

EU-Japan Digital Partnership Webinar - Connecting the EU, Japan and the World -

Manufacturing Data Space activity in Japan

2024.3.12

RRI (Robot Revolution & Industrial IoT Initiative)

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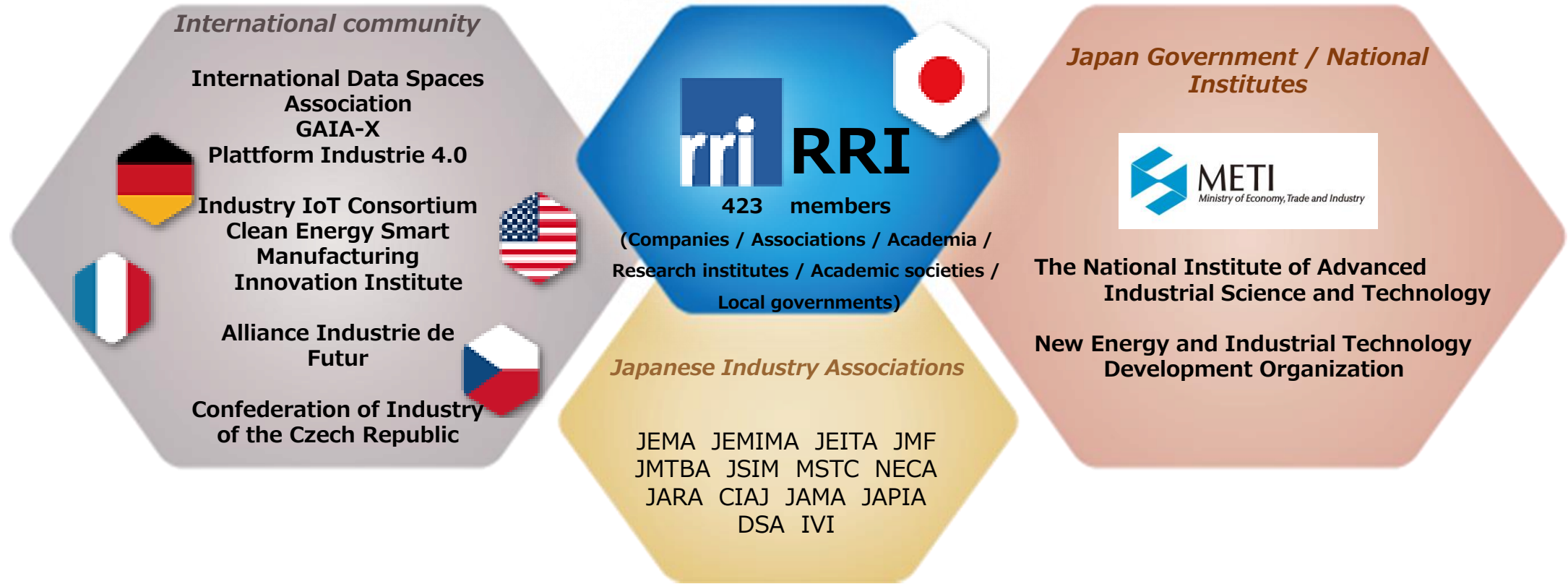


<https://www.jmfrri.gr.jp/>

RRI: Robot Revolution & Industrial IoT Initiative



Working with Partners



Organization name of Japanese Industrial Association

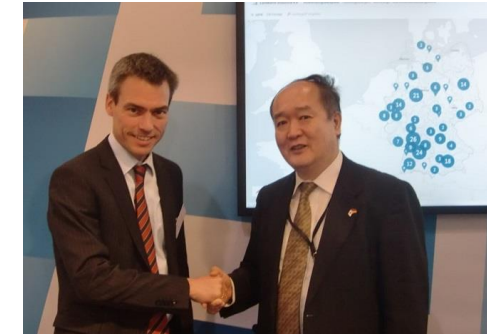
JEMA: The Japan Electrical Manufacturers' Association, JEMIMA: Japan Electric Measuring Instruments Manufacturers' Association, JEITA: Japan Electronics and Information Technology Industries Association, JMF: The Japan Machinery Federation, JMTBA: Japan Machine Tool Builders' Association, JSIM: The Japan Society of Industrial Machinery Manufacturers, MSTC: Manufacturing Science and Technology Center, NECA: Nippon Electric Control Equipment Industries Association, JARA: Japan Robot Association, CIAJ: Communications and Information Network Association of Japan, JAMA: Japan Automobile Manufacturers Association, JAPIA: Japan Auto Parts Industries Association, DSA: Data Society Alliance, IVI: Industrial Value Chain Initiative

Collaboration with Germany

GER Industrie 4.0

RRI established

Joint statement for the collaboration was announced by **METI and BMWi**.
Joint statement by **RRI and PI4.0**.
Expert groups formed. Collaborative activity started.



