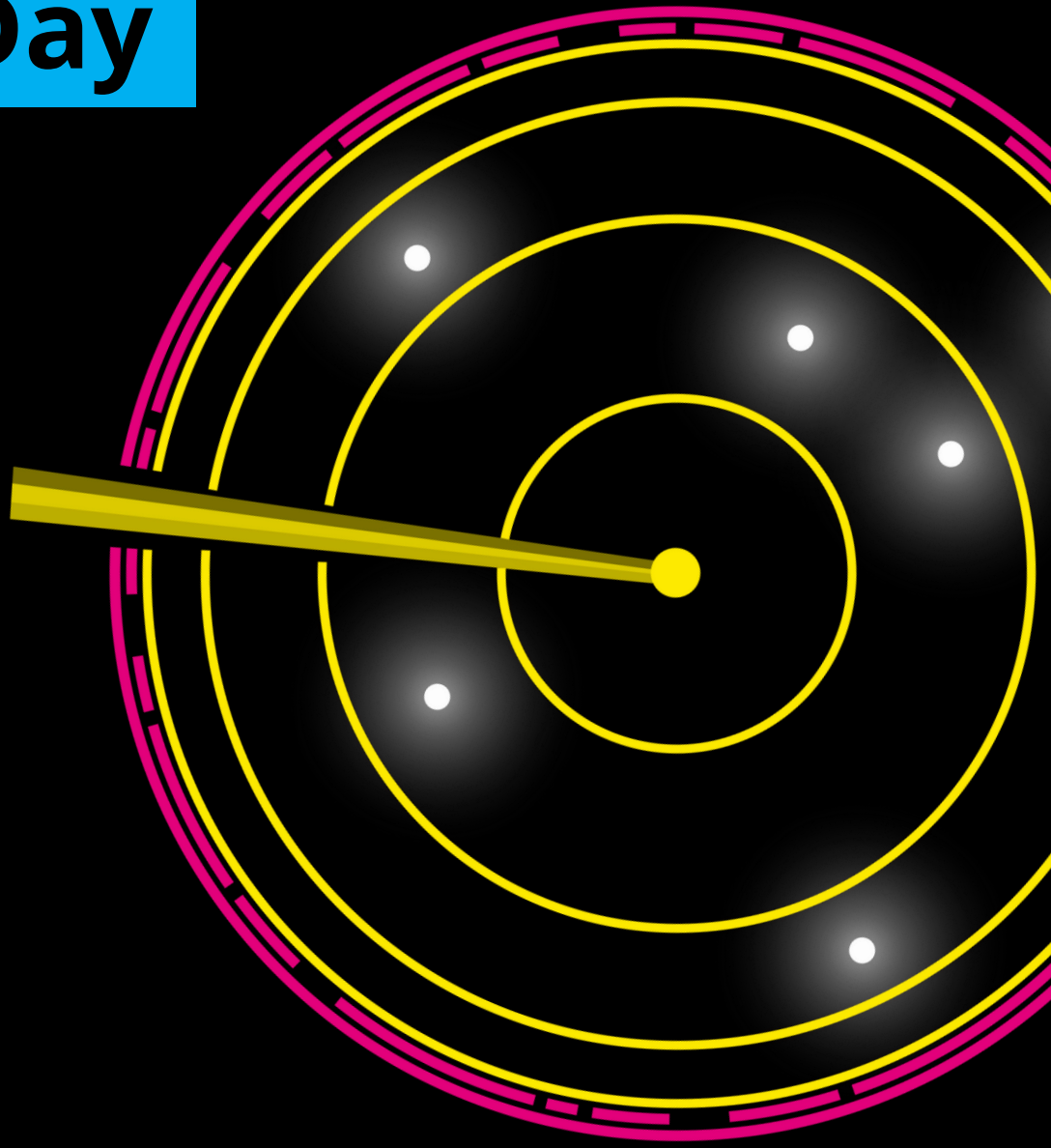
Data Spaces Discovery Day

October 19, 2023 | Vienna



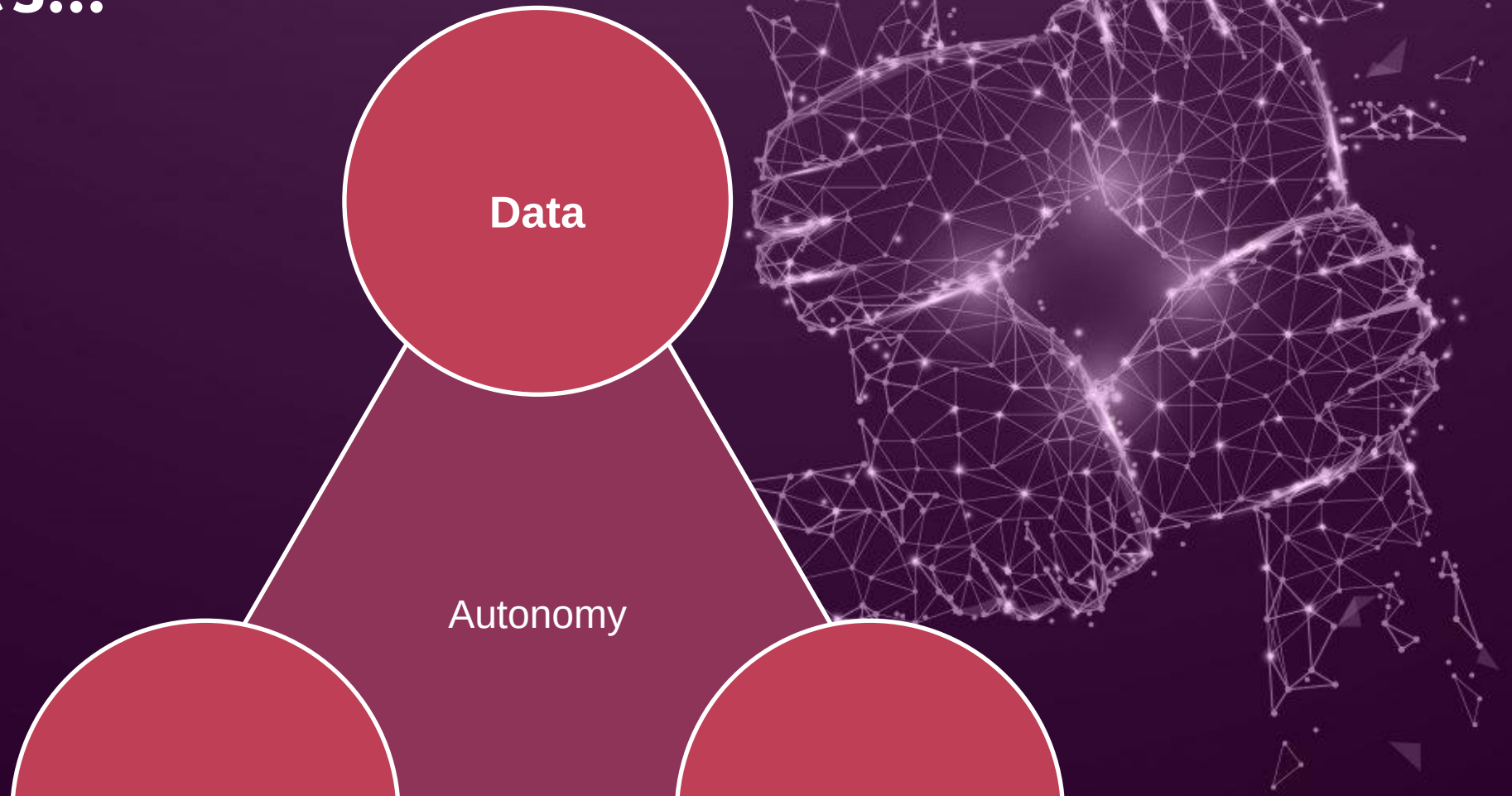
Data Space Governance

with iSHARE non-profit Trust & Legal Framework for Data Spaces

Gerard van der Hoeven / gerard@ishare.eu
iSHARE Foundation

Autonomy is the cornerstone of data spaces…

iSHARE



Data

Autonomy

Data Space

Participant

Autonomy is reached through ..

iSHARE

Data

Participant

Data Space

... trust & governance

Data Autonomy Governance ..

iSHARE

Control my data

Wherever it’s stored

Whoever operates it

Against my terms

Legally assured

Technically defended

Against my terms

… through data holder empowerment.

Data Autonomy Governance ..

iSHARE

Federated and Open Source
Data Space Connectors

Federated and Open Source
Data Service Provider
Detailed API specification

Federated and Open Source
Consent Policy Regisity
Detailed API specification

Legal coverage for Data Exchange + Dynamic Terms for every exchange

… through data holder empowerment.

Participant Autonomy Governance ..

iSHARE

I want to onboard on **5 data spaces**

I govern my capabilities

I'm deciding on my legal covergage

I want to have my own Authorisation registry at hom

Against my terms

Technically defended

… through participant empowerment.

Participant Autonomy Governance ..

