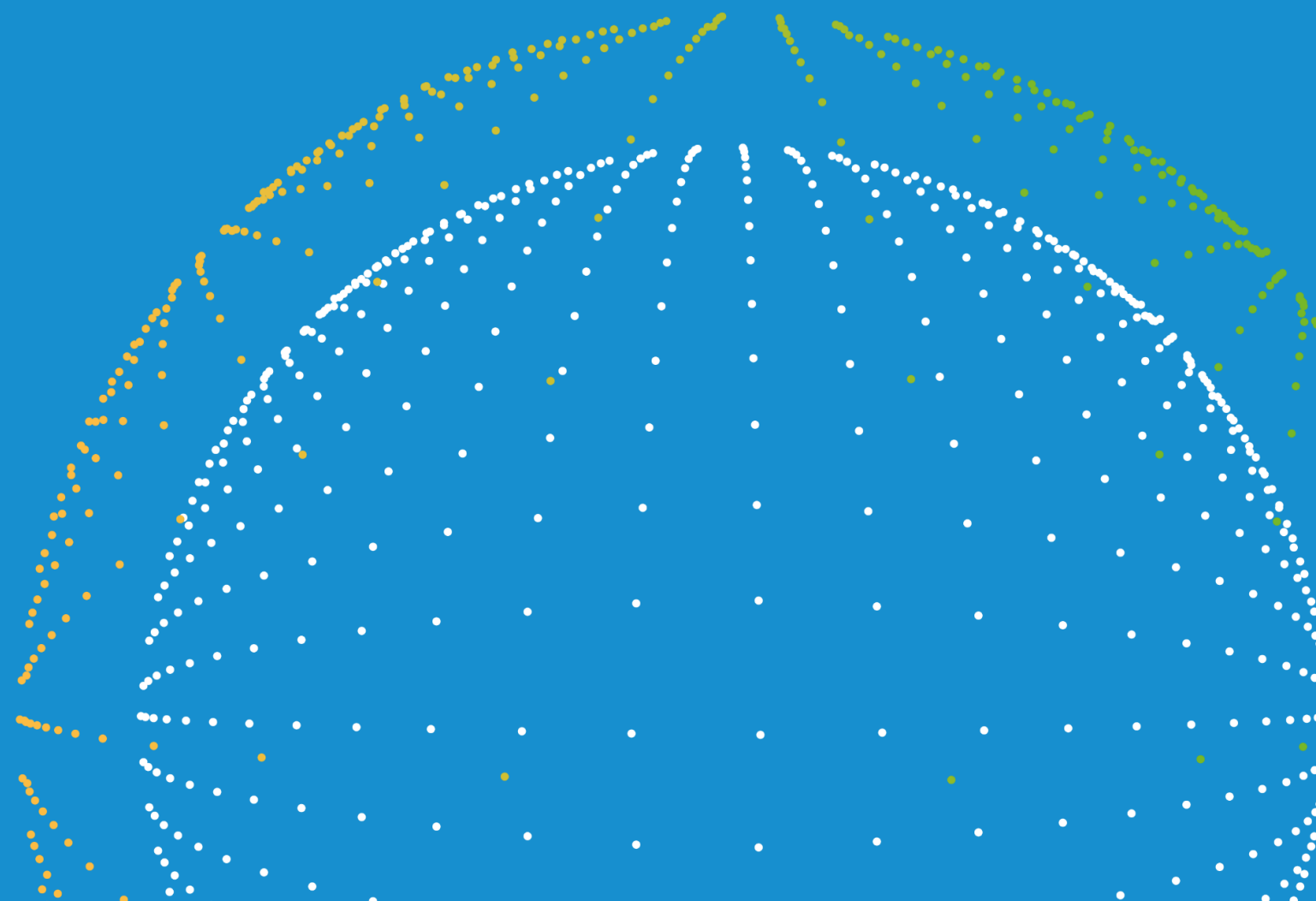


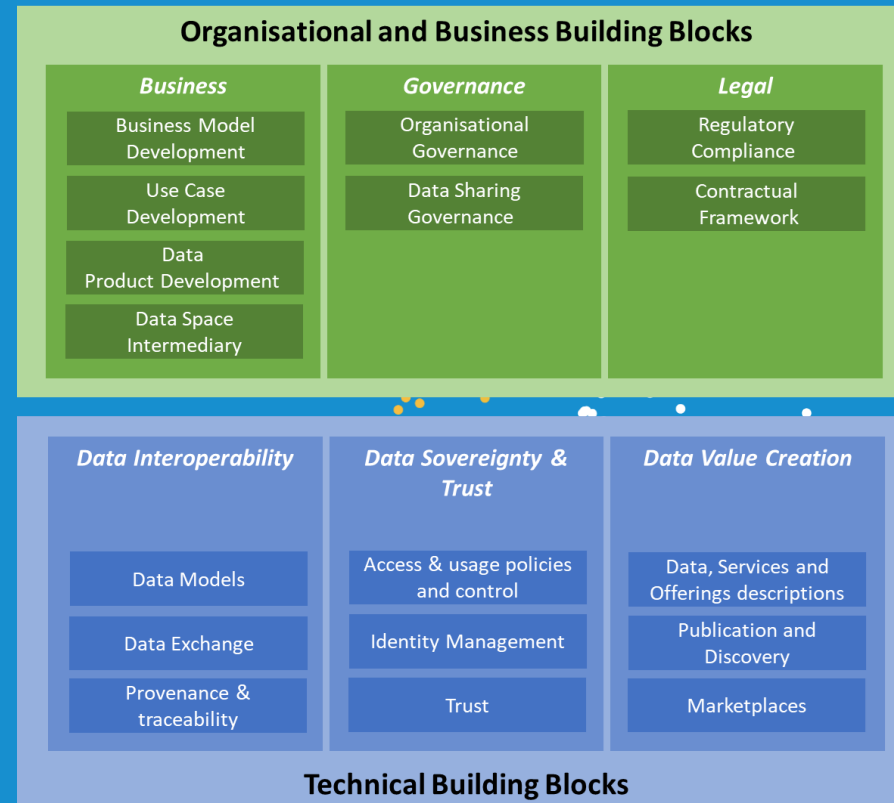
Data Spaces Business Alliance

Achieving data space tech
convergence

Matthijs Punter
Klaus Ottradovetz



DSSC Building Blocks...



