

WEBINAR

Data spaces: experiences from the European Green Deal

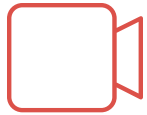
The logo for Data Europa Academy, featuring the text "data.", "europa", and "academy" stacked vertically. The word "data." has a small orange dot above the 'a'. The word "europa" has a small orange dot above the 'o'. The word "academy" is in a smaller font size. The logo is positioned within a dark blue circular area that is part of a larger graphic design consisting of overlapping circles in various shades of blue and a white circle.

data.
europa
academy

15 March 2024

10.00 — 11.30 CET

Rules of the game



The webinar will be recorded



For questions, please use the ClickMeeting chat.



Please reserve 3 min after the webinar to help us improve by filling in our feedback form

Our speakers



Carlos Martins Ferreira
Knowledge Management,
Data.europa.eu



Sotirios Kanellopoulos
DG Environment - Policy
Officer - Data and ICT for
environmental sustainability



Nevena Raczko
Senior Consultant at IDC's
European Government
Consulting unit



Albana Kona
Scientific Officer at the
European Commission, Joint
Research Centre



Margherita Di Leo
Senior Consultant at
European Commission, Joint
Research Centre

Green Deal Data Space – Call for proposals -Use-cases

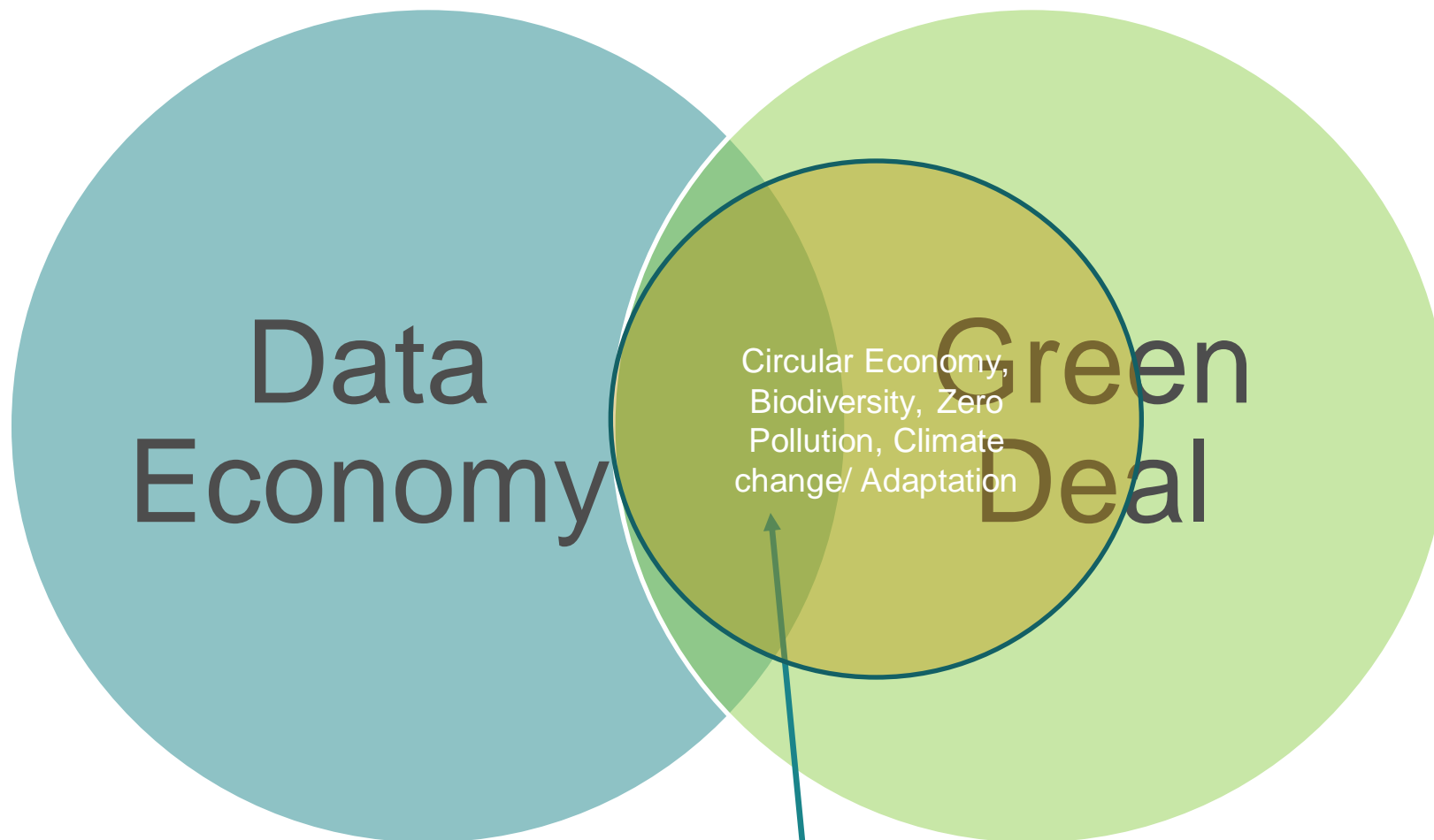
2024 March 15 – DG DG ENV

sotirios.kanellopoulos@ec.europa.eu

#

Policy Officer

The scope of the **European Green Deal Data Space**



Green Deal Data Space

Call #DIGITAL2024CLOUDAI06GREENDEAL

| Timetable and deadlines (indicative) | |
|--------------------------------------|---|
| Call opening: | 29 February 2024 |
| <u>Deadline for submission:</u> | <u>29 May 2024 – 17:00:00 CEST</u> <u>(Brussels)</u> |
| Evaluation: | June-July 2024 |
| Information on evaluation results: | July-August 2024 |
| GA signature: | February 2025 |

Call – Objective

Deploy an operational Green Deal Data Space (GDDS)

- The action is expected to deploy a **technical infrastructure and governance mechanism** for the GDDS with **related use cases**
- The action should enable **reusing and sharing data from existing relevant private and public data ecosystems**, which will feed new services and applications that **contribute to** reaching the objectives of the **Green Deal**
- The action should **take into account** the latest developments in the data strategy and green deal landscape, in particular:
 - Results of the **DIGITAL [GREAT](#)** project regarding preparatory actions for the Green Deal data space
 - Results of relevant HORIZON EUROPE projects to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions ([AD4GD](#), [B-Cubed](#), [FAIRiCUBE](#), [USAGE](#))

Use-cases for the EGGDS

- This Call invites you to structure your proposals **around use-cases**
- The call has **identified 3 use-cases of Interest** – linked to some of recent European Commission policy initiatives
- **These 3 use-cases of interest are not restrictive.**
- **“Any Data Space use-case** whose principal value lies in at least one of the four focus areas is in scope”



