



# **(Common European) Data Spaces**

## and Official Statistics

### Third Data Strategy Sprint Webinar

Supercharging your Data Strategy through Collaboration

United Nations Network of Economic Statisticians

Barteld Braaksma (with contributions from Eko Rahmadian and Anastasija Spajic)

Utrecht, 8 October 2024

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## ❖ Examples

- ✓ EU Green Deal Dataspace
- ✓ EU Health Data Space (Anastasija Spajic)
- ✓ Dutch Data Space for the Physical Environment
- ✓ One Data Indonesia

## ❖ Governance framework (Eko Rahmadian)

## ❖ Take-away messages

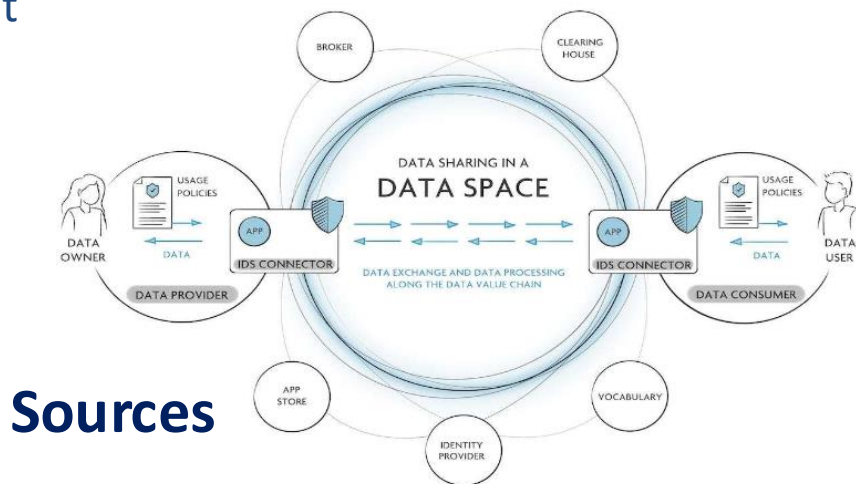


# What is a Data Space?

Interoperability  
Agreements  
'Data Market'

