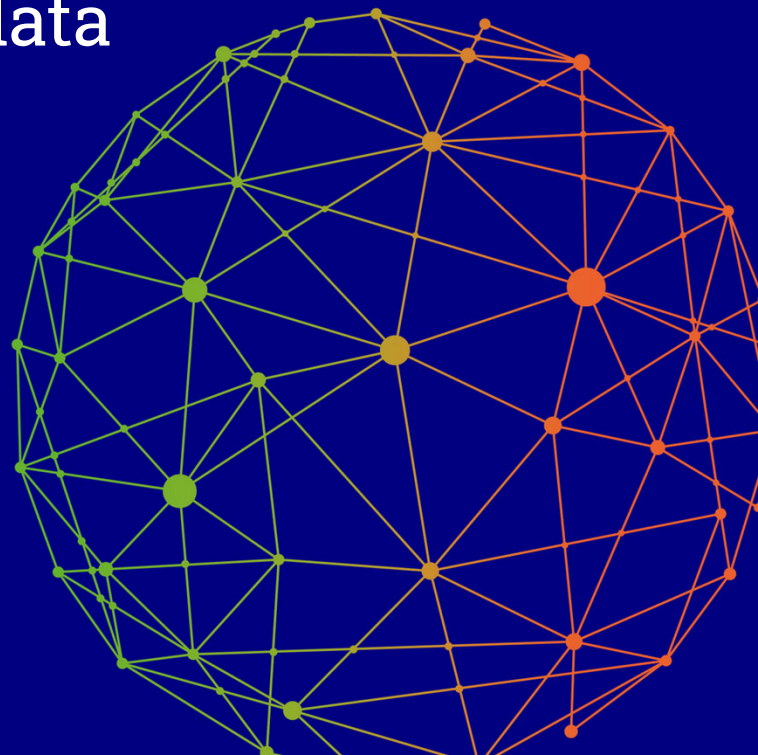
Data Spaces Symposium

17:20

Economic opportunities through the shaping of data governance at bilateral and multilateral level

Plenary session



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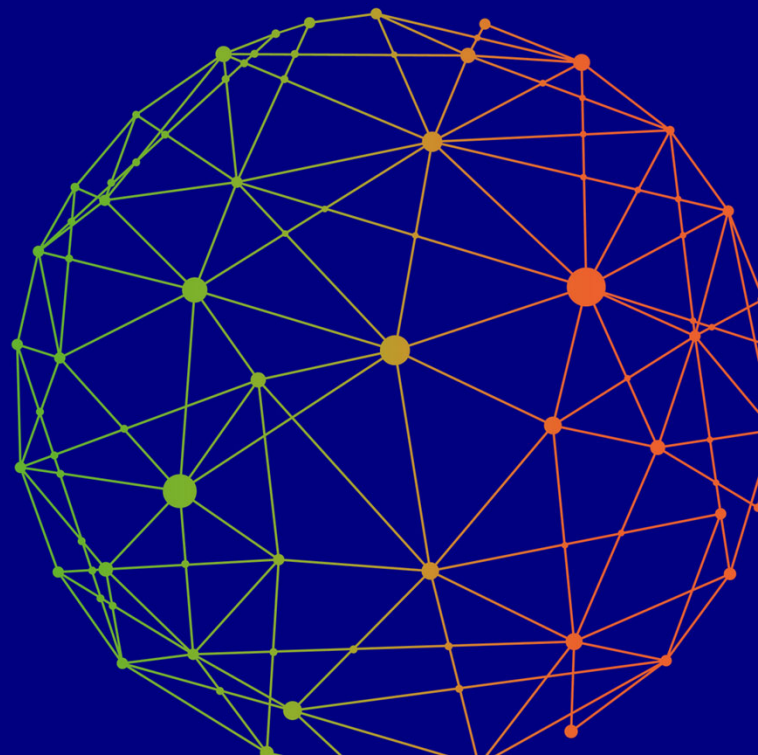
Data Spaces Symposium

Achieving trust in the global data economy and Japan

Satoru Tezuka



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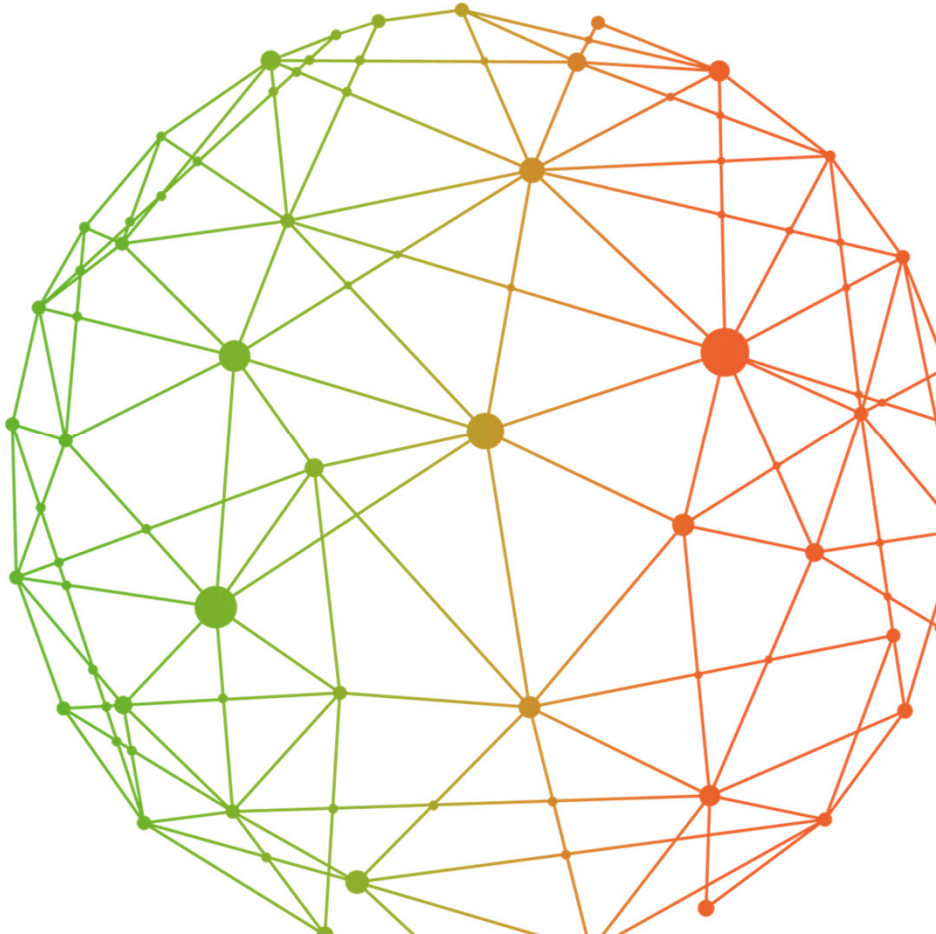
Achieving Trust in the Global Data Economy and Japan