...need to be viewed in different dimensions

Governance Plane

- Regulatory, Domain, Ecosystem

Technology Specification Plane

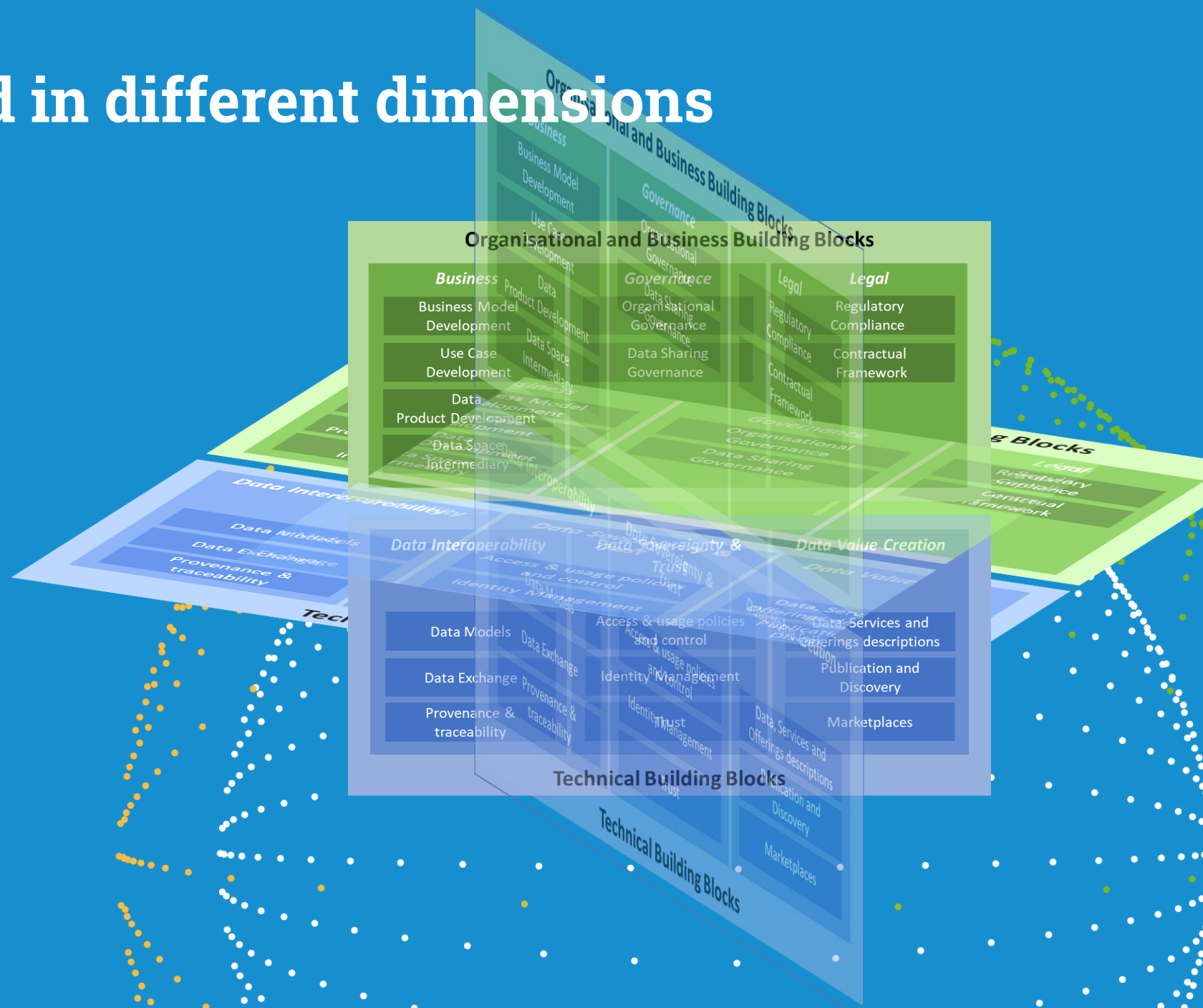
- Distributed Model
- Data Exchange
- Trust and Sovereignty
- Data Value Creation

Software & Services Plane

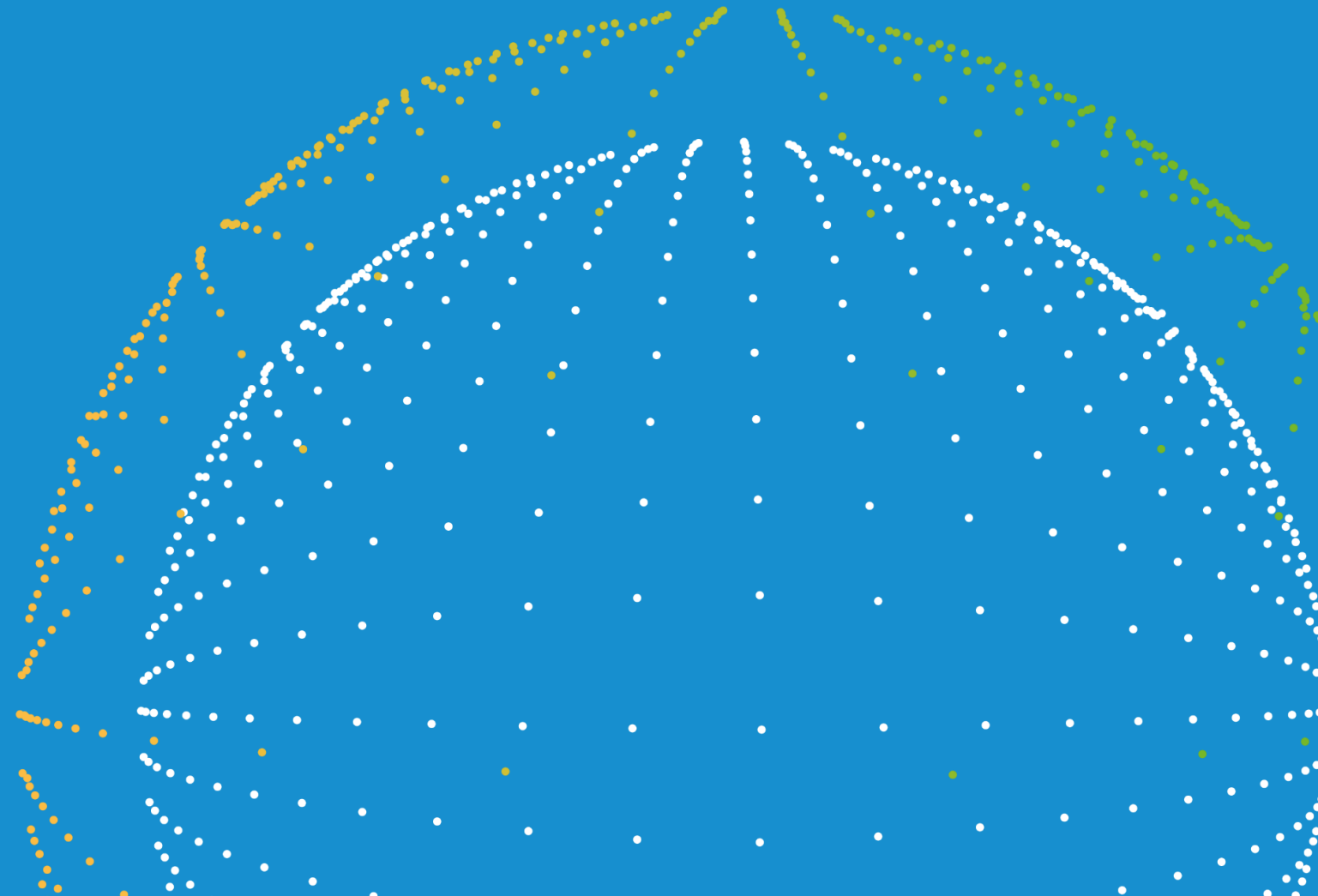
- OSS Community projects
- Commercial software
- Software Services
- Platforms