STAKEHOLDER

Governance



© International Data Spaces

Infrastructure

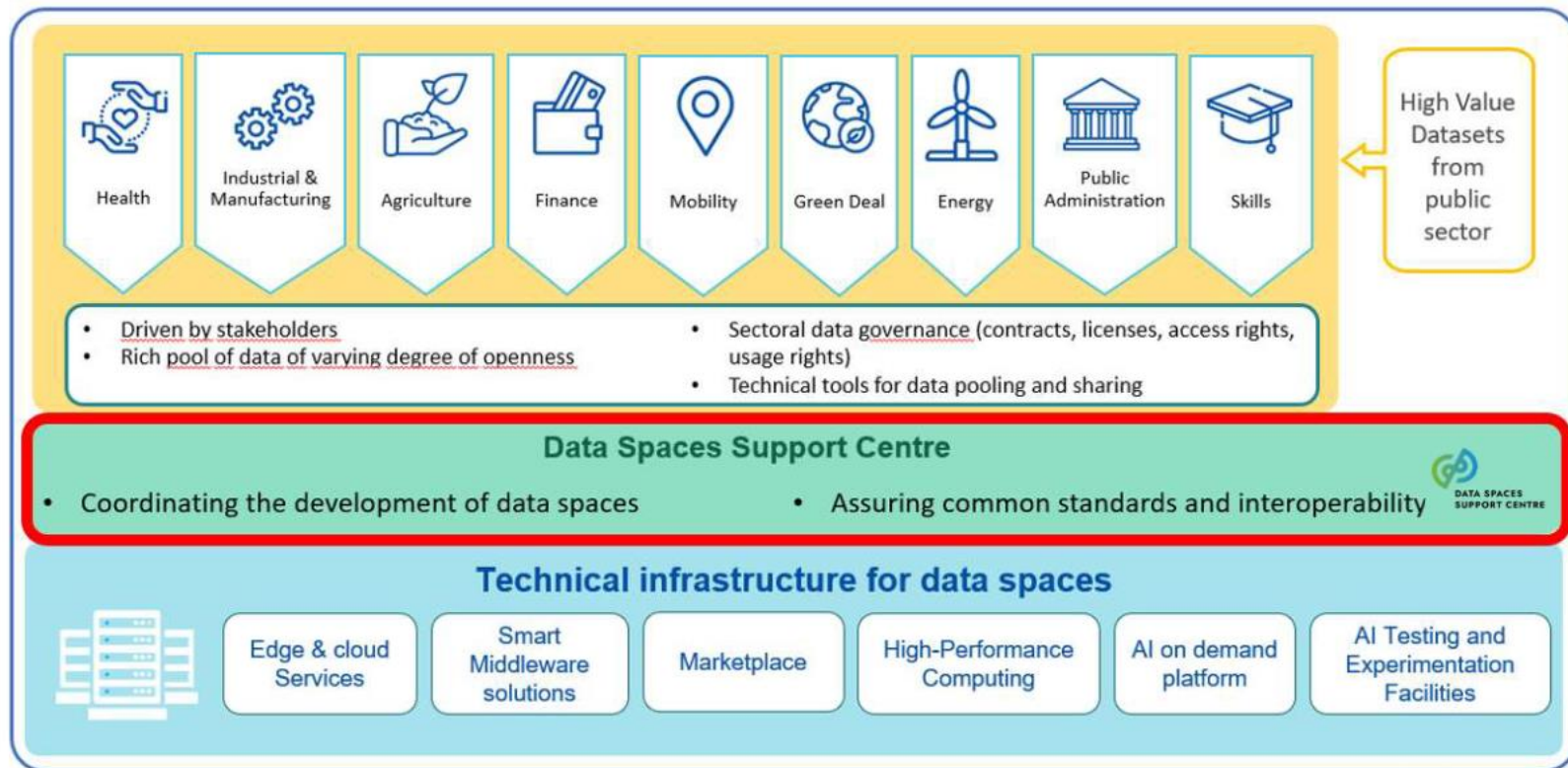
Four-corner principle of data space concept (International Data Spaces)

What  
role(s) for  
Official  
Statistics?

Users



# EU: Domain-Centered Approach (including laws)



# CBS Approach

- We actively explore how we can **contribute to** and **benefit from** Data Spaces
- Not everything (too much...) -> choices
- Learning by doing
- Collaboration with partners and stakeholders
- Connection between national and international levels
- Approved by CBS Board of Directors



# The European Green Deal Data Space

HOME PRACTICE EXAMPLES LEGAL FRAMEWORK TECHNOLOGY

Home » News » Digital Europe Programme explained: The Green Deal Data Space

## Digital Europe Programme explained: The Green Deal Data Space

25.11.2021 0 0 0

*As part of the Digital Europe Programme, the European Commission will develop Digital Europe Data Spaces. These data spaces will each have a specific sectoral focus. In each of those sectoral data spaces. In this article, we dive into the Green Deal Data Space.*

*In general, the data spaces will connect currently fragmented and siloed data from the private and public sectors. They will offer an interoperable processing, and a set of rules of legislative, administrative, and contractual access to and processing of the data.*

The Green Deal Data Space specifically, will link with other EU programmes such as [Horizon Europe](#), [Galileo](#), and [Copernicus](#) to provide large amounts of real-time data to:

- Provide relevant high-quality data from the activities related to high-value datasets; and
- Interlink to data from other sectoral data spaces where relevant; and

The Green Deal Data Space specifically, will link with other EU programmes such as [Horizon Europe](#), [Galileo](#), and [Copernicus](#) to provide large amounts of real-time data to:

- Provide relevant high-quality data from the activities related to high-value datasets; and
- Interlink to data from other sectoral data spaces where relevant; and
- Contribute to the [Destination Earth initiative](#), a very high precision digital model of the Earth to enable visualising, monitoring and forecasting natural and human activity on the planet in support of sustainable development.

