Towards improved use of NMCA's data and services by Copernicus

In situ

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European Environment Agency

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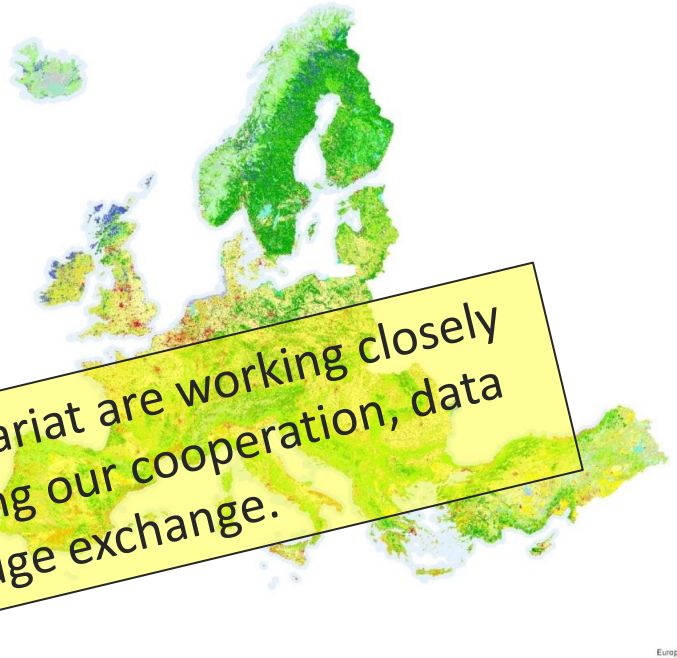
Copernicus uses geospatial information

In situ

Copernicus Services need access to open, up-to-date, and harmonised geospatial information across Europe for production and validation purposes.

Data produced by NMCAs are key to the success of Copernicus.



European Environment Agency (EEA)

EEA and EuroGeographics' secretariat are working closely together with a view to improving our cooperation, data access, and knowledge exchange.

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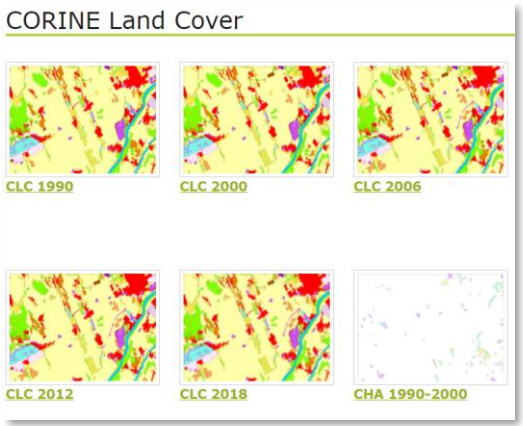
Copernicus Land Monitoring Service

Key USER



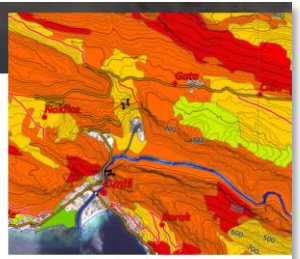
Key Copernicus land monitoring products requiring geospatial data to meet end user requirements regarding content and quality.

Key USER

RISK AND RECOVERY MAPPING

The On-demand Mapping service provides on-demand detailed information for emergency situations that arise from natural or man-made disasters anywhere in the world (e.g. flood, fire, earthquake, storm, industrial accidents). It supports all phases of the emergency management cycle: Rapid Mapping supports the emergency response; and Risk and Recovery the preparedness and recovery phases.

The Risk and Recovery Mapping service is offered in an international context of the Sendai Framework for Disaster Risk Reduction and targeting information layers that support decision making in the emergency management phases that are not directly related to response. Global efforts in disaster risk reduction recognise the role of satellite and aerial sensor imaging data sets and/or related value-adding information services in preparedness, prevention, and reconstruction. The EMS mapping for disaster risk reduction and recovery service will remain a unique European contribution in this context, as it focuses on the information extraction for hazard characterization in a range of preparedness, recovery, and response contexts.



Assets and Population Exposure Map – Forest Fire Risk Assessment (Croatia)

Space

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RAPID MAPPING

The On-demand Mapping service provides on-demand detailed information for emergency situations that arise from natural or man-made disasters anywhere in the world (e.g. flood, fire, earthquake, storm, industrial accidents). It supports all phases of the emergency management cycle: Rapid Mapping supports the emergency response; and Risk and Recovery the preparedness and recovery phases.

Rapid Mapping provides geospatial information within hours or days of a service request in order to support emergency management activities in the immediate aftermath of a disaster. The service and its outcomes are used by various actors active in the field of crisis management – with e.g. national civil protection of the EU Member States, EU agencies and services, and international humanitarian aid organisations. The outcomes are both ready-to-print maps to quickly visualise the main results, and geospatial data to be integrated in geoinformation systems for further analysis. All mapping products are available for free on the portal and in the activation viewer (except for sensitive activations).

