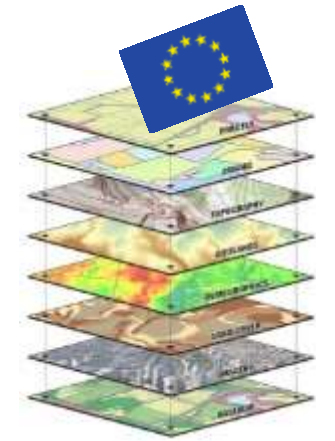# Creation of pan-European geospatial datasets –
Challenges and Opportunities

*Eurostat – E.4 – GISCO – H.I. Reuter*

GISCO – The Geographical Information System of the Commission

- Permanent service of the European Commission (Eurostat)

- Role: Answers needs of European Commission, Eurostat and the ESS for geographical information at EU/national/regional levels.

  - Provision of GIS (reference) data, services and software,

  - Support cartographic and spatial analysis activities,

  - Coordinates commission-wide GI activities,

  - Stimulate the use of GIS to support commission activities,

  - Support activities on the integration of statistical and geospatial information.

European Commission

Global Statistical Geospatial Framework
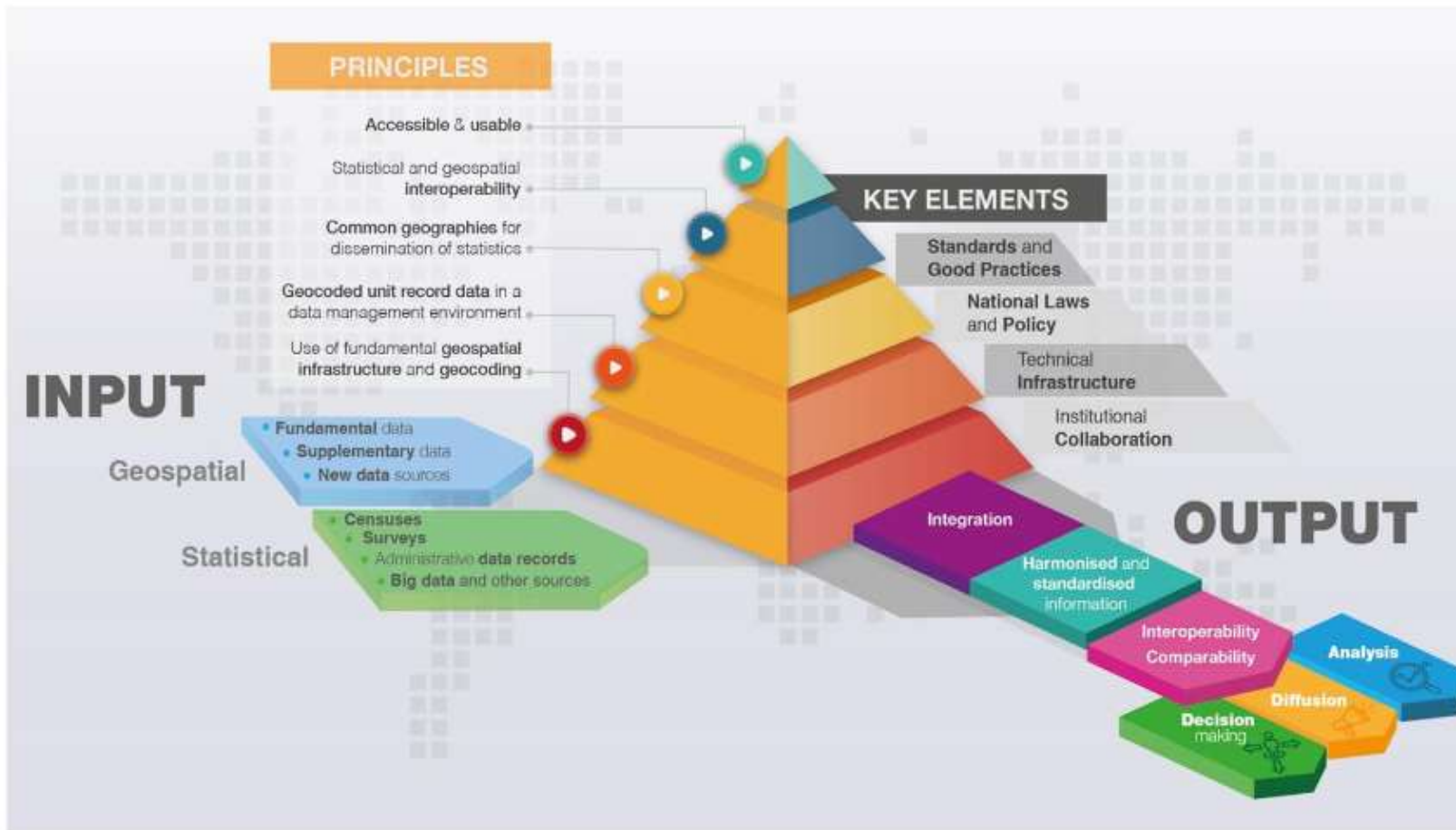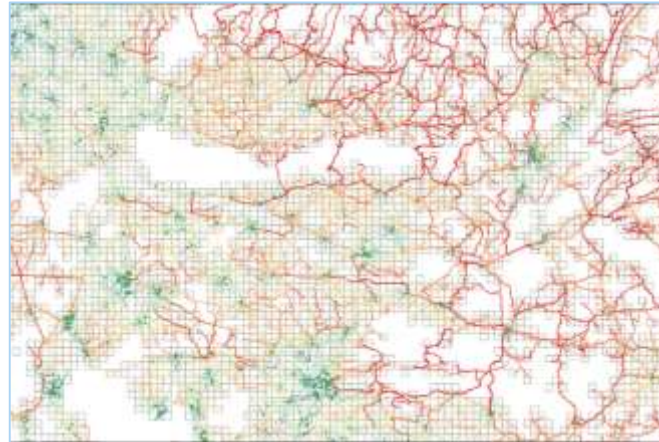
GISCO - the **G**eographic **I**nformation **S**ystem of the **CO**mmission
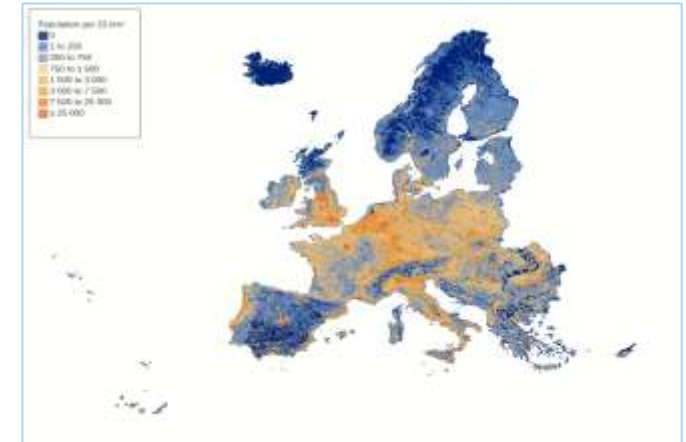
localise

