DATA SPACES SUPPORT CENTRE

DSSC Insight Series

Building synergies: lessons from Manufacturing & Green Deal data spaces

22 May 2025 | 16:00 CEST | online

Gianfranco Cecconi
DSSC

Joel Sepúlveda
Innovalia

Ann Runnel
Reverse Resources

Carmen Polcaro
Innovalia

Funded by the European Union

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

DATA SPACES SUPPORT CENTRE

- Intro: Gianfranco Cecconi, Data Spaces Support Centre
- SMARTENANCE: Carmen Polcaro, Innovalia
- SAGE (Introduction): Mark Dietrich, EGI Foundation
- SAGE (NetZero Manufacturing use case): Joel Sepulveda, Innovalia
- SAGE (Circular Textile use case): Ann Runnel, Reverse Resources
- Q&A (You can ask questions in the chat!)

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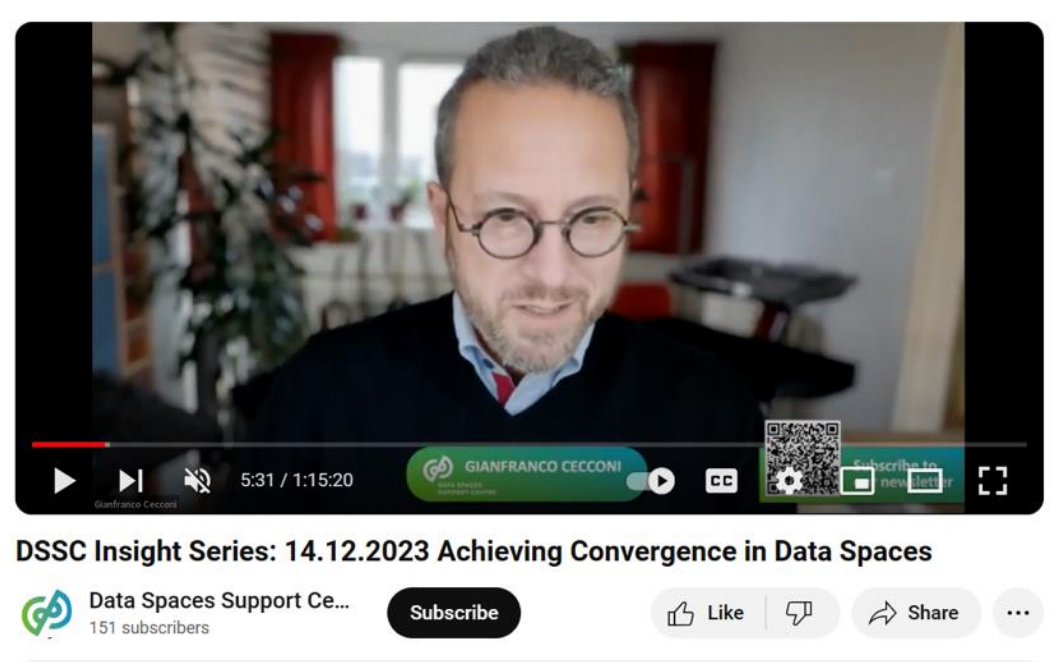
DATA SPACES SUPPORT CENTRE



This webinar is recorded. Did you know? Previous DSSC insight series recordings are available on our Youtube channel. Videos from our annual event are also available!

Check out our YouTube channel here

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Stay up to date with Data Spaces Support Centre and the European Union's programme for common European data spaces.

Subscribe to the DSSC Newsletter!

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SM4RTENANCE

DSSC Insight Series - May 22nd, 2025
Building synergies: lessons from manufacturing and Green Deal data spaces

Carmen Polcaro (INNOVALIA)

innovalia ASSOCIATION

DFA TRANSFORMING MANUFACTURING TOGETHER

European Commission

EU Economic Spaces

1993

European Single Market

European Economic & industrial transformation

2023

European Common Data Spaces

Industrial & public administration digital transformation. European data economy pillar

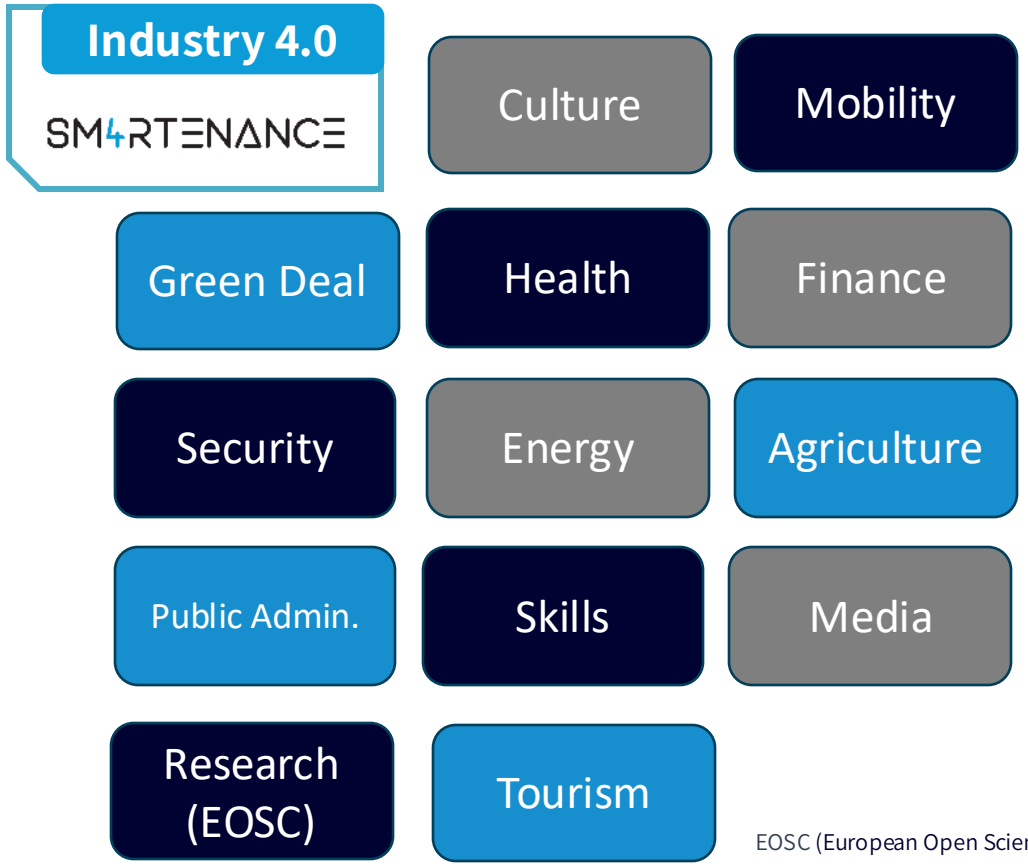
2030

European Net-Zero Spaces

Industrial green transformation

EU Data Strategy

14 European Common Data Spaces



EOSC (European Open Science Cloud)

Project No: 101123490

Duration: 36 Months

Start Date: 1st October 2023

Consortium: : 42 full partners, 5 associated partners, distributed across 11 EU countries.

Strategic Objective: DIGITAL-2022-CLOUD-AI-03-DS-MANUFACT

Total Budget: 14 M €

EC Contribution: 8M€

Project Website: sm4rtenance.eu

SM4RTENANCE

European Deployment of Smart Manufacturing Asset 4.0 MultilateRal DaTa Sharing SpacEs for an AutoNomous Operation of CollAborative MainteNance and Circular Services

SM4RTENANCE Co-funded by the European Union

Coordinated by

innovalia ASSOCIATION

DAWEX

top-ix WE DO CONNECTIONS

NTT DATA

OTE GROUP OF COMPANIES

SCSN smart connected supplier network

domina data management

FIWARE FOUNDATION

SOVITY

DGS BUILDING THE FUTURE

SQS

TRIMEK METROLOGICAL ENGINEERING

Cefriel POLITECNICO DI MILANO

PRIMA INDUSTRIE

FIDIA

COMAU

Schneider Electric

fill YOUR FUTURE

DATAPIXEL QUALITY CONTROL ENGINEERING

TNO

TXT

core

IJSSEL

UNIMETRIK METROLOGY AND CALIBRATION

ATLANTIS ENGINEERING

SYXIS innovate together

Fraunhofer IOSB

INDUSTRIE 4.0 AUSTRIA

UiO

CERTH CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

AVL

BEMAS

cea

BAI DATA

MADE Competence Center 4.0

AFNeT Services

INTELLIMECH

VDMA

carsa

eit Manufacturing CLC SOUTH

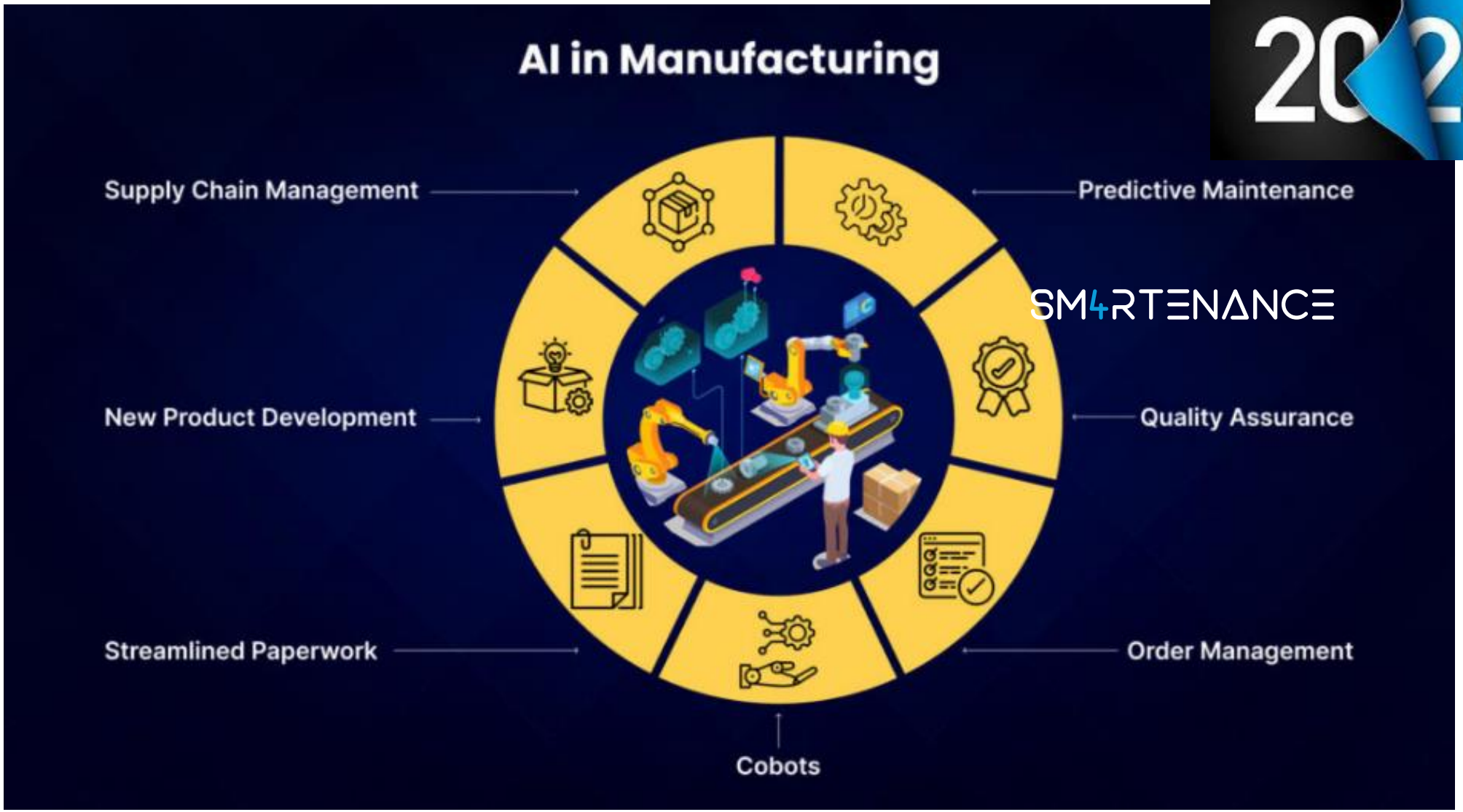
ASSOCIATED PARTNERS

efnms

INTERNATIONAL DATA SPACES ASSOCIATION

VDI

AI MANUFACTURING

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DATA-DRIVEN
TRANSFORMATION

BOOST DATA SHARING

80%

Industrial Data is Never Used

https://www.europarl.europa.eu/news/en/headlines/society/20220331STO26411/boosting-data-sharing-in-the-eu-what-are-the-benefits

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One Data,
One Use

One Partner, One Project

EU Data Space 4.0 – What is It?

*"A **Distributed** System Defined By A **Governance Framework** That Enables **Secure and Trustworthy Data Transactions** Between Participants While Supporting **Trust And Data Sovereignty**. A Data Space Is Implemented By **One or More Infrastructures** and Enables **One or More Use Cases**."*

"***Interoperable Framework***, based on *Common* ***governance*** Principles, Standards, Practices and enabling ***services,*** that enables ***Trusted Data Transactions*** between Participants."

