

The value of NMCAs data for Copernicus

Joint Conference PCC-CLRKEN EuroGeographics

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Introduction – Copernicus and In Situ Data

Key user requirements cannot be met unless Copernicus has access to essential in situ data

Copernicus in situ data: observations, reference and ancillary data licensed or provided for use in Copernicus

All Copernicus Services require in situ data to produce and validate their products

The Copernicus Space Component requires in situ data for calibration and validation of Sentinel observations









In situ

Introduction – Copernicus and In Situ Data

Where is in-situ data coming from?

- Predominately from national data owners and providers → YOU
- Organised in European or global networks, organisations, and European Research Infrastructures.











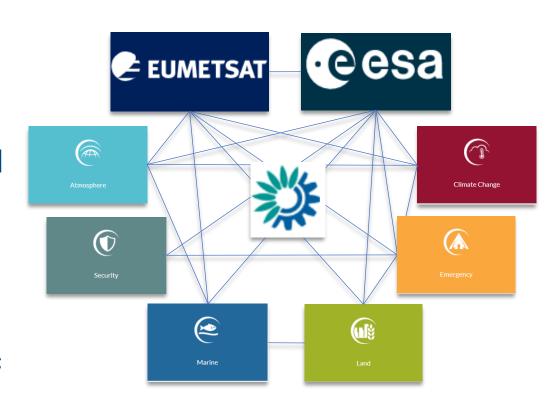
Introduction – role of EEA in Copernicus In Situ

In situ

 Entrusted Entities access in situ data directly according to their operational needs.

The Entrusted Entities are responsible for day-to-day activities, setting up and managing technical interfaces;

 The EEA intervenes in cases where a coordinated approach to accessing in situ data is required at a programmatic level.











Introduction - Areas of work

In situ

EUROPEAN UNION





Use of NMCA data in Copernicus Services

In situ











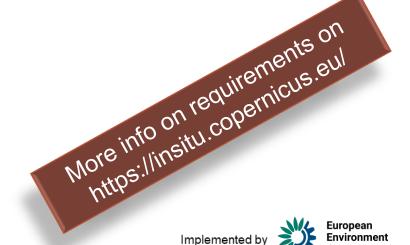






MARITIME SURVEILLANCE COMPONENT

SUPPORT TO EU EXTERNAL ACTION









Copernicus Service Agreement with EuroGeographics

In situ







Copernicus Services Framework Agreement Between: EuroGeographics AISBL, an international non-profit organisation under Relgian Law with its registered office at address F

2.1 Access to the following data will be granted: orthophotos, accuracy = to or better than 0,5 m ☐ raster topographical maps 1:50 000 or larger georeferenced datasets in vector format with an accuracy equivalent to a □ built up areas I toporwns / place name Inydrography □ buildings 。 □ addresses a cadastral parcels

Annex 1

Purpose of this Anne \sqcup orthophotos, accuracy = to or better than 0,5 m ☐ digital elevation models (DEM) with a resolution of fm = 25m (accuracy: ground control points ☐ land use / land cover 1:50 000 or larger traster/vector Il land parcel identification system (LEIS) data - Goo-spatial aid application (GSAA) data □ raster topographical maps 1:50 000 or larger □ ground mation and/or single structure/building displacement Diphenological observations In national forest inventories peopelescenced datasets in vector format with an accuracy equivalent to a □ administrative boundaries E shoreline

Annex 3 Purpose of this Annex

European Environment Partnership to create new framework agreement will benefit Copernicus Services



PROGRAMME OF THE **EUROPEAN UNION**

o other (please detail









Status of signature of agreement with EG members











Access to geospatial data: CORDA

In situ

Single entry point node to the relevant national and regional geospatial reference data



Provide access to the relevant and digitally available national and regional reference data and services across Europe



