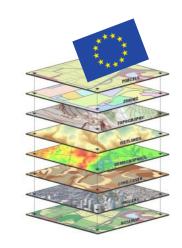


## Creation of pan-European geospatial datasets - some updates

Joint EuroSDR & EuroGeographics Workshop on Geodata Discoverability



### 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.

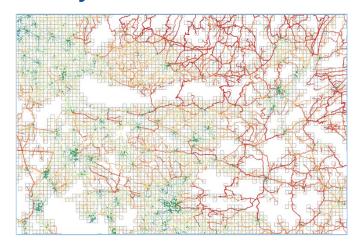


### GISCO - the Geographic Information System of the COmmission

### localise



### analyse

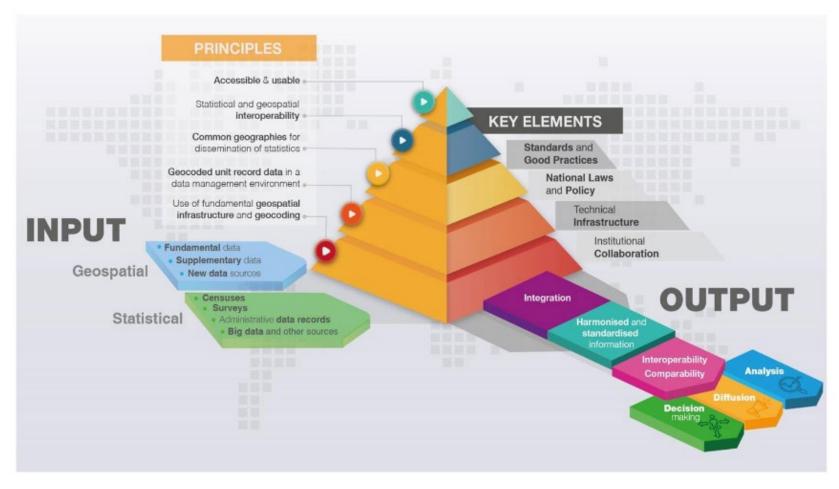


### visualise





### Global Statistical Geospatial Framework





### High Value Dataset Directive (HVD)

20.1.2023

 $_{\rm EN}$ 

Official Journal of the European Union

L 19/43

#### COMMISSION IMPLEMENTING REGULATION (EU) 2023/138

of 21 December 2022

laying down a list of specific high-value datasets and the arrangements for their publication and re-use

(Text with EEA relevance)

THE EUROPEAN COMMISSION.

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the reuse of public sector information (1), and in particular Article 14(1) thereof,

#### Whereas:

- (1) It transpires from Directive (EU) 2019/1024 that an EU-wide list of datasets with a particular potential to generate socioeconomic benefits and with harmonised re-use conditions is a significant enabler of cross-border data applications and services.
- (2) The main objective of establishing the list of high-value datasets is to ensure that public data of highest socio-economic potential are made available for re-use with minimal legal and technical restriction and free of charge.
- (3) Harmonising the implementation of the re-use conditions of high-value datasets entails the technical specification for making the datasets available in a machine-readable format and via application programming interfaces (APIs). Making high-value datasets available under optimal conditions strengthens the open data policies in the Member States, building on the principles of findability, accessibility, interoperability and reusability (FAIR principles).
- (4) Annex I to Directive (EU) 2019/1024 lays down the themes of high-value datasets by listing six thematic data categories: 1) geospatial; 2) earth observation and environment; 3) meteorological; 4) statistics; 5) companies and company ownership; and 6) mobility.

Article 6

#### Entry into force and application

This Regulation shall enter into force on the twentieth day following that of its publi Union.

It shall apply from 16 months after entry into force of this Regulation.