Commercialization Plane

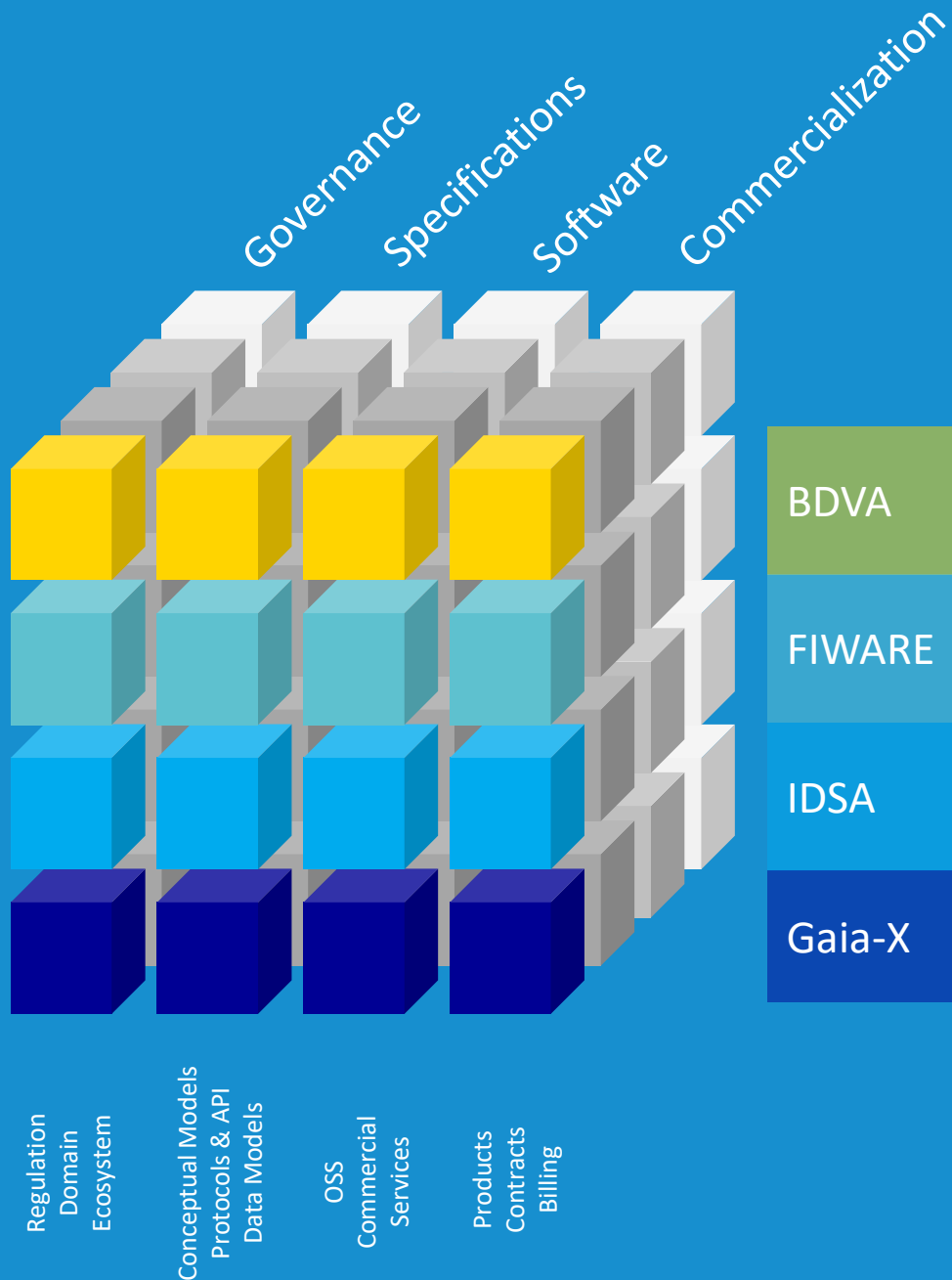
- Operationalization
- Data & Service Platforms
- Marketplaces
- Billing



...there are many solutions to address all requirements...