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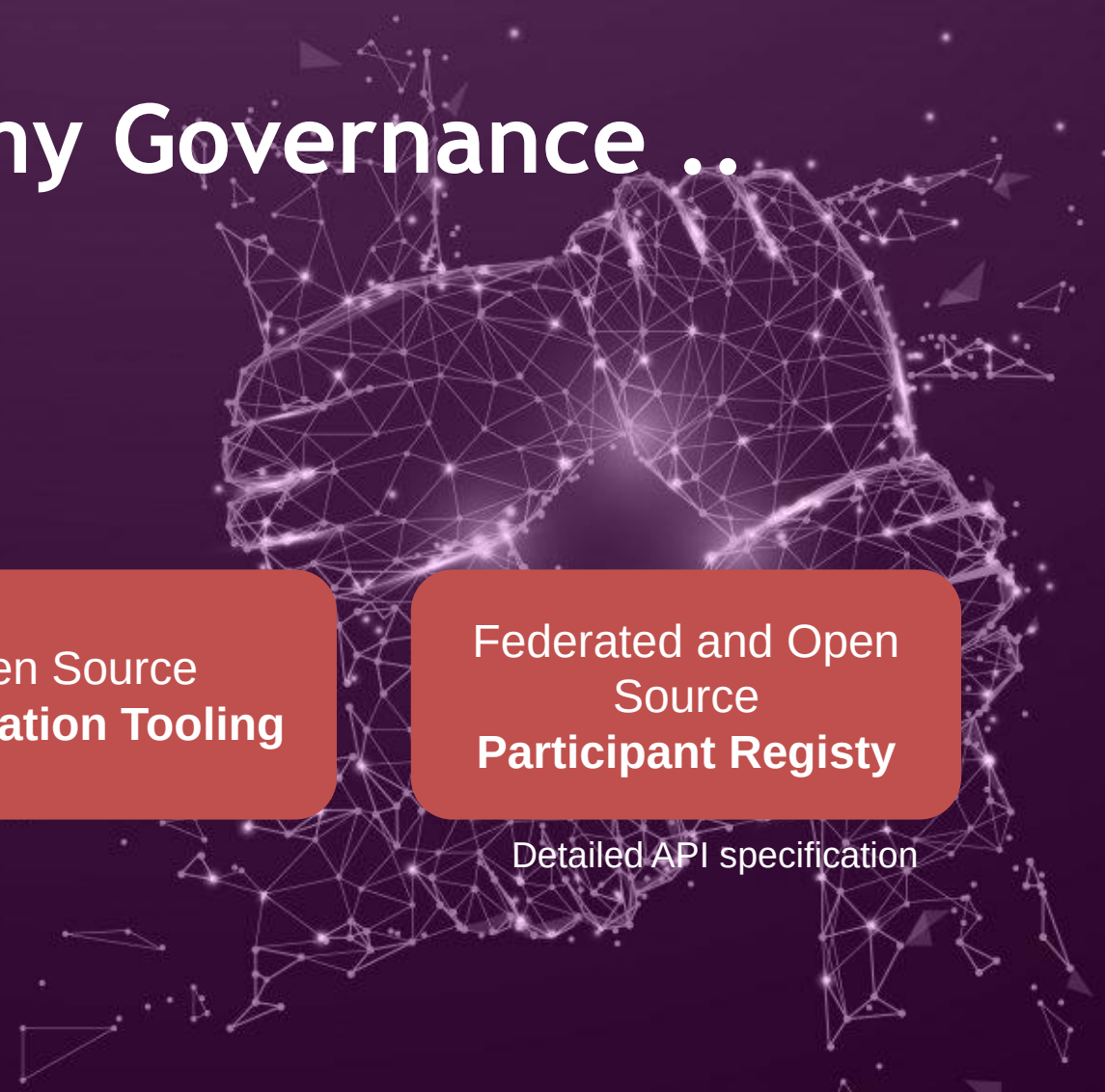


Trust Framework for onboarding of participants

Open Source **Certification Tooling**

Federated and Open Source **Participant Registy**

Detailed API specification

… through participant empowerment.

