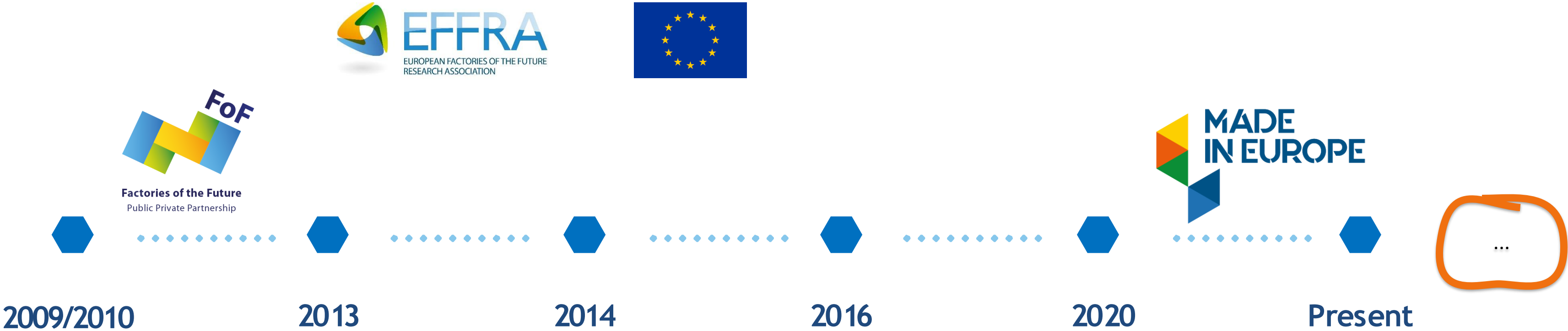


Made in Europe Partnership

10 July 2023



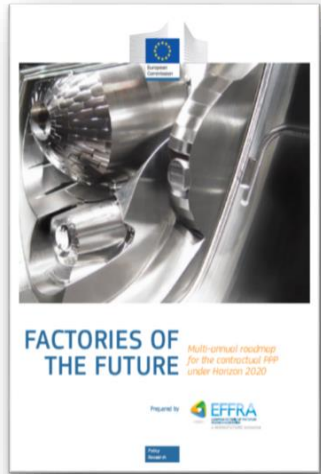
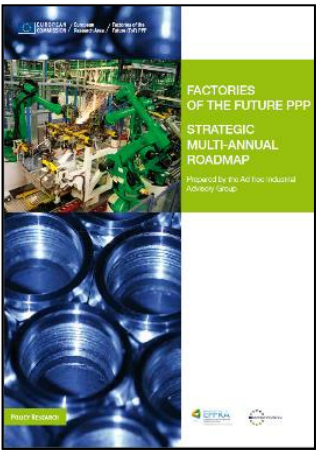
Made in Europe Partnership story line



FP7

FOF 2020

Factories 4.0 and Beyond



Factories of the Future Partnership - Made in Europe Partnership

[Mapped projects \(376\)](#) [Mapped results \(3\)](#) [Key content](#)



FP7 - Factories of the Future ➡

[\(150\)](#) [\(1\)](#)

FP7-FoF-2010 ➡

[\(25\)](#)

FP7-FoF-2011 ➡

[\(36\)](#)

FP7-FoF-2012 ➡

[\(37\)](#)

FP7-FoF-2013 ➡

[\(52\)](#)

H2020 - Factories of the Future ➡

[\(177\)](#) [\(1\)](#)

H2020-FoF-2014 ➡

[\(29\)](#)

H2020-FoF-2015 ➡

[\(28\)](#)

H2020-FOF-2016 ➡

[\(37\)](#)

H2020-FOF-2017 ➡

[\(23\)](#)

H2020-FoF-2018 ➡

[\(18\)](#)

H2020-FoF-2019 ➡

[\(20\)](#)

H2020-FoF-2020 ➡

[\(29\)](#)

Made in Europe (MiE) ➡

[\(49\)](#) [\(1\)](#)

HORIZON-CL4-2021-TWIN-TRANSITION-01 ➡

[\(26\)](#)

HORIZON-CL4-2022-TWIN-TRANSITION-01 ➡

[\(23\)](#)

HORIZON-CL4-2023-TWIN-TRANSITION-01 ➡

HORIZON-CL4-2024-TWIN-TRANSITION-01 ➡

MiE General objectives

Manufacturing competitiveness

Leadership & manufacturing excellence, generating new products and new markets

European Green Deal

Circular and climate-neutral manufacturing

An Economy that Works for People and SMEs

Attractive value added manufacturing jobs

A Europe Fit for the Digital Age

Digital transformation of manufacturing industry, trusted and robust

MiE Specific Objectives

- **Excellent, responsive and smart factories & supply chains**
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- **New integrated business, product-service and production approaches; new use models**
- **Human-centered and human-driven manufacturing innovation**

MiE Key Technologies and Enablers

- **Advanced smart material and product processing technologies, and process chains**
- **Smart mechatronic systems, devices and components**
- **Intelligent and autonomous handling, robotics, assembly and logistic technologies**
- **De-manufacturing, recycling technologies, and life-cycle analysis approaches**
- **Simulation and modelling (digital twins) covering the material processing level up to manufacturing system, and factory and value network level from design until recycling.**
- **Robust and secure industrial real-time communication technologies, and distributed control architectures and standardized equipment protocols**
- **Data analytics, artificial intelligence, machine learning and deployment of digital platforms for data management and sharing**
- **New business and new organisational approaches, including links with regulatory aspects such as safety, data ownership, and liability**
- **Skilled workforce**
- **Standards**

Made in Europe (MiE)

🔗 Mapped projects (49)

🔗 Mapped results (1)

Key content

Associate your results, demos, ...

Associate your projects

HORIZON-CL4-2021-TWIN-TRANSITION-01 →

🔗 (26)

- HORIZON-CL4-2021-TWIN-TRANSITION-01-01: AI enhanced robotics system for smart manufacturing (IA)

🔗 (4)
- HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (IA)

🔗 (6)
- HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (RIA)

🔗 (4)
- HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio-based materials (RIA)

🔗 (6)
- HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (IA)

🔗 (3)
- HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (IA)

🔗 (3)

HORIZON-CL4-2022-TWIN-TRANSITION-01 →

🔗 (23)

- HORIZON-CL4-2022-TWIN-TRANSITION-01-01: Rapid reconfigurable production process chains (IA)

🔗 (3)
- HORIZON-CL4-2022-TWIN-TRANSITION-01-02: Products with complex functional surfaces (RIA)

🔗 (5)
- HORIZON-CL4-2022-TWIN-TRANSITION-01-03: Excellence in distributed control and modular manufacturing (RIA)

🔗 (4)
- HORIZON-CL4-2022-TWIN-TRANSITION-01-04: Intelligent work piece handling in a full production line (RIA)

🔗 (4)
- HORIZON-CL4-2022-TWIN-TRANSITION-01-06: ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2) (IA)

🔗 (2)
- HORIZON-CL4-2022-TWIN-TRANSITION-01-07: Digital tools to support the engineering of a Circular Economy (RIA)