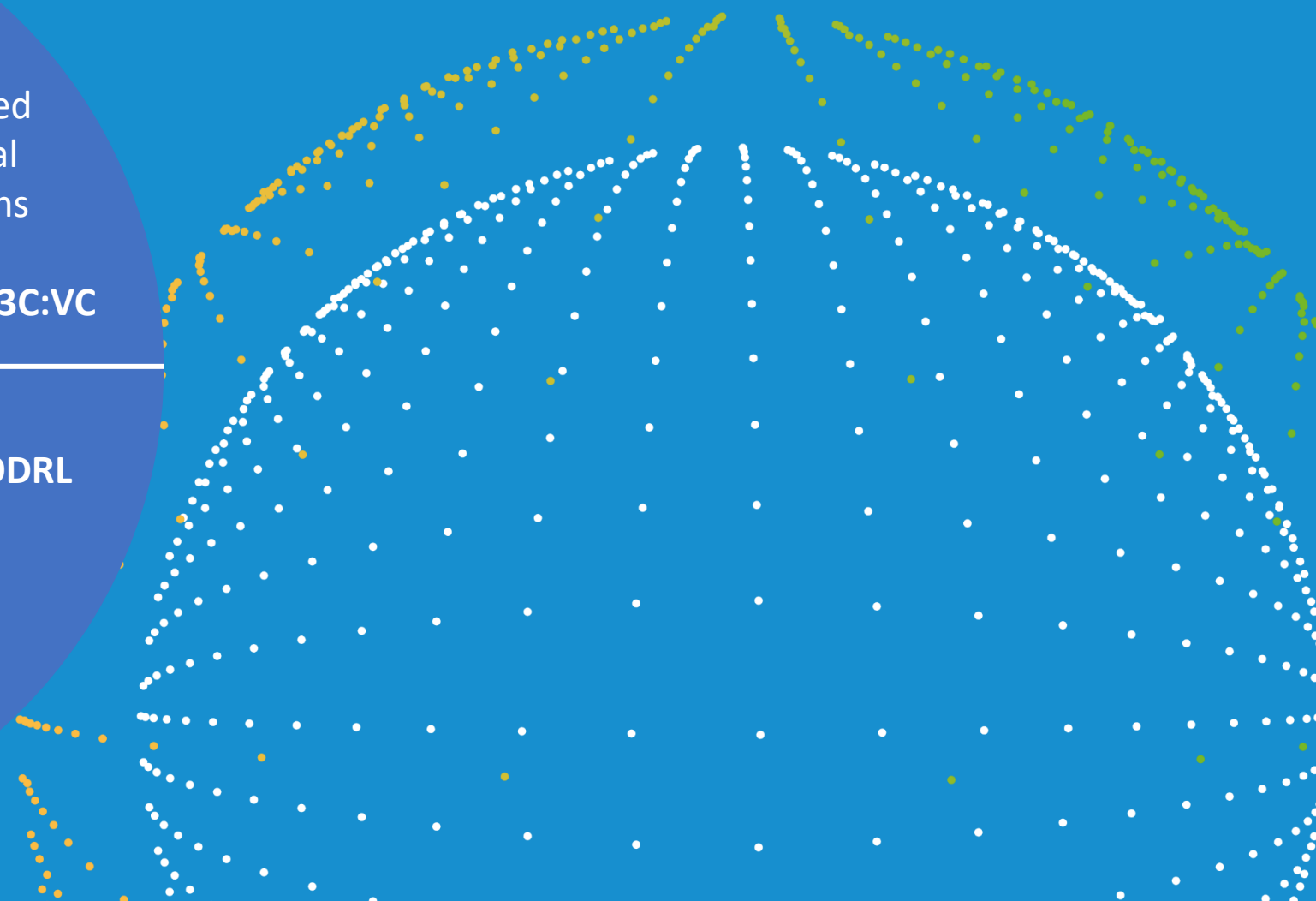
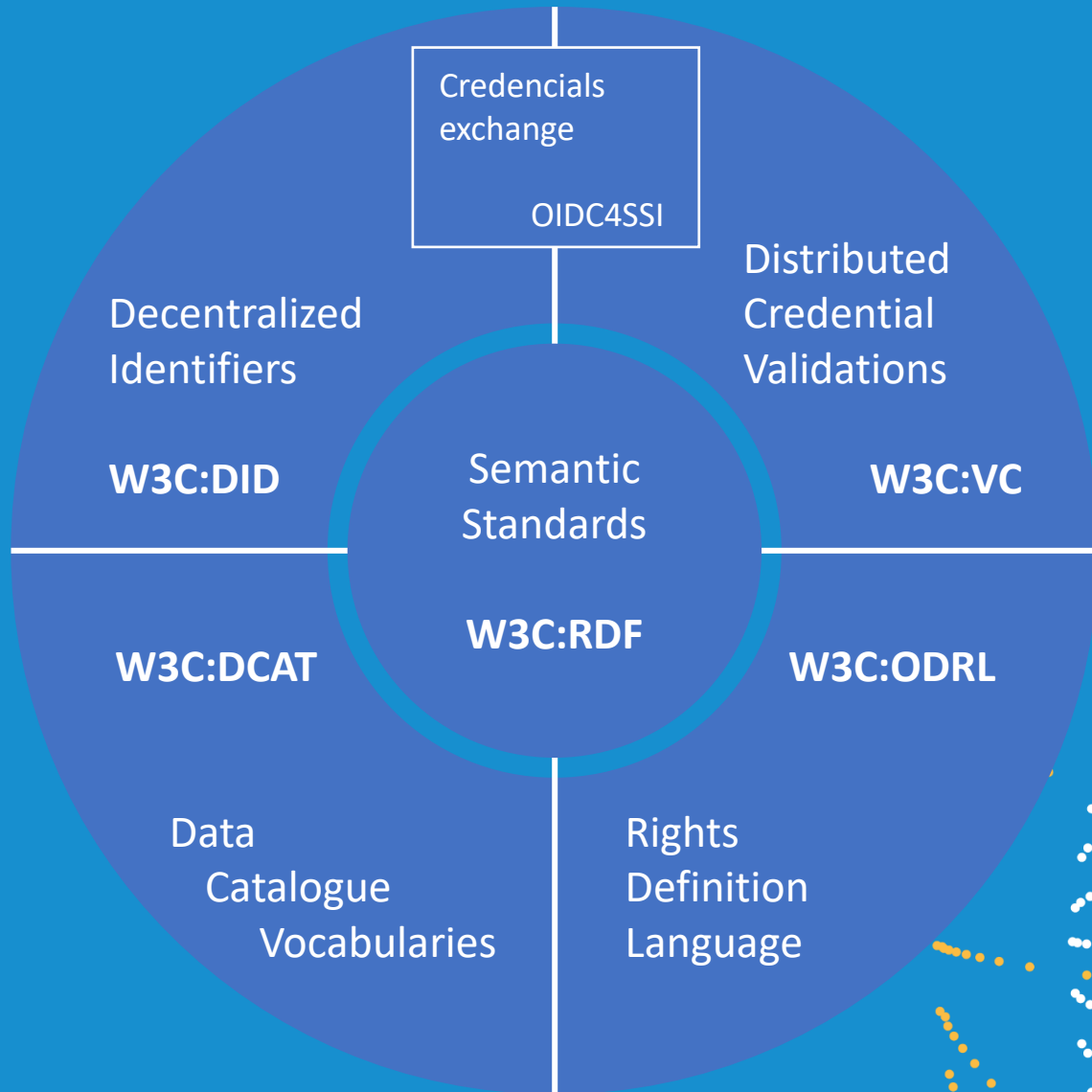


DSBA Convergence...

