

Focus on user requirements

Session 'Getting Ready for the Decade of Action'



Outline

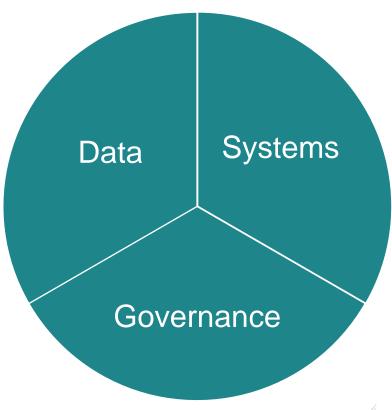
- 1. Collaboration
- 2. Statistics and GI applications are supporting European policy implementation and its monitoring
- 3. Main requirements for pan-European datasets



Geographical information management

- Management of the Geographical Information System of the European Commission (GISCO)
- Collection of core data sets
- Maps and visualisation services
- GI tools and infrastructure management
- Collaboration in the European
 Statistical System and international

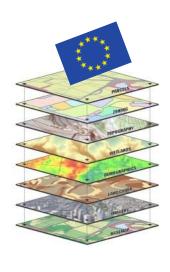






Goals

- Provide a consolidated and consistent overview of GI needs at the Commission and beyond
- Set out cross-cutting and domain specific requirements for having harmonised geospatial information EU wide
- Support to Sustainable Development Goals and to EU policies
- Obtain more and better quality data in collaboration with agencies of the Member States and other actors
- Support the integration of statistical and geospatial information

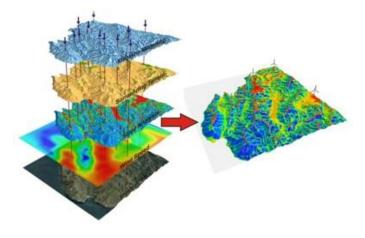




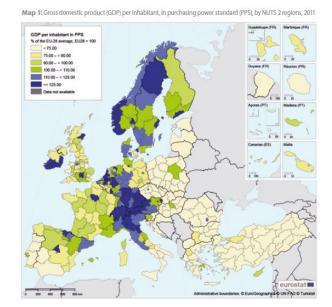
Localise – Analyse - Visualise



- Regions
- Population (grid)
- LUCAS data points
- Points of Interest



- Spatial analysis
- Accessibility analysis
- Publications
- Presentations



- Interactive visualisations
- Statistical Atlas
- IMAGE map making tool
- LUCAS viewer



Relation with EuroGeographics and NMCAs

- Long-standing collaboration
- Yearly GISCO working group on the integration of geographical and statistical information with NMCA and NSI representatives and EuroGeographics
- Purchase of EuroGeographics´ pan-European datasets and data dissemination inside of the EC
- EuroBoundaryMap as main information source for administrative and statistical units at Eurostat
- Definition of requirements



EuroBoundaryMap



Future cooperation

- Increasing data needs
- More open data
- Closer collaboration between NSIs and NMCAs
- Better alignment on requirements on geographical extent, thematic domains, time, quality, scale & resolution, licensing, governance & resources



International collaboration within UN GGIM and UNECE

- Long-standing collaboration
- Contribution to various Working Groups:
 - The UN-GGIM Expert Group on the Integration of Statistical and Geospatial Information
 - The UN-GGIM Inter-agency and Expert Group on the Sustainable Development Goal Indicators (IAEG-SDGS)
 - The UN-GGIM: Europe Working Group on Core Data
 - The UN-GGIM: Europe Working Group on Data Integration
- Joint definition of user requirements



Statistics and GI applications are supporting European policy implementation and its monitoring







Addressing EU priorities

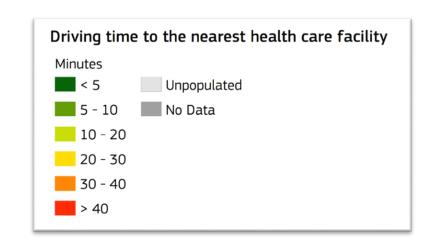
- The 6 European Commission's priorities
 - A European Green Deal
 - A Europe fit for the digital age
 - An economy that works for people
 - A stronger Europe in the world
 - Promoting our European way of life
 - A new push for European democracy