V2.0

DATA SPACES SUPPORT CENTRE

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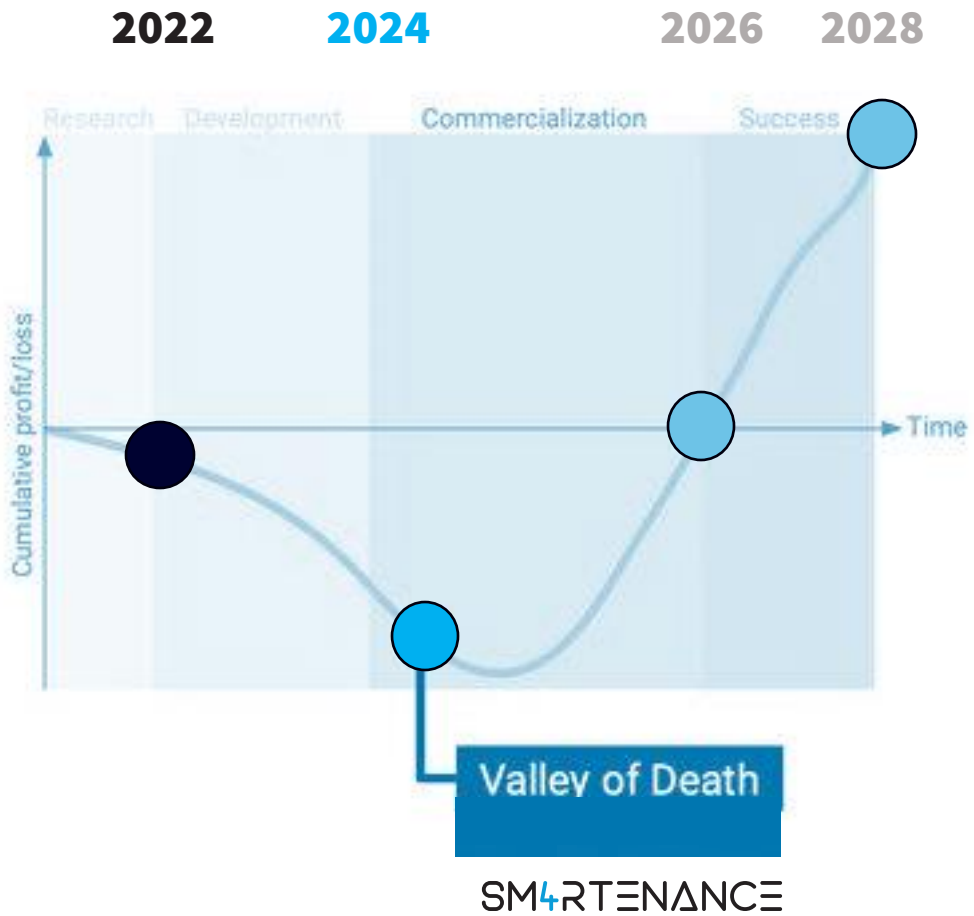
EU Data Space 4.0 – Where we are?



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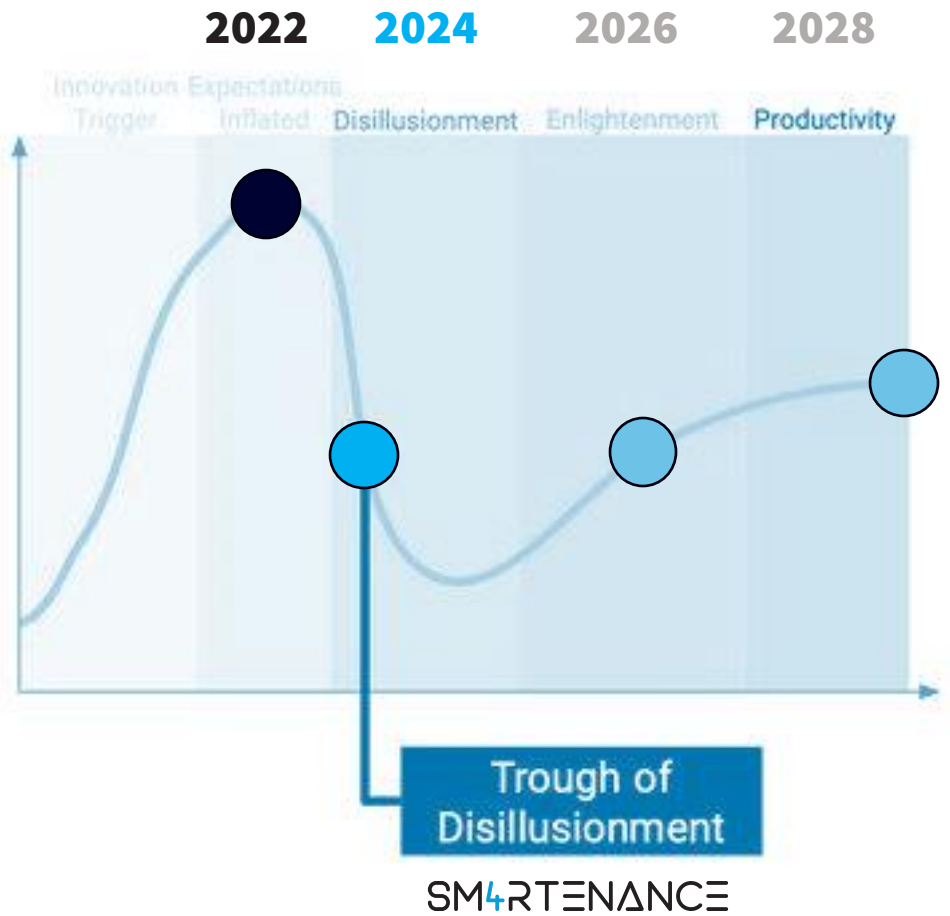
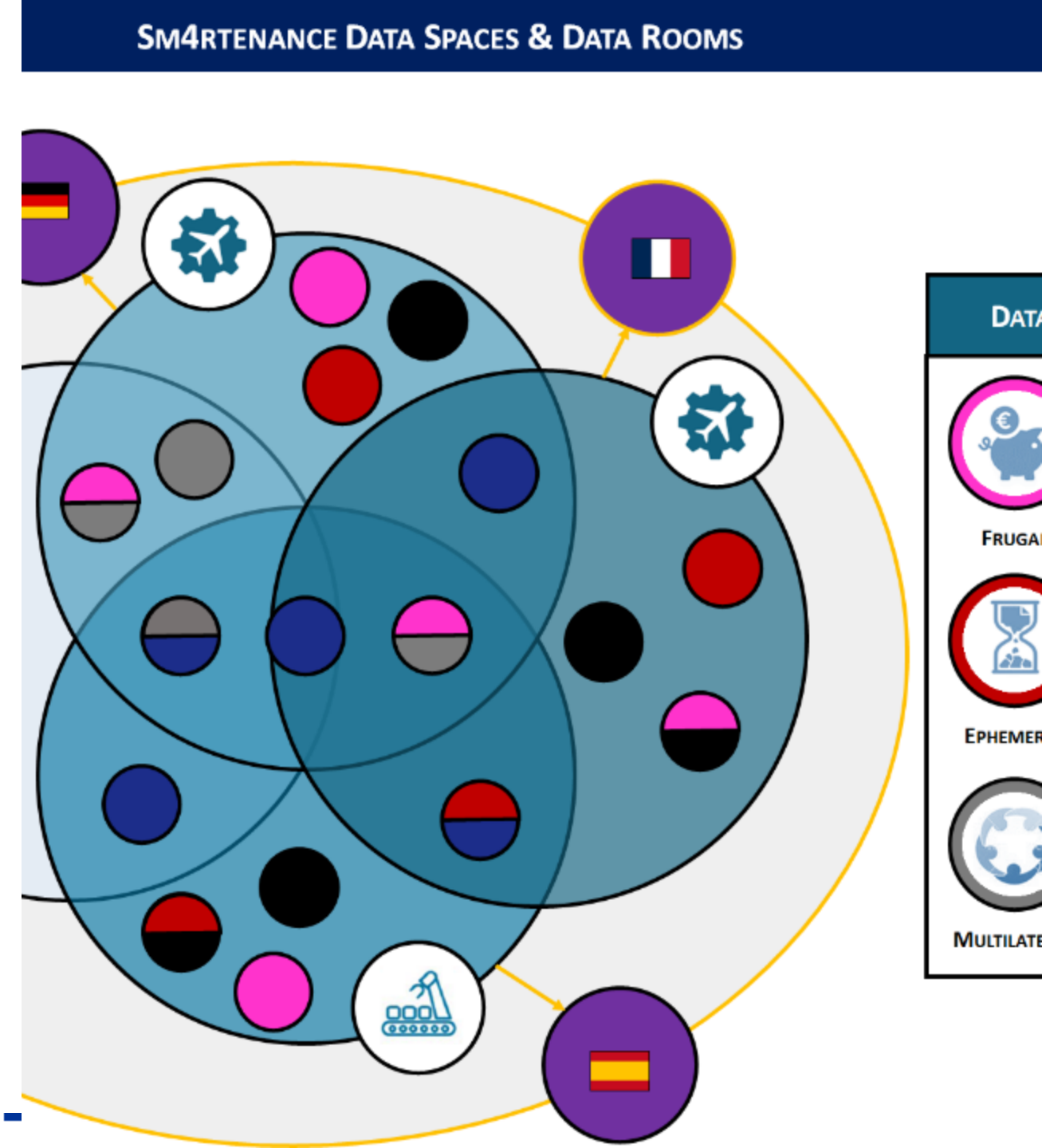


SM4RTENANCE

SM4RTENANCE
MISSION

- The DATA SPACE mission is to support the effective organisation of data and industrial ecosystem value chains to address specific manufacturing challenges.
- Organisation of Asset Management services will differ from manufacturing supply chain management services.
- However, services will coexist in factory day to day operations.



SM4RTENANCE ASSET 4.0
MISSION

Factory Challenges

RESILIENCE IN SUPPLY CHAINS	SUSTAINABILITY AND REGULATORY REQUIREMENTE	GEO POLITICS AND INNOVATION	ECONOMIC EFFICIENCY
			
"Today's peer to peer networks don't do the job"	"Collaboration models needed to capture the entire value chain"	"Sharing data is a matter of trust and sovereignty"	"Network adoption and inter-operability takes more than ONE"
EXECUTIVE AWARENESS	DATA ECOSYSTEM	EUROPEAN VALUES	INDUSTRY APPROACH

Asset 4.0 Capabilities

- SUSTAINABILITY
- MODULARITY
- FLEXIBILITY & RESILIENCE
- INTEROPERABILITY

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SM4RTENANCE ASSET 4.0

MISSION

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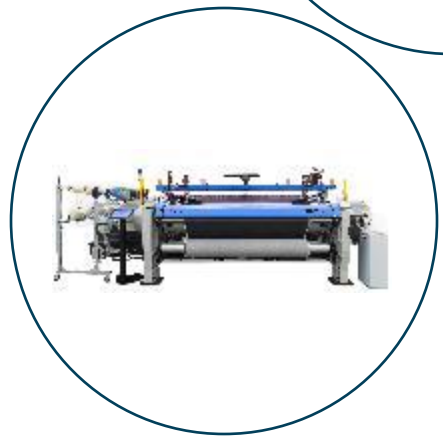

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SM4RTENANCE
MISSION

- *"TO FACILITATE A NEUTRAL CROSS-SECTORIAL DATA SPACE WHERE DATA CAN BE PROVIDED ALONG THE COMPLETE ASSET LIFECYCLE FROM THE DIFFERENT STAKEHOLDERS INTERACTING WITH THE ASSET 4.0".*


360°
360° Data
Integration

360° DATA INTEGRATION

DATA SPACE FEDERATION

...

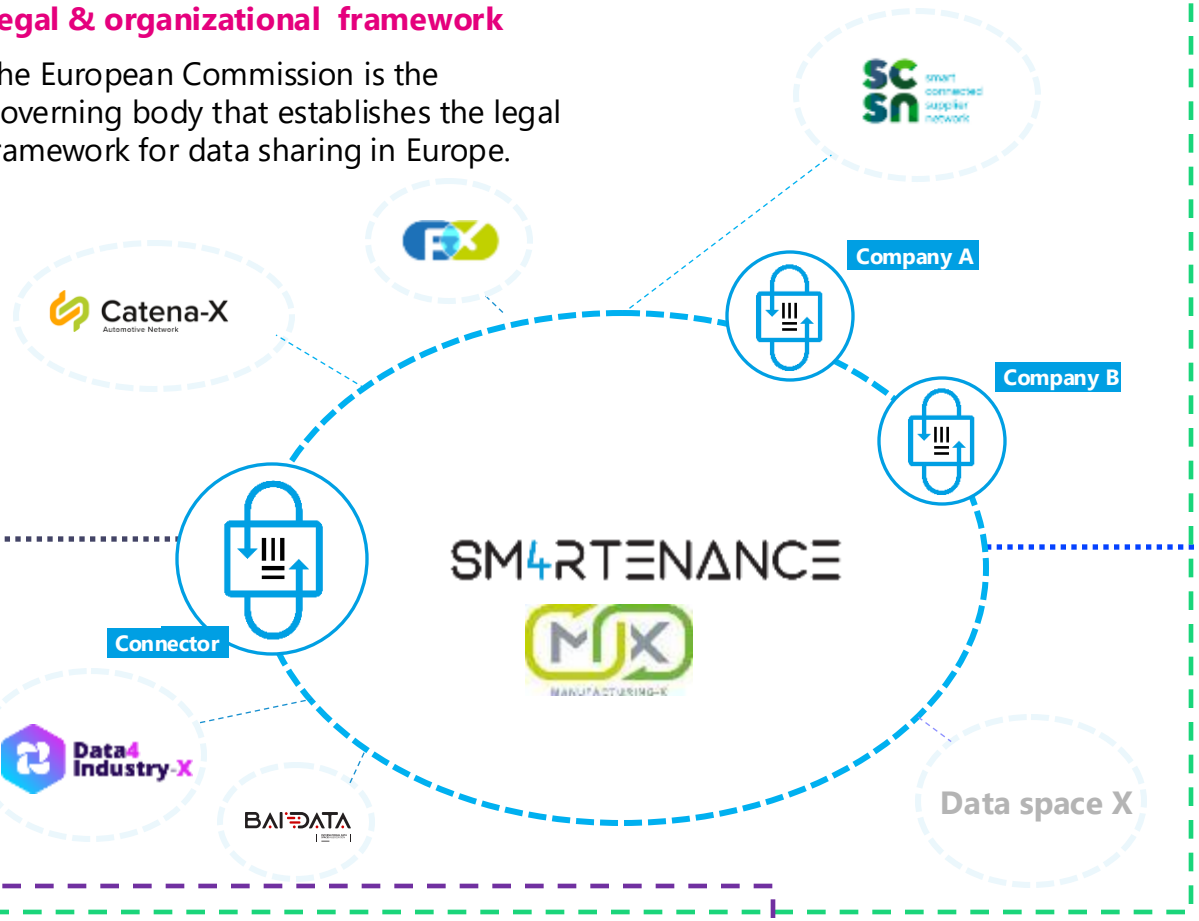
IDS provides a **reference & certification framework** to support sovereign data sharing based on diverse policies & agreements.

