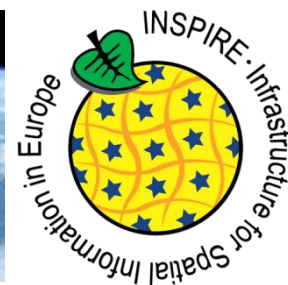


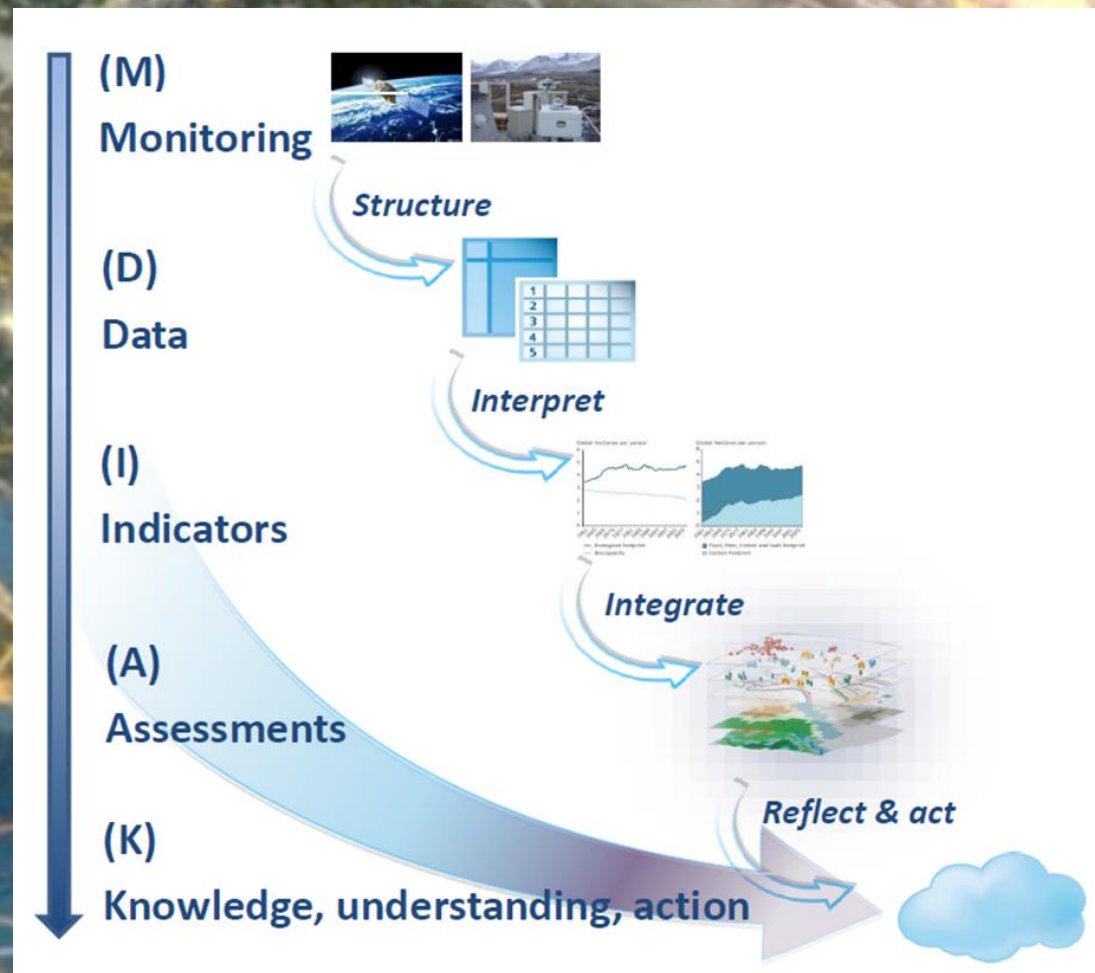
Unlocking the power of information for the environment

Chris Steenmans – Head of Programme, EEA



Outline

use
What we produce
provide



EEA member and cooperating countries – Eionet*



EEA coverage

Member countries

Cooperating countries

*Kosovo under UNSCR 1244/99

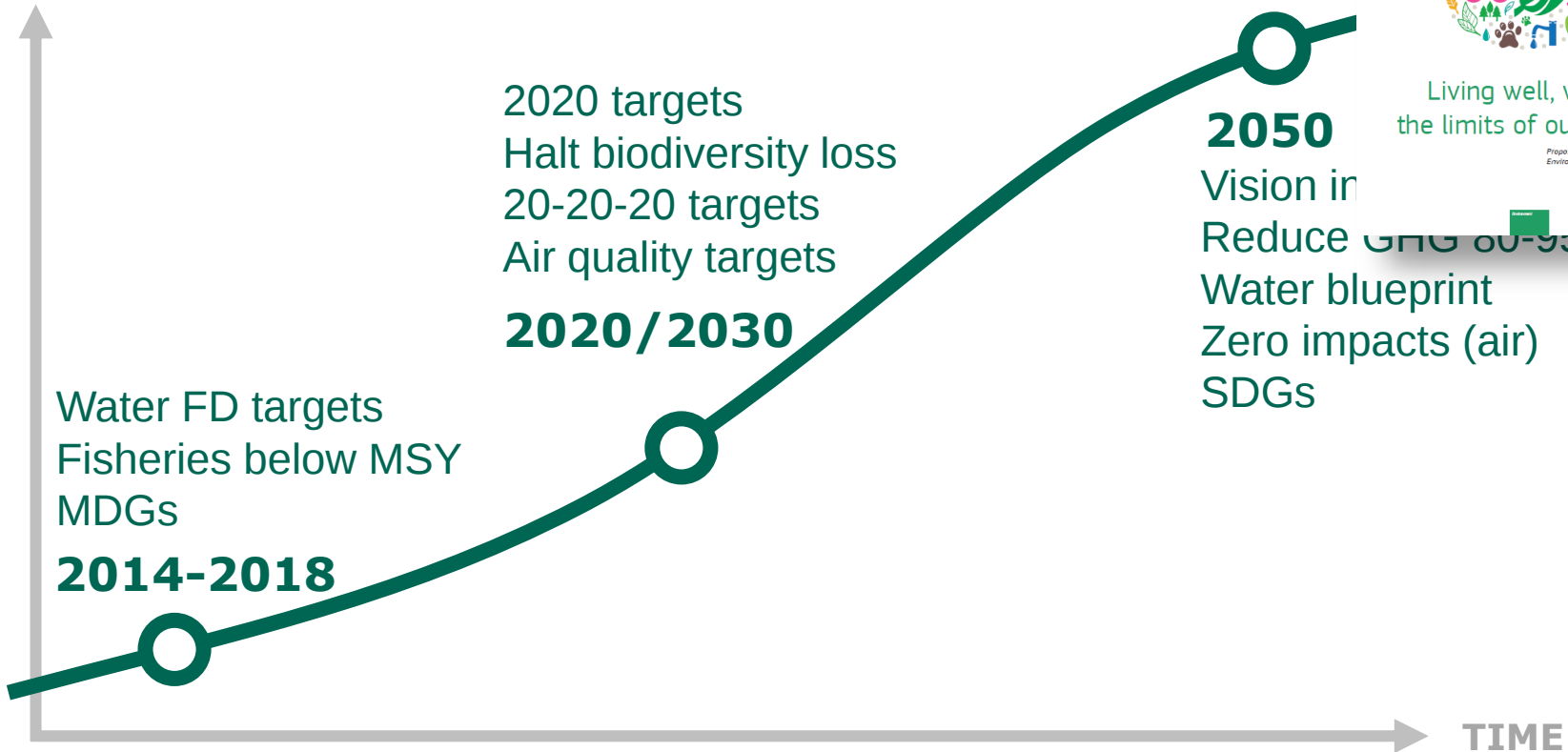
*European Environment Information and Observation Network

About 300 national institutions in 33 + 6 member countries:

- national focal points;
- national reference centres;
- European topic centres;
- other institutions.