Business impact of data spaces: What economical value data spaces unfold

Data Spaces Symposium 2025



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Contents

1. International Mutual Recognition

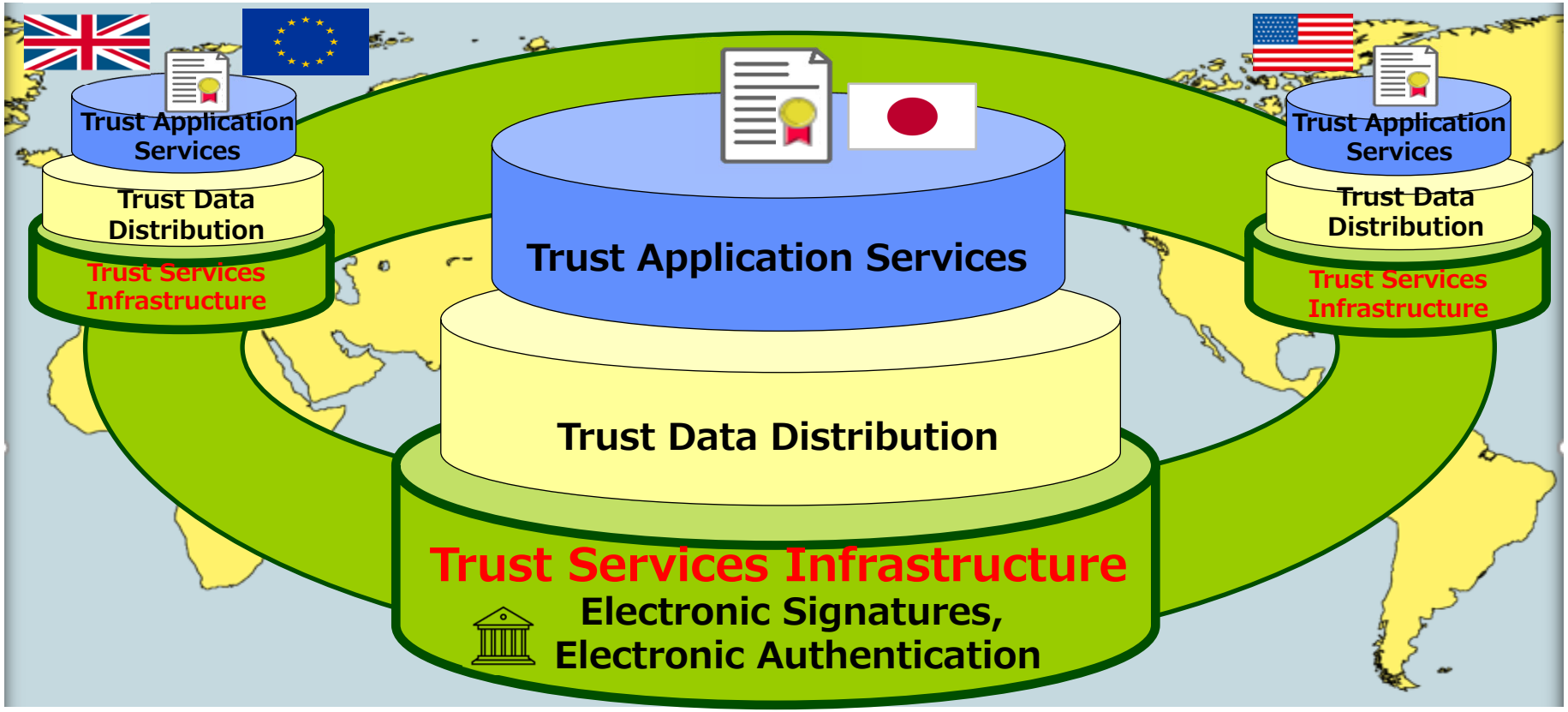
- **Declaration of DFFT**
  - **Summary of Late Prime Minister Abe's 2019 speech at Davos**

- **Start a forum for discussion focused on data governance, under the roof of the Organization for Economic Cooperation and Development (OECD)**
- **Establish a system to implement DFFT (Data Free Flow with Trust), which will be the most important issue for the new economy driving the 4th industrial revolution and Society5.0**
- **Create a forum for discussion among the US, EU, Japan, India, and the African countries that are making great developments, and share their successes along with the efforts of other countries**

Source: https://www.kantei.go.jp/jp/98_abe/statement/2019/0123wef.html

1. International Mutual Recognition

- DFFT is realized with Three-Layered Architecture
  - Trust Application Service Layer: Input/Output of data and use of data
  - Trust Data Distribution Layer: Securely exchange data with entities
  - Trust Service Layer: Trust by preventing tampering and spoofing
- International Mutual Recognition of Trust Service Infrastructure



1. International Mutual Recognition

- **Equal footing of Four Pillars**

	Pillar	EU	UK	US	Japan	India
1	Legal context / Legislation	eIDAS	UK-eIDAS	Executive Order 13526.	Public Certification Service for Individuals law Commercial Registration Law Electronic Signature Act	Information Technology Act
2	Supervision and auditing systems / Accreditation	Two steps of EU Commission, Member States	National body	Federal government	National body	National Regulator - Controller of Certifying Authorities (CCA)
3	Best Practice / Technology Standard	ISO, ETSI	ISO	ISO, NIST	ISO, JIS	CCA / WebTrust
4	Trust Representation / Trust Anchor Chain	LoTL, MS TL	UK TL	FBCA	Government BCA	Root Certificate Authority of India (RCAI)

1. International Mutual Recognition

Jan 2019:	Late Prime Minister Abe declared Data Free Flow of Trust (DFFT)
Nov 2021:	Pilot Project JP team met with DG CONNECT at Brussel and Pilot Project started between EU and JP
Mar 2022:	Pilot Project conducted “Invoice Demonstration” for International Mutual Recognition between EU and JP
Mar 2023:	India Government joined Pilot Project
Apr 2023:	G7 Digital Ministerial Meeting Pilot Project conducted “Carbon Neutral Demonstration” for International Mutual Recognition between EU and JP
Jun 2023:	G20 Global DPI Summit Pilot Project conducted “Invoice Demonstration” for International Mutual Recognition between India, EU and JP
Oct 2024:	Pilot Project published White Paper Comparison Report of International Mutual Recognition for Trust Services Infrastructure

Contents

2. Industrial Data Space in JP

- Keidanren, association of Japan's top 500 companies, proposed "Toward Establishment of Industrial Data Space" on October 15th, 2024

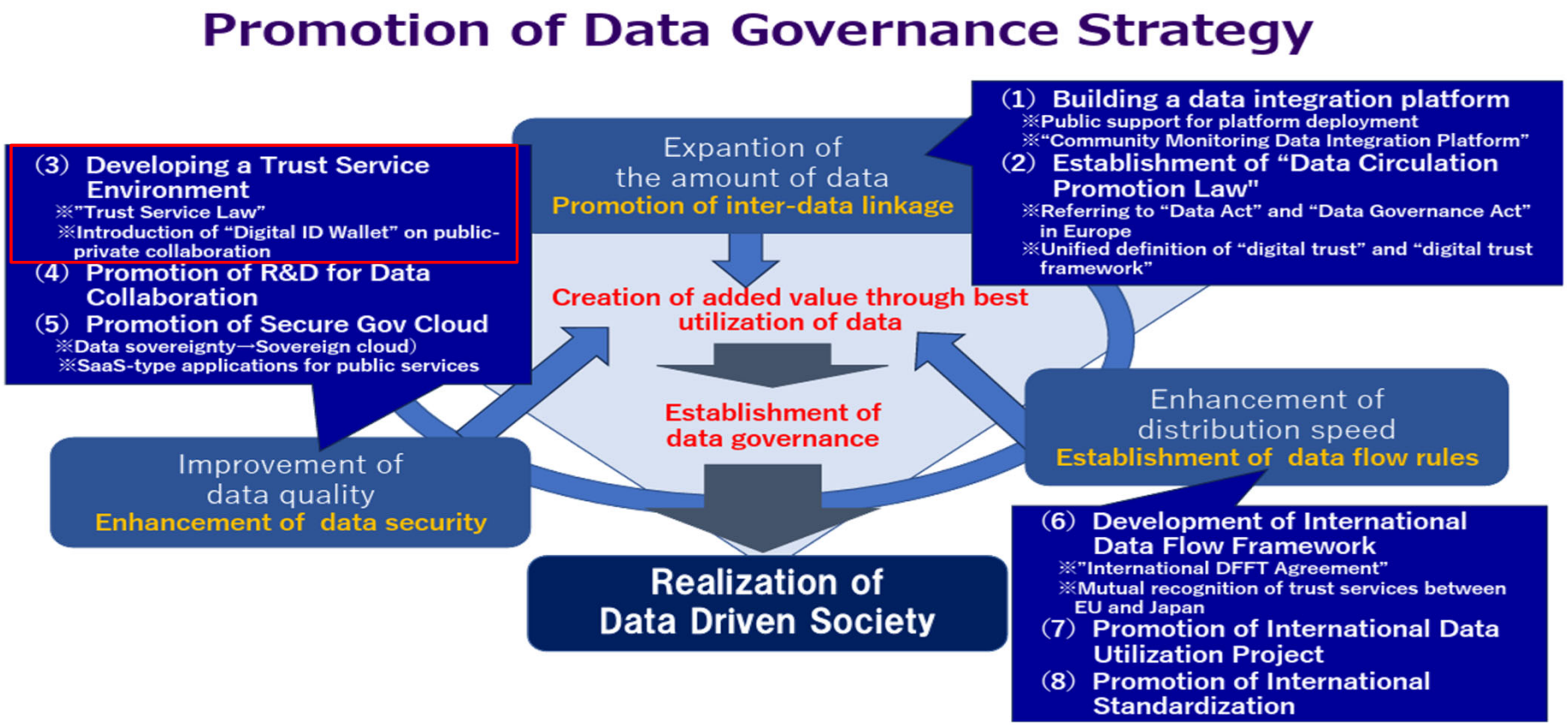
Toshiaki Higashihara, Chairman of Hitachi,