Biodiversity



Circular Economy

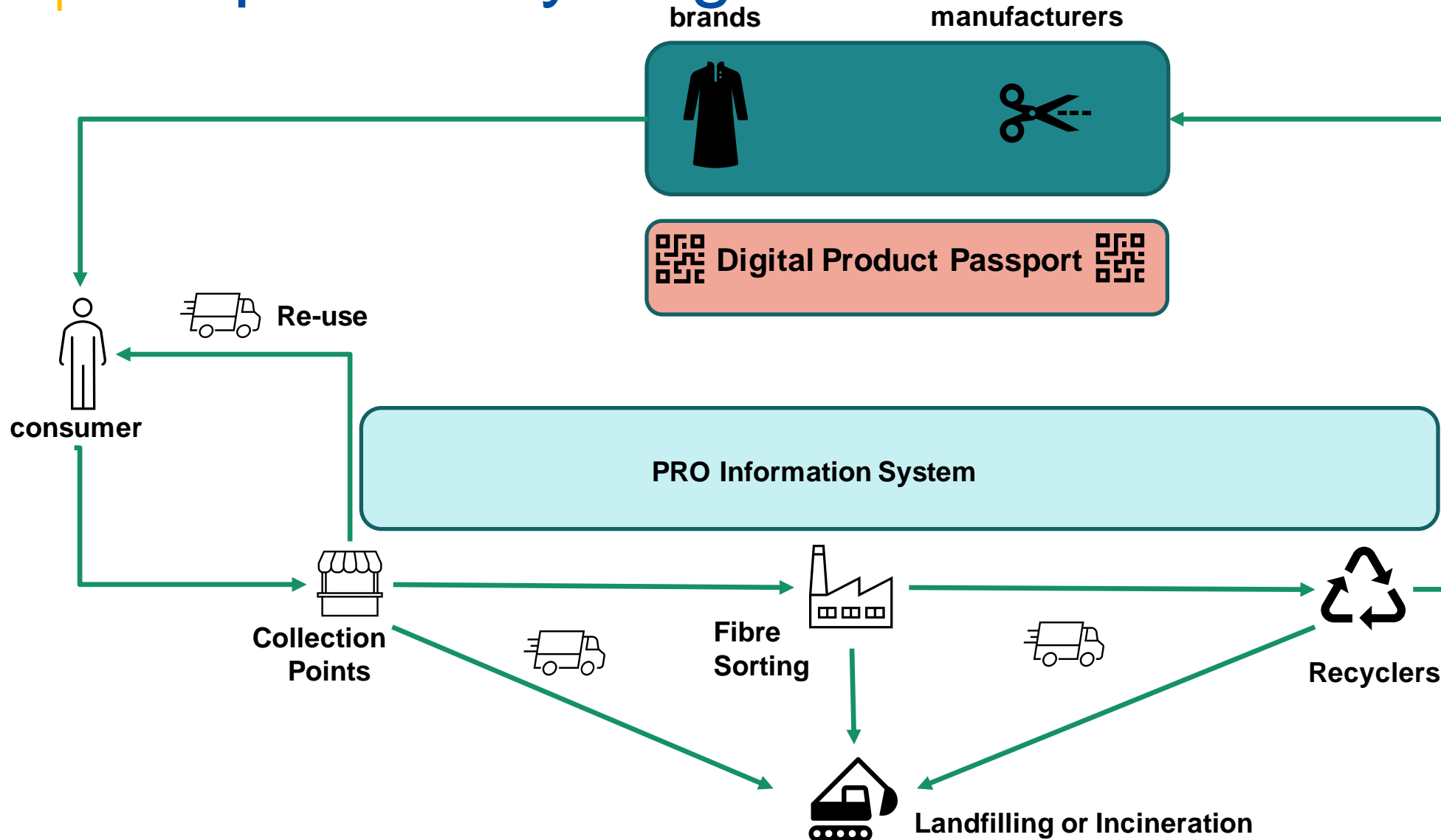


Zero Pollution



Climate change

Use Case 1: DPP-ready Producer Responsibility Organization Information System



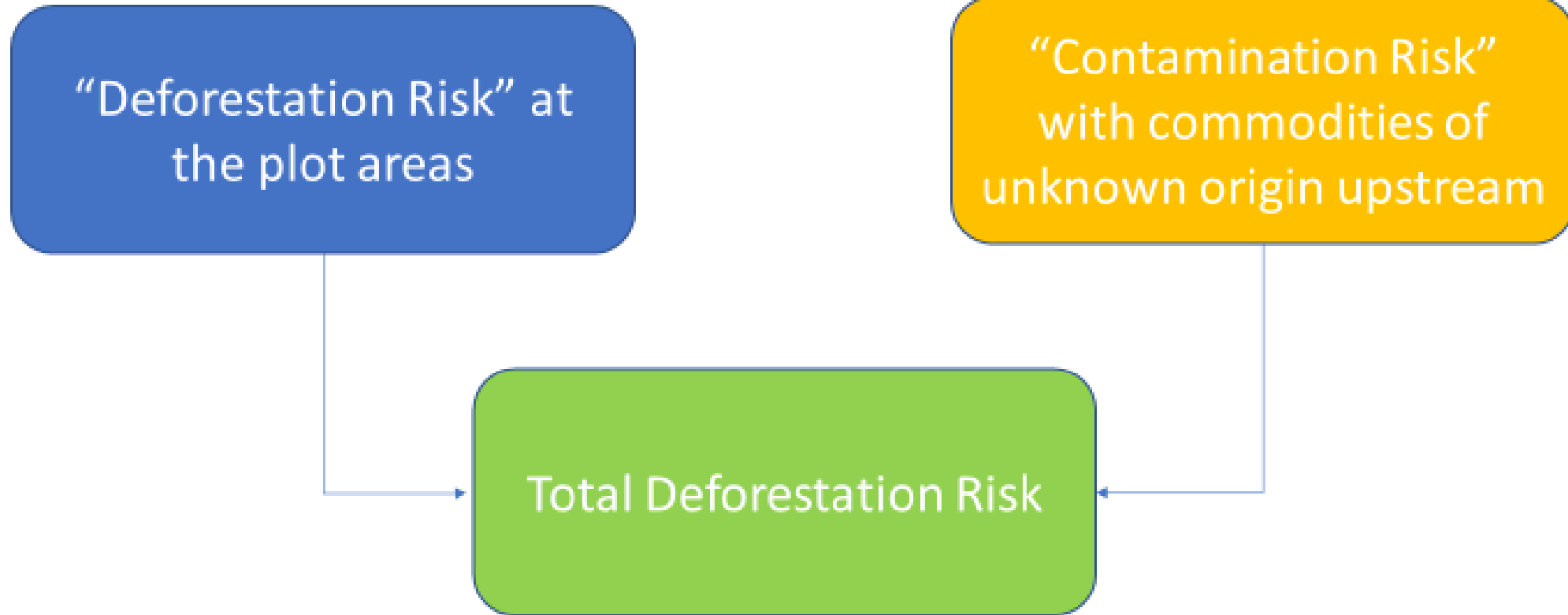
The “combined” DPP/ PRO-IS forms a Data Space: examples of value creation

- **Life duration of textiles**
- **Waste flows at brand level**
- **Which data to feed-back to the DPP of newly manufactured products**
- **High granularity data in the sorting reports attached to shipments for re-use**
- **Ideas about how to leverage the data/ capacities of DPP in the context of a Data Space are welcome. Be it textiles or other value chains**

Use Case 2: “due diligence” systems for companies supply chains

- **private operators** care more and more about their **own environmental and sustainability performance**.
- This is either due to the **imperative for compliance** to legislations like the Corporate Sustainability Reporting Directive , EU Deforestation Regulation or the Ecodesign for Sustainable Products Regulation
- Or due to the **pursuit of competitive advantage** in the sustainability race.
- This CFP aims to **fund infrastructures/ applications** that help private operators in their reporting/ sustainability journey and create value

Use-Case 2 :Due Diligence for deforestation free products



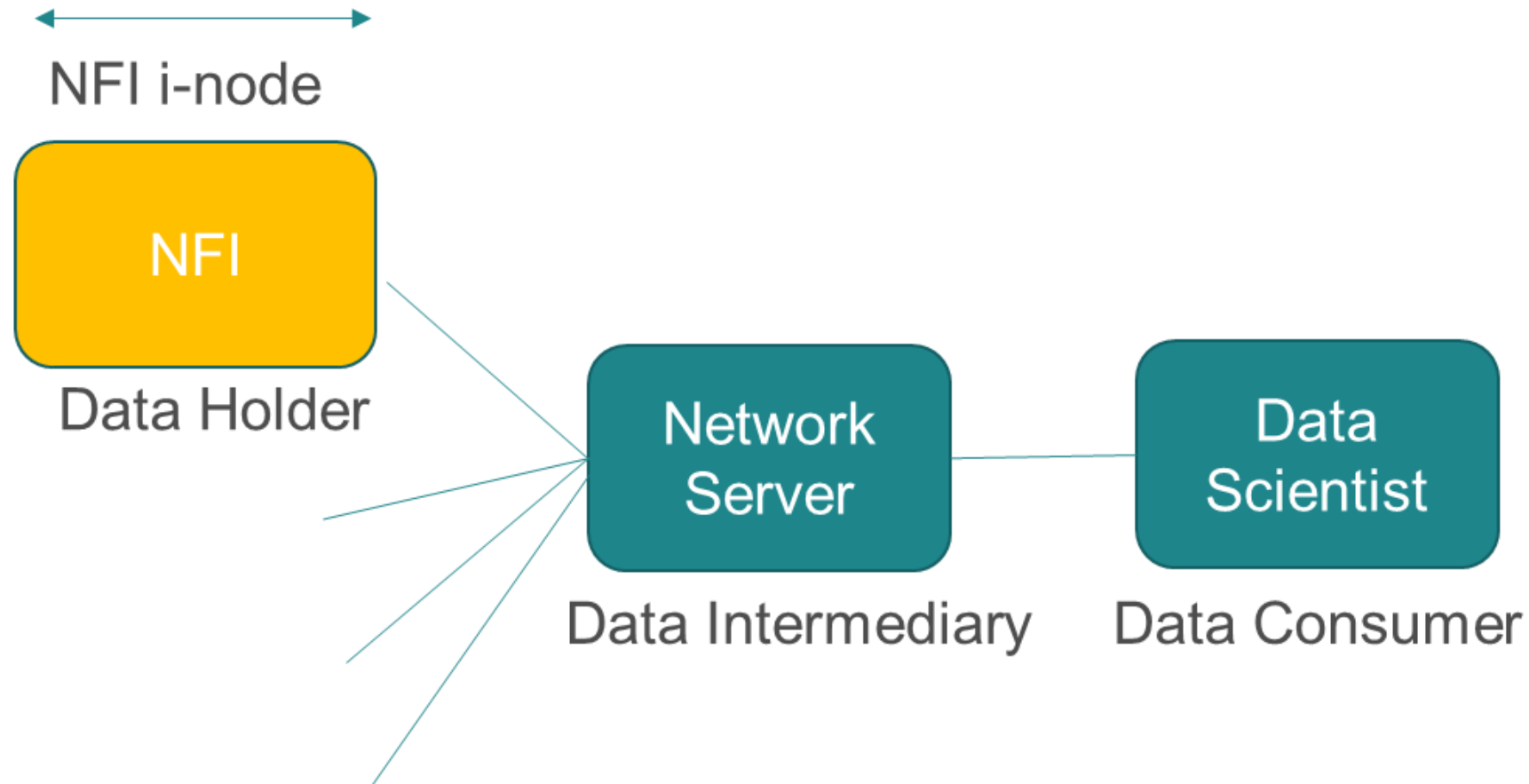
Use Case 2: “due diligence” systems for companies supply chains

- Regardless if you have **already invested** in a due diligence system and have already a beta version and look to invest further or **you are starting to invest now**, we think that the Green Deal Data Space is an interesting program for you.
- Where the imperative to **disclose upstream in the value chain** with other private operators collide with the need to **protect commercially confidential information**, applicants should propose digital solutions and protocols resolving such tension
- Applicants are encouraged to explore ways that data collected and shared in the context of due diligence can be **used as a product** for creating further value and propose potential business models

Use-case 3: National Forest Inventories and confidentiality preserving technologies

- The **National Forest Inventories**
- In contrast to the previous use-cases, in this one data (NFIs) are used as “**ground-truth data**” for training and validating ML models for forest monitoring
- Our proposal for a Forest Monitoring law has a provision for **Confidentiality Preserving Safeguards** to protect confidential attributes of NFIs and ensure **data re-use**
- While the decision making process is ongoing, this use-case is about the **technological elements of those safeguards**
- This CFP is asking for A **Confidentiality Preserving Infrastructure** that allows to access NFI data for training ML **without compromising the confidentiality constraints**

Use-case 3: National Forest Inventories and confidentiality preserving technologies



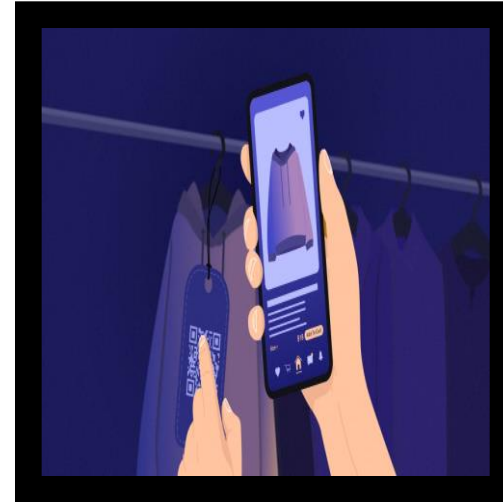
Use-cases demonstrating synergies are encouraged



Thematic Data Spaces



Destination Earth



Digital Product Passport



Local Digital Twins

Acknowledgments

- **Directorate General Environment**
 - D1 Land Use & Management
 - B3 From Waste to Resources
 - B4 Sustainable Products
- **Directorate General Communications Networks, Content and Technology**
 - E4 Internet of Things
- **Joint Research Centre**
 - D1 Forests & Bioeconomy
 - T1 Digital Economy

Outcomes and deliverables

- A governance structure for the GDDS
- A GDDS data-governance algorithmic mechanism
- A GDDS technical infrastructure for operating the selected use cases
- High-value, reusable datasets relevant for the selected use cases and more broadly the focus areas •
- A stakeholder mapping analysis of those who could join the data space after the end of the project.
- A set of concrete policy recommendations that will complement digital solutions in the implementation of the selected use cases.
- Operational / Financial Sustainability of the GDDS

Call – Key Features

- Type of action: **Simple grant**

Simple Grants are a flexible type of action used by a large variety of topics and can cover most activities. The consortium will mostly use personnel costs to implement action tasks, activities with third parties (subcontracting, financial support, purchase) are possible but should be limited

- Maximum grant amount: **8 mln EUR** per project
- Funding rate: **50%**
- Reimbursement certain types of eligible **costs** that were **actually incurred** for the project (not the budgeted costs).
=> see budget categories and cost eligibility rules in call text
- Consortium composition: minimum **3** independent **beneficiaries** from **3** different eligible **countries**
- Project duration: **24 to 36 months**
- Ideally **one** big project to be funded

Other Specifications and Requirements



- Work in close partnership with the **Data Spaces Support Centre** ([DSSC](#)):
 - ensure alignment with the rest of the ecosystem of data spaces implemented with the support of Digital Europe Programme (data spaces reference architecture; common building blocks, toolboxes and standards; and data governance models)
- Use, in so far as possible and when available, the **smart cloud-to-edge middleware platform** [Simpl](#):
 - proof-of-concepts released by summer 2024
 - Minimum Viable Platform released end 2024
- active integration and **participation of data holders and users**
 - ensure that the data space is designed and structured to meet participant's needs
 - make the data space relevant and aim for high adoption rates and a strong sense of ownership of data holders and users by the end of the project's runtime
- Work from the outset towards achieving **financial sustainability** by the conclusion of the project action

Eligibility Applicants

- Public or private legal entities (natural persons not eligible)
- Established in eligible countries (EU27, EEA, countries associated to Digital Europe => [list participating countries](#))
- Restricted call, application art.12(6) Digital Europe Regulation:
 - Entities must **not** be directly or indirectly **controlled from a country that is not an eligible country, unless** they comply with the requirements to **guarantee** the protection of the essential security interests of the Union and the Member States, and to ensure the protection of classified documents information as set out in the relevant work programme (conditions for foreign controlled entities – guarantees)

=> Participants* to submit a declaration to **determine the ownership and control status**

** Beneficiaries and affiliated entities, associated partners and subcontractors - except for entities that are validated as public bodies by the Central Validation Service*

- Project **activities** can only take place **in the eligible countries**

How to submit an application



A 2-step process:

1) Register your organisation in the [Participant Register](#)

=> you will receive a 9-digit participant identification code (PIC).