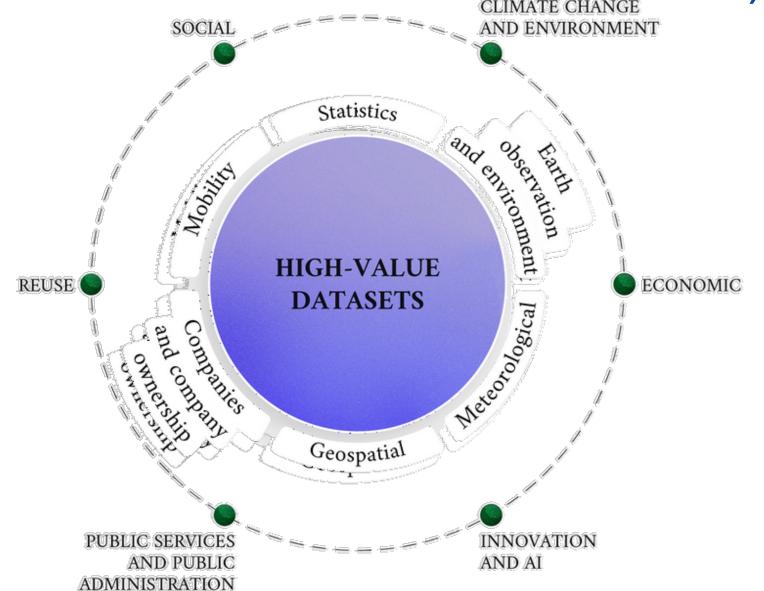
Publication: 20.01.2023 Deadline: 20.June 2024