Jun Sawada, Chairman of NTT

- If we delay our response, Japan will be left behind in the environmental field and other areas by the rest of the world
- We will work together with the public and private sectors to ensure that they are implemented quickly and steadily

2. Industrial Data Space in JP

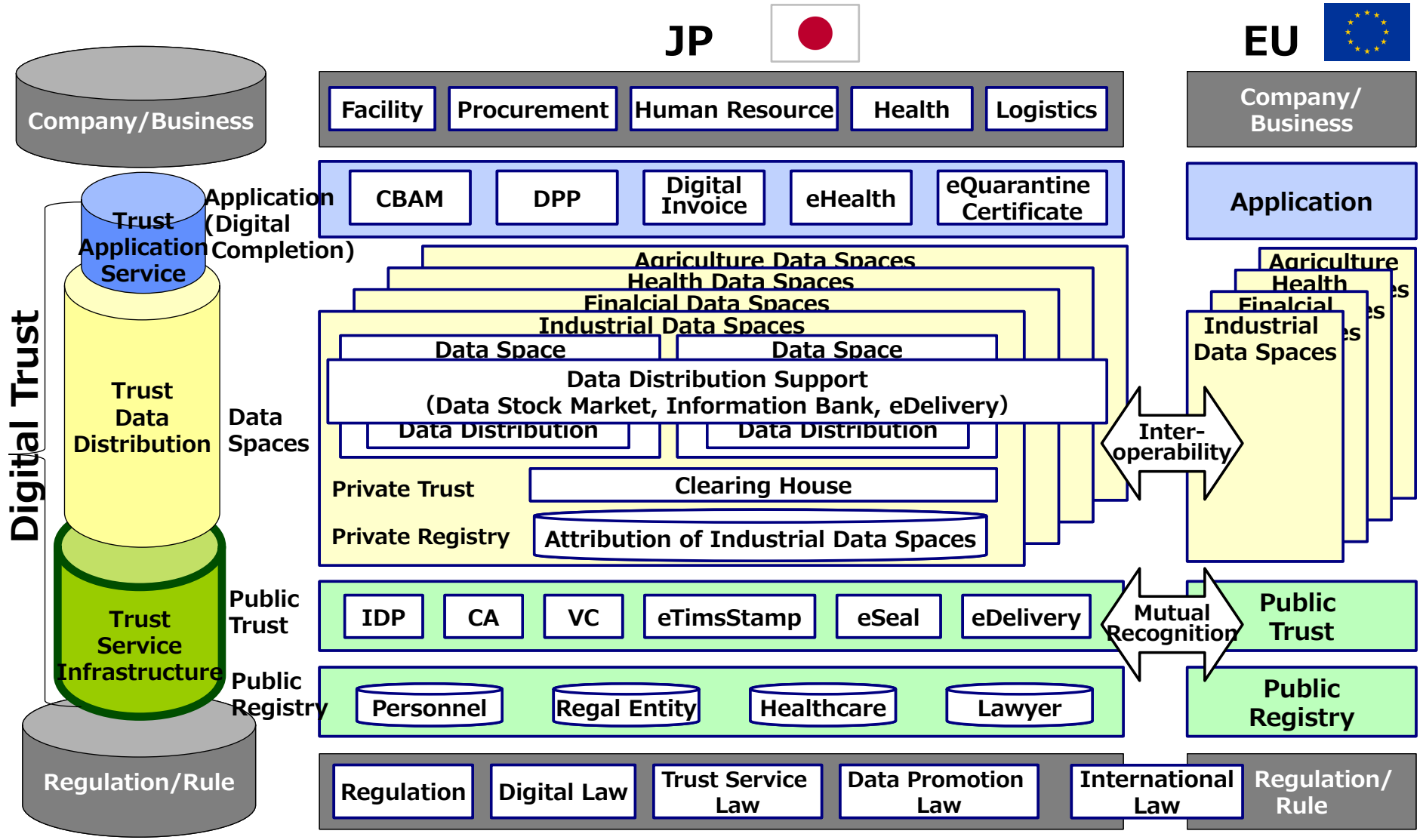
- Three organizations present their recommendations on October 17th, 2024
  - DPFJ: Governance
  - DSA: Data Space
  - JDTF: Trust Service



https://prtimes.jp/main/html/rd/p/000000009.000131931.html

2. Industrial Data Space in JP

- Framework for Digital Completion and Full Automation



2. Industrial Data Space in JP

- Clarify JP Command Post
- Establish Public-Private Council
- Proposal for Industrial Data Space in JP
  - Common Framework
  - Functional and Assurance Requirements
  - International Standardization Strategy
  - Trust Services Regulation
  - Data Distribution Promotion Regulation
- Schedule

	Mar	Apr	May	Jun	Jul
Gov. event		▲Liberal Democratic Party of Japan for Promotion of Digital Society		▲Cabinet Decision ▲Strategic Plan: Digital Japan 2025	
Proposal	Formulation	Improvement			