2) Submit the proposal in 3 parts in the Funding & Tender Portal ([topic page](#)):

- ✓ Part A: administrative information (applicant organisations and budget for the proposal).
- ✓ Part B: description of the action with the technical content of the proposal (maximum 70 pages)
- ✓ Annexes: ownership control declarations (beneficiaries and affiliated entities, associated partners and subcontractors)

=> *Check call text and related documentation for exhaustive information*

More information

All in the [topic page](#) of the **Funding & Tender Portal**:

- Call text DIGITAL-2024-CLOUD-AI-06-GREENDEAL
- Digital Europe Work Programme 2023-2024
- EU Funding & Tenders Online Manual
- AGA – Annotated Grant Agreement
- Guidance on participation in DEP – restricted calls
- Topic related FAQ
- Funding & Tenders Portal FAQ (general)
- IT Help Desk
- **Partner search announcements** 

European Green Deal Data Space

DIGITAL-2024-CLOUD-AI-06-GREENDEAL

Topic Call for proposal

Internal navigation <

- General information
- Topic description
- Conditions and documents
- Partner search announcements**
- Start submission
- Topic related FAQ
- Get support
- Call updates

General information

Programme
Digital Europe Programme (DIGITAL)

Call
Cloud, data and artificial intelligence (DIGITAL-2024-CLOUD-AI-06)

| | |
|---|--|
| Type of action DIGITAL-SIMPLE DIGITAL Simple Grants | Type of MGA DIGITAL Action Grant Budget-Based [DIGITAL-AG] |
| Deadline model single-stage | Opening date 29 February 2024 |

Topic description

Thank you for your attention



ec.europa.eu/



[europeancommission](https://www.instagram.com/europeancommission)



europa.eu/



[@EuropeanCommission](https://twitter.com/EuropeanCommission)



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[EUTube](https://www.youtube.com/EUTube)



[@EuropeanCommission](https://www.facebook.com/EuropeanCommission)



[EU Spotify](https://www.spotify.com/EU_Spotify)



[European Commission](https://www.linkedin.com/company/EuropeanCommission)

Funded by
the European Union



GREAT

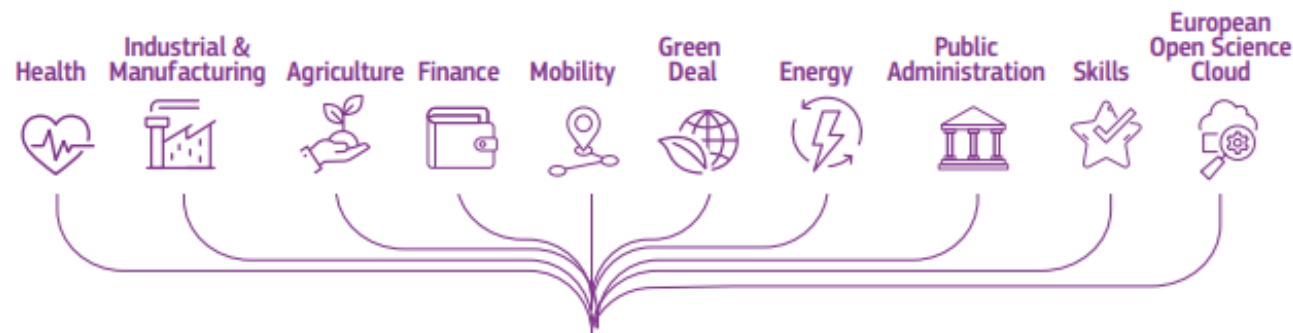
Nevena Raczko
Project Manager



GREEN DEAL DATA SPACE FOUNDATION & ITS COMMUNITY OF PRACTICE



GREAT | The Green Deal Data Space



Green Deal Data Space

A federation of data ecosystems enabling policy makers, businesses, researchers and citizens, from Europe and around the world, to jointly tackle climate change.

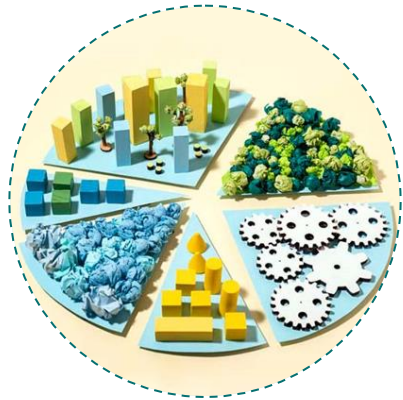
- Technical tools for data pooling and sharing
- Standards & interoperability (technical, semantic)
- Sectoral Data Governance (contracts, licenses, access rights, usage rights)
- IT capacity, including cloud storage, processing and services

- **Duration:** 20 Months
- **Running:** September 2022 – April 2024
- **Consortium:** 11 Partners 3 Associated Partners
- **Funding:** Digital Europe Programme (CSA)





Key Pillars



Community of Practice



Technical Blueprint



Governance & Business Models



High Priority Data Sets



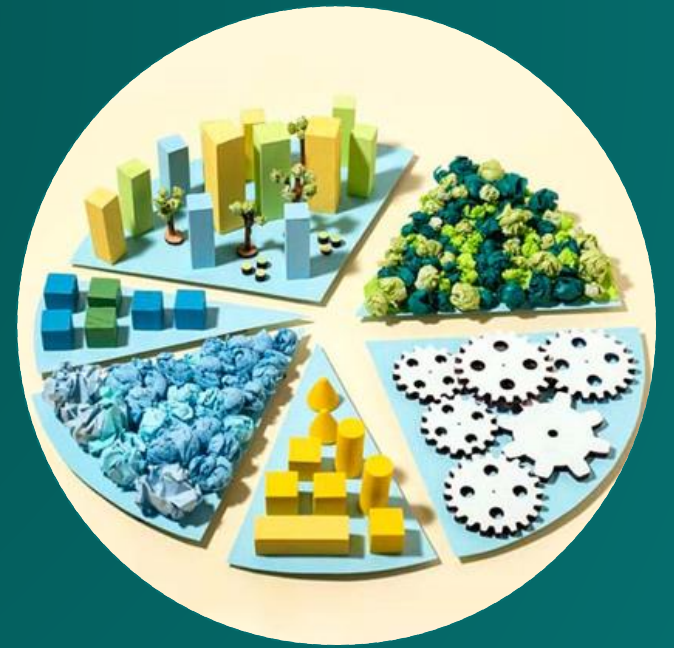
Roadmap

Strategic EGD Actions



Community of Practice

GDDS



16

Reference Use Cases & Initiatives



4

Stakeholder Fora



500+

Stakeholders



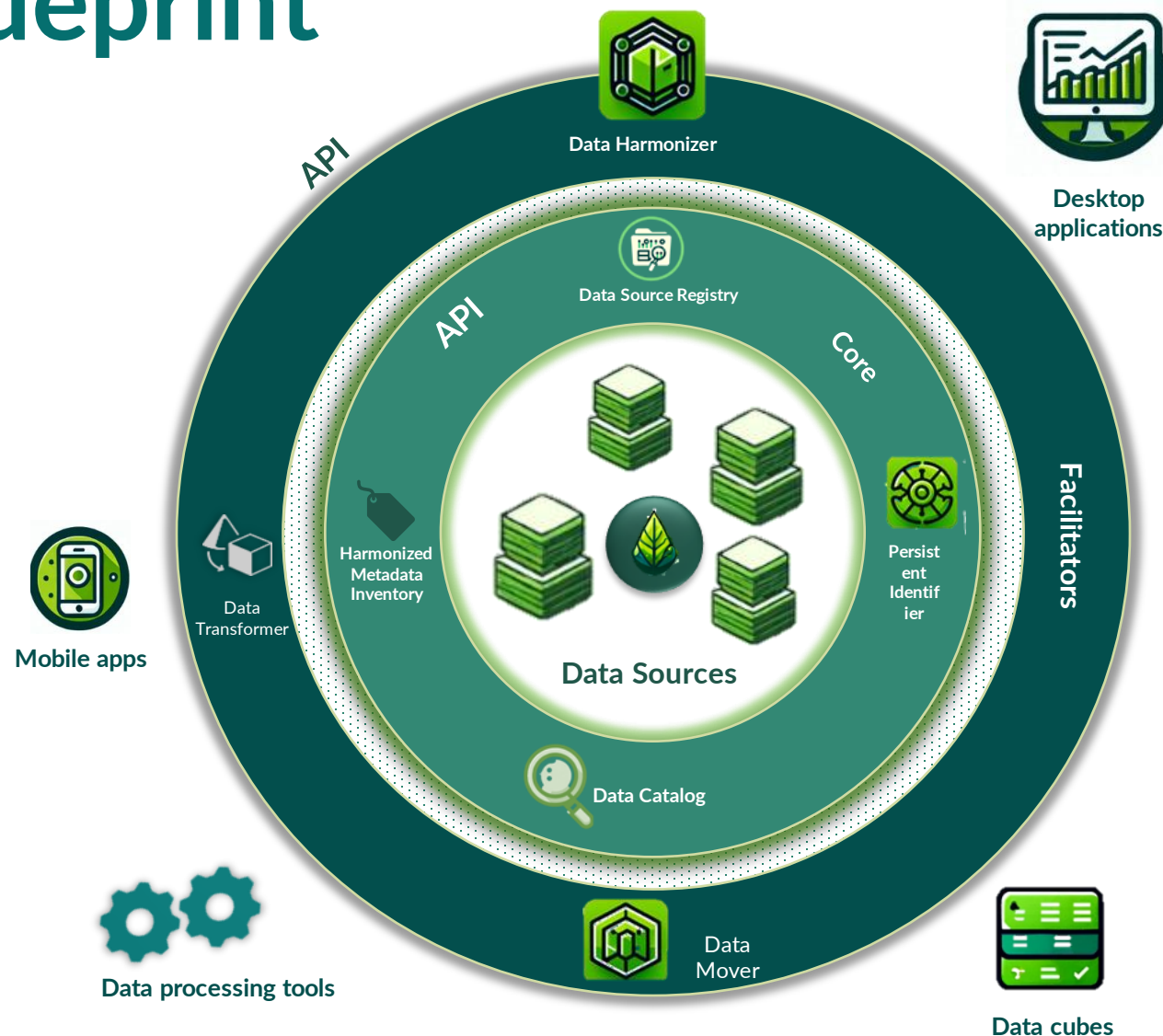
Technical Blueprint

GDDS Digital Ecosystem

The GDDS is characterized by a high level of heterogeneity, with many already existing data sharing initiatives that offer their resources to diverse consumers, which mirrors the current state of (geospatial) data sharing globally.

Establishing a single "common format" is not possible in a multidisciplinary context like GDDS.

The challenge is how to transform a collection of disparate systems that use different technical standards into a digital ecosystem. This requires a minimal set of logical components that enable the ecosystem's digital environment.





Governance

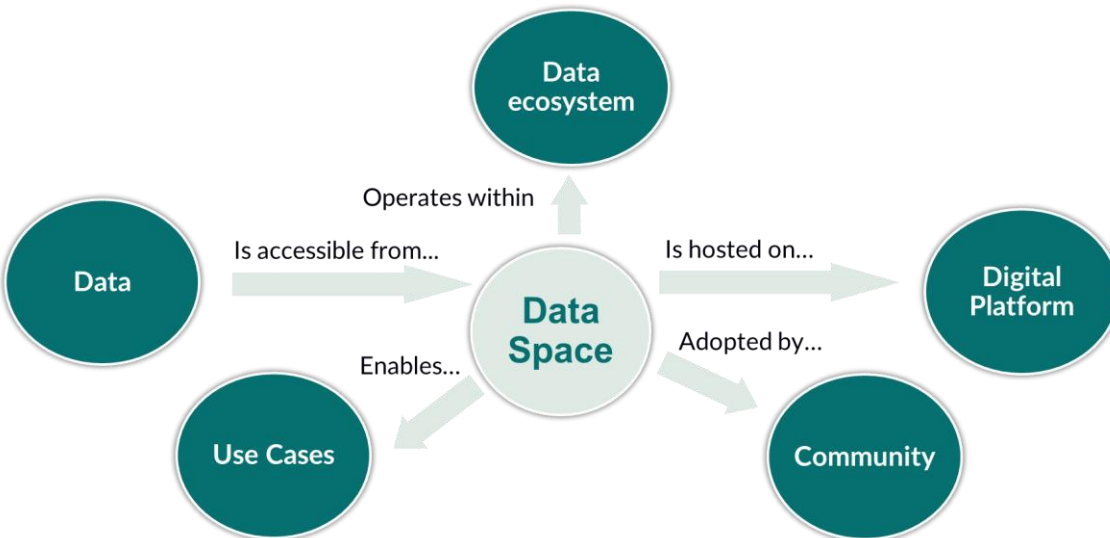
GOVERNANCE is the process for making decisions about an entity
Choosing the questions that must be decided - "Requirements"

Business models

What is the value of a data space for ?