RRI delegation #1 to Germany

RRI delegation #2 to GER
GER delegation to JPN

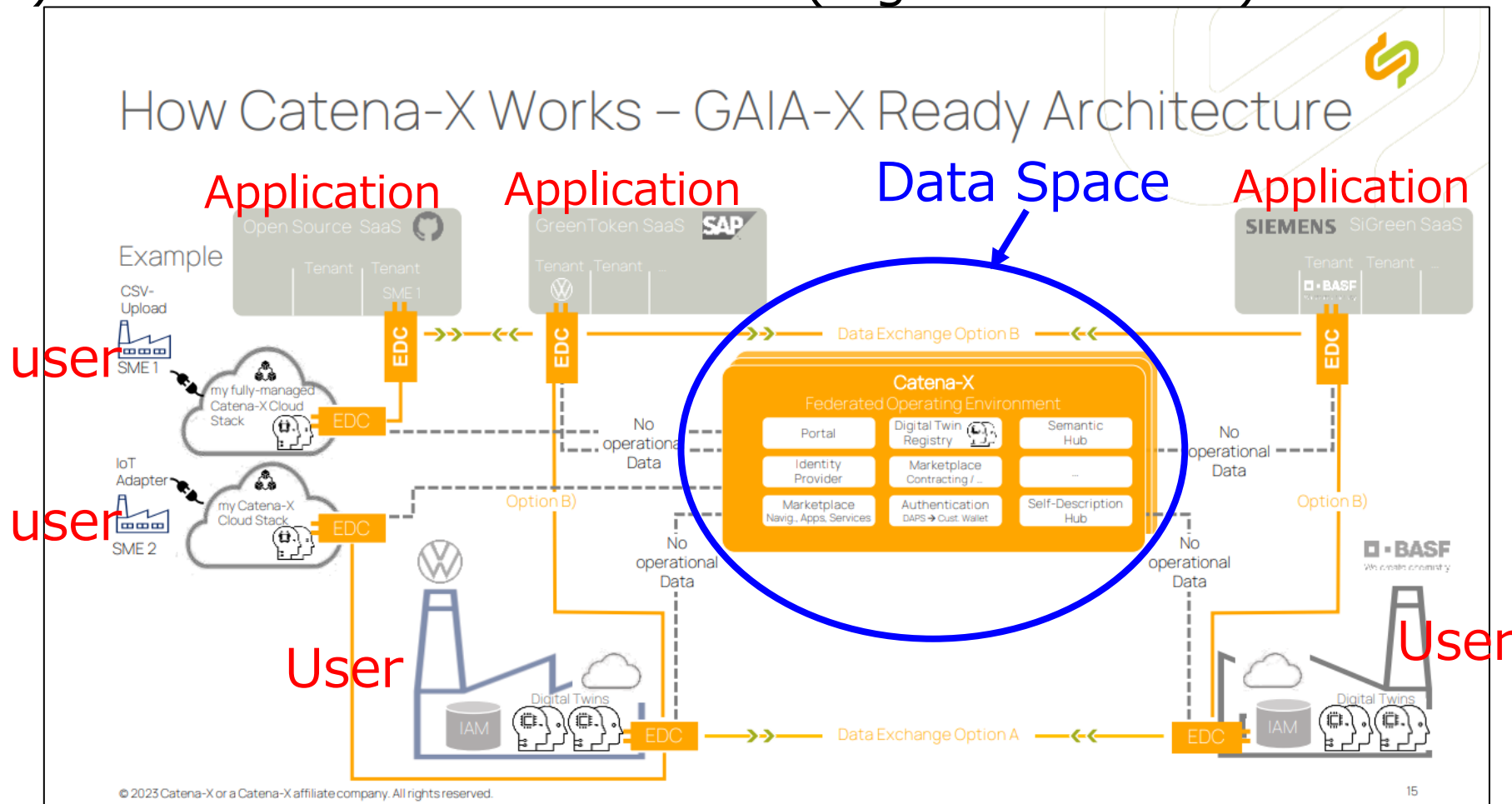
METI announced “Connected Industries”
Hannover Declaration signed between
BMW and METI for the cooperation in
the field of the 4th Industrial Revolution.