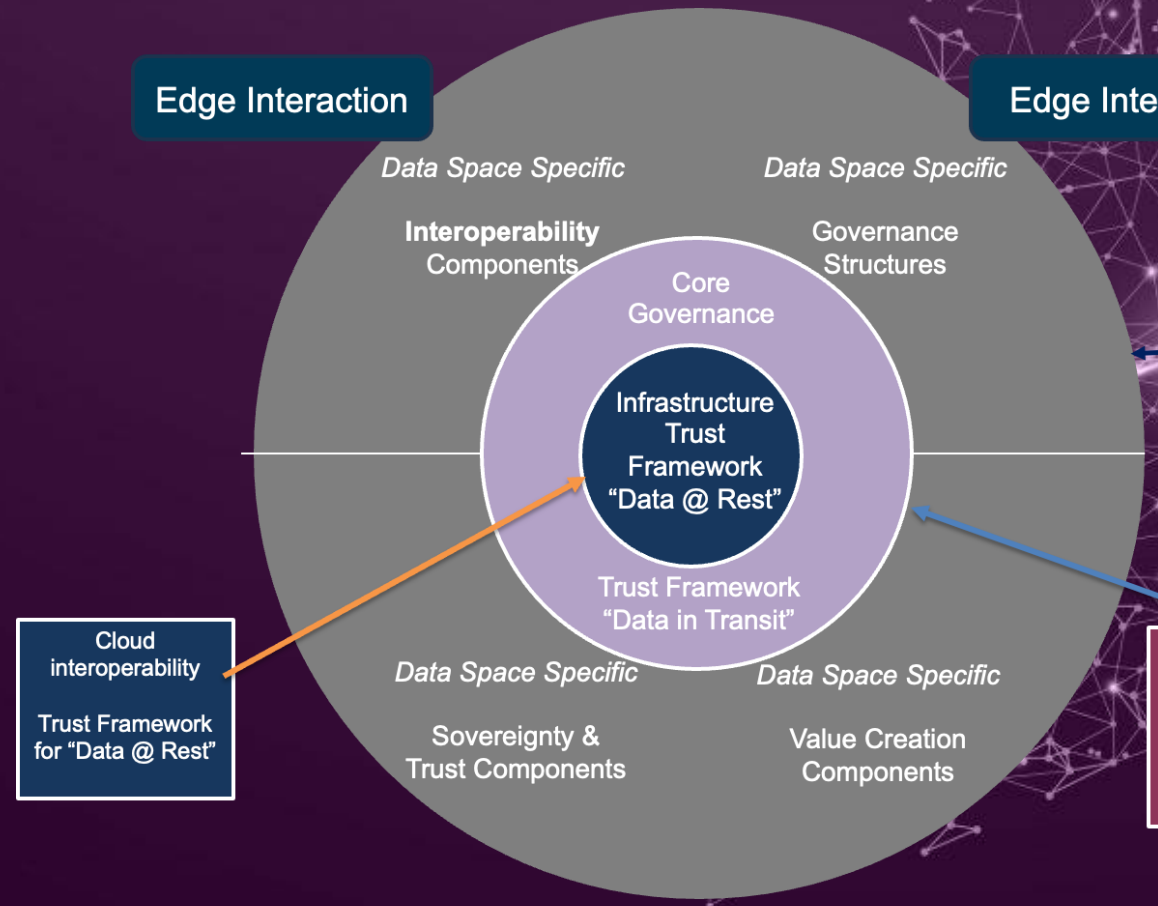
Data Space Autonomy Governance ..

iSHARE

… through data space empowerment.

Data Space Autonomy Governance ..

iSHARE



… through data space empowerment.

Frameworks bring harmonized building blocks to use as seen fit per data space, and providing freedom to build further for data space specifics requirements.

