BDV BIG DATA VALUE ASSOCIATION

Collaboration, support and data value creation in data spaces

Madrid, 3rd December 2024

Ana García Robles (Secretary General, BDVA)

Data Spaces Business Alliance

DATA SPACES SUPPORT CENTRE

Data Spaces Business Alliance

Unleashing the Data Economy

BDV BIG DATA VALUE ASSOCIATION

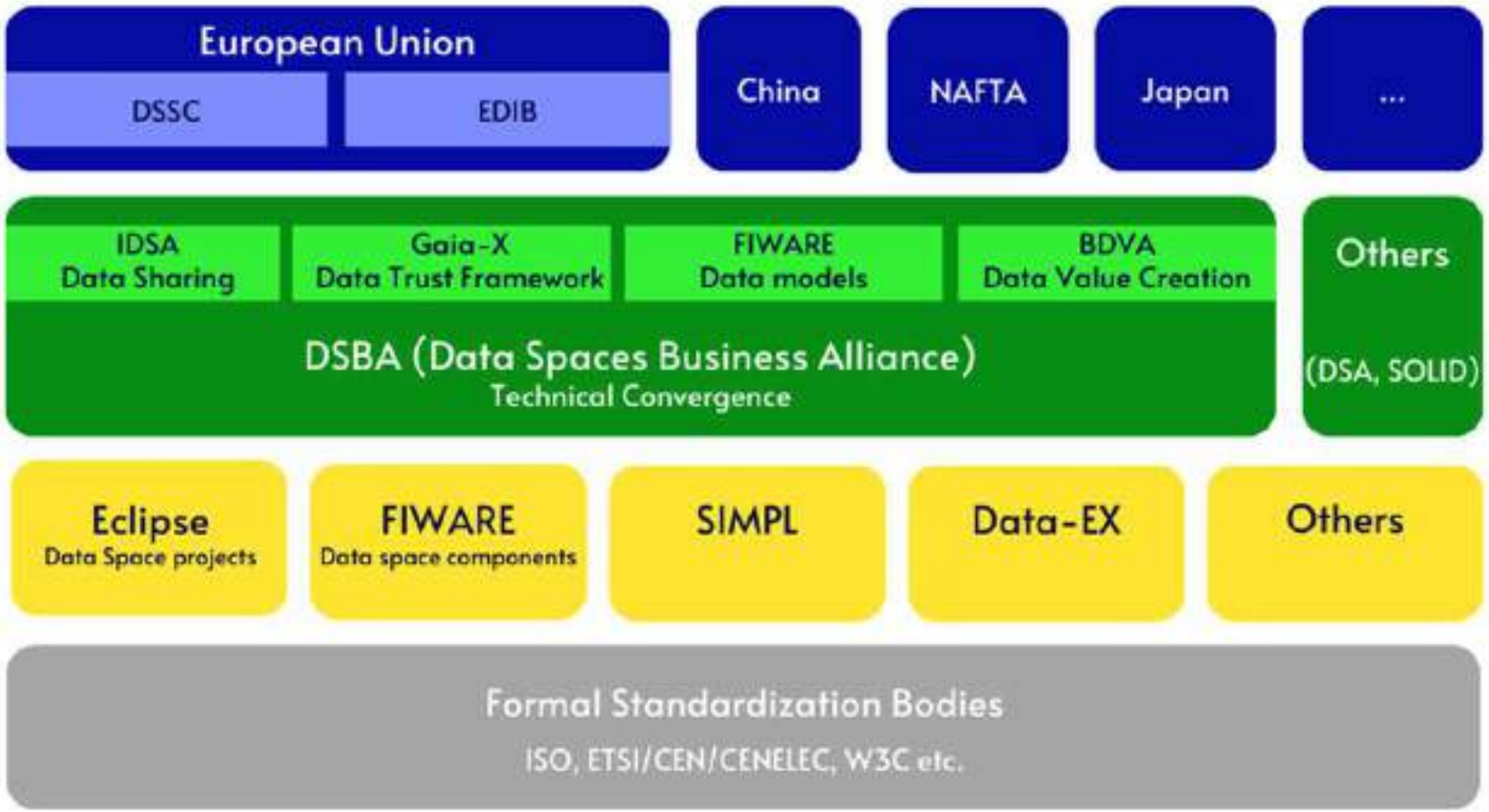
FIWARE FOUNDATION

gaia-x

INTERNATIONAL DATA SPACES ASSOCIATION

Regulatory, business and technical foundation for Data Spaces within the Edge-Cloud-Continuum

Data Spaces Business Alliance



Data regulations in economic regions

Data strategies implementation

User requirements, Voice of the communities, coordinate technical specs and business requirements, support to "business design"

Alignment in technical specifications and standards to adopt

Technical implementation driven by OSS, place for the developer communities

Long-term investment security, adoption support etc. through norms and standards

Data Spaces Business Alliance

DSBA ■ HubSpace

FILTERS

Name

Networks

- [x] BDVA iSpace
- [x] FIWARE iHub
- [x] Gaia X
- [x] IDSA Hubs & CC

Sectors

- [ ] Aerospace
- [ ] Agriculture / Agrifood
- [ ] Cultural heritage
- [ ] Energy
- [ ] Finance
- [ ] Geoinformation
- [ ] Green Deal/Circular Economy
- [ ] Health
- [ ] Language
- [ ] Logistics
- [ ] Manufacturing

HUBS MAP

DATA SPACES SUPPORT CENTRE

Data Spaces Support Centre Overview

The Data Spaces Support Center receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

Funded by the European Union

The DSSC and its mission

DATA SPACES SUPPORT CENTRE

Partners

BDV
Capgemini invent
FIWARE Foundation
Fraunhofer
gaia-X
INTERNATIONAL DATA SPACES ASSOCIATION
KU LEUVEN
MyData
SITRA
TNO innovation for life
VTT

Associated and collaboration partners

acatech
c22
Cefriel
CoE DSC
DIGITALEUROPE
ILVO
INNOPAY
iSHARE
medtech
GATE

Recently delivered !