The developing policy framework

SUSTAINABILITY



Living well, within
the limits of our planet
Proposal for a general Union
Environment Action Programme

2014-2018 thematic policies timelines and deadlines.

2020/2030 comprehensive policies (Europe 2020, 7th EAP), or specific targets.

2050 long-term visions and targets with a societal transition perspective.



Supporting the developing policy framework



EEA Strategic Areas

1. Informing policy implementation
2. Assessing systemic challenges
3. Knowledge co-creation, sharing and use

1: Informing policy implementation



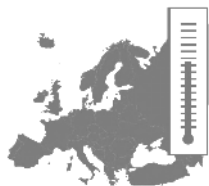
Air pollution, transport
and noise



Industrial
pollution



Climate change
mitigation and energy



Climate change impacts,
vulnerability and
adaptation



Water management,
resources and
ecosystems



Marine and maritime,
fisheries and coastal



Biodiversity, ecosystems,
agriculture and forests



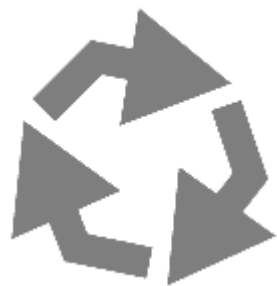
Urban, land use and
soil



Waste and material
resources



2: Assessing systemic challenges



Resource-efficient
economy and the
environment



Environment, human
health and well-being



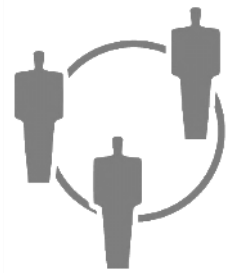
Megatrends and
transitions



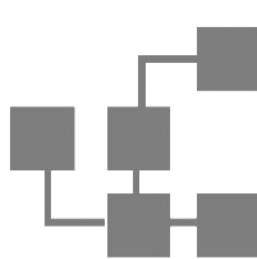
Sustainability assessments and
state of the environment
reporting



3: Knowledge co-creation, sharing and use



Networking and
partnerships



Technical systems
development



Capacity building in
West Balkan and
European Neighbourhood
countries



Communication,
outreach and
user analysis



Monitoring, data
and information
management



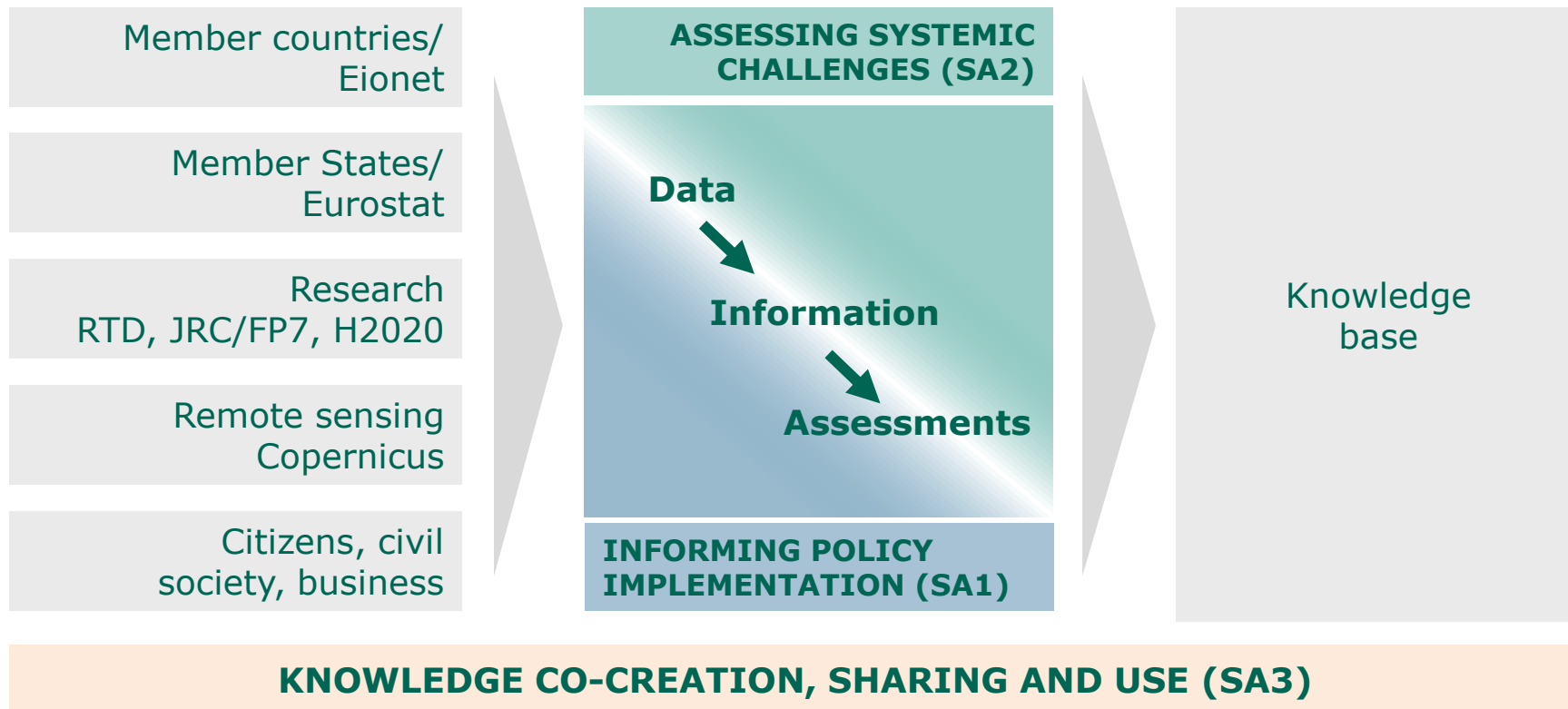
Quality management
and operational
services