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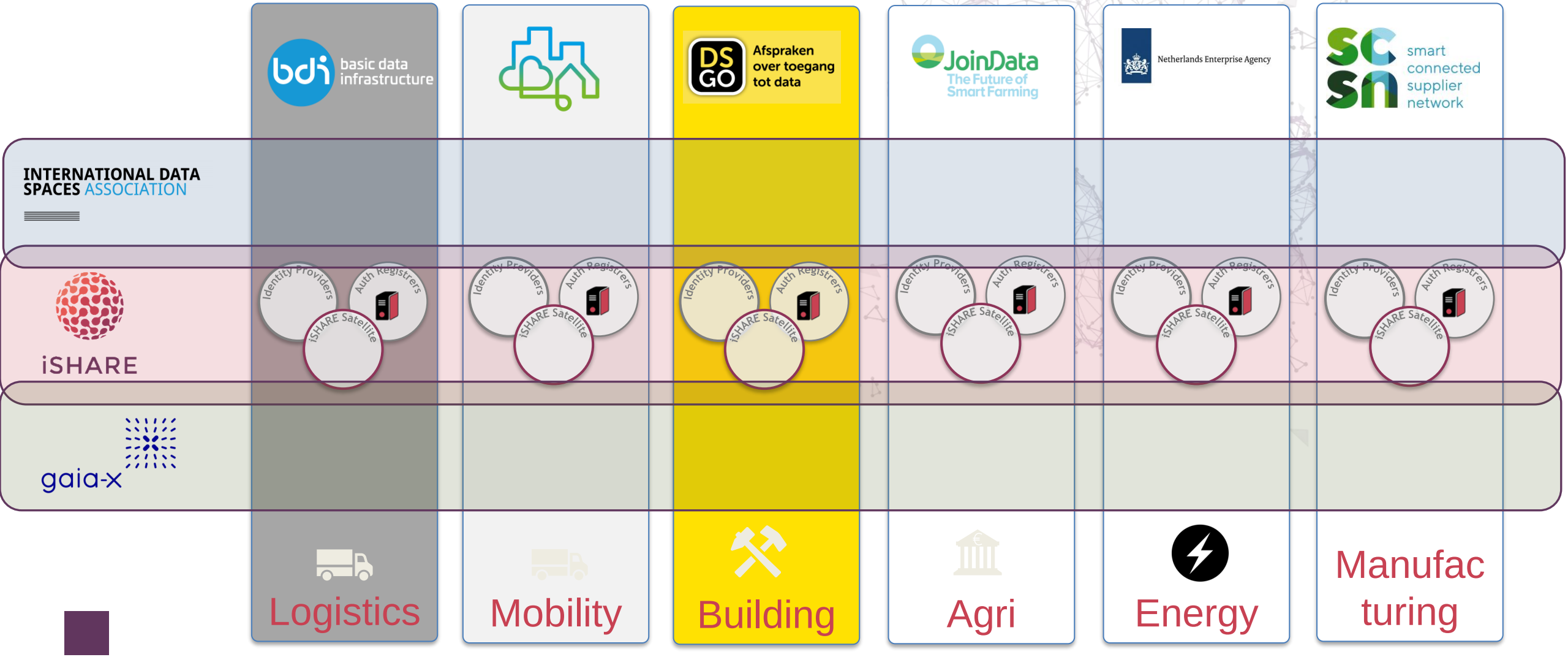
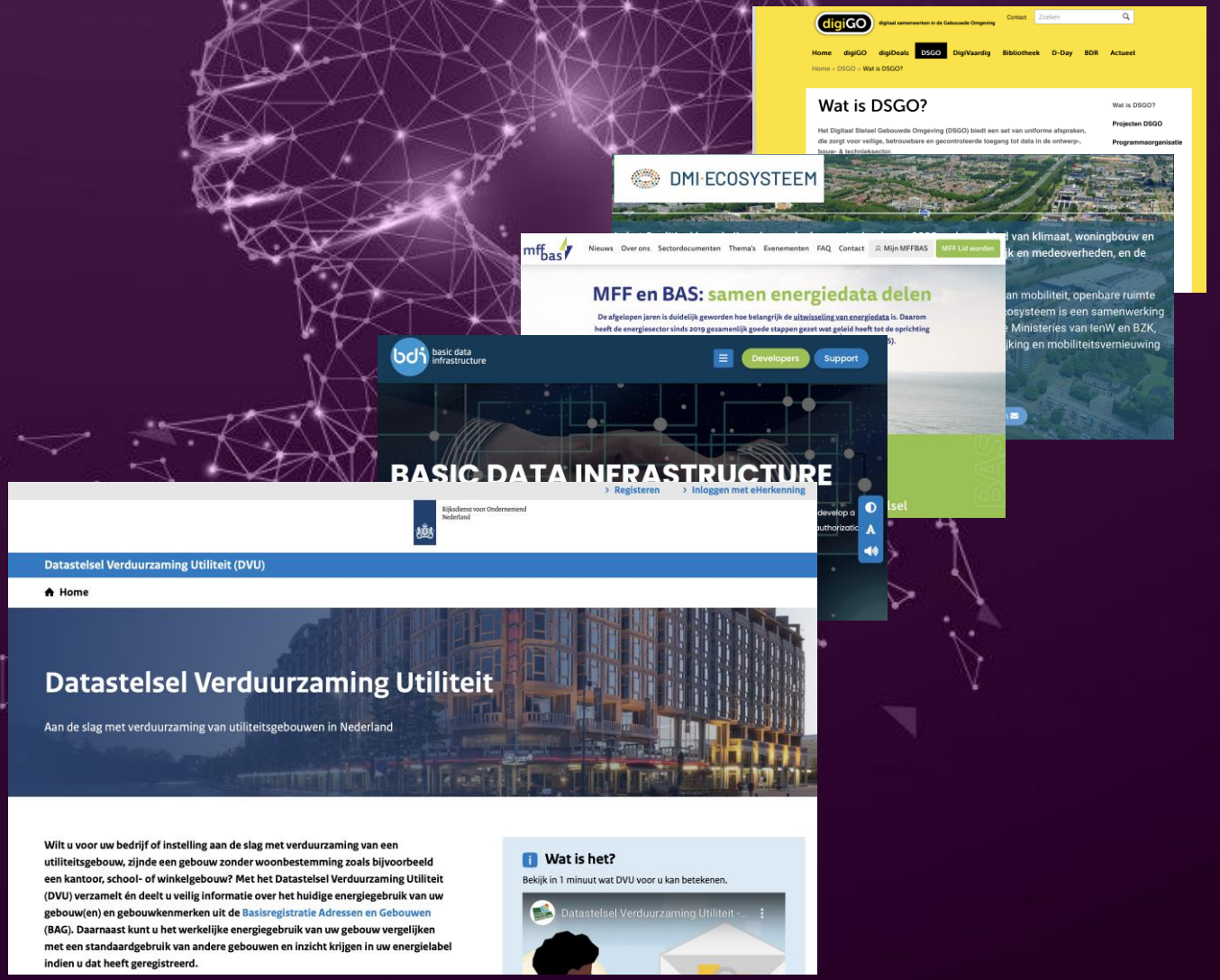