The **Data Space Connector** connects participants with the data space.

The connector understands the data space policies and shares data according to these policies.

Legal & organizational framework

The European Commission is the governing body that establishes the legal framework for data sharing in Europe.



Data Space Protocol

Sm4rtenance **builds and sets the federation & interoperation policies of the data space federation**.

It provides a set of lightweight **data space services**, defining the organizational rules and policies for this specific asset 4.0 network federation.

Trusted & Federated Infrastructure

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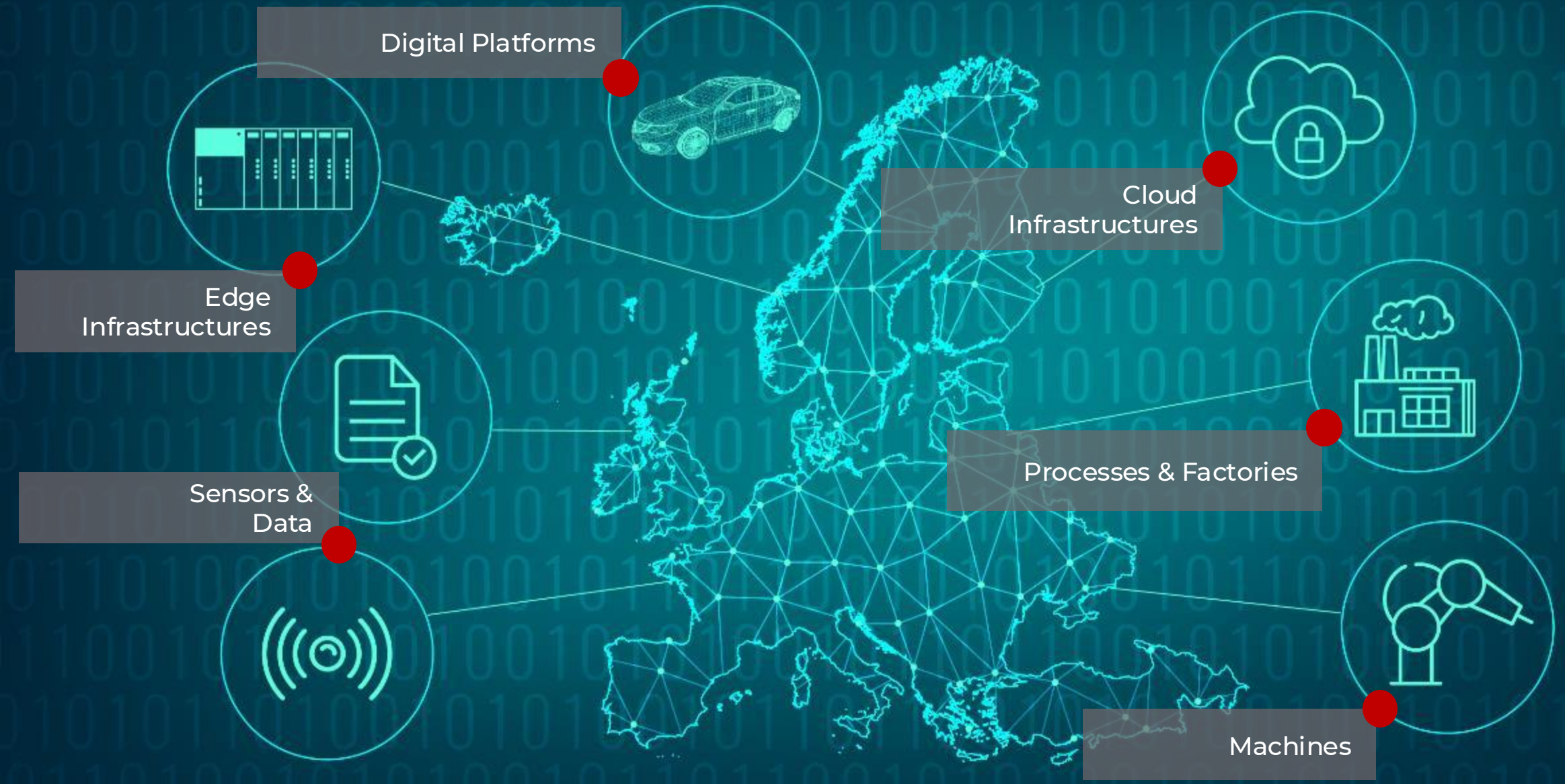
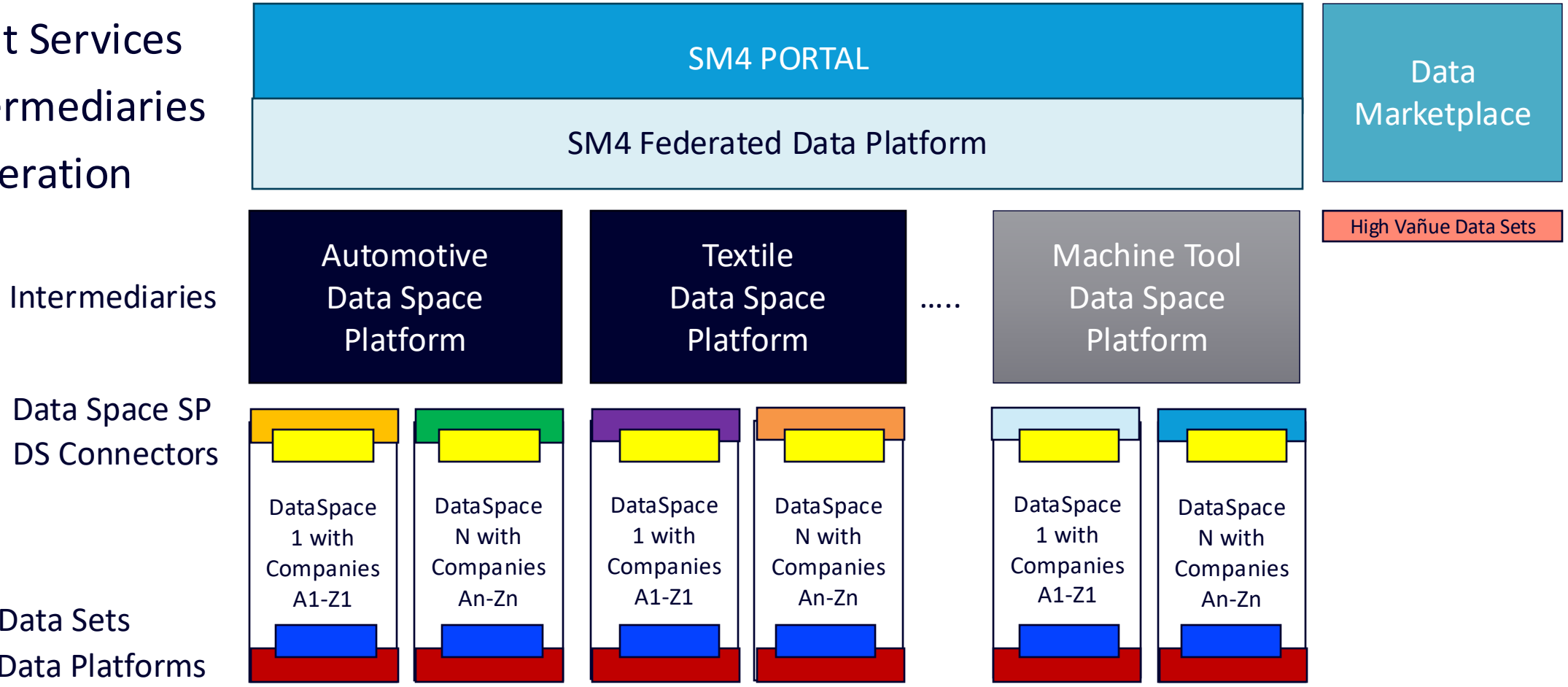
European Industrial Data Space

innovalia ASSOCIATION



SM4 Portal – Collaboration Model

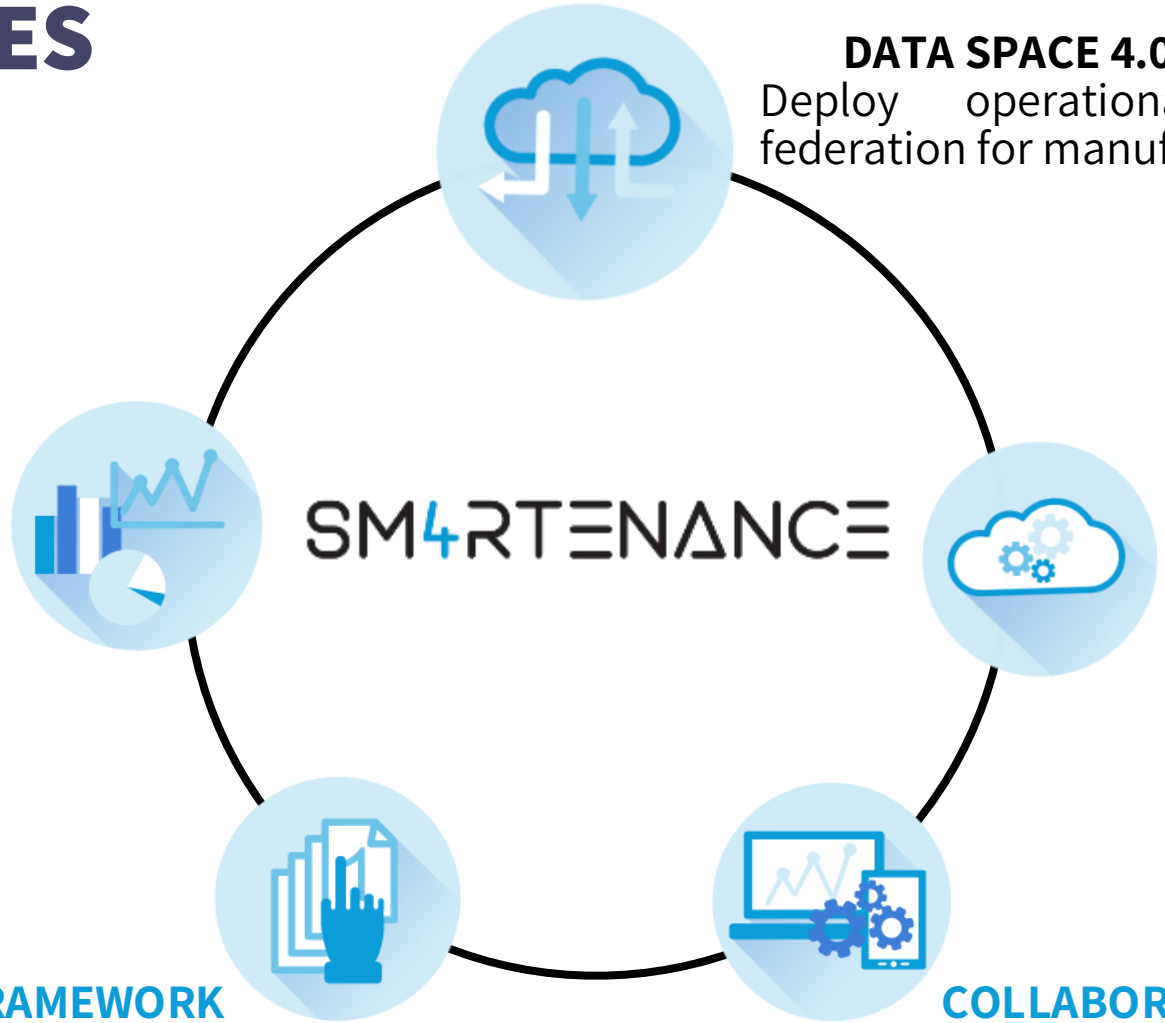
- Joint Services
- Intermediaries
- Federation



OBJECTIVES

DATA SPACE 4.0 FEDERATION
Deploy operational data space federation for manufacturing assets.