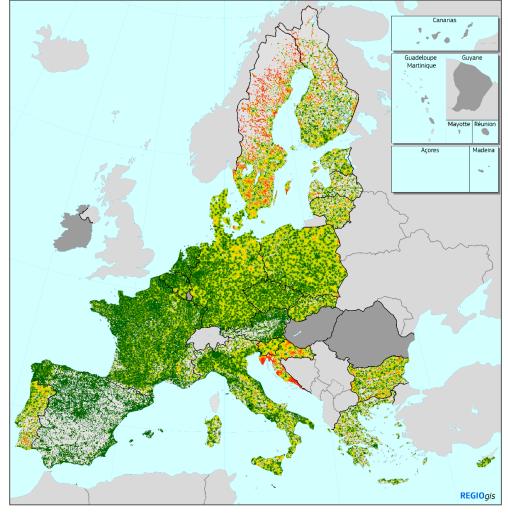




GI for accessibility (Eurostat – DG REGIO)

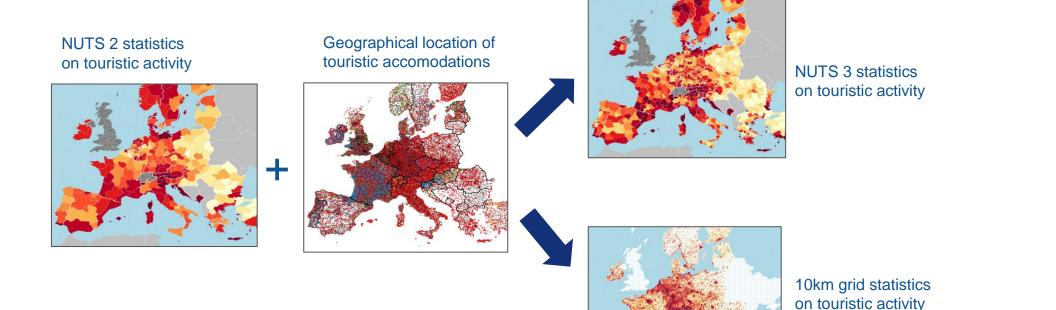
- Accessibility to health care and education services in Europe
- With GI on road transport, health care and education services and population





GI for tourism statistics (Eurostat)

- Disaggregation of tourism statistics, from regional to local and 1km grid level
- With GI on administrative units and touristic accommodation



GI for accessibility (DG REGIO)

- Accessibility to universities and passenger flights
- GI on road transport, airports, universities and population



https://ec.europa.eu/regional_policy/en/newsroom/news/2019/01/01-03-2019-access-to-universities-in-the-eu-a-regional-and-territorial-analysis

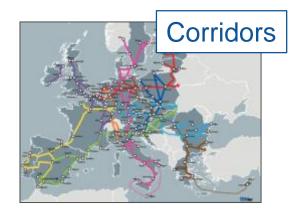


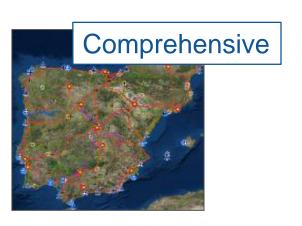
https://ec.europa.eu/regional_policy/sources/docgener/focus/2013_09_passenger.pdf



GI for transport (DG MOVE/ENER)

- Definition of Trans European Networks of Transport (TEN-T)
- GI on transport infrastructure: roads, railways, inland waterways, ports, airports, multimodal platforms
- 3 levels of generalisation: Corridors, CORE, comprehensive







User requirements

7 main requirements for pan-European core GI datasets

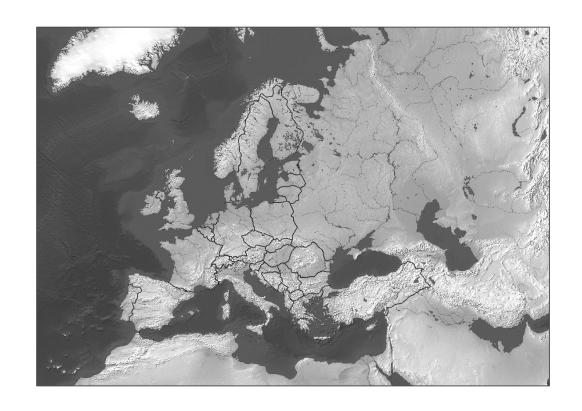


Geographical extent

Themes Gov & Res Q Lic

European coverage

- European Union
- + EFTA, candidate countries
- + Neighbour countries (EEA 39, etc.)
- + Oversea territories
- + Maritime space
- •