🔗 (5)

HORIZON-CL4-2023-TWIN-TRANSITION-01 →

- HORIZON-CL4-2023-TWIN-TRANSITION-01-02: High-precision OR complex product manufacturing – potentially including the use of photonics
- HORIZON-CL4-2023-TWIN-TRANSITION-01-04: Factory-level and value chain approaches for remanufacturing
- HORIZON-CL4-2023-TWIN-TRANSITION-01-07: Achieving resiliency in value networks through modelling and Manufacturing as a Service
- HORIZON-CL4-2023-TWIN-TRANSITION-01-08: Foresight and technology transfer for Manufacturing As A Service

HORIZON-CL4-2024-TWIN-TRANSITION-01 →

- HORIZON-CL4-2024-TWIN-TRANSITION-01-01: Bio-intelligent manufacturing industries
- HORIZON-CL4-2024-TWIN-TRANSITION-01-03: Manufacturing as a Service: Technologies for customised, flexible, and decentralised production on demand
- HORIZON-CL4-2024-TWIN-TRANSITION-01-05: Technologies/solutions to support circularity for manufacturing

HORIZON-CL4-2021-TWIN-TRANSITION-01 →

↔ (26)

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(26)

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HORIZON-CL4-2022-TWIN-TRANSITION-01 →

(23)

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Made in Europe 2023-2024 Calls

On the 6th December 2022, the European Commission officially adopted the main Horizon Europe Work Programme 2023-2024. In this context, the call topics under Cluster 4 (and therein, under the Made in Europe programme) were made available. You can consult the [work programme here](#).

While the 2023 Made in Europe Call has closed, the 2024 call topics are available through the [Funding & Tenders Portal](#). Below, you may find below the topics and their respective deadlines for the submission of proposals:

- [HORIZON-CL4-2024-TWIN-TRANSITION-01-03: Manufacturing as a Service: Technologies for customised, flexible, and decentralised production on demand](#) – Open on 19th April 2023 and closed on 7th February 2024
- [HORIZON-CL4-2024-TWIN-TRANSITION-01-05: Technologies/solutions to support circularity for manufacturing](#) – Open on 19th April 2023 and closed on 7th February 2024
- [HORIZON-CL4-2024-TWIN-TRANSITION-01-01: Bio-intelligent manufacturing industries](#) – Open on 19th April 2023, closing of first stage on 7th February 2024, and closing of second stage on 24th September 2024

Examples of relevant past/ongoing projects

Toggle all information ▼



Circular
TwAIIn

Circular TwAIIn | AI Platform for Integrated Sustainable and Circular Manufacturing

01-07-2022 - 30-06-2025

👁: 3

Show more information ▼



s-X-AIPI | self-X Artificial Intelligence for European Process Industry digital transformation

01-05-2022 - 30-04-2025

👁: 4

Show more information ▼



AIDEAS | AI Driven industrial Equipment product life cycle boosting Agility, Sustainability and resilience

01-10-2022 - 30-09-2025

Show more information ▼

HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (IA)



Examples of relevant past/ongoing projects

Toggle all information ▼



DiCiM | Digitalised Value Management for Unlocking the potential of the Circular Manufacturing Systems with integrated digital solutions

01-01-2023 - 31-12-2026

Show more information ▼



DaCapo | Digital assets and tools for Circular value chains and manufacturing products

01-01-2023 - 30-06-2026

Show more information ▼



CIRC-UITs

CIRC-UITs | Circular Integration of independent Reverse supply Chains for the smart reUse of IndusTrially relevant Semiconductors

01-01-2023 - 31-12-2025

Show more information ▼



ALICIA | Assembly Lines In Circulation – smart digital tools for the sustainable, human-centric and resilient use of production resources

01-01-2023 - 31-12-2025

Show more information ▼



AUTO-TWIN | Data-driven method based on a process mining approach for Automated Digital Twin generation, operations, and maintenance in circular value chains

01-12-2022 - 30-11-2025

Show more information ▼

HORIZON-CL4-2022-TWIN-TRANSITION-01-07: Digital tools to support the engineering of a Circular Economy (RIA)

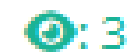
Examples of relevant past/ongoing projects

Toggle all information ▼



AMBIANCE | Advanced Manufacturing of Bio-Based Products for Urban outdoor applications through Innovative characterization, digital technologies and circular approach

01-06-2022 - 31-05-2026



Show more information ▼



Waste2BioComp | Converting organic waste into sustainable bio-based components

01-06-2022 - 31-05-2025

Show more information ▼



BIO-UPTAKE | BIOcomposites in smart plastic transformation processes to pave the way for the large-scale UPTAKE of sustainable bio-based products

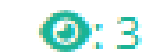
01-12-2022 - 31-05-2026

Show more information ▼



GREEN-LOOP | Sustainable manufacture systems towards novel bio-based materials

01-09-2022 - 31-08-2025



Show more information ▼



VITAL | InnoVative processing Technologies for bio-based foAmed thermopLastics

01-06-2022 - 31-05-2025

Show more information ▼



NewWave | Building a sustainable & circular economy through innovative, biobased manufacturing lines

01-04-2022 - 31-03-2026

Show more information ▼

HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio-based materials (RIA)



EUROPEAN FACTORIES OF THE FUTURE
RESEARCH ASSOCIATION

Examples of relevant past/ongoing projects

Toggle all information ▼



European Factory Platform

EFPP (European Factory Platform) | European Connected Factory Platform for Agile Manufacturing

01-01-2019 - 31-12-2022

🌱: 39 | 👁: 5

Show more information ▼




QU4LITY

QU4LITY | Digital Reality in Zero Defect Manufacturing

01-01-2019 - 31-07-2022

🌱: 77 | 👁: 15

Show more information ▼



ZERO DEFECTS Manufacturing Platform ZDMP

ZDMP | Zero Defect Manufacturing Platform

01-01-2019 - 30-06-2023

🌱: 89 | 👁: 10

Show more information ▼



KYKLOS 4.0

KYKLOS 4.0 | An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

01-01-2020 - 31-12-2023

🌱: 33 | 👁: 7

Show more information ▼



DigiPrime

DigiPrime | Digital Platform for Circular Economy in Cross-sectorial Sustainable Value Networks

01-01-2020 - 31-12-2023

🌱: 20 | 👁: 3

Show more information ▼




SHOP4CF

SHOP4CF | Smart Human Oriented Platform for Connected Factories

01-01-2020 - 31-12-2023

🌱: 32 | 👁: 4

Show more information ▼



CONNECTED FACTORIES

ConnectedFactories 2 | Global-leading smart manufacturing through digital platforms, cross-cutting factors and skilled workforce

01-12-2019 - 30-11-2022

🌱: 23

Show more information ▼

DT-ICT-07-
2018-2019
Digital
Manufacturing
Platforms for
Connected
Smart Factories



MiE General objectives

Manufacturing competitiveness

Leadership & manufacturing excellence, generating new products and new markets

European Green Deal

Circular and climate-neutral manufacturing

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Digital transformation of manufacturing industry, trusted and robust