Ultimately, this data space is to develop into a user-driven pan-European Green Deal data space by connecting EU programmes, national, regional and local data ecosystems at the EU level. To achieve this, the Commission established a number of deliverables:

1. A sustainable data governance scheme and blueprint that connects national, regional and local data ecosystems and enables public and private stakeholders to access relevant data and to develop cross-sector data services;
2. A priority list of datasets relevant to the European Green Deal Strategy;
3. A roadmap towards the common European Green Deal Data Space.

This roadmap should ensure that relevant users, such as climate and environmental scientists, are able to access and make use of the opportunities offered by Green Deal Data Space.

image credit:  
European Commission

### Tags

[digital transformation](#) [European Commission](#)



# Relations with many areas



#DigitalEU #DestinE #DigitalDecade #DigitalEUprogramme #EUGreenDeal #CopernicusEU

March 2022

Destination Earth (DestinE) will provide **unique digital modelling capabilities of the Earth** to enhance the EU's ability to **monitor** and model environmental changes, predict extreme events, and adapt EU actions and policies to climate-related challenges.

DestinE builds on EU investment in high-performance computing, massive space and socio-economic data sources at our disposal, and on the European excellence in data and AI technologies.



## Climate change costs

Globally, 2021 was the fifth warmest year on record. Last summer severe floods, heatwaves and other climate-related events claimed the lives of thousands of people across Europe. Climate change has caused at least **€12.5 billion** of economic damage in Europe between 2010-2019.



## A Lead for Europe

DestinE will provide evidence-based support for EU and Member State policy makers at all levels on EU environmental adaptation strategies and mitigation actions and policies, thus contributing to the digital and green transformation of Europe.

## DestinE Actors

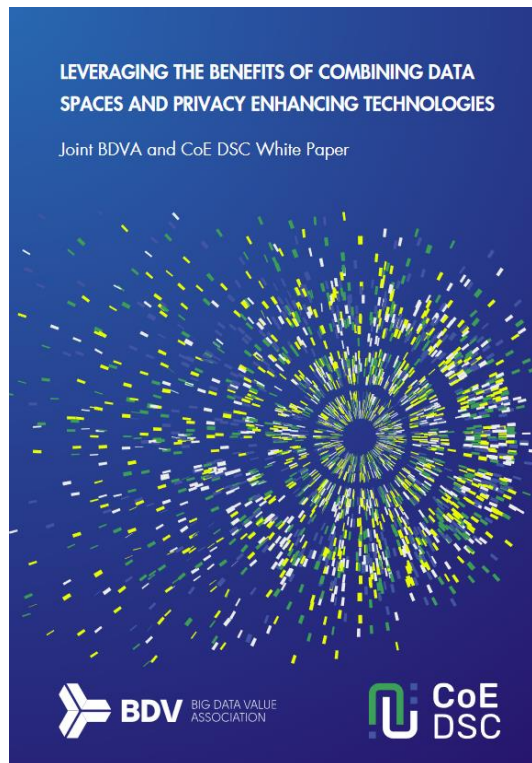


The **Commission** leads in coordination with Member States and Associated Countries  
[European Space Agency \(ESA\)](#)  
[European Centre for Medium-Range Weather Forecasts \(ECMWF\)](#)  
[European Organisation for the Exploitation of Meteorological Satellites \(EUMETSAT\)](#)

## Key components of DestinE system

### Core service platform

The core platform will provide decision-making tools, based on an open, flexible, and secure cloud-based computing system. It will bring together data, cloud, and high-performance computing and it will integrate access to digital twins. It will be operated by the European Space Agency (ESA).



## Privacy Enhancing Techniques



# Requests for action, funded by EU



## Digital Europe Programme (DIGITAL)

Call for proposals

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

Version 1.0  
15 February 2024

## DIGITAL-2024-CLOUD-AI-06-GREENDEAL— European Green Deal Data Space

### Objectives

The objective of this action is to deploy an operational Green Deal Data Space (GDDS). The Action is expected to take into account the latest developments in the data strategy and green deal landscape including the results of the Coordination and Support Action on "Preparatory actions for the Green Deal data space"<sup>3</sup>, funded under the WP 2021/22. It should also take into account the results from the Horizon Europe projects funded under HORIZON-CL6-2021-GOVERNANCE-01-17: Common European

Budget for GDDS in this call:  
16 million euro

CBS participates in SAGE consortium  
(70 partners) on Circular Textile  
use case (led by TEXroad)

Overall EU budget for CEDS:  
2 billion euro (!)

