Industry Panel

Key Challenges and Trends in Decentralized ID, Data Sovereignty and DLT for Energy in Cloud-Edge-IoT

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Industrial Economic Spaces

1993

European Single Market

European economic & industrial transformation

2023

European Common Data Spaces

Industrial & public administration data-driven digital transformation.

2030

European Data Union

Interoperable & AI powered competitive industrial decarbonisation

Industrial 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

The industrial challenges are on the table **and can‘t be solved with the current siloed operating model any longer.**

Sustainable Industrial Competitiveness

Strengthen the **business case** for a competitive twin transition.

Facilitate multiple industries access to **affordable energy**.

Resilient Industry & Supply Chains

Integrate decarbonisation policies with **industrial, economic, and trade policies**.

Compliant Industrial Digital Platforms & Networks

Promote competitiveness of clean tech manufacturers – **regulatory tsunami, global trust** (DPP, etc…)**.**

EC Competitiveness Compass

3 Transformational Imperatives to Boost Competitiveness

5 Horizontal Enablers

EC Competitiveness Compass

Pillar 1

1. Closing the innovation gap

The first pillar is about driving productivity through innovation. The Commission will work to create a new dynamism for Europe's industrial structure.

How:

- Facilitate the establishment of start-ups and conditions for scaling up
- Create a deeper and efficient venture capital market
- Ease mobility and retention of talent
- Invest in state-of-the-art infrastructures
- Boost innovation and research

Flagship Actions Pillar 1

- Start-up and Scale-up Strategy
- 28th regime
- European Innovation Act
- European Research Area Act
- AI Factories Initiative, Apply AI, AI in Science, and Data Union Strategies
- EU Cloud and AI Development Act
- EU Quantum Strategy and a Quantum Act
- European Biotech Act and Bioeconomy Strategy
- Life Sciences Strategy
- Advanced Materials Act
- Space Act
- Review of the Horizontal Merger Control Guidelines
- Digital Networks Act

Global trust based on harmonised standards

No "one-size" fits all – freedom of choice

Your (sensitive) data, your choice

Scale with your budget

EC Competitiveness Compass

Pillar 2

How:

- Integrate decarbonisation policies with industrial, economic, and trade policies
- Facilitate access to affordable energy
- Strengthen the business case for a clean transition
- Promote competitiveness of clean tech manufacturers

2. A joint roadmap for decarbonisation and competitiveness

This pillar is about integrating decarbonisation policies with industrial, competition, economic and trade policies. They are a powerful driver of growth when they are well integrated.

Flagship Actions Pillar 2

- Clean Industrial Deal and an Action Plan on Affordable Energy
- Industrial Decarbonisation Accelerator Act
- Electrification Action Plan and European Grids Package
- New State Aid Framework
- Steel and metals action plan
- Chemicals industry package
- Strategic dialogue on the future of the European automotive industry and Industrial Action Plan
- Sustainable Transport Investment Plan
- European Port Strategy and Industrial Maritime Strategy
- High Speed Rail Plan
- Carbon Border Adjustment Mechanism Review
- Circular Economy Act
- Vision for Agriculture and Food
- Oceans Pact
- Amendment of the Climate Law

Global & Cross-sectorial Solutions

Competitive & Replicable Solutions

Customised & Flexible Solutions

EC Competitiveness Compass

Horizontal Enablers 5

Horizontal enablers

The Compass identifies five horizontal enablers to reinforce competitiveness across all sectors:

1. Simplification
2. Removing barriers in the Single Market
3. Financing
4. Skills and quality jobs
5. Better coordination