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- **New business and new organisational approaches, including links with regulatory aspects such as safety, data ownership, and liability**
- **Skilled workforce**
- **Standards**

Portfolio analysis - allocation of MiE call topics to SRIA R&I Objectives



Specific Objective 1: Excellent, responsive and smart factories & supply chains



↩ (36)

R&I Objective 1.1: Data 'highways' and data spaces in support of smart factories in dynamic value networks



↩ (3)

R&I Objective 1.2: Scalable, reconfigurable and flexible first-time right manufacturing



↩ (14)

R&I Objective 1.3: Zero-defect and zero-downtime high-precision manufacturing, including predictive quality and non-destructive inspection methods



↩ (10)

R&I Objective 1.4: Artificial intelligence for productive, excellent, robust and agile manufacturing chains - Predictive manufacturing capabilities & logistics of the future



↩ (7)

R&I Objective 1.5: Advanced Manufacturing processes for smart and complex products



↩ (8)

R&I Objective 1.6: Manufacturing for miniaturisation and functional Integration



↩ (9)

Specific Objective 2: Circular products & Climate-neutral manufacturing



↩ (20)

R&I Objective 2.1: Ultra-efficient, low energy and carbon-neutral manufacturing



↩ (6)

R&I Objective 2.2: De-manufacturing, re-manufacturing and recycling technologies for circular economy



↩ (8)

R&I Objective 2.3: Manufacturing with new and substitute materials



↩ (6)

R&I Objective 2.4: Virtual end-to-end life-cycle engineering and manufacturing from product to production lines, factories, and networks



↩ (5)

R&I Objective 2.5: Digital platforms and data management for circular product and production-systems life-cycles



↩ (8)

Specific Objective 3: New integrated business, product-service and production approaches; new use models



↩ (8)

R&I Objective 3.1: Collaborative product-service engineering for customer driven manufacturing value networks



↩ (5)

R&I Objective 3.2: Manufacturing processes and approaches near to customers or consumers (including urban manufacturing)



R&I Objective 3.3: Transparency, trust and data & IP integrity, open systems and cyber security along the product and manufacturing life-cycle



↩ (8)

Specific Objective 4: Human-centered and human-driven manufacturing innovation



↩ (14)

R&I Objective 4.1: Digital platforms and engineering tools supporting creativity and productivity of manufacturing development



↩ (5)

R&I Objective 4.2: Improving human device interaction using augmented and virtual reality and digital twins

R&I Objective 4.3: Human & technology complementarity and excellence in manufacturing



↩ (7)

R&I Objective 4.4: Manufacturing Innovation and change management

R&I Objective 4.5: Technology validation and migration paths towards industrial deployment of advanced manufacturing technologies by SMEs



↩ (2)

WP 25-27 EFFRA Consultation - Priorities - Made in Europe and inclusive productivity: doing better (creating more added value) with less

- **Excellent productive and flexible Manufacturing automation for open strategic autonomy**
- **Sustainable value network resilience** and competitiveness through robust and flexible production technologies
- Recovering and preserving the European leadership in **strategic and high value-added products**
- **Circular, connected manufacturing ecosystems**
- The next level of circular economy through **scalable, highly productive and zero-defect re-manufacturing technologies**
- **Manufacturing with new/ limited raw materials availability**
- Solutions for **energy-efficiency** for realising net-zero discrete manufacturing processes and value chains
- **Quick response service deployment for maintaining optimal manufacturing operations using trusted AI and digital twins**
- **Life-cycle management of manufacturing solutions** and associated services for flexible, **productive and sustainable** manufacturing industry
- **Data spaces and cloud/edge solutions for responsive and robust manufacturing**
- **Digitally enabled compliance and integration** of innovative manufacturing solutions
- **Understanding the transformation of the factory work and organisation**
- **Physical and cognitive augmentation of human capabilities for inclusive and socially sustainable manufacturing**
- **Digitally enabled upskilling, qualification and job transformation**
- **Bio-intelligent Manufacturing**

CONSULTATION MADE IN EUROPE WP 25-27 (EXPERT/STAKEHOLDER PERSPECTIVE)

CONSULTATION MADE IN EUROPE CONSULTATION WP 25-27 (PROJECT PERSPECTIVE)

Consultation Made in Europe WP 25-27 - Expert/stakeholder perspective

This page concerns the **consultation on the Work Programme 25-27 of the Horizon Europe Programme** with respect to manufacturing research & innovation, in particular with regard to the **Made in Europe Partnership**.

More background to this consultation can be found [here](#).

Please note that there is **also a consultation where feedback is requested from the perspective of past or ongoing projects** (see [here](#)).

Via this consultation, **you are invited as an experts/stakeholder to comment and rate (in terms of importance) the suggested priorities for the WP 25-27** that are described [in this document](#).

Your prioritisation and comments would address observations such as:

- Which priorities are key for the work programme 25-27? You can express the importance of the priorities by rating them from 0 to 100 in steps of 10.
- Please add comments to explain why a priority matters in order to generate impact on the competitiveness and sustainability of Manufacturing in Europe.
- If the R&I Objectives were only partially addressed in the past, **please describe which aspects should be addressed more specifically** in the next work programme.

Please also note that:

- For this consultation, **your answer to the consultation is publicly available via your profile page** on the EFFRA Innovation portal.
- You can edit and refine your input at any time. You just need to save the comments when you edit your response. There is no 'final submission button'.

Access to the consultation:

First, please make sure that you are logged in on the EFFRA Innovation Portal (<https://portal.effra.eu>).

Consultation Made in Europe WP 25-27- Projects' perspective

More background to the consultations in preparation of the Made in Europe Partnership can be found [here](#).

This page concerns the track that focusses on obtaining information from the **project's perspective**.

The guidance regarding the **consultation from the expert/stakeholder perspective** can be found [here](#).

The suggested priorities for the WP 25-27 that are described [in this document](#) have been included in a taxonomy list on the EFFRA Innovation Portal.

Project representatives are requested to provide the following feedback:

- **indicate the priorities to which your project has contributed most.** Please only indicate the items that are really relevant (You can use the rating bar to indicate differences in the relevance)
- please add a comment that explains briefly:
 - **what the project has contributed essentially**
 - **which future developments are in particular necessary, drawing from the (expected) outcome of your project**

Please note that the information that is provided by the projects is made publicly available via the respective project pages on the EFFRA Innovation Portal. Also, you can add and edit feedback in several steps, the list and editing permissions will stay available.

If you wish to include and promote other projects (also national and regional projects) on the EFFRA Innovation Portal, then please let us know.

Please see the screenshot of a project page here below - the edit buttons are only available to these users that have editing permissions on the project.

