

# Eurostat: Update on latest activities

9th Joint UN-GGIM: Europe - ESS - UNECE Meeting on the Integration of Statistical and Geospatial Information

3 October 2023, Belgrade





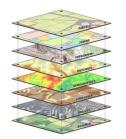
➢GISCO team – Role and main tasks

Recent and ongoing work

Activities planed for 2023 / 2024



#### GISCO team – Role and main tasks



Permanent service of the European Commission (Eurostat)

Provide reference geographical information and related services for use within Eurostat, the European Commission, and to the European citizens at large

✓ Infrastructure and tools, relevant geospatial data

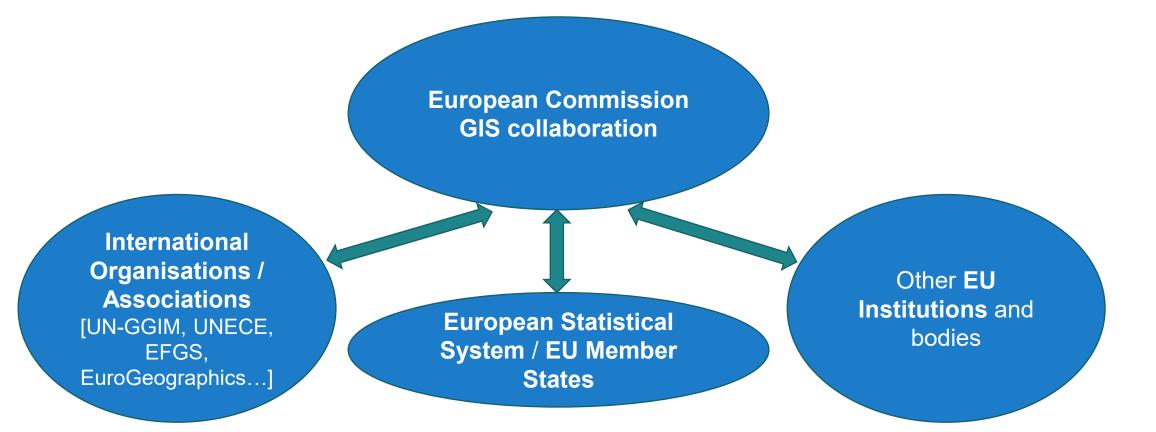
Answer the needs of the European Commission, Eurostat and – to some extent – of the Member States for geographical information at the level of the European Union, its Member States and regions

✓ Specialized resources, guidance and training, thematic mapping/data and spatial analysis

Contribute to, and coordinate, the work in the European Statistical System on the integration of statistical and geospatial information



#### GIS ecosystem / stakeholders





#### **Current main activities**

> Management of the **geographical reference database** of the European Commission

- Collection, validation and dissemination of geospatial data for use by EC and other EU Institutions / bodies
- Operation of the spatial data infrastructure of the European Commission (servers / cloud, map services, routing, geocoding, IMAGE, Statistical Atlas...)
- Coordinate mapping activities within the EU Institutions and provide guidelines for correct mapping (e.g. with trainings, support and advice)

> Data processing, mainly for **thematic mapping**, data dissemination and **spatial analysis** like:

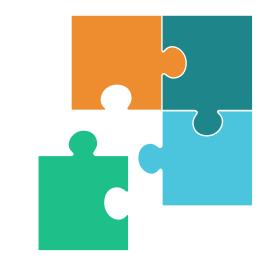
- ✓ How long does it take on average to drive to the closest hospital?
- ✓ How accessible are education facilities?
- ✓ What is the population density in specific areas?