- **A lawyer:** regulatory enforcement, case laws
- **A policy maker:** Do I have evidence/ indicators to support targets?
- **A scientist:** data for research, publications
- **Citizens:** where shall I put my data?
- **SME/Public administrations:** easy data access for value added services, public services. An opportunity to share data in a cost-effective way
- **DS Community:** Consensus that value is good use cases
- **Industry:** increase competitiveness in data economy. I want my data everywhere – but still under my control! Standardised data license agreements.
- **Circular economy:** Share and exchange required information with partners and regulators.
- **Existing well established data initiatives** (e.g. EMODNet, GEO): Access to cross-domain data. Promotion of their solutions in the wider community. Tech support
- **Big techs:** Access to open data (freemium models)





Priority Datasets



Knowledge collection from:

- **Reference Use Cases and Initiatives**
 - Interviews with specific data users and providers
 - Collection of data requirements, products and gaps
 - **Data Sets Inventory: list of specific data sets required by the RUCIs**
- **GREAT consortium and engaged stakeholders**
 - Engagement with stakeholders from different domains related to the EGD
 - **Data Services inventory: list of data service/portals/catalogues**



Data Sets, Services Inventory and Gaps

Data Set Inventory



- RUCI's data requirements and products
- Close to 100 specific data sets
- Described by mandatory or optional tags
- Categorisation in High Value Data sets and Essential Variable categories
- Data types: satellite imagery, gridded data, topographic maps, model outputs, in situ data sets, cadastral data sets and other
- FAIRness assessment using F-UJI*

Data Services Inventory



- Constantly expanding inventory of data services related to the Green Deal - more than 400 data services
- Data service and access information
- Prioritisation based on:
 - Relevance to RUCIs
 - Relevance to strategic actions
 - Relevance to EGD programmes
 - Sustainability
 - Coverage

Data Gaps



- Data sets that do not exist!
- Data sets that cannot be accessed or can be accessed only under specific contracts
- Data sets that cannot or are hard to use in combination with other data types due to standardisation and harmonisation issues
- Data sets whose quality cannot be guaranteed, or have evidently low quality
- Data sets that are hard to use openly because of ethical implications
- Data sets that exist in insufficient spatial and temporal resolution



Roadmap

Principles

Support the creation and the successful implementation of the Green Deal Data Space.

From design to proof of concept, implementation and scaling-up of the Minimum Viable GDDS.

Expand on trials and pilots involving local, regional, national, European, and global initiatives.

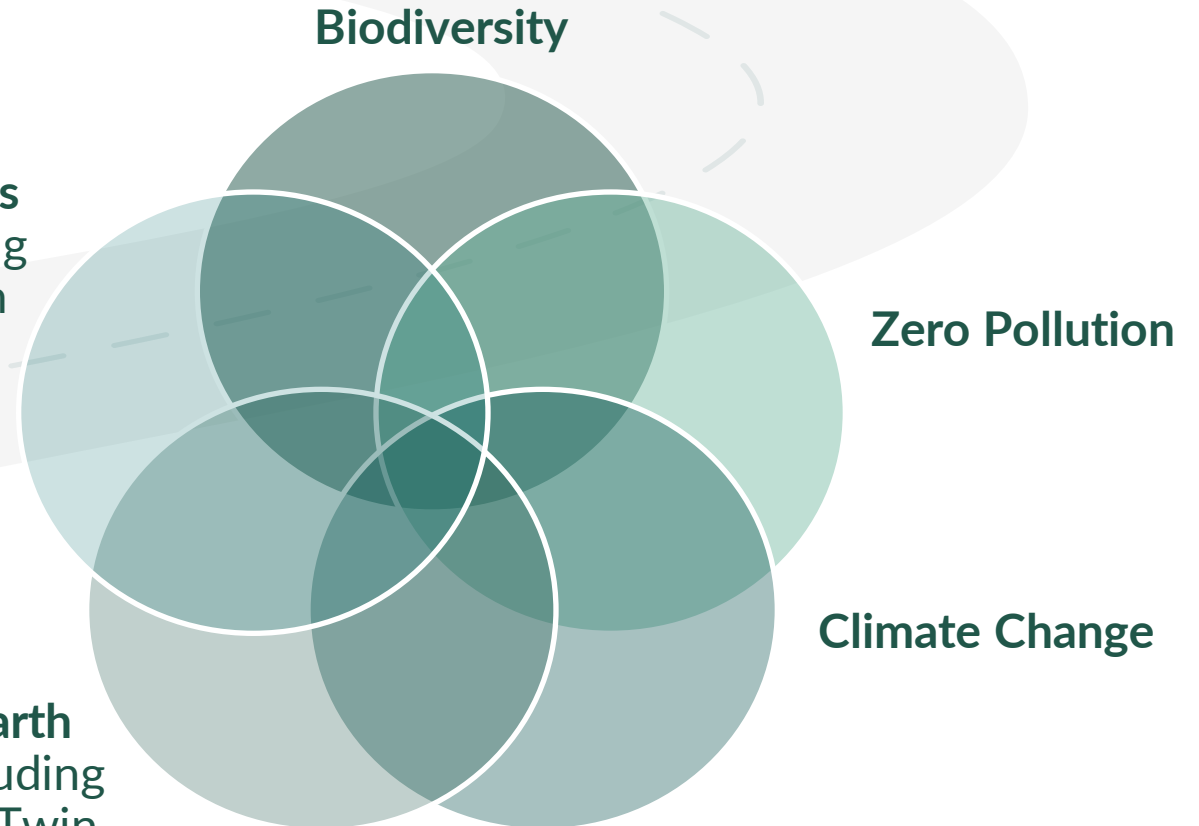
Validate benefits of the GDDS to vertical and horizontal domains, public sectors, businesses and citizens.

Five Clusters

To streamline these ambitions and provide structure for developing concrete plans, five clusters have been identified. They provide insights into potential future pilot projects:

Copernicus Services ecosystem (including other EU long term data services e.g., EMODnet)

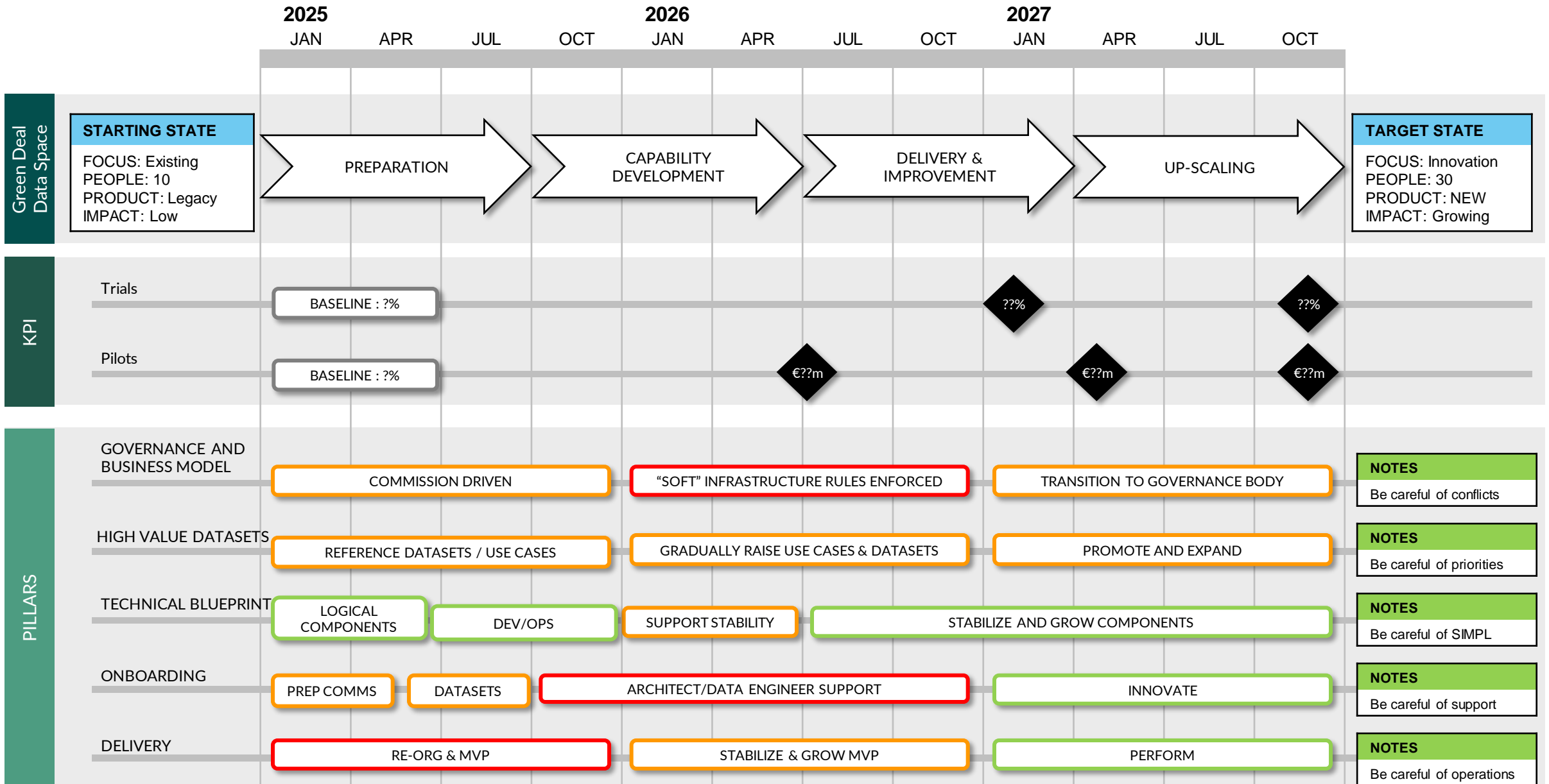
Destination Earth ecosystem (including e.g., EU Digital Twin of the Ocean)



GDDS STRATEGIC ROADMAP

TBC LOW RISK MED RISK HIGH RISK

PHASED IMPLEMENTATION



Public Deliverables

<https://www.greatproject.eu/>



Initial Blueprint of the
GDDS Reference
Architecture



Governance
Requirements



Prioritized Data Sets
& Gaps



Roadmap



Follow us!



www.greatproject.eu



@GreenDealDS



@Green Deal Data Space



@greendealdataspace



Public Deliverables





Thank you!

nraczko@idc.com



DATA SPACES

A use case in

FORESTRY DATA

WEBINAR

Data spaces: experiences
from the European Green Deal

15 March 2024

Albana Kona, DG JRC Unit T1 - Digital Economy
Margherita Di Leo, Arcadia SIT, under contract with EC JRC
Manlio Bacco, DG JRC Unit T1 - Digital Economy