DATA SPACE ECOSYSTEM
Increase data sharing across manufacturing companies and service providers.



DATA SPACE INFRASTRUCTURE SERVICES PORTAL
Implement services portal for manufacturing asset data sharing interoperability.

DATA CHAIN TRUST FRAMEWORK
Establish industrial agreements and governance for global data sharing.

COLLABORATIVE OPERATIONS
Facilitate the development of autonomous services for manufacturing assets.

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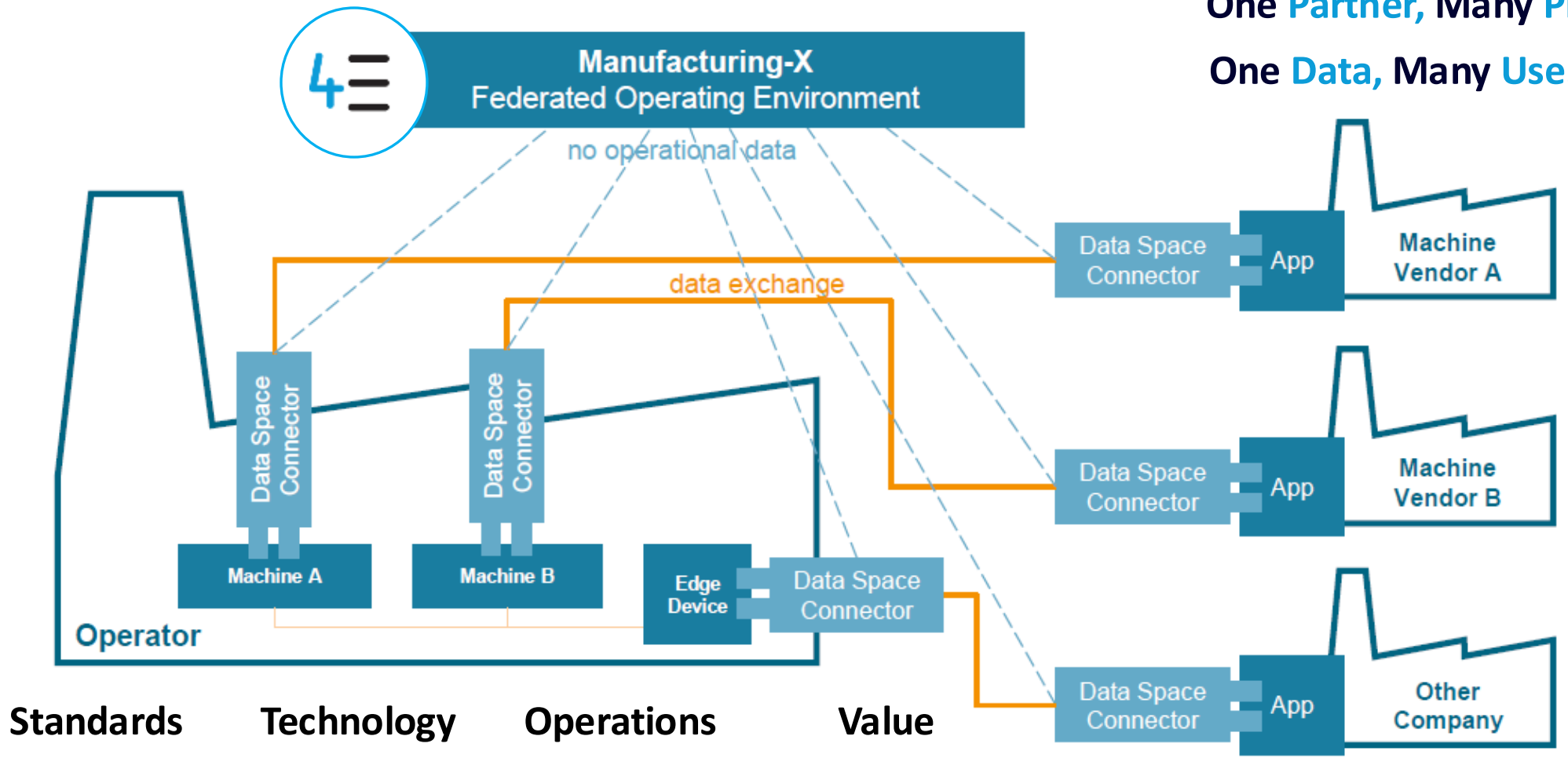
GLOBAL MANUFACTURING DATA ECOSYSTEMS

One Partner, Many Projects

One Data, Many Uses



Standards Technology Operations Value

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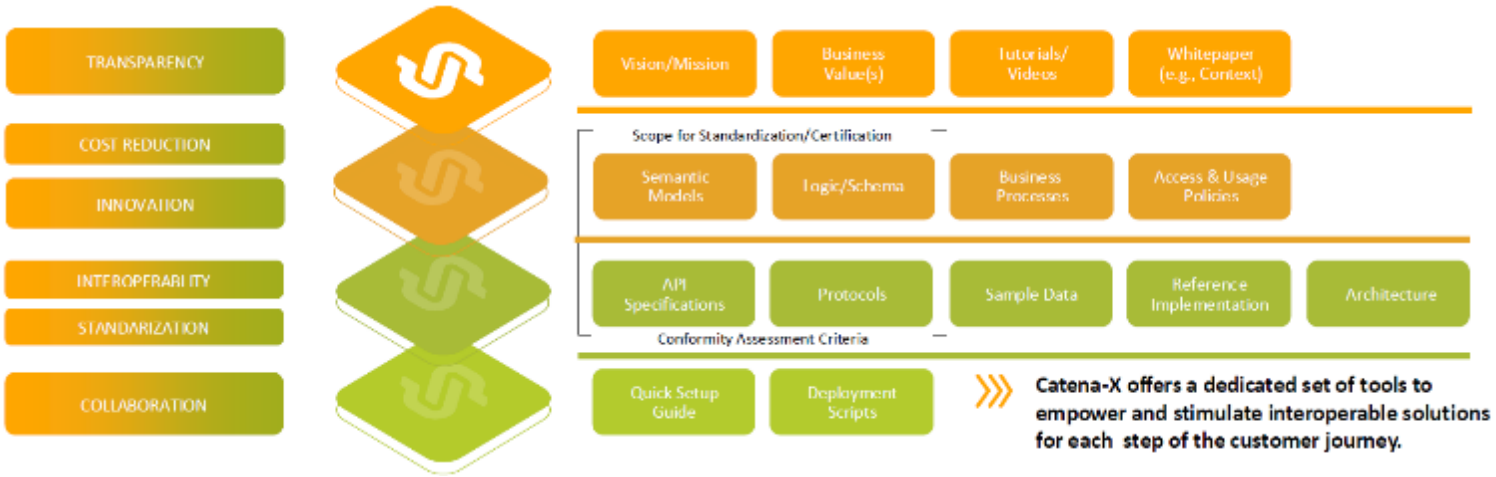
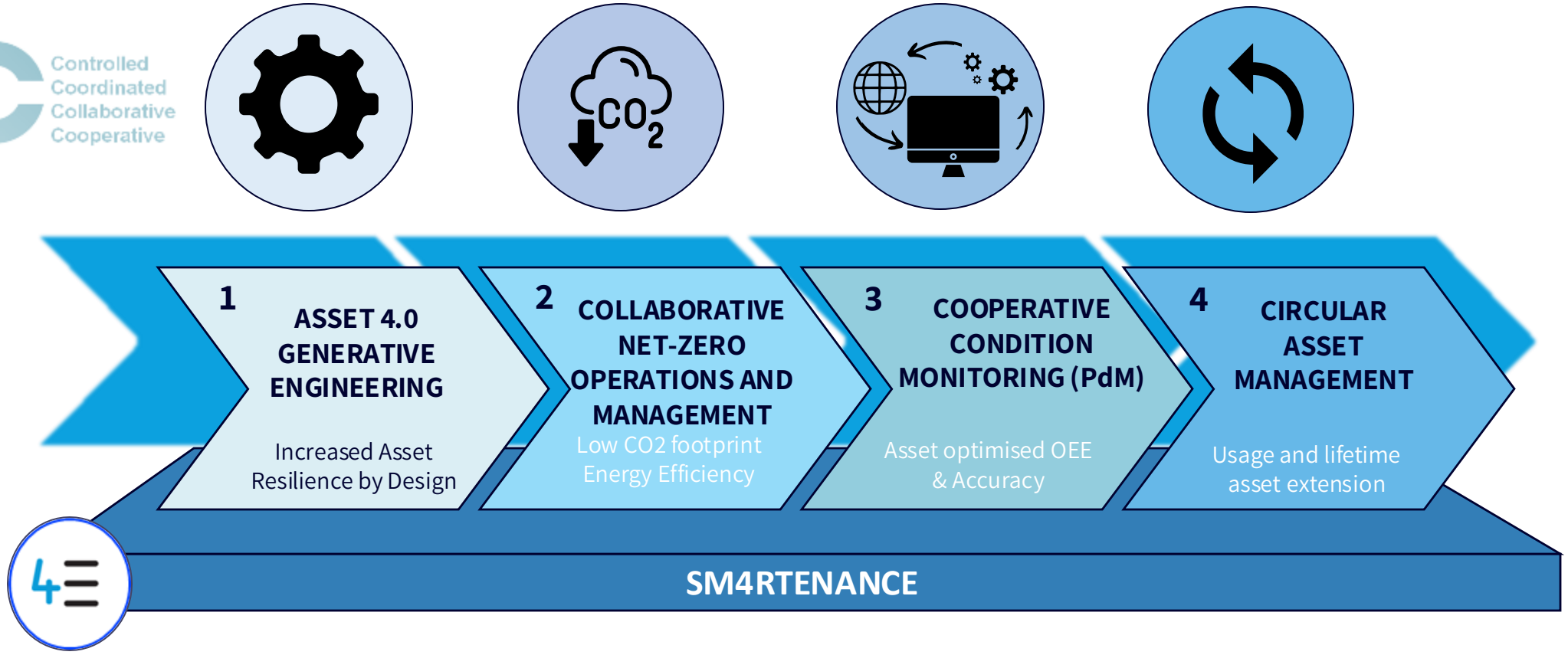
SM4 PILOTS: ROADMAP TOWARDS REPLICATION

- SM4 Pilots should evolve into operational Data ecosystems.
- SM4 Pilots should be generalized into SM4 KITs (Keep It Together) for replication



BUSINESS APPLICATIONS

Controlled
Coordinated
Collaborative
Cooperative



PILOT BUSINESS APPLICATIONS IN DIVERSE INDUSTRIES

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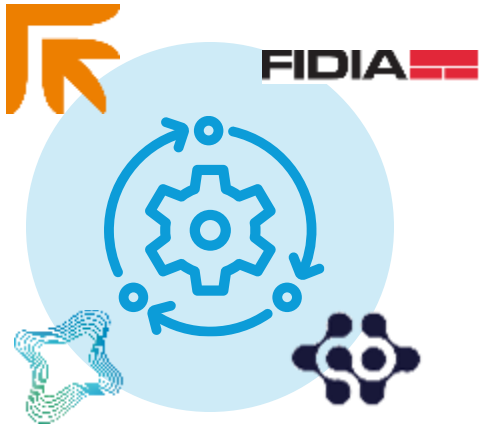
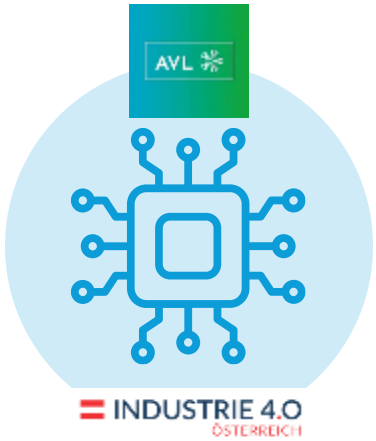


Machine tool & automation



Electronics /e-battery

Automotive

Process

Textile

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PILOT BUSINESS APPLICATIONS

ASSET 4.0 GENERATIVE ENGINEERING.
Collaborative connected product/production ecosystem to support engineering and virtual commissioning (digital twin) aiming for resilience and autonomous production.
Zero defect, zero accident, zero errors, zero time to market.

COLLABORATIVE NET-ZERO OPERATIONS AND MANAGEMENT.
Collaborative services focused on improving machine tool operations, reducing scrap, energy consumption, manufacturing errors and optimal use of manufacturing asset consumables.
Zero defect manufacturing, zero raw material use, zero net energy.

COOPERATIVE CONDITION MONITORING (PdM).
Collect data, predict health status, and plan maintenance operations and consequently reduce operations costs, improve safety, and avoid environmental harm and human casualties.
Zero stocks, zero break downs, zero supply network breaks, zero reconfiguration time.

CIRCULAR ASSET MANAGEMENT.
Development of regenerative asset systems aiming to increase resilience, reduce global supply chain reliance, and foster strategic, local, and regional capabilities while meeting sustainability targets and 9R processes.
Zero waste.

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DATA SPACE FEDERATION: SERVICE PROVIDERS

Federated data sharing space striving for interoperability for manufacturing equipment industry.

- Data Exchange Platforms
- Data Space as a Service
- Managed Data Space Services
- ….