analyse

visualise

Eurostats Workprogramm 2022

To bring Europe closer to citizens and regions, Eurostat will continue to make use of georeferenced data by systematically integrating and mainstreaming geospatial information into statistical production and **collecting more geospatial data, with a special focus on the core geospatial datasets** (³). This will allow for more detailed regional and local level statistics in areas such as demography, economy, environment, energy, transport and agriculture.

Management plan 20

EUROSTAT

(³) These are as defined by the Commission inter-service group on Geographic Information (COGI): administrative units, statistical units, buildings, cadastral parcels, addresses, transport networks, land parcel information system, postal codes, utility and governmental services.

https://ec.europa.eu/info/publications/management-plan-2022-eurostat_en

European Commission

Workflow for pan European GI Datasets

Computer Systems

INSPIRE Geoportal

data.europa.eu

Kohesio: discover EU projects

Human Intelligence

Local Contacts   Reports

EUROPEAN STATISTICAL SYSTEM   eurogeographics

NSI/NMCAs

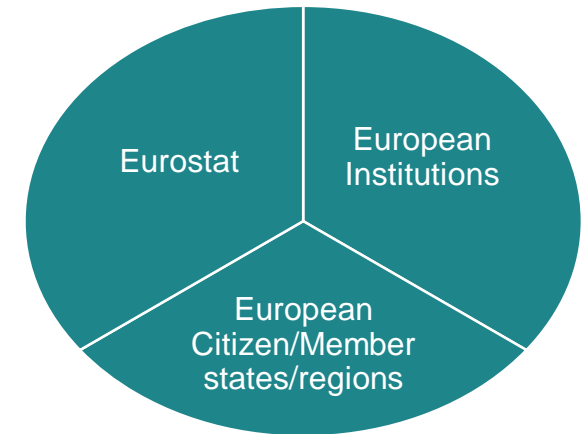Social media   Research projects

ETL

Analysis in Incoming WIKI
Import into Database
 QAQC Cycles,
 Integration, Generalisation,
 Topological Checks,
 Feedback   with MS
………..