Copernicus
operational
services



EEA/Eionet core processes



Emerging opportunities and challenges

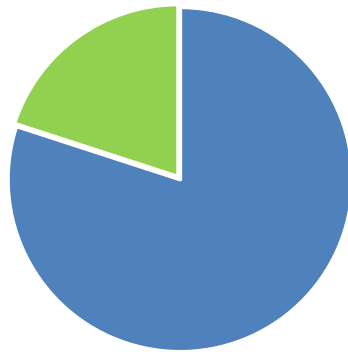
- Growth of **Open Data** activities
- **eGovernment** and economy as a driver
i.e. Single Digital Market
- **Geo-location services**
- **Citizen science** and **crowdsourcing**
- **New ways of monitoring** emerging issues
e.g. human bio-monitoring
- **Data from new providers**
e.g. mobile phone operators
- **Big data**
- **Data protection** and **information security**
- Review of **environmental monitoring and reporting**



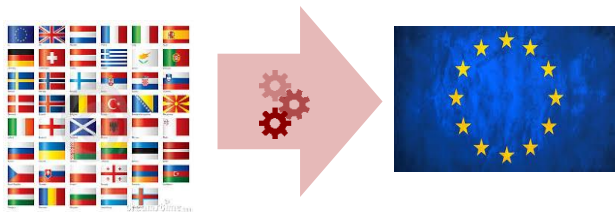
Increasing number of data flows managed by EEA

- 89 regular data flows handled via EEA
- 18 Eionet core data flows
- 60+ non-core data flows
- 40-50 data flows per year (due to different reporting cycles)

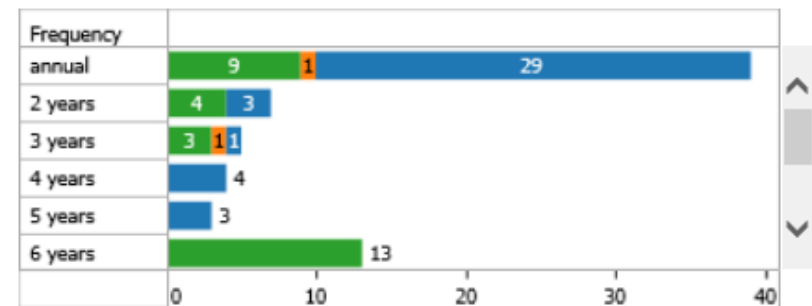
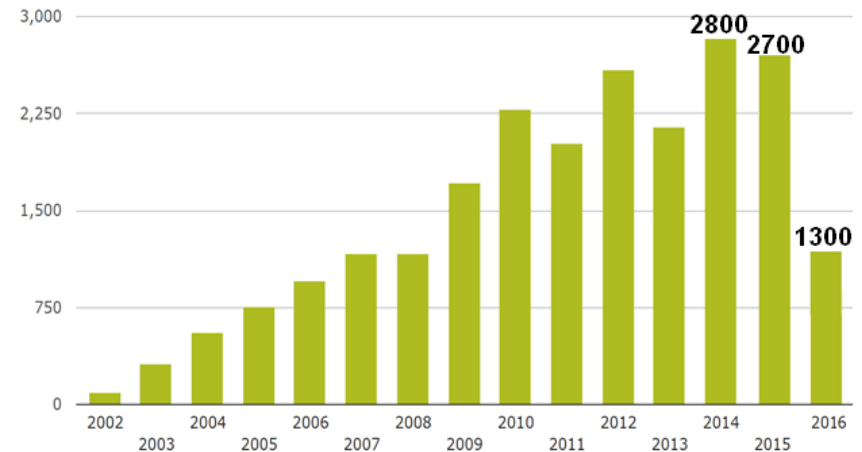
89 regular data flows



■ legislative ■ voluntary



2500+ Data deliveries uploaded yearly by
700+ individual data reporters

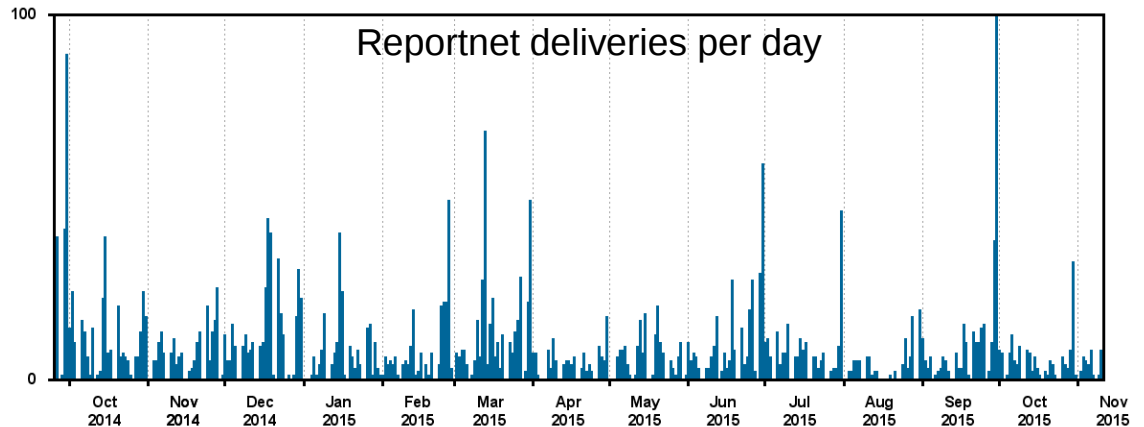
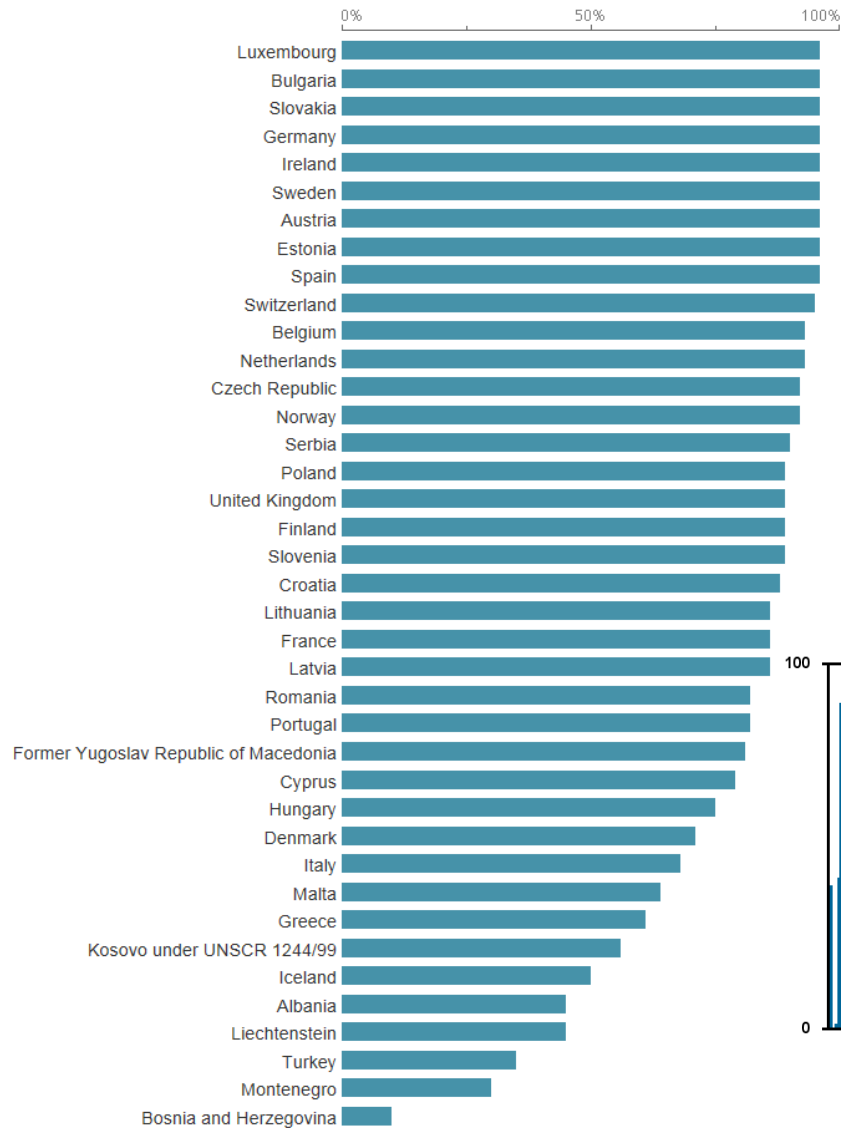