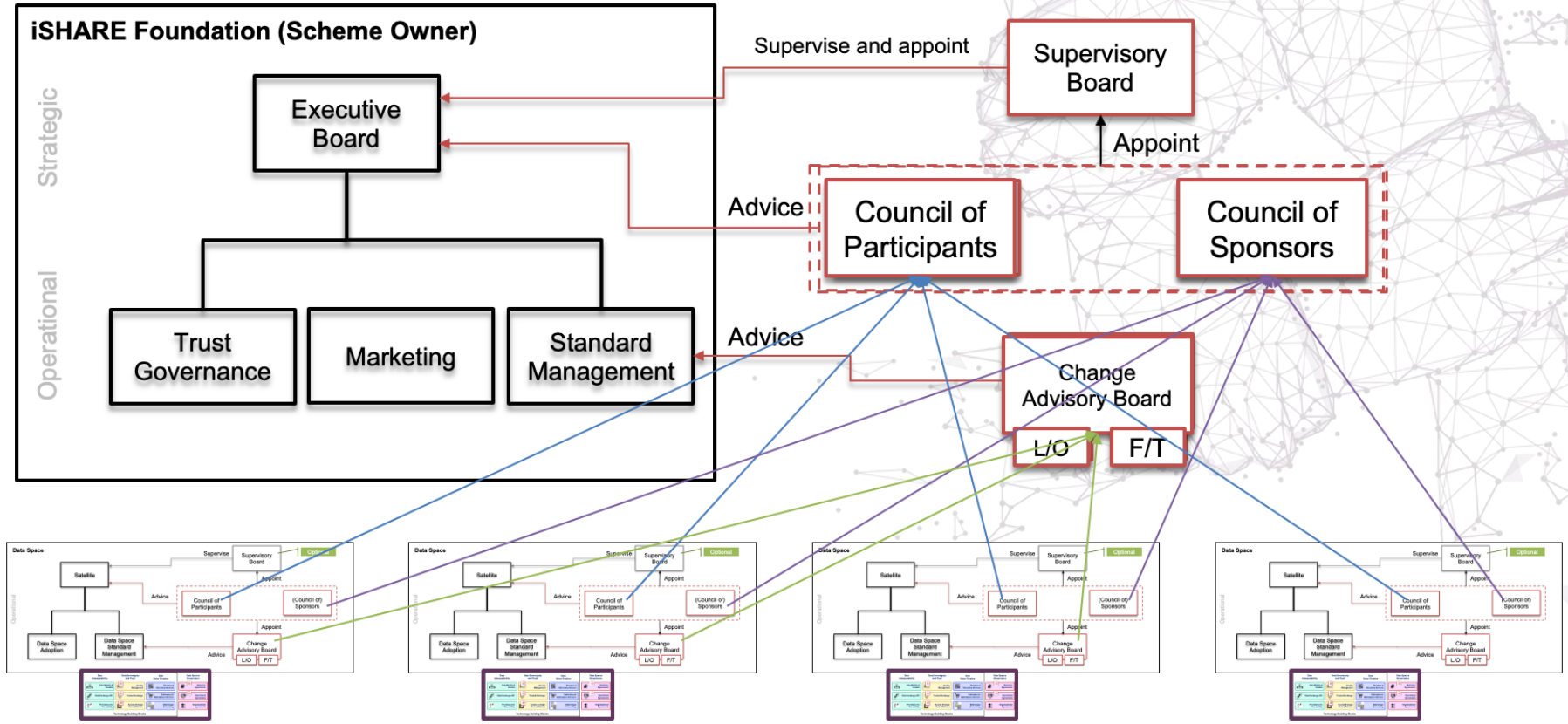
iSHARE Trust Framework

for real federated / distributed data exchange, without platform in between

- Live since 2018
- Trusted by governments
- 35 Data spaces (i4trust.org and many others)
- 1000ths of participants
- Non profit
- Governed by you as data space
- Shared cost between data spaces
-



Data Spaces govern the iSHARE trust framework



Gaia-X, IDSA and iSHARE complement each other

iSHARE

Data layer

- Define and certify data content connectors that are built upon federated roles for data control.
- Define the overarching rulebook and reference architecture for data spaces.
- Define the certification criteria.