Thematic scope



- Ideally: Priority areas of the EC
- General purpose themes content of national topographic databases

Transport networks (road, rail, air, water, cable, telecom, energy, etc.), administrative units, geographical names, buildings, cadastral parcels, land cover, elevation, hydrography, addresses, postal codes, activity areas, energy production, regulation zones, etc.

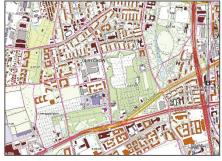
 Focus on existing data – UN-GGIM: Europe core data recommendation for content



BD-L-TC, ACT Luxembourg A



ATKIS-DLM, BKG Germany



BDOT 10k, GUGiK Poland



BDTopo, IGN France

Etc...

Time



- Need for up-to-date data:
 - With known reference date, as close as possible from the publication date
 - Updated as frequently as possible and necessary (depending on the theme and scale/resolution)
 - Continuous updates
- Dissemination of updates only VS entire new datasets (snapshots)
- Availability of historical data
- Sustainability of the data source (update calendar, versioning)



Quality



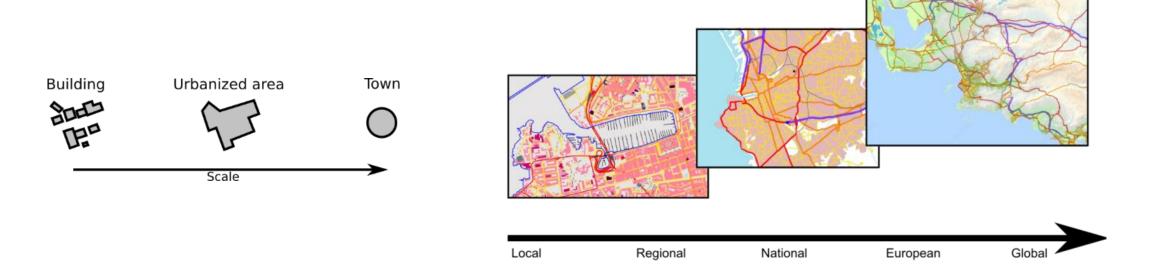
- Requirements for high-level quality
 - Completeness (omission/completion), positional accuracy, semantic accuracy, topological consistency, homogeneity for spatial comparability, etc.
- Ensure connection at borders (edge-matching)
- Enable cross-country comparability
- Sustainability of the data source reliability across time
- Quality must be known, and documented



Scale & resolution



Need for multi-scale data



- Need for detailed (1:10k) <u>and</u> generalised data (1:50k, 1:100k, 1:250)
- Possibilities for automated generalisation

Accessibility and licensing



- Who is allowed to use the data (raw & derived), for what purpose
 - Ideal: Open data
 - Minimum: EC internal use in priority, with possibility to disseminate analyses outcomes and derived data
- Extend Copernicus emergency service license agreement for broad EC internal use
- Open access within the European Statistical System (ESS): administrative units, addresses and buildings



Governance and resources



- Producing pan-European datasets is difficult and requires resources
- Need for sustainably maintained pan-European datasets
- Rely on existing country data:
 - NMCAs, ministries, governmental agencies, NGOs, private sector, OSM, etc.
- Importance of coordination among various stakeholders and existing resources at national and European level
- Importance of a progressive and AGILE methodology



Conclusions

- 1. Collaboration across boundaries is a mutual interest
- 2. Statistics and GI applications are efficiently supporting European policy implementation and help visualising trends and developments
- 3. Common user requirements for pan-European datasets
- 4. Importance of coordination (i.e. methodology, scope and timing)



Keep in touch



ec.europa.eu/eurostat



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Eurostat



@EurostatStatistics



Eurostat



Thank you.

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