The inclusion in the proposal(s) of concrete use cases that benefit citizens and businesses and especially SMEs will be **considered an asset** in the evaluation process. Applicants are encouraged to consider the following **examples and guiding directions**:

- Collecting data for calculating certain forest indicators is essential in order to **monitor pressures and hazards encountered by forest eco-systems**.<sup>8</sup> The GDDS could enable access to Earth Observation and National Forest Inventories (NFI) data for calibrating geospatial machine learning models that underpin development and delivery of forest indicators. The GDDS should deploy confidentiality preserving technologies to ensure confidentiality for the plot locations of the NFI data. Proposals could also explore how access to Earth Observation and NFI data can be the basis for new downstream services benefitting the broader forest economy. Similar use cases that seek to allow access to certain environmental data-sets considered confidential in order to train machine learning models are also encouraged.
- In a **circular economy for textiles**, there is a need to close material and data loops along the value chain. The GDDS could contribute by designing and deploying a **Producer Responsibility Organization Information System (PRO-IS)**<sup>9</sup> as a complement and interface with the Digital Product Passports (DPPs). For instance, the PRO-IS could close data loops via collecting and feeding DPPs of newly manufactured textiles with information on the recovered/ recycled fibres content. Involving actors from the textile, waste and digital sectors for such a use case would be important.
- **Sustainability reporting and due diligence** along supply chains and operations helps private operators assess and disclose their environmental and sustainability performance while complying with legal obligations<sup>10</sup>, which can become a competitive advantage in the sustainability race. The GDDS could support private operators in their journey to collect, verify and share "data-points" across their value chains, to calculate scope 3 GHG emissions, deforestation caused by





# The European Health Data Space



[Home](#) > [Press](#) > [Press releases](#)

Council of the EU | Press release | 15 March 2024 01:10

## European Health Data Space: Council and Parliament strike deal

*This press release was updated on 22 March 2024 to include the link to the compromise text*

The Council of the EU and the European Parliament have reached a provisional agreement on a new law making it easier to **exchange and access health data** at EU level. The agreement will now need to be endorsed by both the Council and the Parliament.

The proposed regulation for a **European Health Data Space (EHDS)** aims to improve individuals' access to and control over their personal electronic health data, while

[Provisional agreement on a new law](#)

After months of hard work and dedication, the Council and the Parliament have a deal that will strongly support the development of health and scientific research in Europe. The agreement agreed on today will allow for the exchange and access to health data wherever it is held, providing scientific and medical research with the reasons of public interest. This will greatly benefit health policies.

— Frank Vandenbroucke, Belgian Deputy Prime-Minister and Minister of Health

## Easier access to health data for individuals

Under the new rules, individuals will have **faster and easier access to electronic health data**, regardless of whether they are in their home country or another member state. They will also have **greater control over how their data is used**. EU countries will be required to set up a **digital health authority** to implement the new provisions.

Greater research potential

Health Data  
Access Body





university of  
 groningen



Centraal Bureau  
voor de Statistiek

# Granting access to health data for secondary purposes – ‘Good governance’ assessment of legal schemes for Dutch Health Data Access Body

