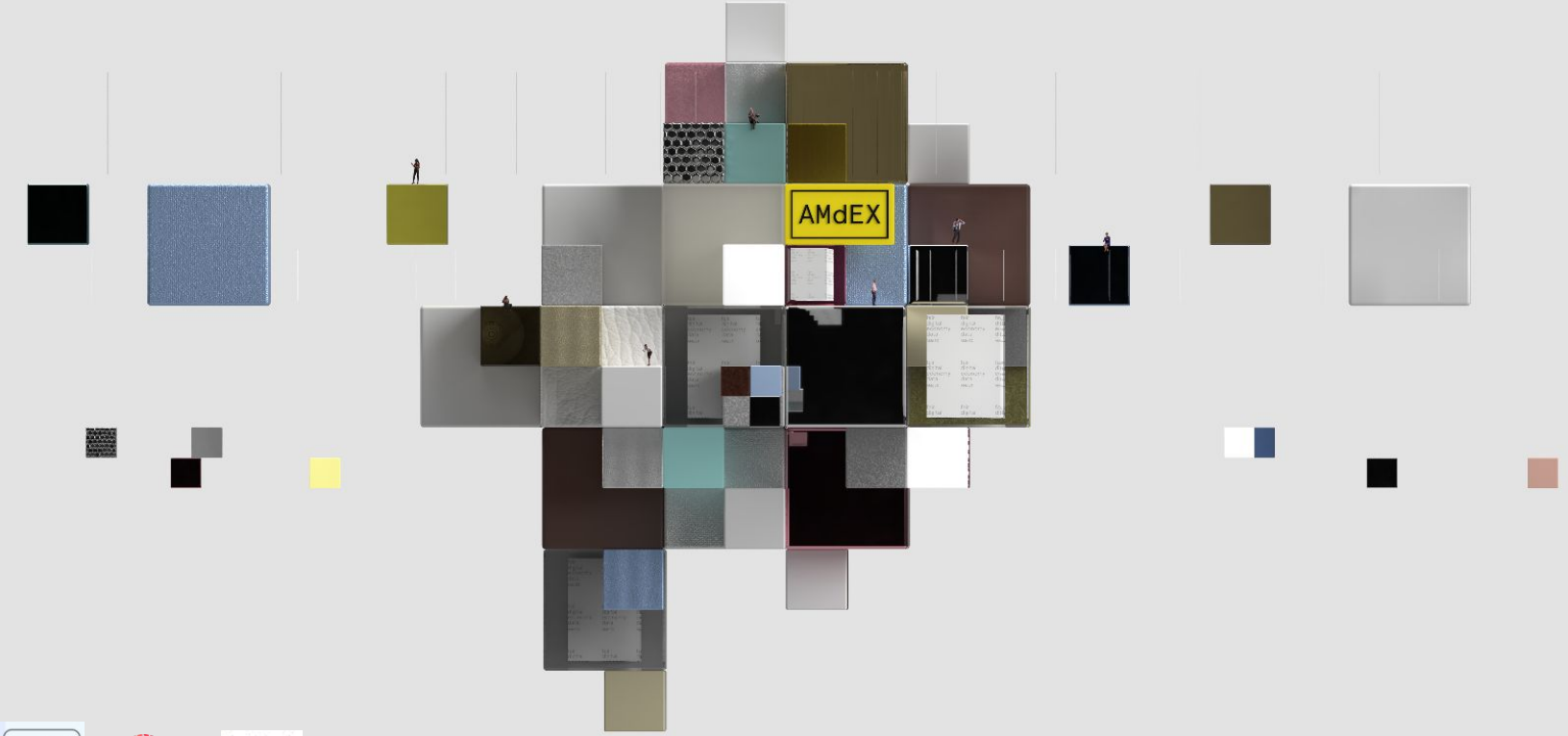
Sharing sensitive Smart building sensor data on AMdEX



In samenwerking met:

kpn FA iSHARE deXes luminis.

European Union
European Regional Development Fund

Sensoren op het publieke terreinen Amsterdam







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amsterdam

Swimming & Sport

- water quality (BACTcontol)
- water temperature (Celcius)
- UV index ,
- air temperature,
- air quality

Busyness

- Picnic
- Boardwalk,
- Terraces,
- Fitness Garden,
- Total Occupancy on MT
- https://www.mt-dashboard.nl

Biodiversity

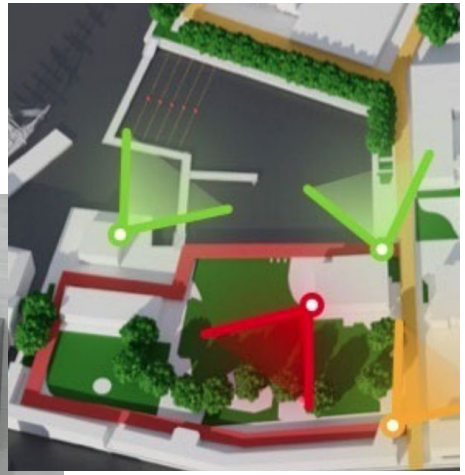
- Light Meter,
- Air Temperature,
- Evaporation rate,
- Moisture Level,
- pH balance, etc.