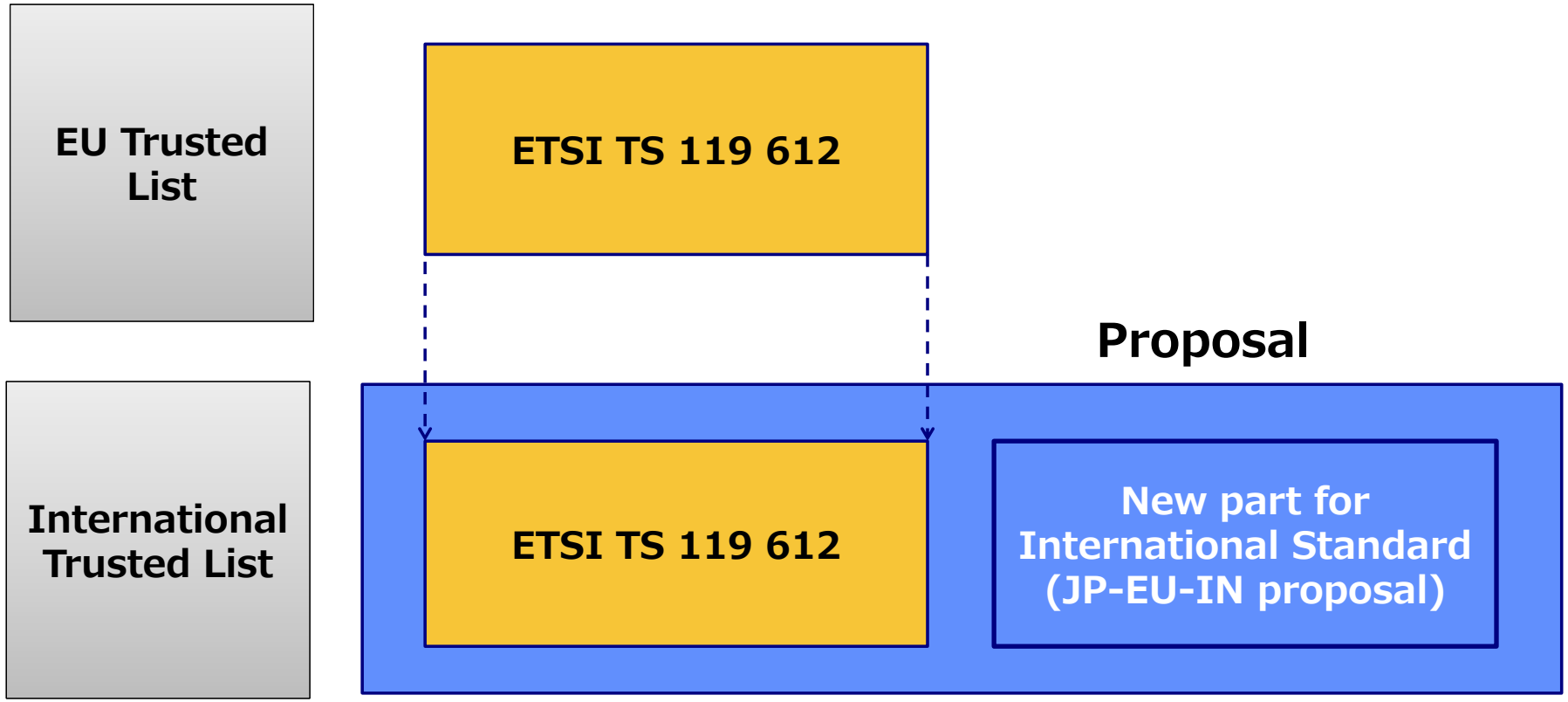
- Action
  - Short-term strategy
  - Public and Private Sector Working Together
  - Maximize Pilot Project Know-How of International Mutual Recognition

Contents

1. International Mutual Recognition
2. Industrial Data Space in JP
3. International Standardization
4. Future Development

3. International Standardization

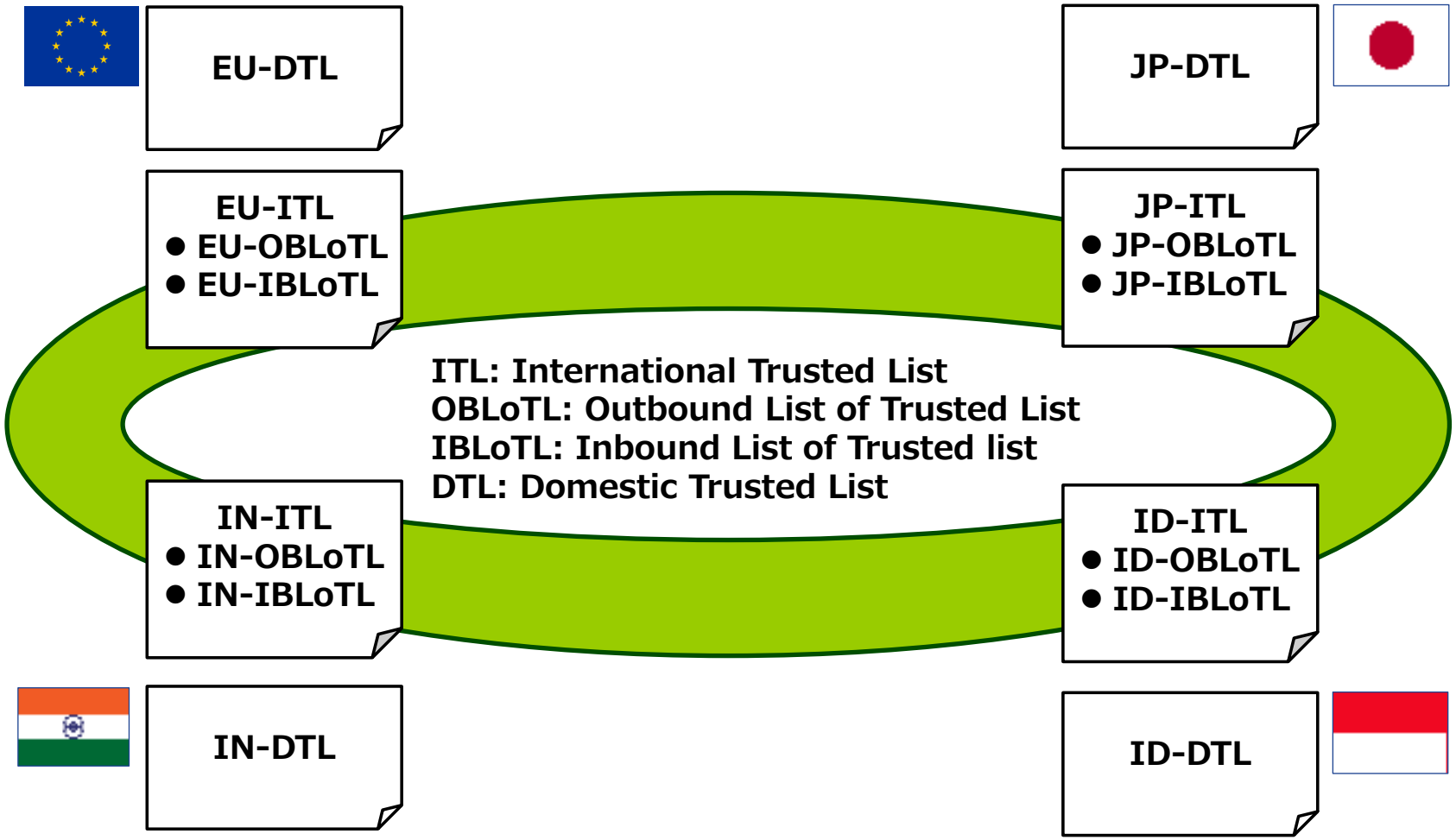
- Scope of Proposal
  - International Trusted List among countries, extending the architecture, structure and format of EU Trusted List of ETSI TS 119 612