JRC - Centre of reference for Data Spaces

Inclusive Data Governance

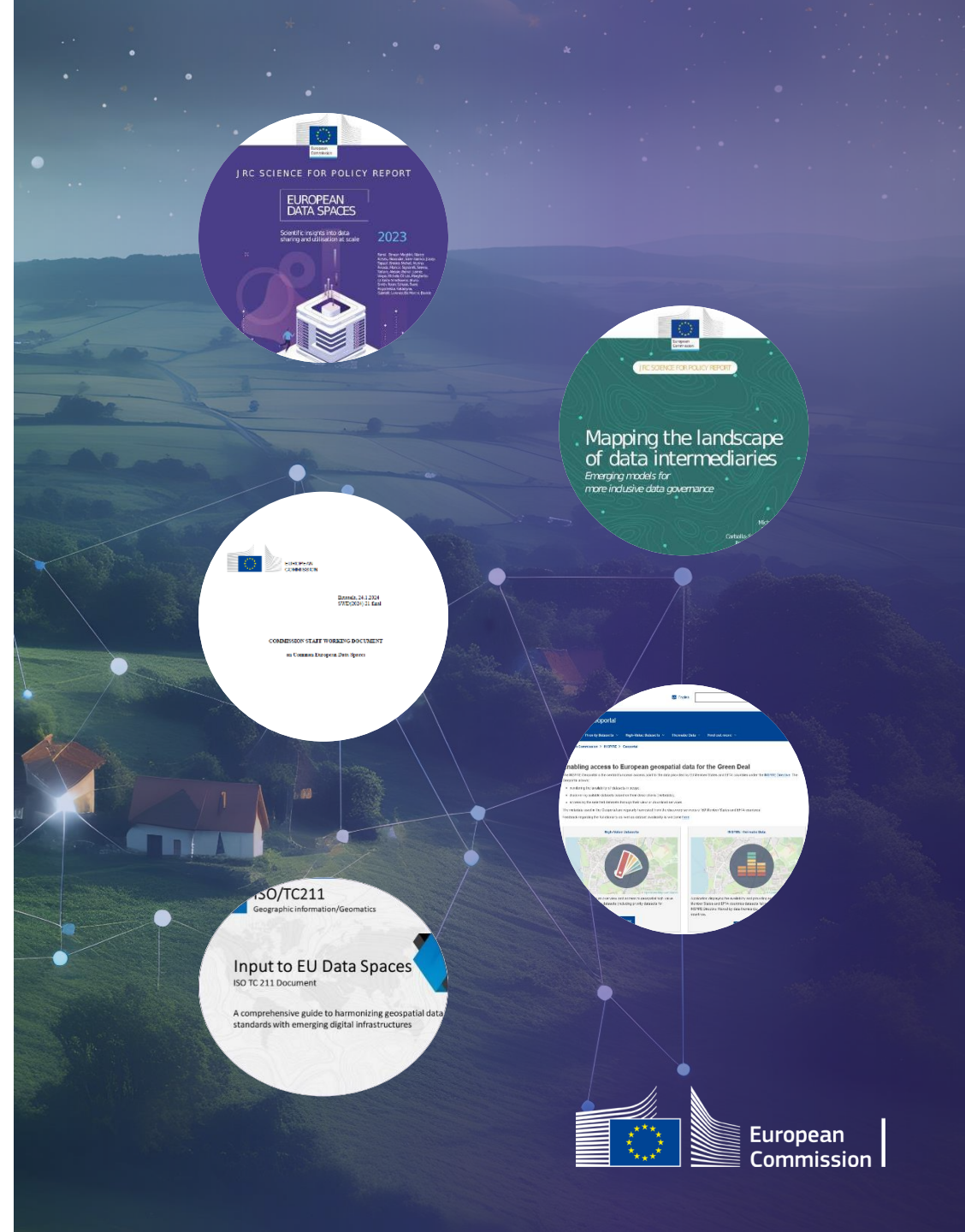
- Consent management tools
- Data intermediaries
- Data altruism

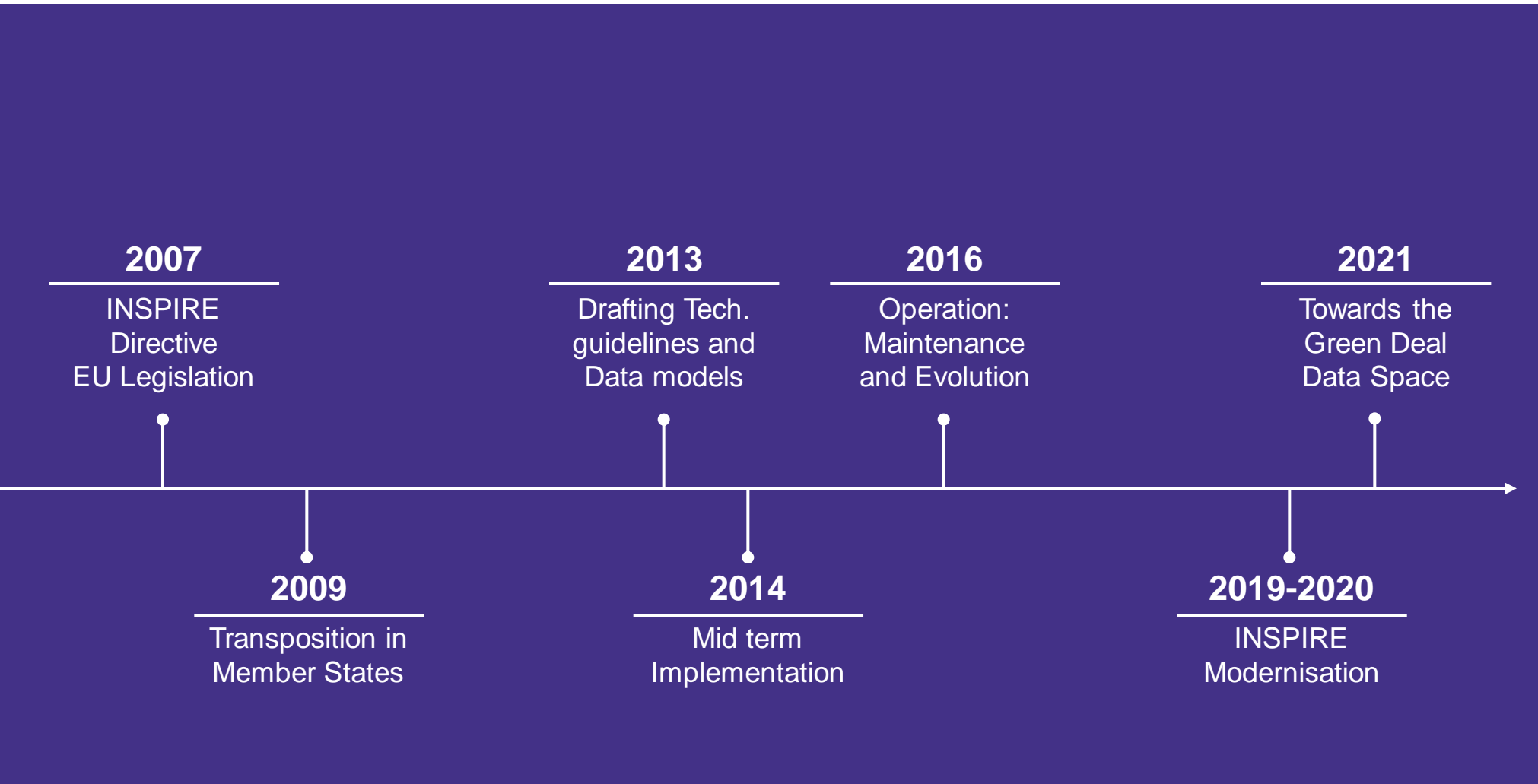
Common European Data Spaces

- Support on sectoral data spaces (e.g. DGs GROW, MOVE, AGRI, ENV, CNECT)
- Collaboration with EU Data Spaces Support Centre (DSSC)
- Privacy-preserving data analysis and sharing

Standardization

- A bridge towards Interoperability
- Collaboration & Agreements





- Implementation tasks:**
- INSPIRE MIG group and technical subgroup.
 - Yearly Monitoring & Reporting.
 - Operational support: Geoportal, Validator, Registry, Helpdesk.
 - Modernisation & Evolution:
 - INSPIRE good practices.
 - Open Data alignment: High-Value Datasets.
 - Policy making support: GreenData4All / Green Deal Data Space

The Directive entered into force in 2007 / Roadmap finished by December 2021.





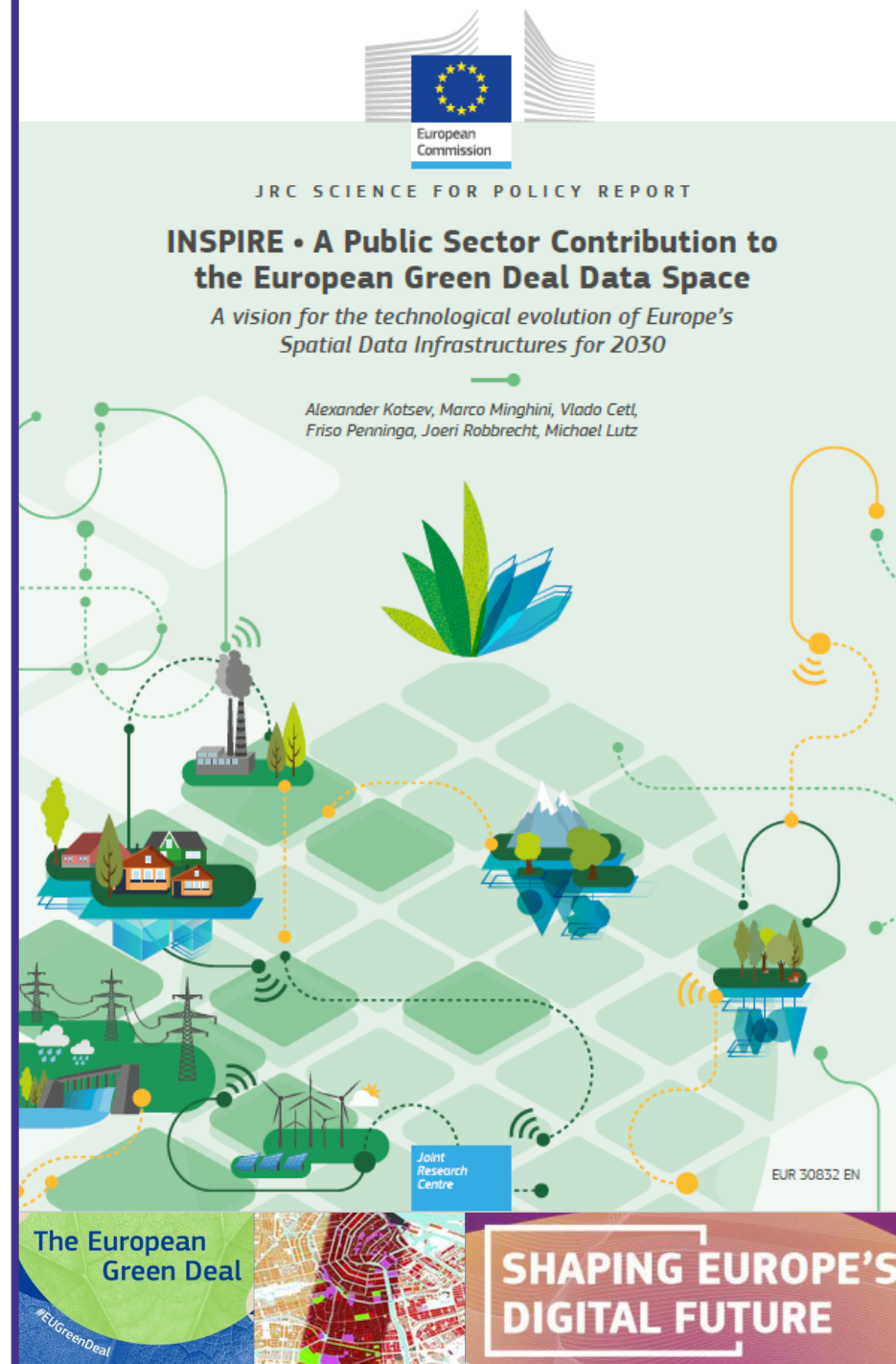
INSPIRE and new policy context Science for policy report



INSPIRE - A Public Sector Contribution to the European Green Deal Data Space

<https://publications.jrc.ec.europa.eu/repository/handle/JRC126319>

- Evolution to a data ecosystem (**Green Deal Data Space**).
- Broadening **the scope**:
 - New sectors: public, private/businesses, academia.
 - New communities: developers, users.
- Widening the **range of applications and use cases**.
- Making INSPIRE framework more **simple, flexible and agile**.
- Lowering the **knowledge entry-level** for implementing and/or using data.
- Reusing **well-adopted standards and technologies**.



