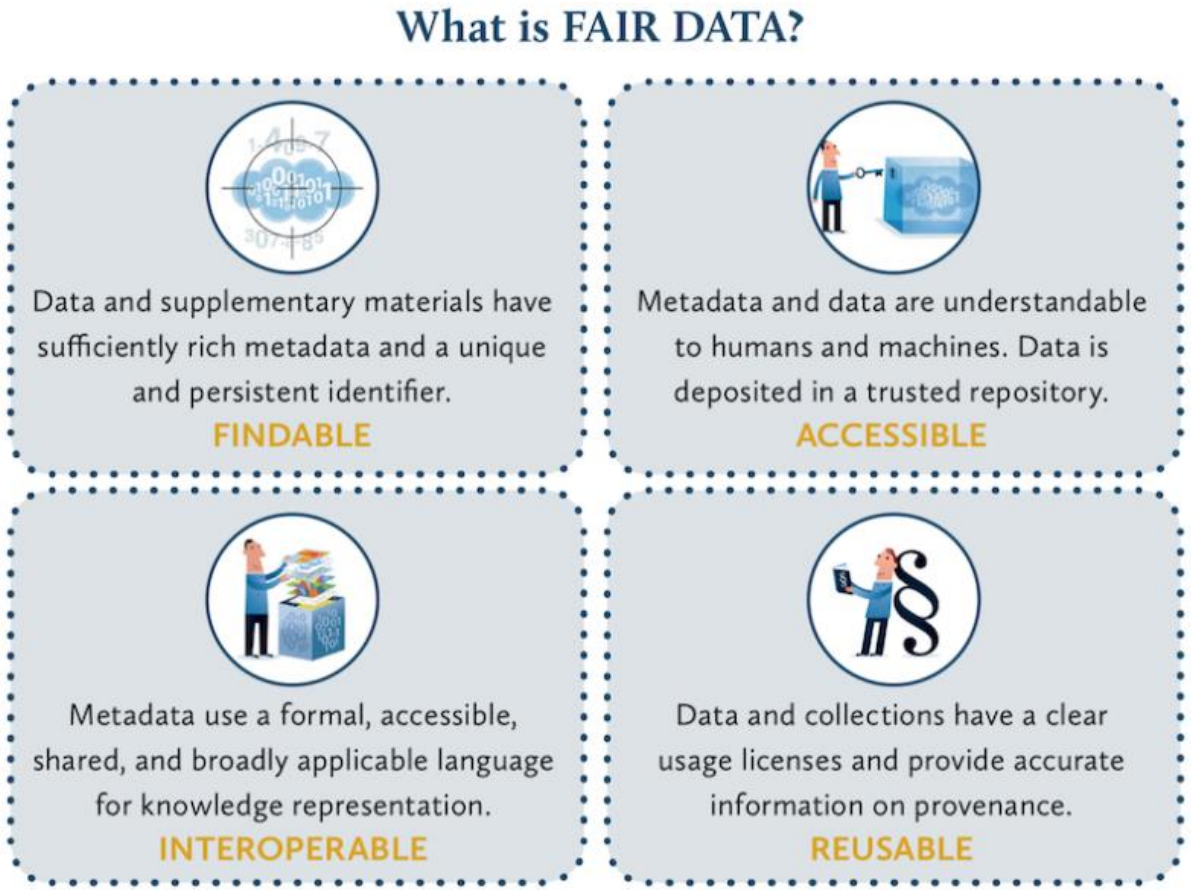
EEA's FAIR future in a green data space

Maturing the data ecosystem

Stefan Jensen | GoPEG webinar 28. February 2023

FAIR data as pre-condition …



EEAs activities around FAIR DATA

High quality, in-depth metadata
in the EEA Spatial Data Infrastructure **(F)**

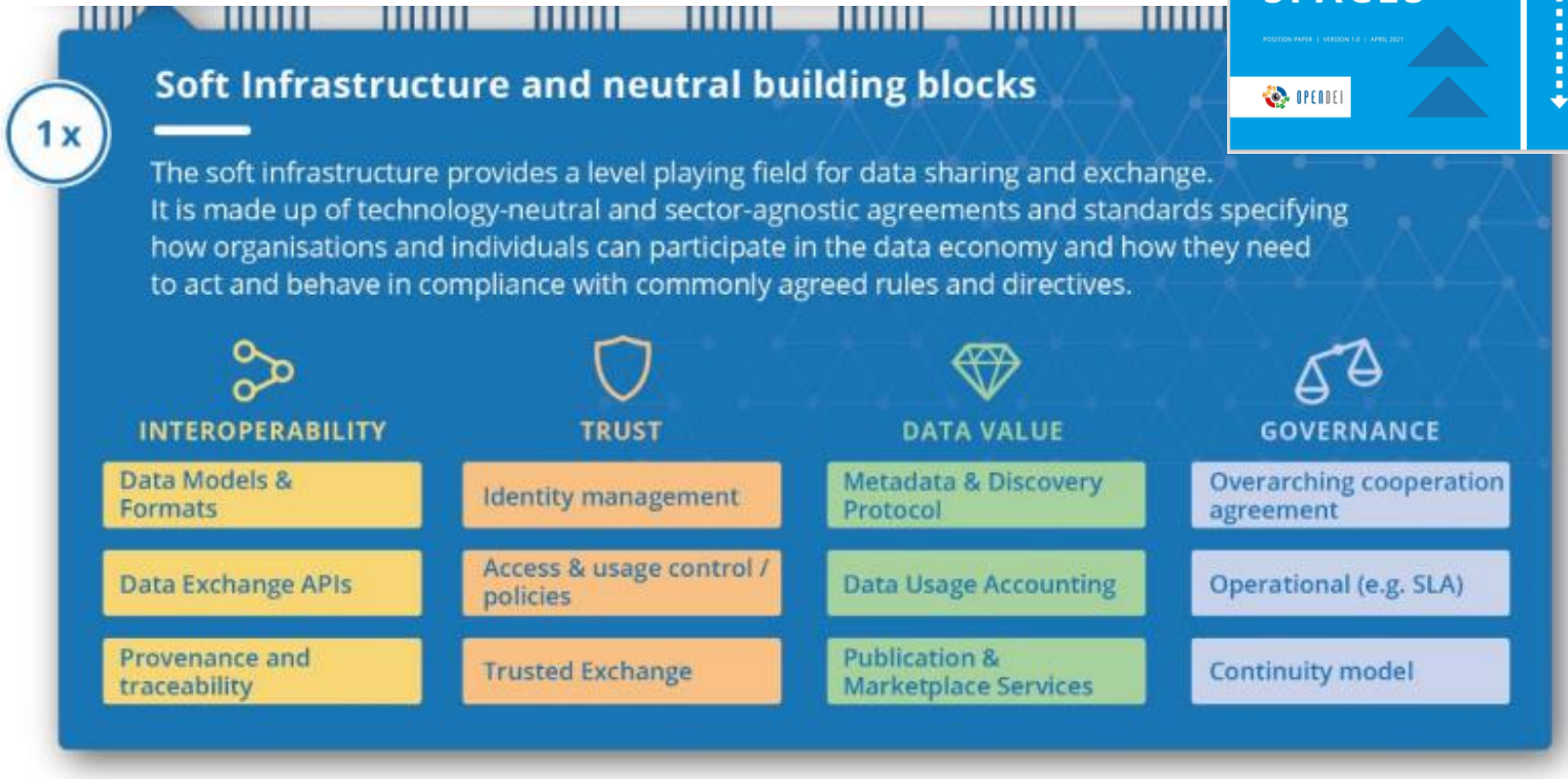
Data available directly through EEA Data Service or accessable through thematic platforms **(A)**

Based on INSPIRE and domain standards **(I)**

Covered by EEAs free and open data policy **(R)**

PS: This is applied beyond research data

… to contribute to Data Spaces



Many similarities:

FAIR principles

Additional:

Trusted exchange,
Identity management,
certification

Clear value proposition
(similar to data management
supported by Reportnet 3)

Specific governance arrangements
(cooperation agreements)

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Our initial FAIR building block – EEA SDI catalogue of geospatial datasets

EEA SDI PDS node

Biodiversity
Biodiversity related datasets

Climate-ADAPT
Climate Change Adaptation related datasets

Copernicus Land
Copernicus Land Monitoring Service Pan-European and Local products