AMdEX

Sensoren in gebouwen







Smart building data voor facility management



Building

Cleaning Services

Data Subject

Client of Cleaning Company

1

Cleaning Company

Acting Party



H20 esports

Succes

kpn

Haltian

OPHARDT HYGIENE

FacilityApps ready for the future

2

5

Sensors

Data Service Provider

3

4

Software Supplier

Data Service Processor

Sensor insights

Sensor data

Gebruik Sensor data van publieke terreinen

DATA USER

Aurore Paligot (data journalist)



DATA OWNER

Intermediary

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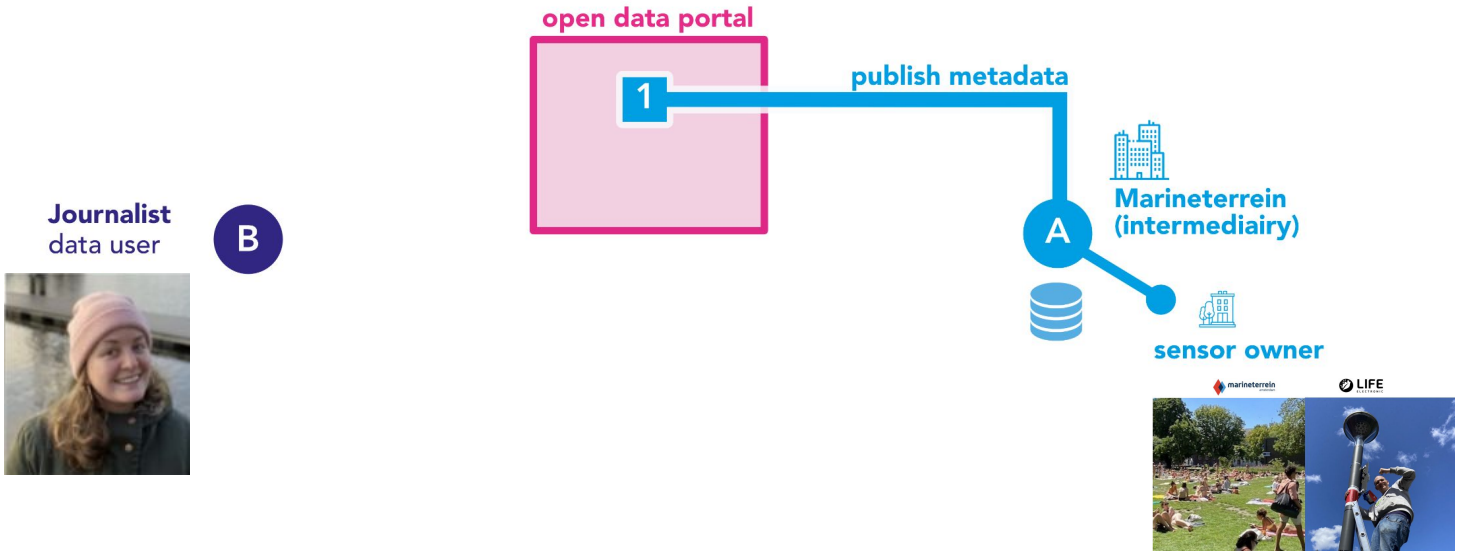
Data Collector

