

Vlaamse Smart Data Space

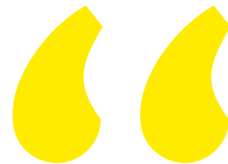
VSDS

**DIGITAAL  
VLAANDEREN**



**Vlaamse  
overheid**





DIGITAAL  
VLAANDEREN



Vlaamse  
overheid

## Water, Electricity and Data

Accessible, safe and standardized networks, with high performance

Make sure innovation and new applications can thrive for society with  
increase the data economy and help realise ambitious policy  
objectives

- 
1. Introduction and European Framework
  2. What is a **Data Space**
  3. The '*Vlaamse Smart Data Space*'
  4. Domain-specific use case: Vlaamse Water Data Space

# The European data-strategy

A common European data space, a single market for data



# Policy framework of the European data-strategy

## 4 key instruments

**Jun 2022**  
Data  
Governance  
Act

Ensure **TRUST** in data transactions

Public sector data, private sector data and personal data voluntarily made available by data holders

**Okt 2022**  
Digital  
Markets  
Act

Regulate **MARKET POWER** based on data

Personal data and private sector data held by large online platforms ('gatekeepers') and originating from users (both businesses and individuals) must be used in fair ways

**Q1 2023**  
Impl. Act.  
High Value  
Datasets

Unleash the socio-economic potential of data as a **PUBLIC GOOD**

Public sector data of high value made available through APIs

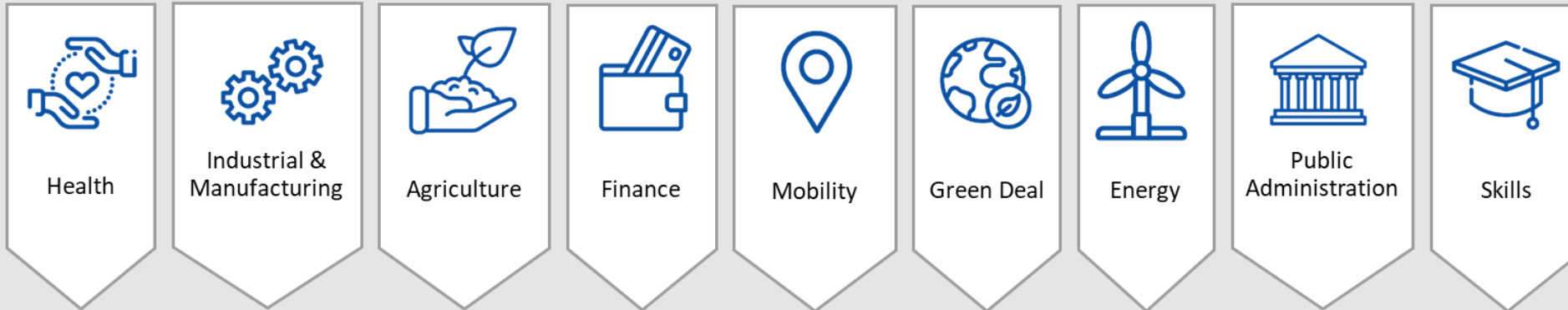
**Q4 2023**  
Data Act

Ensure **FAIRNESS** in the allocation of data value among the actors of the data economy

Private sector data, personal data and co-generated (IoT) data



# Common European data spaces



- Driven by stakeholders
- Rich pool of data of varying degree of openness
- Sectoral data governance (contracts, licenses, access rights, usage rights)
- Technical tools for data pooling and sharing