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PURPOSE AND VALUES

Measure and document the value that can be generated, as well as the concerns, to promote widespread use of Manufacturing Data Space

SOCIETAL VALUE

- Decarbonization
- Circular economy
- Safety, Security and Resilience
- International Collaboration and Coop
- Corporate Social Responsibility

BUSINESS VALUE

- Increasing corporate value
- Improve productivity / reduce costs
- Improve product competitiveness
- Increased market capitalization
- New market creation

DRIVERS:
END USERS, SHAREHOLDERS, INDUSTRY, COUNTRY, EUROPE

Building a Certified Digital Twin with Data Spaces for Dimensional Quality Control Equipment (TRIMEK, DATAPIXEL, UNIMETRIK, SQS)

FOCUS: A connected data space with enhanced efficiency through the integration of **digital twins** and secure **data exchange**, enabling **proactive maintenance**, **zero-defect metrology production** and effective data management.

Sector

Automated Manufacturing, Machinery & Equipment, Automotive, Aerospace & Defense, Environmental & Green Manufacturing

TRIMEK — Mfg. Equip. OEM

Data Shared:
- CMM definition
- Logs

DATAPIXEL — Component Provider

Data Shared:
- Sensor definition
- Point Clouds

UNIMETRIK — Service Provider

Data Shared:
- Calibration data
- Metrology Project
- Alignment
- Measurement Plan
- Deviation map
- GD&T, QIF, Reports

Industrial Client — Factory OEM

Data Shared:
- Product (CAD, PMI, MBD)
- CMM config.
- Logs

Innovalia Metrology

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Data Value Chain

SQS SOFTWARE QUALITY SYSTEMS — **M3 DATA SPACE DEVELOPER**

innovalia ASSOCIATION — **EXPERTS IN DATA ASSETS & ECOSYSTEMS**

Automated Data Gathering and Management Processes to reduce errors

Performance Optimisation

Secure Data Transactions

Streamlined data exchange and interoperability

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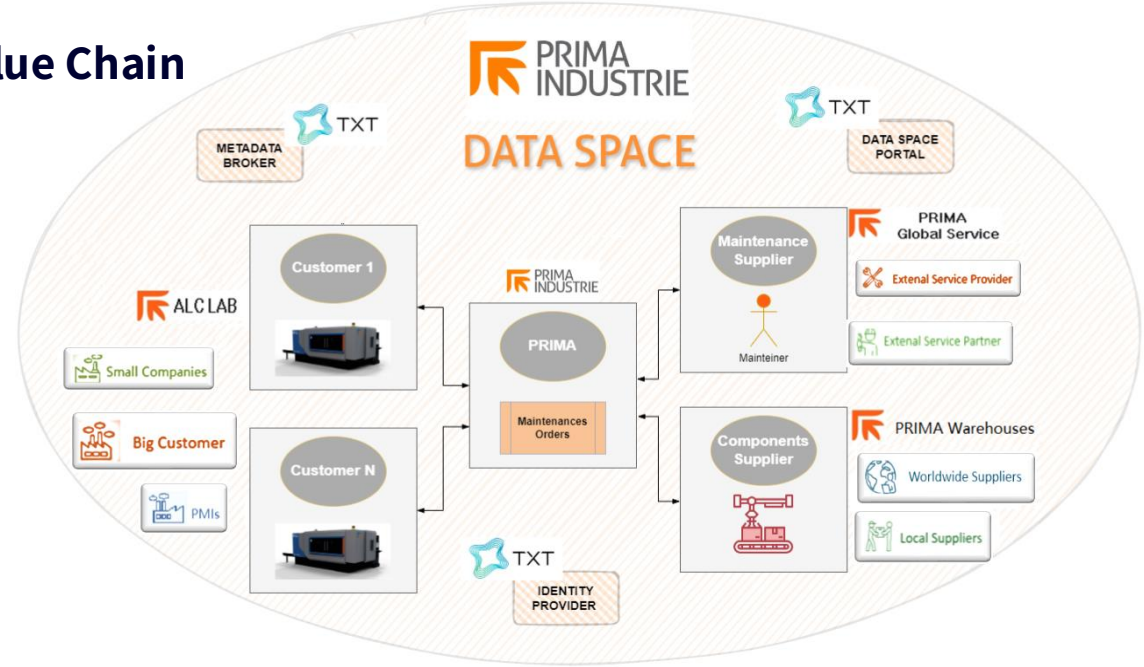
Machine Tool Fleet management with Data Spaces (PRIMA, TXT)

FOCUS: Implement **Predictive Maintenance** functionalities for **2D laser cutting machines** supported by **Artificial Intelligence** algorithms through the analysis of laser process states and behaviours combined with internal CNC information.

Sector:

Machinery & equipment: metal sheet machinery, laser cutting & welding, bending, punching and automation systems

Data Value Chain



Reduction of spare parts inventories

Increase the average life of the systems

Reduction of Average Intervention Time

Reduce the cost maintenance for customers leading to closer relationships with the end customer and suppliers

Reduction in the number and duration of machine downtime

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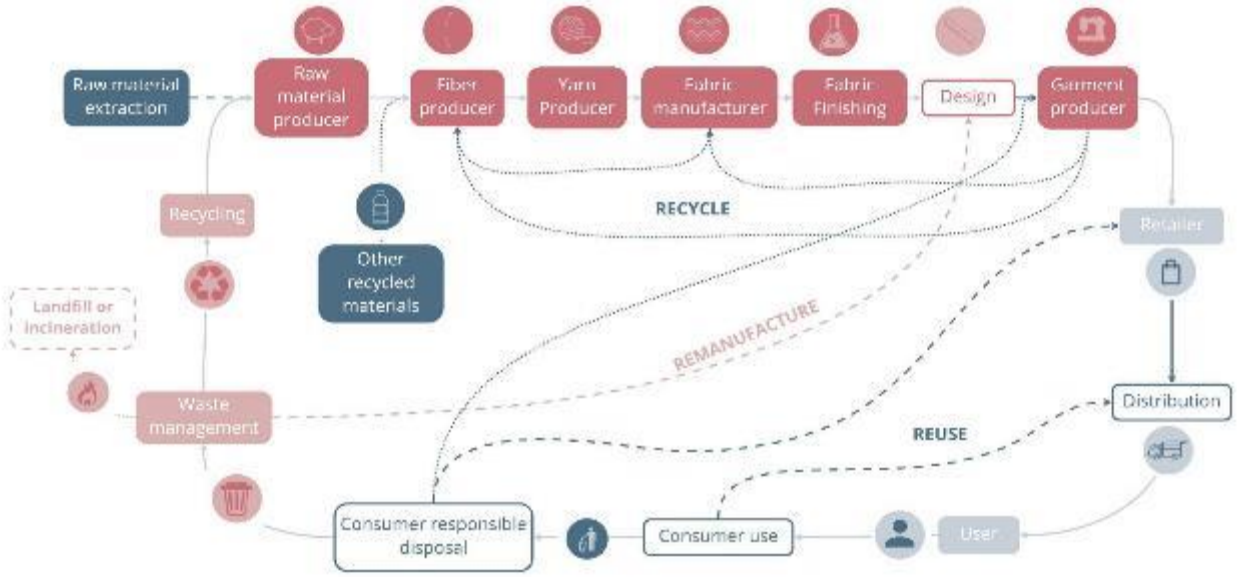
Optimization of the Production Performance through DPP (PIACENZA, DOMINA, SYXYS)

FOCUS: With the 2027 incoming EU **Digital Product Passport** regulations in mind, the objective of this pilot is to enable the **data sharing** between the **different fabric manufacturing facilities** via a Data Space, fulfilling their part of the **traceability** requirements and supporting **circular textile product management.**

Sector:

Textile and Clothing

Data Value Chain



Automated data management

Cost and time reduction

Environmental performance management and optimisation

Easier regulation compliance for SMES & Suppliers Support

Co-funded by the European Union

SM4RTENANCE

Trusted Data Sharing for Manufacturing Equipment Industry

Thank you!

sm4rtenance.eu

twitter.com/SM4RTENANCE

linkedin.com/company/sm4rtenance/about

info@sm4rtenance.eu

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efnms

INTERNATIONAL DATA SPACES ASSOCIATION

VDI

SAGE | The Data Space for a Sustainable Green Europe

Intro to SAGE: Green Deal Data Space

Overview, Challenges, Opportunities

Co-funded by the European Union

22 May 2025 by Mark Dietrich

Project Overview

36 months, 40+ partners, €16 million (only 50% funded by EC), March 1 start

Project lead: International Data Corporation (IDC)

- Mark Dietrich: Technical Coordinator =~ CTO

Use Cases:

1. Forest Transformation/Forest Inventories and Remote Sensing
2. Pollinator Monitoring
3. Soil Circularity
4. Built Environment CO2 Monitoring
5. Circular Textiles
6. Net Zero Defect Manufacturing
7. Climate Investment Plan
8. Environmental Hazards
9. Nature and ecosystem services trade-offs
10. Air Quality and Health

10 use cases – we'll hear from 2

UC1 Forest Dataspace (FDS) Cluster -WE

UC2 Pollinator Monitoring Dataspace (PMDS) – PSNC

UC3 Soil Circularity Dataspace (SCDS) - SOGELINK (SOG)

UC4 Construction Environment CO2 Hub & Building Twins (BECO2) - IShare (IS)

UC5 Circular Textiles Dataspace (CTDS) -Reverse Resources

UC6 Net-Zero Zero Defect Manufacturing - INNO-TRI-SAT

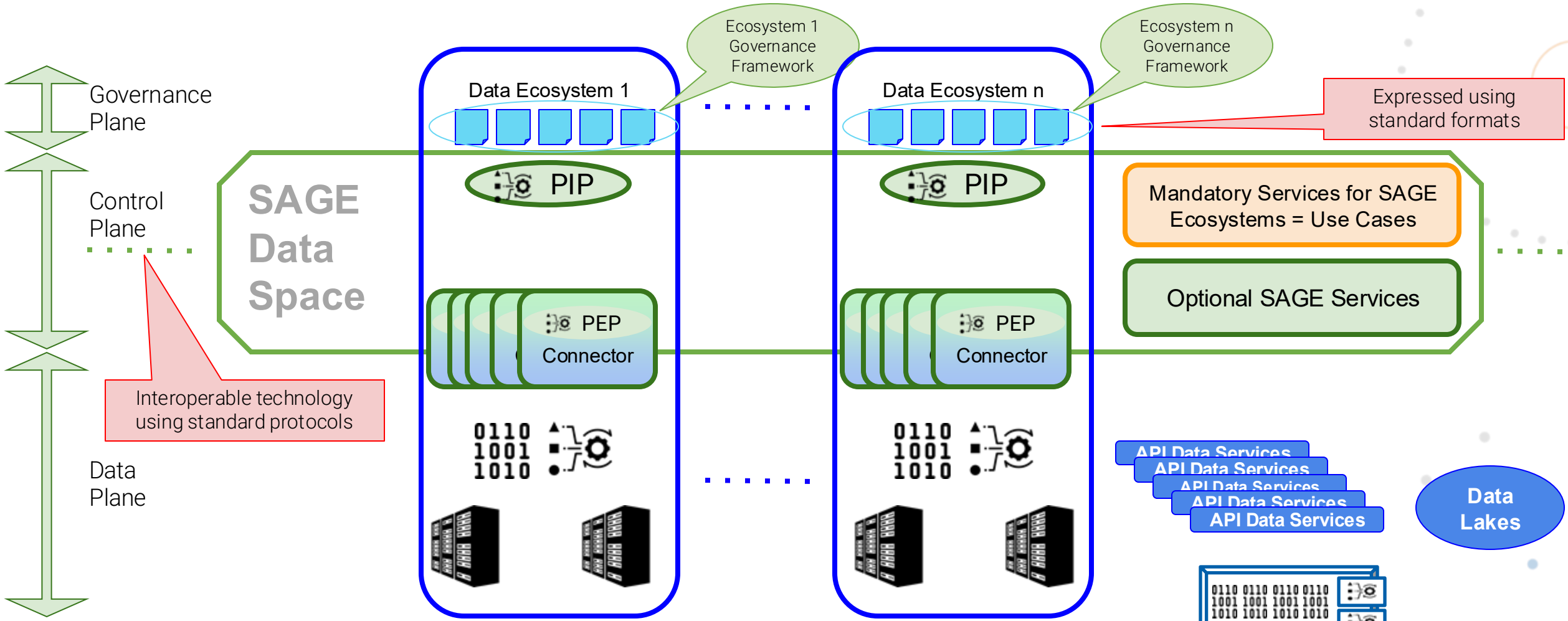
UC7 Climate Investment Plan Dataspace (CIPD) - RISE