RRI International Symposium 2022



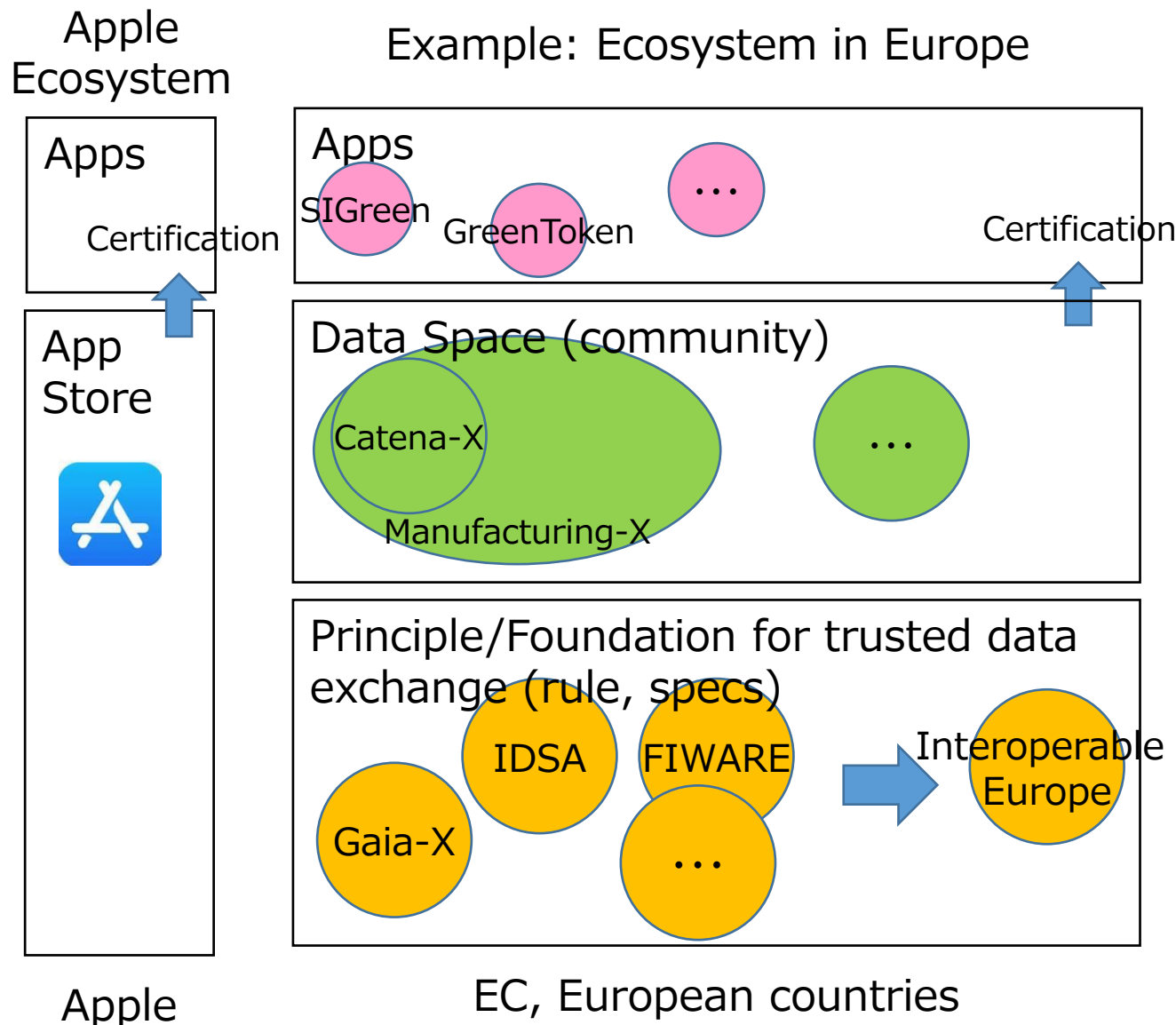
Data Space: typical misunderstanding

- Data Space is either “Data Repository”, nor “Data Storage”.
- Data Space is the community of data users (providers, consumers, etc.) under the common interest (e.g. automotive).