## Recent and ongoing work (I)

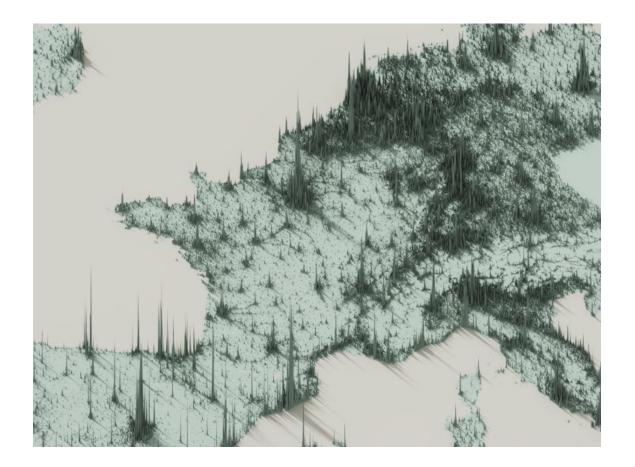
► CENSUS 2021 and grid data

- ✓ Update of the administrative / statistical units' boundaries
- ✓ Data validation and visualization
- ✓ Support dissemination of results
- Geospatial datasets
  - Process definition for 'experimental' data collections on education and health and its expanding to other topics / services
  - ✓ Develop spatial analysis based on needs of policy DGs / thematic units in ESTAT
  - Improve process when relevant for core datasets management (e.g. admin. / statistical units, addresses, postal codes, POI...)
- Implementing of NUTS 2024 based on new Regulation





#### Example: Support for CENSUS 2021



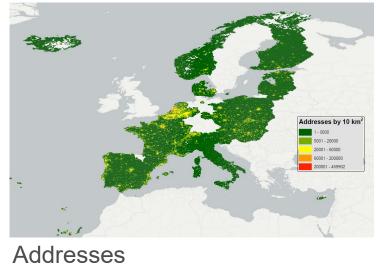
Population density, 2021

(number of inhabitants per 25 km<sup>2</sup>)