Privacy-preserving data analysis and sharing

Report evaluating **privacy preserving techniques**

- Fit for **data spaces** and **digital twins**
- Handling **sensitive** data (personal and business)
- **Data intermediaries** as potential **trusted** parties

Experimental work on **Federated Learning with Differential Privacy**

- Data never leave the source (**privacy**)
- Privacy vs **utility** (accuracy) **tradeoff**
- Interplay of the **Data Act, Common European Data Spaces**

| | no FL / DP | Federated Learning | Differential Privacy | |
|-----------------------------|------------|--------------------|----------------------|----------|
| | | | fixed | adaptive |
| Data never leave the source | ✗ | ✓ | ✓ | ✓ |
| Privacy | ✗ | ➡ | ⬆ | ⬆ |
| Accuracy | ⬆ | ⬆ | ➡ | ⬆ |



JRC TECHNICAL REPORT

Technological Enablers for Privacy Preserving Data Sharing and Analysis

A comparative study

Deniel Hurtado Ramirez, Luis Porras Diaz, Sepideh Rahimian, Juan Miguel Auñón García, Borja Irigoyen Peña, Yusra Al-Khazraji, Angel J. Gavin Alarcón, Pablo González Fuente, Josep Soler Garrido, Alexander Kotsev

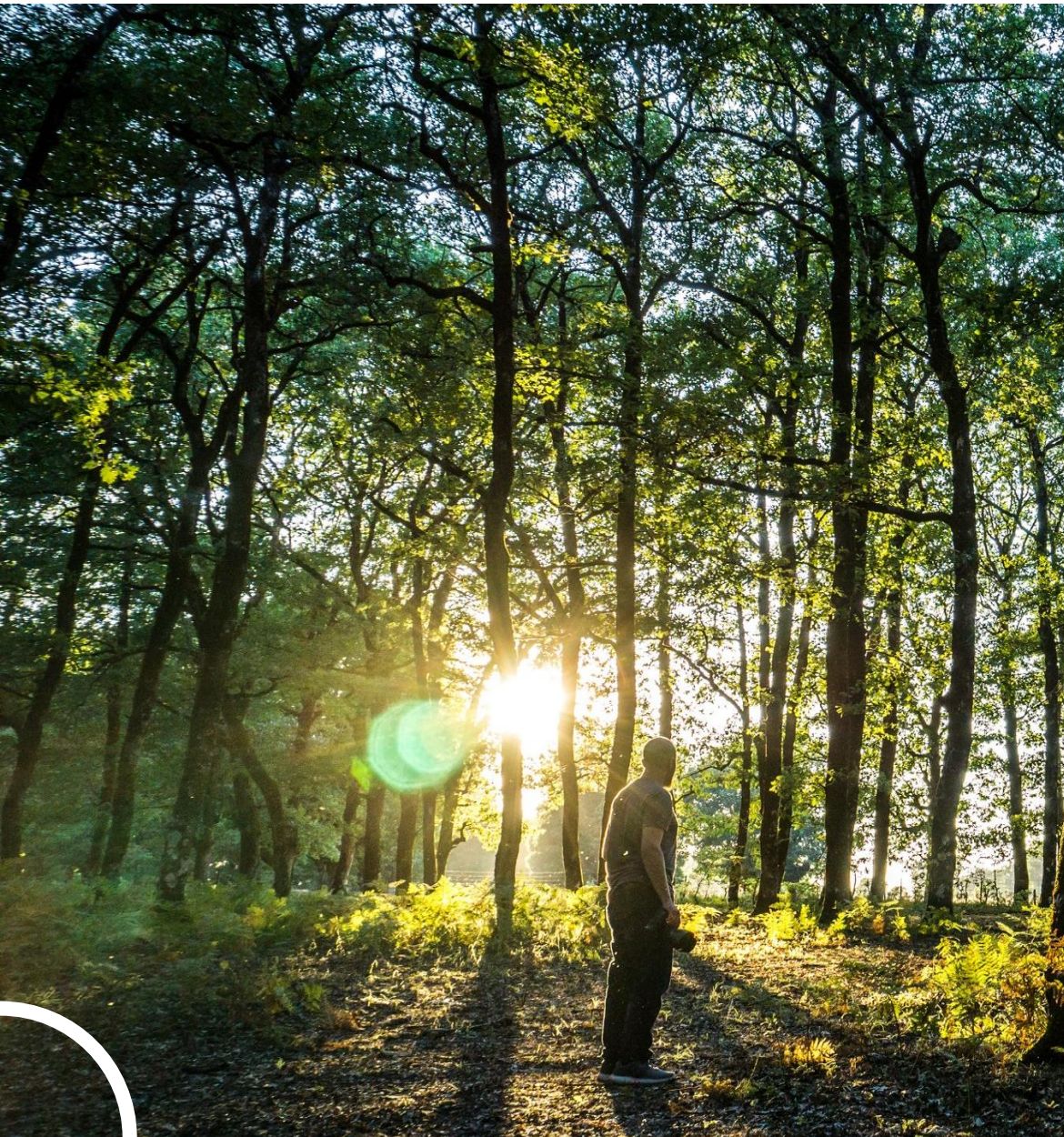
2023



A use case on forestry data (prototype)

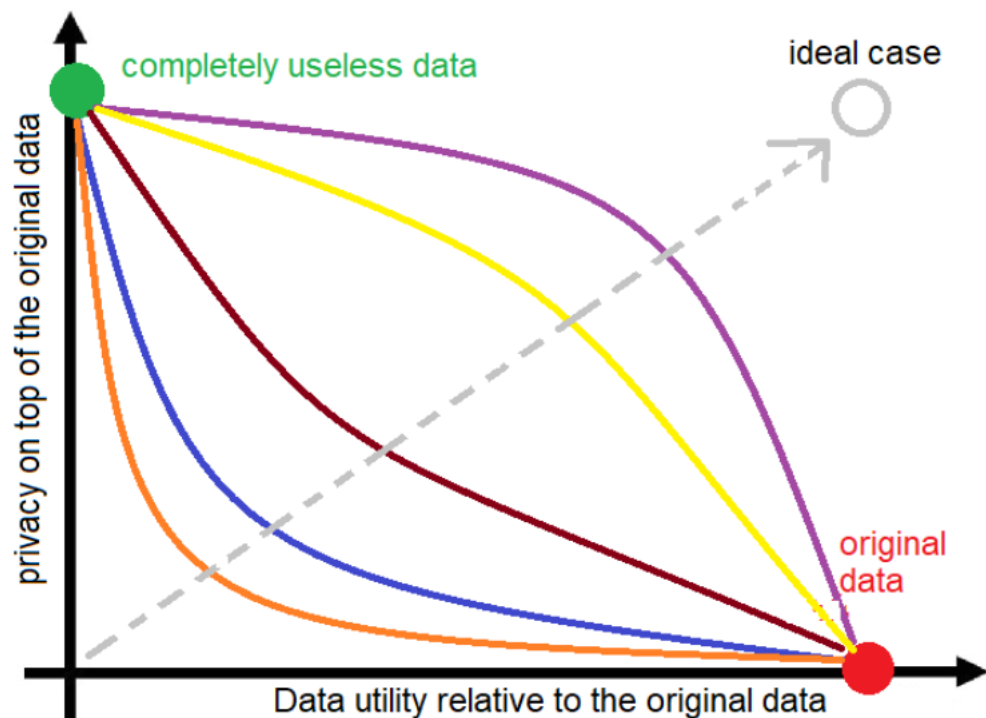
Forest data collected by National Forest Inventories (NFIs) are used for a wide **range of purposes**:

- Assess the **health and condition** of forests, monitor **changes** in forest cover, and plan **sustainable forest management practices**.
- Information on the **diversity of tree species, ecological processes, and biodiversity conservation**.
- Estimating the **amount of carbon stored in forests**, for understanding the role of forests in mitigating climate change.
- Volume, quality, and distribution of **timber and non-timber forest products**, for forest industries.
- Governments and policy-makers use NFI data to **develop policies related to forest conservation and natural resource management**.
- Scientific research to understand the **dynamics of forests and their ecosystems**.
- **Reporting on national and international commitments** related to forest conservation, such as the UN Framework Convention on Climate Change (UNFCCC) and the Convention on Biological Diversity (CBD)



- Plot data is **collected in the field**, data collection is costly and not feasible for vast areas.
- NFIs collect forest data but it is **subject to privacy constraints and not disclosed**.
- Terms and conditions for its use **vary according to country**.
- At the regional level, it is necessary to integrate these measurements with **remote sensing data**.

Privacy vs. Utility trade-off

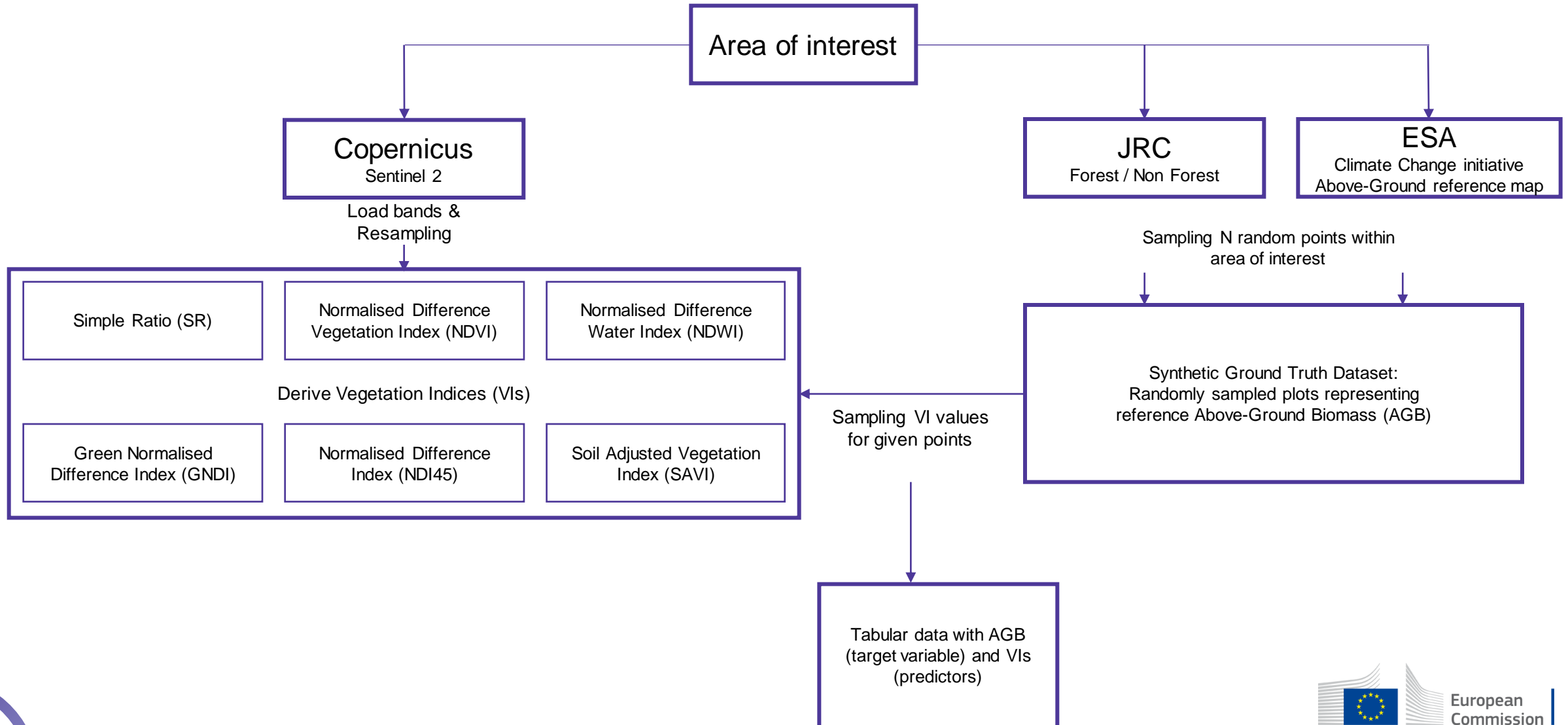


- Data can be degraded before being disclosed, coordinates can be shifted and noise can be added, but **makes it less useful for using in modelling**, especially in remote sensing applications.
- The **more privacy** is preserved, the **less accuracy** is achieved in modelling.