European Environment Agency



Eionet regular performance monitoring

Annual cycle of monitoring and reporting



Use of geospatial reference data

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EuroBoundaryMap (full European coverage) - version 10.0, Feb. 2016

Updated: 3 months ago

EuroBoundaryMap provides a European geographic database for administrative and statistical regions that will be maintained at the source level by the National Mapping and Cadastral Agencies (NMCAs), and by providing harmonized access conditions for this geographic information within the framework of EuroGeographics. EBM (1:100 000) offers the combined strength of detailed European administrative units and linkages to the corresponding LAU and NUTS codes.

Feature catalogue:

- a) Administrative areas (Area controlled by an administrative authority; basic component of administrative units [EBM_A])
- b) Administrative units (Unit of administration where a national authority has and/or exercises jurisdictional rights, for local, regional and national governance [AdministrativeUnit_x])
- c) Administrative boundaries (Line of demarcation between administrative areas [AdministrativeBoundary])
- d) Label points (...)
- e) Residence of Authority (Centre for national or local administration [ResidenceOfAuthority])
- f) NUTS regions (Territorial unit for statistics defined in the framework of the Regulation (EU) No 31/2011 of the European Parliament and of the Council of 17 January 2011 (NUTS ...))

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 Bio-geographical regions (6)	 Elevation (34)	 Energy resources (6)
 Environmental monitoring (12)	 Geographical grid systems (262)	 Habitats and biotopes (162)
 Human health and safety (11)	 Hydrography (56)	 Land cover (136)
 Land use (310)	 Population distribution (11)	 Production and industrial (3)
 Protected sites (47)	 Sea regions (2)	 Soil (33)
 Species distribution (12)	 Statistical units (2)	 Transport networks (1)

EEA internal geospatial data catalogue

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 Biota (159)	 Climatology, meteorology (68)	 Inland waters (31)	 Boundaries (23)	 Feature catalog (3)	 Non geographic data (1)
 Imagery base maps (22)	 Elevation (19)	 Health (14)	 Planning cadastre (10)		
 Utilities communication (7)	 Oceans (7)	 Economy (6)	 Structure (6)		
 Transportation (1)					

Latest news Most popular

 LandScan Global Population Database - version 15, Jul. 2014 <i>Dataset</i>	 EuroRegionalMap (full European coverage) - version 9.0, Jan. 2016 <i>Dataset</i>	 EuroBoundaryMap (full European coverage) - version 10.0, Feb. 2016 <i>Dataset</i>
 EUNIS habitat type B1.7, predicted distribution of habitat suitability - version 1, Jan. 2015 <i>Dataset</i>	 EUNIS habitat type B1.7 distribution based on vegetation plot data - version 1, Jan. 2015 <i>Dataset</i>	 EUNIS habitat type B1-6a distribution based on vegetation plot data - version 1, June 2016 <i>Dataset</i>
 EUNIS habitat type B1-5b distribution based on vegetation plot data - version 1, June 2016 <i>Dataset</i>	 EUNIS habitat type B1-5a distribution based on vegetation plot data - version 1, June 2016 <i>Dataset</i>	 EUNIS habitat type B2.5, predicted habitat suitability - version 1, June 2016 <i>Dataset</i>

Sharing data and information - eea.europa.eu

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The European Environment Agency provides sound, independent information on the environment for those involved in developing, adopting, implementing and evaluating environmental policy, and also the general public. In close collaboration with European Environmental Information and Observation Network and its 33 member countries, the EEA gathers data and produces assessments on a wide range of topics related to the environment. [Learn more](#)



- Air pollution
- Climate change



- Biodiversity — Ecosystems
- Land use
- Soil
- Water
- Marine



- Resource efficiency and waste
- Environment and health
- Policy instruments



- Agriculture
- Energy
- Industry
- Transport



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Maximum historical depletion over the


Production and consumption of


Public awareness


Reported data on large combustion


Mapping EU policies that influence land in


National emissions reported to the


EU progress in meeting emission


State of bathing waters

Featured datasets

The European Pollutant Release and Transfer Register (E-PRTR), Member States reporting under Article 7 of Regulation (EC) No 166/2006

Natura 2000 data - the European network of protected sites

Corine Land Cover 2006 seamless vector data

National Emission Ceilings (NEC) Directive emission inventory data

National emissions reported to the Convention on Long-range Transboundary Air Pollution (LRTAP Convention)

Interactive data viewers

[See all](#)


Reported data on large combustion plants covered by Directive 2001/80/EC

The Directive on the limitation of emissions of certain pollutants into the air from large combustion plants (LCP Directive, 2001/80/EC) applies to combustion plants with a rated thermal input equal ...