DATA SPACES SUPPORT CENTRE

Blueprint v1.5:

- Updates in the Data Space Building Blocks, Co-creation Method, Glossary & Conceptual Model.

Toolbox v1.0:

- A curated catalogue of data space solutions (tools), like connectors/ participant agents and federated services and more components you need to set up, participate in and operate a data space.

Data Space Design:

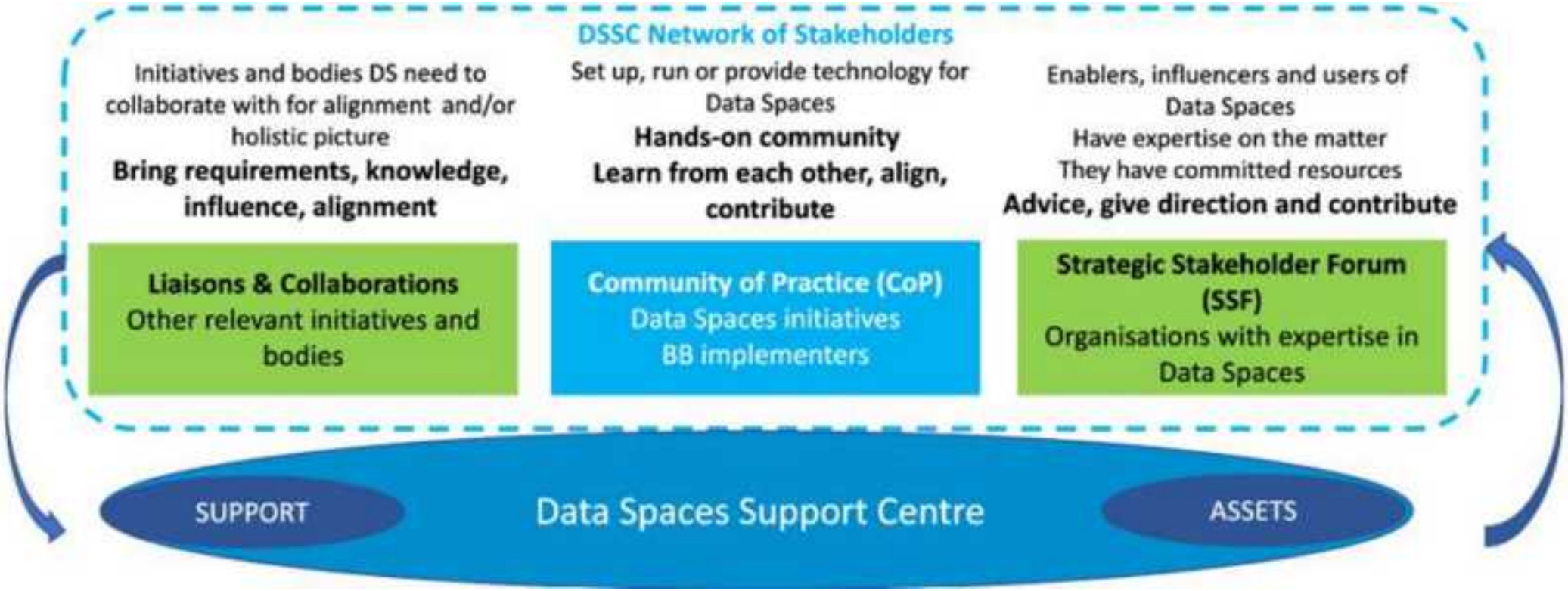
- Updated version of the Starter Kit, Design Principles paper and Synergies paper.

Several resources delivered with our network of Stakeholders

- "Generative AI and Data Spaces" White Paper.

Funded by the European Union

The Network of Stakeholders (NoS)