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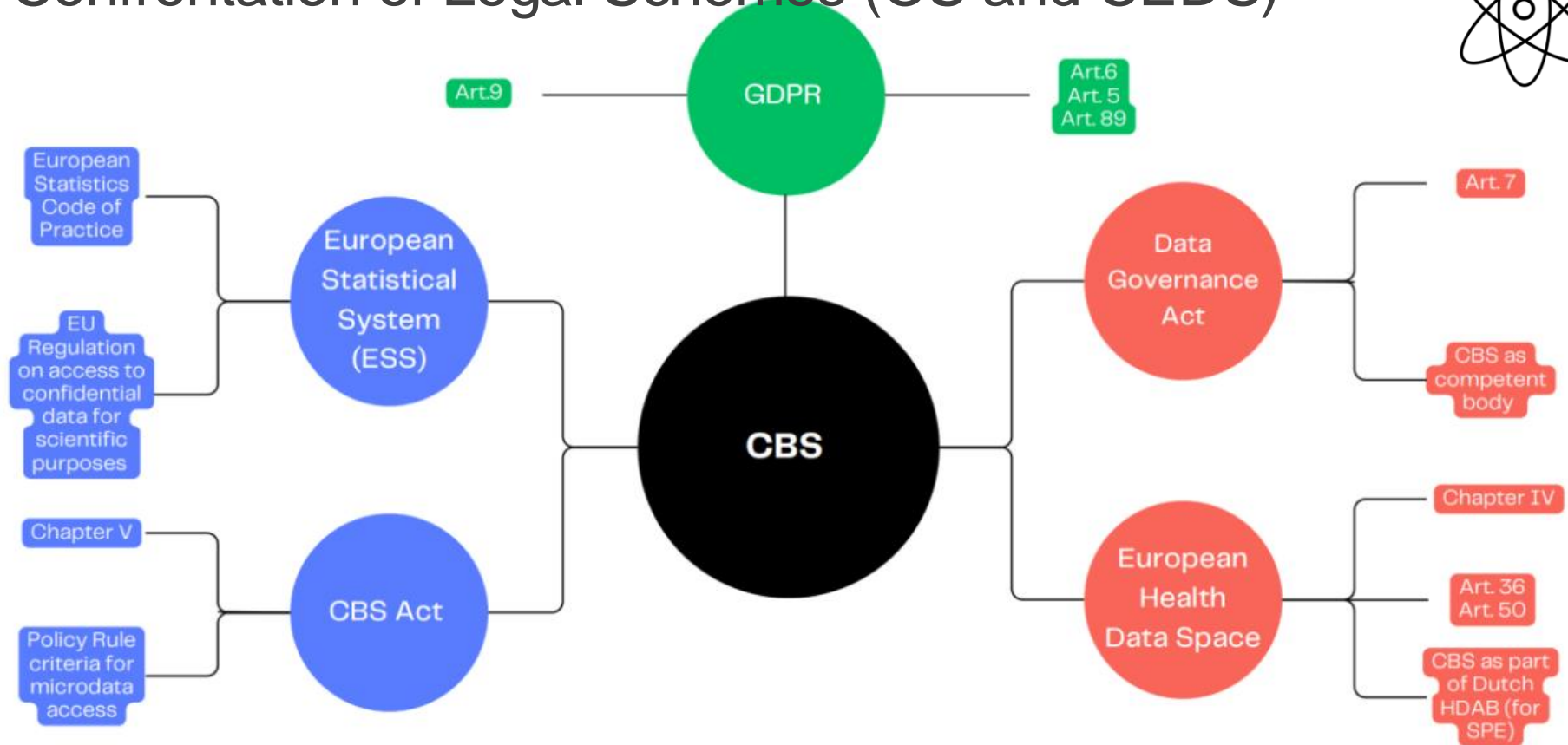
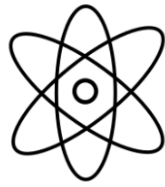
*MASTER THESIS PROJECT WITHIN RESEARCH INTERNSHIP AT CBS*

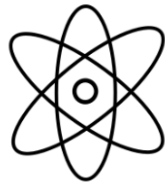
*ANASTASIJA SPAJIC*

*A.SPAJIC@STUDENT.RUG.NL*

*28.08.2023*

# Confrontation of Legal Schemes (OS and CEDS)





# Conclusions

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- **Both legal schemes fulfill good governance.** Decision on the most apt framework depends on interests of decision-makers and weighing the challenges.
- **Lack of adequate, pre-established EU principles** that would guide data governance frameworks
- **Complexity of the interplay of legal frameworks:**
  - EU level ambiguity between EHDS and DGA.
  - New legal initiatives implemented without resolving issues with existing frameworks like the GDPR.
  - Interplay between ESS and DGA underexplored.
  - Extensive research conducted on the GDPR given its revolutionary nature but little attention has been given to the ESS and pre-existing frameworks that also govern access to data for research purposes.