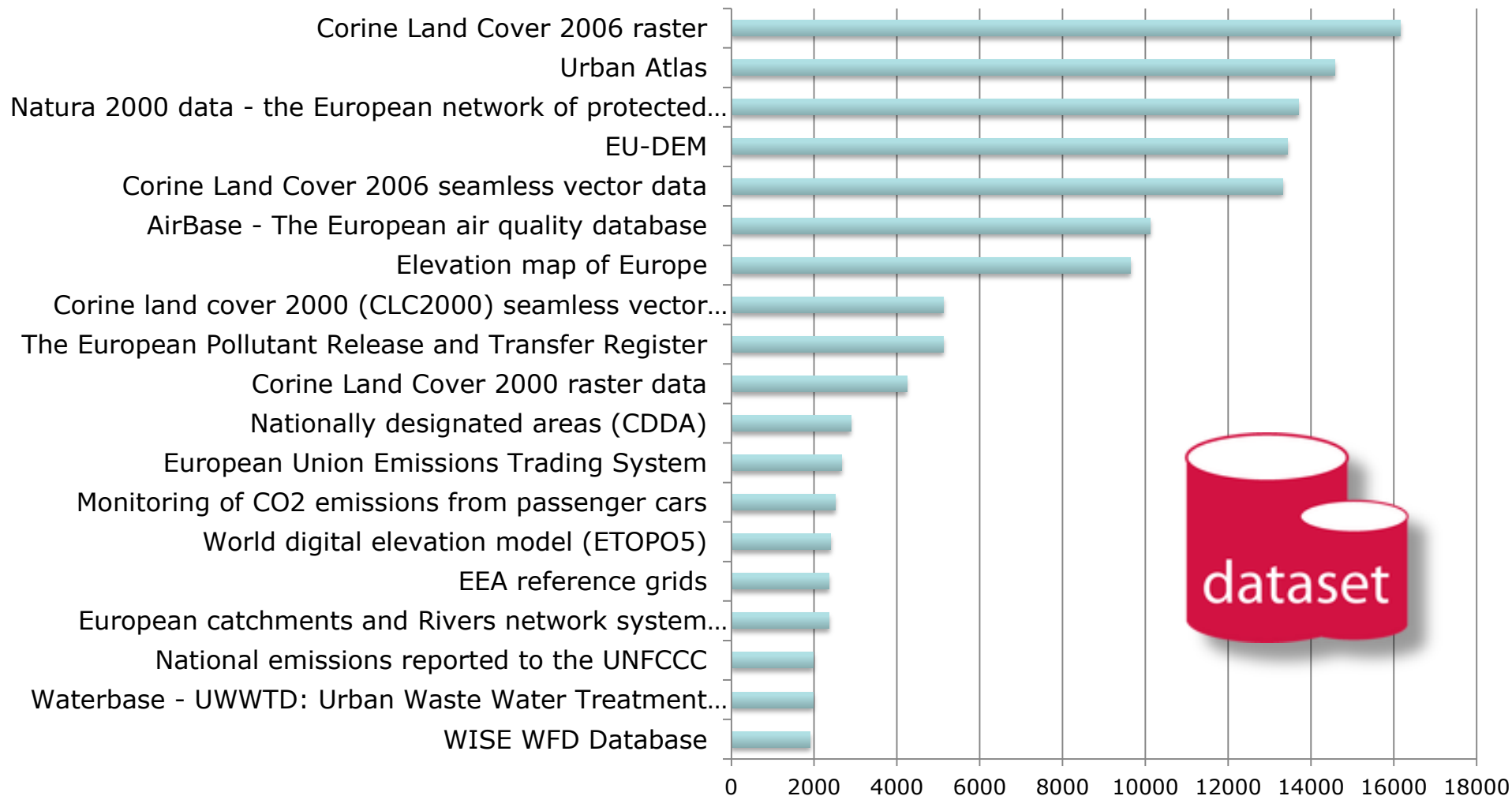
[Read more](#)

<http://www.eea.europa.eu/data-and-maps>

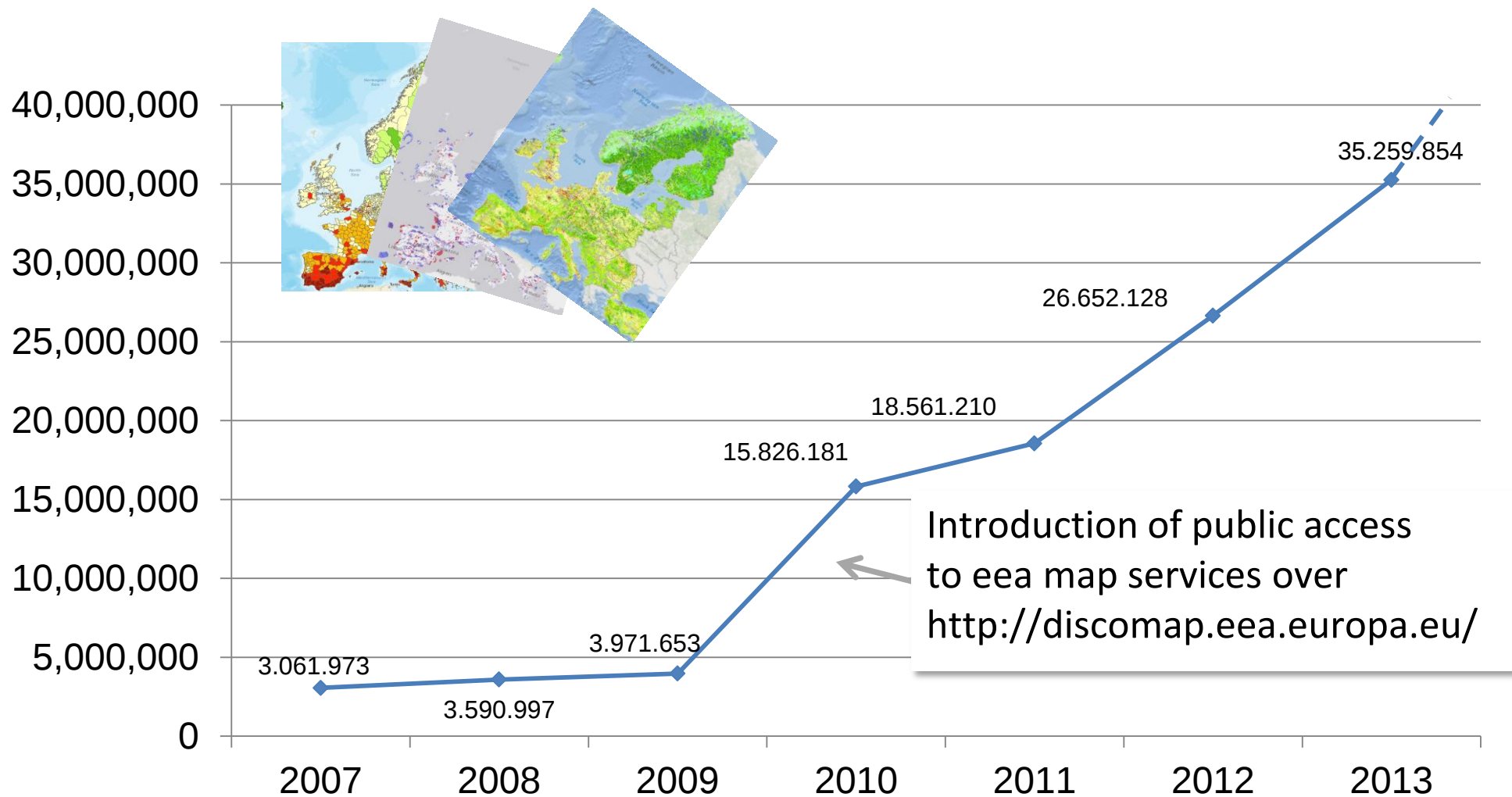
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EEA data download services