Example of a delineation product, showing the extent of the flooded area, the main access roads, and the settlements.

Space

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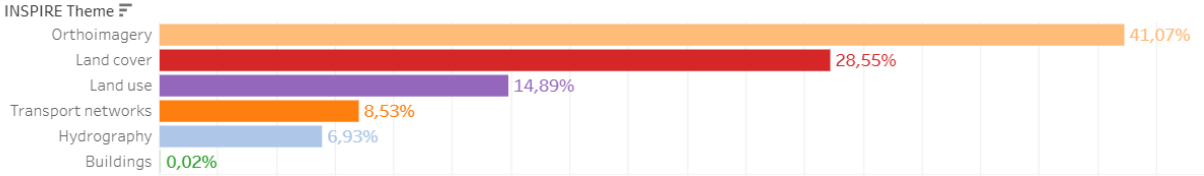
Key Copernicus emergency management products requiring geospatial data to meet end user requirements regarding content and quality.

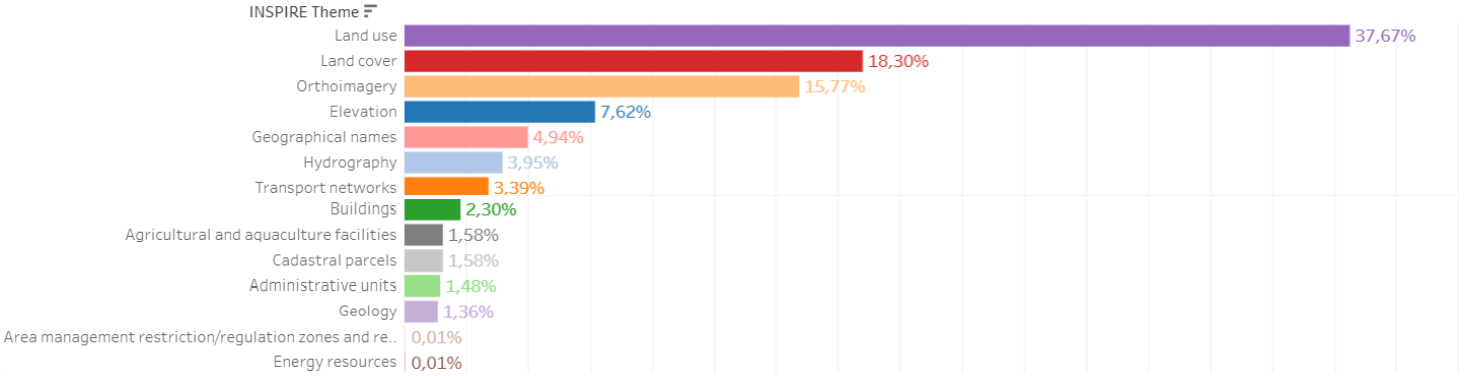
What data are the Services looking for?

In situ

Copernicus Land Monitoring Services



Copernicus Emergency Management Services



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EEA's main cross-cutting activities

In situ

Maintain an overview of the Copernicus In Situ Component

Improve access to selected in situ data

Raise awareness about the Copernicus In Situ Component

This work is done in close cooperation with the Copernicus Services

The EEA is supported by the GEOID consortium led by e-geos.
EuroGeographics is member of GEOID.

