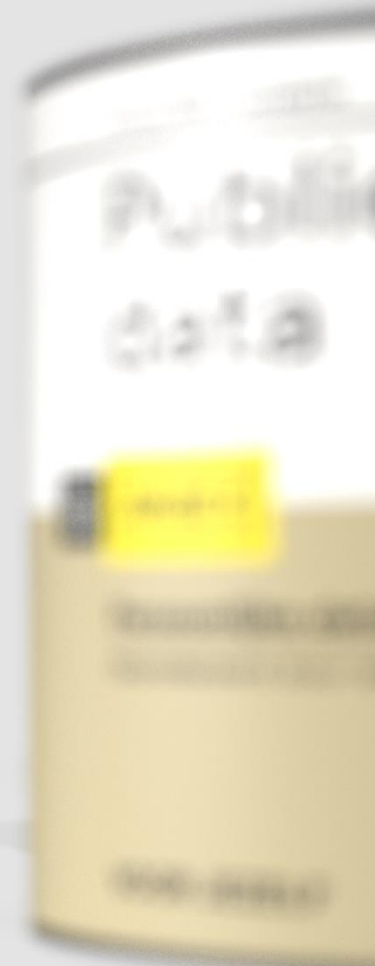


AMdEX





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INTRODUCTION

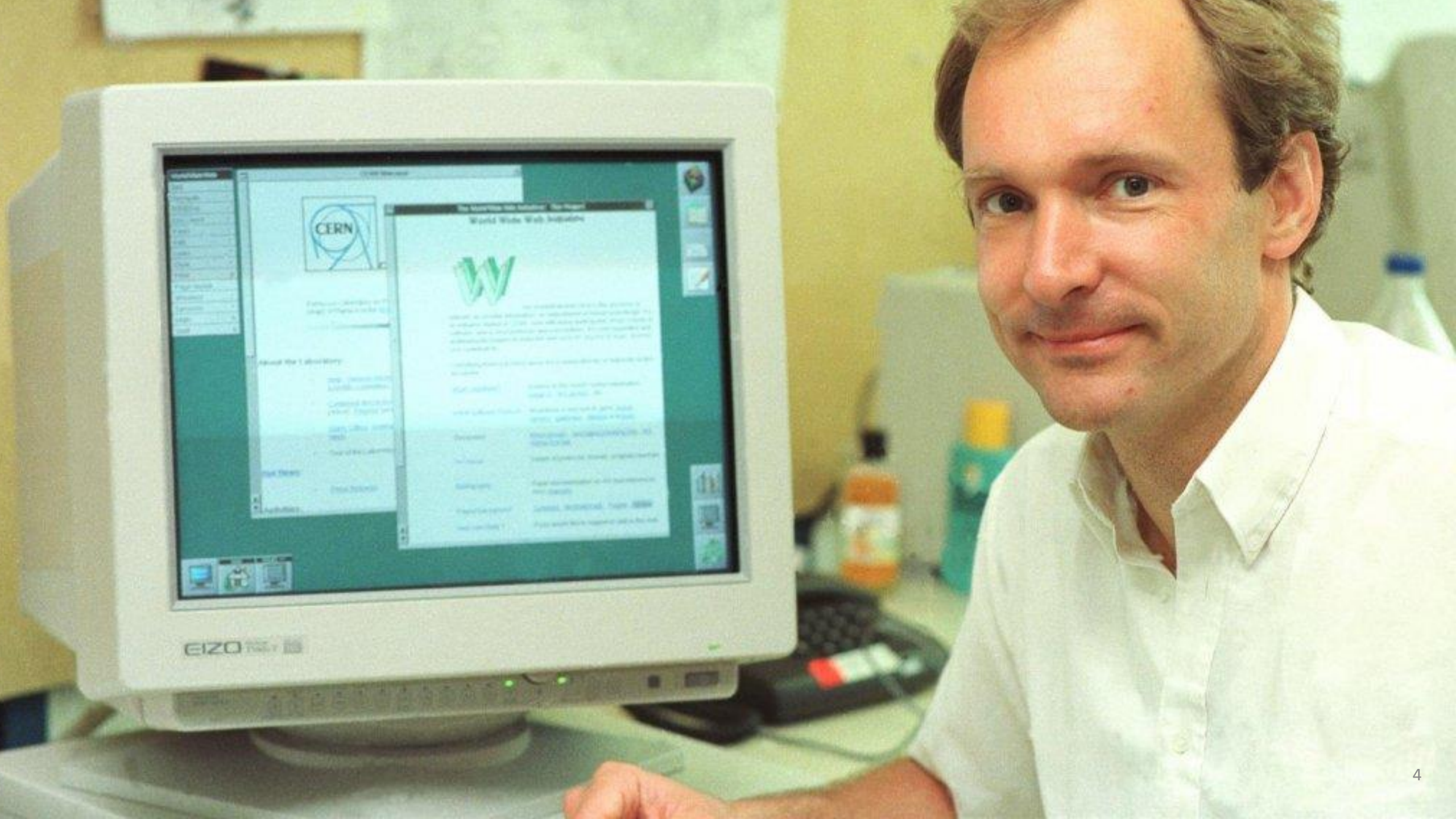
- **Why AMdEX** – *Willem Koeman (AMEC Board)*
- **Design principles** – *Hayo Schreijer (DEXES)*
- **Future governance** – *Elena Illic (AMS-IX)*