LIFE ELECTRONIC

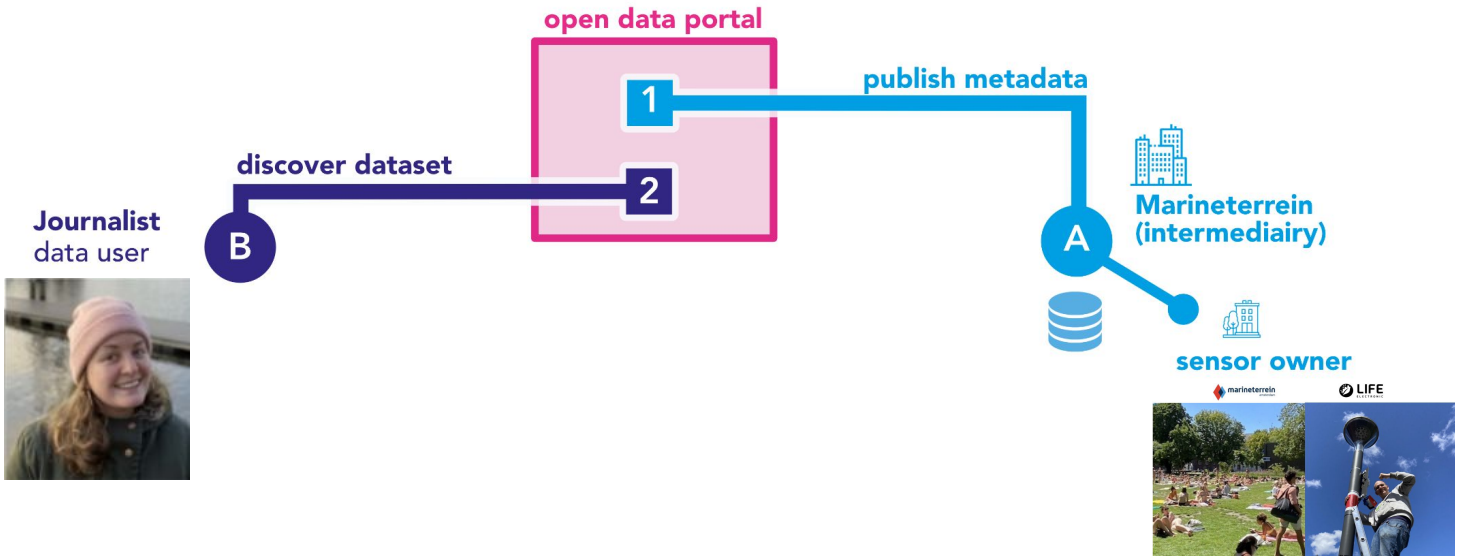




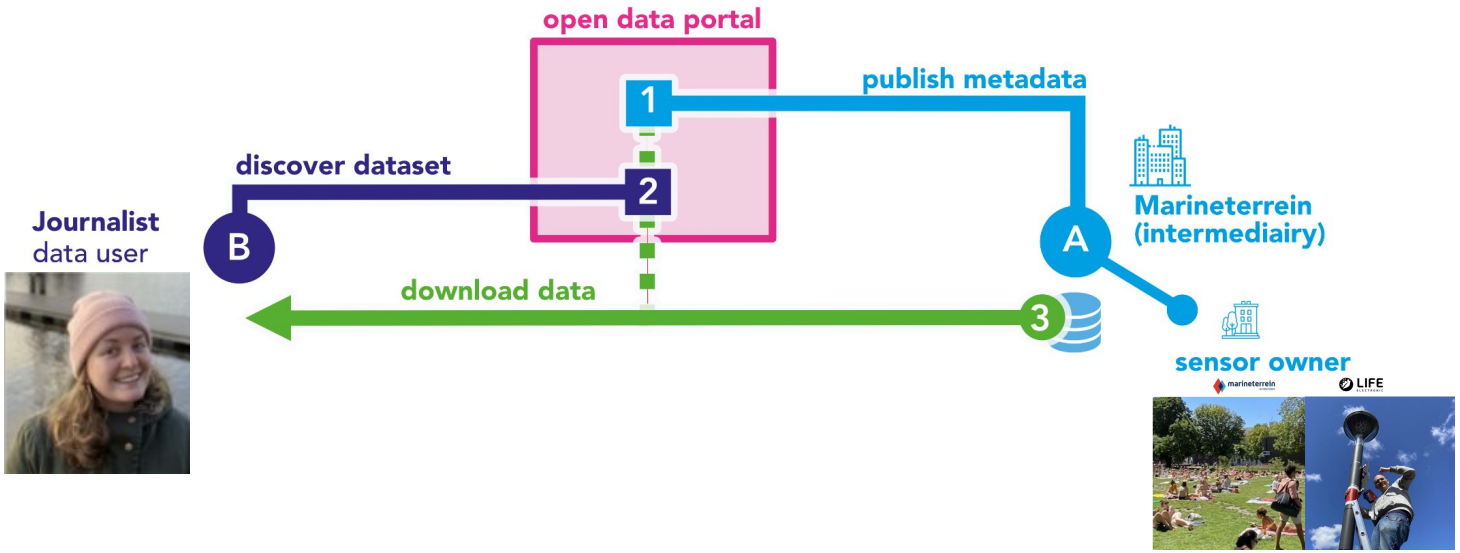
Hoe we data normaal delen



Hoe we data normaal delen

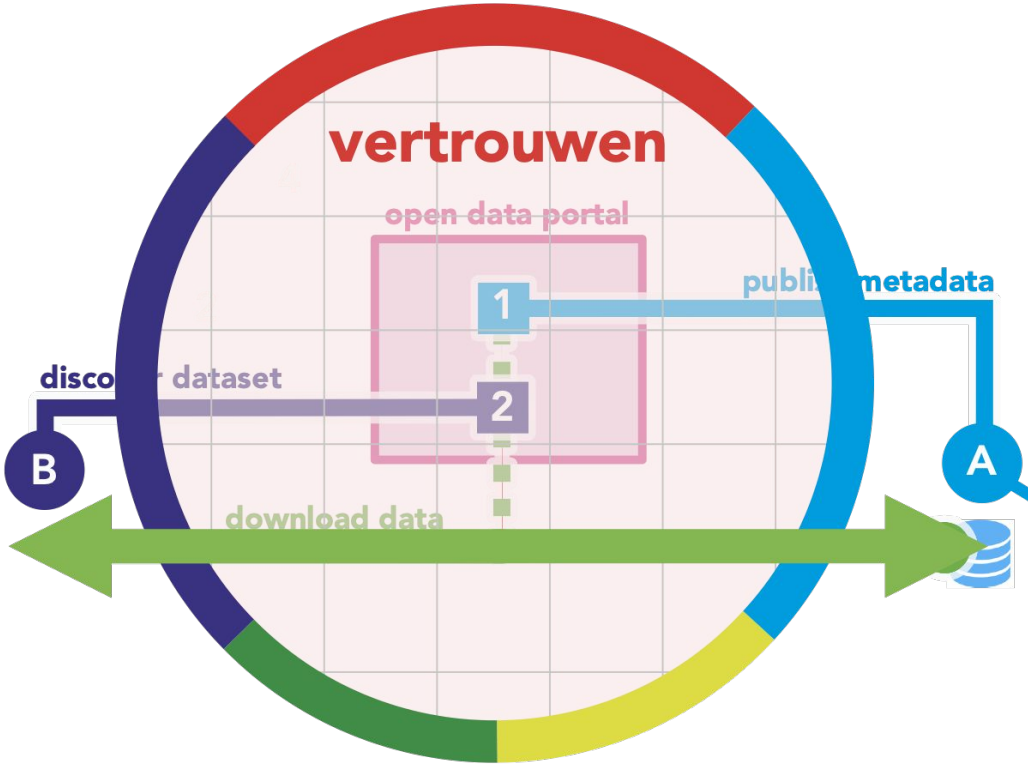