#### **Example: Pan European Datasets**

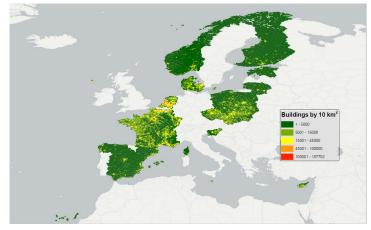




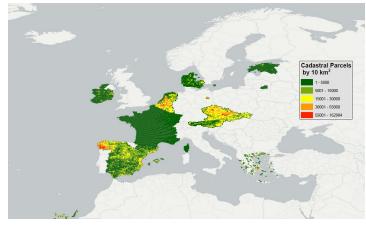
Utility services



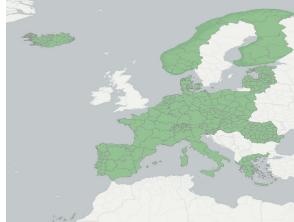
#### **Transport Networks**



**Building Units** 



Cadastral Parcels

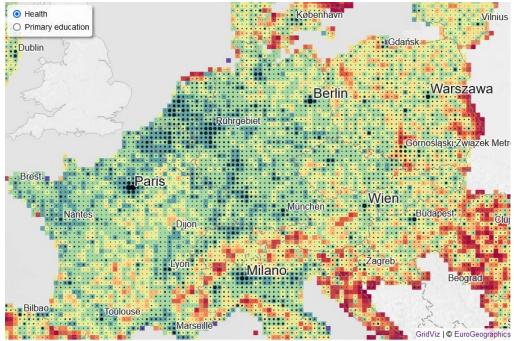


Administrative Units

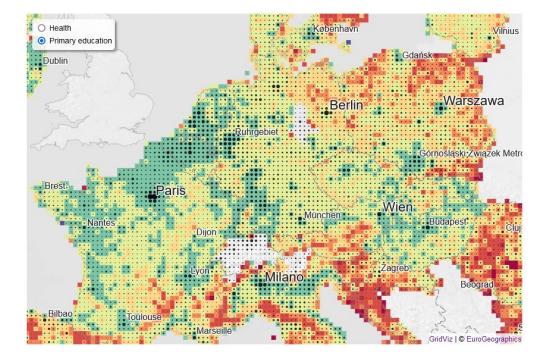
European

Commission

#### Spatial analysis: Healthcare / Education Accessibility (I)

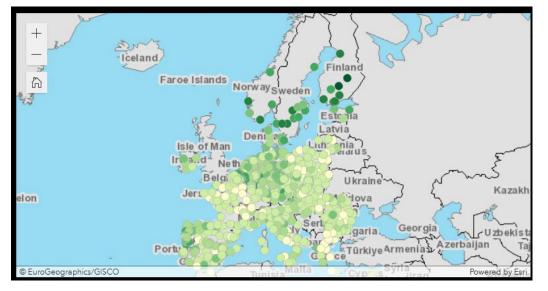


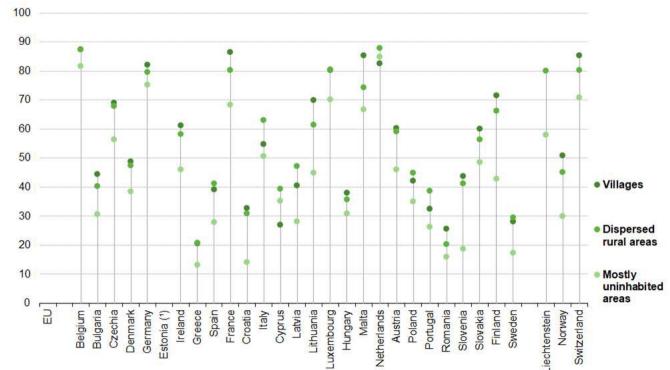
2,500,000 inhabitants





#### Spatial analysis: Healthcare / Education Accessibility (II)





**Urban Rural Publication** 

<u>Green Spaces (EEA)</u> Average of urban green space within 300m around educational facilities



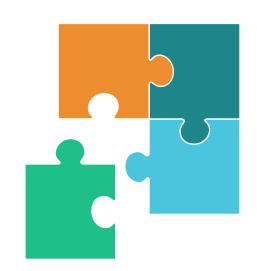
## Recent and ongoing work (II)

> Financial support: New series of **grants** to support Member States

Technical support

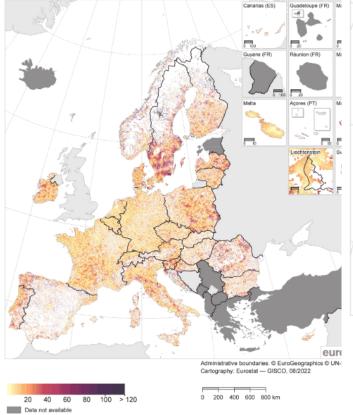
- ✓ Various dissemination-related activities (e.g. production of maps for the Eurostat Regional Yearbook and other publications)
- ✓ Update of mapping tools (IMAGE, Statistical Atlas), freely available for users
- ✓ Update of transport matrixes
- Earth Observation for statistics
  - ✓ Implementation of the <u>Warsaw Memorandum</u> and recommendations from the 48<sup>th</sup> Meeting of the European Statistical System Committee (February 2022)
- Follow-up of relevant legislation implementation