EEA data view services



EEA web map services

**DiscoMap**

TOOLSLOG IN





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About

SERVICES BY CATEGORY

WATER

BathingWater	4
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GioLandPublic [copernicus]	12
RiparianZones [copernicus]	3

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Noise	20
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<http://discomap.eea.europa.eu/Index.aspx>



Feeding data and information platforms

Mandate:

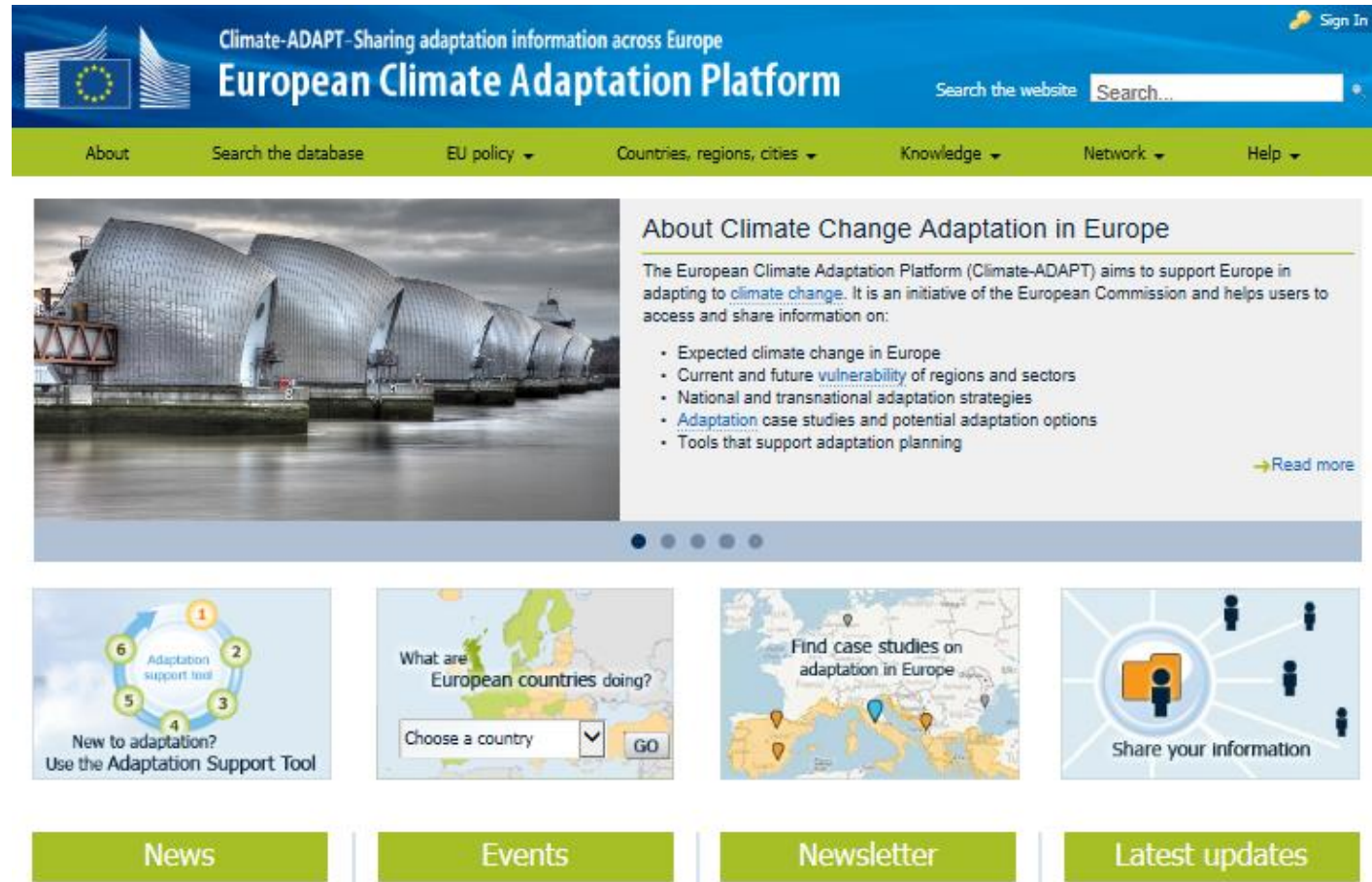
- Launched 2012,
- supports developing and implementing adaptation strategies, policies and actions

Intended Users:

- Experts and decision makers on EU, transnational, national, sub-national levels
- research institutes

Maintenance:

- Funded and carried out by EEA with DG CLIMA, supported by ETC/CCA



Source: Climateadapt.eea.europa.eu

EEA open data policy

EU Open Data Portal

<http://open-data.europa.eu>

The screenshot shows the European Union Open Data Portal interface. At the top, there's a navigation bar with links for Sitemap, Legal notice, Contact, and a language selector set to English (en). Below this is a header with the European Union flag and the text 'European Union Open Data Portal'. A secondary navigation bar includes links for Data, Applications, Linked Data, Developers' corner, and About, along with a 'Data provider's area' link and a 'Share' button. A search bar is prominently displayed with the placeholder text 'Find datasets...'. Below the search bar, there are options to 'Show results with' (all of these words, any of these words, or the exact phrase) and a note that 'Total datasets available: 8627'. A 'Suggest a dataset' section asks if there's data the user wants to find and provides a link to 'Make a suggestion'. The main content area is divided into two columns. The left column, titled 'Most viewed datasets', lists several datasets with their view counts, such as 'DGT-Translation Memory' (10085 views) and 'Elevation map of Europe' (5904 views). The right column, titled 'Browse datasets by subject or groups', features icons for various categories: Employment and working conditions, Social questions, Economics, Finance, Trade, Industry, Education and communications, and Science. At the bottom of this section is a link to 'more subjects'. Below the subject groups is a 'Popular terms' section displaying a word cloud with terms like 'environmental statistics', 'research', 'geospatial data', 'unemployment', 'water', 'statistics', 'agriculture', 'energy', 'entrepreneur', 'consumer protection', 'vector data', 'region', and 'credit ratings'.