Hoe we data normaal delen



Gevoelige data delen: vertrouwen organiseren



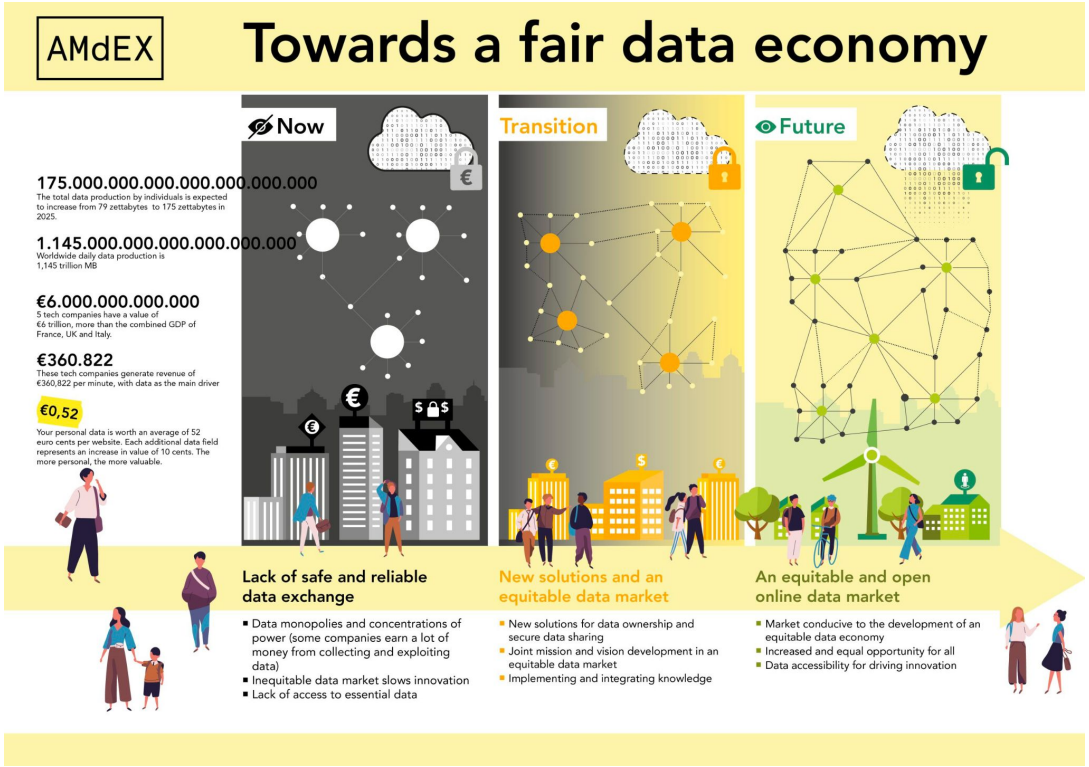


AMdEX

Marineterrein
(intermediairy)