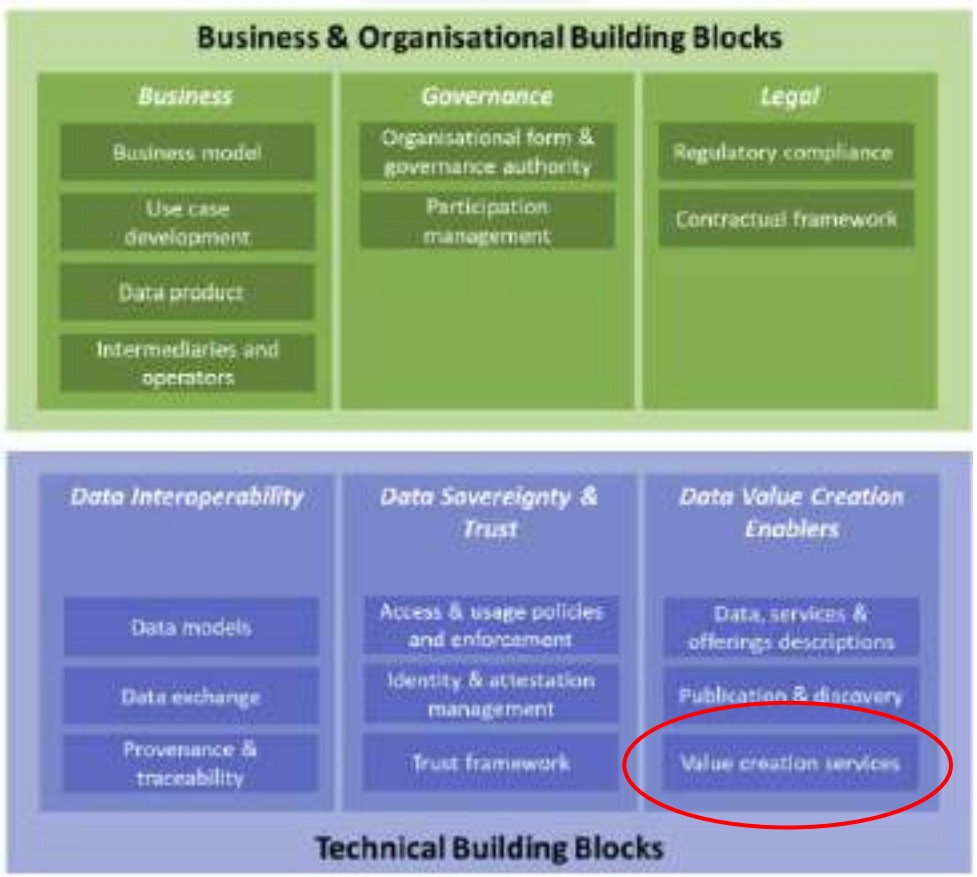
- Composition:
  - **17 fully engaged Initiatives in the Community of Practice** (preparatory & deployment actions funded by DEP, HE),
  - **32 members in the Strategic Stakeholder Forum** from 12 EU countries (DGs, RTOs, member state public Authorities),
  - **+90 engaged initiatives in Liaisons & Collaborations** (EDIB, SDOs, R&I projects, EU data initiatives, AI, Cloud-to-Edge, ,..).

The Data Spaces Support Center receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