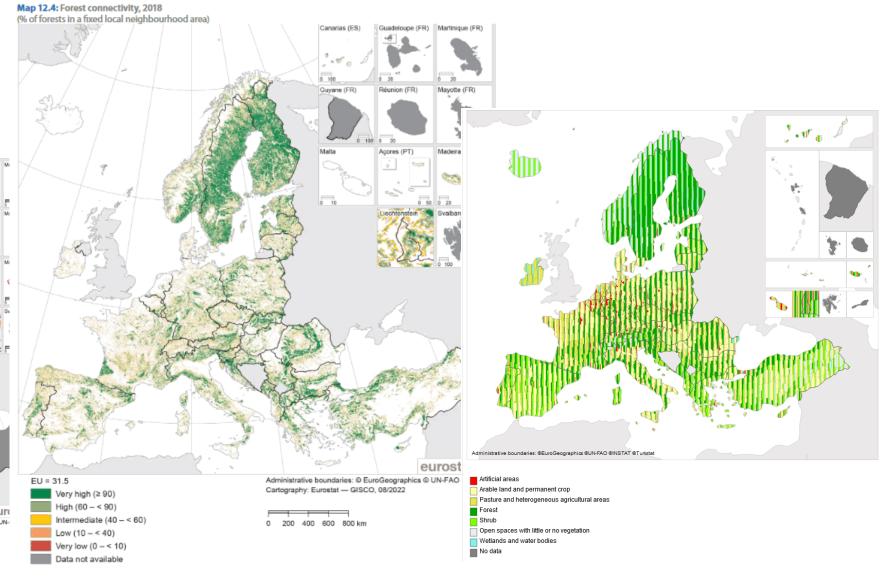




#### Example: Published maps

Map 2.3: Travel time to nearest hospital, 2020 (minutes, by 1 km<sup>2</sup> grid cells)