UC8 Environmental Hazards Data Space (EHazDS) - Utrecht University

UC9 Nature and ecosystem services trade-offs (NECST) assessment tool - NTTDES

UC10 Air Quality and Health Dataspace (EIRENE) - CNR-IIA

Architecture Overview



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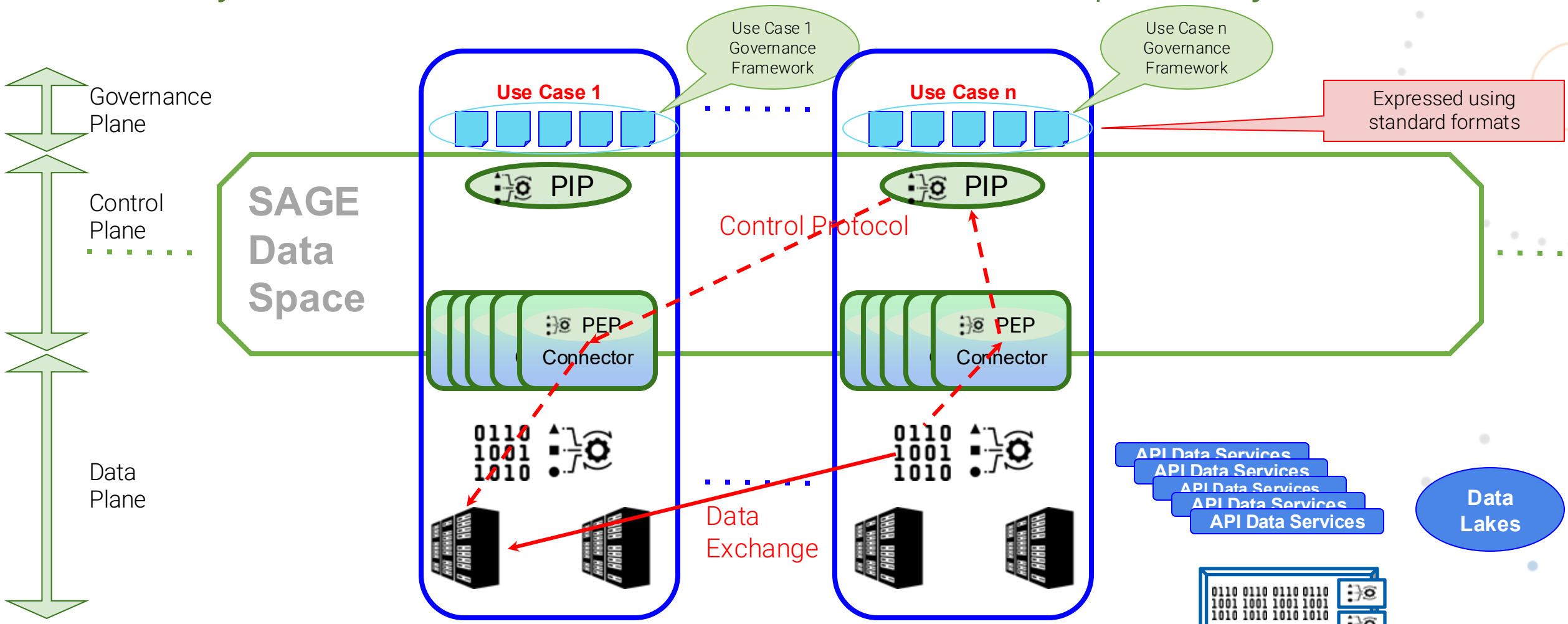
Ecosystems → Use Cases; Cross Use Case Interoperability



Data from Use Case n can move to Infrastructure linked to Use Case 1

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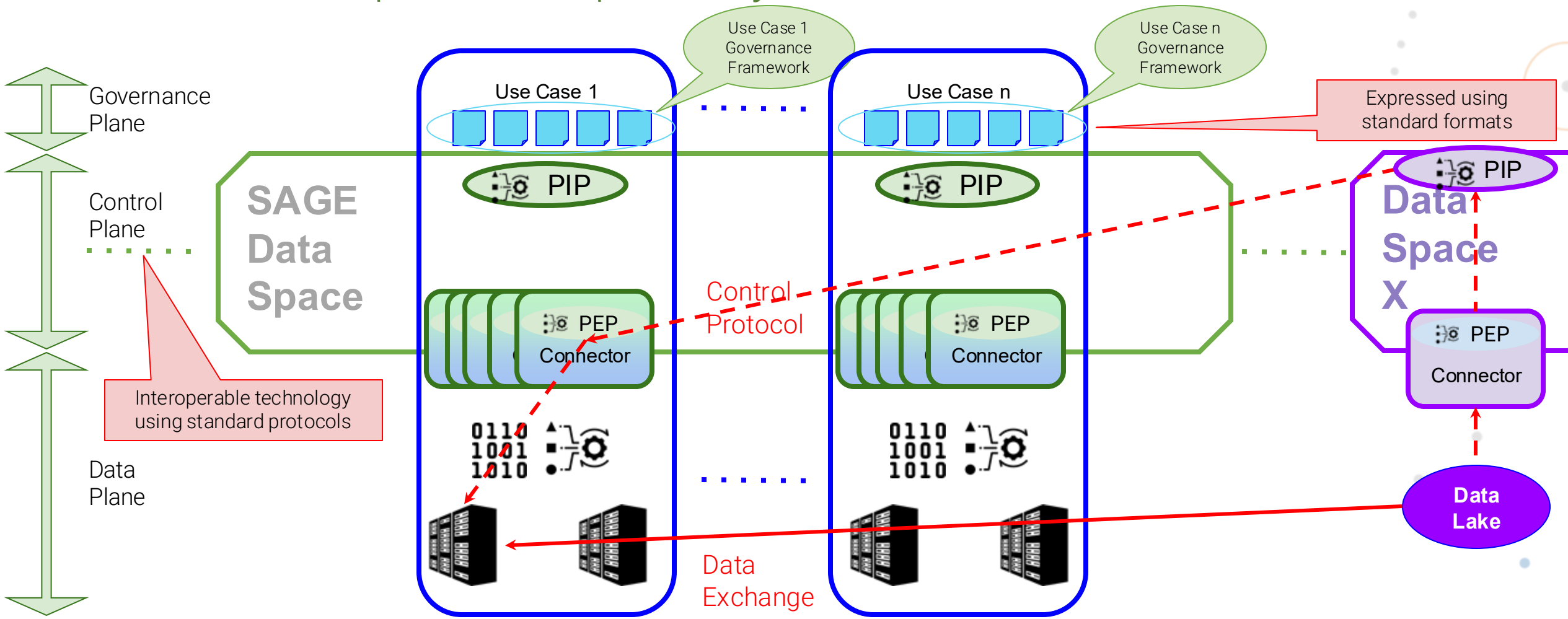
Cross Data Space Interoperability



Data from Data Space X can move to Infrastructure linked to SAGE

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SAGE Priorities

- Bring 10 Use Cases into production
- Expand Available Data
  - Data required for Use Cases
  - Priority datasets/data services identified in GREAT
  - Onboarding to SAGE supports accessibility to many data ecosystems (e.g. 1 connector should connect to multiple data spaces, and support corresponding governance frameworks)*
  - “Non-connectored” data sources (e.g. API data services) supported through Catalogue
- Expand Usage
  - Expanded/new users
  - Expanded/new use cases

Co-funded by the European Union

Thank you!

email: **mjdietrich@bloodstone-consulting.com**

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the European Union


SAGE
THE DATA SPACE FOR A SUSTAINABLE GREEN EUROPE
WARSAW
13-14 MARCH 2025

SAGE
Use Case Demonstration

JOEl SEPULVEDA
Innovalia Association

olazaro@innovalia.org

Objectives

- Drive innovation through real-world applications.
- Demonstrate the application of data interoperability and standardization.
- Integrate data stakeholders.
- Generate opportunities for added value from the core services provided by the GDDS.
- Provide impactful insight for policy and regulatory compliance.
- Attract new GDDS users and data providers,
- Drive income generation and ensure the continuous improvement and expansion of the GDDS ecosystem.

Use cases topics and goals

1. Climate protection through the reduction of greenhouse gases.
2. Climate impact adaptation.
3. Sustainable use and protection of water and marine resources.
4. Transition to a circular economy, recycling, and waste prevention.
5. Pollution prevention and control.
6. Protection and restoration of biodiversity and ecosystems.

Use Case	Name	Sectors		Leader	Country	Zero Pollution Action Plan	Biodiversity Strategy	Climate Change Adaptation & Mitigation	Circular Economy Action Plan	Data Space Synergies
UC1	Forest Dataspace (FDS) Cluster UC1.1 "Forest Transformation" UC1.2 " Convergence of National Forest Inventory with remote sensing and local inventories"			WE	DE		FOREST	FOREST		
UC2	Pollinator Monitoring Dataspace (PMDS)			PSNC	PL		AGRICULTURE	AGRICULTURE		Agriculture
UC3	Soil Circularity Dataspace (SCDS)			GE	DE	CONSTRCUTION AGRICULTURE			CONSTRCITON AGRICULTRE	Agriculture, Construction
UC4	Construction Environment CO2 Hub & Building Twins (BECO2)			IS	FI	CONSTRCUTION		CONSTRCUTION	CONSTRUCTION	Construction
UC5	Circular Textiles Dataspace (CTDS)			TR	NL				INDUSTRY -TEXTILE	Manufacturing
UC6	Net-Zero Defect Manufacturing (ZDM)			INNO	ES	INDUSTRY-OIL & GAS		INDUSTRY-MANUFACTURING	INDUSTRY - MANUFACTURING	Manufacturing, Energy
UC7	Local City Twins Climate Investment Plan Dataspace (CIPD)			RISE	SE	CITIES		CITIES		Smart Communities
UC8	DestinE Environmental Hazards Data Space (EHDS)			UU	NL	DESTIN E		DESTIN E		
UC9	Nature and Ecosystem Services Trade-Offs (NECST) Assessment Tool			NTT	ES		DESTIN E			
UC10	Air Quality and Health Dataspace (EIRENE)			CNR	IT	HEALTH				Health, Mobility

Timeline

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
WP5	**Use case demonstration**	**Leader**																																				
6.1	Use case Methodology and Monitoring	Fujitsu																																				
6.2	Biodiversity	WE																																				
6.3	Climate Change Adaptation and Mitigation	GNVM																																				
6.4	Zero Pollution	PSNC																																				
6.5	Circular Economy	TXRD																																				

D6.1: Use cases methodology and initial requirements analysis [M4]

MS10: Initial use cases requirements gathering completed [M4]

D6.2: Use cases final requirements and GDDS integration plans [M18]

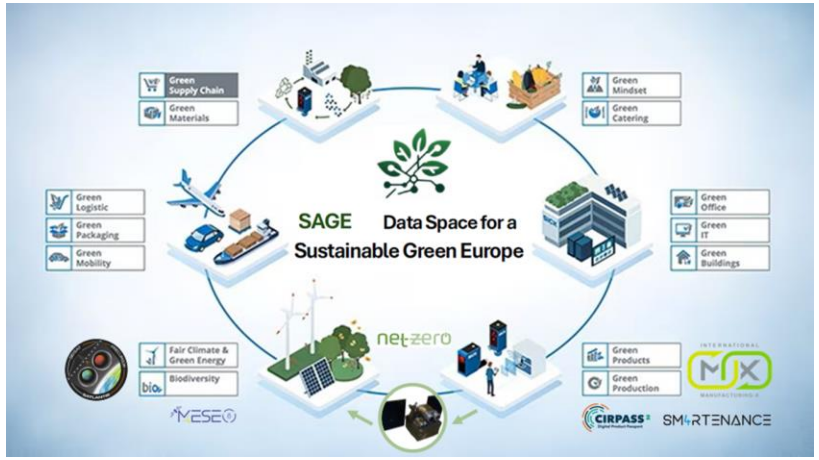
MS11: Final list of use case requirements completed [M18]

D6.3: Use cases sustainability plans and validation reports [M36]

MS12: Use case evaluation and integration completed [M35]

MS13: User validation reports completed [M35]

UC6 Net-Zero Zero Defect Manufacturing -INNOVALIA



Green Products & Production – Mfg DS

- ESPR/DPP, ESG Reporting.
- Low PCF & energy efficient circular manufacturing equipment.

SM4RTENANCE, CIRPASS-2

Green Energy Industry & Climate – (E2E) EO DS

- GEISAT Precursor Copernicus Contribution Mission (CCM).
- Detection and monitoring of methane emissions from the Oil & Gas industry.

MESEO, GEISAT.

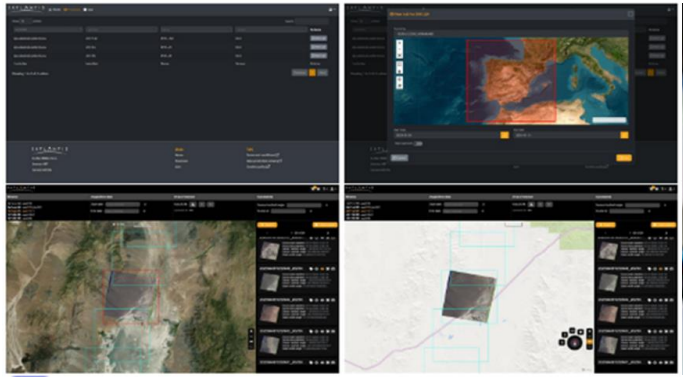


Image 1. Satlantis Data Hub

Image 2. GEISAT Precursor satellite

Image 3. Satlantis Mission Control Centre

Circular Textiles Cluster in the European Green Deal Data Space

22nd of May 2025

VISION

WHY

The textile industry has the opportunity to lead a new era of prosperity—where economic growth is powered by the intelligent circulation of resources, enabling abundance, resilience, and value for people and the planet.

HOW

By making data across the value chain visible, connected, and trusted, we enable shared understanding, smarter decisions, and systemic progress toward circularity.

WHAT

The Textile Cluster under Green Deal Data Space brings together public and private actors—PROs, DPP providers, brands, recyclers, policymakers, and digital platforms—into a secure ecosystem where textile data becomes interoperable, reusable, and a driver of effective circular action.

