

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



No Data Control

Data are generated, processed and visualised by closed CPPS and I4.0 systems

Data are locked in Smart Products, Value Chains with limited access by external Users and Systems



Data Silos

(Smart Autonomous Factory) Data is locked in SCADA, MES, ERP enterprise applications

(Collaborative Product-Service Factories) Data is locked in CAD, PDM, PLM enterprise applications

(Hyperconnected Factories) Data is locked in ERP SCM CRM enterprise applications



Data Bridges

Ad-hoc Data Bridges are created between Enterprise Applications for specific purposes

Data Integration and Security / Privacy issues are hardly addressed

Heterogeneous Data Sources integrated on a case-by-case basis



Data Interoperability

Data Interoperability by design, standard data models and ontologies adoption

FAIR Data Spaces enable AI-driven applications; Digital Assistants; VR/AR

Industrial Data Platforms for Data Processing and Sharing

Data Governance models for Data Sovereignty / GDPR



Data Valorisation

Data Economy take-up, Data-driven Innovative Business Models

Open Data Ecosystems in Didactic Factories and Experimental Facilities

Flexible cross-sector Manufacturing Data Marketplaces

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

www.effra.eu

[Connected factories](http://www.connectedfactories.eu)

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



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Launch of the 'Digital Transformation Cases Catalogue': Call for cases

Following up on the rich content provided by the different past ConnectedFactories events, we are setting up a 'Digital Transformation Cases Catalogue'.

The goal is to bring together a set of inspiring and well-described cases in the catalogue, including the link to web pages, video's etc... where more information about the use case/demonstrator can be found. The first version of the catalogue will be launched in May and will be embedded within and supported by the functionalities of the [EFFRA Innovation Portal](http://www.effra.eu). The catalogue and newly available cases will be promoted

Figure 4: Launch of the Digital Transformation Cases Catalogue