Emergency Management

CORDA

Land Monitoring

Security

CORDA is restricted to access by Copernicus services providers only

https://corda.eea.europa.eu/



40

Countries



273

Data providers



1.855

Datasets

Resources

Themes

Resource types



5.225



28



19



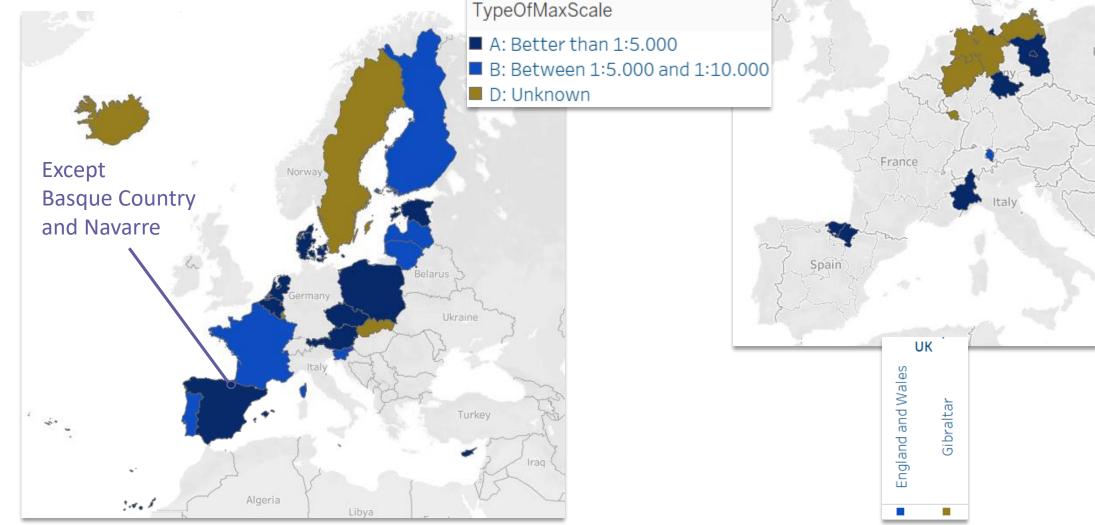






Cadastral Parcels (CP) datasets currently in CORDA





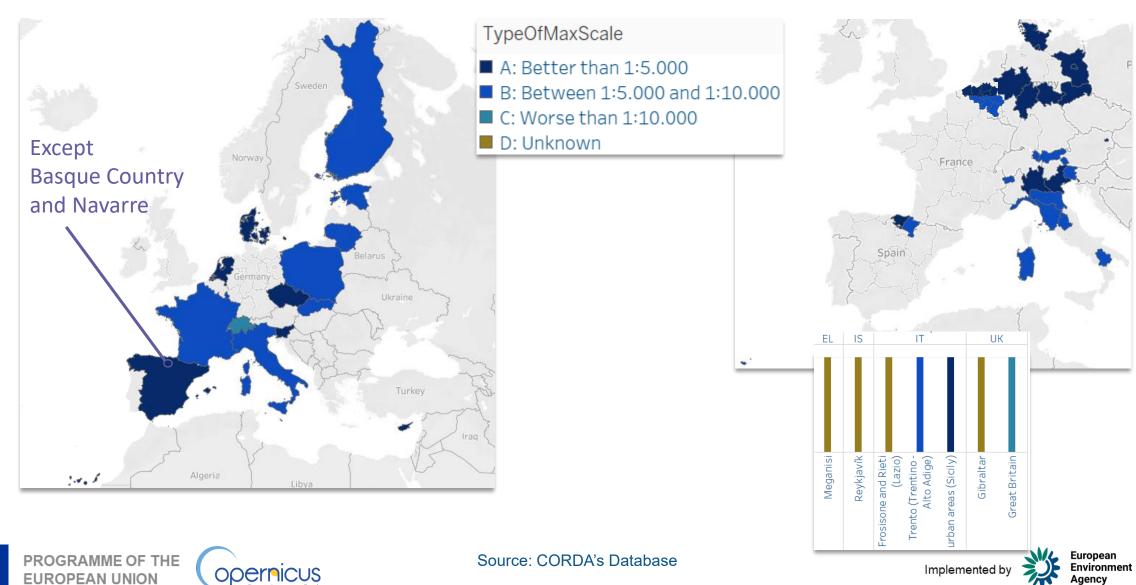








Building (BU) datasets currently in CORDA





Next steps in the Copernicus Framework Agreement

- Follow up signature of annexes by EG members with EG Head Office
- Engage with NMCAs to ensure access to their data via CORDA
 - CORDA team has assessed the existing data offers already available to Copernicus
 - EuroGeographics Head Office will act as a facilitator between NMCAs and CORDA team
 - Guidance material and use cases will be prepared
- Online webinar on 23 November with EG Members
- Review CEMS Annex to ensure it reflects correctly current requirements