AMdEX - delen van gevoelige data



AMdEX

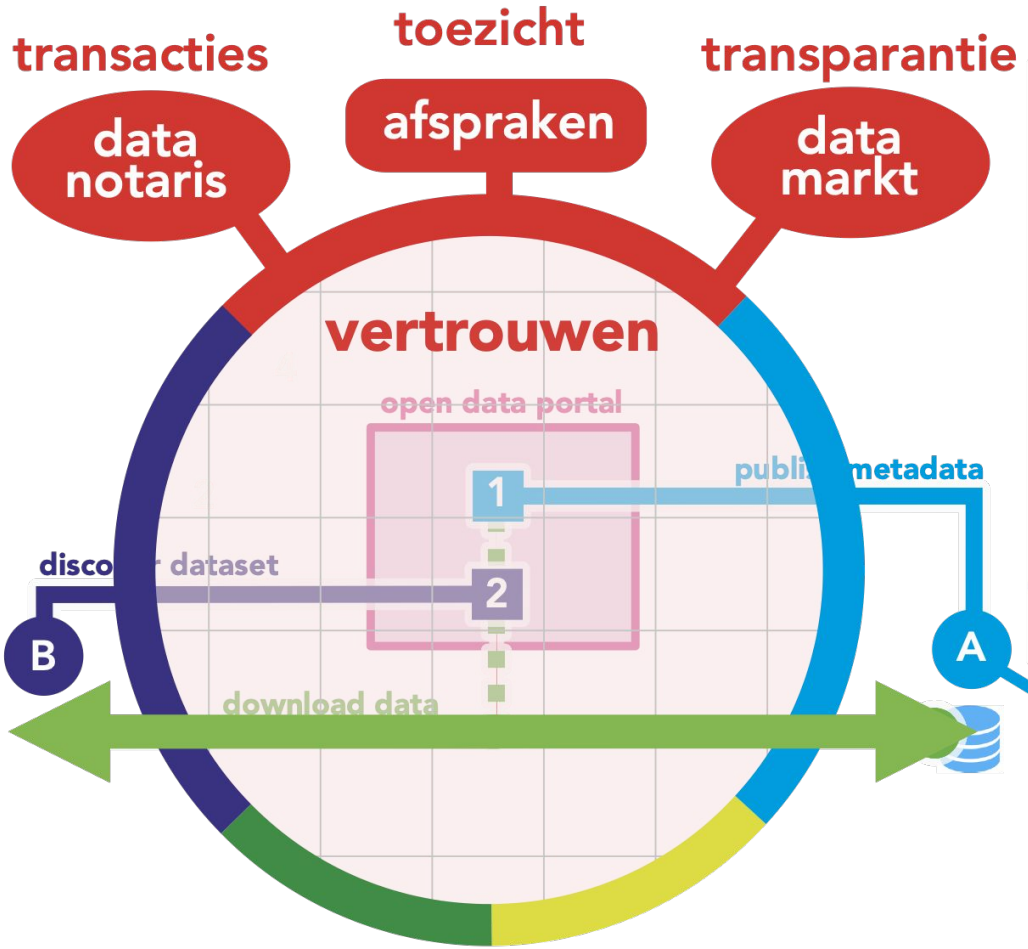
amsix

Amsterdam Economic Board

SURF deXes

Co-funded by the European Union



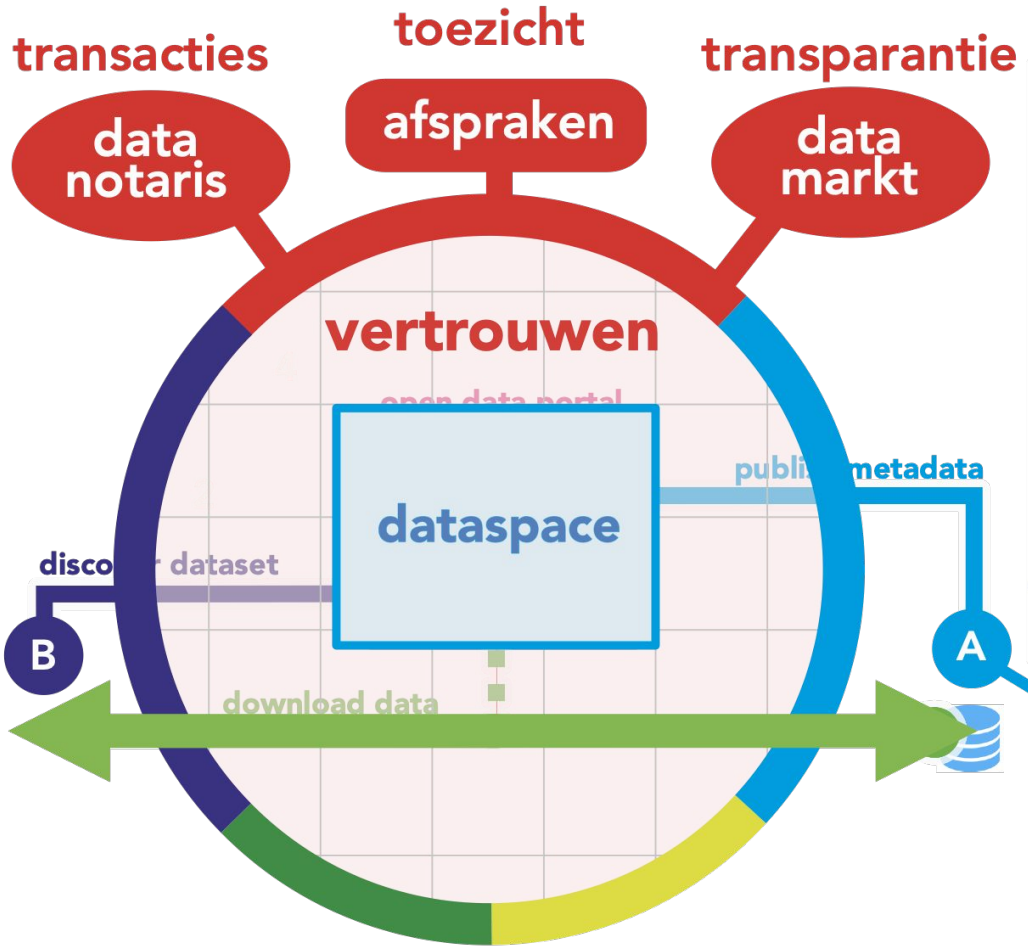


AMdEX

Marineterrein (intermediairy)





