ Link to socio-demographic data from Eurostat

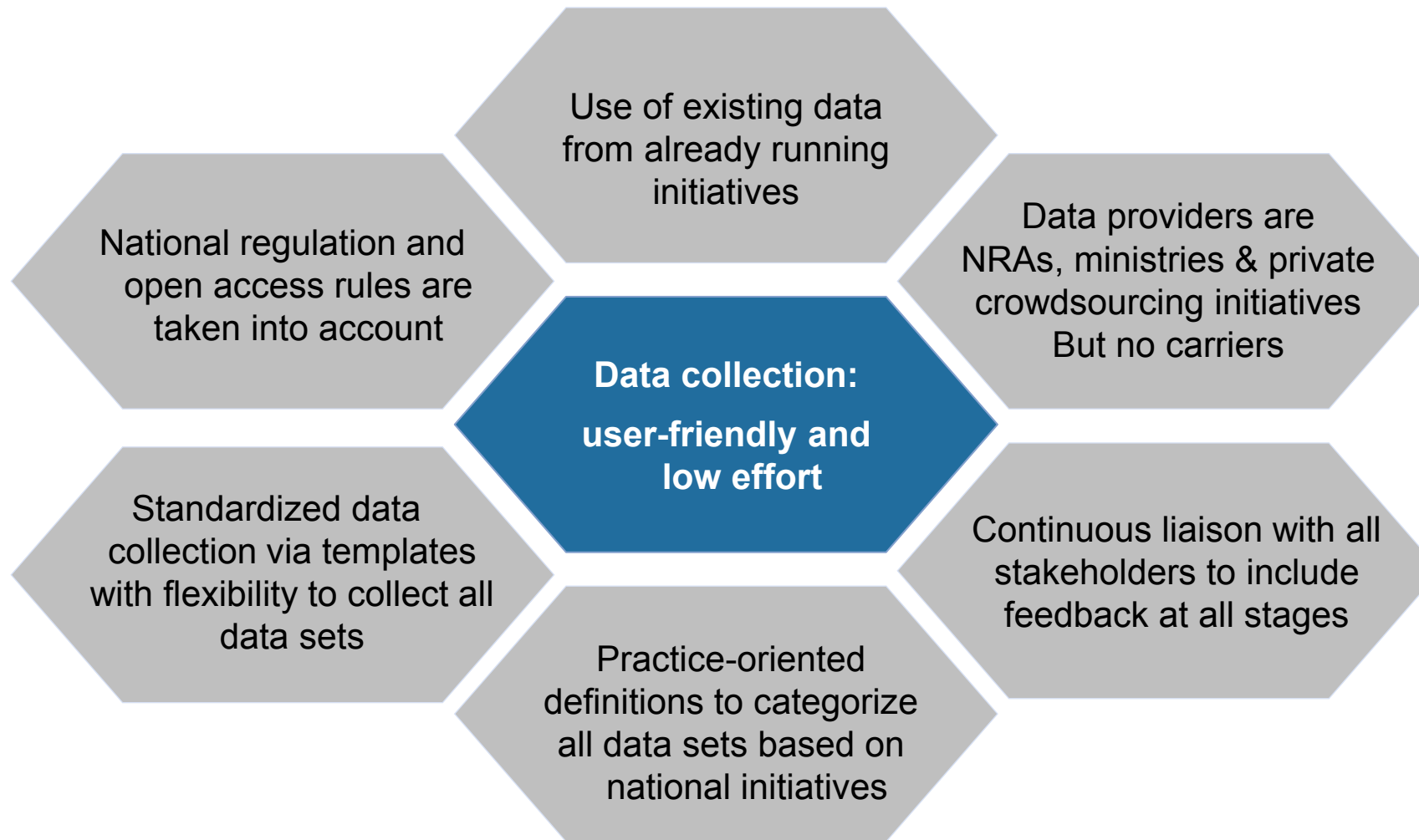
Expert access (restricted access)

- ✓ Display different layers & higher granularity to benchmark data categories
- ✓ Output of maps & reports, dynamic diagrams & tables with link to national GIS systems

Data collection

- ✓ Secure and user friendly upload via web-frontends
- ✓ Download of templates
- ✓ Briefing material, technical guidelines

What is our approach?

