BeGe0 2024

LA CONNEXION A L'ETAT PUR DE ULTIEME CONNECTIE



The Green Deal Data Space Foundation



Raymond Oonk, SURF **GREAT Project**

begeo.be

Sponsored by











Raymond Oonk



SURF the collaborative IT Cooperative for research and education in the Netherlands with more than 100 members

- Sentinel 5P / Tropomi
- PACE / SPEXone
- Copernicus EOSC Analytics Engine (C-SCALE https://c-scale.eu/)





Green Deal Community of Practice (GREAT https://www.greatproject.eu/)



Data for the Green Deal







Single Market for data COM/2020/66

Climate and environmental-related challenges COM/2019/640



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.

JRC

"There is no <u>single</u> technical or organisational approach that can be applied for the establishment of common European data spaces"

"Therefore, a <u>community-based</u> approach through co-creation and co-design of data spaces that considers the domain-specific context is the <u>only</u> feasible way forward that would ensure buy-in by a broad spectrum of stakeholders."



Data for the Green Deal





COM/2020/66





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GREAT Green Deal Data Space Foundation & its Community of Practice

Duration: 18 Months

Potential starting date: September 2022 - April 2024

Consortium: 14 Partners

GREAT is brought to you by:

















ECMWF



eod









Data for the Green Deal





COM/2020/66





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ECMWF









Overall objectives



Community of Practice



High Priority Dataset



Technical Blueprint



Governance & Business Models

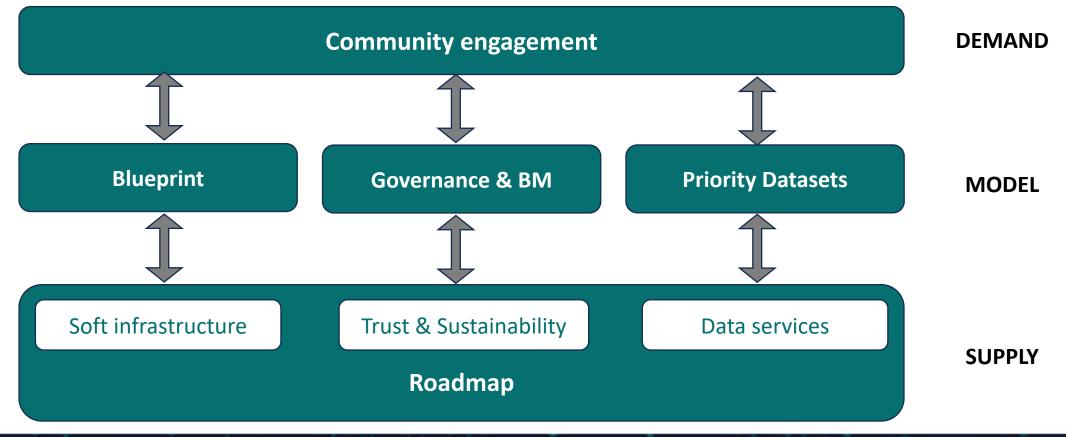


Roadmap



Green Deal Data Space approach







Strategic Green Deal Actions









Green Deal Data Space principles



The Green Deal Data Space is a collaborative and inclusive ecosystem supported by shared data infrastructures and governance frameworks. It offers **an open environment** for participation, ensuring secure and privacy-preserving data handling. With clear and transparent **access rules** and a **robust governance** mechanism, it upholds EU regulations, prioritizes fair access, and encourages data sharing for the benefit of sustainable development and innovation.





GREAT (Community of Practice)

16

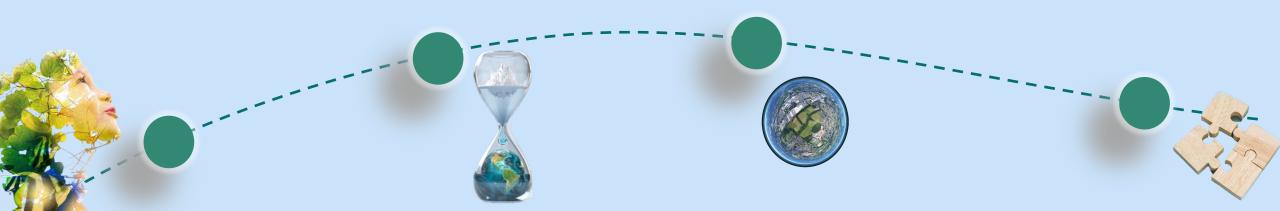
Reference Use Cases & Initiatives

4

Stakeholder Fora

600+

Stakeholders involved



GREAT (Community of Practice)