3. International Standardization

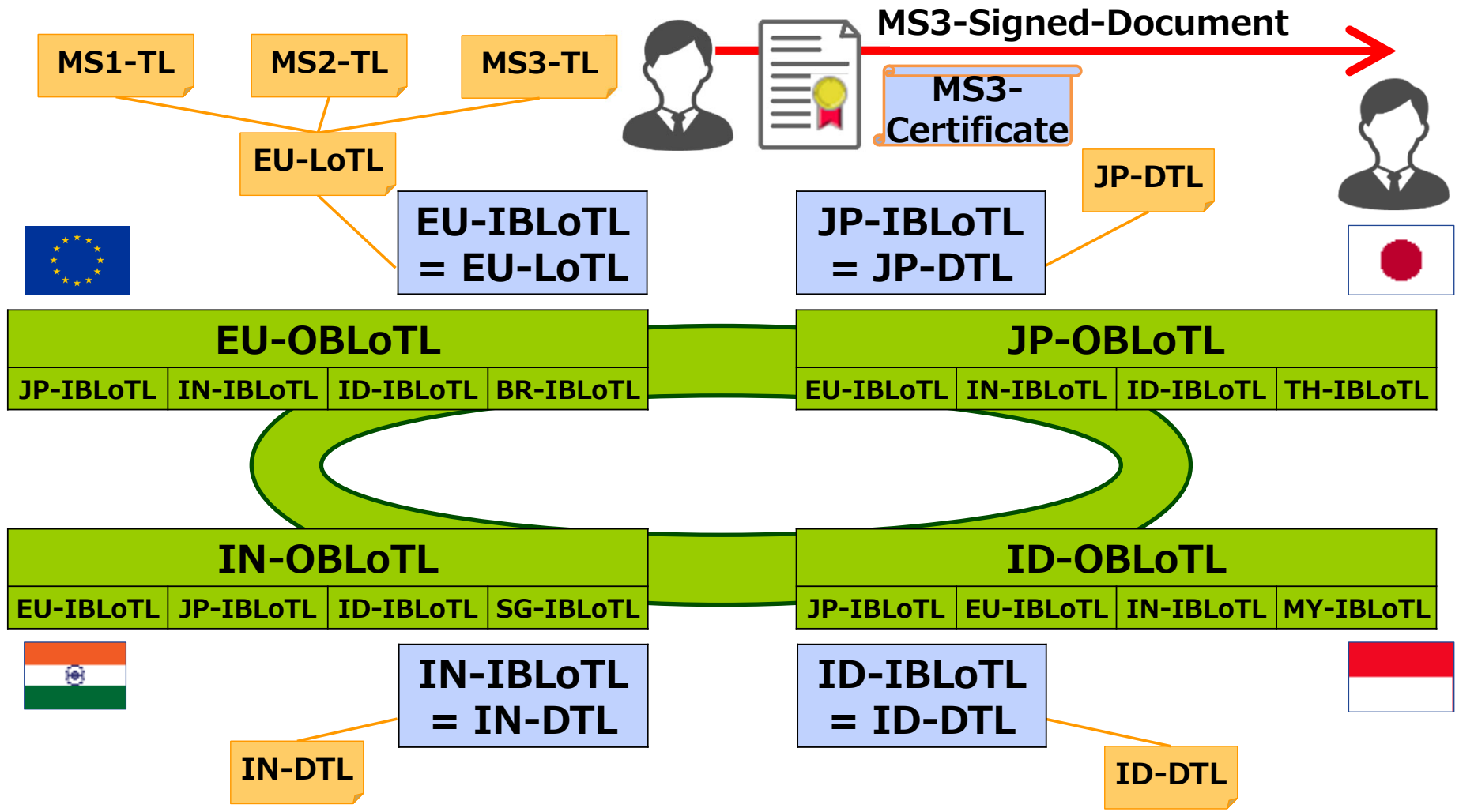
●Outline of Proposal

●ITL, OBLoTL, IBLoTL, and DTL for each country/region



3. International Standardization

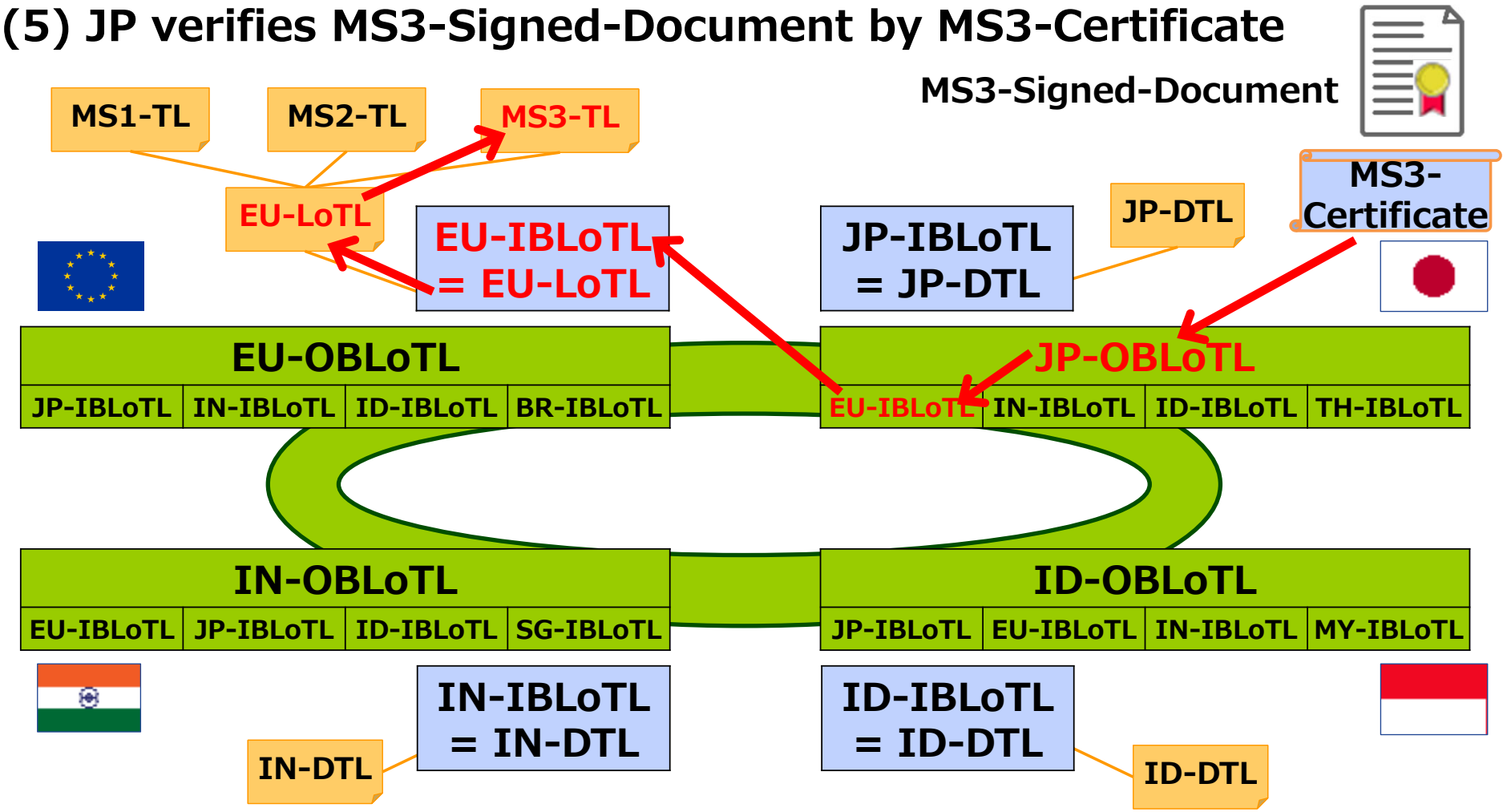
(1) MS3 signs Document by MS3-Certificate
(2) MS3 sends MS3-Signed-Document and MS3-Certificate to JP