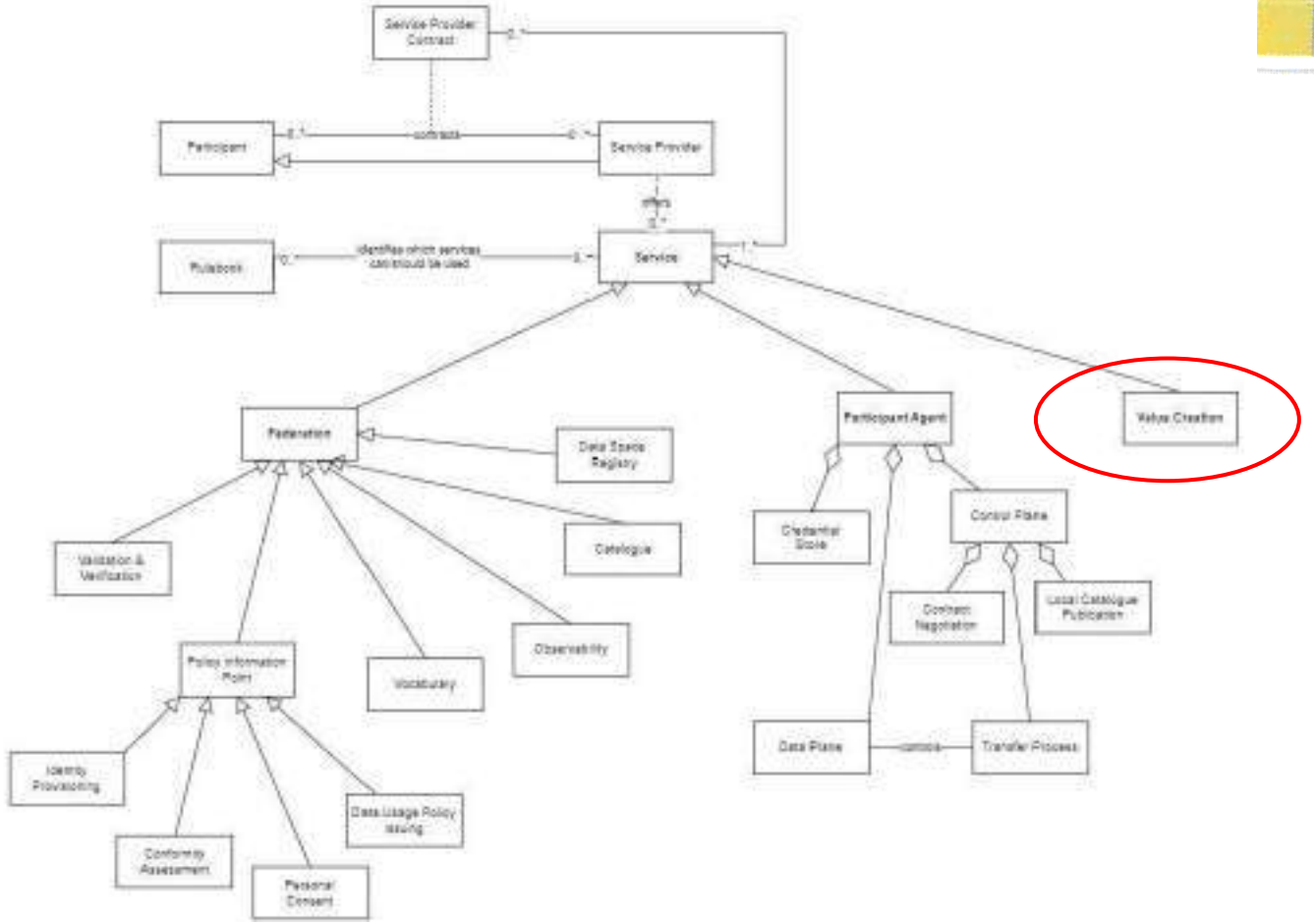
Funded by the European Union

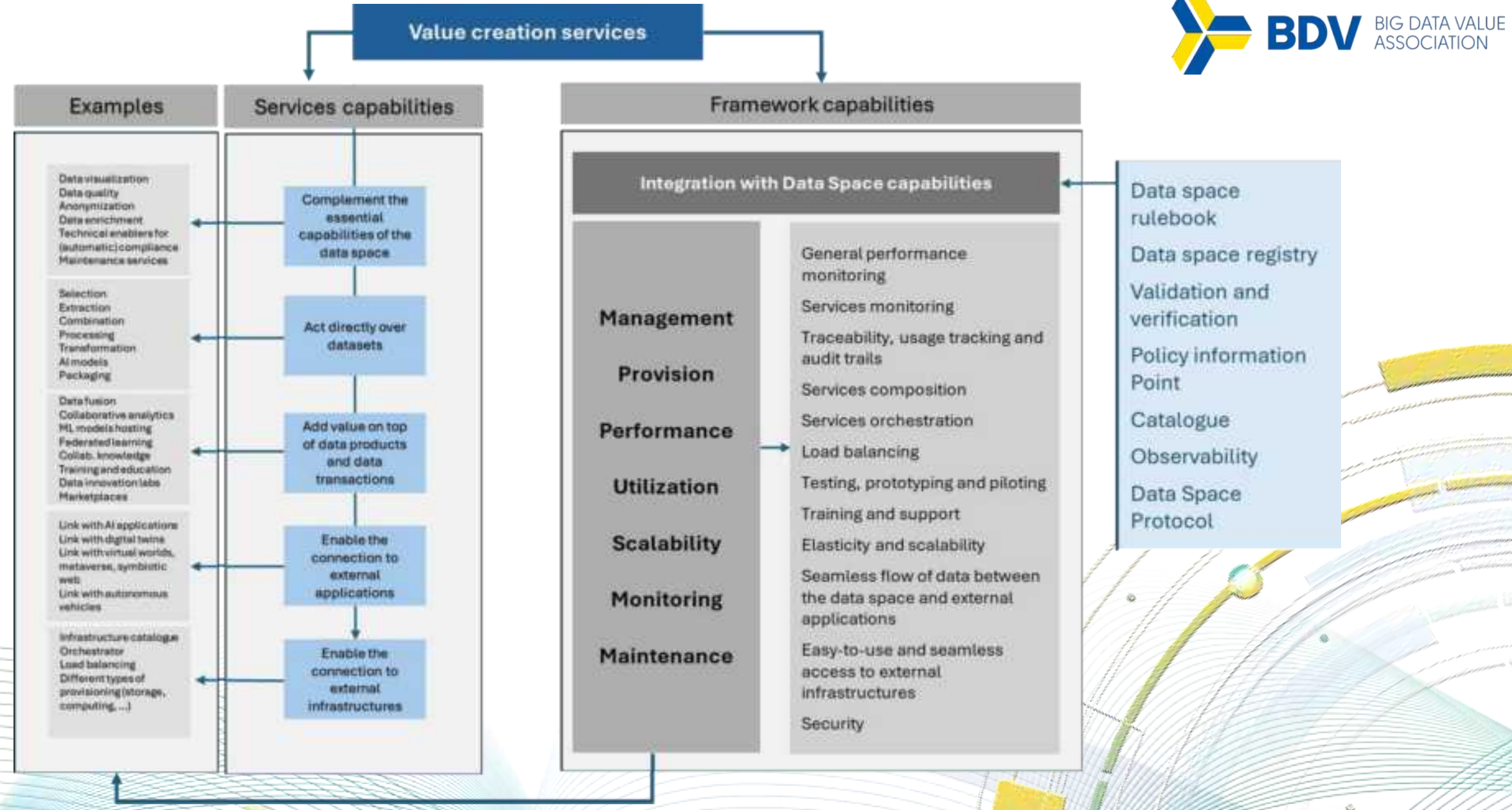
Contribution of BDVA to the DSSC Blueprint 1.5

Building blocks



Services for implementing Technical Building Blocks




Value creation services
Examples
Services capabilities
Framework capabilities
Data visualization
Data quality
Anonymization
Data enrichment
Technical enablers for (automatic) compliance
Maintenance services
Selection
Extraction
Combination
Processing
Transformation
AI models
Packaging
Data fusion
Collaborative analytics
ML models hosting
Federated learning
Collab. knowledge
Training and education
Data innovation labs
Marketplaces
Link with AI applications
Link with digital twins
Link with virtual worlds, metaverse, symbiotic web
Link with autonomous vehicles
Infrastructure catalogue
Orchestrator
Load balancing
Different types of provisioning (storage, computing, ...)
Complement the essential capabilities of the data space
Act directly over datasets
Add value on top of data products and data transactions
Enable the connection to external applications
Enable the connection to external infrastructures
Integration with Data Space capabilities
Management
Provision
Performance
Utilization
Scalability
Monitoring
Maintenance
General performance monitoring
Services monitoring
Traceability, usage tracking and audit trails
Services composition
Services orchestration
Load balancing
Testing, prototyping and piloting
Training and support
Elasticity and scalability
Seamless flow of data between the data space and external applications
Easy-to-use and seamless access to external infrastructures
Security
Data space rulebook
Data space registry
Validation and verification
Policy information Point
Catalogue
Observability
Data Space Protocol