► Images

Ongoing consultation

Mapping projects to the priorities of the consultation document

Structured Wiki / Consultation - MiE 25-27 Priorities

Consultation - MiE 25-27 Priorities

Mapped projects (102)

- Sustainable value network resilience and competitiveness through robust and flexible production technologies (41)
- Excellent productive and flexible Manufacturing automation (62)
- Recovering and preserving the European leadership in strategic technologies (42)
- Circular, connected manufacturing ecosystems (22)
- The next level of circular economy through scalable, highly productive and zero-defect re-manufacturing technologies (12)
- Manufacturing with new/ limited raw materials availability (9)

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Projects
Results, demos etc.
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People & organisations

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Search for organisation
Label
Sort by
Relevance
Select Sort order
Search

Factories of the Future Partnership - Made in Europe Partnership
Project clusters
▼ Show additional filters

Selected filters: [clear filter](#)
Sort by: Relevance | Consultation - MiE 25-27 Priorities: Show in overview | Consultation - MiE 25-27 Priorities: Consultation - MiE 25-27 Priorities

Showing 1 to 30 of 102 results
Previous 1 2 3 4 Next

Toggle all information ▲

COLLABS | A Comprehensive cyber-intelligence framework for resilient coLLABorative manufacturing Systems
01-01-2020 - 31-12-2022
🌱: 25 | 👁: 3

Show more information ▲

Consultation - MiE 25-27 Priorities

Sustainable value network resilience and competitiveness through robust and flexible production technologies	_____
Excellent productive and flexible Manufacturing automation for open strategic autonomy	_____

EnerMan | ENERGY-efficient manufacturing system MANagement
01-01-2021 - 31-12-2023
🌱: 28 | 👁: 1

Show more information ▲

Consultation - MiE 25-27 Priorities

Solutions for energy-efficiency for realising net-zero discrete manufacturing processes and value chains	_____
Quick response service deployment for maintaining optimal manufacturing operations using trusted AI and digital twins	_____

AIDEAS | AI Driven industrial Equipment product life cycle boosting Agility, Sustainability and resilience
01-10-2022 - 30-09-2025

Show more information ▲

Consultation - MiE 25-27 Priorities

Sustainable value network resilience and competitiveness through robust and flexible production technologies	_____
Circular, connected manufacturing ecosystems	_____
The next level of circular economy through scalable, highly productive and zero-defect re-manufacturing technologies	_____

Made in Europe Progress monitoring

Mapping demonstrators and project actions on MiE KPIs

Projects / CONVERGING / MiE KPIs

CONVERGING mapped on MiE KPIs


MiE KPI section - Impacts


Demonstrating showcasing the realisation of new resilient value chains


Demonstrator showcasing the realisation of new innovative circular value chains


Demonstrator showcasing human and technology complementarity

Results:

 Autonomous tooling and inspection repair with mobile robots - FORD

 AI enabled dexterous assembly operations - ELECTROLUX

 Smart collaborative solutions for hazardous area inspection - IAI

 Human robot collaborative processing of Additive Manufactured produced parts - PRIMA

Demonstrator targeting the training the workforce in new technologies


Demonstrator showcasing digital platforms


MiE KPI section - Outcomes

Demonstrator showcasing an increased uptake of green manufacturing

Reduced scrap rate through zero defect and zero downtime manufacturing - demonstrator showcases reduction by 20%


Results:


 Autonomous tooling and inspection repair with mobile robots - FORD

 AI enabled dexterous assembly operations - ELECTROLUX

Reduction of time needed for defect identification & finishing showcased by demonstrator (in % reduction)

Results:

 Autonomous tooling and inspection repair with mobile robots - FORD

 Smart collaborative solutions for hazardous area inspection - IAI

Demonstrator showcasing the uptake of de-manufacturing, re-manufacturing and recycling technologies for more efficient

MiE KPI section - Resources

Knowledge-sharing and networking activity (Conference, event, workshop)

Support and engagement activities at national and local levels

Cooperation with other initiatives & partnerships

Promoting the demonstrators and exploitable technologies



23.03.2023 0

Share



Collaborative robotics land in European factories

Sharework and SHERLOCK are two projects funded through Factories of the Future, EFFRA's partnership with the European Commission on manufacturing. Together, they provide validated solutions for a safe fenceless implementation of robots working hand in hand with workers in industrial shopfloors

At its core and through its partnerships with the European Commission, [Made in Europe](#) and its predecessor [Factories of the Future](#), the European Factories of the Future Research Association (EFFRA) is tackling shared technological challenges such as collaborative robotics. Promoting precompetitive research and encouraging the collaboration between diverse international stakeholders at the industry and research levels, [EFFRA](#) is addressing all aspects of manufacturing, from sustainability and efficiency to digitalization and human aspects; many of these demonstrators, use cases, and exploitable results, can be consulted by accessing [EFFRA's Innovation Portal](#), where we encourage all innovation actors to promote their work.



Toggle all information ▲



SEAT S.A – Automotive Industrial Scenario - Operator collaborative support on assembling/disassembling car body heavy ...



Project: SHAREWORK

Type: /

Updated at: 01-02-2023

Show more information ▲

Project acronym **SHAREWORK**



CEMBRE – Metal Industrial Scenario - Human-Robot Collaboration (HRC) at the load/unload stations of logistic manufactu...



Project: SHAREWORK

Type: /

Updated at: 01-02-2023

Show more information ▲

Project acronym **SHAREWORK**



ALSTOM – Railway Industrial Scenario - Human-Robot Collaboration to improve trains' manufacturing processes



Project: SHAREWORK

Type: /

Updated at: 01-02-2023

Show more information ▲

Project acronym **SHAREWORK**



Goizper Group – Capital Goods Scenario - Human-Robot collaboration (HRC) for operator's assistance on intermittent ind...



Project: SHAREWORK

Type: /

Updated at: 01-02-2023

Show more information ▲

Project acronym **SHAREWORK**

Significant innovations, exploitable results and lessons learned, training aspects

Mapped projects (73) Mapped results (92) Mapped demos (52) Key content

Added value - impact - value proposition

(16) (19) (18)

Key exploitable Result(s)

(1)

Significant innovations and achievements

(48) (31) (14)

Significance of the results for SMEs

(20) (25) (6)

Lessons learned

(27) (47) (45)

Gaps and challenges that should still be addressed

(1)

Specific use case requirements

(20) (13) (4)

General information about pilots and demonstrations


(12) (5)


Requirements regarding skills, training and associated

(22) (11) (3)

Highlighting significant innovations, lessons learned...

UTC Pilot: On-the-job Learning


FACTORY2FIT

Project: Factory2Fit
Type: 
Updated at: 04-10-2022

ion ▲


ns, exploitable results and lessons learned, training aspects


impact - value proposition

✓ 

osed solution, access to expert knowledge is granted to
s registered to the platform. What is more, supervisors are
training courses to specific technicians for improving their

Prima Power Pilot - Social Media Platform -
Engaging worker participation and knowledge
sharing


FACTORY2FIT

Project: Factory2Fit
Type: 
Updated at: 04-10-2022

Show more information ▲

Significant innovations, exploitable results and lessons learned, training aspects


Added value - impact - value proposition

✓ 

Comment:

SoMeP emphasizes in improving collaboration and communication
between technicians and promotes knowledge sharing, and practices. In
the long-term SoMeP can be used both as a communication channel and
information exchange hub, but also as a valuable knowledge repository as
well as an educational system.