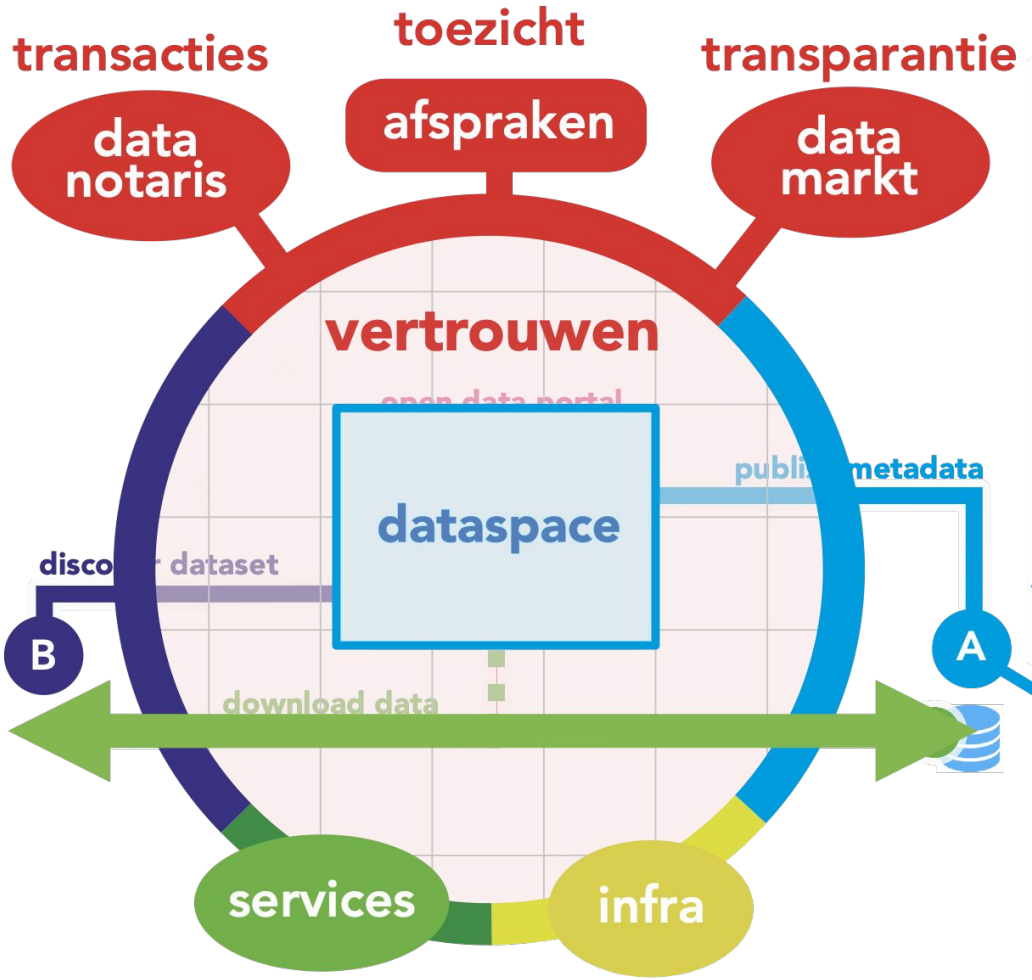


AMdEX

Marineterrein (intermediairy)







Marineterrein (intermediairy)



AMdEX

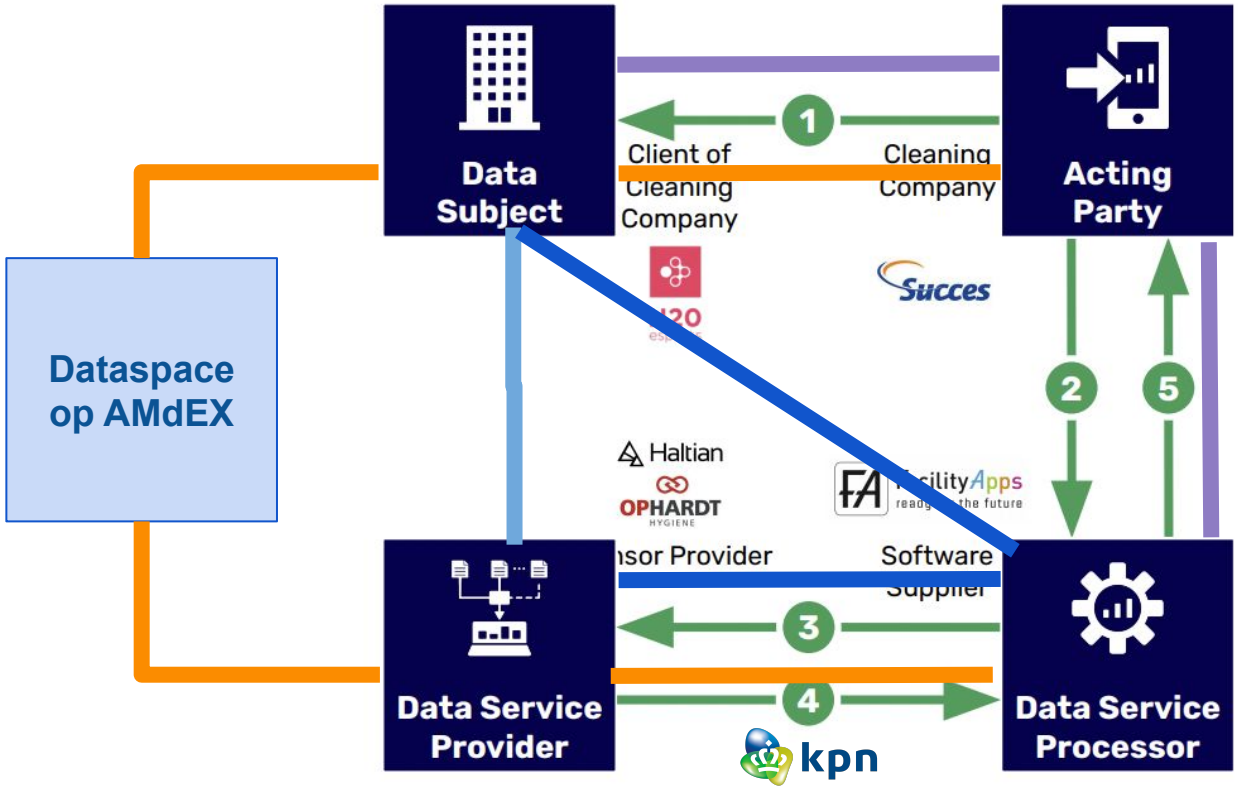
tools voor datadelen

Uitdagingen sensor data gebouwen + terreinen

- Privacy en commercieel gevoelig
- Wie deelt met wie en onder welke afspraken?
- Standaardisatie datastromen - moeilijk te schalen
- Meer doen met dezelfde hoeveelheid mensen
- Eindgebruiker is geen data professional

Wie is de data eigenaar eigenlijk?