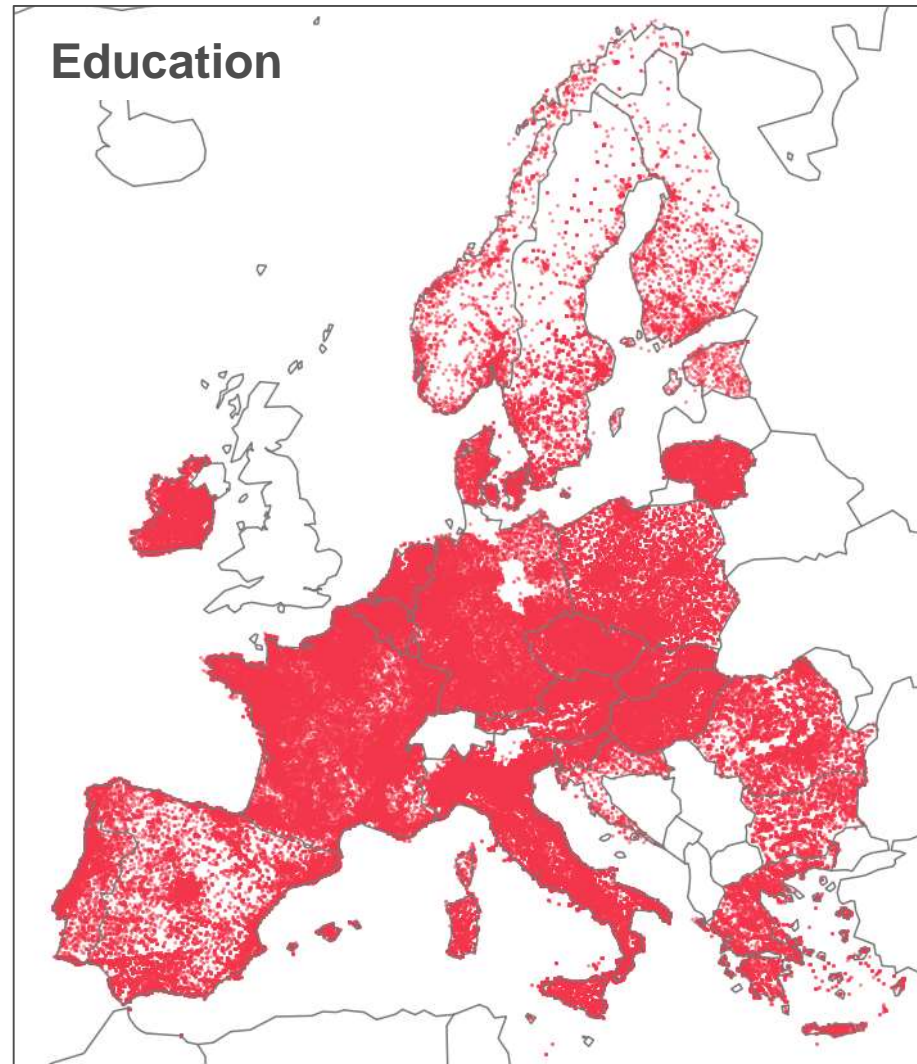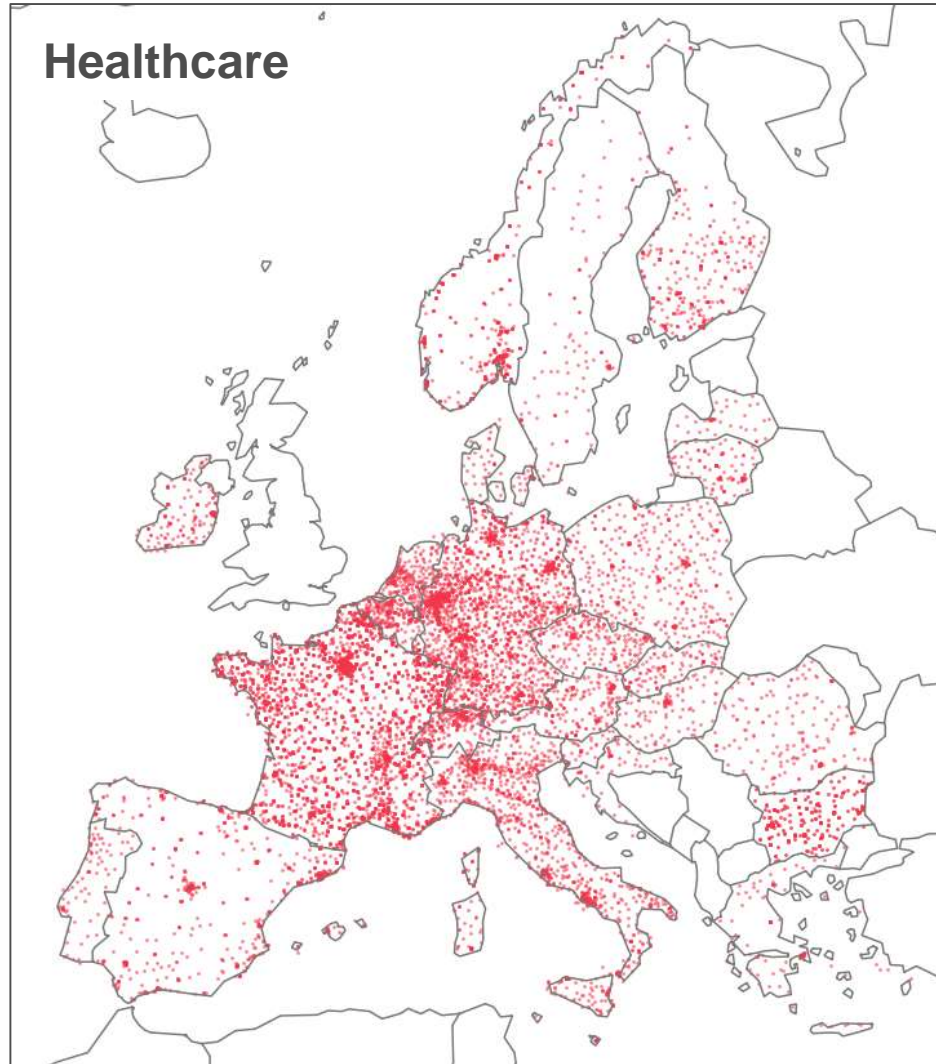Majority of work