BDV BIG DATA VALUE ASSOCIATION

Overview to BDVA objectives and outcomes

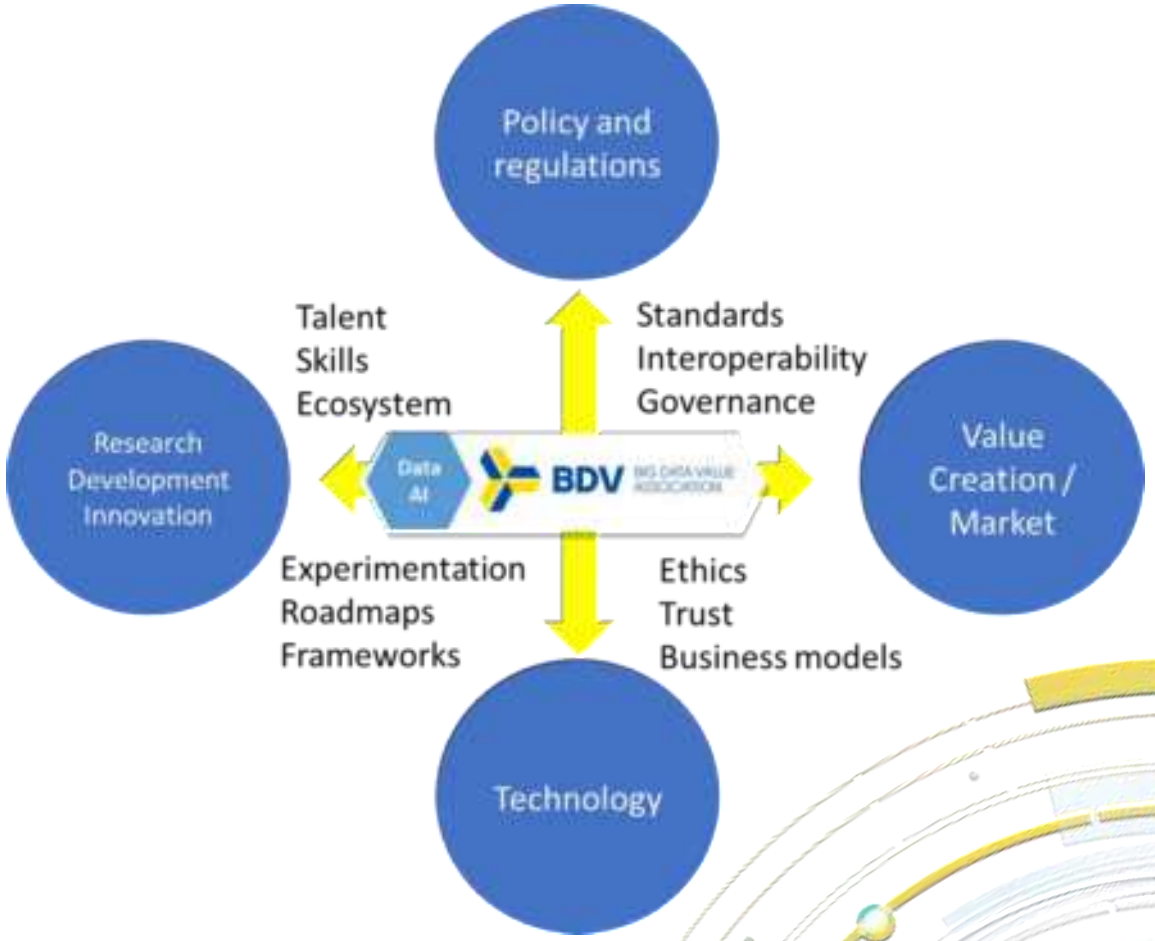
Overall objectives

To boost Data and AI innovation and data value creation for business, citizens and the environment