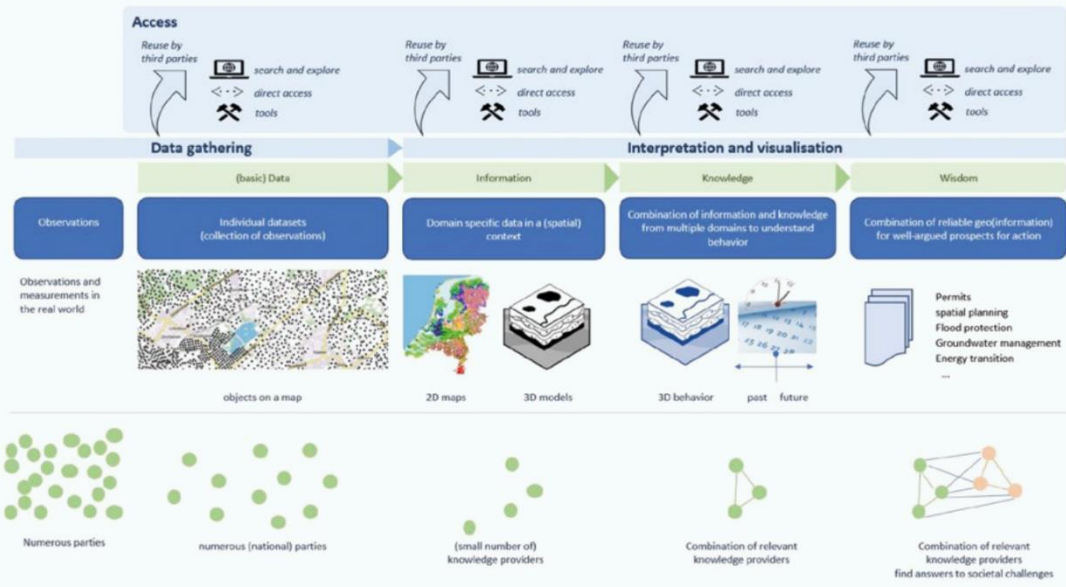
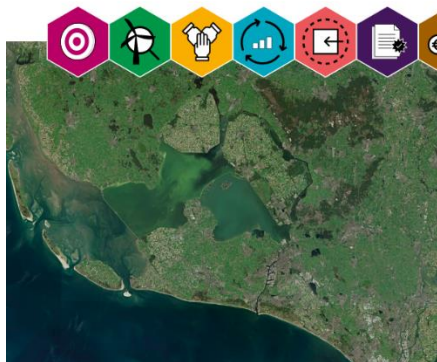
# The Dutch Data Space for the Physical Environment



Multityear Vision of the Council for Geo-information (2023)

## View of the Netherlands

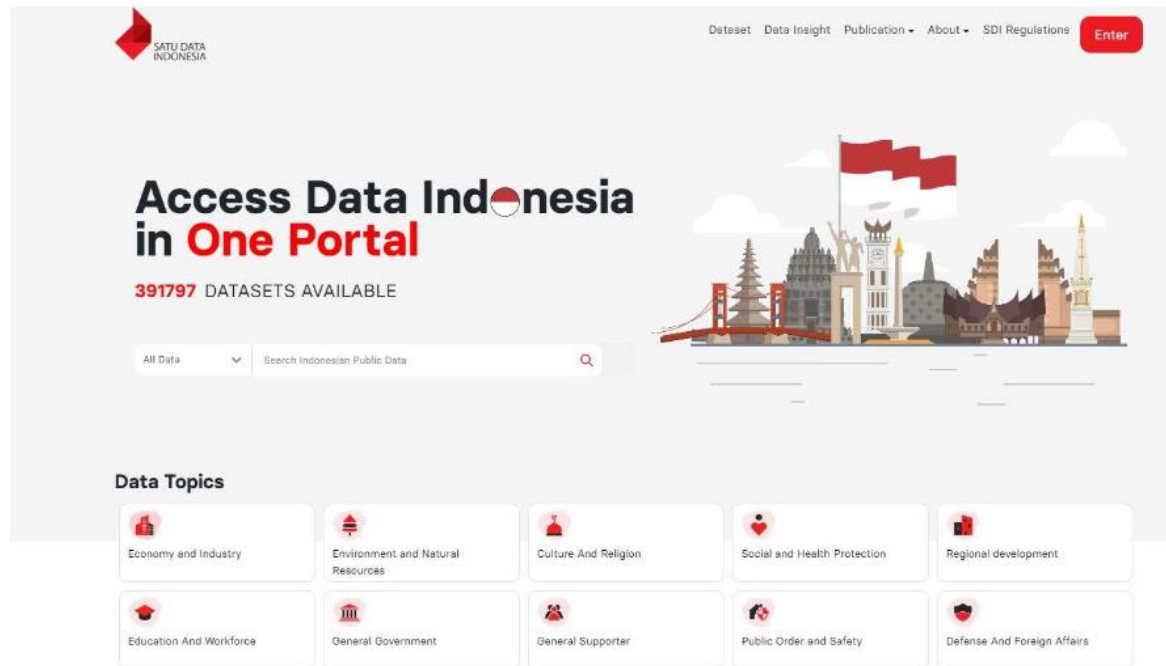
A new geospatial strategy for the Netherlands