Prima Power F
Dashboard - E
well-being and

FACTORY2FIT

Show more information ▲


Significant innovations, exploitable results and


Added value - impact - value propos

Comment:

The proposed solution aims at raising
employees recognize their strengths,
In the long term, the application can
working habits.

Continental Pilot - Task Distribution Engine -
Multi-criteria dynamic task prioritization and
scheduling


FACTORY2FIT

Project: Factory2Fit
Type: 
Updated at: 04-10-2022

ion ▲


ns, exploitable results and lessons learned, training aspects


impact - value proposition

✓ 

generation of optimized production plans while the waiting

COMAU Pilot: Workplace optimization and
operator mental support


HuMan
HUMAN MANUFACTURING

Project: HUMAN
Type: 
Updated at: 04-10-2022

Show more information ▲

Significant innovations, exploitable results and lessons learned, training aspects


Added value - impact - value proposition

✓ 

Comment:

Thanks to the use of HUMAN technology, COMAU assembly lines are more
flexible to the anthropometric, physical and cognitive needs of the

SCM Use Case
machines

INCLUSIVE

Show more information ▲

Significant innovations, exploitable results and

Added value - impact - value propos

Comment:

The use of the INCLUSIVE HMI leads t
time required. For the second use ca

www.connectedfactories.eu

<https://portal.effra.eu>

HOME

ABOUT

CROSS-CUTTING FACTORS

PATHWAYS

SHARE CASES

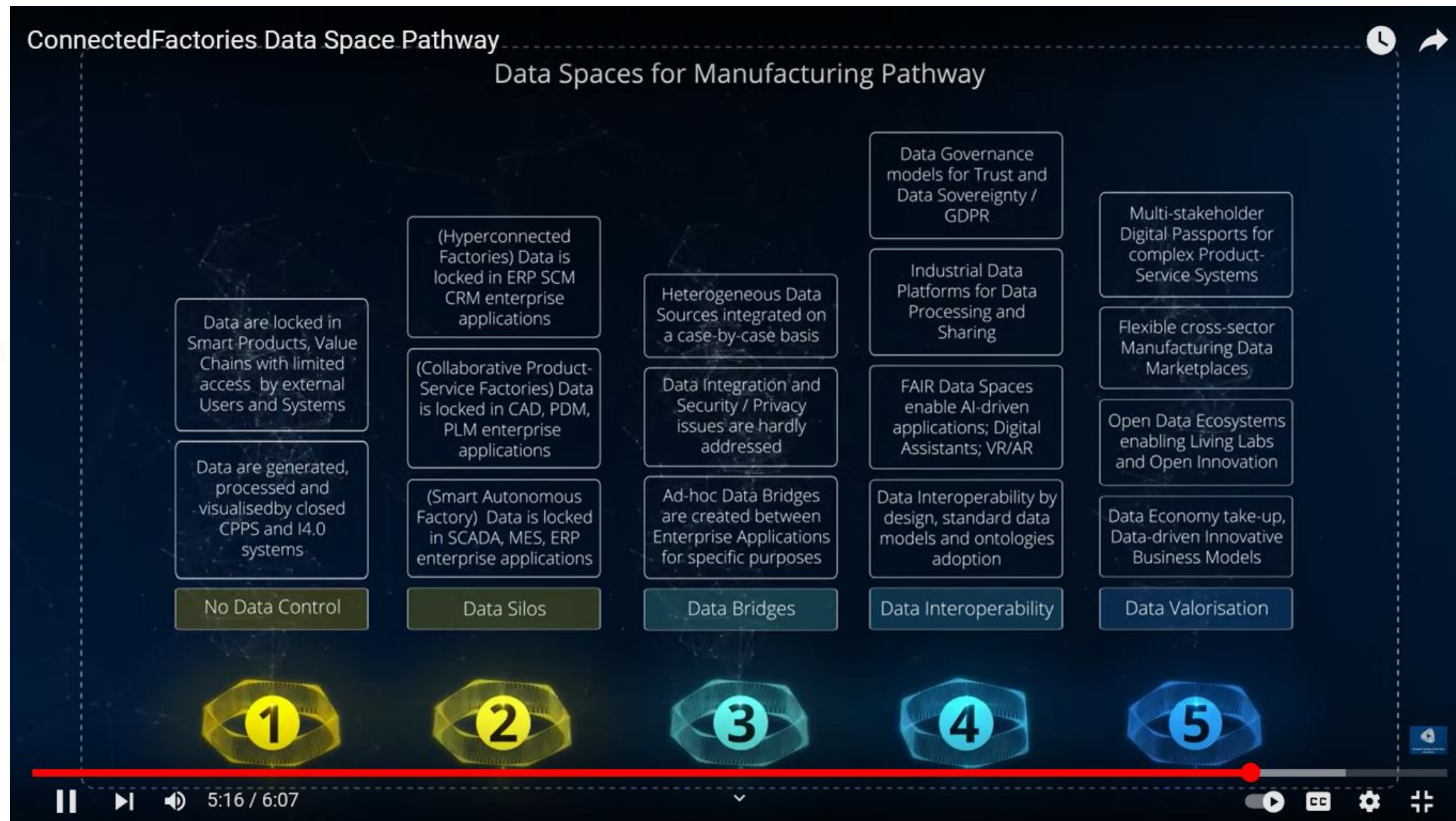
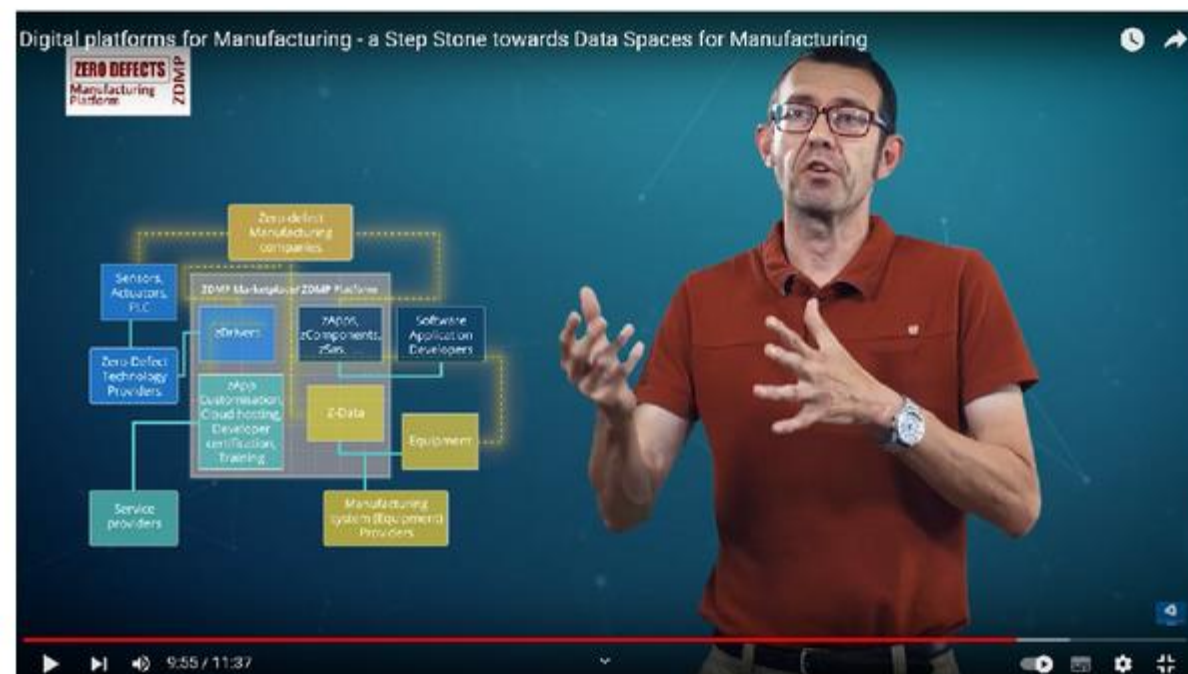
Data Space Pathway

Have a look at the Data Space Pathway Introduction Video here below!