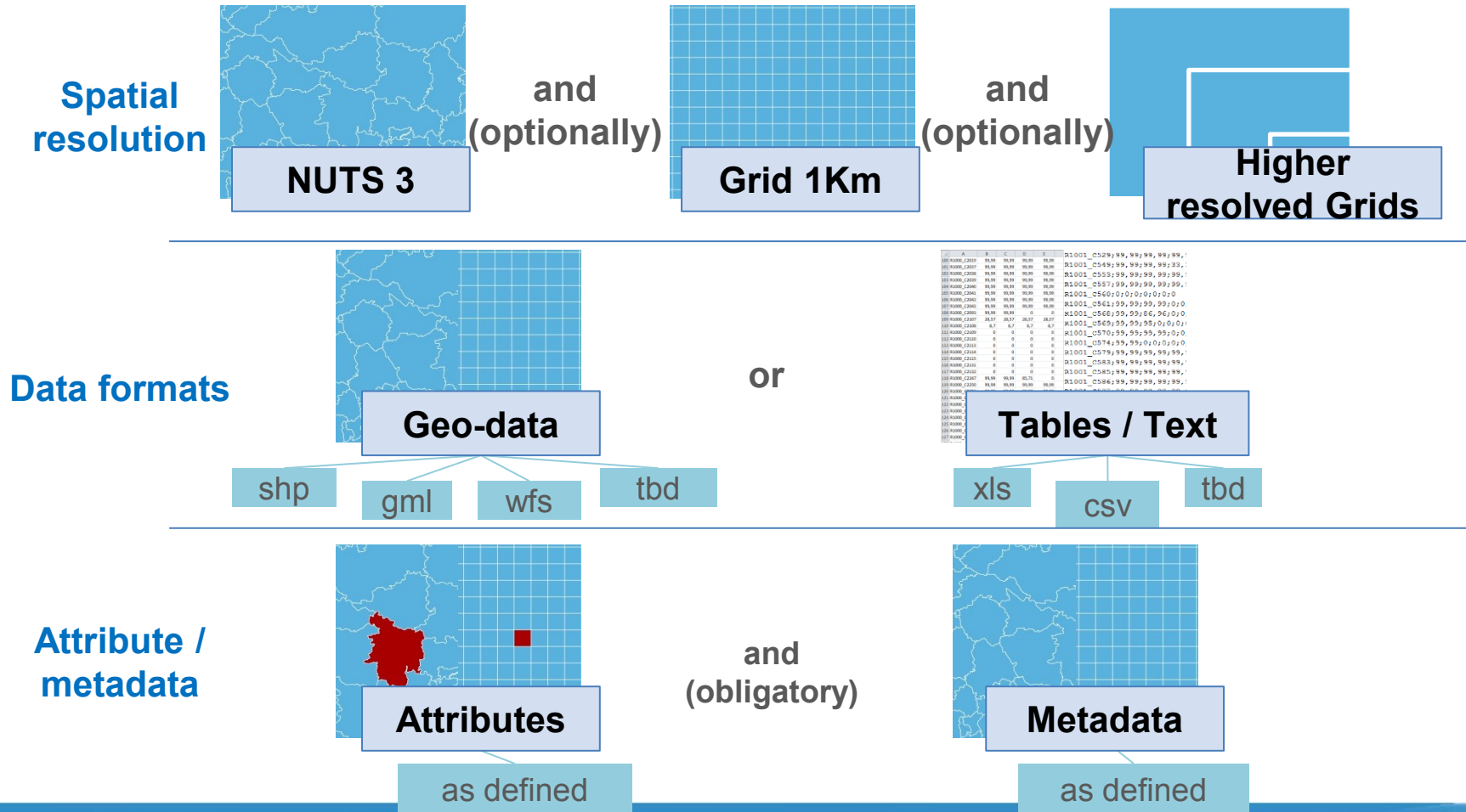


What are our data sets?