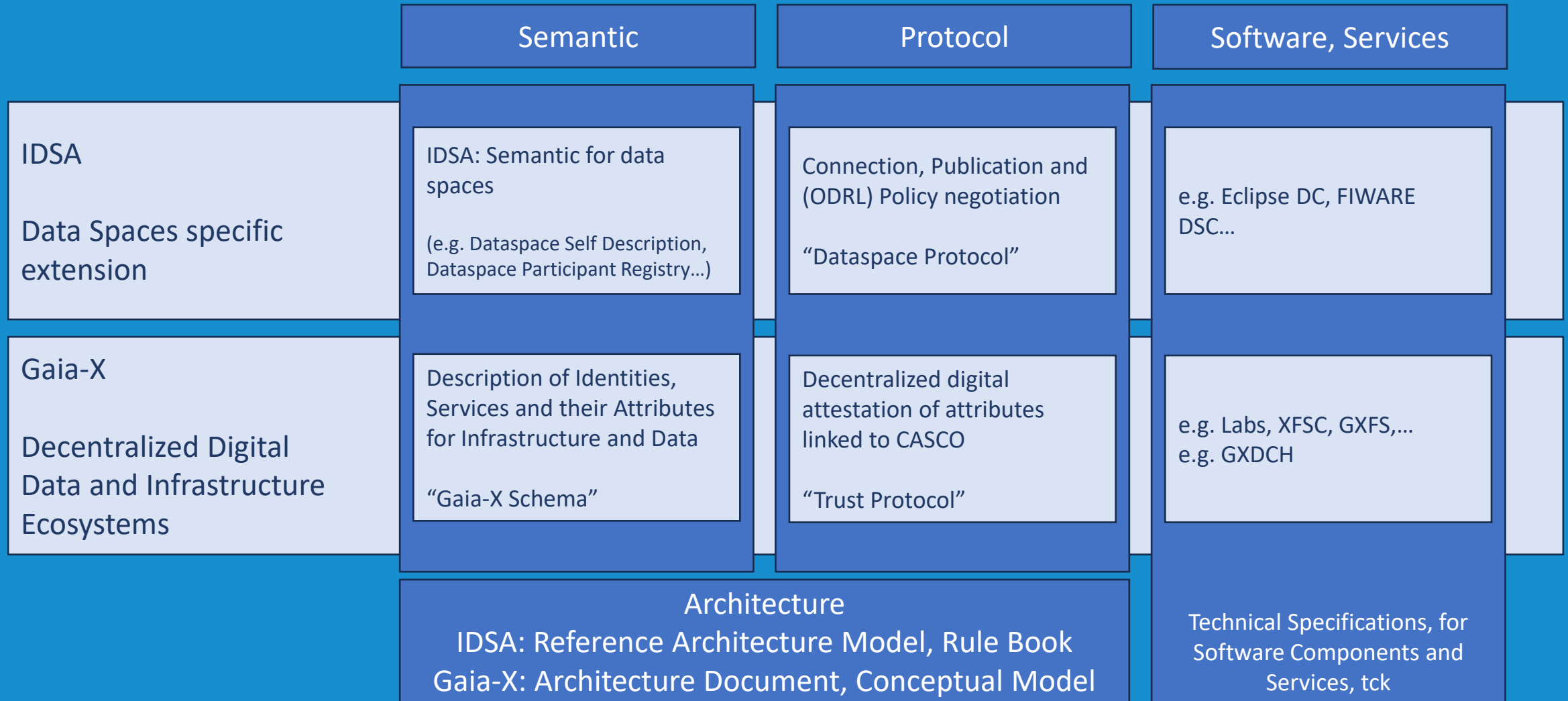


	Contributing Specifications	Contributing OSS & Services
BDVA	Data Value	<Methodologies, Models>
FIWARE	Linked Data Exchange (NGSI-LD) Marketplace (TM Forum Open APIs)	Generic Enablers, Marketplace, FIWARE Data Space Connector
IDSA	Data Space Protocol	<Communities>
Gaia-X	Trust Framework	Gaia-X Compliance, GXDCH <Communities>