INTERNATIONAL DATA SPACES ASSOCIATION

Connecting the frameworks on **data sovereignty**

Control layer

- Define and enable organizations to possess cross-domain authorizations
- Define and certify the roles for data sharing federation with certification (Policy Service Provider, ParIS/Satellite/GXCH Service Provider, Identity Providers) for **Data in Transit.**
- Establish unified legal framework for data sharing across data spaces.

iSHARE

Connecting the frameworks on **digital trust**

Infrastructure

- Define and assign trust levels at both infrastructure and application levels for **Data at Rest.**
- Implement a framework for verifiable credentials on content and trustworthiness of data sources.
- Define the regulations for digital infrastructure sovereignty.

Trusted registry of certified parties (ParIS, Satellite, GXCH)

gaia-x

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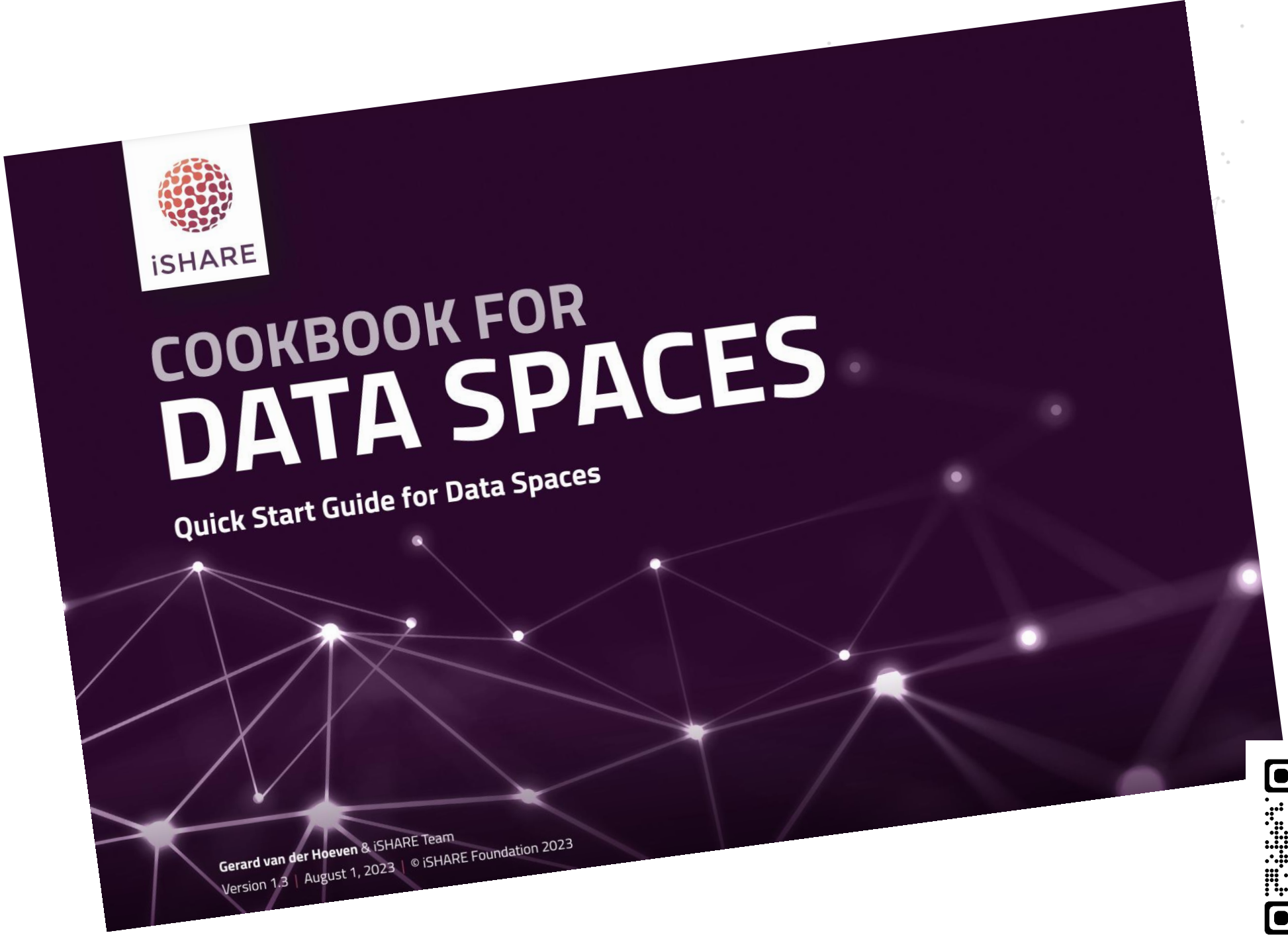
iSHARE
COOKBOOK FOR
DATA SPACES
Quick Start Guide for Data Spaces
Gerard van der Hoeven & iSHARE Team
Version 1.3 | August 1, 2023 | © iSHARE Foundation 2023

