ConnectedFactories 2 CSA

GLOBAL-LEADING SMART MANUFACTURING THROUGH DIGITAL PLATFORMS, CROSS-CUTTING TECHNOLOGIES AND SKILLED WORKFORCE

ConnectedFactories 2 CSA

- **Pathways** to the industrial take-up of digital technologies and platforms in manufacturing
- Highlight state-of-the-art cases and cross-cutting issues
- Engage with EU and local ecosystems of manufacturing
- Ensure collaboration and synergy between **Industrial Platform projects**

Pathways

Pathways to the digitalisation of manufacturing

- Autonomous Smart Factories, Hyperconnected Factories, Collaborative Product-Service Factories refinement (CF1)

- Cybersecurity

- Artificial Intelligence

- Data Spaces

- Circularity

https://www.connectedfactories.eu/pathways-digitalisation-manufacturing

Data Spaces for Manufacturing Pathway

① No Data Control	② Data Silos	③ Data Bridges	④ Data Interoperability	⑤ Data Valorisation
Data are generated, processed and visualised by closed CPPS and I4.0 systems	(Smart Autonomous Factory) Data is locked in SCADA, MES, ERP enterprise applications	Ad-hoc Data Bridges are created between Enterprise Applications for specific purposes	Data Interoperability by design, standard data models and ontologies adoption	Data Economy take-up, Data-driven Innovative Business Models
Data are locked in Smart Products, Value Chains with limited access by external Users and Systems	(Collaborative Product-Service Factories) Data is locked in CAD, PDM, PLM enterprise applications	Data Integration and Security / Privacy issues are hardly addressed	FAIR Data Spaces enable AI-driven applications; Digital Assistants; VR/AR	Open Data Ecosystems in Didactic Factories and Experimental Facilities
	(Hyperconnected Factories) Data is locked in ERP SCM CRM enterprise applications	Heterogeneous Data Sources integrated on a case-by-case basis	Industrial Data Platforms for Data Processing and Sharing	Flexible cross-sector Manufacturing Data Marketplaces
			Data Governance models for Data Sovereignty / GDPR	Multi-stakeholder Digital Passports for complex Product-Service Systems

Circular Economy Pathway

Summary

- '[Digital Transformation Pathway Cases Catalogue and European demonstration Infrastructure](#)' has been populated with a significant number of use cases

- Central point of information to innovative technologies and the best practices in the field of digitalization in manufacturing

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Figure 4: Launch of the Digital Transformation Cases Catalogue