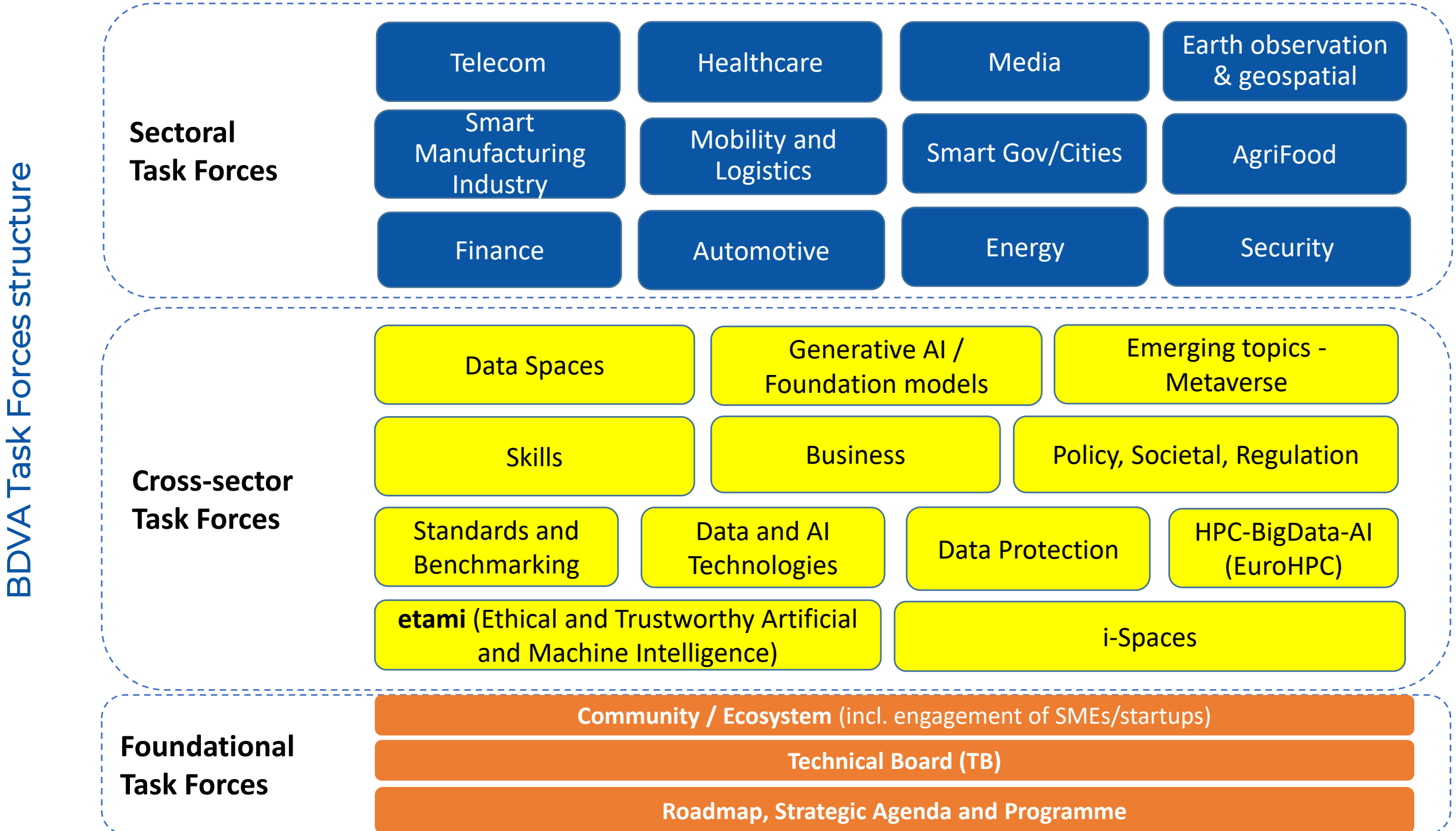
To foster excellence in Data and AI research for competitiveness

To develop the innovation ecosystem that enables and accelerates Data and AI economy with European values and focus but global impact and ambitions

To lead and be at the forefront of the dynamic change that Data and AI brings to business. public sector and society



International non-profit association:
Industry-driven research and innovation Data/AI community with over 250 members all over Europe.


BDVA Task Forces structure
Sectoral Task Forces
Telecom
Healthcare
Media
Earth observation & geospatial
Smart Manufacturing Industry
Mobility and Logistics
Smart Gov/Cities
AgriFood
Finance
Automotive
Energy
Security
Cross-sector Task Forces
Data Spaces
Generative AI / Foundation models
Emerging topics - Metaverse
Skills
Business
Policy, Societal, Regulation
Standards and Benchmarking
Data and AI Technologies
Data Protection
HPC-BigData-AI (EuroHPC)
etami (Ethical and Trustworthy Artificial and Machine Intelligence)
i-Spaces
Foundational Task Forces
Community / Ecosystem (incl. engagement of SMEs/startups)
Technical Board (TB)
Roadmap, Strategic Agenda and Programme

BDVA Strategic Agenda to guide industrial sectors

Empowering European industries and societies for a human-centric digital future

Expanding data-driven ecosystems across sectors and (global) value chains

Making data and AI innovations fit for emerging infrastructures and platforms

Sustainable data and AI: enhancing efficiency and resilience while reducing resource demands

Integrating innovation, ethics and compliance

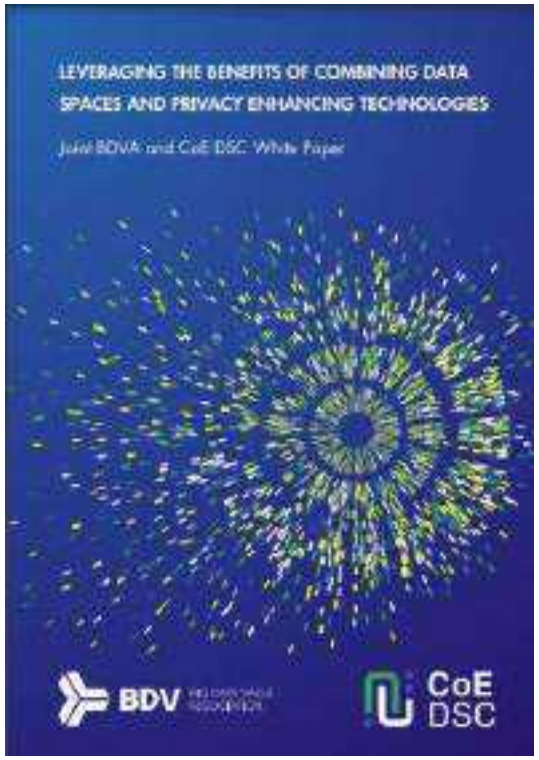
https://bdva.eu/docs/bdva-strategic-agenda-2024/