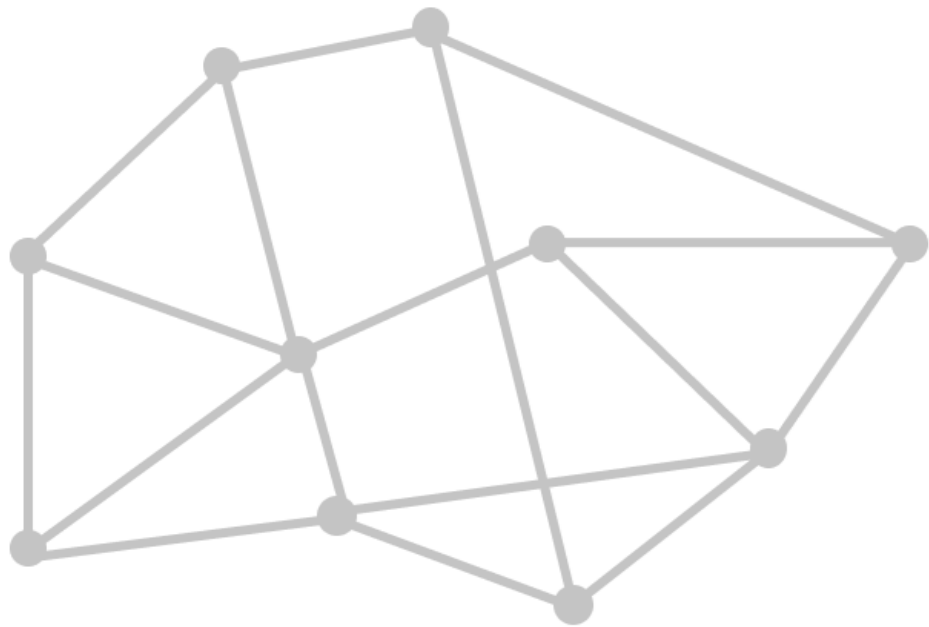
ENVISIONED COLLABORATION

- **AMdEX lab** – *Ana Oprescu (UvA)*
- **Workgroups** – *Hayo Schreijer (DEXES) & Wouter Los (UvA)*
- **Usecases** – *Freek Dijkstra (SURF) & Willem Koeman (AMEC Board)*