(We recommend viewing in HD. Click on YouTube or [click here to view on YouTube](#))

Also check out the Digital Platforms Use Cases Video, showcasing the step stones to implementing Data Spaces in Manufacturing



Data Spaces for Manufacturing Pathway

1

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

2

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

3

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

4

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 Trust and Data Sovereignty / GDPR

5

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

Pathway to Energy Efficiency



For DENiM it is about defining the pathway for energy efficiency
using digital technologies

01

Limited visibility of Energy Performance *Awareness*

02

Process Level Energy Performance
Monitoring *Sense*

03

Energy Performance Insight *Learn*

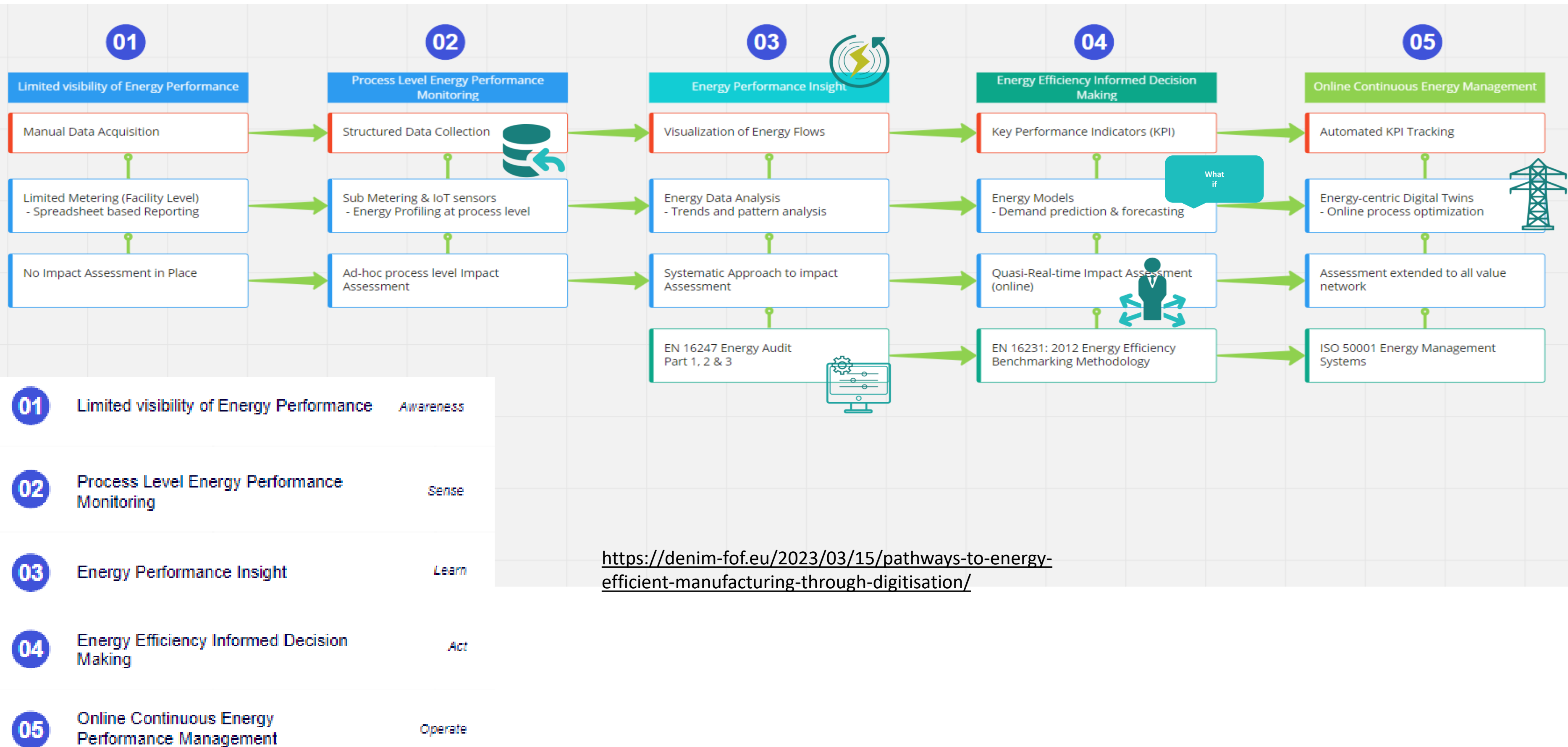
04

Energy Efficiency Informed Decision
Making *Act*

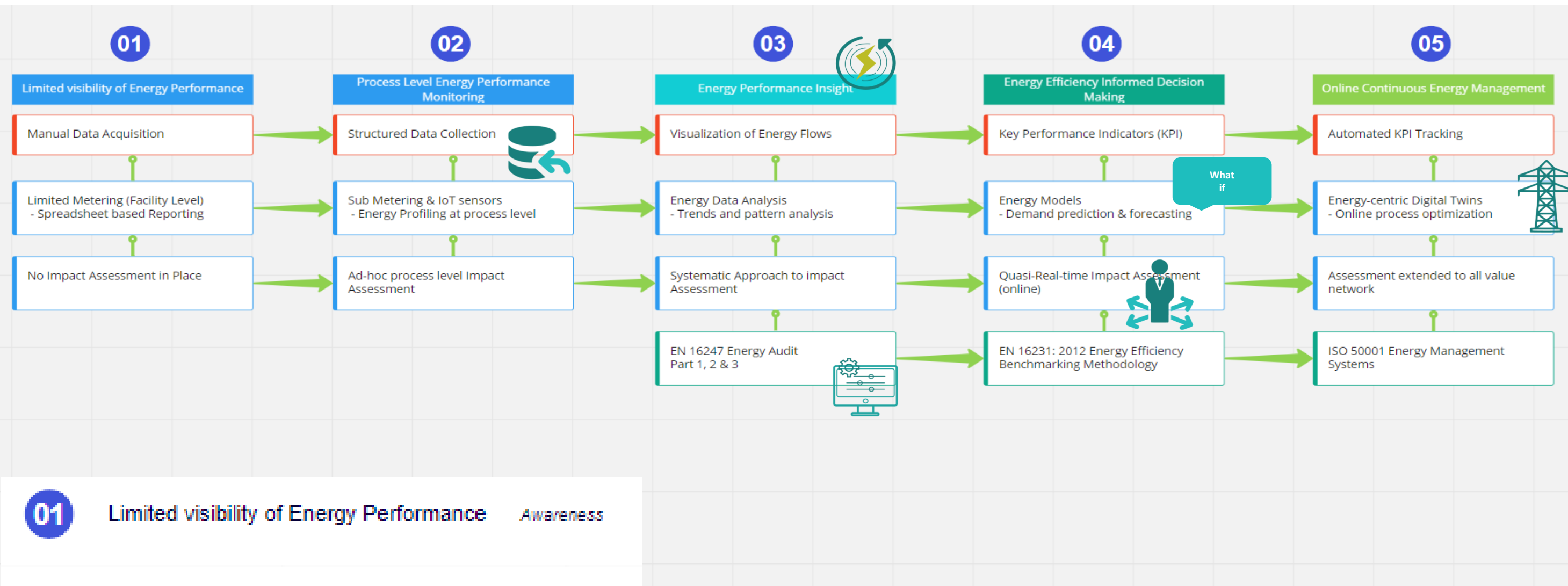
05

Online Continuous Energy
Performance Management *Operate*

For DENiM it is about defining the pathway for energy efficiency using digital technologies