Deadillie. 20.Julie 202

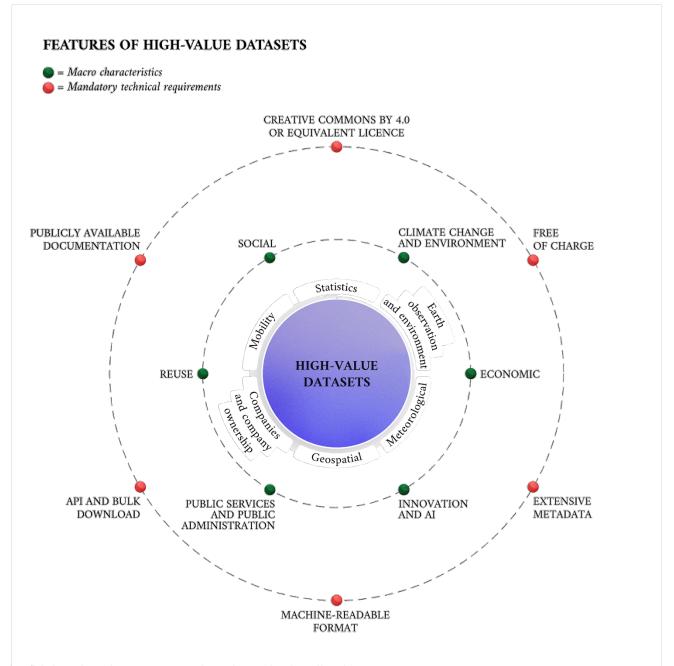
Legal text: **EN** 



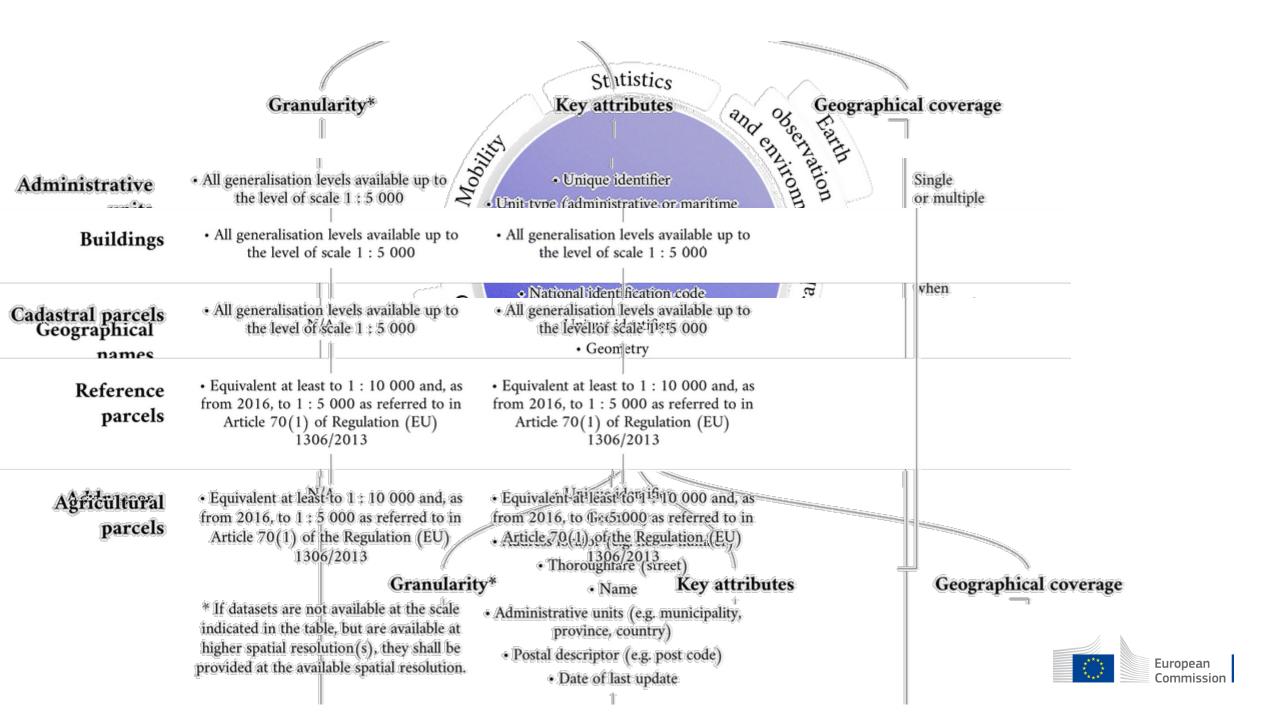
### High Value Dataset Directive (HVD)