Convergence: Common Basis

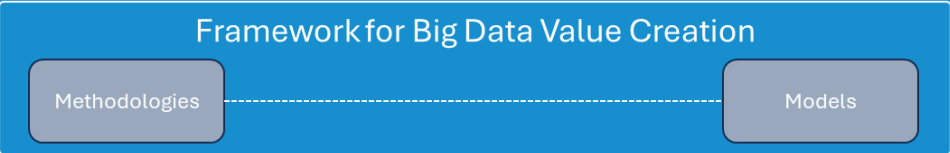


Basic Enablers for Trust and Data Sovereignty

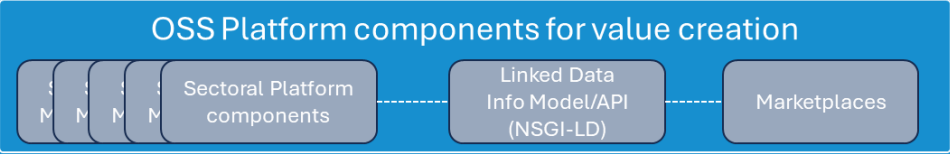


Complementary, integrated specifications

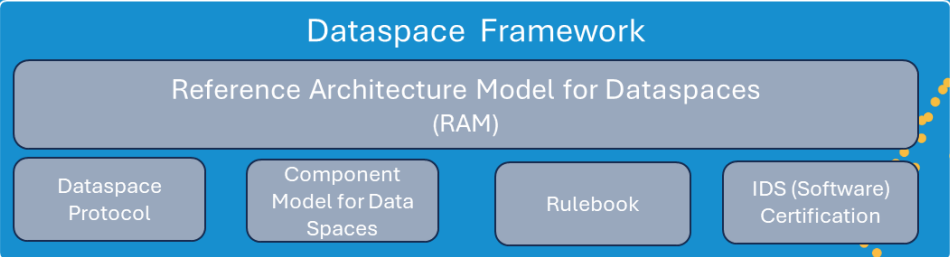
BDVA



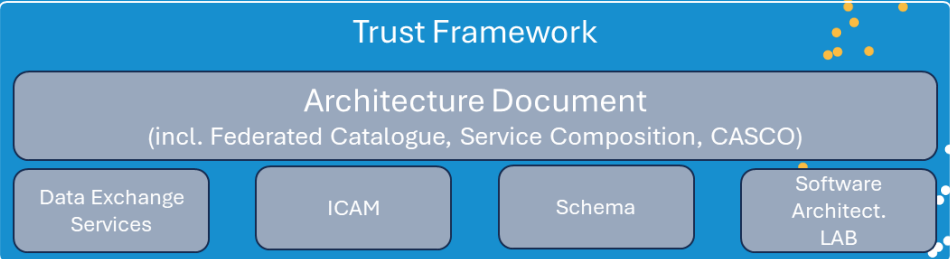
FIWARE



IDSA



Gaia-X



W3C: RDF, DID, VC, DCAT, ODRL

Specification of components and protocols to allow trusted data exchange

Conceptual model (attributes and rules) for consent management in data exchange

DSBA

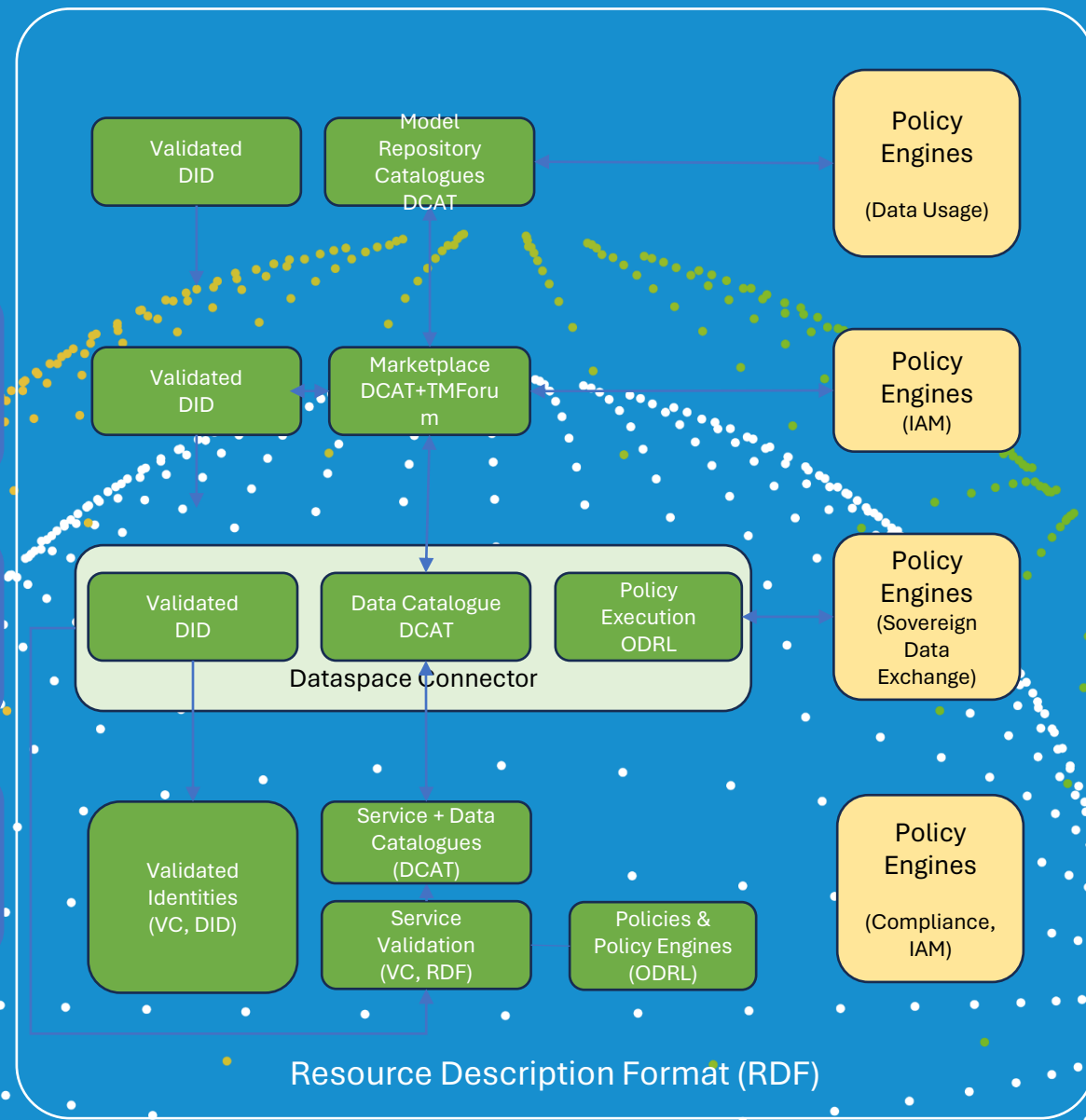
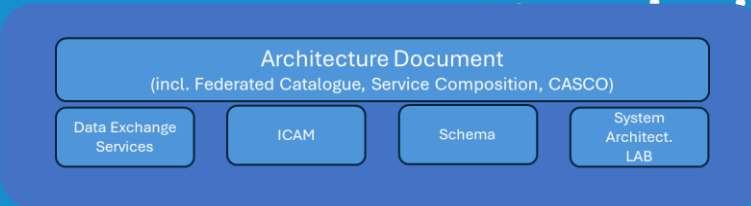
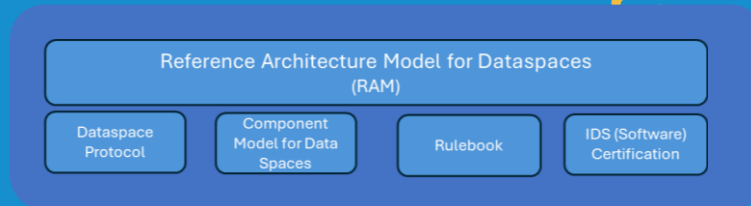
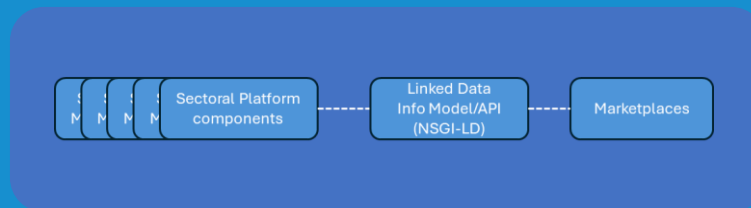
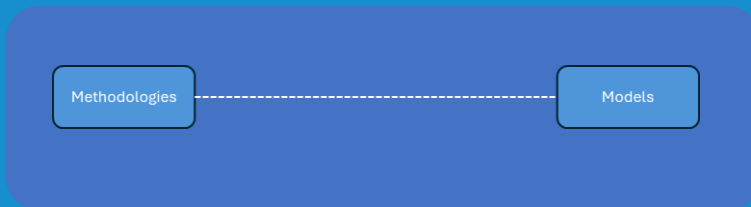
BDVA
Framework for big data value creation