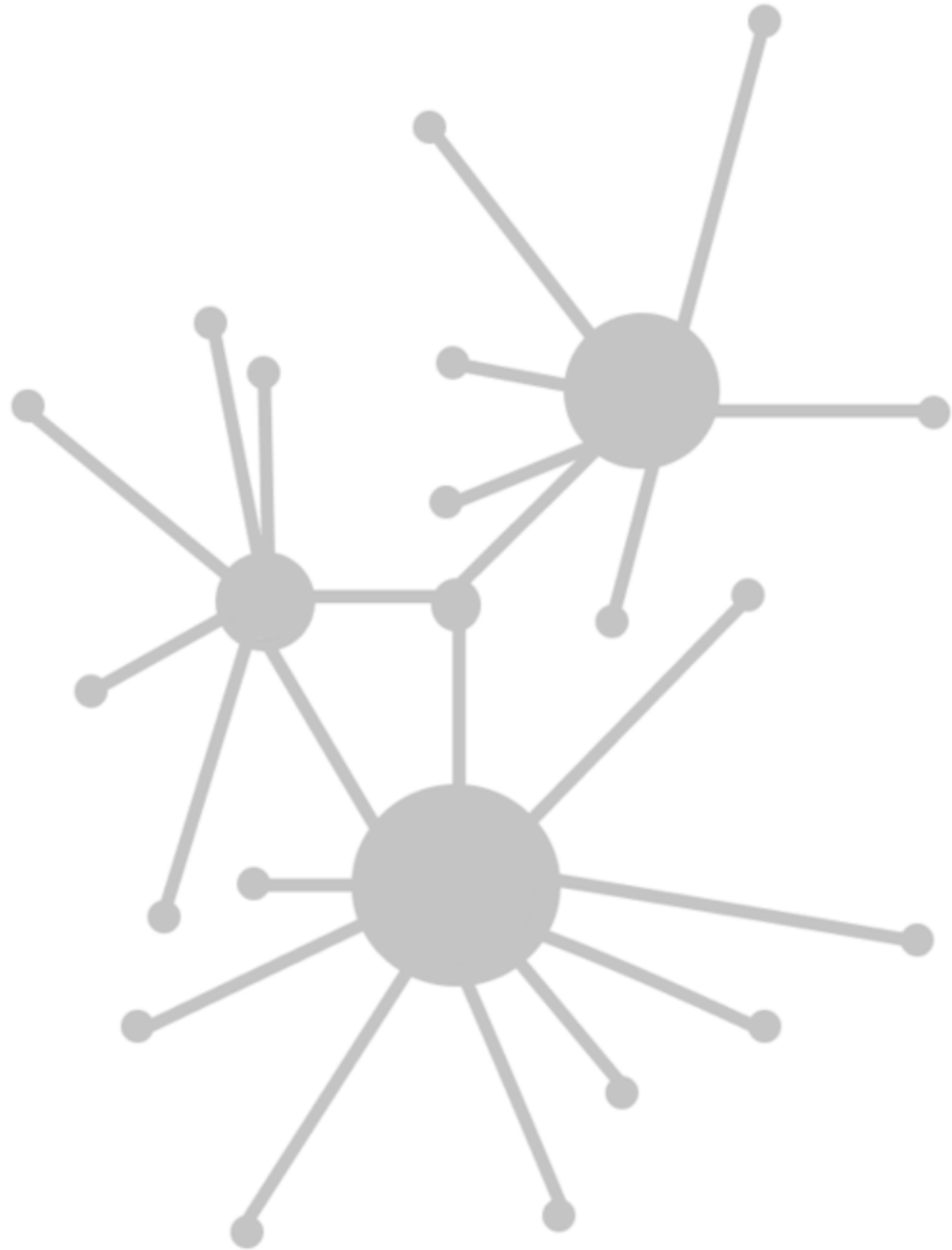
Q & A

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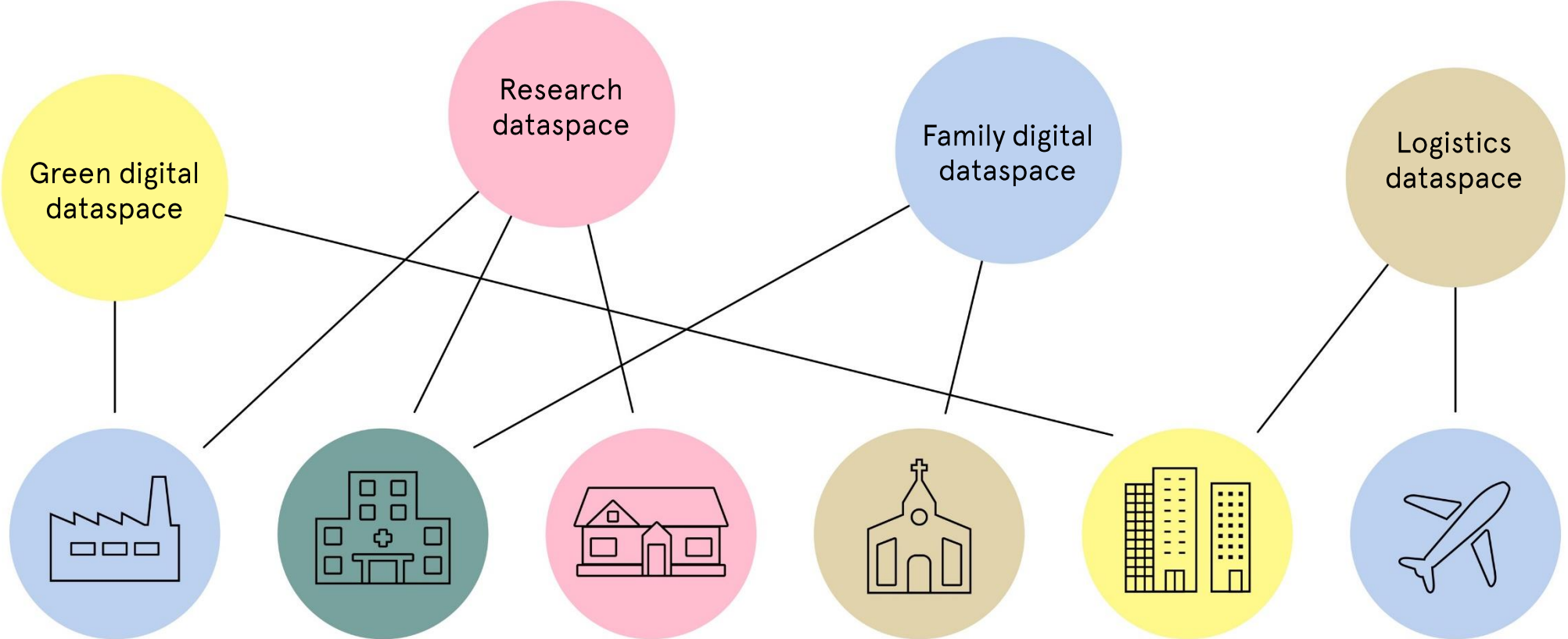