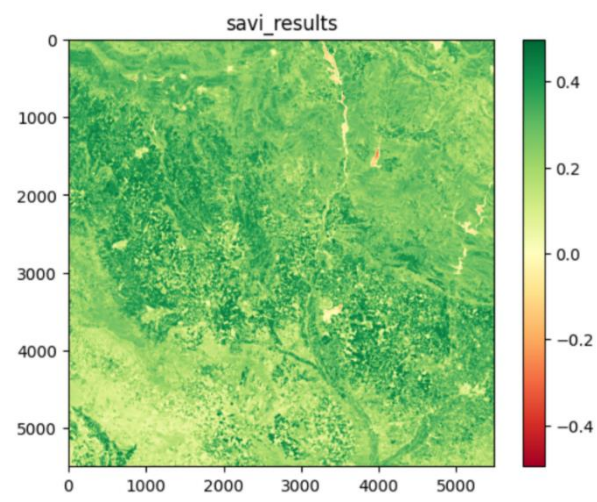
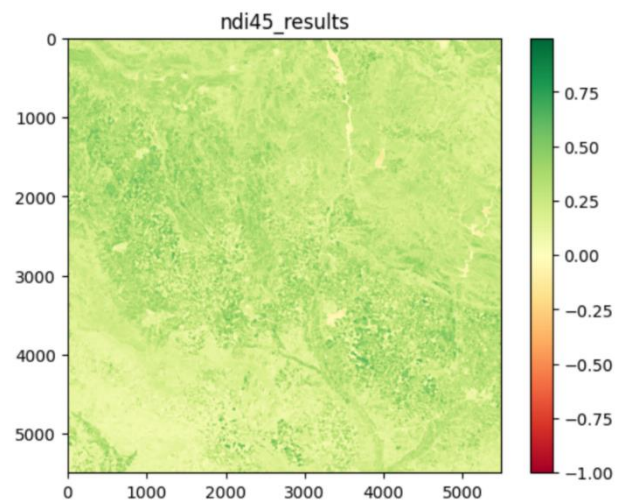
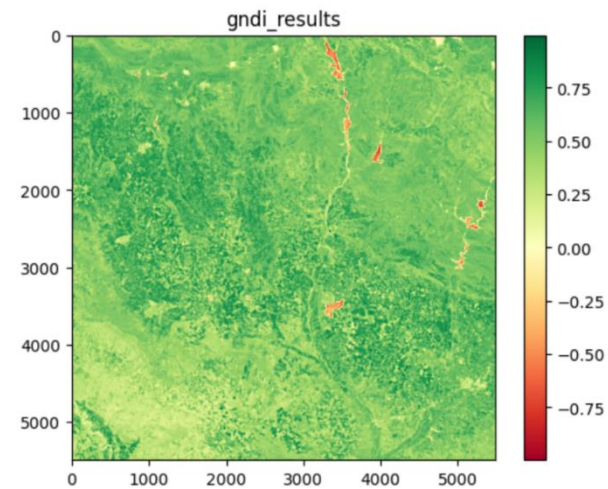
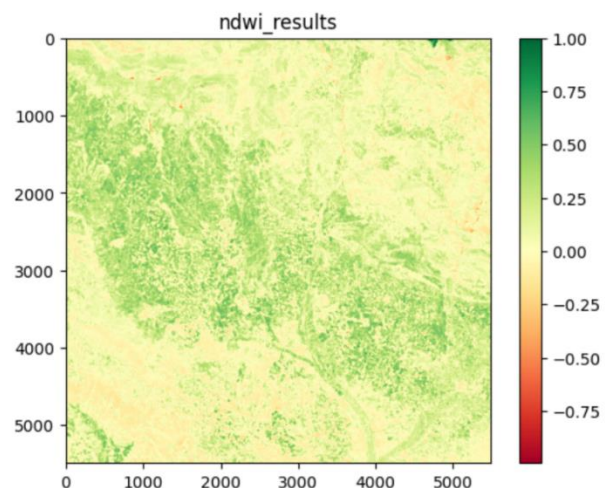
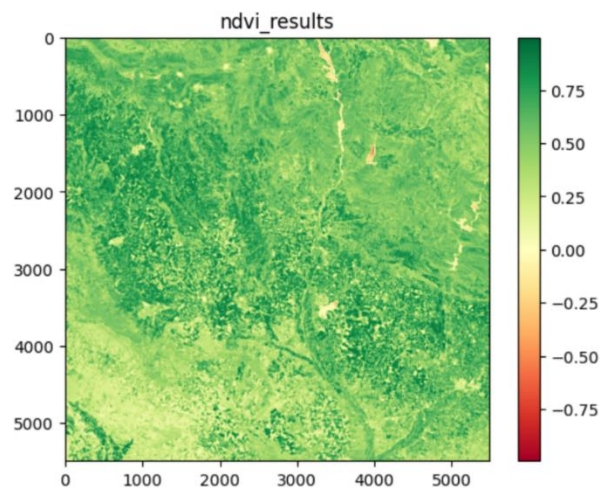
Pictorial representation of the privacy versus utility tradeoff. Different solid lines represent different data perturbation approaches for releasing private information
© Fang Liu, 2007



Deriving biomass (AGB) maps from remote sensing Vegetation Indices (VIs)