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Copernicus
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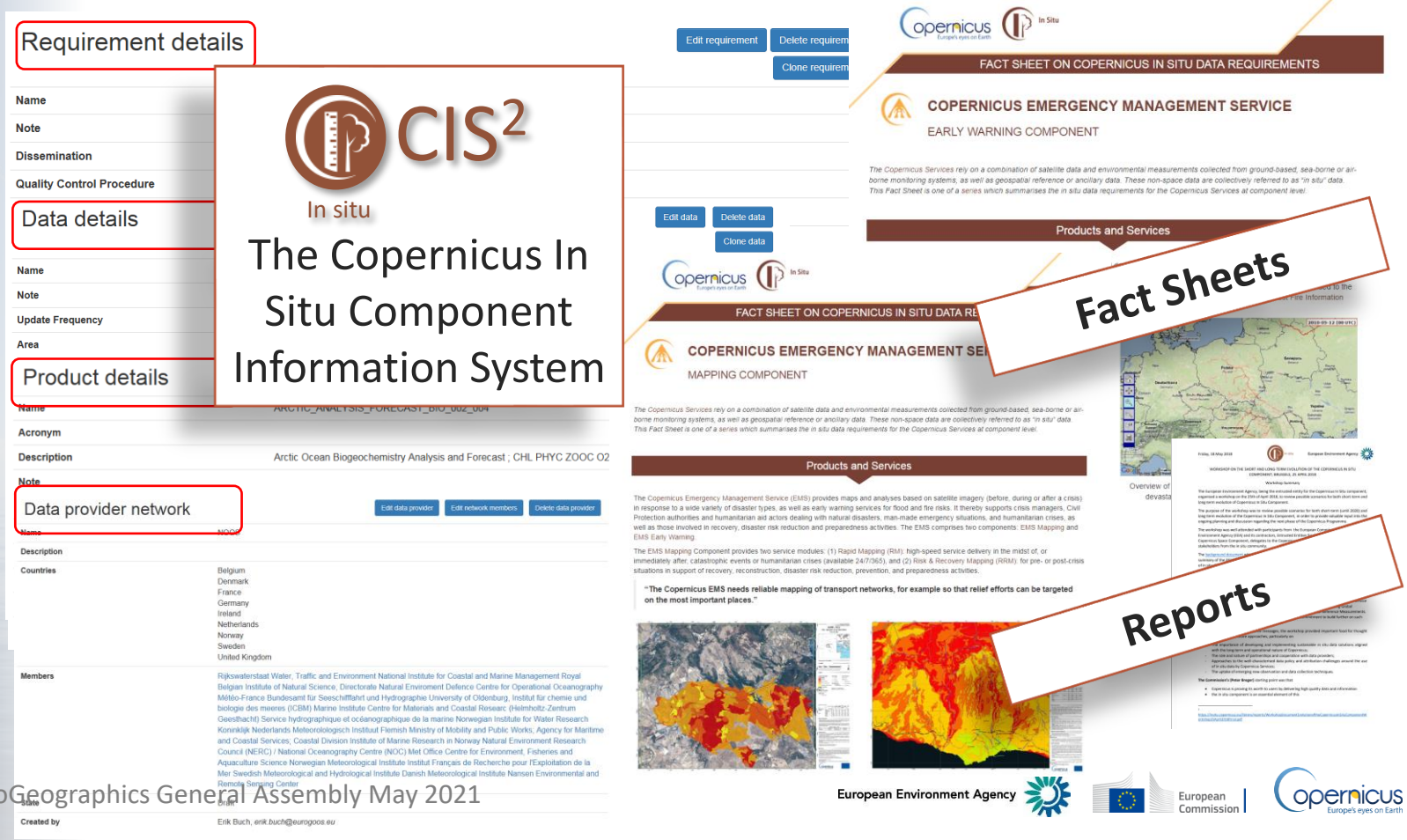
The EEA is creating an overview

In situ



The EEA and EuroGeographics

In situ

- The EEA has signed an overarching Partnership agreement with EuroGeographics;
- The EEA has signed bilateral agreements with 22 National Mapping Agencies;
- The EEA has evaluated key activities initiated by EuroGeographics with Copernicus' requirements in mind:
  - European Location Services (ELS & OpenELS);
  - Core Reference Data Set prototype.

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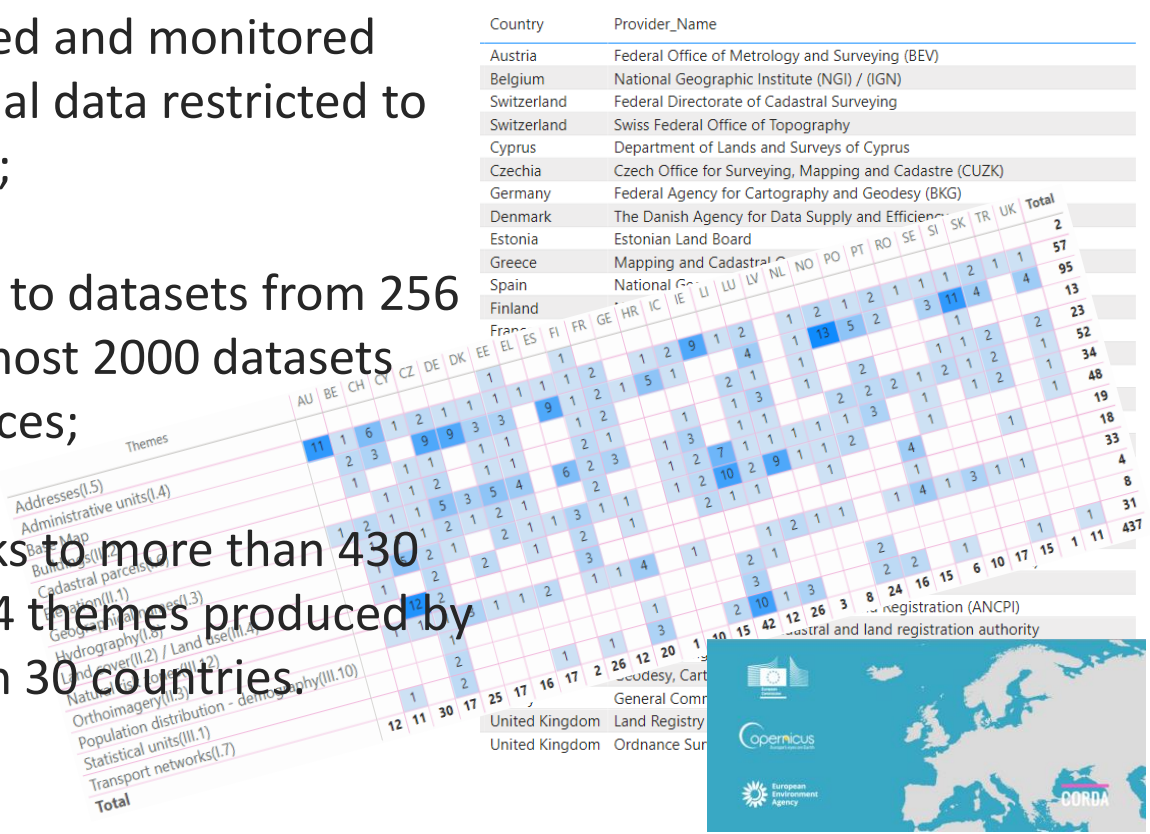
CORDA and National Mapping Agencies