European Open Data Portal

<http://www.europeandataportal.eu>

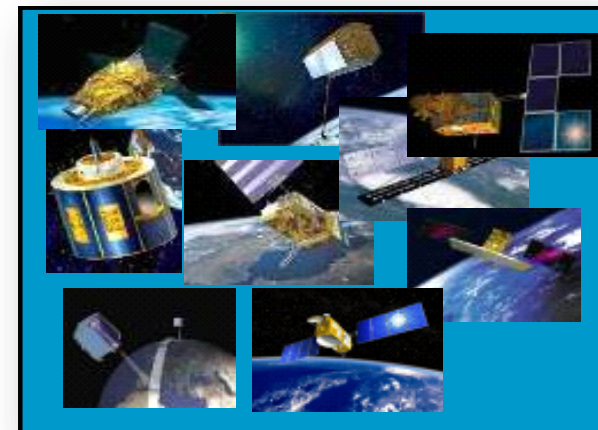
The screenshot shows the European Open Data Portal interface. At the top, there's a navigation bar with links for FAQ, Search, Contact, Cookies, Legal notice, and a language selector set to English (en). Below this is a header with the European Union flag and the text 'EUROPEAN DATA PORTAL'. A search bar is prominently displayed with the placeholder text 'Search Portal'. Below the search bar is a large banner featuring a map of Europe with various flags, titled 'Search Datasets'. A 'Search datasets...' input field and a 'Search Q' button are present, along with a link to 'Advanced Search (SPARQL)'. Below the banner is a navigation bar with links for What we do, Providing Data, Using Data, Library, and Data. The main content area is divided into two columns. The left column, titled 'Latest News', features three news items with dates and titles: 'New funds available for Public Open Data projects', '24/05/2016 TransparencyCamp comes to Europe', and '23/05/2016 Open Data in Croatia'. The right column, titled 'Browse Categories', features icons for various categories: Agriculture, Fisheries, Forestry & Foods, Energy, Regions & Cities, Transport, Economy & Finance, International Issues, Government & Public Sector, Justice, Legal System & Public Safety, and Environment. At the bottom of the page, there are links for RSS and News Archive.



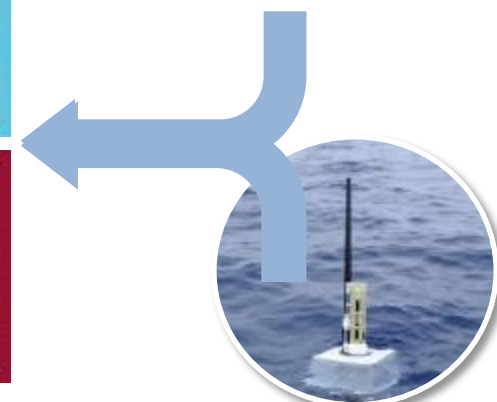
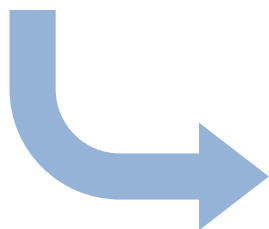
Copernicus – a "game changer" ?



Sentinels

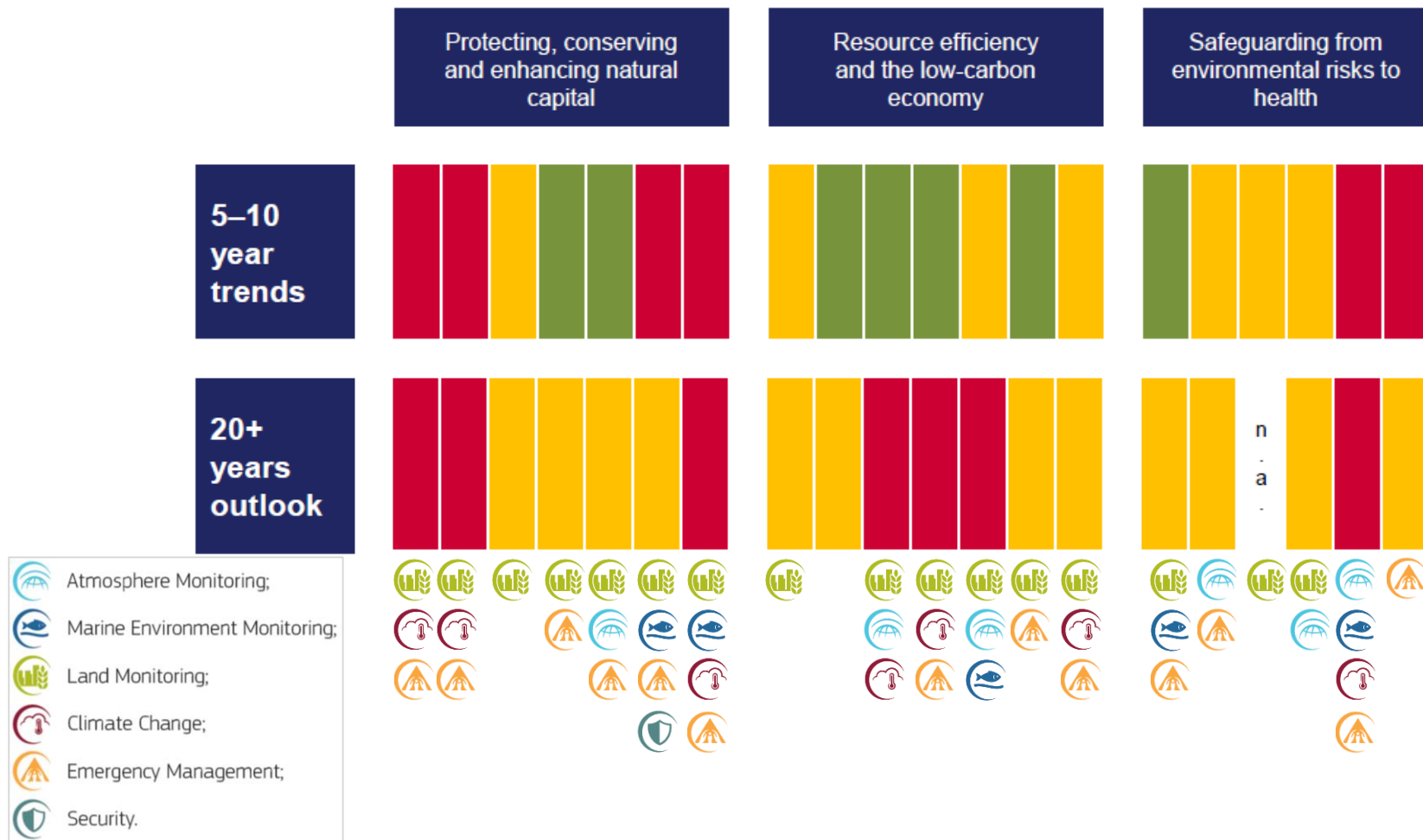


Contributing missions



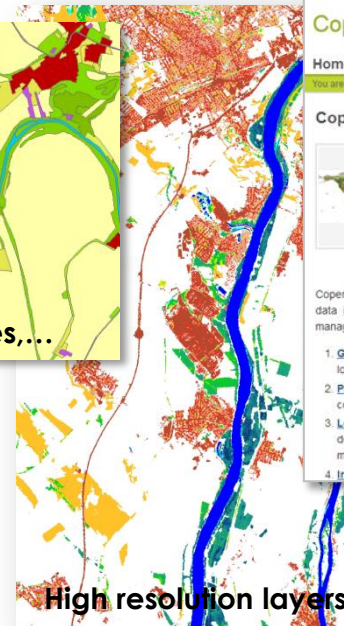
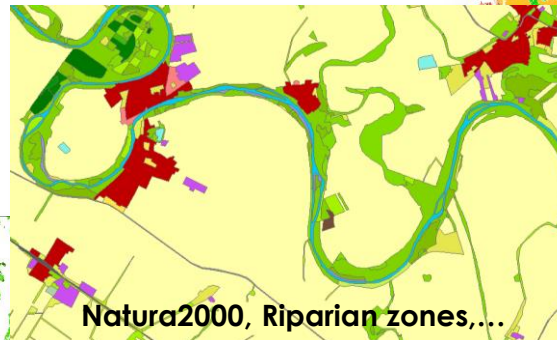
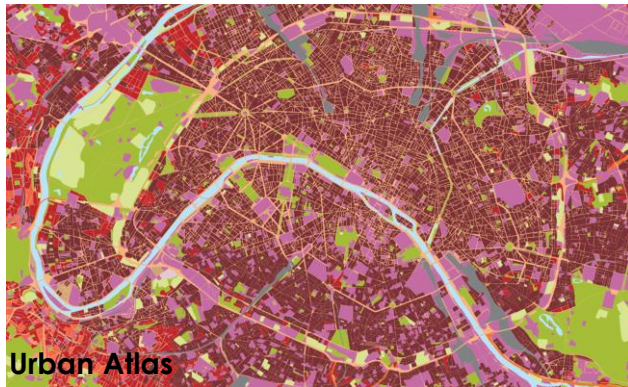
in-situ