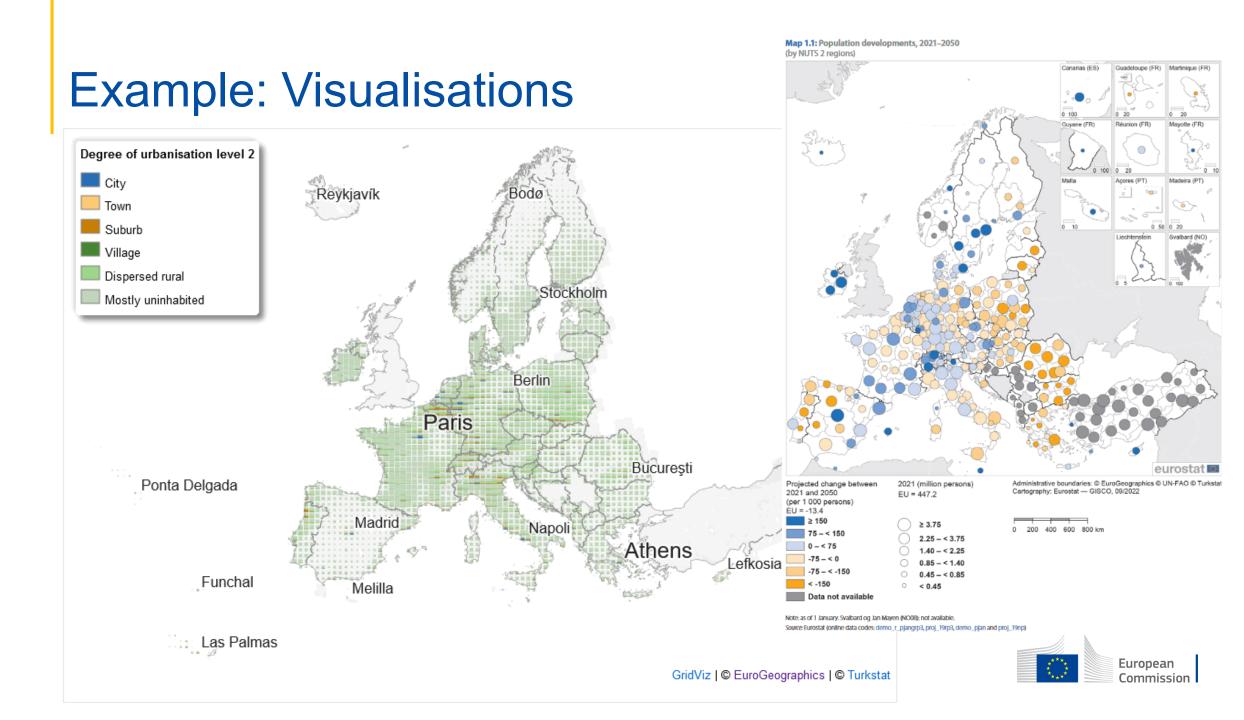


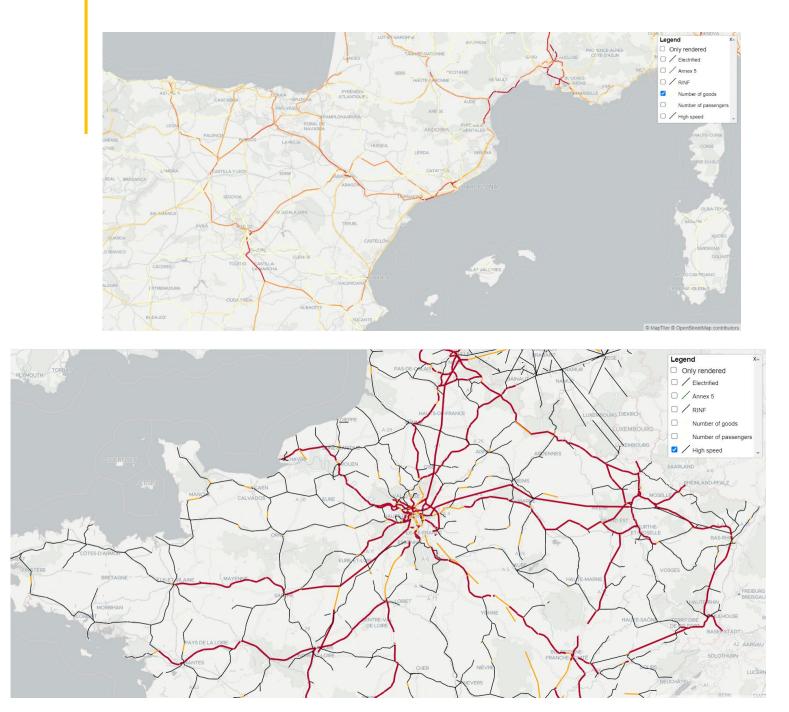


Note: the nearest hospital may be across a national border. Only populated grid cells are shown (white grid cells are uninhabited). Source:TomTom Multinet, 2020, Geostat population grid 2018, Eurostat-GBSCO hospital locations 2020

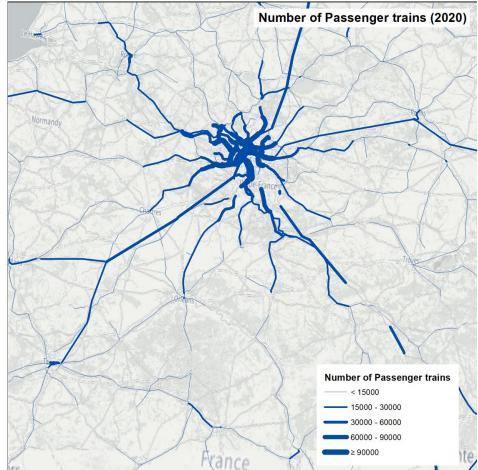
Note: forest area density (FAD) is defined as the proportion of all forest pixels within a fixed local neighbourhood area (529 hectares). Source Corine landcover (CLC), Joint Research Centre (JRC), European Commission







# Example: Railroad matrixes



#### Data sources used

> Topographic, cadastral, administrative division data from NMCAs and EuroGeographics

> National and EU geoportals and geo-catalogues, usually open and free data

Commercial and public open-source data

> Data from other organisations (e.g. EU agencies, UN...)

Statistical data from NSIs and Eurostat

Goal is to **improve / streamline** the processes



#### Activities planned for 2023 / 2024 – Cooperation

#### > UN-GGIM and UNGGIM: Europe

- ✓ Member of the Executive Committee
- ✓ Following and contributing to the work of its working groups (e.g. EG-ISGI, Line of work on Data Integration and on SDGs): webinar series
- ✓ Support to the organisation of the UNGGIM: Europe Plenary 22-23 November 2023, Brussels
- ✓ Regular exchanges at technical and management level
- EFGS European Forum for Geography and Statistics
  - ✓ Observer in its Steering Committee
  - ✓ Supporting the work of the EFGS including the EFGS conferences



Next meeting of the Expert Group Integrating statistical and geospatial information (known also as GISCO WG)

Save-the-date: 12-13 March 2024 in Luxembourg



## Thank you!

#### https://ec.europa.eu/eurostat/web/gisco



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