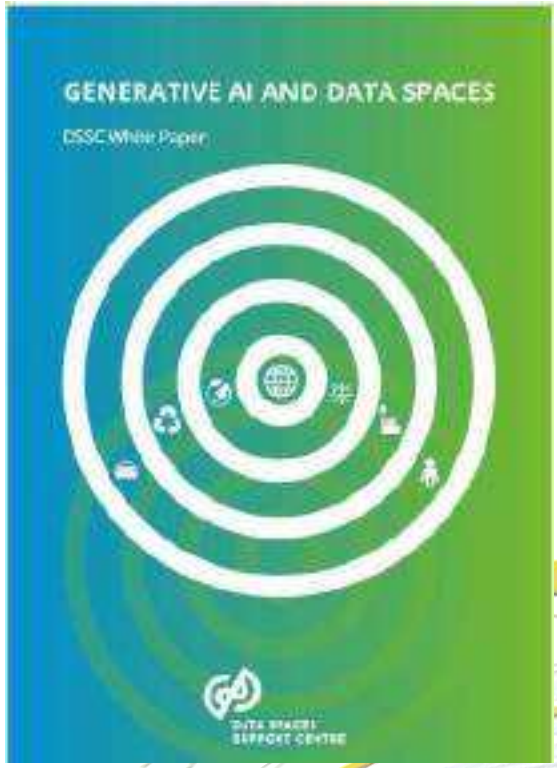
BDV BIG DATA VALUE ASSOCIATION

Activities led by Task Forces

Empowering European industries and societies for a human-centric digital future	• Promote the adoption of Generative AI across sectors, including the public sector and citizens (addressing personal data concerns), • Exploring virtual worlds in federated digital ecosystems • Other emerging topics (e.g Quantum-AI)
Expanding data-driven ecosystems across sectors and (global) value chains	• Enhance the data value creation framework • Data sharing for generative AI, • Interoperability and Synergies framework, including semantic interoperability.
Making Data and AI innovations fit for emerging infrastructures and platforms	• Collaboration with the AI factories (as private member of the EuroHPC JU) • Big Data and AI over the computing continuum
Sustainable data and AI	• Promotion of sustainable data and AI and data and AI for sustainability
Integrating innovation, ethics and compliance	• Advance ethical AI and tools for AI Act implementation (etami), • Data and AI for compliance • network of national experts on regulatory sandboxes, • i-Spaces Federation to drive innovation, experimentation, and adoption in Data and AI.