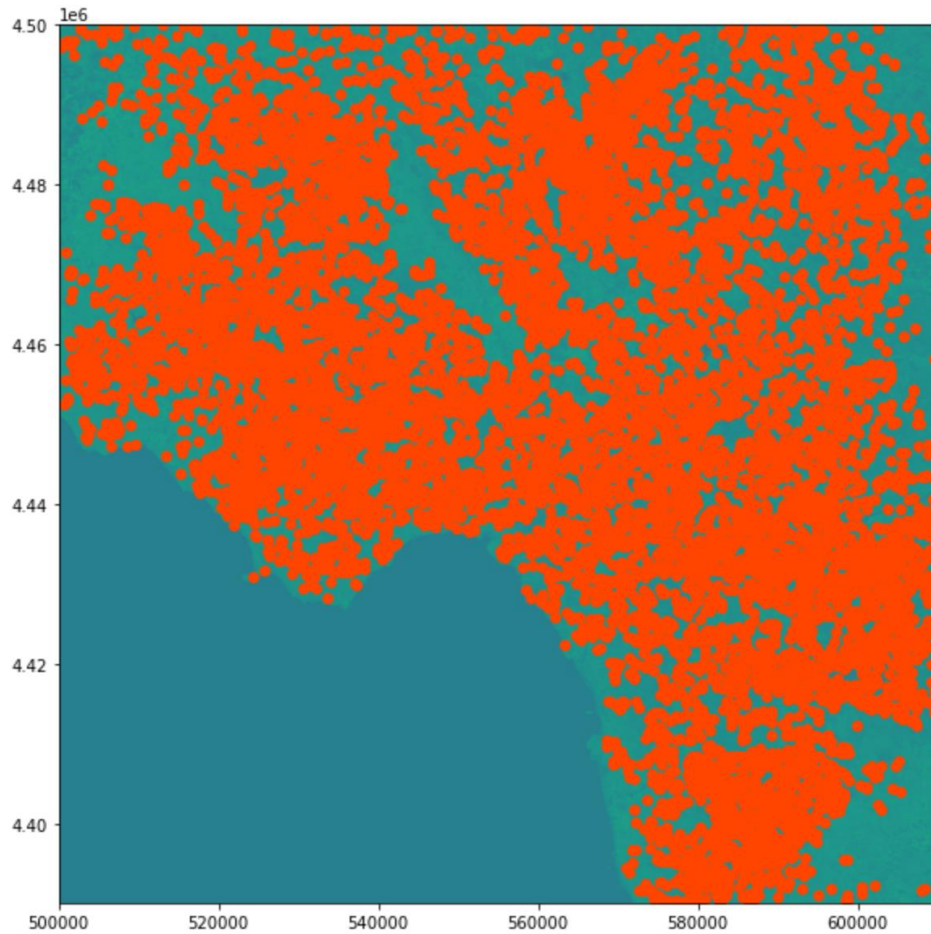


Vegetation Indices





Sample dataset



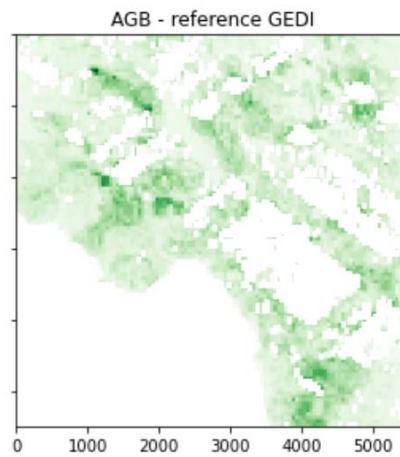
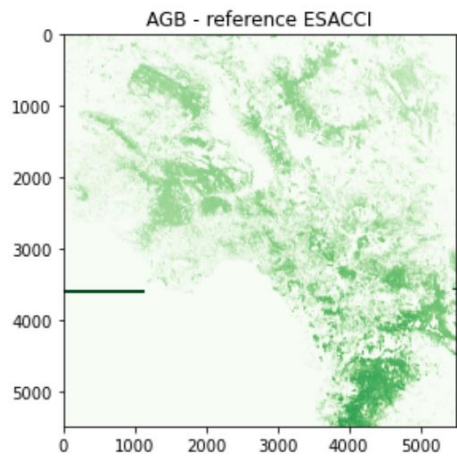
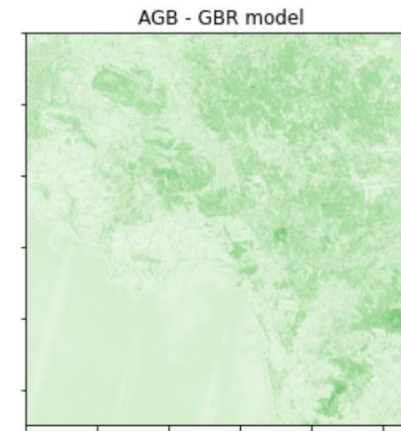
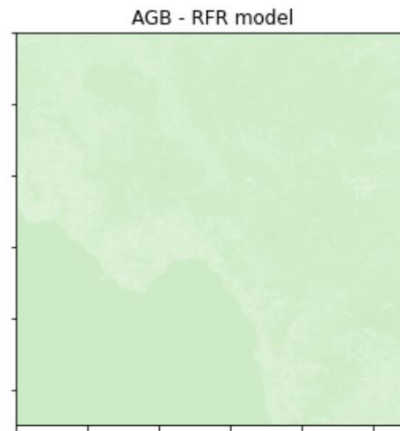
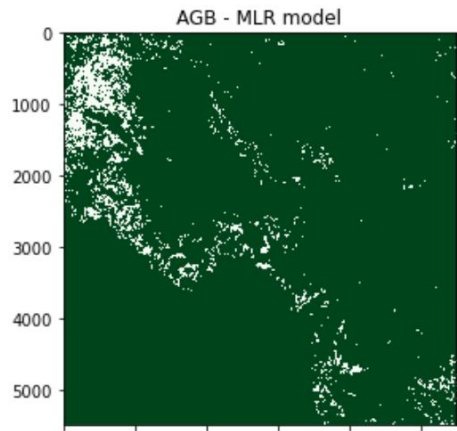
| | geometry | x | y | AGB | SR | NDVI | NDWI | GNDI | NDI45 | SAVI |
|-------------|--|----------|-----------|-------|----------|----------|-----------|----------|----------|----------|
| 0 | POLYGON ((585140.000 4405760.000, 585139.904 4405758.040, 585139.616 4405756... 4405756...)) | 585120.0 | 4405760.0 | 228.0 | 0.331338 | 0.502250 | 0.194038 | 0.488249 | 0.148449 | 0.251101 |
| 1 | POLYGON ((577800.000 4426580.000, 577799.904 4426578.040, 577799.616 4426576... 4426576...)) | 577780.0 | 4426580.0 | 167.0 | 0.646074 | 0.215024 | -0.088917 | 0.277205 | 0.071472 | 0.107500 |
| 2 | POLYGON ((548820.000 4453100.000, 548819.904 4453098.040, 548819.616 4453096... 4453096...)) | 548800.0 | 4453100.0 | 101.0 | 0.651240 | 0.211212 | -0.104627 | 0.253877 | 0.065685 | 0.105594 |
| 3 | POLYGON ((533860.000 4433020.000, 533859.904 4433018.040, 533859.616 4433016... 4433016...)) | 533840.0 | 4433020.0 | 6.0 | 0.425859 | 0.403023 | 0.140343 | 0.384979 | 0.138316 | 0.201490 |
| 4 | POLYGON ((584720.000 4470060.000, 584719.904 4470058.040, 584719.616 4470056... 4470056...)) | 584700.0 | 4470060.0 | 0.0 | 0.495626 | 0.338183 | 0.063042 | 0.349023 | 0.136099 | 0.169077 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 9995 | POLYGON ((529280.000 4474180.000, 529279.904 4474178.040, 529279.616 4474176... 4474176...)) | 529260.0 | 4474180.0 | 79.0 | 0.524072 | 0.312648 | -0.028250 | 0.340110 | 0.093602 | 0.156308 |
| 9996 | POLYGON ((536680.000 4480340.000, 536679.904 4480338.040, 536679.616 4480336... 4480336...)) | 536660.0 | 4480340.0 | 139.0 | 0.407100 | 0.421907 | 0.093134 | 0.425397 | 0.173195 | 0.210935 |
| 9997 | POLYGON ((533420.000 4483860.000, 533419.904 4483858.040, 533419.616 4483856... 4483856...)) | 533400.0 | 4483860.0 | 158.0 | 0.594102 | 0.254627 | -0.011723 | 0.280035 | 0.074662 | 0.127300 |
| 9998 | POLYGON ((554720.000 4443360.000, 554719.904 4443358.040, 554719.616 4443356... 4443356...)) | 554700.0 | 4443360.0 | 177.0 | 0.603680 | 0.247254 | -0.050848 | 0.295968 | 0.093422 | 0.123613 |

- Multiple Linear Regression (**MLR**)
- Random Forest Regression (**RFR**)
- Gradient Boosting Regression (**GBR**)
- ...



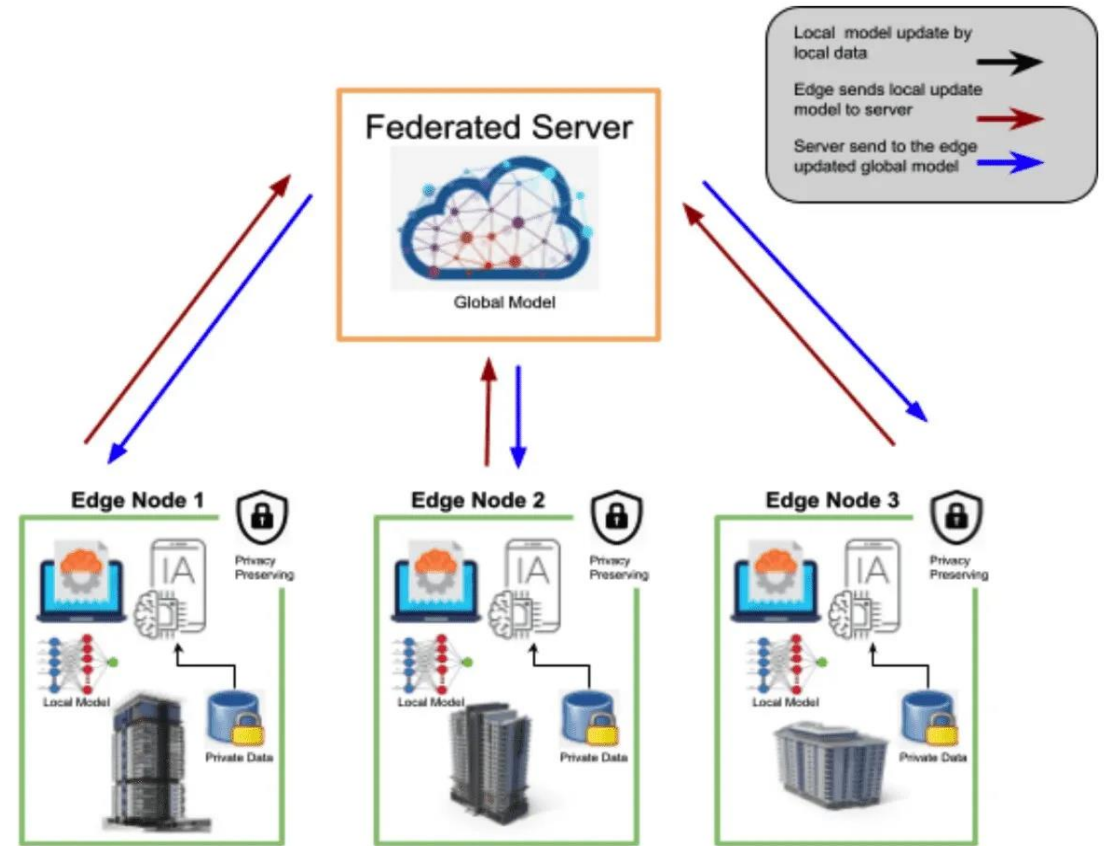
Prediction (prototype)

Biomass prediction



Federated Learning (FL)

- FL enables training models across decentralized devices or servers holding local data samples, without the need to transfer the data to a central location.
- The model is trained locally on each device using its own data, and only the model updates are shared with a central server or aggregator.
- The server then combines the updates from multiple devices to improve the global model, which is then sent back to the devices for further training.
- This approach allows for privacy-preserving training, as the raw data remains on the local devices and only model updates are exchanged.



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- **Adds noise to the data** to ensure that no specific record's information can be discerned from the output, while still providing **accurate and useful aggregate information** for the analysis.
- Can be combined with **federated learning to maximise privacy**.

Thank you



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Q&A



Carlos Martins Ferreira
Knowledge Management,
Data.europa.eu



Sotirios Kanellopoulos
emerging ICT & data for
environmental
sustainability, statistical
learning specialist



Nevena Raczko
Senior Consultant at IDC's
European Government
Consulting unit



Albana Kano
Scientific Officer at the
European Commission, Joint
Research Centre



Margherita Di Leo
Senior Consultant at
European Commission, Joint
Research Centre

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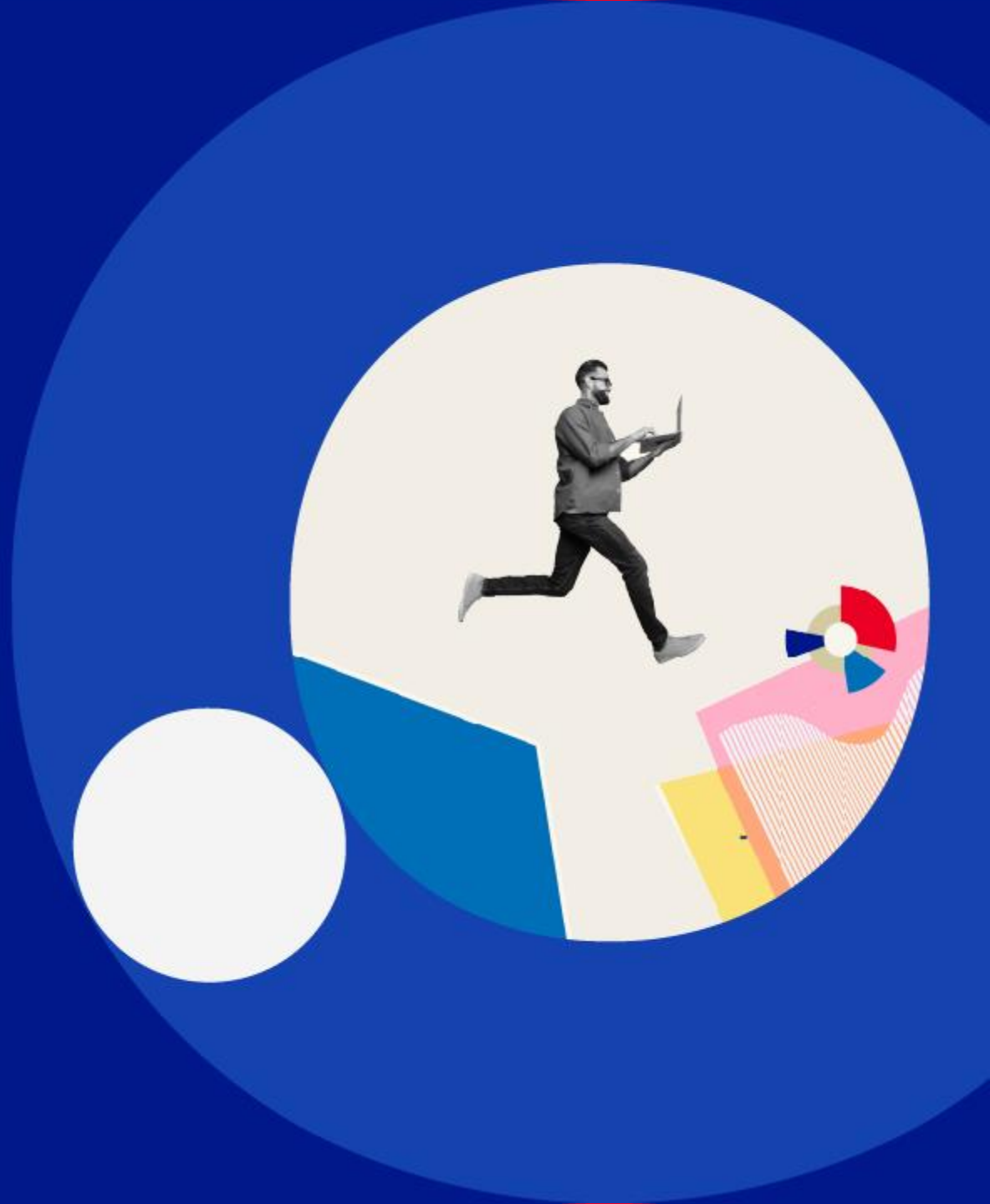
22 March 2024

10.00 — 11.30 CET

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