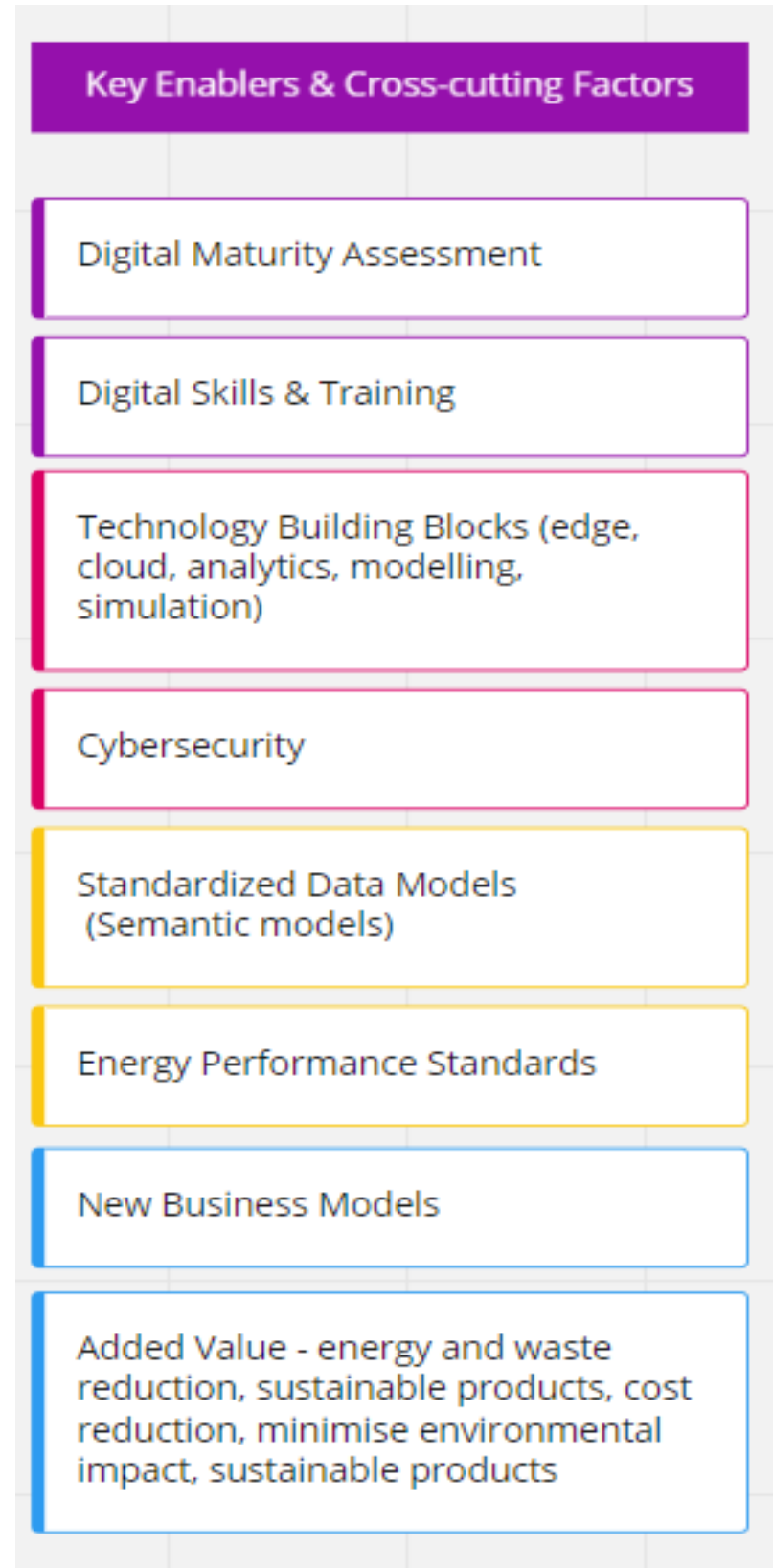


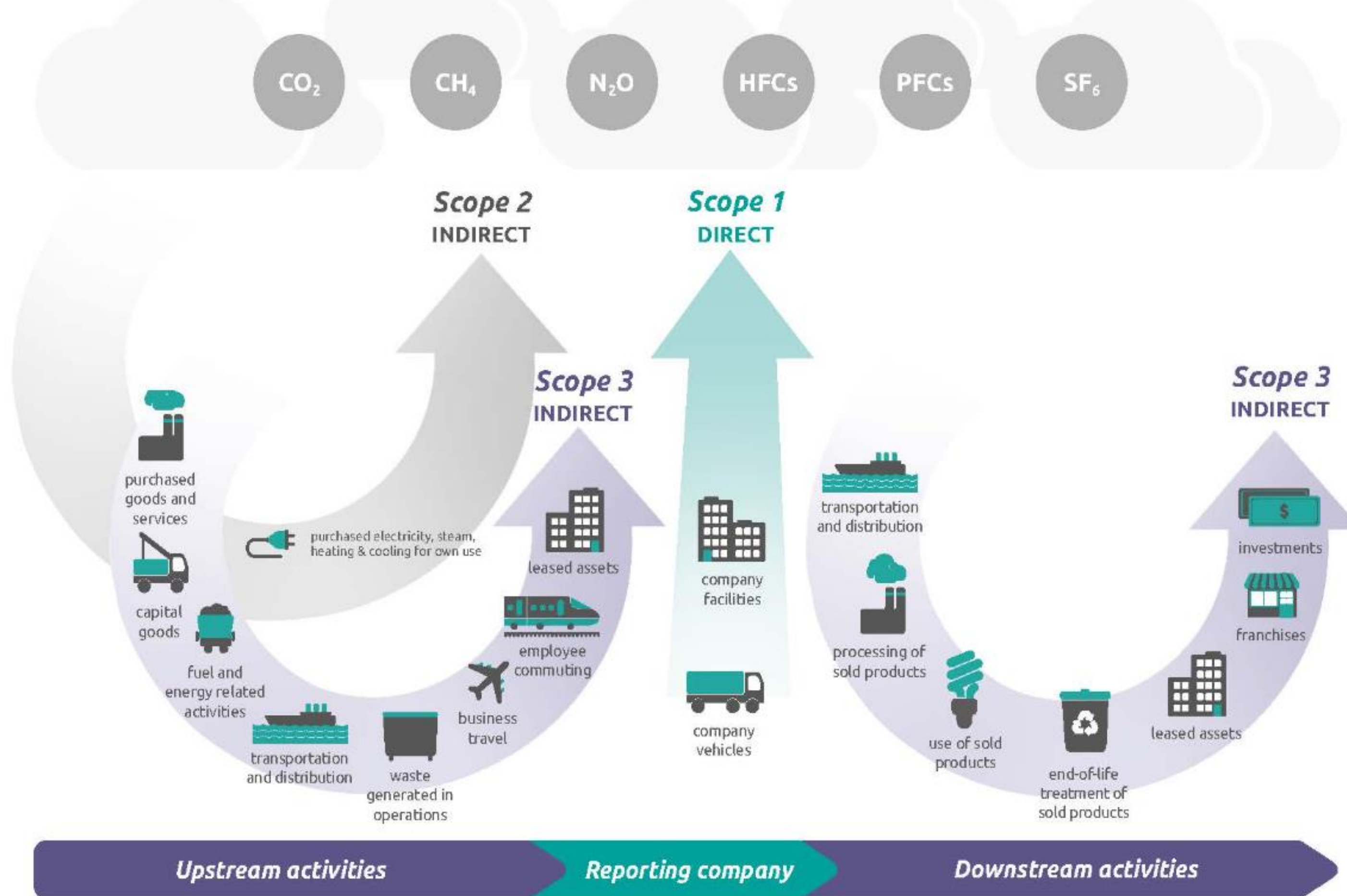
For DENiM it is about defining the pathway for energy efficiency using digital technologies



01	Limited visibility of Energy Performance	Awareness
02	Process Level Energy Performance Monitoring	Sense
03	Energy Performance Insight	Learn
04	Energy Efficiency Informed Decision Making	Act
05	Online Continuous Energy Performance Management	Operate

<https://denim-fof.eu/2023/03/15/pathways-to-energy-efficient-manufacturing-through-digitisation/>





Examples of relevant past/ongoing projects

Toggle all information ▼



RE4DY | European Data as a PProduct Value Ecosystems for Resilient Factory 4.0 Product and ProDUCTION Continuity and Sustainability

01-06-2022 - 31-05-2025

Show more information ▼



Zero-SWARM | ZERO-ENABLING SMART NETWORKED CONTROL FRAMEWORK FOR AGILE CYBER PHYSICAL PRODUCTION SYSTEMS OF SYSTEMS

01-06-2022 - 30-11-2024

Show more information ▼



5G-TIMBER | Secure 5G-Enabled Twin Transition for Europe's TIMBER Industry Sector

01-06-2022 - 31-05-2025

Show more information ▼

HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (IA)



Examples of relevant past/ongoing projects

Toggle all information ▼



i4Q | Industrial Data Services for Quality Control in Smart Manufacturing

01-01-2021 - 31-12-2023

: 32

Show more information ▼



InterQ | Interlinked Process, Product and Data Quality framework for Zero-Defects Manufacturing

01-11-2020 - 31-10-2023

: 11

Show more information ▼

DATAZERO

DAT4.ZERO | Data Reliability and Digitally-enhanced Quality Management for Zero Defect Manufacturing in Smart Factories and Ecosystems

01-10-2020 - 31-03-2024

: 5

Show more information ▼

OPTIMAI

OPTIMAI | Optimizing Manufacturing Processes through Artificial Intelligence and Virtualization

01-01-2021 - 31-12-2023

: 20

Show more information ▼

DT-FOF-11-2020 Quality control in smart manufacturing (IA)

Toggle all information ▼

**LIAA | Lean Intelligent Assembly Automation**

02-09-2013 - 01-09-2017

🌱: 10 | 👁: 2

Show more information ▼

**COMPOSITION | Ecosystem for Collaborative Manufacturing Processes _ Intra- and Interfactory Integration and Automation**

01-09-2016 - 31-08-2019