Red letters are URLs and entities used for International Mutual Recognition

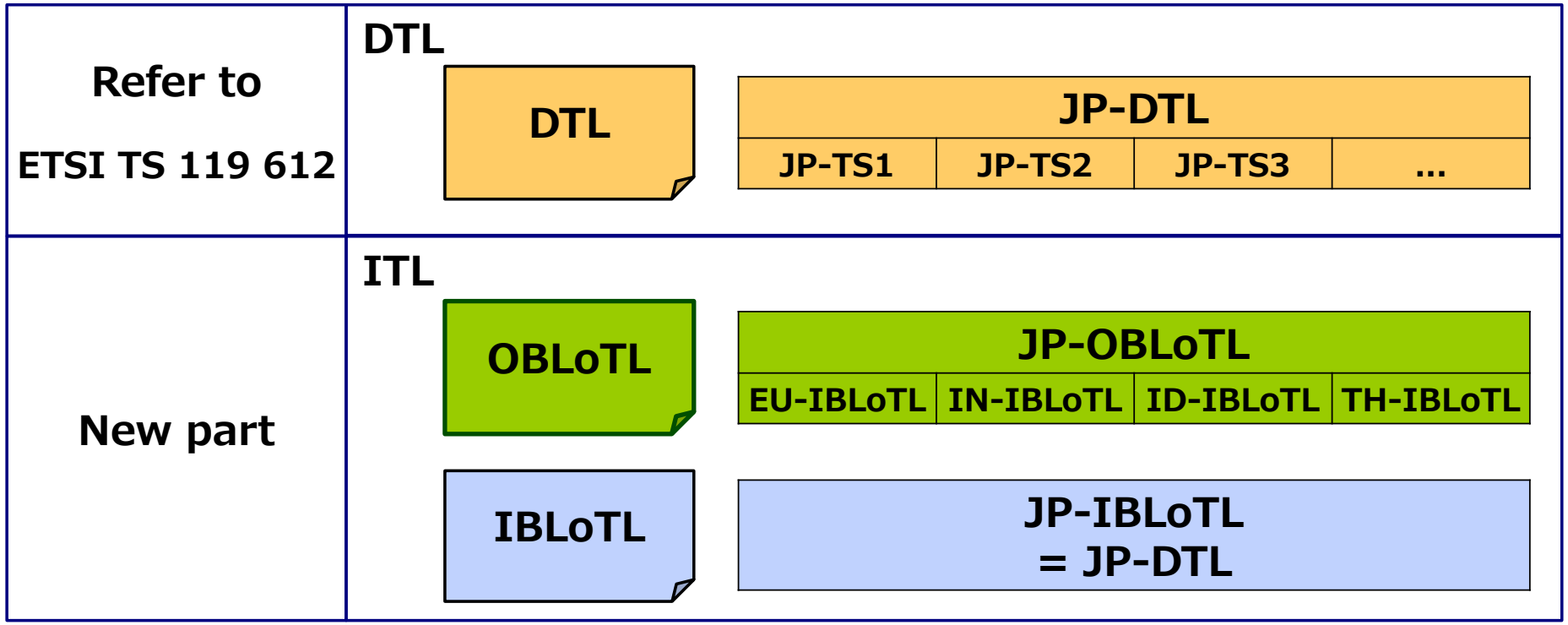
3. International Standardization

(3) JP receives MS3-Signed-Document and MS3-Certificate
(4) JP verifies MS3-Certificate by Trust Chain through
JP-OBLoTL -> EU-IBLoTL -> EU-LoTL -> MS3-TL
(5) JP verifies MS3-Signed-Document by MS3-Certificate



3. International Standardization

- Structure of ITL, OBLoTL, IBLoTL, and DTL
  - Table example of JP



DTL: Domestic Trusted List
ITL: International Trusted List
OBLoTL: Outbound List of Trusted List
IBLoTL: Inbound List of Trusted list
TS: Trust Service

Contents

1. International Mutual Recognition
2. Industrial Data Space in JP
3. International Standardization
4. Future Deployment

4. Future Deployment

- **Realize International Mutual Recognition as Trust Service Infrastructure**

- **Utilize International Mutual Recognition to create Trust Environment for Industrial Data Space**

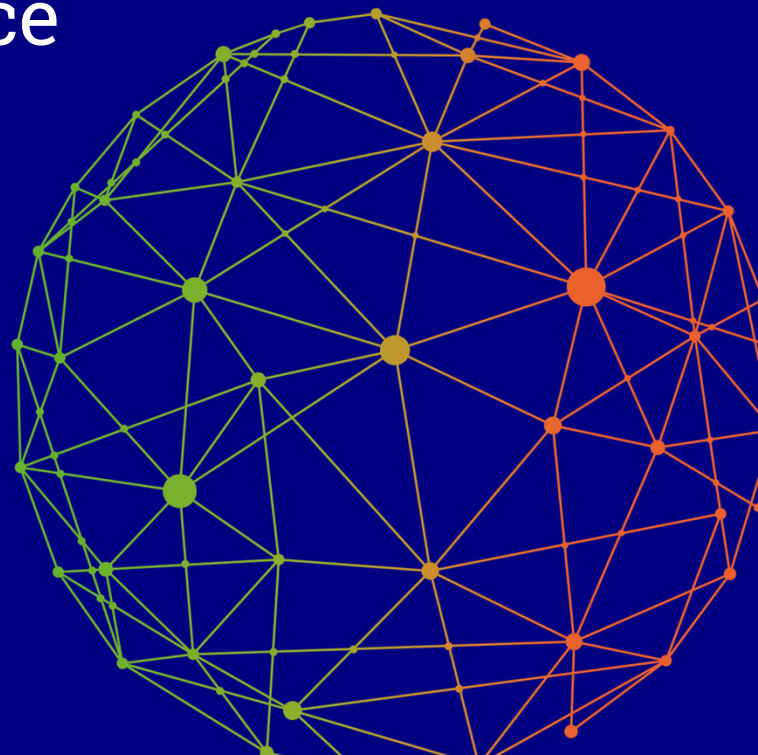
- **Establish International Standardization for Global Value Chain**

- **Expand to G7, G20, and Global South**

Data Spaces Symposium

Intro keynote | Is there room for bilateral data governance in a multilateral reality? Challenges and opportunities of shaping data governance in bi-, pluri- and multilateral fora

Muhammadou M.O. Kah



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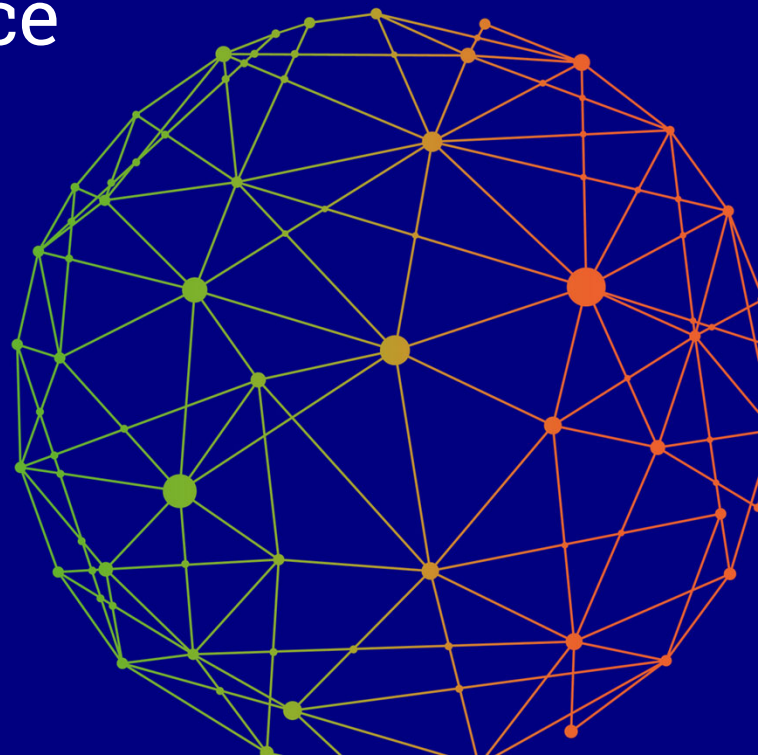
Data Spaces Symposium

Panel discussion | Is there room for bilateral data governance in a multilateral reality? Challenges and opportunities of shaping data governance in bi-, pluri- and multilateral fora

Runa Angus, Adele Johanson, Christian Reimsbach-Kounatze, Muhammadou M.O. Kah & Daniel Spoiala



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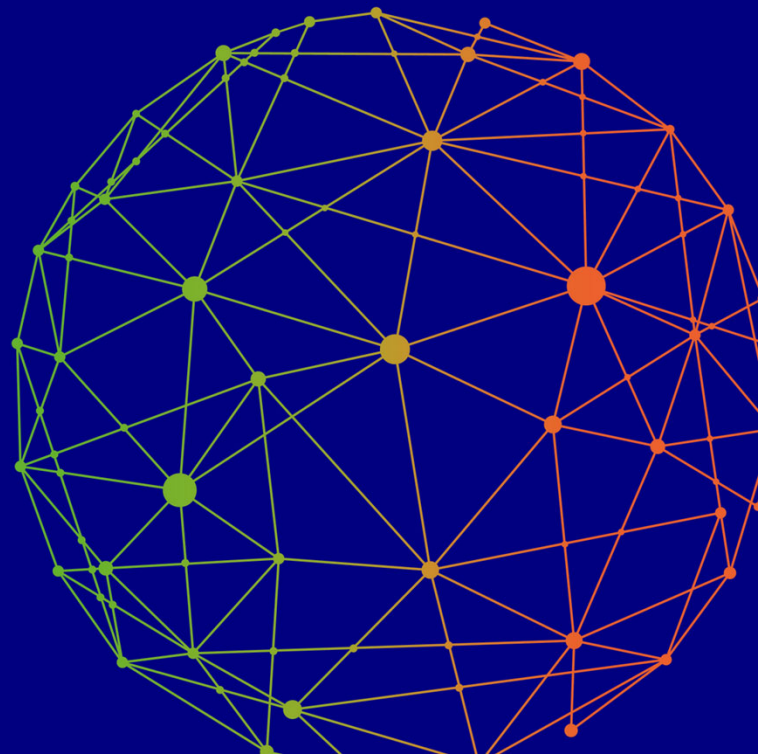
Data Spaces Symposium