FIWARE
OSS Platform components for value creation

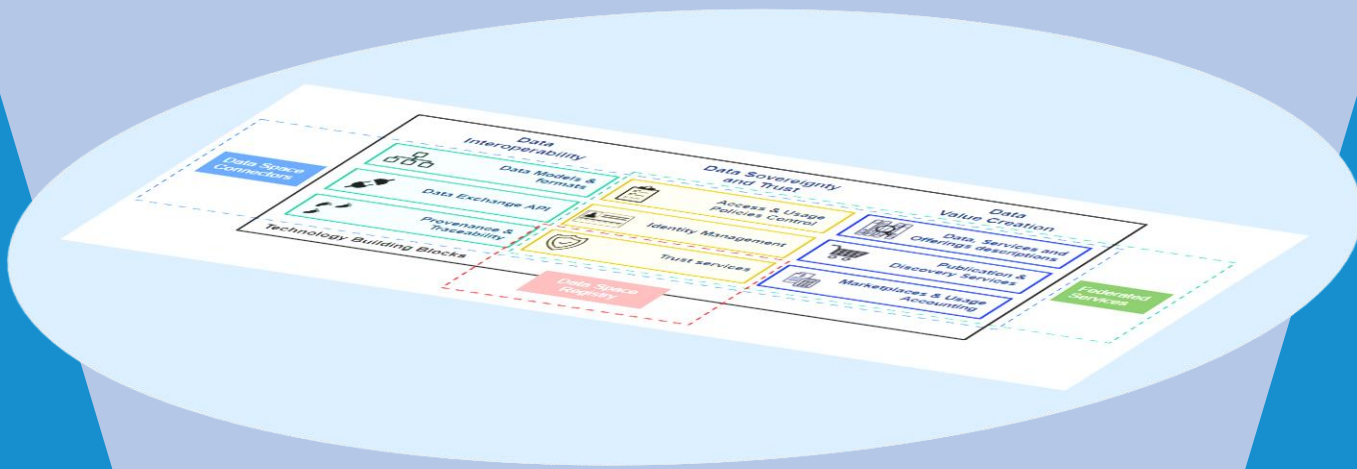
IDSA
Dataspace components and protocols

Gaia-X
Trust Framework distributed digital ecosystems (infra & data)

Specifications & simplified top level component view



Common Standards



DSBA Reference Specification (“DSBA Convergence Document v2”):

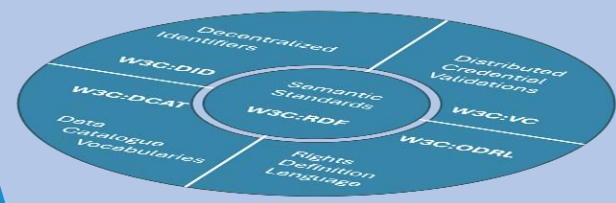
Full stack, incl:

- Data Exchange API and Data Models
- Marketplace functions (connector & data space global level)

	Semantic	Protocol	Software Services
DSBA Data Spaces specific extension Data-X Decentralized Digital Data and Infrastructure Ecosystems	Ontology Data Model Data Exchange API Provenance & Traceability Access & Usage Policies Control Identity Management Trust services	Data Exchange API Data Models & Formats Data Exchange API Data Models & Formats Data Exchange API Data Models & Formats	Data Services and Offerings descriptions Discovery Services Publication & Usage Accounting Marketplace & Usage Accounting Data Space Connectors Technology Building Blocks Data Space Objects
DSBA Reference Architecture Model, Rule Book Data-X Architecture Document, Conceptual			
Additional Specifications, on Software Services, etc.			