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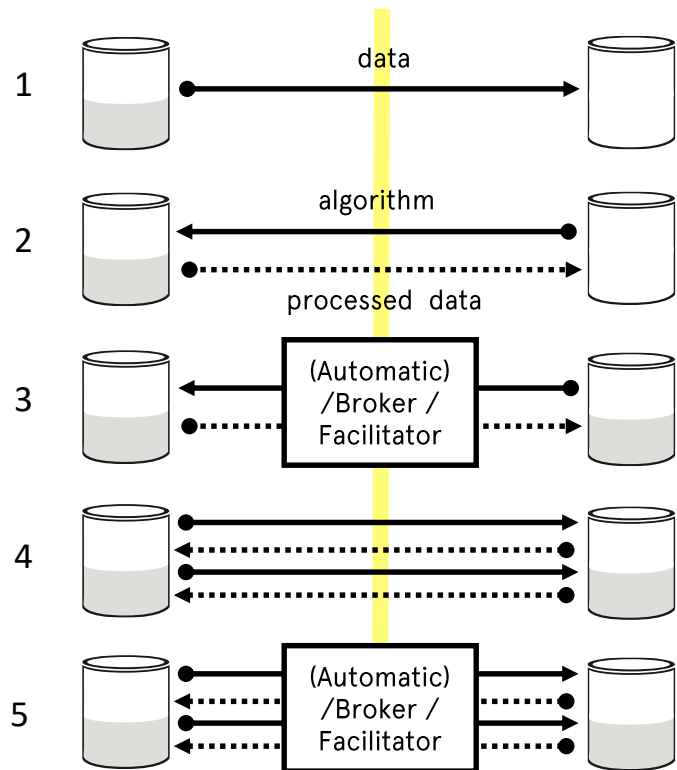
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DATASPACES





DIGITALLY ENFORCED CONTRACTS



Centralized. Bring data to algorithm.

Distributed. Bring algorithm to data.

Federated. Controlled data sharing between entities, and supported by trusted third party.

Mixed model of 1 and 2.

Mixed model with opportunities for trusted third parties.

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AMBITION

- Provide a neutral infrastructure that **provides and executes** reliable data sharing archetypes.
- That technology providers can integrate into their **products and services**.
- Which is not owned by a few parties, but operates as a **public facility** by all and for all.
- In order to accelerate the creation of trusted **dataspaces**.



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AMdEX is complementary

Initiatives		 DATA SHARING COALITION	 AMdEX	 GATA-X	 GO FAIR	 INTERNATIONAL DATA SPACES ASSOCIATION	 ISHARE	 NL AI Coalition
Focus		Connecting data spaces	Digital contracts	Federated data infrastructure	Optimising reuse of data	Building data spaces	IAA	Data sharing for AI
Maturity		Exploration	Exploration	Development	Development	Development	Operational	Exploration
Data spaces	Data sharing in data spaces				●	●	●	●
	Data sharing across data spaces	●					●	
	Data visiting in data spaces				●	●		●
	Data visiting across data spaces							
Soft infrastructure	Business model	●						●
	Governance	●			●	●	●	●
	Legal agreements	●	●				●	●
	Operational agreements	●				●	●	●
	Metadata	●			●	●		●
	Security	●				●		●
	IAA	●			●	●	●	●
	Exchange protocol	●				●		●
	Data standards	●			●			●
Infra-structure	Data storage		●	●				
	Cloud service provider			●				
	Edge cloud service provider			●				
	Connectivity			●		●		

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DESIGN PRINCIPLES

Hayo Schreijer

AMdEX

AMDEX vs STATUS QUO

STATUS QUO

Een derde partij heeft zeggenschap in, bepaalt en/of heeft inzage in:

- Leden
- Regels
- Datamodellen
- Datastandaarden
- Conditie
- Contracten
- Data
- Algoritmen
- Logging & auditing

Research datamarkt

Luchtvaart datamarkt

Afval datamarkt

Etc.