Closing address

Lars Nagel



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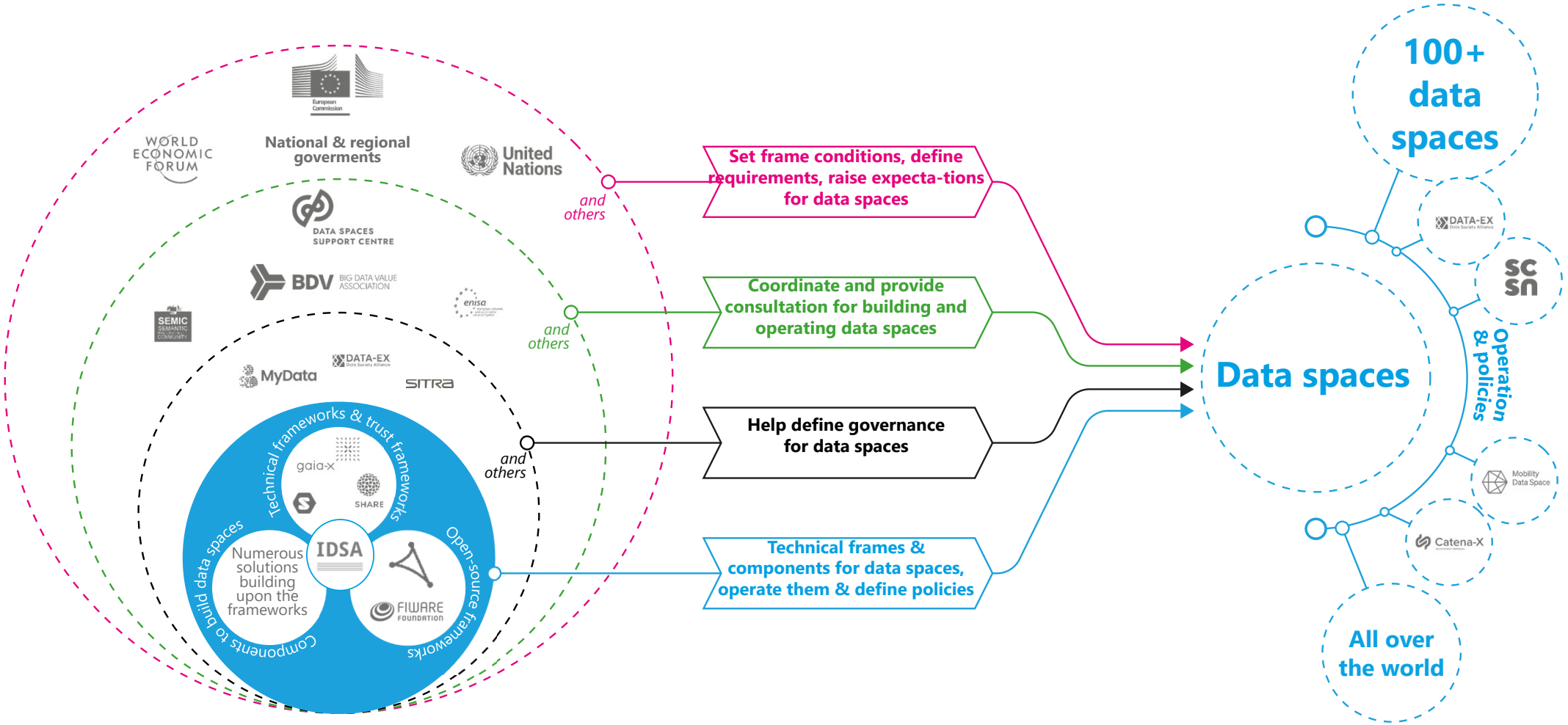
“It takes a village”
to make data spaces a success

It takes a village

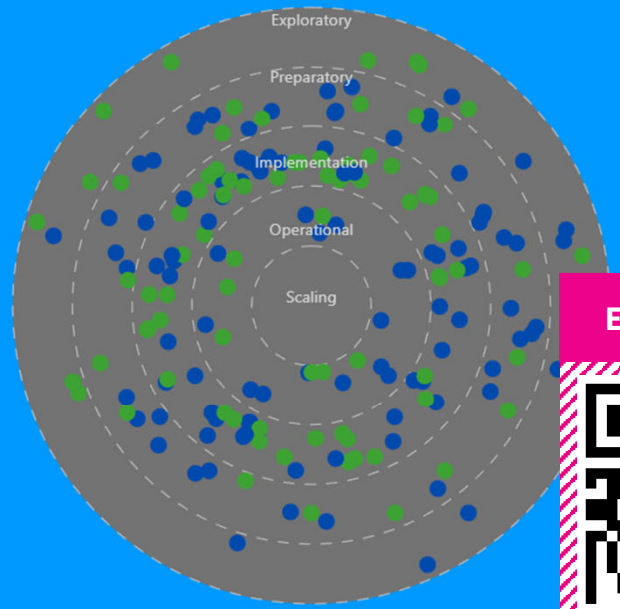
To make data spaces a success

INTERNATIONAL DATA SPACES ASSOCIATION



The Data Spaces Radar

Chart View



Data Spaces Count: 189

Explore the Radar

Filter results:

Sectors: Alle

Development Stage: Alle

Geographical Focus: Alle

Countries: Alle

Connectors Used: Alle

Starting Date: 01.01.2018 – 03.06.2024

Source of Funding: Alle

Type: Data Space | Use Case

Reference Architecture: Alle

Part of DSSC's Community of Practic

Title of presentation

Radar View | Chart View

Radar Overview

New Listings

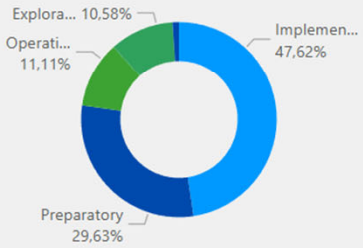
Entries added in the last **6** months

11 Entries

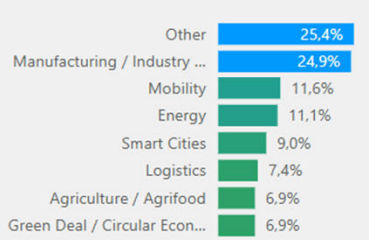
- Agriculture AI Data Space (agriAI)
- COOPERANTS
- Danger spots in traffic
- Data Space Traffic Measurements
- Intelligent Urban Ecosystem for Human centric...
- Living Digital Twin
- Machinery-X

Radar Growth

Development Stage



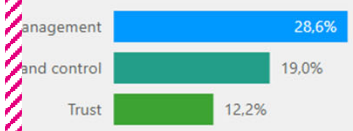
Sectors



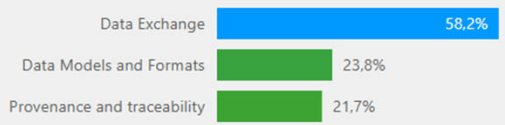
Building Blocks

For more information regarding Data Spaces Building Blocks, visit the Data Spaces Support Centre