Public, Private and Academic sectors































































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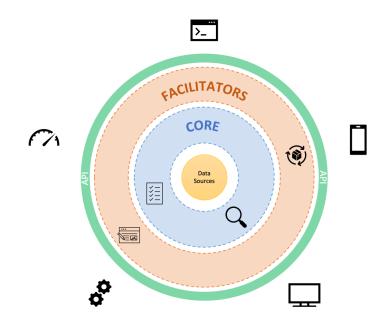


Green Deal Data Space - Blueprint



THE GREEN DEAL DATA SPACE

- will interconnect currently fragmented and dispersed data from various ecosystems, both for/from the private and public sectors.
- will offer an interoperable, trusted IT environment, for data processing
- will provide a set of rules of legislative, administrative and contractual nature that determine the rights of access to and processing of the data.



- Functional description of core logical components
- Functional description of facilitator logical components



Green Deal Data Space & Governance

A useful definition from Data Spaces Support Centre (DSSC):

"A distributed system defined by a **governance framework** that enables secure and trustworthy **data transactions** between **participants** while supporting trust and **data sovereignty**. A data space is implemented by one or more **infrastructures** and enables one or more **use cases**."

Governance framework formulated along 2 dimensions:

- 4 layers of governance Legal & Regulatory; Digital platforms; Data Space; Data
- 4 lifecycle stages of governance Formation; Operation; Monitoring; and Sustainability
 - > multi-organizational alliance organised around a central entity

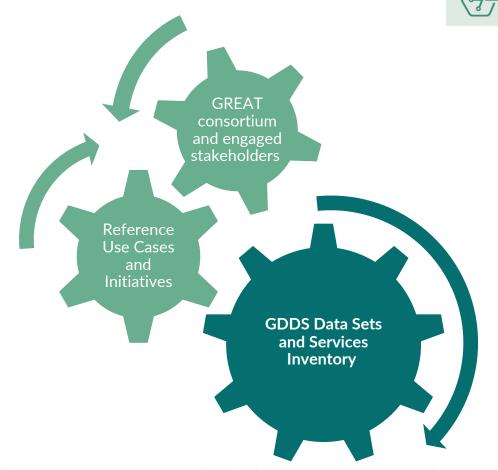


Green Deal Data Space - Priority Data



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

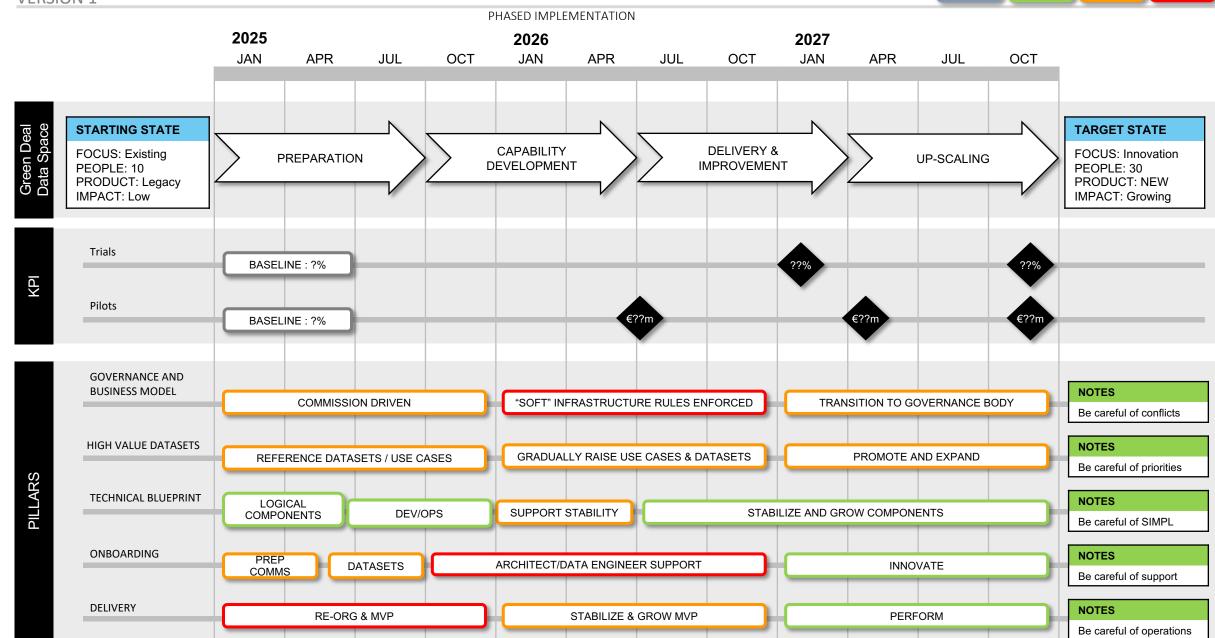




GDDS STRATEGIC ROADMAP

TBC

LOW RISK MED RISK HIGH RISK



Contact and follow us!