ata Provider	Country	Number of datasets
State Authority for Geospatial Information (ASIG)	Albania	20
Federal Office of Metrology and Surveying (BEV)	Austria	5
National Geographic Institute of Belgium (NGI) / (IGN)	Belgium	11
Geodesy, Cartography and Cadastre Agency (AGCC)	Bulgaria	1
State Geodetic Administration of the Republic of Croatia (DGU)	Croatia	10
Cyprus Department of Lands and Surveys	Cyprus	19
Czech Office for Surveying, Mapping and Cadastre (CUZK)	Czechia	25
Agency for Data Supply and Efficiency	Denmark	17
Estonian Land Board	Estonia	17
National Land Survey of Finland (NLS) / (MML)	Finland	14
National Institute of Geographic and Forest Information (IGN)	France	15
National Agency of Public Registry	Georgia	1
Federal Agency for Cartography and Geodesy (BKG)	Germany	1/1









Additional activities in 2023-2024 with EuroGeographics

- Follow up High Value Datasets IR implementation and its impact on the availability of data for Copernicus
- Ensure the appropriate links between OME2 project and Copernicus
 - Collect the requirements/needs for a pan-European HVD via stakeholder meetings
 - Establish users within the EEA/Copernicus to test the first outcomes and give feedback









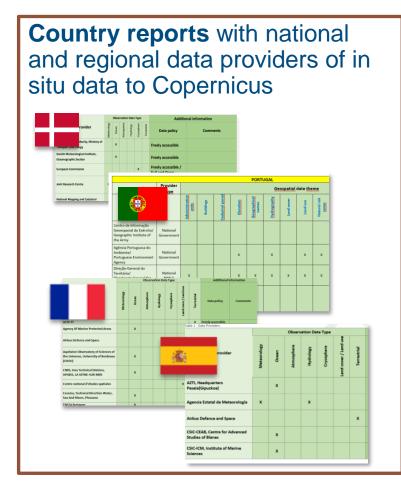


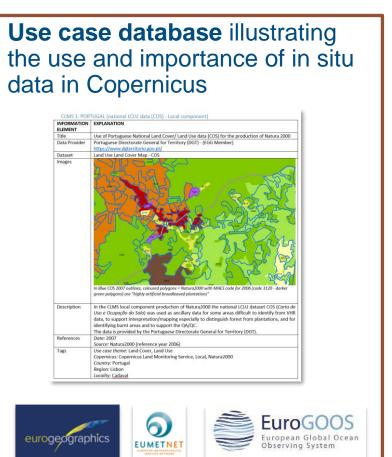


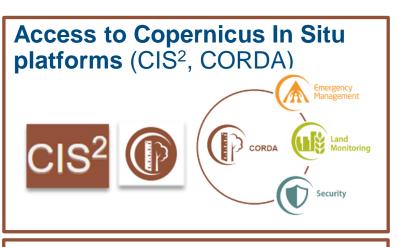
Communication – revamped in situ portal

In situ

In Q4 2023 a project for a revamped in situ portal will kick off, including inter alia:



















Concluding remarks

- NMCAs are already contributing essential data to Copernicus services, making a big difference in Land and Emergency Applications;
- The current contractual arrangement with EuroGeographics (within GEOID consortium) is helping bridging the data gaps still existing;
- The Partnership Agreement signed in 2022 is ensuring clear mutual understanding of Copernicus requirements and NMCA products;
- EEA and EG Head Office will pursue further capacity building activities
 to facilitate the actual implementation of the agreement with EG Members.







Thank you!

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