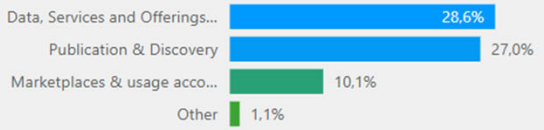
Data Sovereignty



Data Interoperability

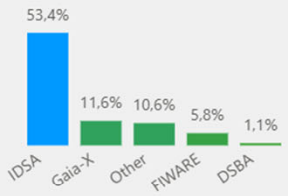


Data Value Creation

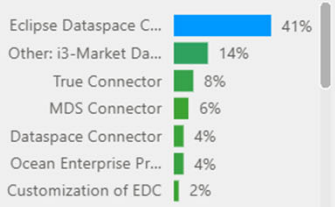


Key Highlights

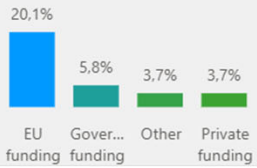
Reference Architecture



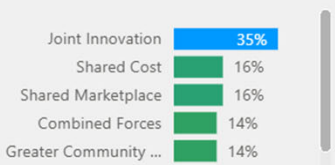
Data Space Connector



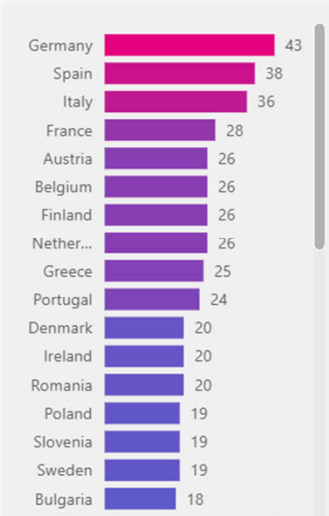
Source of Funding

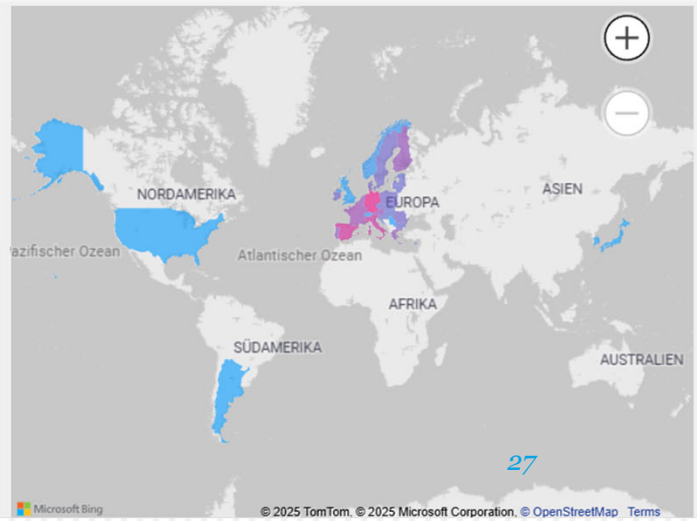


Business Case Pattern



Map View





Thorough ground for data spaces

IDSA Manifesto for Data Spaces

INTERNATIONAL DATA SPACES ASSOCIATION

10 Principles of Trusted Data Sharing in data spaces

+

ISO/IEC CD 20151
Dataspaces concepts and characteristics

+

Dataspace Protocol

1. **Dataspaces enable Trusted Data Sharing**
   "Dataspaces are a mechanism of trust"
2. **You shall have full autonomy in deciding with whom you share data with and under what conditions**
   "Your data, your choice"
3. **You shall be responsible for ensuring that you are free to act and can act autonomously**
   "With great responsibility comes great power"
4. **All participants shall be treated equitably in their rights and obligations**
   Dataspaces are decentralized & neutral
5. **Data Sharing is executed on seperate peer-to-peer channels**
   "Data does not flow through the Dataspace"
6. **Dataspaces shall be based on open standards**
   "unity in standards, freedom in implementation"
7. **Dataspaces shall be infrastructure agnostic**
   "there is no single platform to rule them all"
8. **Dataspaces are building blocks for Data Ecosystems**
   "Dataspaces are not data ecosystems"
9. **Dataspaces shall be business model agnostic**
   "the opportunity is boundless"
10. **You shall honor your data contracts and its associated policies and verify adherence by others**
    "act in good faith, but verify"

Makers create, Users elevate

Empowering collaboration

INTERNATIONAL DATA SPACES ASSOCIATION

Data Space Users participate in data spaces with the goal of finding the data that they need for their business, efficiency or innovation, and also to offer the data they hold for others to re-use, too, if viable.

Data Space Makers participate in data spaces with the goal of providing services and tools to the others. Among them are the data space governing authorities, operators, the service and cloud providers, the advisory services.

Introducing the IDSA User Group

Your fast track to data space adoption

INTERNATIONAL DATA SPACES ASSOCIATION

- **Exclusive Briefs & Insights** → Stay ahead with expert knowledge.
- **Practical Learning** → Discover benefits & learn best practices.
- **Solution Discovery** → Find the right tools & services faster.
- **Peer Networking** → Connect with other users & share experiences.
- **Have your voice heard** → bring your new requirements to IDSA

Subscribe to the User Group

*Best suited for **data space users** looking for business opportunities, best practices and resources to make the most of participating in data spaces*

Includes access to the User Group only

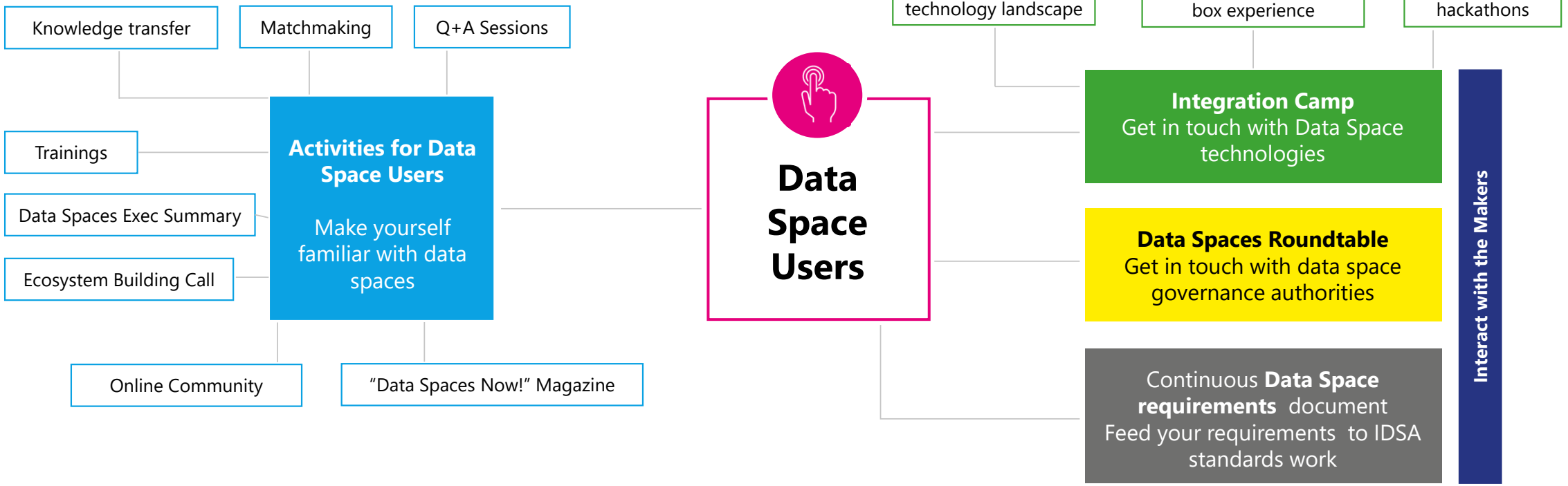
Plans start at €1,800 per year

IDSA Data Space User Group

Experience data spaces and make yourself ready for it

INTERNATIONAL DATA SPACES ASSOCIATION

1. Make yourself familiar with available technologies and components
2. Make your hands dirty with testing it
3. Test interoperability and features



Contribute to a growing community of Users and Makers

Data Spaces Symposium

20:30

Networking Dinner

Join us for great food and even better conversations!