🌱: 157 | 👁: 7

Show more information ▼

**FAR-EDGE | Factory Automation Edge Computing Operating System Reference Implementation**

01-10-2016 - 30-10-2019

🌱: 70 | 👁: 17

Show more information ▼

**A4BLUE | Adaptive Automation in Assembly For BLUE collar workers satisfaction in Evolvable context**

01-10-2016 - 30-09-2019

🌱: 15 | 👁: 4

Show more information ▼

**Daedalus | Distributed control and simulation platform to support an Ecosystem of Digital Automation developers**

01-10-2016 - 30-09-2019

🌱: 27 | 👁: 10

Show more information ▼

**DIGICOR | Decentralised Agile Coordination Across Supply Chains**

01-10-2016 - 30-09-2019

🌱: 42

Show more information ▼

**AUTOWARE | Wireless Autonomous, Reliable and Resilient Production Operation ARchitecture for Cognitive Manufacturing**

01-10-2016 - 30-09-2019

🌱: 60 | 👁: 1

Show more information ▼

**AREUS | Automation and Robotics for European Sustainable manufacturing**

01-09-2013 - 31-08-2016

🌱: 10 | 👁: 3

Show more information ▼

**FACTORY-ECOMATION | Factory ECO-friendly and energy efficient technologies and adaptive automation solutions**

01-10-2012 - 30-09-2015

🌱: 3

Show more information ▼

**SatisFactory | A collaborative and augmented-enabled ecosystem for increasing SATISfaction and working experience in smart FACTORY environments**

01-01-2015 - 31-12-2017

🌱: 75 | 👁: 29

Show more information ▼

**Factory2Fit | Empowering and participatory adaptation of factory automation to fit for workers**

01-10-2016 - 30-09-2019

🌱: 46 | 👁: 9

Show more information ▼

**SCALABLE4.0 | Scalable automation for flexible production systems**

01-01-2017 - 30-06-2020

🌱: 22 | 👁: 9

Show more information ▼

**INCLUSIVE | Smart and adaptive interfaces for INCLUSIVE work environment**

01-10-2016 - 30-09-2019

🌱: 43 | 👁: 3

Show more information ▼

**HUMAN | HUman MANufacturing**

01-10-2016 - 30-09-2019

🌱: 30 | 👁: 3

Show more information ▼

**MANUWORK | Balancing Human and Automation Levels for the Manufacturing Workplaces of the Future**

01-10-2016 - 31-03-2020

🌱: 26 | 👁: 3

Show more information ▼



and what are

Lump Sum Funding in Horizon Europe

17.03.2023 0 EFFRA

oes it work

THANK YOU

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