USE CASE SCOPE

- Design and test an EU level Producer Responsibility Organization Information System (PRO-IS)
- Co-develop open access EPR reporting methodology in collaboration with PROs
- Connect digital tools and services for the textile value chain within the Green Deal Data Space and enable secure data exchange
- Connect with developing Digital Product Passport data flows
- Create a roadmap for statistics generation based on near real-time data flows

Project coordination
IDC - Coordinator, WP leads - CREAF, EGI, ECMWF, EODC, Innovalia, iShare

Textile Use Case
TEXroad
Atma.io
Centraal Bureau voor de Statistiek
Consiglio Nazionale delle Ricerche
Erion
GS1 Europe
MangoStone
Reverse.fashion
Reverse Resources

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or HaDEA. Neither the European Union nor the granting authority can be held responsible for them.

Co-funded by the European Union

THE TEAM

Platforms, software, digital tools

atma.io by Avery Dennison

DPPs

mangostone

Logistics + sorting software

Reverse Resources

Marketplace + traceability platform

reverse.fashion

Textile sorting tech

TEXROAD

Align + report data

Standards

GS1 in Europe

Identifiers + product codes

PROs

erion

Textiles, WEEE, packaging + more

Public institutions + research partners

Consiglio Nazionale delle Ricerche

Digital expertise + local support in IT

Statistics + reporting methodologies

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or HaDEA. Neither the European Union nor the granting authority can be held responsible for them.

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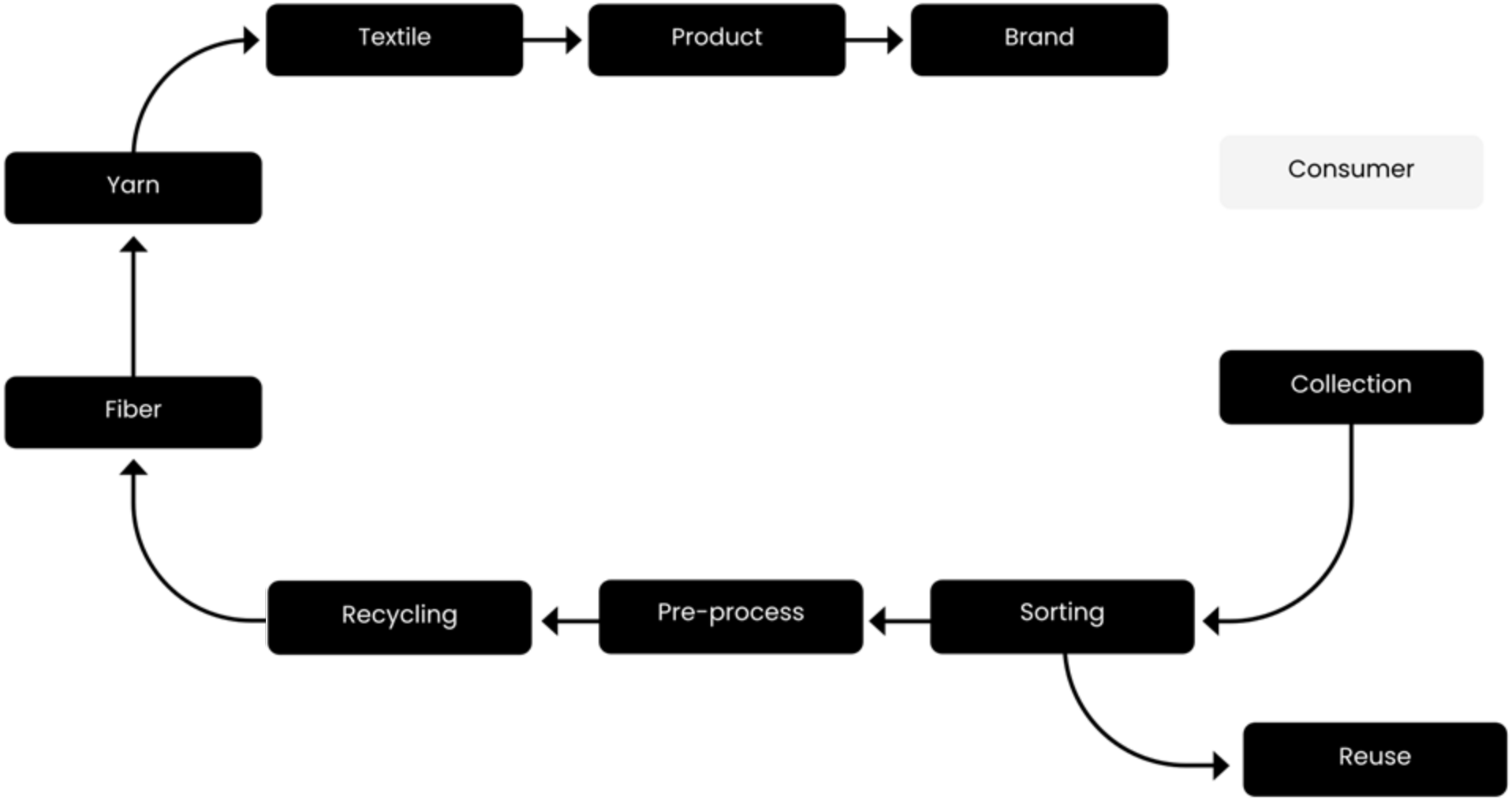
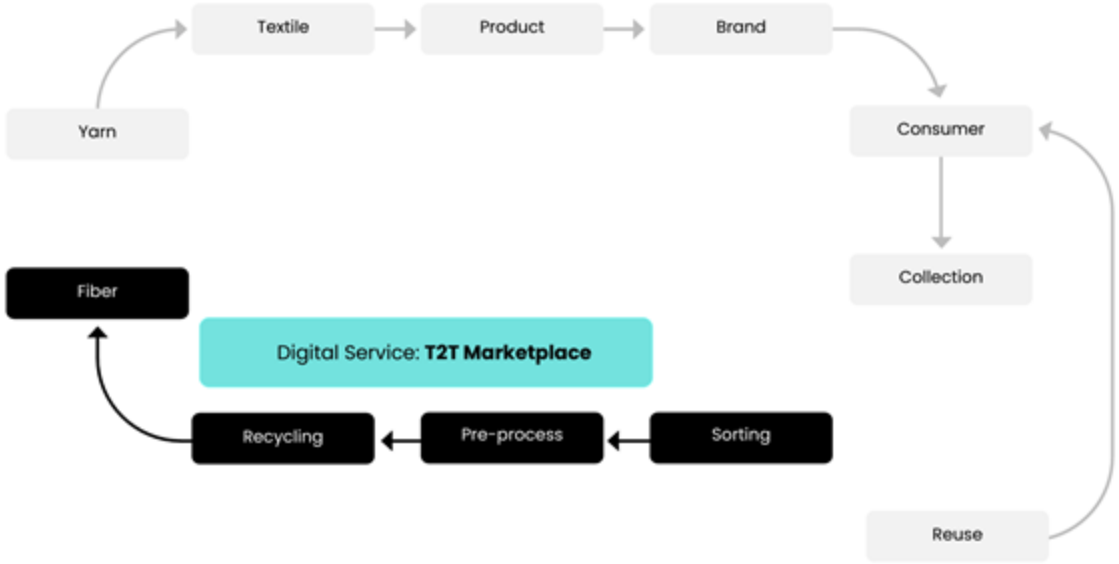
Connected data flows