Veel afspraken per partij per situatie



When party joins the consortium

When sensor is installed

When software application is licensed

When cleaning service is started

Experimenten 1: legal engine



Helpen met kiezen van policies

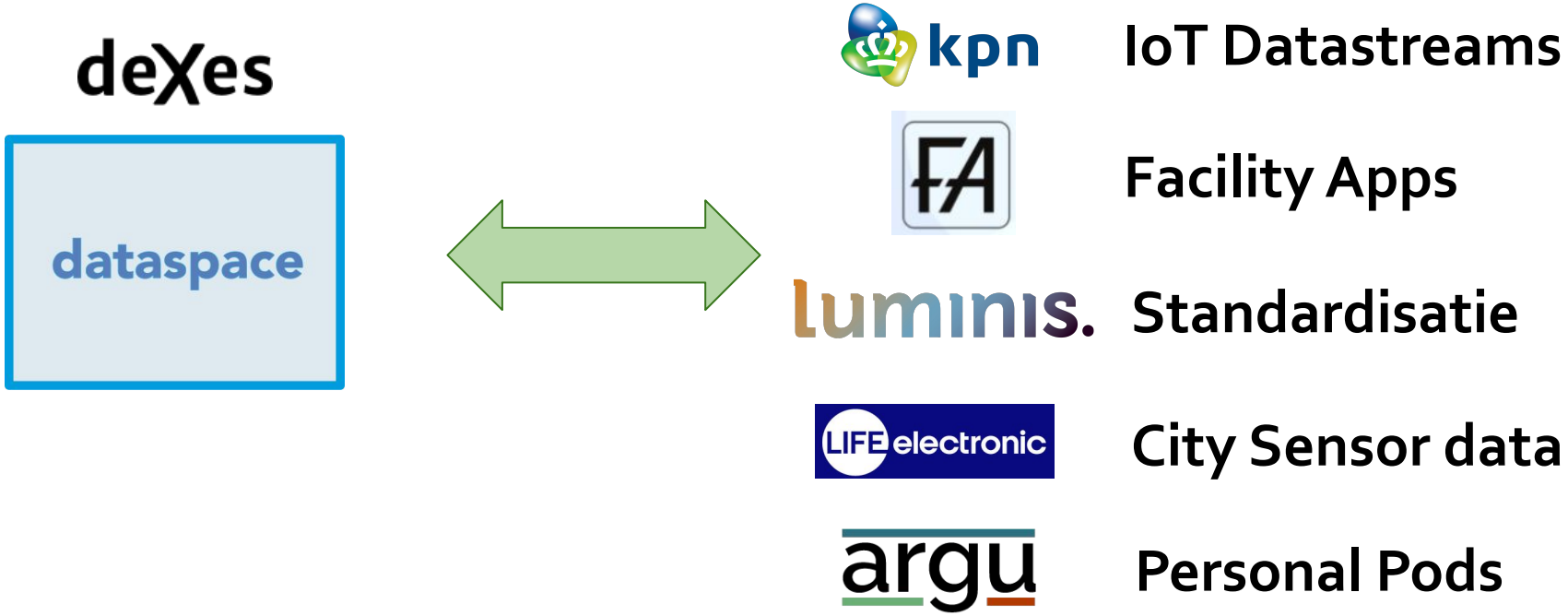
Contract met datadeel afspraken

Mens- en machine leesbare policies



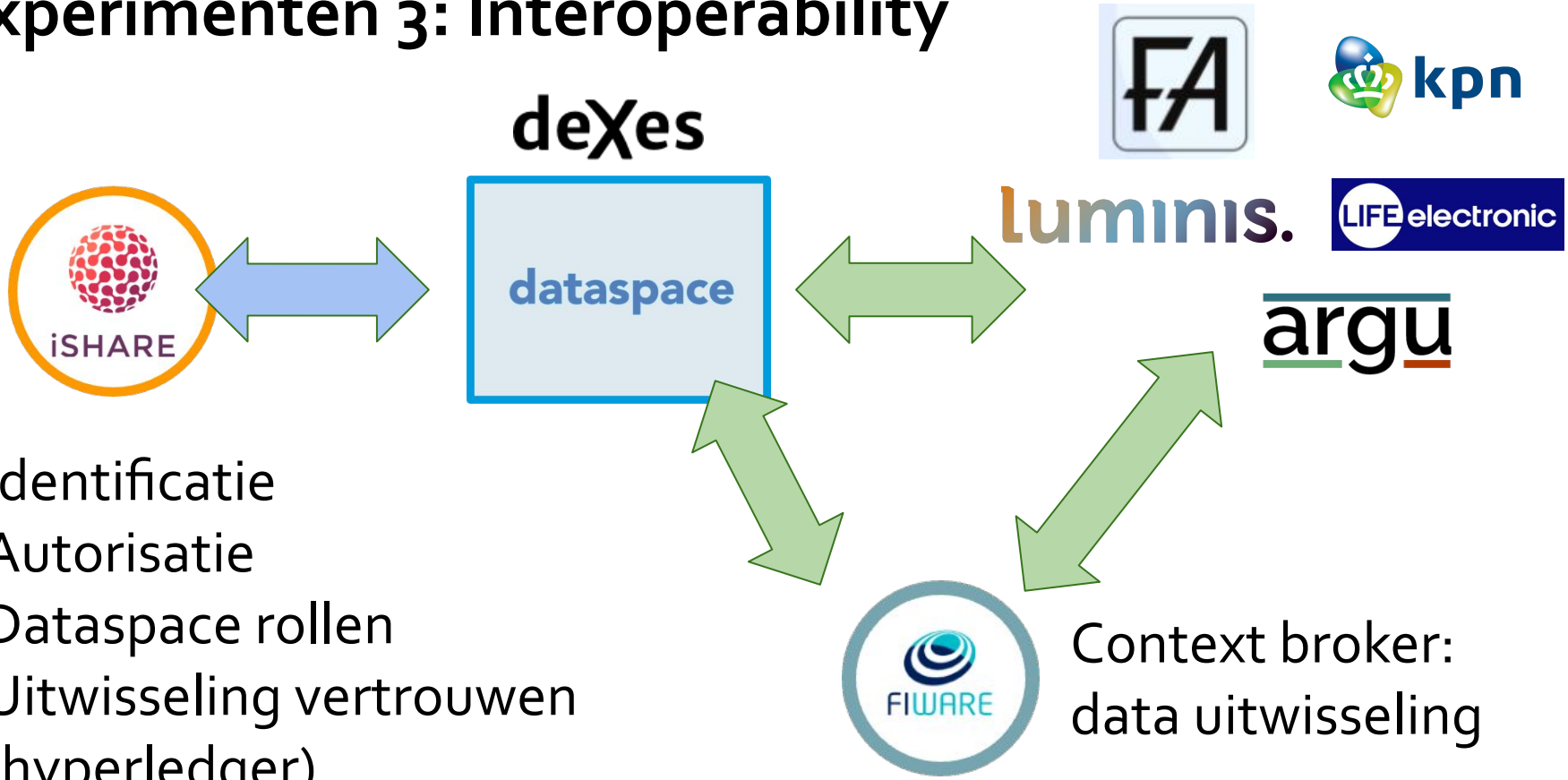
Datatransactie en automatisch afdwingen

Experimenten 2: AMdEX connector



Hoe verbinden service providers met AMdEX?