In situ

- CORDA is a controlled and monitored gateway to geospatial data restricted to Copernicus services;
- CORDA gives access to datasets from 256 data providers – almost 2000 datasets and 5900 data services;
- CORDA contains links to more than 430 datasets covering 14 themes produced by mapping agencies in 30 countries.



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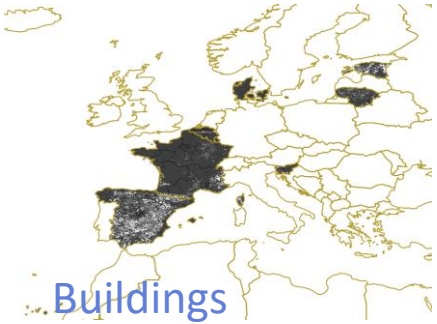
Multi-Country dataset

Multi-country datasets are based on INSPIRE compliant and compatible data made available according to the INSPIRE Directive

Standing water



Buildings

Administrative Units

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Take home messages

Current situation

- Individual license agreements limited to the Copernicus Emergency Management Service;
- A Partnership Agreement signed March 2017;
- Scattered news articles on the importance and use of geospatial data by Copernicus.

The future

- One license agreement between the EEA and EuroGeographics with reduced use restrictions for the benefit of all Copernicus services;
- An improved Partnership Agreement reflecting our joint vision on cooperation and data sharing;
- Better recognition of NMCAs essential contributions to Copernicus.

For more information

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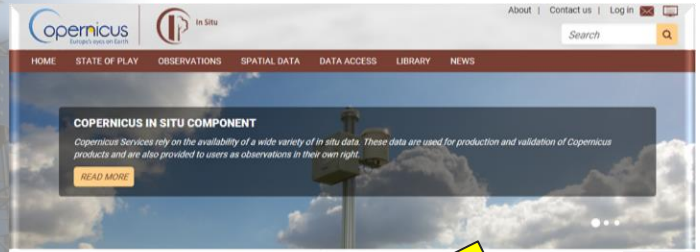

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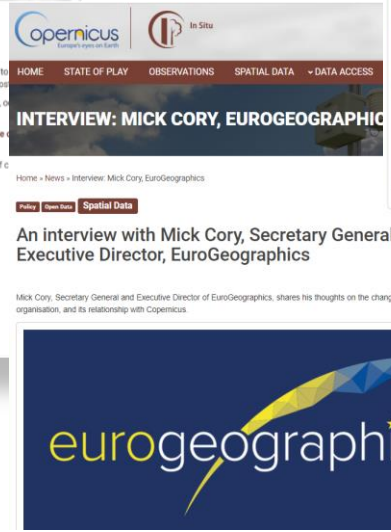

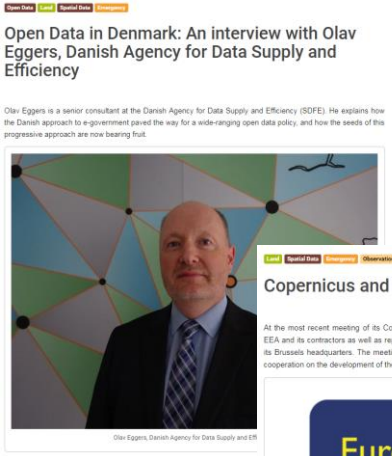

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Thank you for your attention

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