## Data Spaces Support Centre

Coordinating the development of data spaces

Assuring common standards and interoperability

## Technical infrastructure for data spaces



Edge & cloud  
Services

Smart  
Middleware  
solutions

Marketplace

High-Performance  
Computing

AI on demand  
platform

AI Testing and  
Experimentation  
Facilities

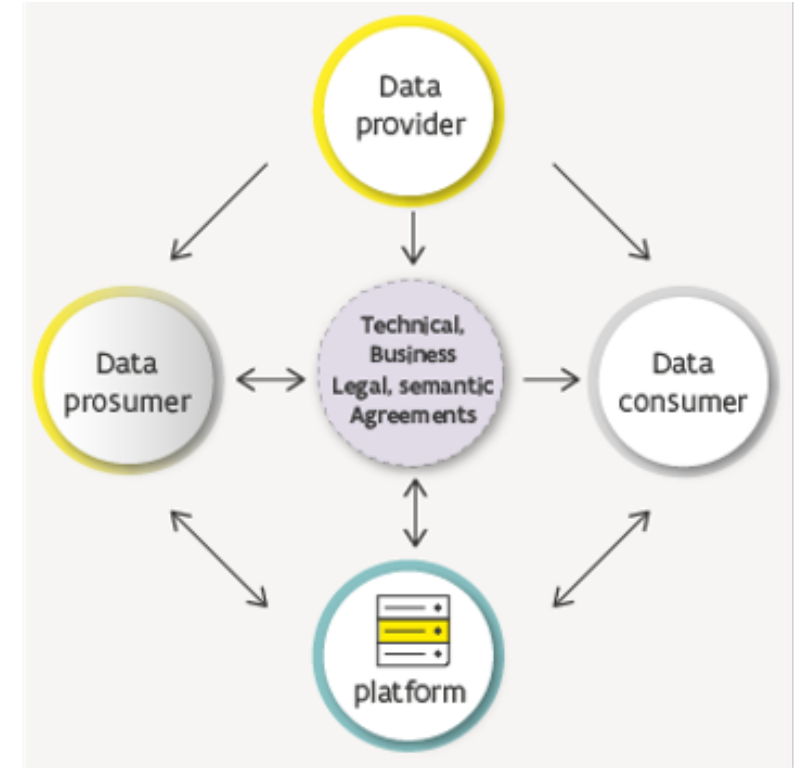
# Wat is een data space? *conceptual*



Bilateraal, ad-hoc

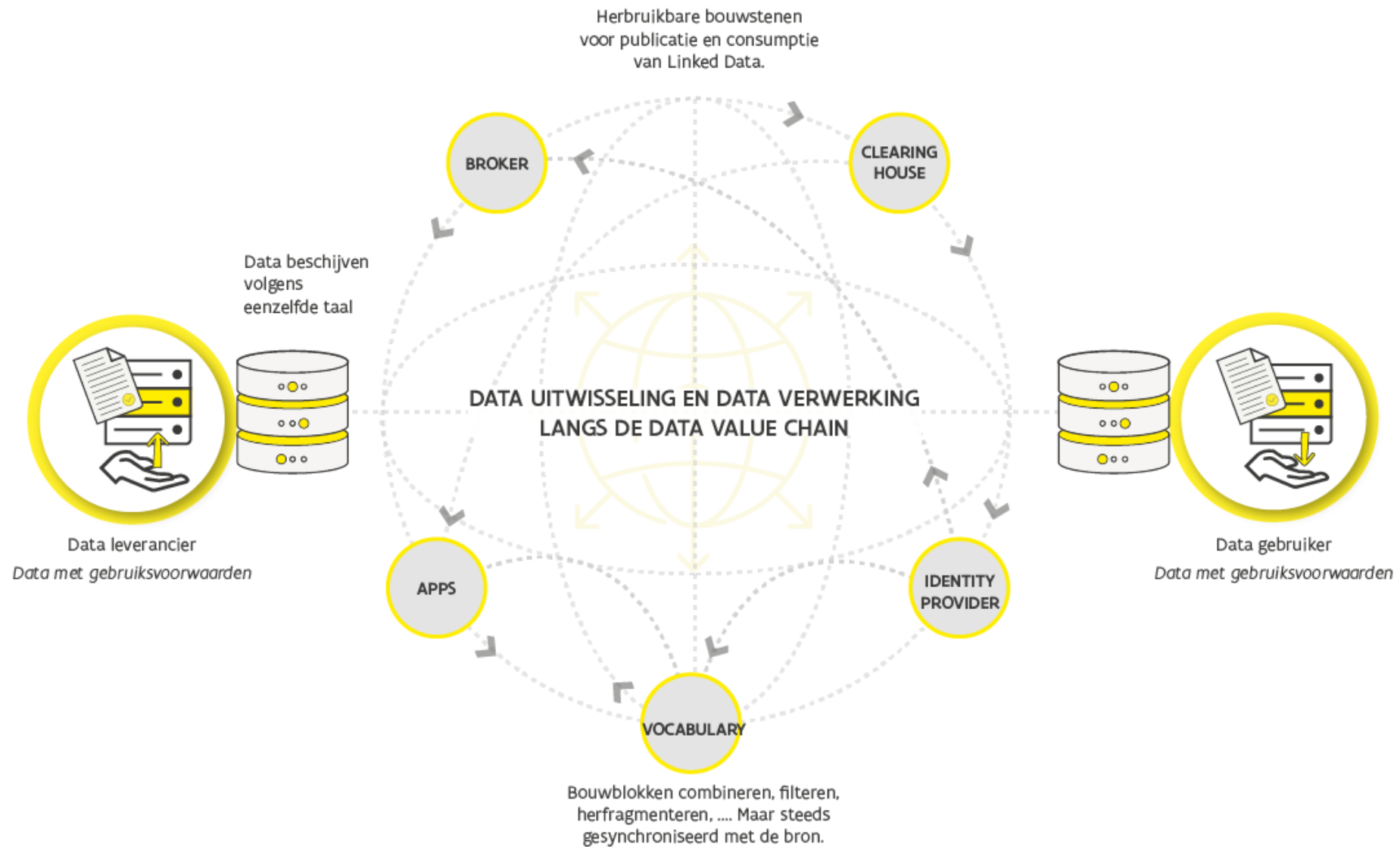


Platform



Data space

# Wat is een data space? *architectural*





# Vlaamse Veerkracht

RELANCEPLAN VLAAMSE REGERING

1

*Digitale transformatie* is één van de zeven speerpunten relanceplan 'Vlaamse Veerkracht'

2

...investeren in een **Vlaamse Smart Data Space** met als doel sensordata *interoperabel, kostenefficiënten schaalbaar* te ontsluiten, beter vindbaar en vlotter herbruikbaar te maken.

3

...uitwerken van **duurzaam financieringsmodel** na de relance impulsfinanciering. Vanuit het ecosysteem gaan we op zoek naar use-cases en toepassingen die hierin passen...



# VLAAMSE SMART DATA SPACE



NIEUWE BUSINESS MODELLEN - PUBLIEKE EN PRIVATE SPELERS



## INTEROPERABEL

De mogelijkheid van verschillende systemen om met elkaar te communiceren en interageren.



## DECENTRAAL

Wij faciliteren, verantwoordelijkheid ligt bij aanbieders en afnemers van de data.



DATA GEBRUIKERS



## WORKBENCH

Herbruikbare bouwstenen voor publicatie en consumptie van Linked Data



DATA LEVERANCIERS



STANDAARDEN

Semantisch (OSLO)  
Technisch (LDES)



