Copernicus and in situ data





7th Copernicus Czech National User Forum Dr Hans Bruyninckx, 7 June 2018, Prague



The European Environment Agency (EEA)

The EEA's mission

To provide relevant, reliable, targeted and timely information to policy-makers and the public.

To help achieve significant and measurable improvements in Europe's environment and to support sustainable development.









EEA - Eionet roles in Copernicus 2014-2020







Use of Copernicus in the EEA MDIAK framework

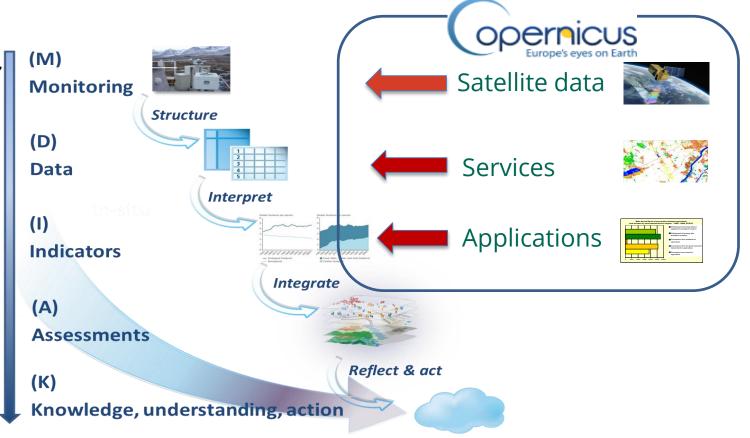
In-situ monitoring, surveys, satellite observations

Local, National, European, Global, statistics

Indicators, environmental accounting

Integrated assessments across scales

Communities and academies

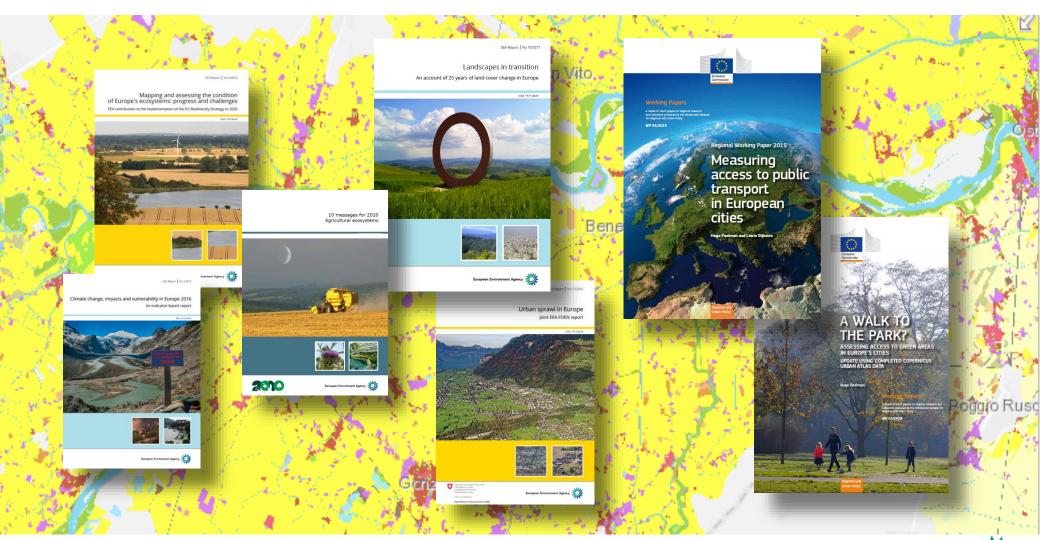








Copernicus Information Products in EEA's Reports









Copernicus Land Monitoring Core Services



Systematic Biophysical Monitoring



Land Cover & Land Use mapping



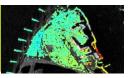
Thematic hotspot mapping



Reference data



Ground Motion service









Find more information on











Setting the in situ data scene



 Copernicus is a success and offers excellent data and information products to users.

 In situ data constitute part of the foundation for Copernicus' success; and Copernicus collects and uses an enormous amount of in situ data on a routine basis.

 In situ data is needed for the production and validation of Copernicus Data and Information Products.









Setting the in situ data scene



Copernicus relies primarily on existing 'in situ data' capacities.

 The Copernicus In Situ Data Component is primarily implemented by the Copernicus Services and the Space Component. Crosscutting coordination is the responsibility of the EEA.