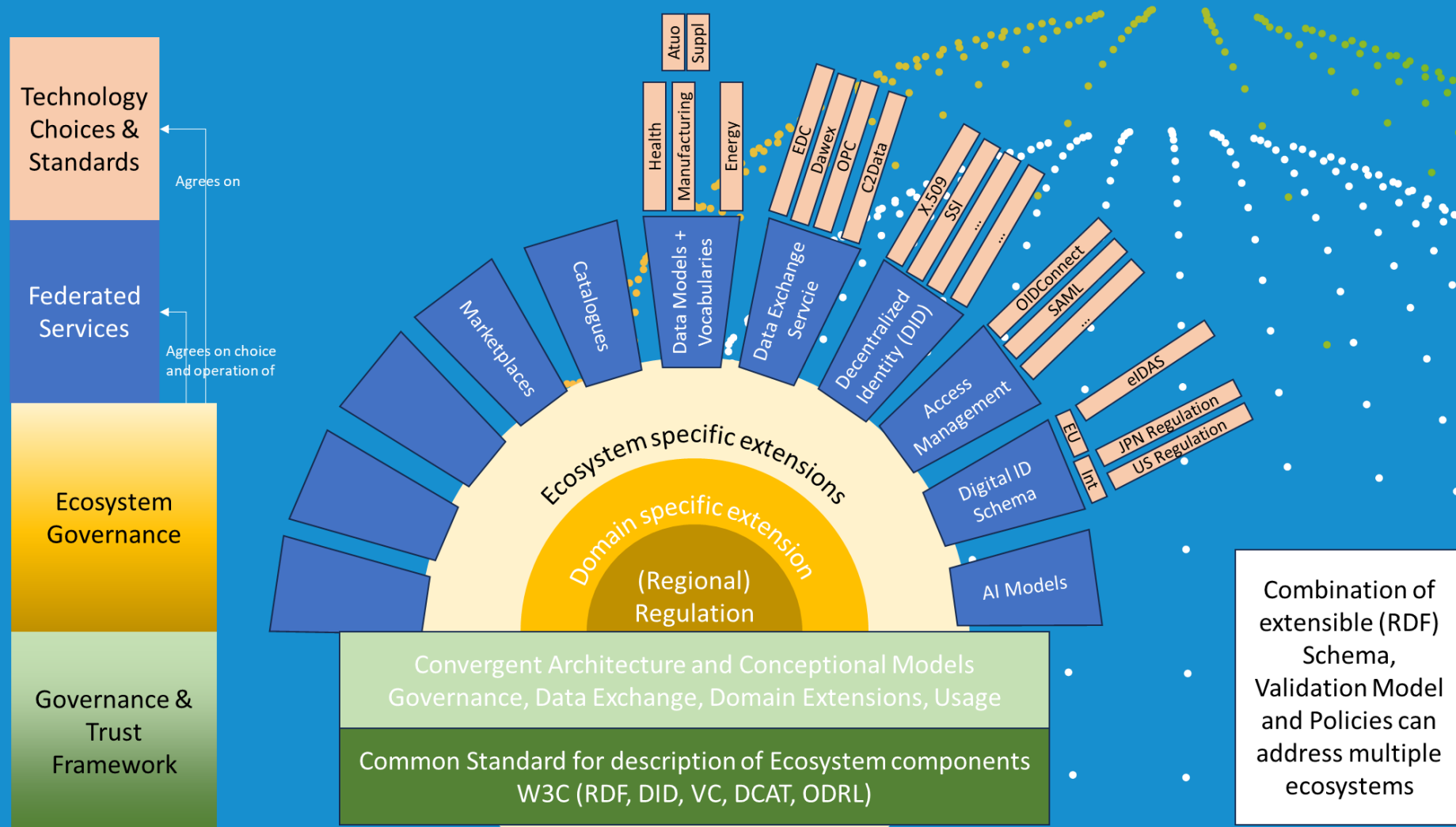
Basic Enablers for Trust and Data Sovereignty:

- Trust Framework
- Data Spaces Protocol

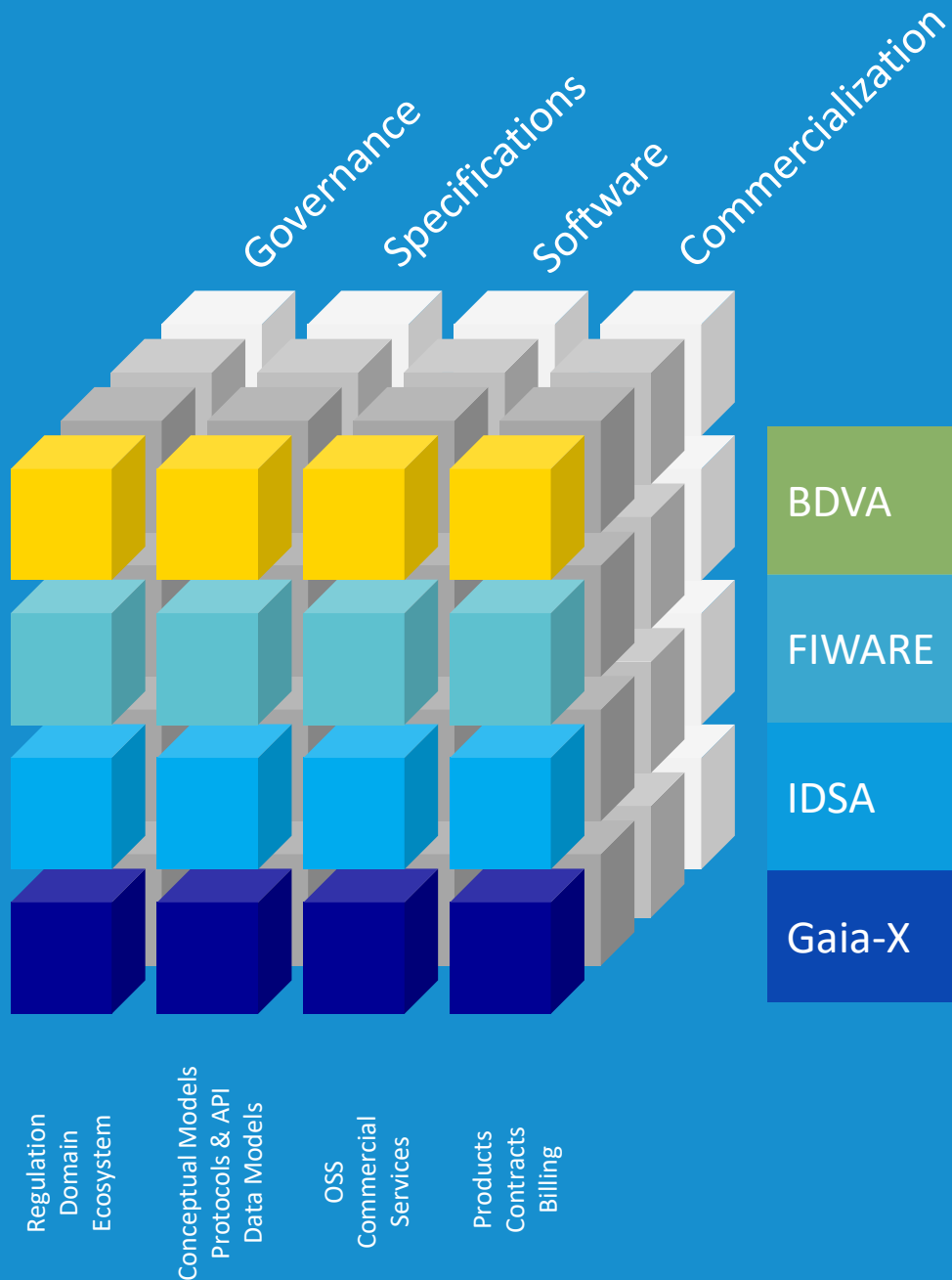


Foundational global standards for distributed systems

Basis for interoperable extensions



DSBA Convergence...



	Contributing Specifications	Contributing OSS & Services
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