ECOSYSTEMEN

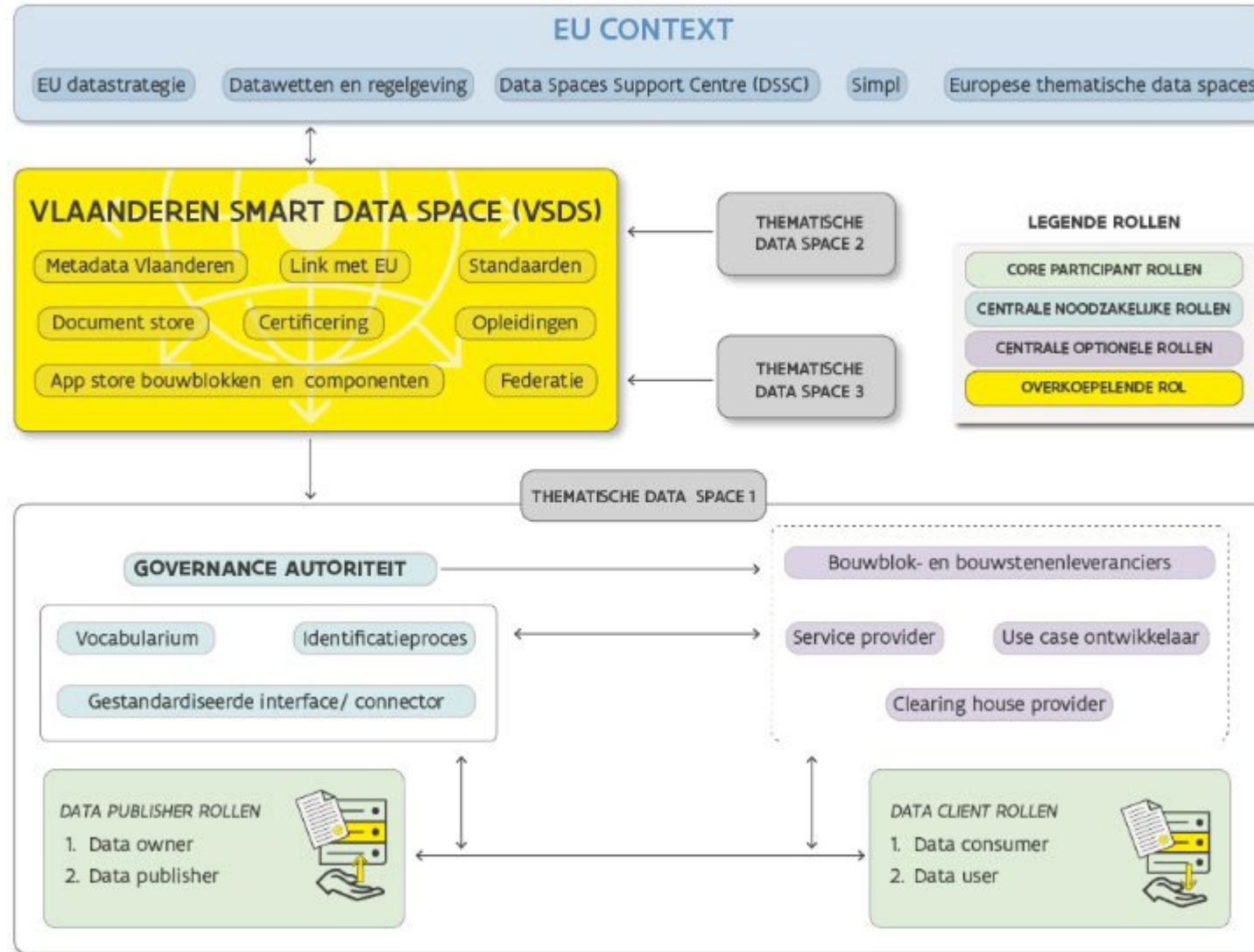


GOVERNANCE

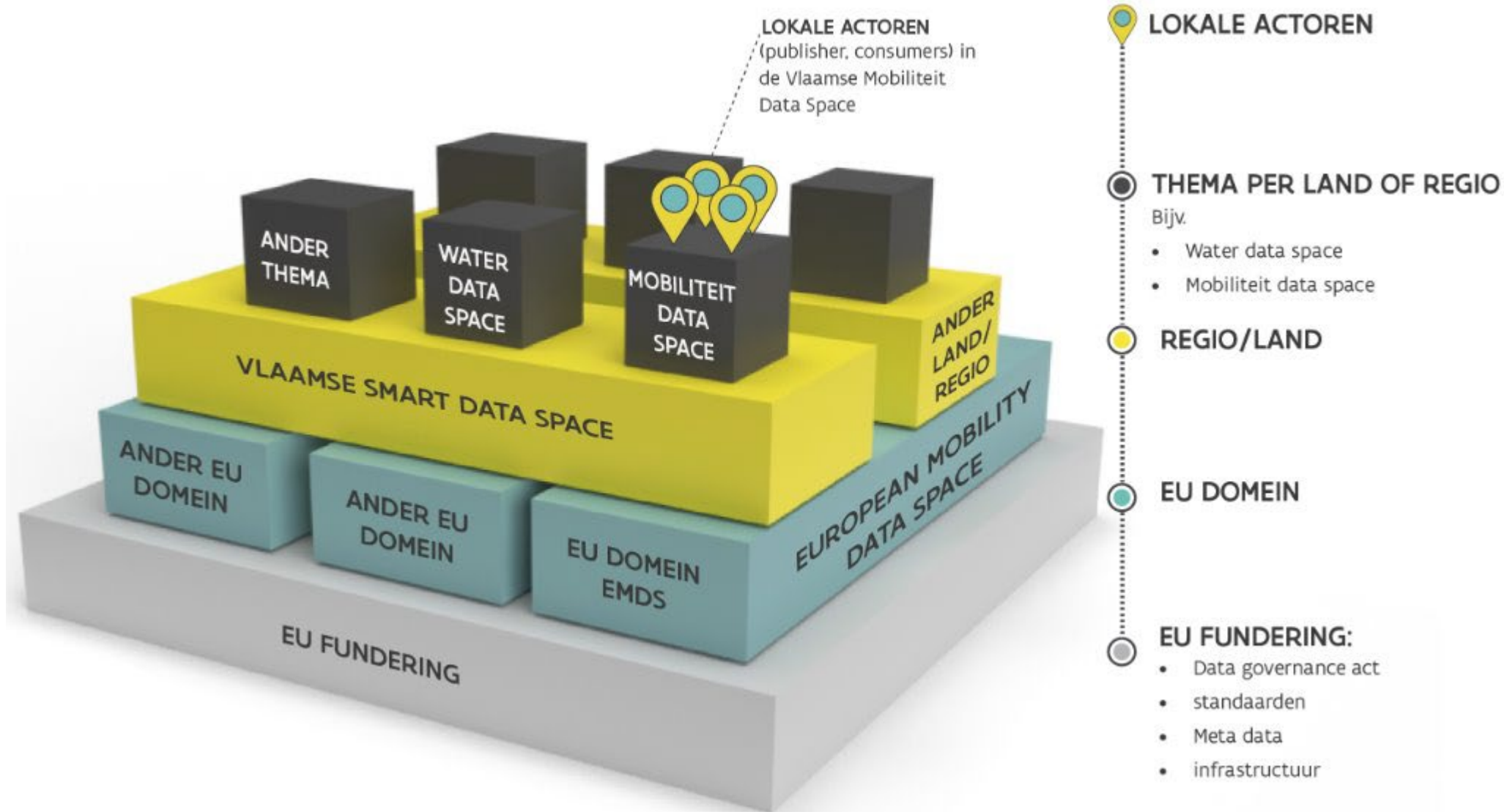
# Core principles *VSDS*



# Governance roles *VS*DS



# Vision VSDDS





## - Vlaamse Water Dataspace -



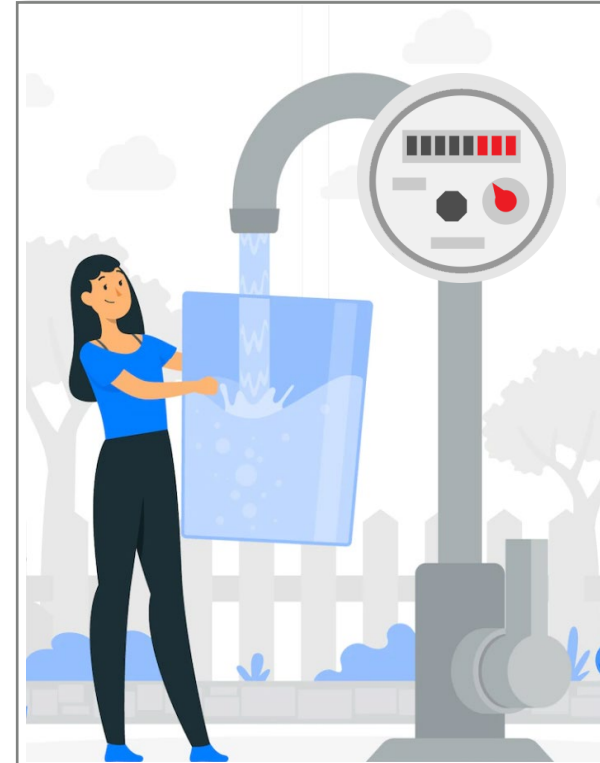
### Opzet Water Data Space

Identificatie stakeholders en usecases water (ism CIW Data & Digitalisering)



### IoW – Sensoren waterkwaliteit MVP

'Virtueel' verdichten meetnetwerk watersensoren



### Slimme Watermeter

Data digitale watermeter ontsluiten in de VSDS

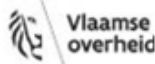


# Vision and Action Plan Vlaamse Water Data Space

Coördinatiecommissie  
**Integraal Waterbeleid**



CIW leden



De CIW platform “data en digitalisation” needs a data-ecosysteem:

- defined by a sector, decentral infrastructure enables trustworthy data sharing
- Part of the Vlaamse Smart Data Space
- Should evolve towards ‘the place to share water data in Flanders’
- Focus watersector but VSDS creates opportunities for collaboration with data spaces from other sectors/regio's
- common agreed capabilities:
  - Water Governance Charter
  - Radical Use-Case (drought, water quality, marketplace)
  - Semantic Technical buildign blocks (OSLO, LDES)

# MareGraph Project: Towards an Interoperable Marine Knowledge Graph



GOAL: Increase interoperability of datasets (semantic, technical, legal, organizational)

- Marine Biology Resources managed by VLIZ (Marinergions, Marinespecies, EurOBIS)
- Use common methodology (OSLO) in European context
- Common agreed capabilities:
  - Semantic Assets (ontologies and controlled vocabularies)
  - Technical buildign blocks (LDES)
- Become an interoperable part of 'Water Data Spaces'



Thank You

## More Information VSDS-Portal

Website waar de business meerwaarde én technische informatie te vinden zijn.

<https://www.vlaanderen.be/vlaamse-smart-data-space-portaal>