EARL
Environmental Accounting Reference Layers

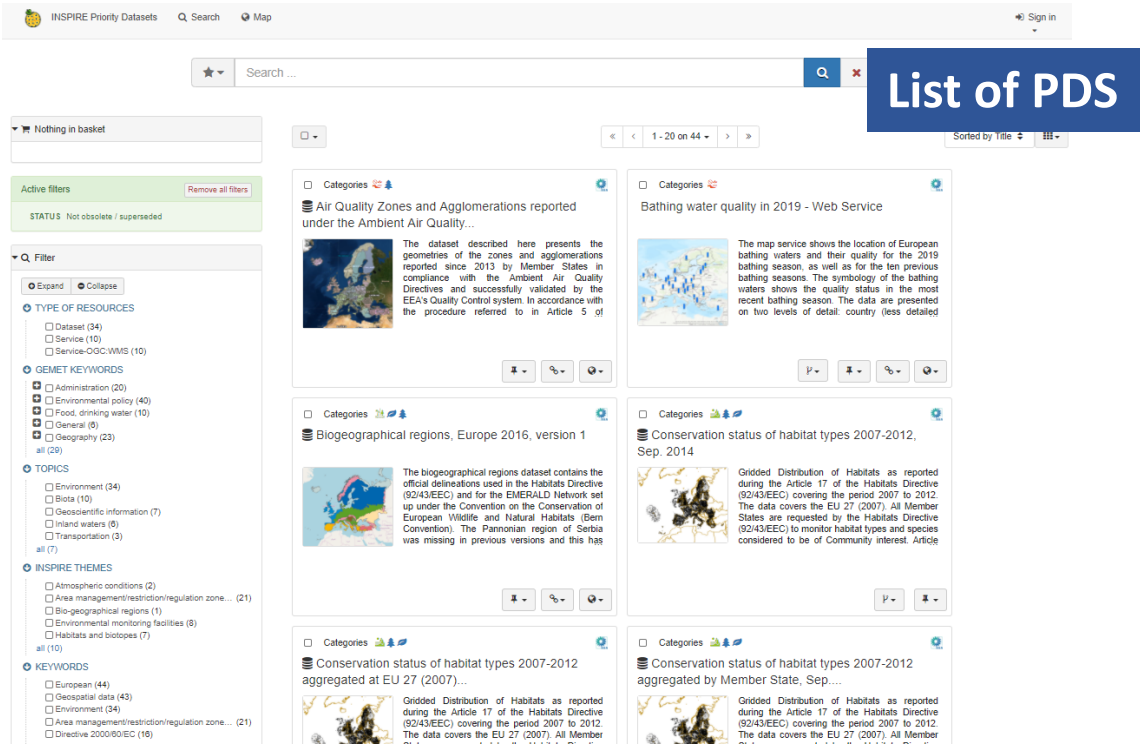
FISE
Forest Information Service for Europe metadata catalogue (BETA)

GEOSS
EEA datasets exposed through the GEOSS portal

Geospatial reference
Datasets for geospatial reference

INSPIRE Priority Datasets
INSPIRE Pan-European priority datasets for e-reporting

List of PDS



- natural areas protection
- protected area
- species

Spatial scope	• European
INSPIRE priority data set	• Natura 2000 sites (Habitats Directive) • Natura 2000 sites (Birds Directive) • Directive 2009/147/EC • Directive 92/43/EEC
Language	• English
Resource identifier	• eea_v_3035_100_k_natura2000_p_2019_v10_r00
Legal constraints	No limitations to public access There are specific terms and condition downloaded boundary data within the United Kingdom. If you

INSPIRE tags

Metadata code list values

Show only valid items — Switch to hierarchy view

Label	Legislation	Parent	Governance level	Status
Actual pollutant releases (European Pollutant Release and Transfer Register)	Regulation (EC) 166/2006	Regulation (EC) 166/2006	eu-technical	Valid
Agglomerations (Air Quality Directive)	Directive 2008/50/EC	Management zones and agglomerations (Air Quality Directive)	eu-technical	Valid
Agglomerations (Noise Directive)	Directive 2002/49/EC	Directive 2002/49/EC	eu-technical	Valid
Agglomerations (Urban Waste Water Treatment Directive)	Directive 91/271/EEC	Directive 91/271/EEC	eu-technical	Valid
Agglomerations - aircraft noise exposure delineation (Noise Directive)	Directive 2002/49/EC	Environmental noise exposure (Noise Directive)	eu-technical	Valid
Agglomerations - aircraft noise exposure delineation - night (Noise Directive)	Directive 2002/49/EC	Agglomerations - aircraft noise exposure delineation (Noise Directive)	eu-technical	Valid
Agglomerations - aircraft noise exposure delineation day-evening-night (Noise Directive)	Directive 2002/49/EC	Agglomerations - aircraft noise exposure delineation (Noise Directive)	eu-technical	Valid
Agglomerations - industrial noise e	Directive 2002/49/EC	Environmental noise exposure (Noise Directive)	eu-technical	Valid
	/49/EC	Agglomerations - industrial noise exposure delineation (Noise Directiv	eu-technical	Valid