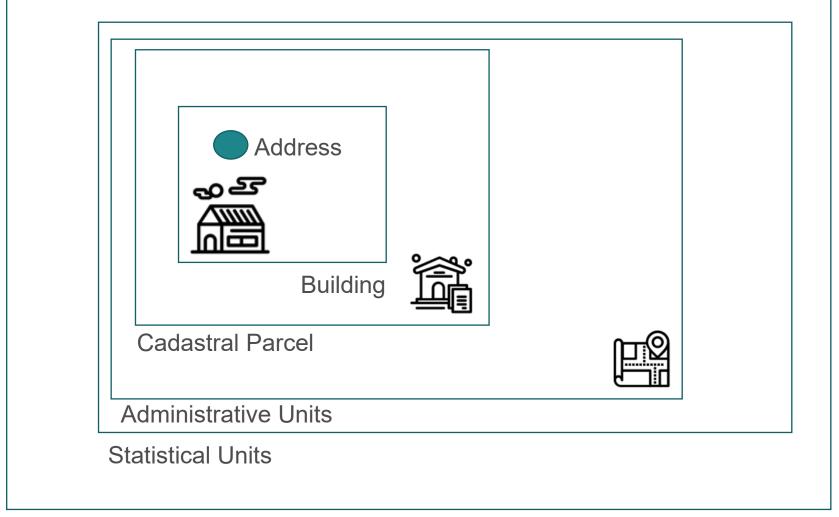




# Attribution Icons: flatart on Freepik

### Stacking GIS layers

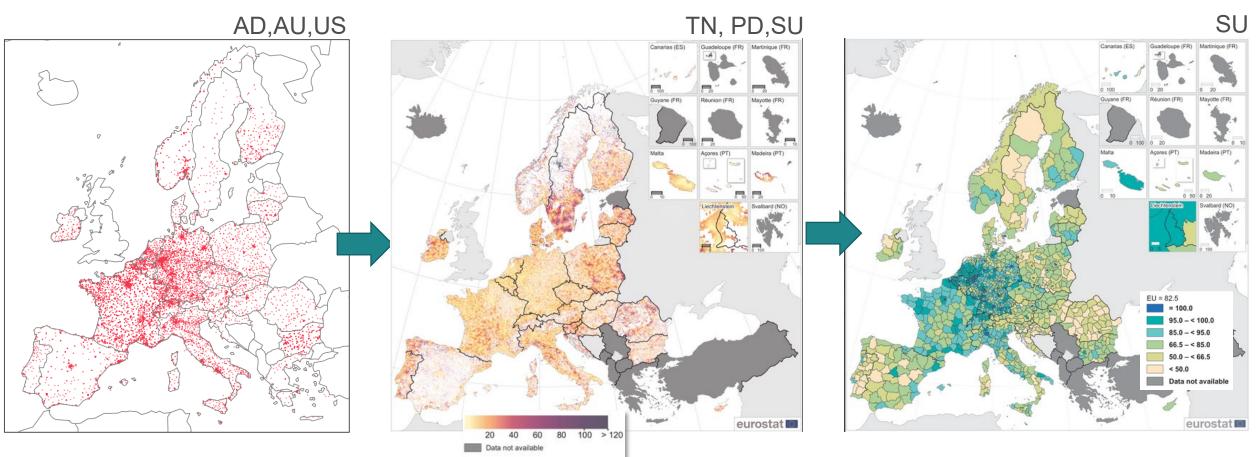
### Country







### Application Example for pan European GI Datasets



Data: Utility Services (US) - Healthcare from MS responsible authoritative organisation

Analytics: Routing, Population, Utility Services



Statistics: Reporting at NUTS level, DEGURBA



### Establishing pan European Datasets Workflow

Analysis / Dissemination

### **Computer Systems**

**INSPIRE** Geoportal





Kohesio: discover EU projects



### **Human Intelligence**

**Local Contacts** 

Reports





NSI/NMCAs

Social media





Research projects

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

. . . . . . . . . . . . . . . .

**Majority of work** 





GISCO ReferenceDB

<u>Website</u> <u>Tercet</u>

Services: <u>Download</u>,

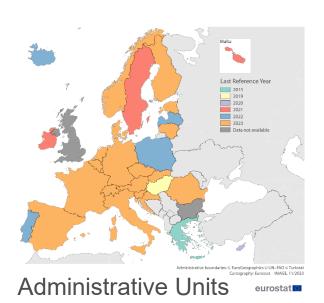
<u>AddressAPI</u>, <u>ID</u>, <u>VectorT</u>,

<u>OGC-API</u>





### Data & systems: GIS reference data – AU-SU-CP- BU-AD



Buildings by 10 km<sup>2</sup>
1 - 5000
5001 - 15000
15001 - 45000
45001 - 100000
100001 - 187702

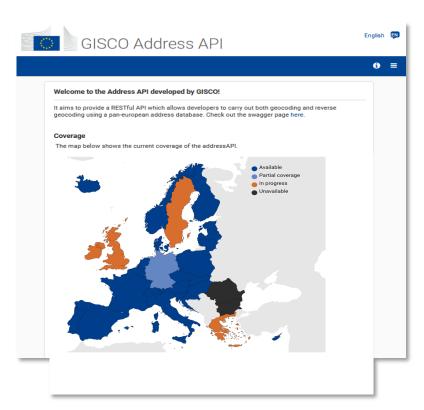
**Building Units** 

### Currently processing for 2023/2024



New datasets for AT, CH, HR

Call for contributions: estat-gisco-panEU@ec.europa.eu



Annual update in process
Dissemination pending some legal aspects

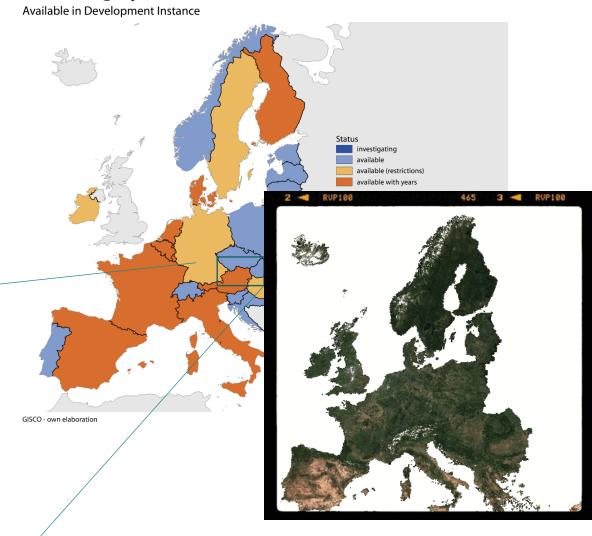
European Commission

### Ortholmagery (I)

- latest snapshot of OI from MS organisation
- If time series available will be supported
- Depends on MS service performance + data requirements
- Up to 0.2m