VS

AMDEX

AMDEX infrastructuur biedt generieke datadeel dienstverlening

- Authenticatie en autorisatie
- Contract technologie en executie
- Trust archetypes die data en algoritmen met elkaar in contact brengen
- Logging & auditing

DATAMARKTEN

Data eigenaren bepalen voorwaarden in eigen datamarkten

Research datamarkt

- Leden
- Regels
- Datamodellen
- Datastandaarden
- Conditie
- Contracten
- Data
- Algoritmen

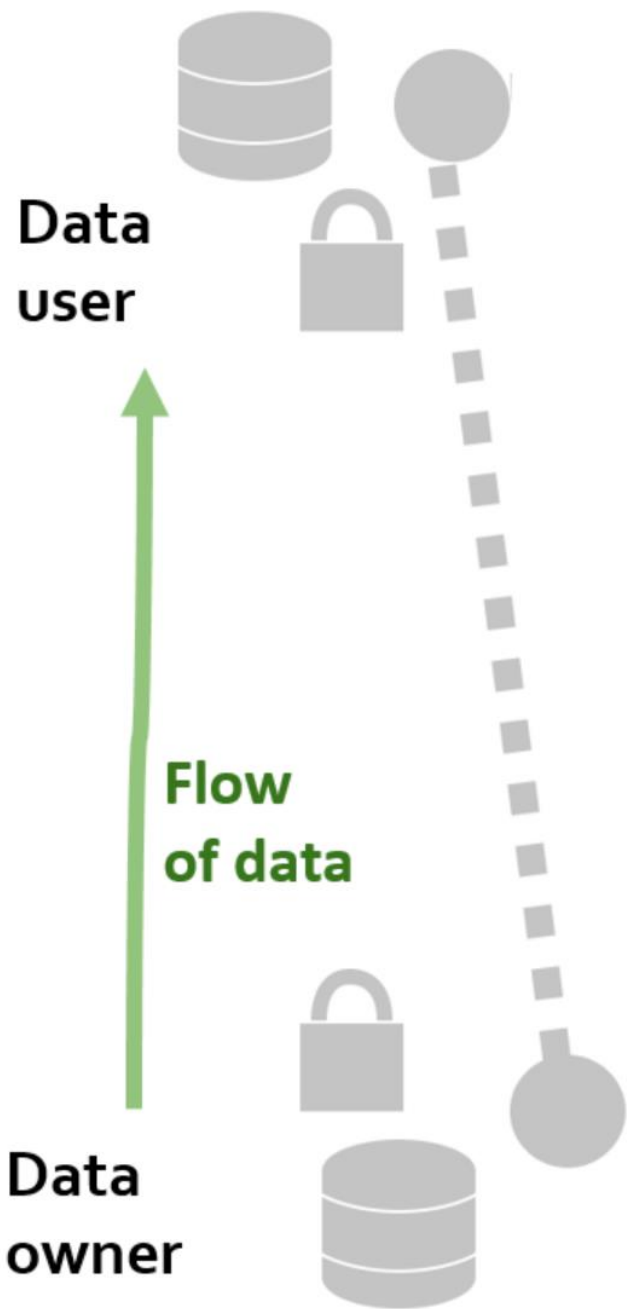
Luchtvaart datamarkt

- Leden
- Regels
- Datamodellen
- Datastandaarden
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- Data
- Algoritmen