INSPIRE Registry

Data spaces – room to engage and further define

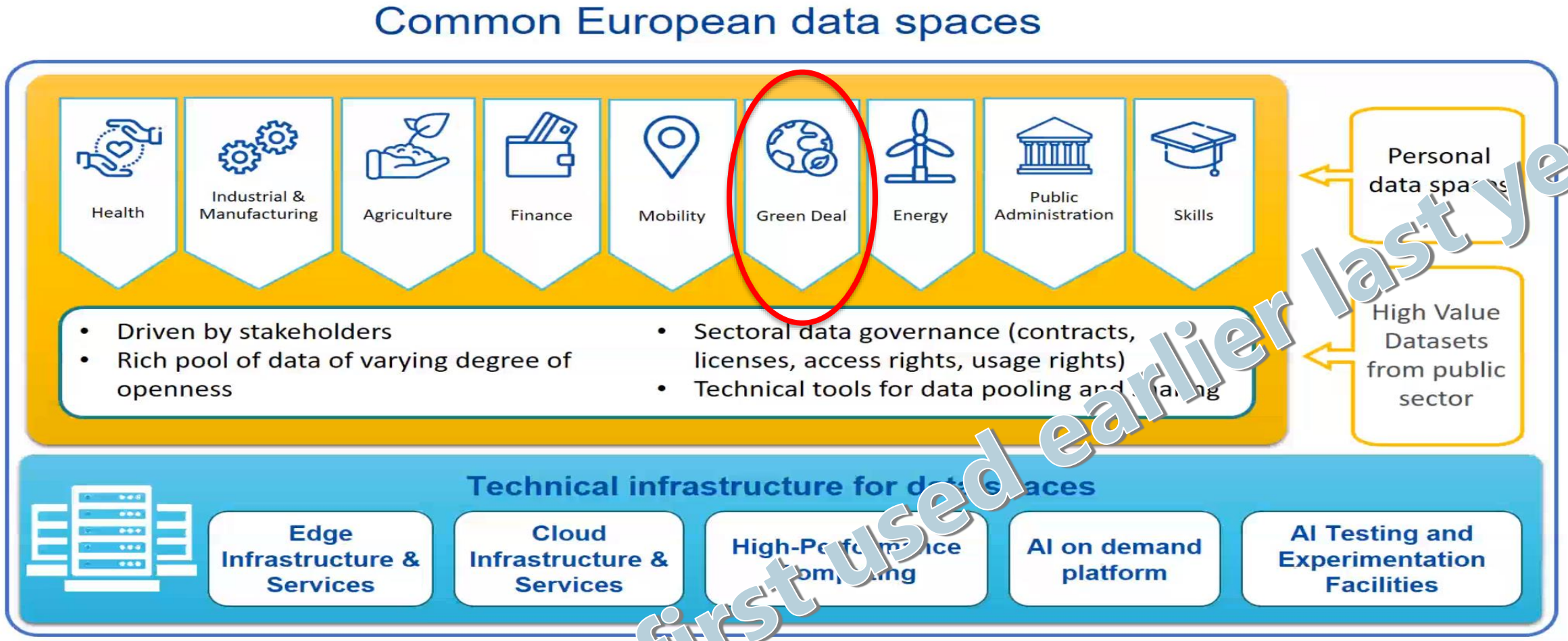
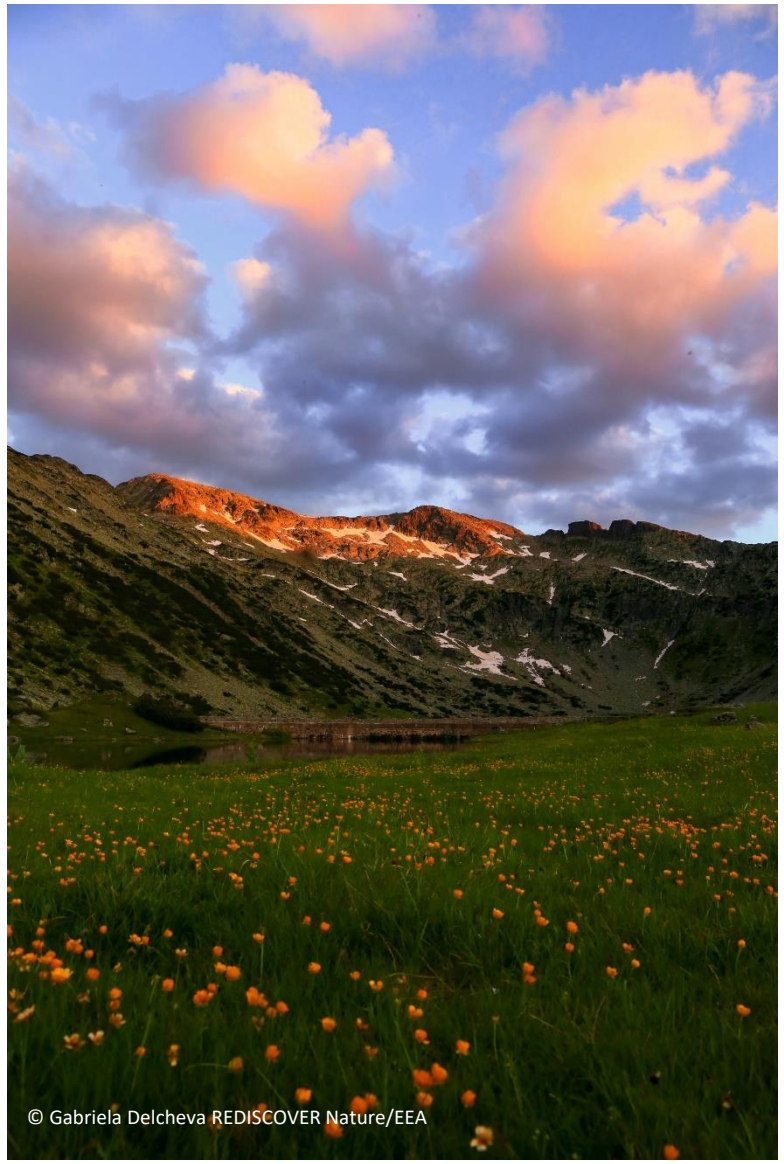