#### **Ortholmagery Status March 2022**

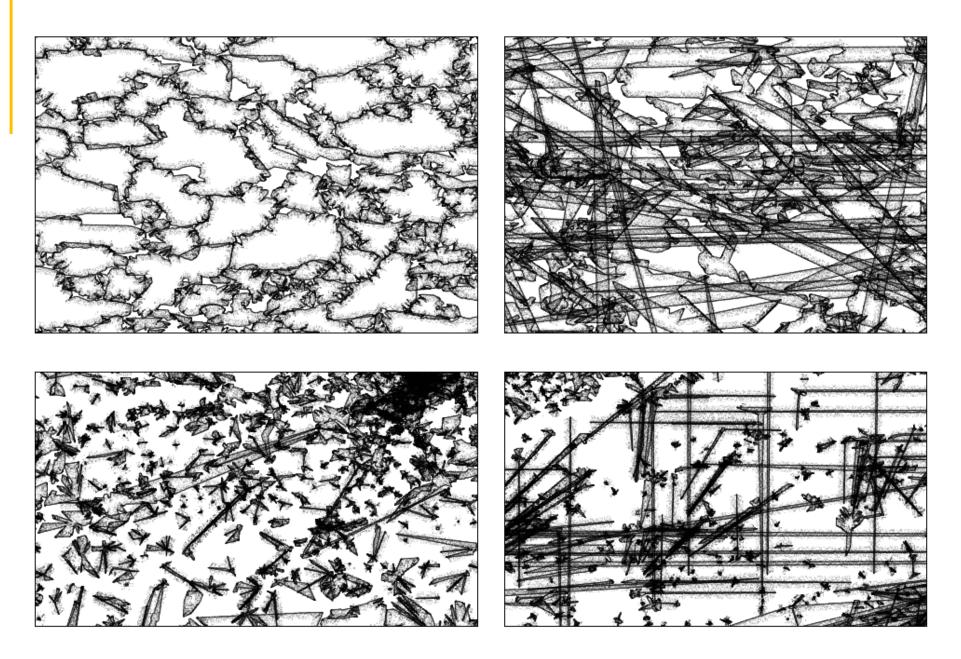


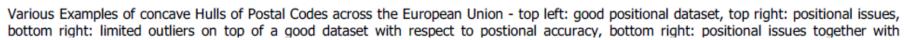


### **GIS** Observations

- Generalized data (250k scale vs 10k on ground) not usable Requirement: Data provided according to EU core reference data specification
- Data are not aligned across datasets (AU,AD,PC, BD,TN) (road in the middle of a building, address point in a different AU unit), Requirement: QAQC in MS
- Quite varying quality control across themes and countries Requirement: Quality Control
- Richness of datasets differs extremely (from line geometries only without attributes to full stack dataset according to INSPIRE specifications) Requirement: Rich data content needs to be in distributed datasets
- Feedback loop with MS extremely important Requirement: Resources at MS level to fix issues
- Various slight variations of INSPIRE implementation we still prefer INSPIRE implementations. Requirement: Harmonising INSPIRE implementations









### Conclusions

- Eurostat works on a range of topics for pan-European data sets
- Depending on the datasets a) European Databases are created or b) datahub pointing back to MS resources to provide services internally/externally
- Annual updates In general good feedback iterations with data providers as they see their data used and can improve..... takes time + resources (e.g. funding available via REGIO/CONNECT/ESTAT)
- Progress is hampered by e.g. a) documented and available datasets, b) stability of services, c) performance of services and d) willingness of data providers.
- Code of conduct for Geospatial Data is required



### Thank you

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### ESTAT-GISCO-PANEU@EC.EUROPA.EU



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