Latest publications linked to the BDVA framework





BDVA labelled i-Spaces

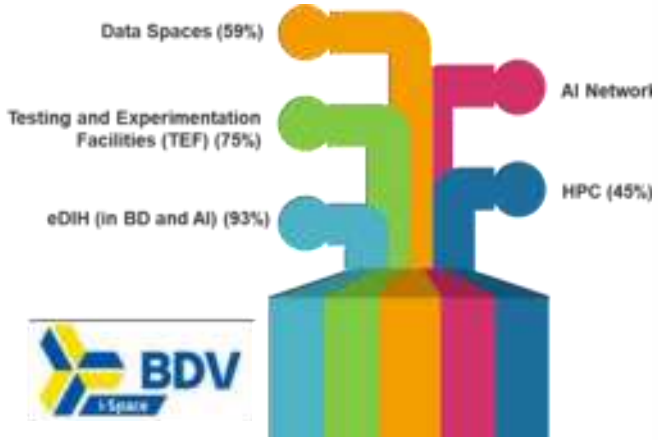
BDV i-Space BRONZE

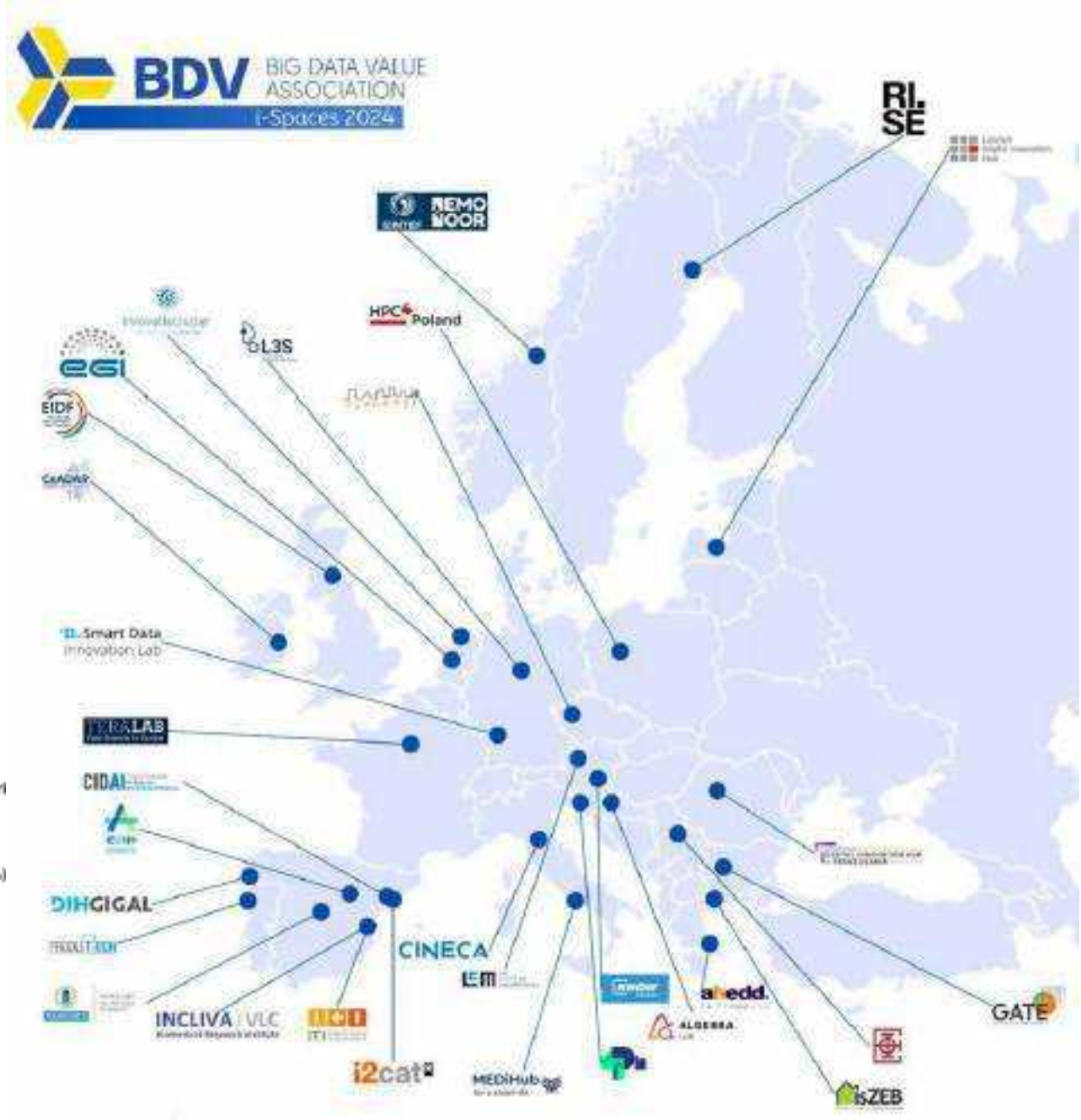
BDV i-Space SILVER

BDV i-Space GOLD

BDV i-Space PLATINUM

EUHUB
EUROPEAN FEDERATION OF DATA DRIVEN INNOVATION HUBS

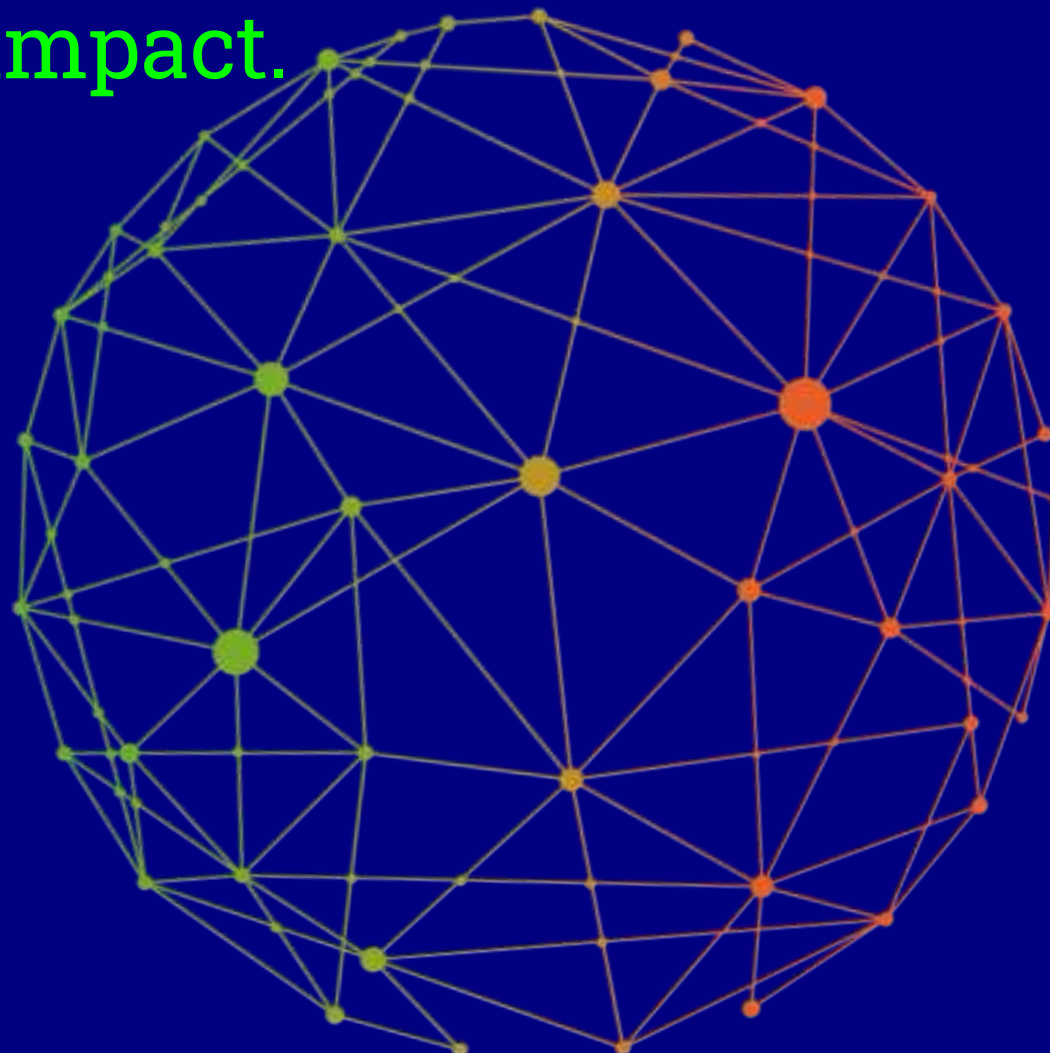




Data Spaces Symposium

Share data. Unlock value. Boost impact.

Warsaw | 11 & 12 March 2025



DSBA ■ BDV FIWARE FOUNDATION gaia-x INTERNATIONAL DATA SPACES ASSOCIATION

DATA SPACES SUPPORT CENTRE

Funded by the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

Thank you!

Ana García Robles
Secretary General BDVA
ana.garcia@bdva.eu

https://www.bdva.eu/

BDV BIG DATA VALUE ASSOCIATION