Image courtesy: European Commission

Slide first used earlier last year

Including e.g.: Open Science data cloud, Copernicus DIAS, GAIA-X federated platform

Evolution of EEAs future data ecosystem



EEA SDI – **EEA data hub** (3/2023)

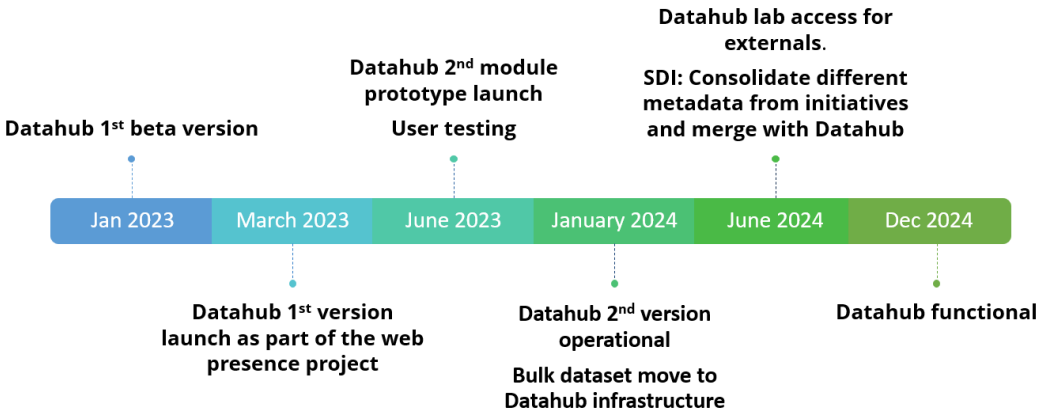
EEA/Eionet thematic Information platforms - **EEA integrated information systems** (2023/2024)

CLMS website - WEkEO services - **Copernicus Land Data Store** (2024)