Afval datamarkt

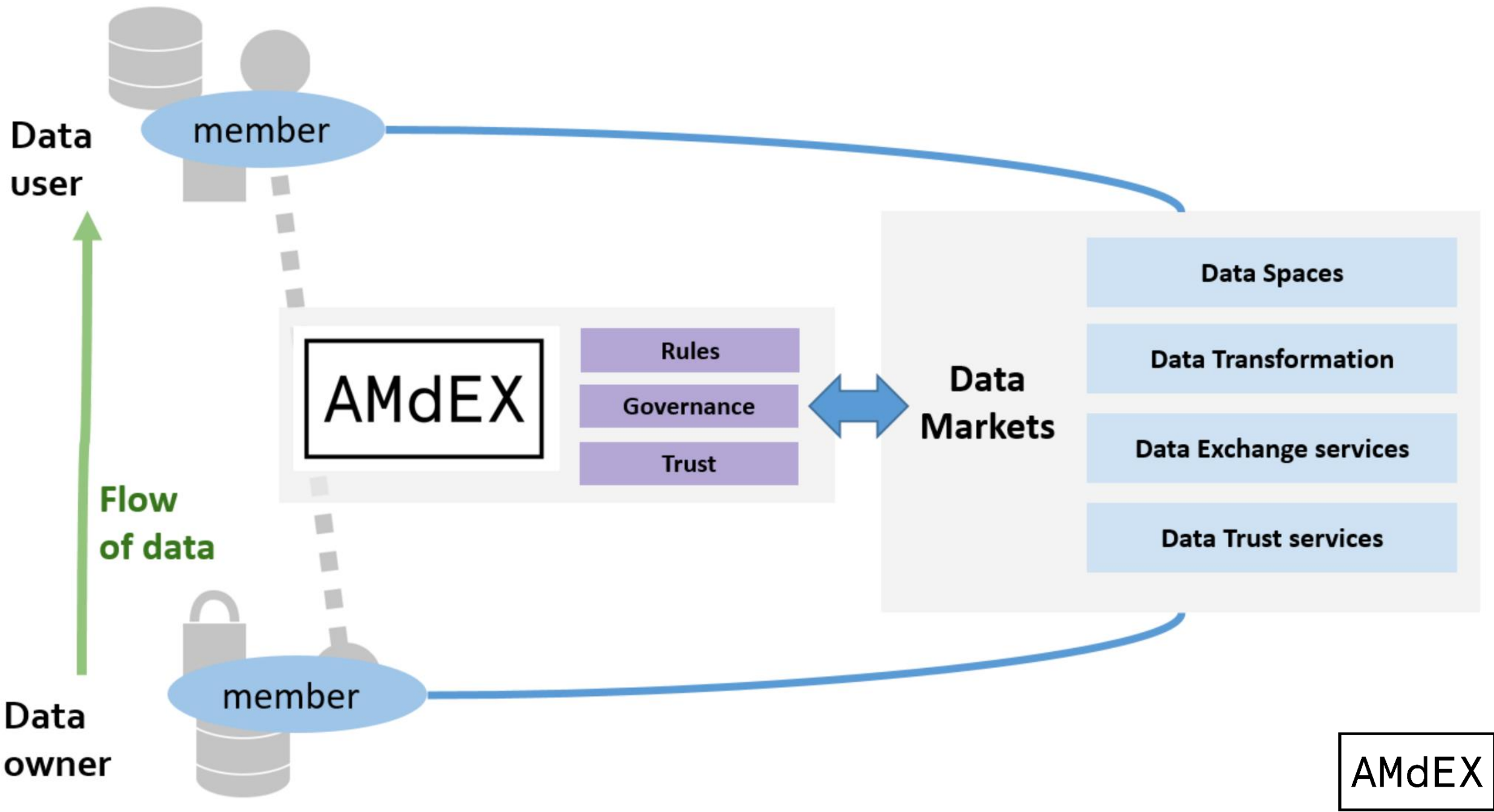
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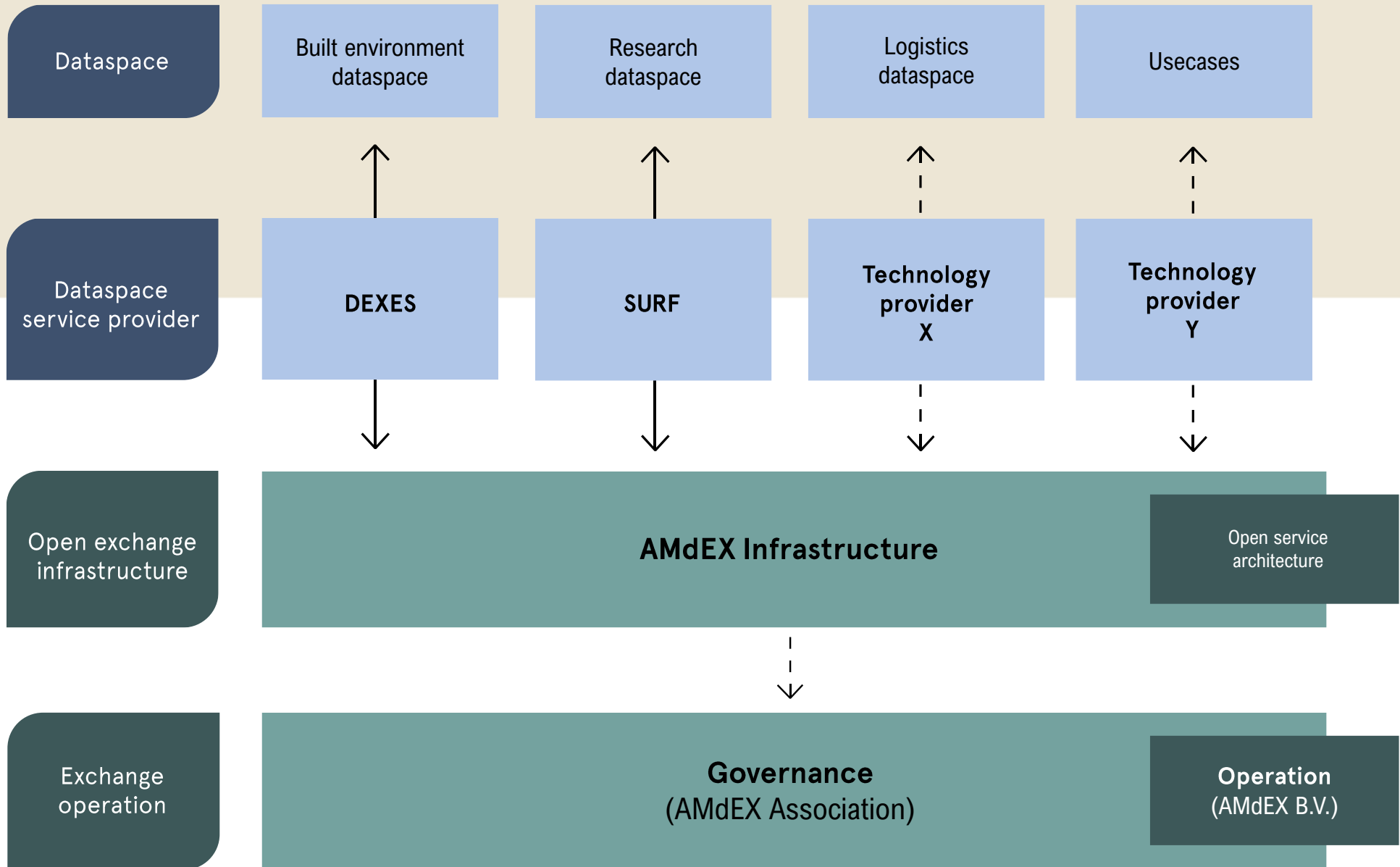