www.greatproject.eu



@GreenDealDS



@Green Deal Data Space



@greendealdataspace



Public Deliverables Phase – 1 available

Phase – 2 arrives in April - May

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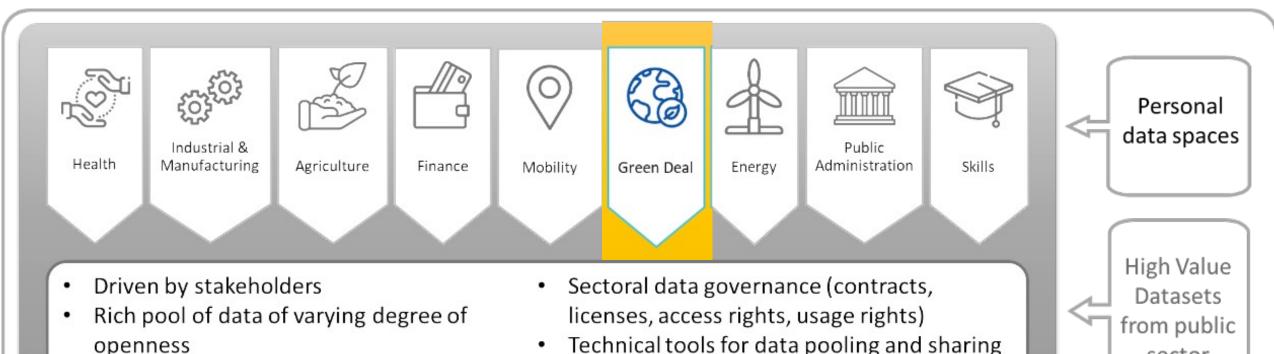


Funded by the European Union

Green Deal Data Space



Define the <u>technical blueprint of the GDDS reference architecture</u> explaining how existing (and planned) data ecosystems (at national, regional, and local level) can be connected to provide an interoperable, secure data sharing environment which allows seamless discovery and use of available data



Technical infrastructure for data spaces



Edge Infrastructure & Services Cloud Infrastructure & Services

High-Performance Computing

Al on demand platform Al Testing and Experimentation Facilities

sector

Reference Use Cases & Initiatives

Phase 1



Global hydrology modeling

Seasonal forecasting of water resources

Zero pollution - water Climate change adaptation - geohazards



Marine Task Force

EMODnet

Biodiversity Zero pollution Climate change adaptation



GOS4M

Zero pollution - air



EPOS

Zero pollution Climate change adaptation



BioGIS 360

Biodiversity Climate change adaptation

#Biodiversity



AI4TREES

Biodiversity Climate change adaptation



Natural Capital

Biodiversity Climate change adaptation



Biodiversity in Wadden Sea

Biodiversity, Zero pollution Climate change adaptation

#ZeroPollution



UNLOCK

Biodiversity, Zero pollution Climate change adaptation



SDGs-EYES: GHG emission from forest fires

Zero Pollution

Phase 2

#ClimateChangeAdaptation



SHARED PUBLIC ADMINISTRATION FOR CLIMATE CHANGE AT THESSALONIKI METROPOLITAN AREA

Climate change adaptation Zero pollution



HARMONIA

Climate change adaptation



USAGE

Climate change adaptation

#CircularEconomy



Forestry Data Space

Biodiversity Circular economy



Starling

Biodiversity, Circular economy Climate change adaptation



Deforestation & wildlife

Biodiversity, Circular economy Climate change adaptation







Learn more about the technical blueprint



Initial Blueprint of the GDDS Reference Architecture







Governance & Business Models

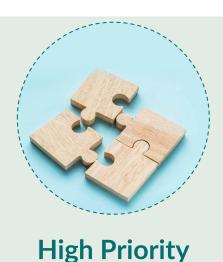
Learn more about the governance scheme



Phase 1 Governance Requirements and Endorsed Governance Scheme







Dataset

Learn more about the High Priority Datasets



EGD Prioritised Data Sets and Gaps (Initial Inventory plus Phase 1 Reference Use Cases)







Learn more about the implementation roadmap



Green Deal Data Space Implementation Roadmap