Experimenten 3: Interoperability



Identificatie
Autorisatie
Dataspace rollen
Uitwisseling vertrouwen
(hyperledger)

Context broker:
data uitwisseling

Impact: leefbare gebouwen en omgeving







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Efficiënt gebouwbeheer

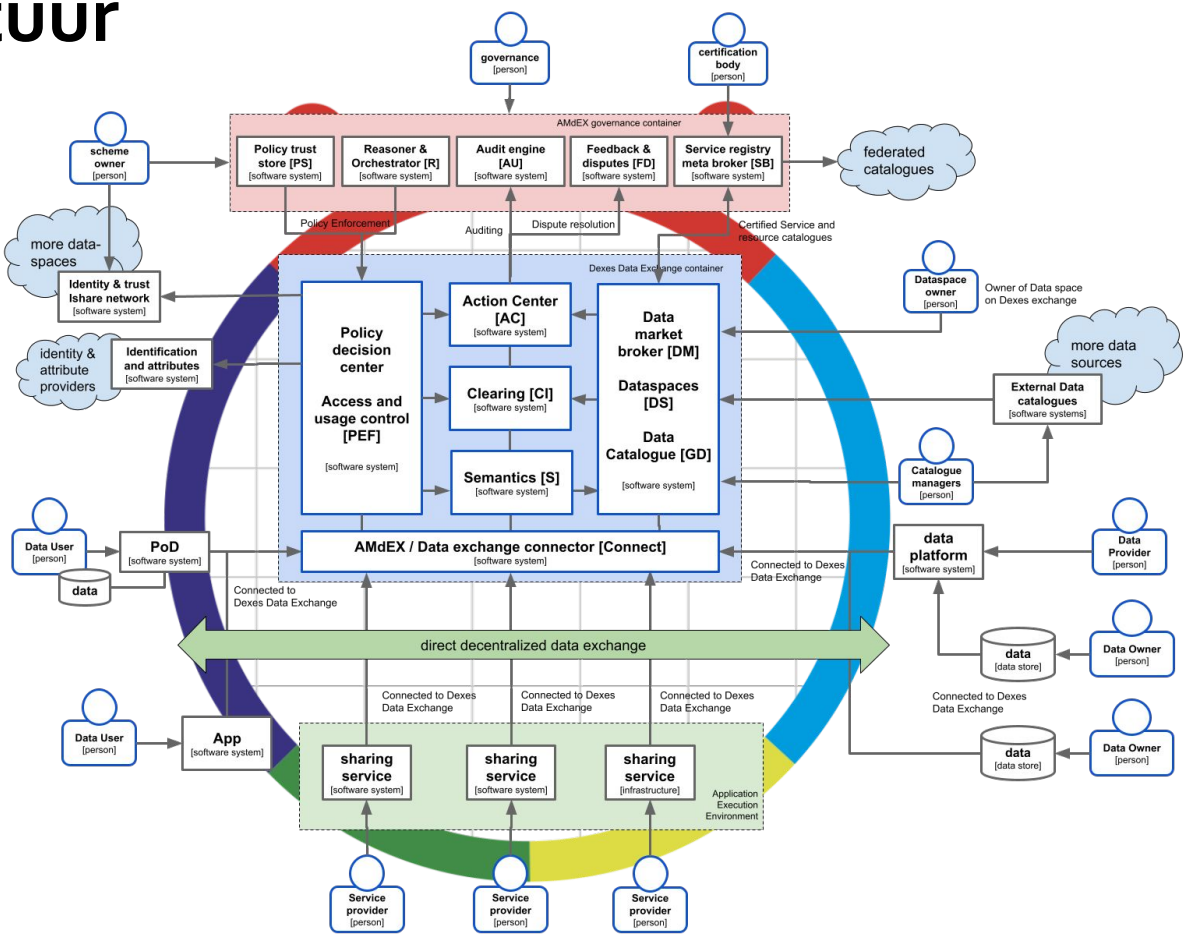
Duurzaam facility management

Leefbare omgeving

AMdEX architectuur

Generieke en domein specifieke onderdelen om data delen te ondersteunen tussen partijen





Questions?

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