European approach: foundation and Data Space



- Growing movement around the world to create new businesses and solve problems by trusted data exchange.
- Issues that cannot be solved by individual companies alone, such as carbon neutrality and circular economy.
- Open and trusted business ecosystem is the key. (Structure, requirements, interfaces)
- Data sovereignty and decentralized management.

RRI's Manufacturing Data Space Action Group (AG4)

Society 5.0

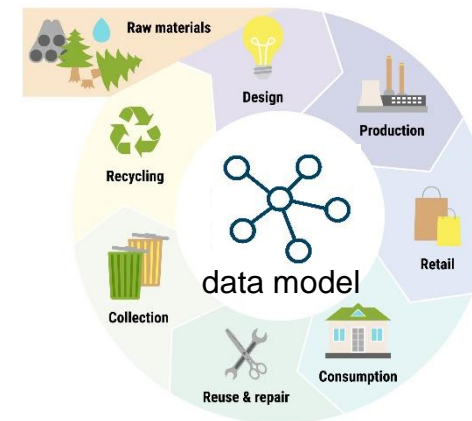
- Balance between social issues and economic development.
- Multiple CPSs Connected.
- Manufacturing Data Spaces as an enabler for Society5.0.

TF1: Establish common understanding of Manufacturing data Spaces in Japan

TF2: Use Cases and core feature derived from use case study

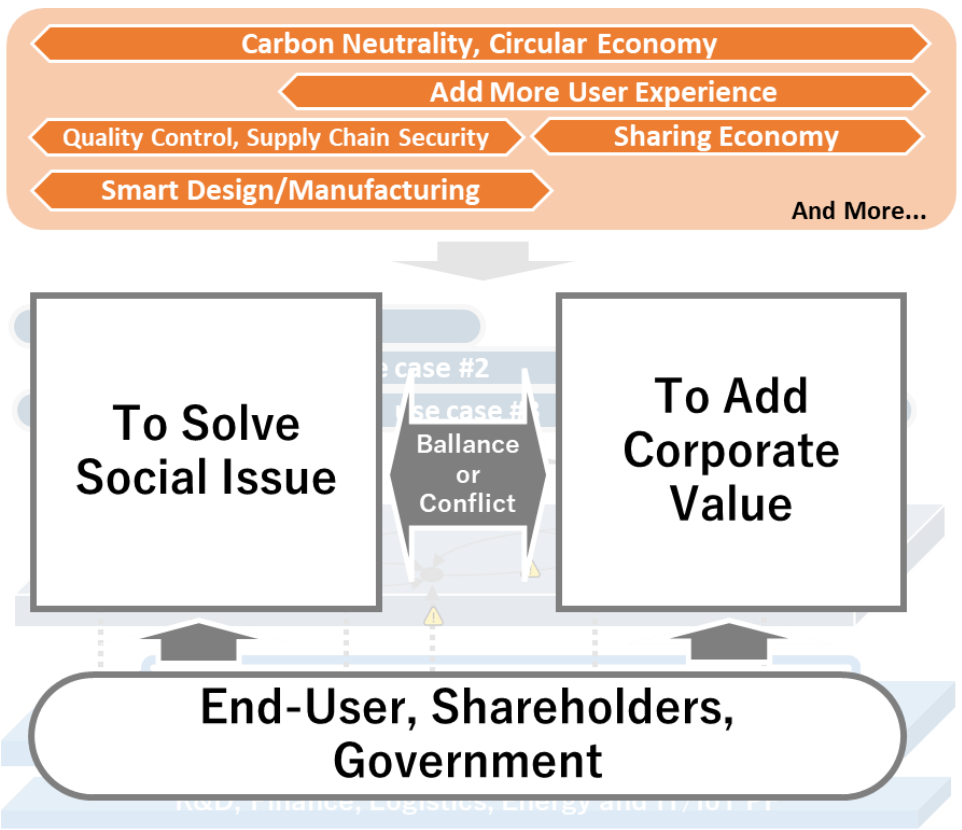
TF3: Engineering innovation and revolution