Amdex principles:

- Data sovereignty
- Control over your own data
- Be transparent on conditions for sharing
- Men-machine-readable offers & agreements
- Secure ecosystem, a free flow of data



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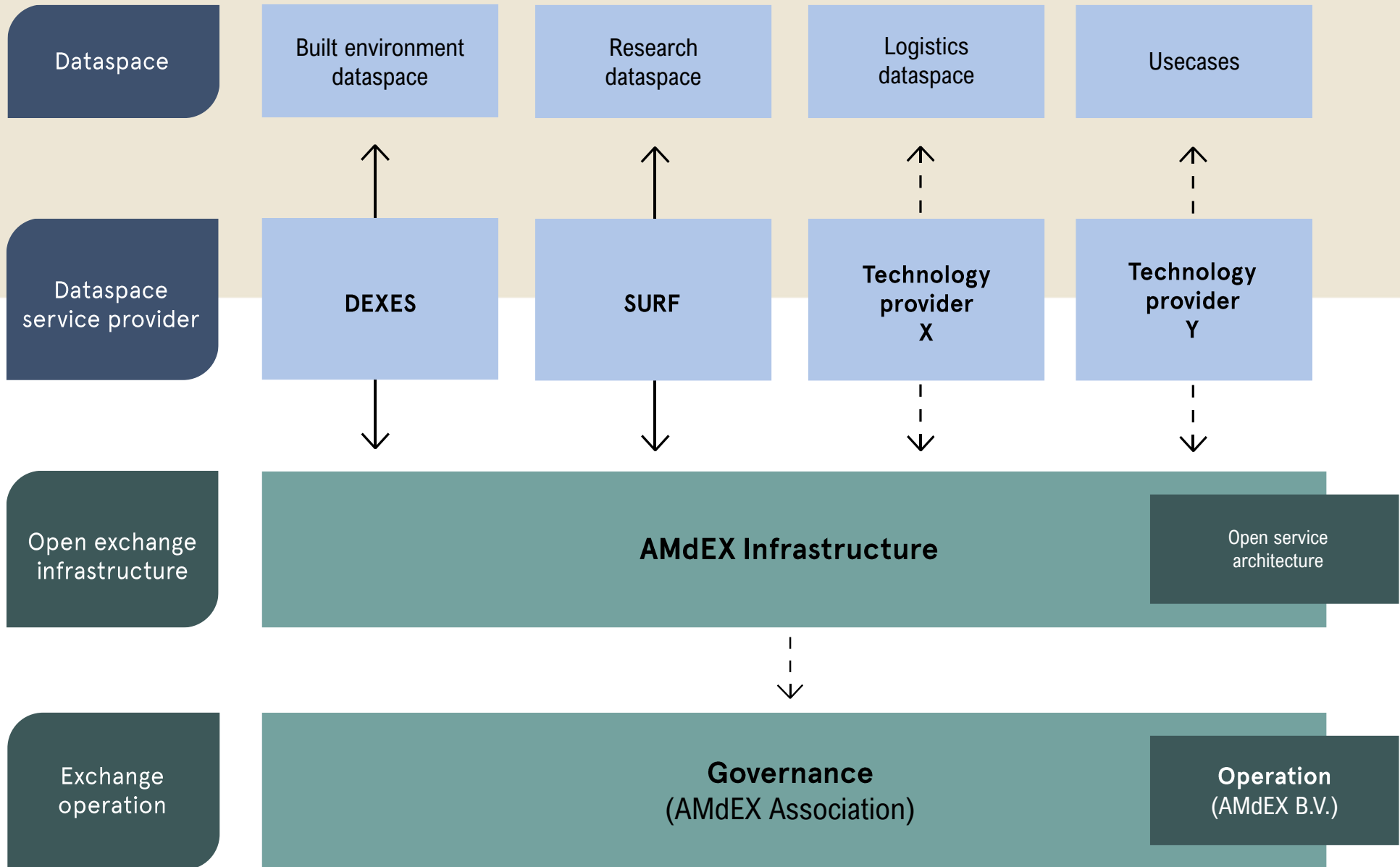