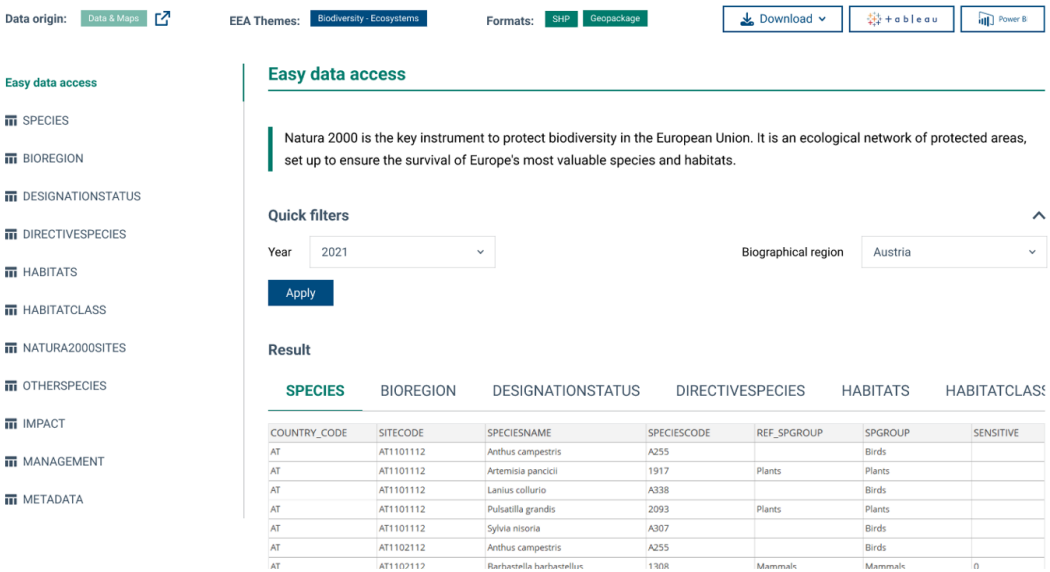
Reportnet 2 - **Reportnet 3** (since 2021)

EEA data hub – find and access all (spatial and non-spatial) EEA data

Datahub implementation roadmap



Find



Access and explore

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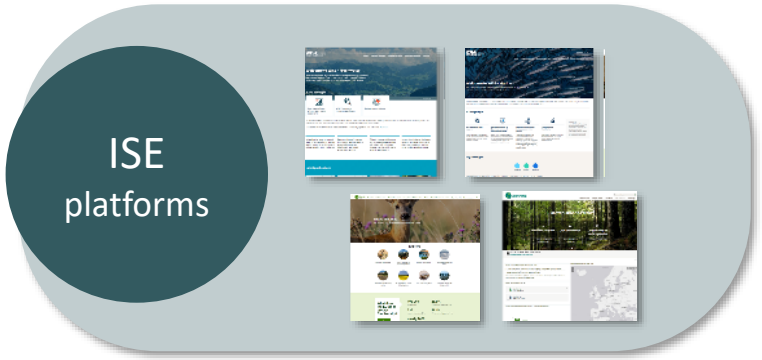
Creating the family of integrated information systems - roadmap

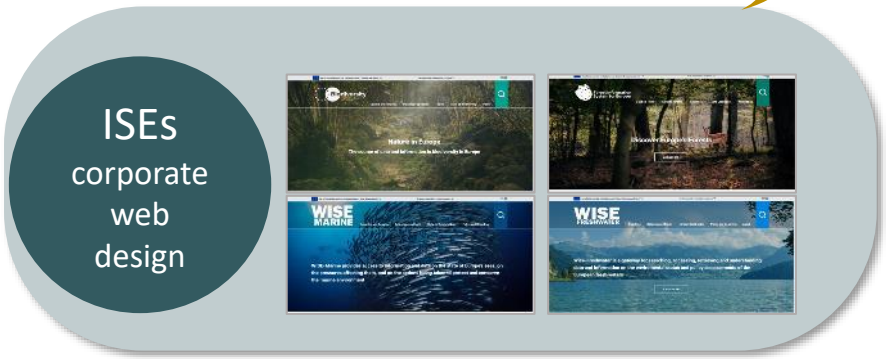
In 2022, the EEA started working to the Flagship product ”Integrated Information systems”, focused on the integration and harmonization of four existing environmental information systems: BISE (for biodiversity), FISE (for forests), WISE marine and WISE freshwater co-owned and managed with the European Commission



Continue ensuring:
- Completeness
- Correctness

Integrated assessments

Thematic contribution



Still separated but:
- presented as a family
- allowing a seamless narrative and user experience

Data and tools

Policy assessments

Data integration

The ISEs are a family accessing and disseminating:
- Data (catalogues)
- Country Profiles
- Case studies
- Policies