TF4: Communication & disseminating Data Space concept

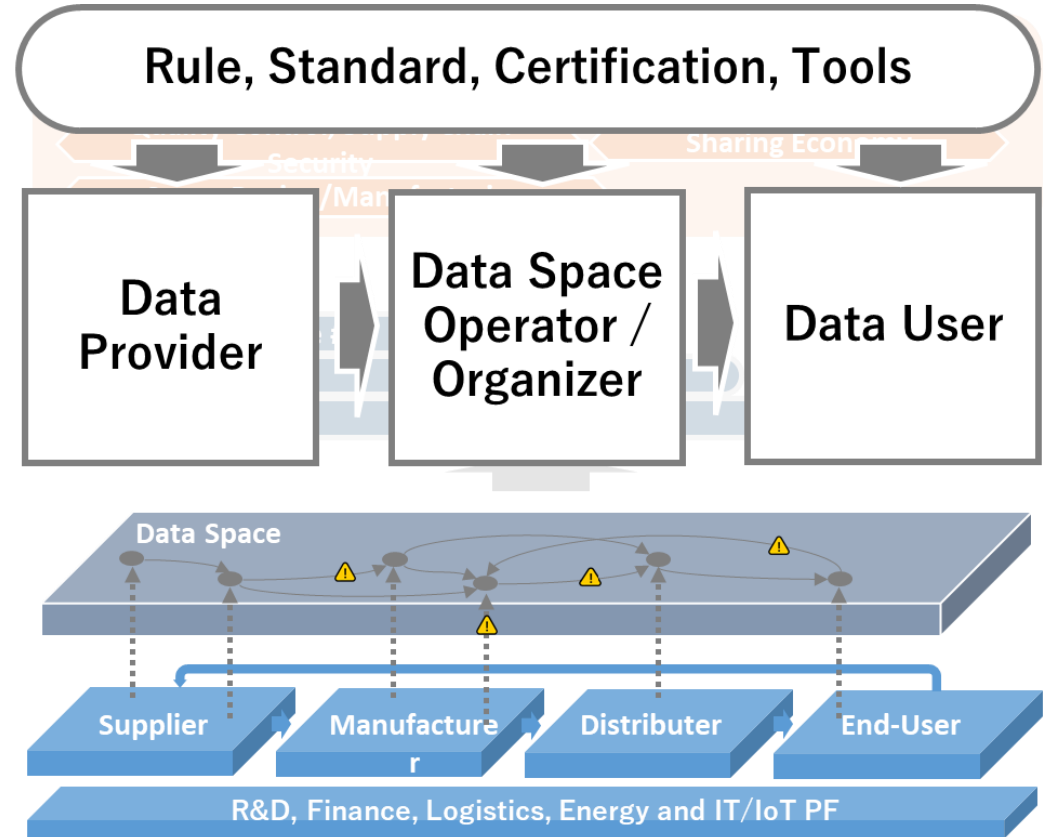


Various aspects from manufacturing companies

Theme1: Motivation to join Data Space



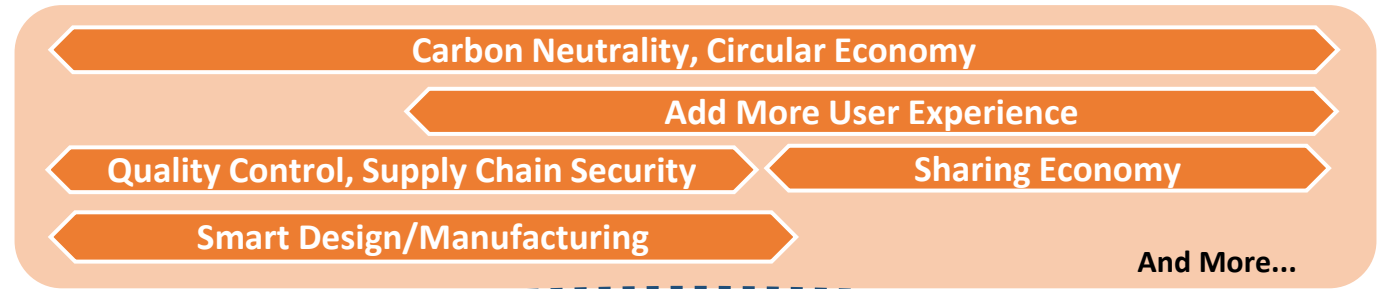
Theme2: Concern to join Data Space





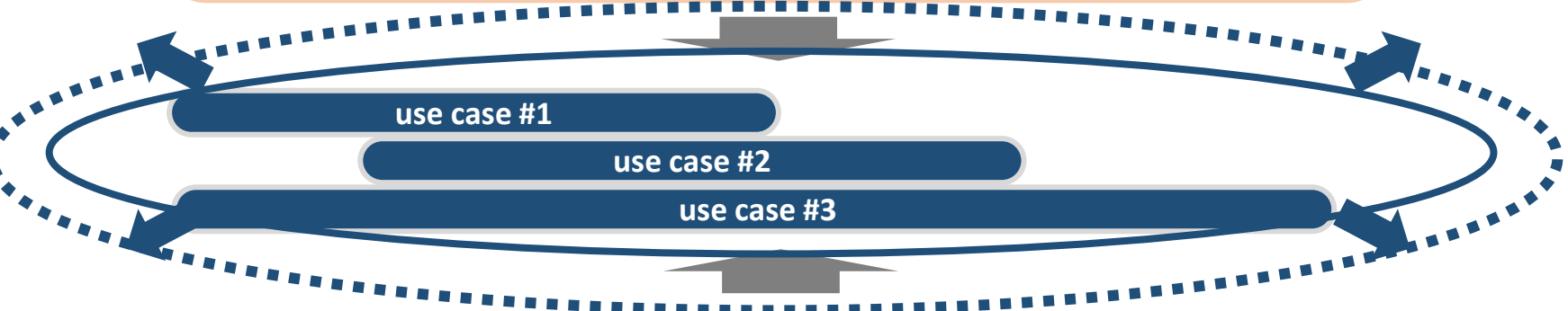
Theme3: The future shape of the manufacturing industry

Motivation to join Data Space

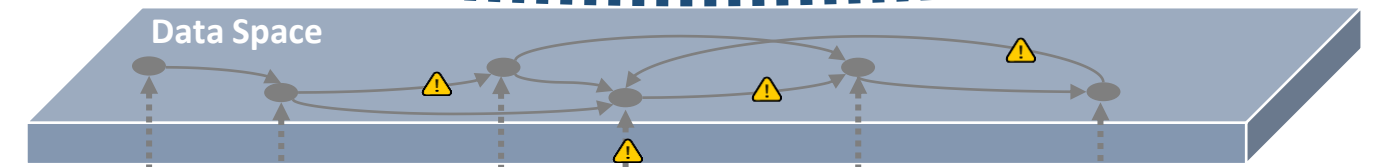


Theme3

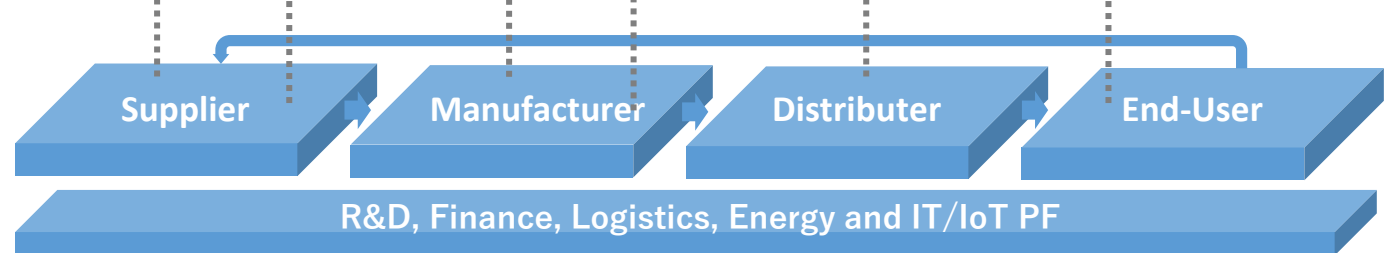
Future Manufacturing driven by Data Space



Concern to join Data Space



Stakeholders



International collaboration on Manufacturing Data Space



Motivation & Big Picture

International Manufacturing-X (IM-X): Make Data Work

IM-X will implement a federated, decentralized and collaborative data ecosystem for smart manufacturing. Open, global and cross-sectoral.

Australia, Austria, Canada, European Commission, France, Germany, Italy, Japan, Netherlands, Spain, South Korea, USA