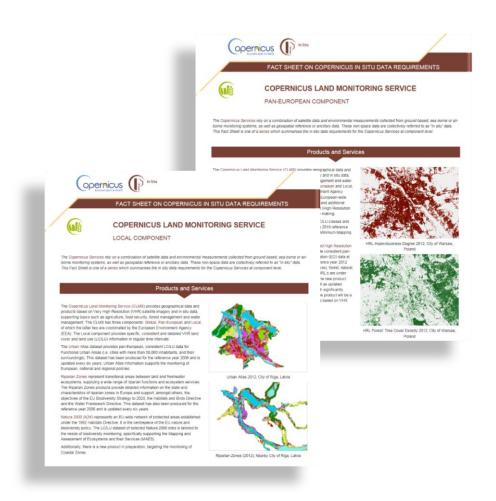




CLMS - Local & Pan-European Component

Reliable and timely access to essential in situ data is required to:

- Support visual interpretation and feature delineation of land cover/use objects;
- Improve the reliability and accuracy of the thematic products;
- Improve the calibration of the density products, e.g. imperviousness and tree cover density;
- Support validation of products and internal quality control steps.











Known key in situ data challenges

- Data policy
- Sustainability
- Accessibility
- Data quality
- Coverage
- Timeliness
- Data gaps

"Stable and sustained long-term solutions are needed"

"Use restrictions are often incompatible with Copernicus' data policy"

"Acknowledgement and attribution of ownership"

"Sustainability of in situ observing systems remains a strong concern"

"Access to locally available observations"









The EEA's main cross-cutting activities

Maintain an overview of the Copernicus in situ component

Improve access to selected in situ data

Raise awareness about the Copernicus in situ component









Coordinated data access

The EEA is making national datasets available to the Copernicus Services though a protected and dedicated portal.











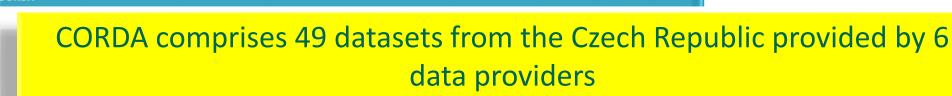
CORDA

Czech Republic Data Providers contribute

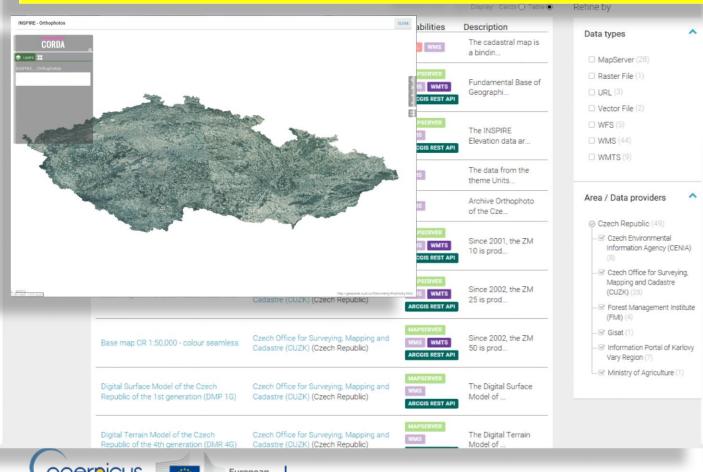
Statistics

Help

Management



What's New



Explore

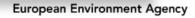
Search

Data Providers





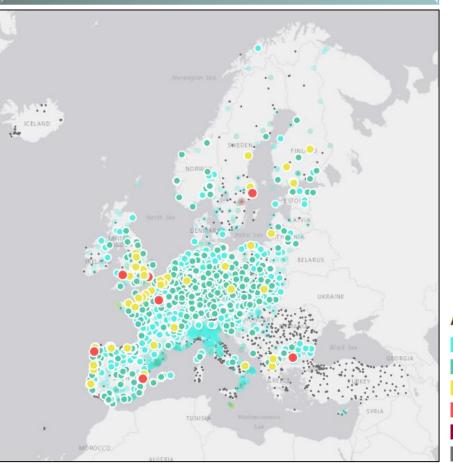






EEA/EIONET is delivering data to Copernicus





The EEA delivers Upto-Date Air Quality Observations to Copernicus via the EIONET Core Data Flow.

















Find more information on







Observations Spatial Data Policy

of the in situ component with the Copernicus Services use in situ data, Copernicus services, and the road ahead and how the European Commission

supports the further development of the

Spatial Data Policy

in situ component.

READ MORE...





Concluding remarks

- In situ data is an integrated and essential part of Copernicus.
- Data from Member States are critical to ensure the quality of Copernicus Data and Information products.
- A long-term strategy and operational solutions are needed to mitigate key challenges in particular sustainability and data policy.
- The EEA and its Environment Information and Observation Network is committed continuing cross-cutting coordination to reach effective and cost-efficient in situ data solutions.





Thank you

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