Ready building blocks for data space authorities

iSHARE

Existing network of service providers and data holders

Federated and Open Source
Data Service Provider

Technical Specifications for Federated Data Sovereignty

Federated and Open Source
Consent Policy Registy

Trust Framework for onboarding of participants

Open Source
Certification Tooling

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Participant Registy

Legal coverage for Data Exchange + Dynamic Terms for every exchange

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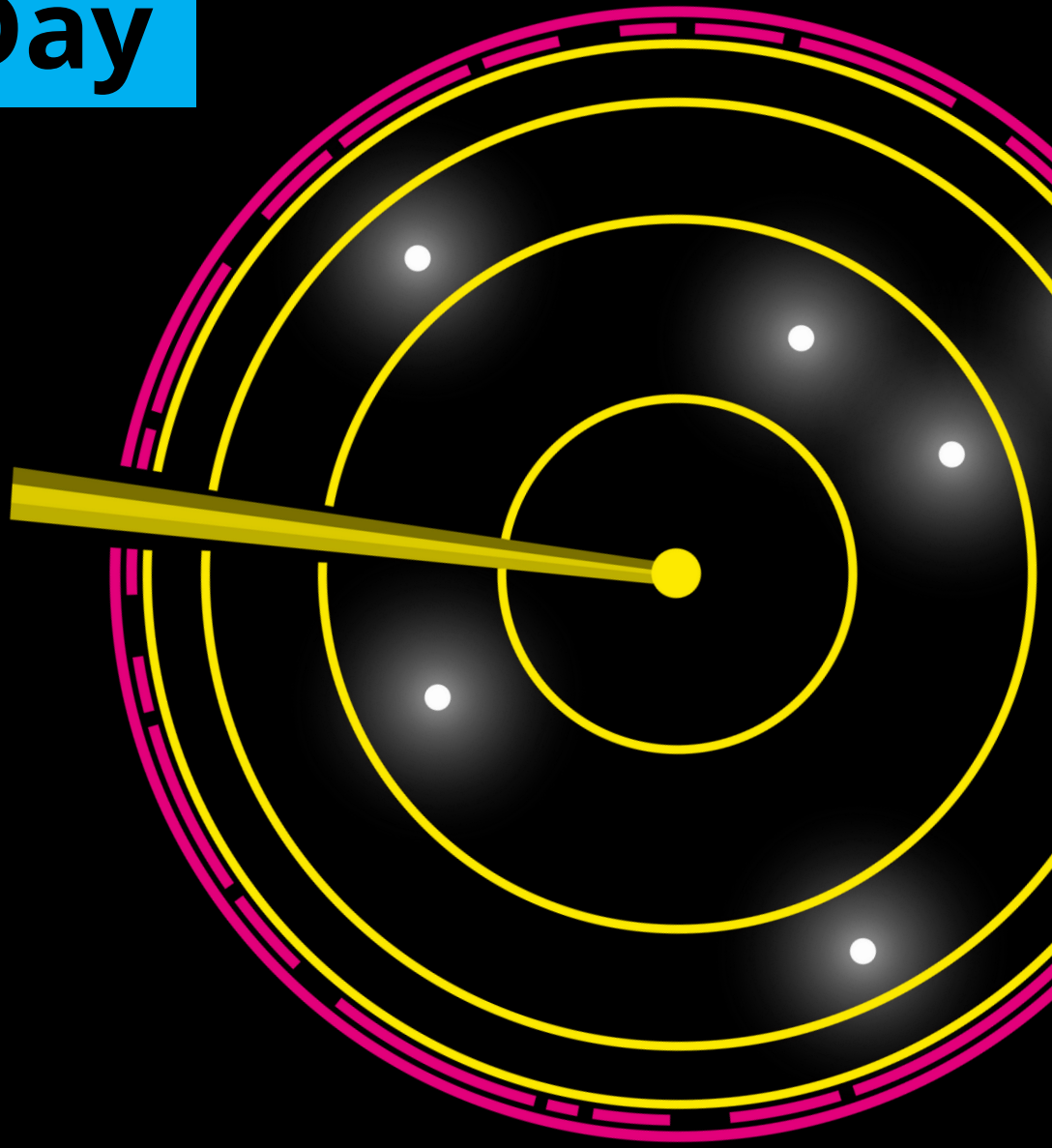

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