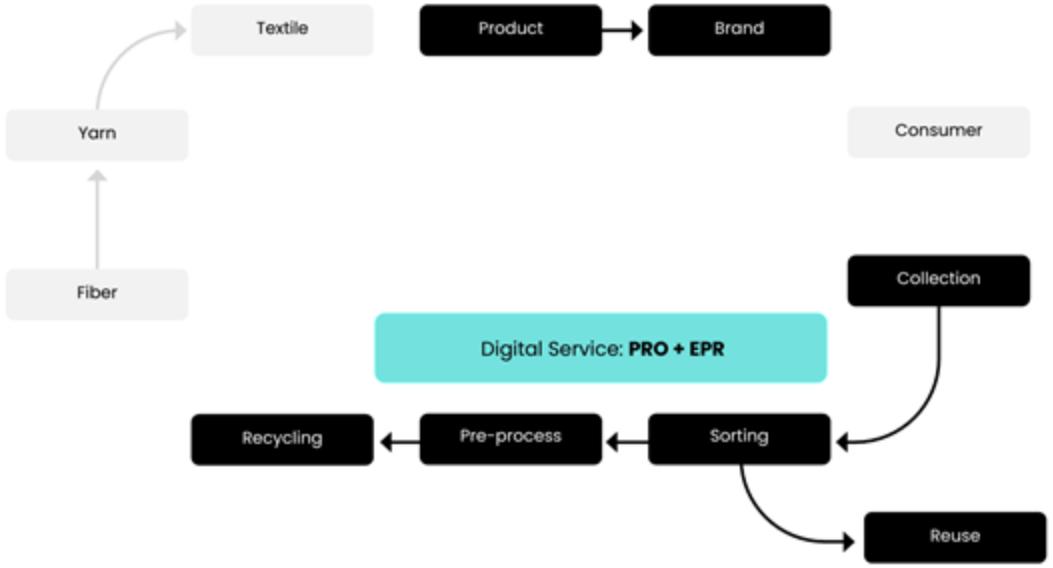


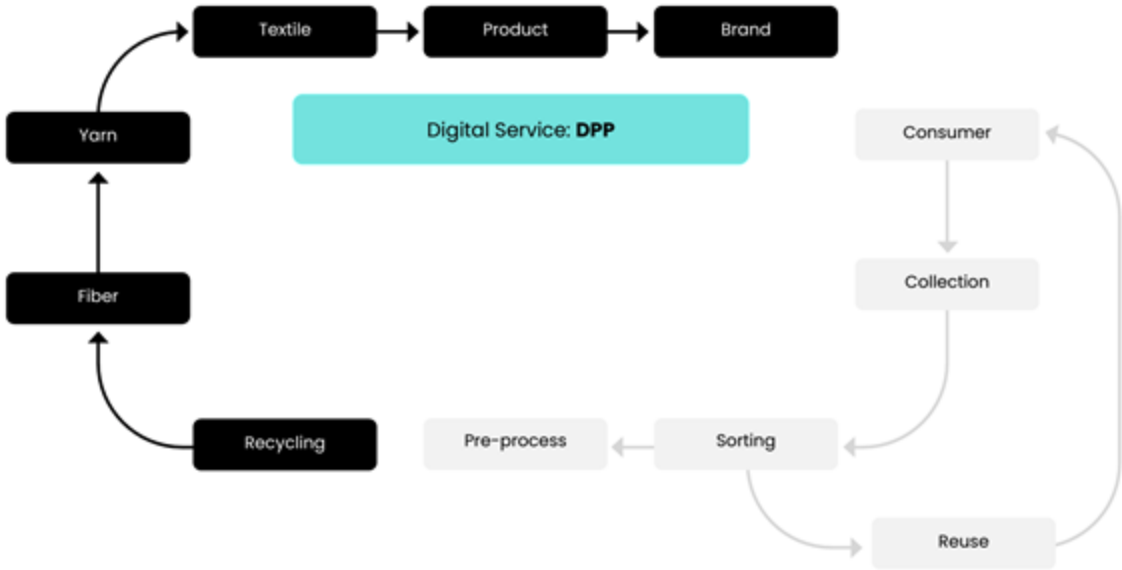
CURRENT SYSTEM

Platforms, softwares, digital tools

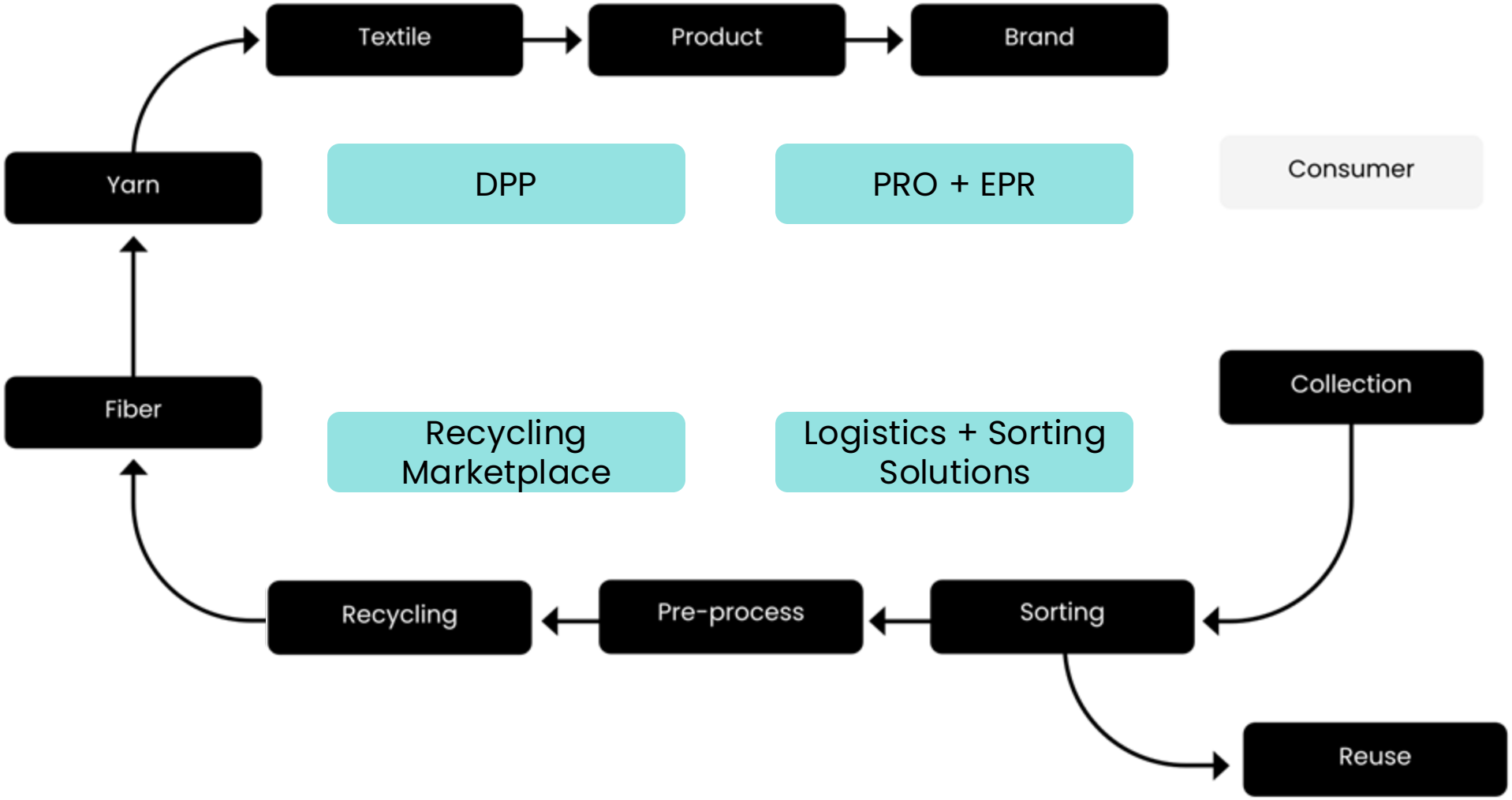
Supply chain



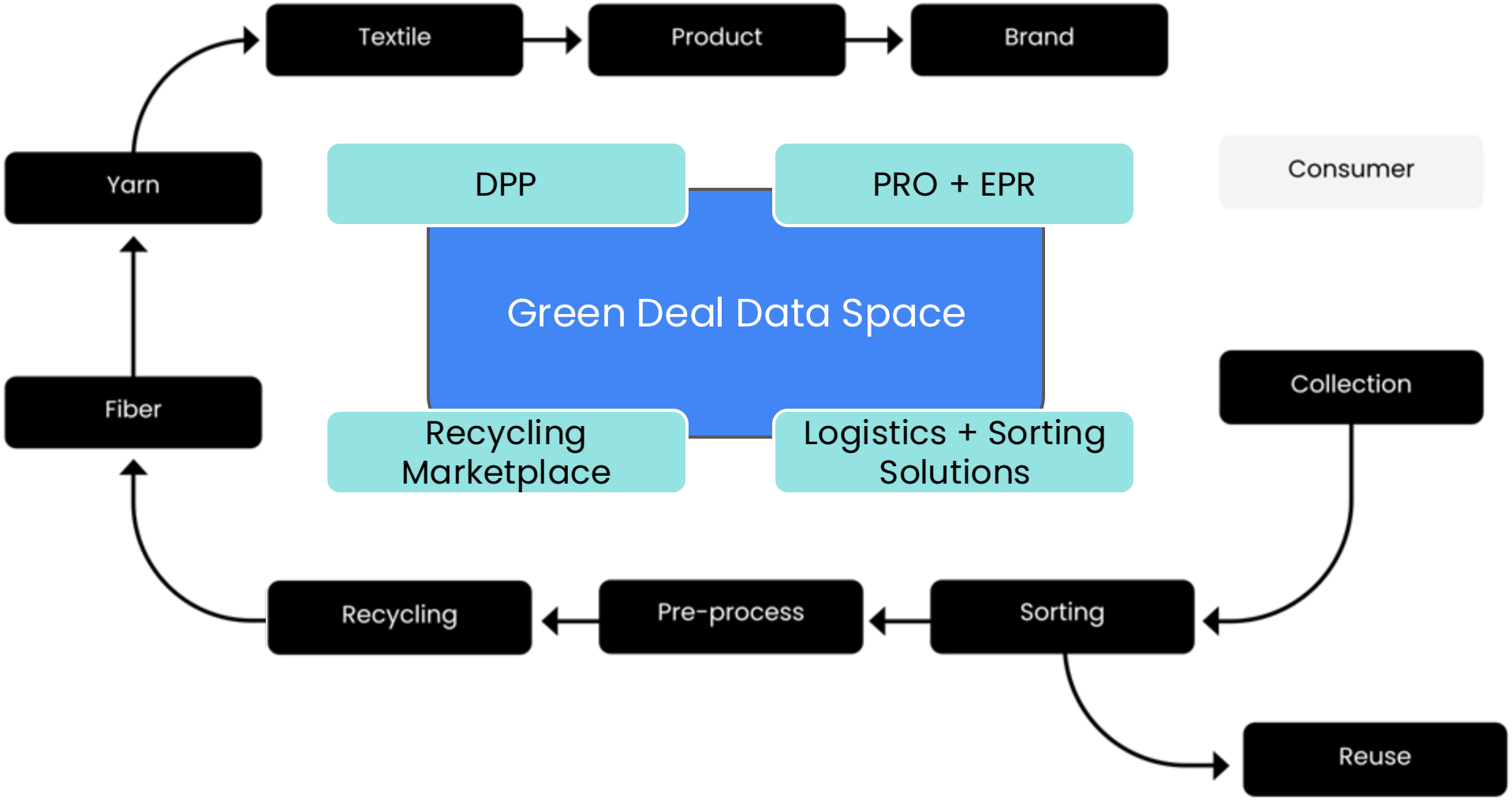




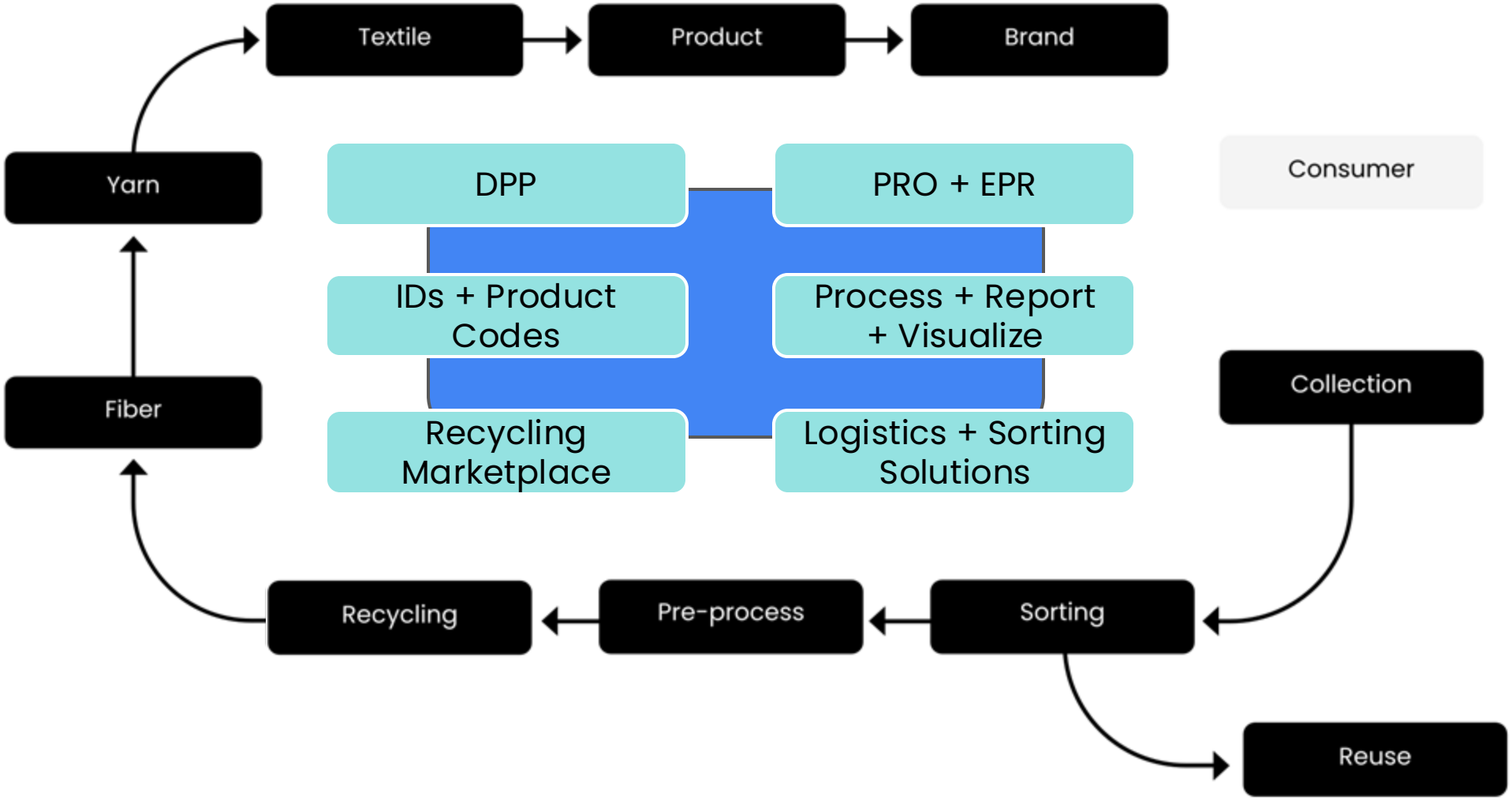
Connected data flows



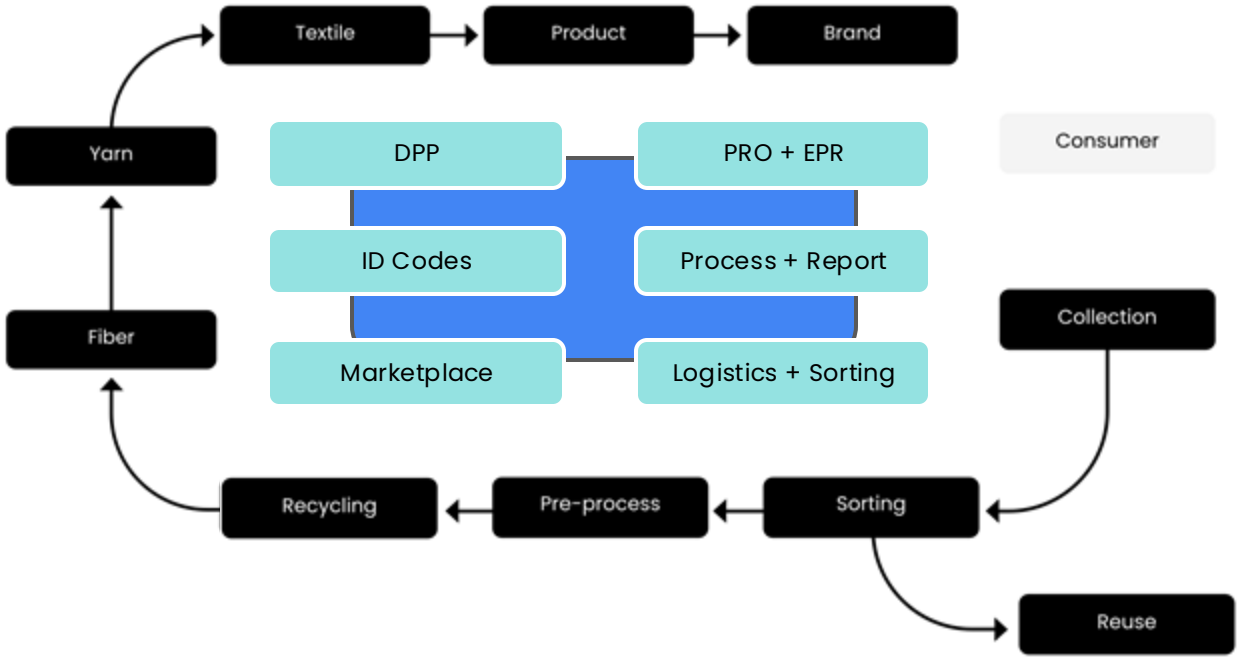
Connected data flows



Connected data flows



Benefits + value



- **Efficiency**
  - EU level system for EPR reporting (PRO-IS)
  - Reusable credentials and data (once-only data entry)
- **Transformation**
  - Resources are visible and measurable
- **Economically viable**
  - Profitable circular business models
  - Financially sustainable digital infrastructure

The GDDS Circular Textile Cluster is taking the lead in connecting the platforms and the data.

But we need case studies to show how it adds value in practice!

Get in touch!
carla.fite@reverseresources.net

Reverse Resources

Launching the first and only commodity marketplace for textile waste to scale textile-to-textile recycling globally

Global network: waste & recycling data from 38 countries connecting textile waste with recycling

18 largest fashion corporates on board

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Today trading with **1,500 tonnes/month,** ~2% of the market

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Redefining textile waste as resource.

Digitise. Connect. Trade. Trace. Measure.

Q&A

DATA SPACES SUPPORT CENTRE

Subscribe to the DSSC Newsletter!

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

Funded by the European Union