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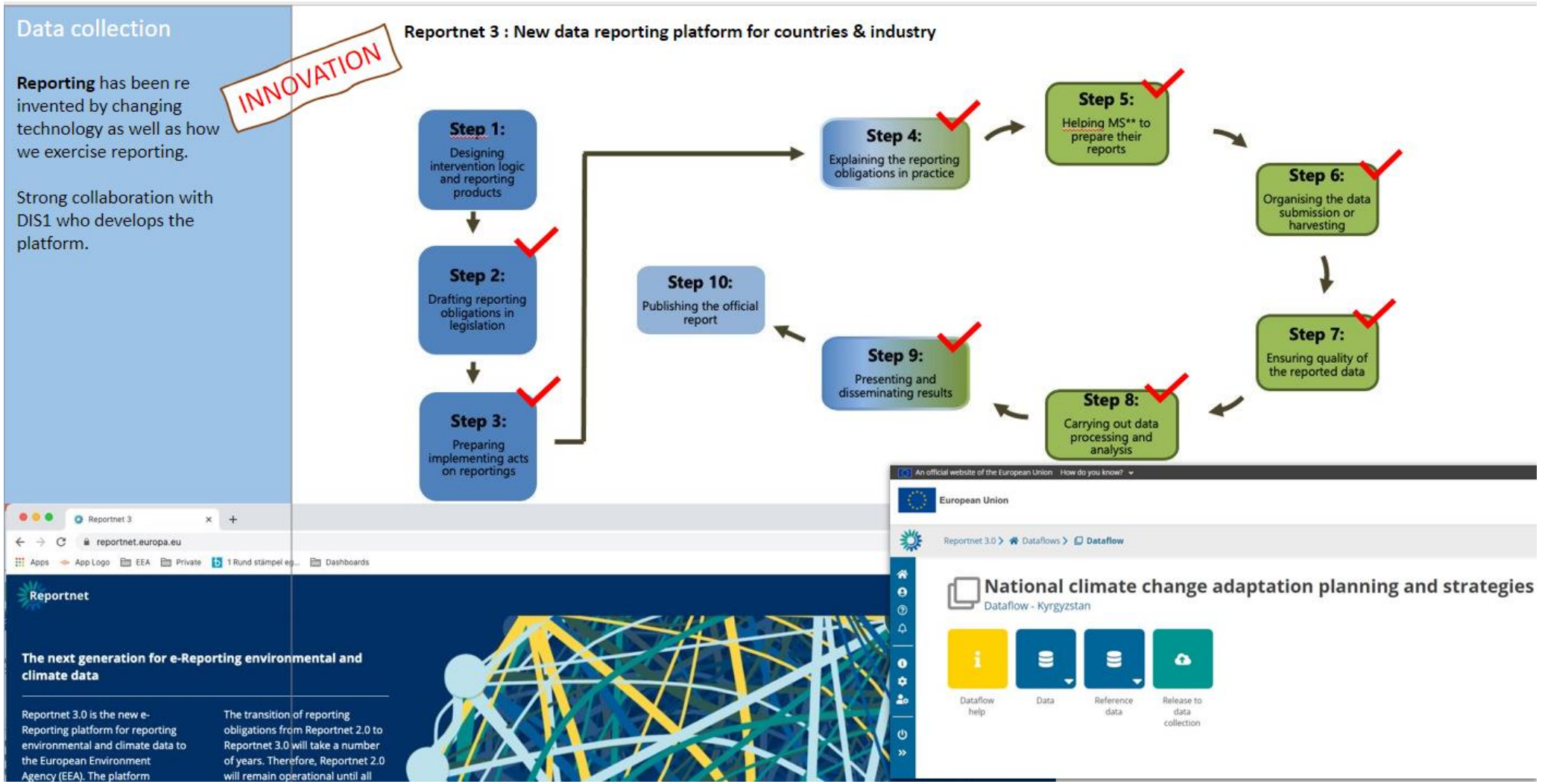
Modernising and automating the data value chain – Reportnet 3



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Developing the Copernicus Land Data Store

Purpose:

Simplify the work with cloud based big-geo-data:

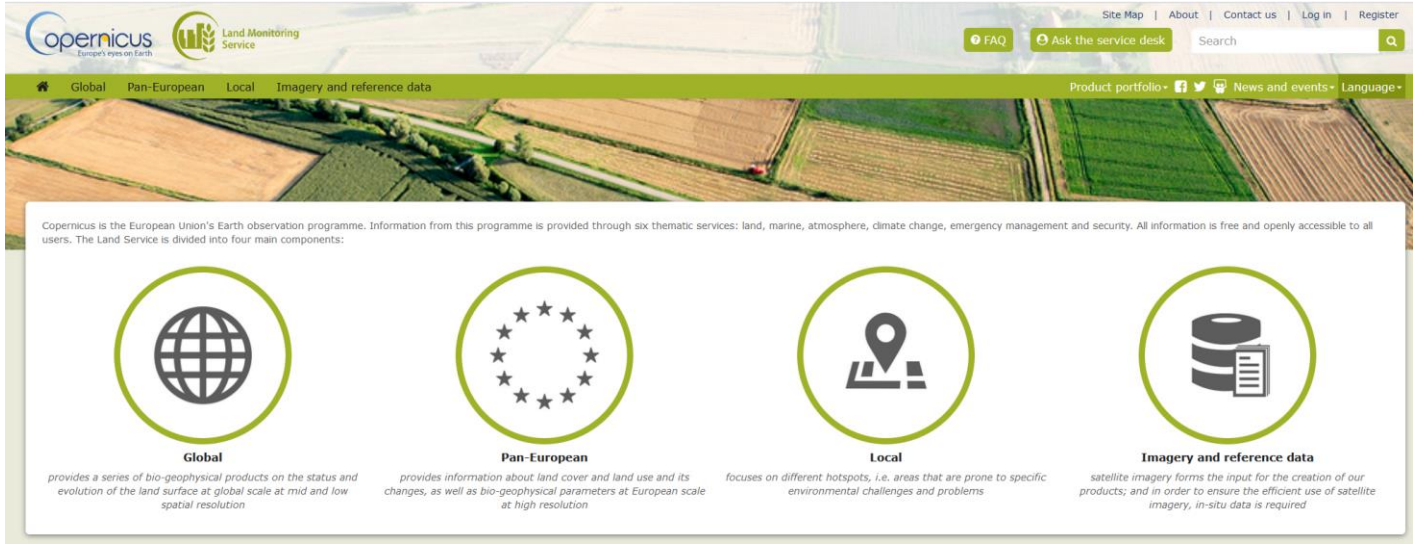
- Harmonised access to a wide range of geo-data (including in situ)
- Provide production and exploitation facilities (Reduce cloud/big data related complexity)

Complementing WEkEO

(raw data access and analytics)

and the CLMS portal

(product information and distribution)



Schedule:

- 2023: asses user requirements, prepare technical specifications
- 2024: development and planned launch

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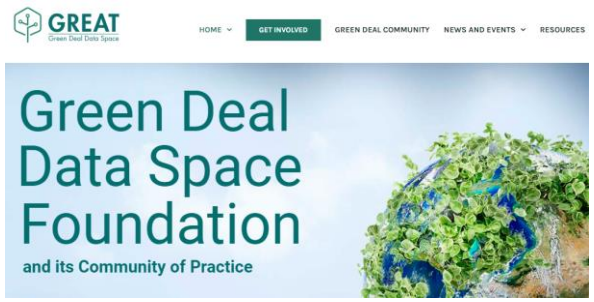
Other EEA contributions to the Green (Deal) Data Space

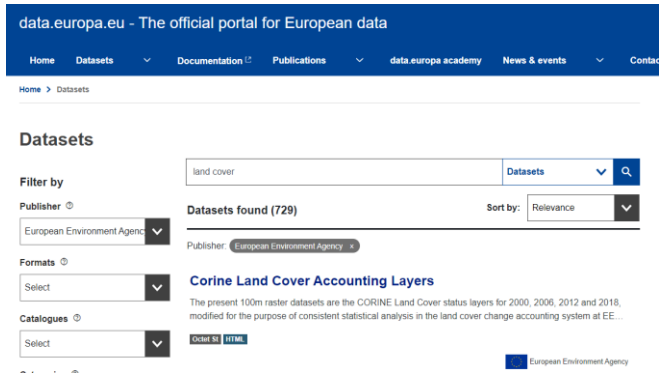
Co-chairing **EU Green Data Task force** (Members DG ENV, CLIMA, RTD, JRC, ESTAT, AGRI, DEFIS, FISMA, EEA)

- Governance and data policy check
- Establish Green data inventory
- Green data user needs and requirements (based on pilots prioritised by EKC) Zero pollution, EuroGEO, IACS, Citizen Science …

<u>To be continued!</u>

Providing input from the EU institutional side to the <u>GREAT project</u>





Providing real time data sharing to the **EU data portal** (to be set up in 2023)

… and then whatever is more to the **Green Deal Data Space**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Thank you