Analysis / Dissemination

Eurostat | European Institutions

European Citizen/Member states/regions

GISCO ReferenceDB
Website   *Tercet*
Services: *Download*,
AddressAPI, *ID*, *VectorT*,
OGC-API

European Commission

Data & systems: Utility services, examples

Healthcare

Education

https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/healthcare-services

Geospatial analysis, aggregating into statistics

Access to Healthcare - Travel time (minutes) by 1km grid

eurostat

European Commission
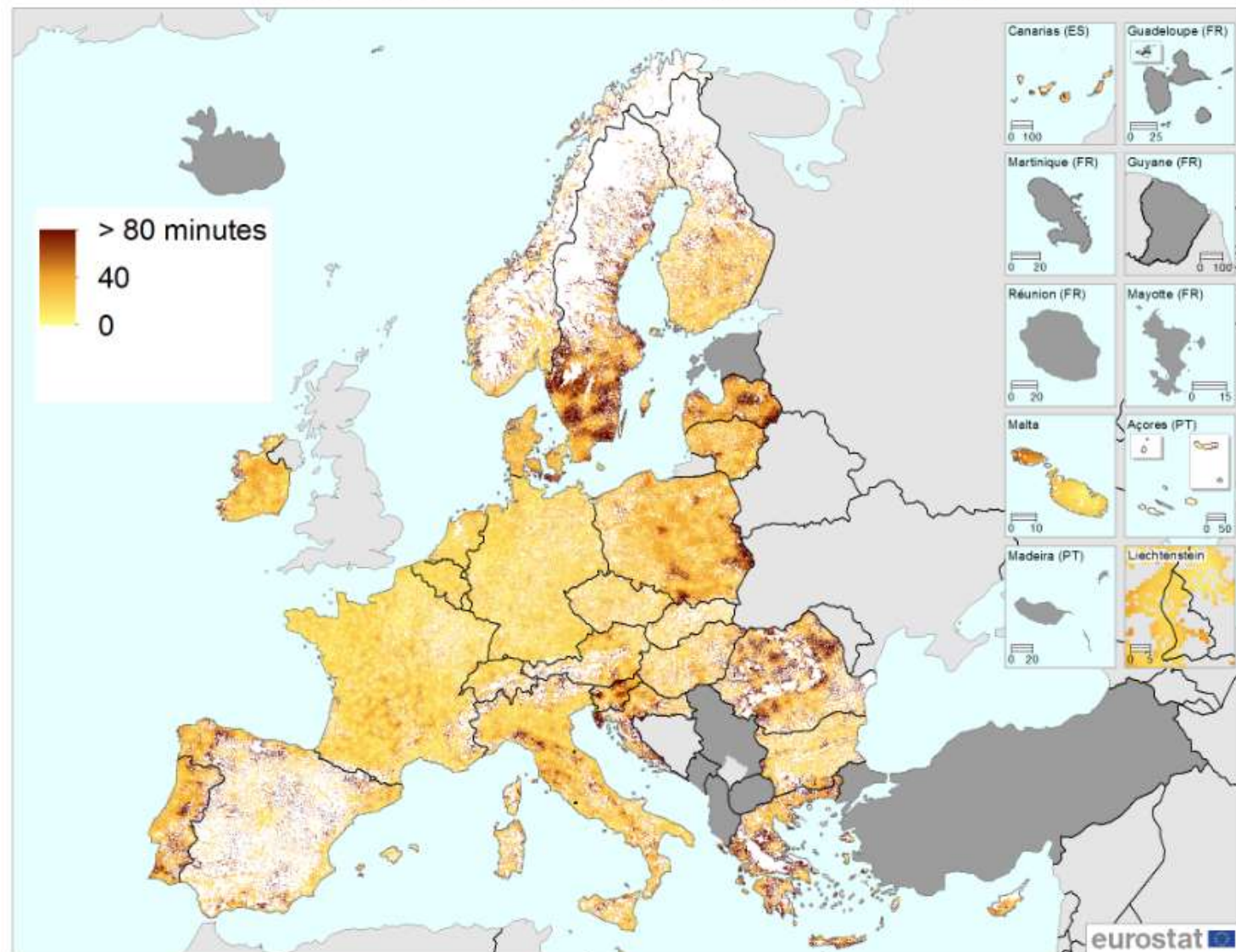
Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
Cartography: Eurostat — GISCO, 10/2021

Buildings

- +116 Million individual building footprints

- ~39 GB DB/GPKG

- In internal review

- Discussion with Data Providers next

- Unique ID based on MS Information

DK

Challenges / Opportunities

- Pan European progress is hampered by e.g.

  a) available datasets, b) stability of services, c) performance of services or

  d) at point of use restrictions due to financial demands.

- **Opportunities: More timely and more granular data (unit-record-based)**

- Code of conduct for Geospatial Data is required (e.g. PIDs, topology across domain, time-series) and enforced….

- API and Bulk Downloads are needed and support various user communities –

- We (the GIS community) need to move from spatial/special into the main stream usage…
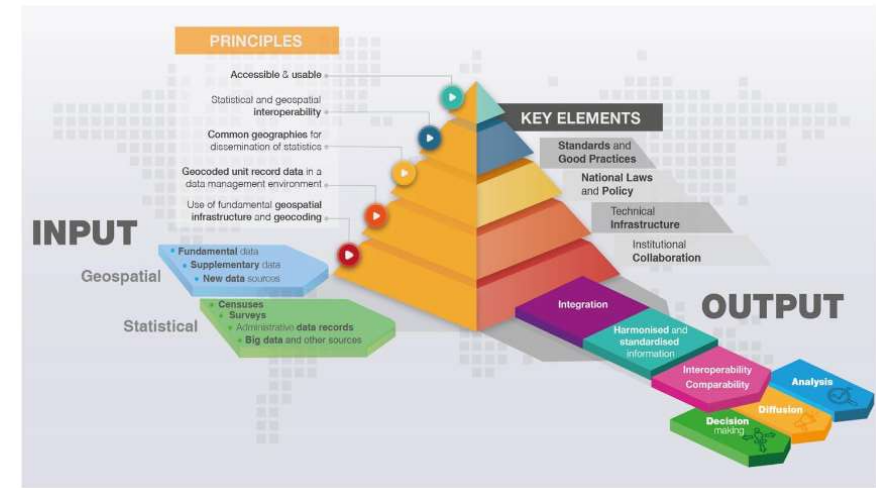
Thank you

Contact: estat-gisco@ec.europa.eu