Definitions	Definitions have evolved from originally “QoS” and “QoE” to three practice-oriented categories	
QoS-1: Theoretical	What: Predicted network performance of existing infrastructure How: Assessment / calculation by providers. Example: Project by IHS Consultants (all EU national initiatives), collecting coverage data	
QoS-2: Practice optimal	What: Line qualification How: Measurement through panel probes or speed tests with filter to <u>exclude</u> end user’s environment Example: SamKnows, German NRA initiative	
QoS-3: Practice experienced	What: Actual user’s experience when using Internet Access Service (IAS) How: Measurement via online speed tests <u>including</u> end user environment Examples: Ookla, Akamai, Opensignal	

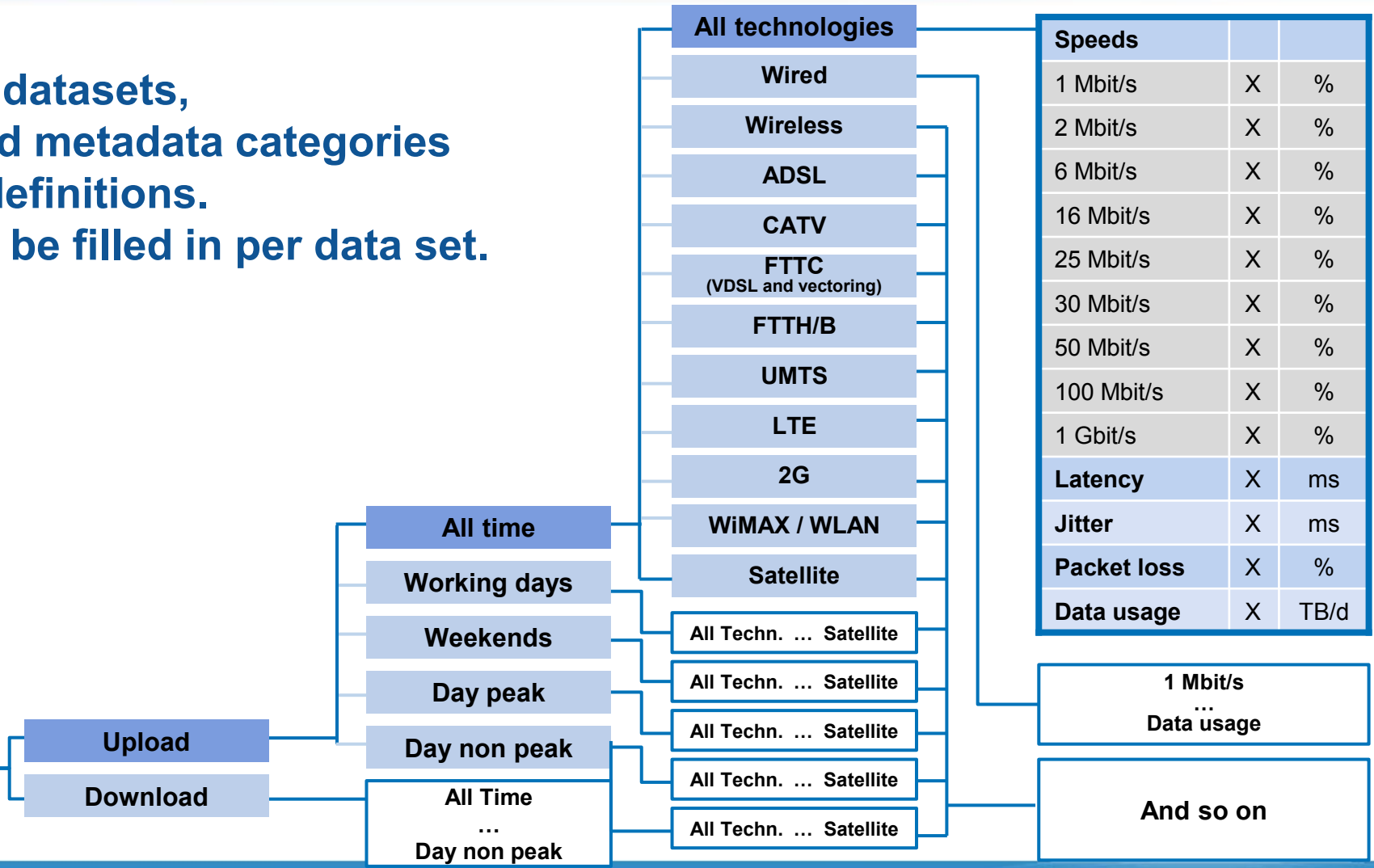
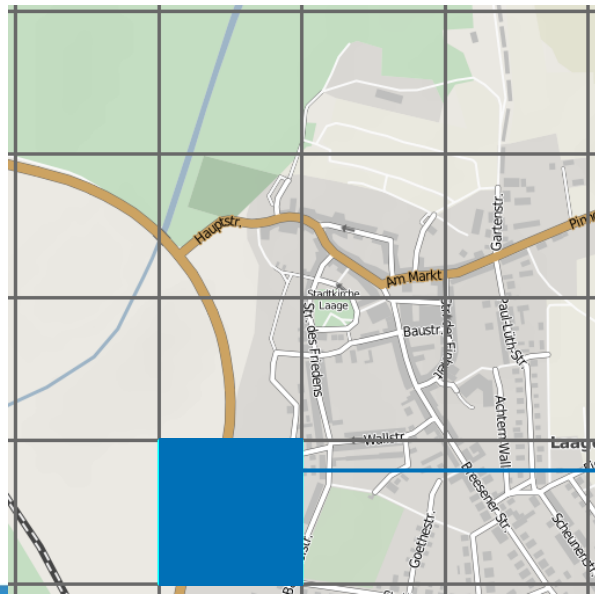
How will data be collected?