Potential use of Copernicus services for SOER



European and Local Land Monitoring service

high resolution layers, soil sealing, green linear features,...



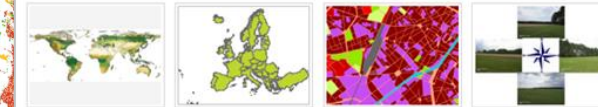
Green linear features

Copernicus Land Monitoring Services

Home Global Pan-European Local In-situ

You are here: Home

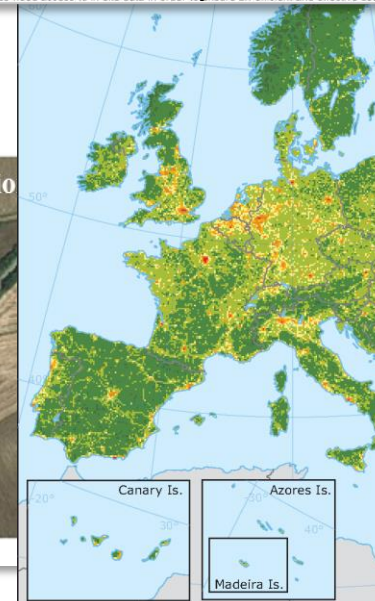
Copernicus - The European Earth Observation Programme



Copernicus is a European system for monitoring the Earth. Data is collected by different sources, including Earth observation data, and is processed and provides reliable and up-to-date information about six thematic areas: land, marine, atmosphere, climate change, environment and security. The land theme is divided into four main components:

1. **Global** The Global Land Service provides a series of bio-geophysical products on the status and evolution of the land, at low spatial resolution. The products are used to monitor the vegetation, the water cycle and the energy budget.
2. **Pan-European** The pan-European component provides information about the land cover and land use (LC/LU), land cover characteristics. The latter includes information about imperviousness, forests, natural grasslands, wetlands, and other land cover types.
3. **Local** The local component focuses on different hotspots, i.e. areas that are prone to specific environmental challenges. It provides detailed LC/LU information for the larger EU cities (Urban Atlas), riparian zones along European river networks and coastal areas.
4. **In-situ** All of the Copernicus services need access to in-situ data in order to ensure an effective and accurate use of the data.

[Land.copernicus.eu](http://land.copernicus.eu)



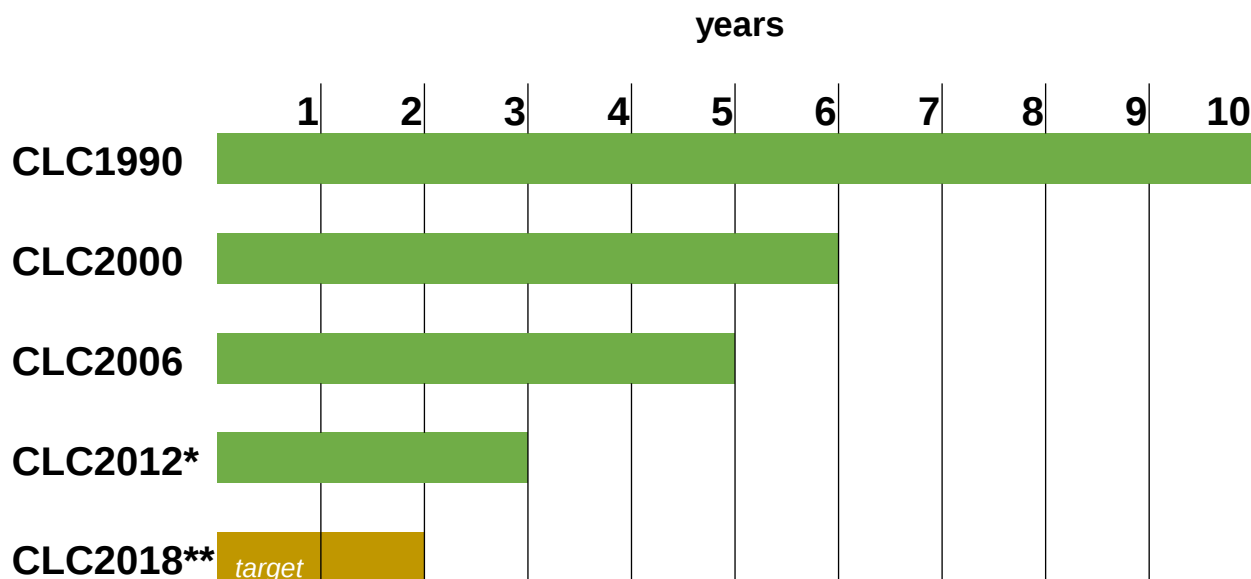
European
Commission

Copernicus
Europe's eyes on Earth

European Environment Agency



Production time European coverage Corine Land Cover



*GIO – GMES Initial Operations

**Copernicus Land Monitoring service

EEA performance indicator MAWP 2014-2018:

"Time span between satellite data acquisition and derived land cover data reduced to one year"



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



Coordinating the Copernicus in-situ component

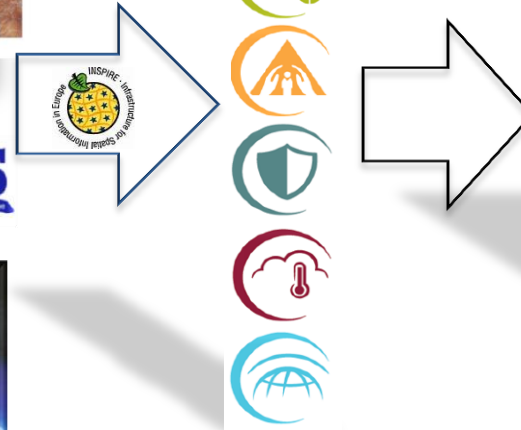
In situ data providers



Copernicus services



Users



European Commission | Copernicus
Europe's eyes on Earth



Thank you for your attention

chris.steenmans@eea.europa.eu