GOVERNANCE

Elena Ilic

AMdEX

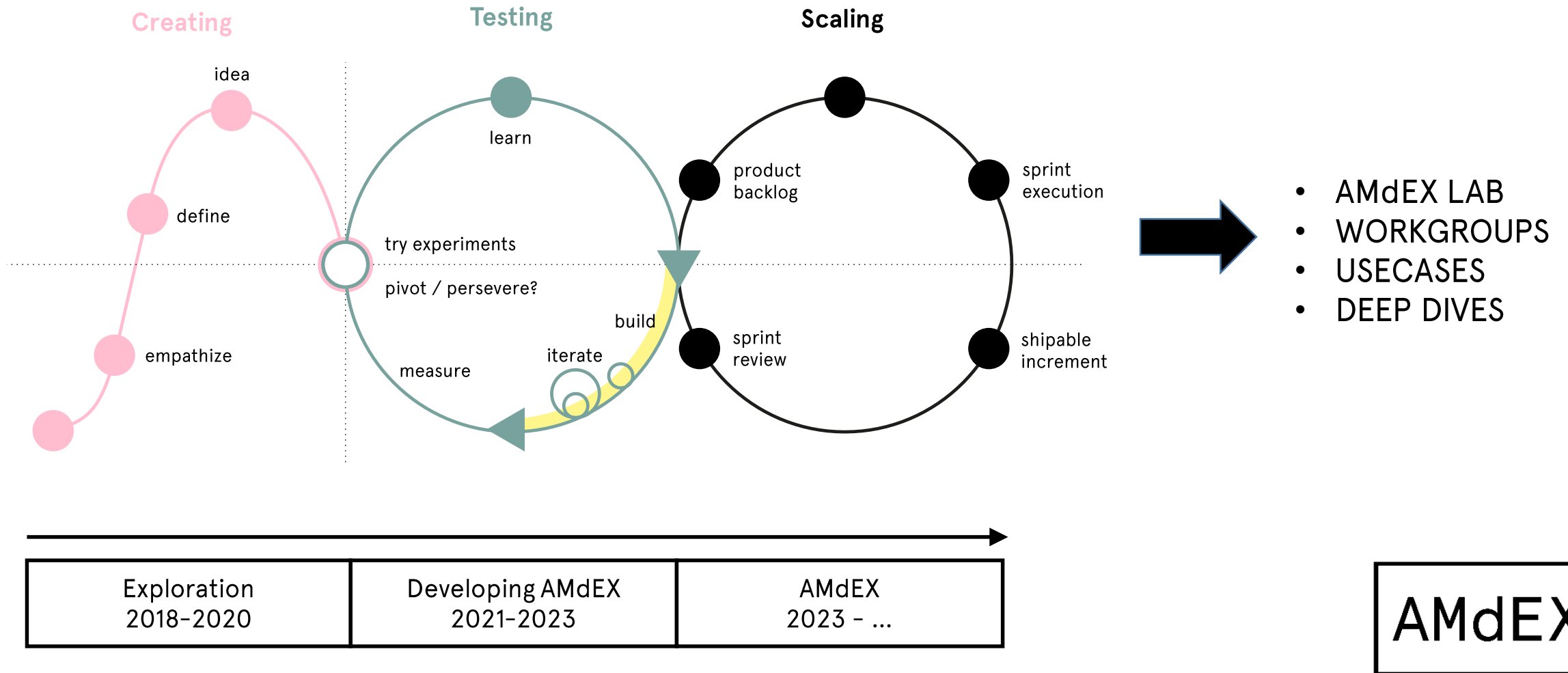
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COLLABORATION

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COLLABORATION



USECASE CRITERIA

- Can be translated into **generic solutions** for other data sharing challenges and is realistic considering AMdEX scope
- Enables **many-to-many** transactions
- Promotes data **sovereignty**
- Creates **significant value** for organizations that share data
- **Well-managed** data, algorithms and clear conditions
- Ethically **responsible**



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ENDORISING PARTNERSHIP

For those who:

- Wish to support AMdEX by contributing **in kind value** (hours,data, technology) in e.g. AMdEX lab, usecases or workgroups or different.
- Support the **development of AMdEX** technology and not-for-profit entity
- Endorse the **open nature of this development process** and its accessibility for new participants.
- Support the **open availability of** (non-company or privacy-sensitive) **experience and knowledge** gained during the process.

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