Flexible templates will be used to keep burden for data providers low



What data will be collected?

- To assure comparable datasets, the same attributes and metadata categories are collected for all 3 definitions.
- Up to 1,200 values can be filled in per data set.



What is the time line?

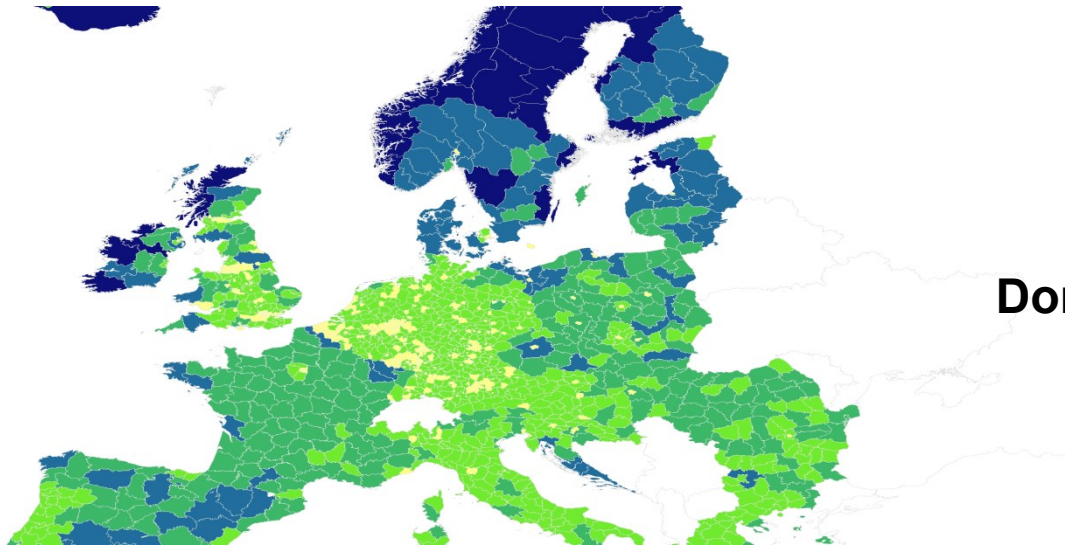
3-year project :