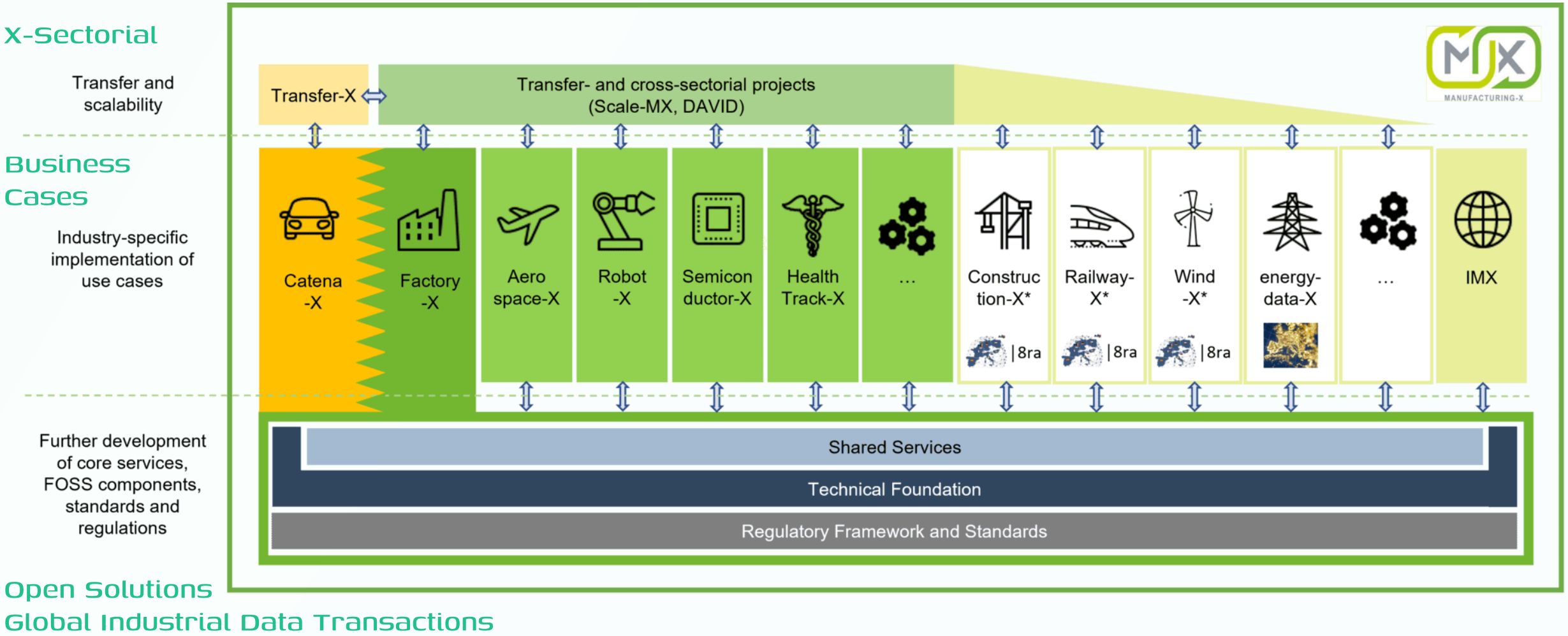
Flagship Actions

- Omnibus simplification and definition of small mid-caps
- European Business Wallet
- Single Market Strategy
- Revision of the Standardisation Regulation
- Savings and Investments Union
- Next MFF, including Competitiveness Fund and a Competitiveness Coordination Tool
- Union of Skills
- Quality jobs roadmap
- Skills Portability Initiative

Standardised Digital Industrial
Continuum Ecosystems at Scale

Global Cross-Sectorial Trusted Data Transactions &
AI Model Transparency & Efficiency

Multivendor Digital Networks &
Services Autonomy & Orchestration


X-Sectorial
Transfer and scalability
Transfer-X
Transfer- and cross-sectorial projects (Scale-MX, DAVID)
MANUFACTURING-X
Business Cases
Industry-specific implementation of use cases
Catena -X
Factory -X
Aero space-X
Robot -X
Semicon ductor-X
Health Track-X
…
Construc tion-X*
Railway-X*
Wind -X*
energy-data-X
…
IMX
8ra
8ra
8ra
Further development of core services, FOSS components, standards and regulations
Shared Services
Technical Foundation
Regulatory Framework and Standards
Open Solutions
Global Industrial Data Transactions

Industry Panel Agenda

Key Challenges and Trends in Decentralized ID, Data Sovereignty and DLT for Energy in Cloud-Edge-IoT

11.10-11.30 *Role of IMX, OPC-UA and DLT/privacy in Digital Product Passport for Industry4.0.*
Dr. Thomas Hahn (OPC FOUNDATION, INTERNATIONAL MANUFACTURING-X COUNCIL, SIEMENS AG) -
11:30-11:40 *Demand-side energy management and flexibility in French energy distribution.*
Mr. Mathieu Schumann (EDF)
11:40-11:50 *Standardising the Digital Twin: Manufacturing-X with Energy Use-Case.*
Dr. Mathias Bölke (IDTA, SCHNEIDER)
11:50-12:00 *Importance of Tamper-Proof Assets in Renewable Energy Communities and EV Battery Passport.*
Dr. Bernhard Peischl (AVL)
12:00- 12:10 - *DPP4.0 and the Asset Administration Shell.*
Max. Helmig (SIEMENS AG)

12:10-12:30 Panel and Q&A
Moderator: Ignacio Lacalle **Panellists:** Max Helmig, Dr. Mathias Bölke, Dr. Bernhard Peischl. Mr. Mathieu Schumann, Mr. Thomas Hahn, Dr. Oscar Lazaro.

CEI-Sphere
part of EUCloudEdgeIoT.eu

O-CEI

Digital ID management and data governance through emerging edge computing and DLT solutions

Joint Workshop organised by **O-CEI** and **CEI-Sphere** projects

Panel 12:10 – 12:30 CET

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