- Document available [here](#)
- Part of Dutch [Intergovernmental Data Strategy](#)
- Federated Data System



# Not only in Europe 😊



A data governance policy to produce data that is accurate, up-to-date, integrated and accountable, as well as accessible and easy to share between government agencies in national level and regional agencies in sub-national levels, through compliance of the principles: standard data, metadata, data interoperability, and using reference code and master data.

**One Data Indonesia**



# Many aspects to take into consideration...



## **Stakeholder Engagement**

Comprehending the needs and concerns of both internal and external stakeholders.



## **Sector and domain-specific applications**

Customize initiatives and policies to tackle the distinctive challenges and prospects within each realm.



## **Governance**

Establishing a robust governance and regulatory framework is essential for effectively overseeing the operations of CEDS.



## **Interoperability and data sharing**

Enabling seamless data exchange and collaboration within CEDS and across other data spaces.



## **Organizational Capabilities**

Building the capacity of stakeholders (particularly internal stakeholders and close partners) to effectively participate in CEDS.



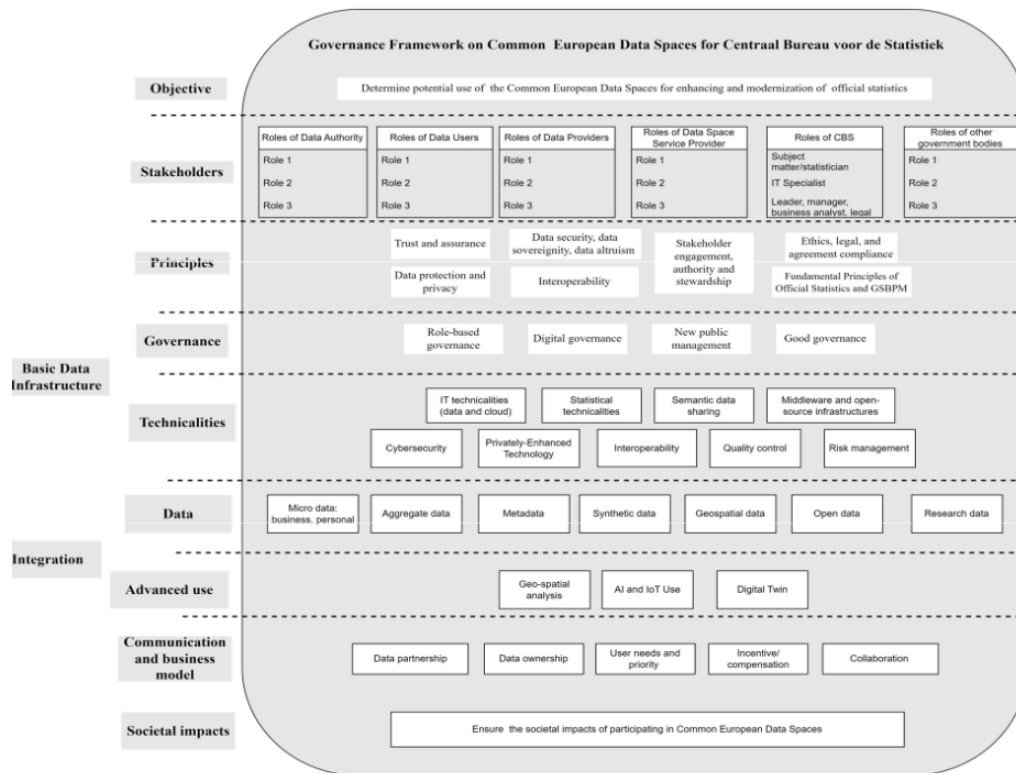
## **Collaboration**

Collaboration with national and international partners and organizations is essential to align policies, share best practices, and address common challenges

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March 2024



# How to make choices?



## PROPOSED GOVERNANCE FRAMEWORK FOR CBS

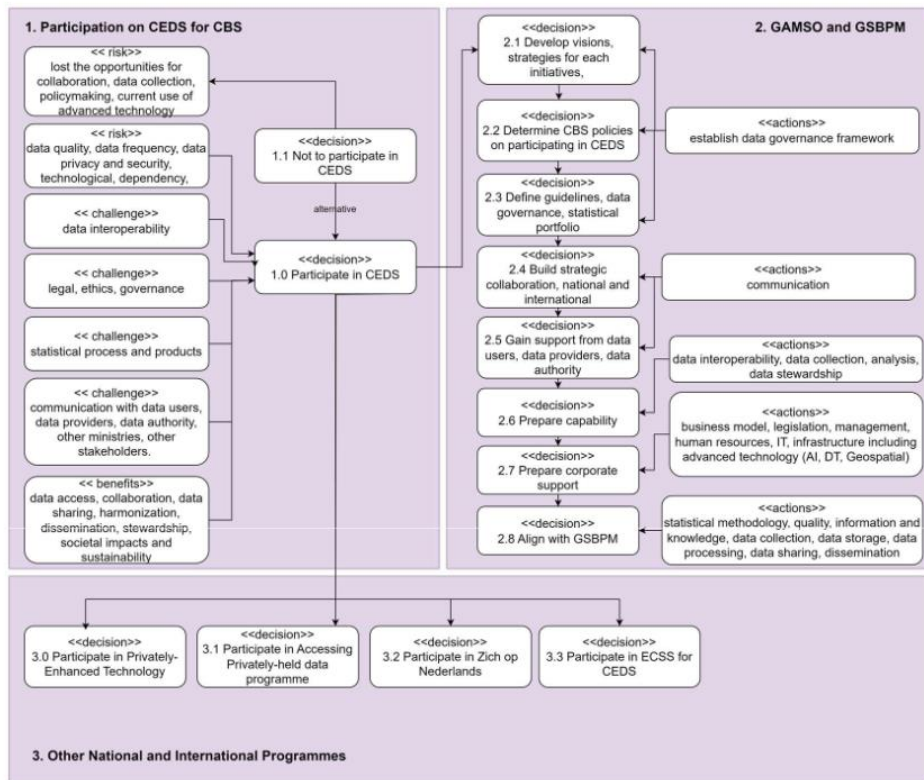
Set of policies, guidelines, rules, actions on data governance; to provide comprehensive overview, ensure the benefits, and mitigate the risks.

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March 2024





# Questions and decision trees



**How to implement?**

## DECISION RELATIONSHIP VIEWPOINT

Describe the relationship of each decisions on participating on CEDS for CBS with GAMSO, GSBPM, and other programmes.

It helps CBS to track decisions for transparency, accountability and clarity.

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March 2024**



# Take-aways

- ❖ A lot of activity, often domain-specific
- ❖ Many stakeholders involved -> **Data is a team sport**
- ❖ What's in it for Official Statistics?
- ❖ (Do we need a statistical data space?)
- ❖ Important to join the discussions!
- ❖ Outside our comfort zone?
- ❖ **Data spaces lead to broader strategic questions**





**Facts that matter**