- In 2016 development of data base and design platform, consultation with data providers
- By end of 2017: final and complete version of the platform is online
- As of 2018: automated data collection process and data publication
- Process of BEREC's net neutrality working group is reflected in the project

Next steps:



Thank you for your attention!

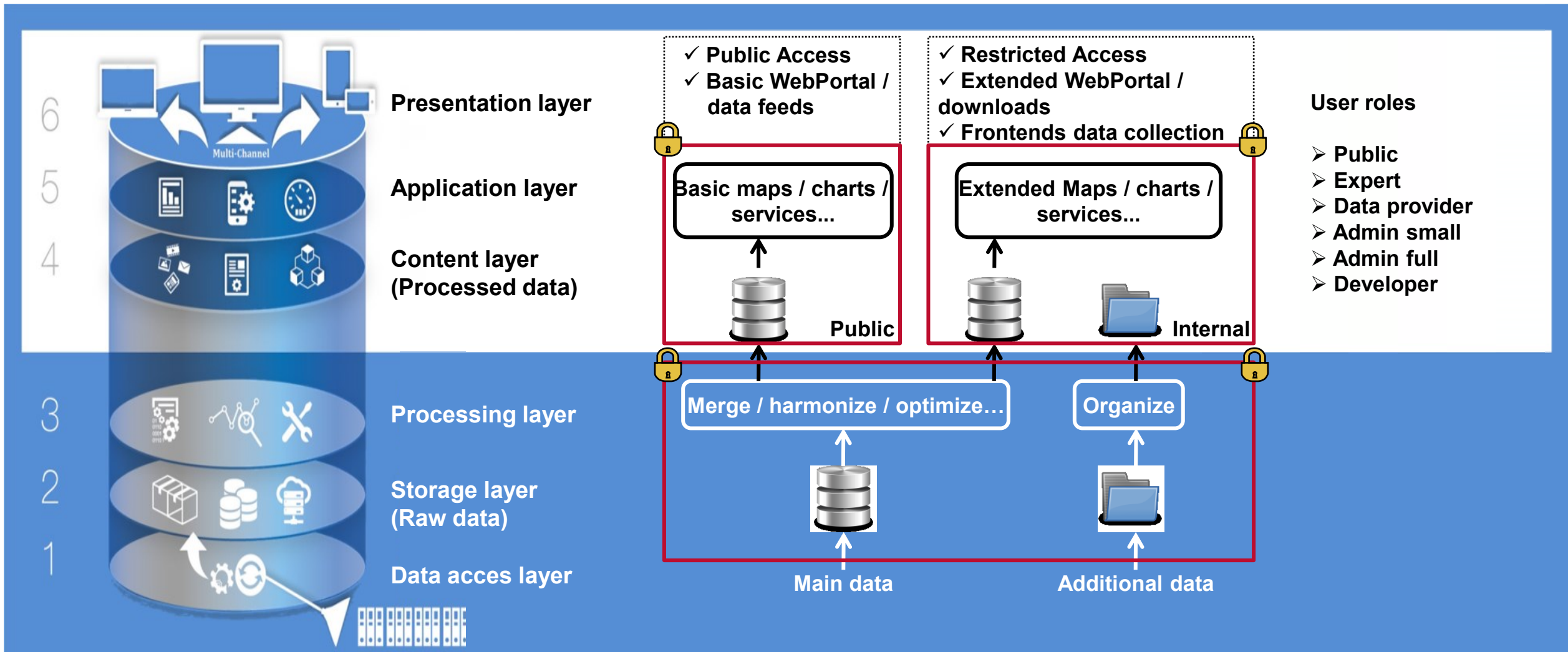


Don't hesitate to contact us for more information:

- Ms Christiane Lehmann / TÜV Rheinland
- Project website: <https://www.broadbandmapping.eu/>
- Email: broadband-mapping@de.tuv.com

Back up

Structure of application and data security infrastructure



Data safety – MoU respects national regulation

Memorandum of Understanding is individually adaptable...

- regarding spatial resolution of published data
- regarding the publication of internet service provider names
- regarding public or restricted access to data sets

XXXXX agrees to the publication of aggregated data at the following level of resolution (please select options):

	Data on <u>QoS</u> / <u>QoE</u>		Names of internet service providers	
	Public	Restricted	Public	Restricted
NUTS 3				
1km INSPIRE grid				
500m INSPIRE grid				
250m INSPIRE grid				
50m INSPIRE grid				
Other level [to be explicitly named]				



MAPPING OF BROADBAND SERVICES - DATA PROCESSING & PRIVACY AGREEMENT

Data Processing & Privacy Agreement regarding the project Mapping study (phase II): mapping of broadband services in Europe - SMART 2014/0016

This cooperation agreement is entered between the European Commission, DG Connect, and its project contractor TÜV Rheinland Consulting on the one hand and on the other hand with XXXXXX [name of institution/initiative].

The agreement is signed in the context of the European Commission's project Mapping study (phase II): mapping of broadband services in Europe - SMART 2014/0016.

1. Context

The European Commission is seeking to develop an IT tool to map broadband services in Europe. It will take the form of an integrated monitoring platform that will aggregate and benchmark assessed or measured broadband services around two dimensions: a) quality of service (QoS): data on marketed speeds gathered from existing national mapping initiatives of states' administrations or other relevant data sources, and b) quality of experience (QoE): data based on actual users' experiences including from crowdsourcing applications. This project will allow mapping broadband coverage and quality at EU, national and regional levels using GIS-based state-of-the-art applications. Additional information on the project is available in the [terms of reference](#) as well as at a project website <http://www.broadbandmapping.eu/>

TÜV Rheinland has been commissioned to develop and manage the integrated mapping application and collect datasets during the project timeframe 1 January 2016 until 31 December 2018.

Considering the projects and initiatives already carried out by XXXXXX regarding the collection and mapping of broadband quality of service and/or quality of experience data sets, the European Commission's project aims to create synergies between projects at European level and also to avoid duplication of work.

Given the project framework, on the basis of mutual trust and in the spirit of cooperation, the European Commission and its contractor TÜV Rheinland Consulting and XXXXXX decide to collaborate and hereby agree on the following:

Project status and next steps

Deliverables	Jan 2016	Feb 2016	March 2016	April 2016	May 2016	Jun 2016
Meetings	1st SC* and Inception Meeting	BEREC working group (10 Feb)	SC* & TRP** Meeting (1 March)	ITU conference (11 / 12 Apr) SC* Meeting (15 Apr)	SC* and TRP** Meeting	2nd Interim Meeting (week 25)
Reports			Inception Report			1st Progress Report
Update on design of platform	Methodology review (studies)	First Technical Concept	Development of platform design / IT architecture		Develop tools for standardised data collection	Alpha version of platform
Monthly data feeds		Evolution of practice-oriented definitions	Exchange with test data providers	Analysis test data sets (6 MS + 2 private providers)		Start Europe-wide data collection campaign
Stakeholder consultation	Identification of data providers, project introduction and review of existing initiatives				Update of project status	1st Stakeholder Consultation (7/8 June)
Migration into EC IT environment			Coordination initiated			

* SC – Steering Committee

**TRP – Technical Review Panel