Leading the way forward in European industrial innovation



Željko Pazin, Director













Input Collection

Dissemination



Community **Building**





1000 + EVENTS

20 + COUNTRIES INVOLVED



2.3+ billion Eur INVESTED IN MANUFACT INNOVATION (& ONGOING)



200+ MEMBERS & GROWING





10,000 + NETWORK







15+ YEARS COLLABORATION WITH INDUSTRY & THE EC

About EFFRA

The European Factories of the Future Research Association (EFFRA) is an industry-led research organisation driving pioneering advancements in manufacturing technology across **Europe**. Representing the private sector in the European Union's "Made in Europe" partnership, EFFRA serves as the collective voice of Europe's manufacturing community.



Europe as a Global Leader in Manufacturing



Vision

EFFRA aims to make Europe the top provider of machinery and equipment and the most attractive region for producing sustainable, high-value goods. The organisation plays a key role in facilitating collaboration between industry and academia, helping shape future **European Commission calls for research and** innovation projects.



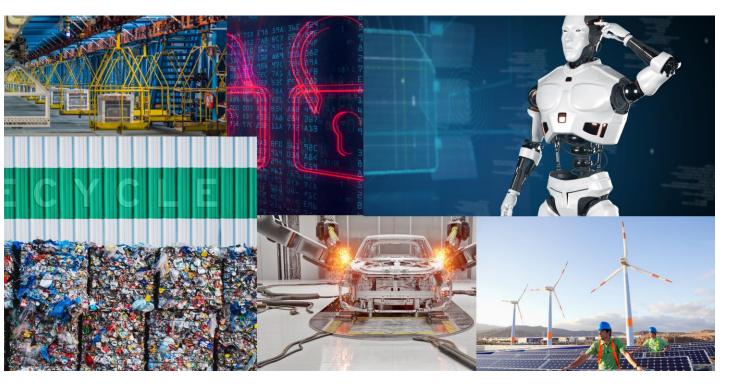


Working Groups

EFFRA is structuring its work on high-priority research and innovation topics in Working Groups (WGs).

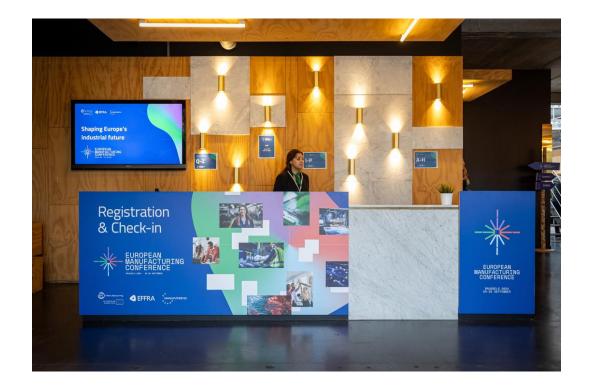
WG1: Productive and flexible manufacturing WG2: Circularity; re-manufacturing; circular products WG3: Humans in the workplace. How jobs are changing WG4: Manufacturing needs of the energy sectors WG5: Manufacturing needs of the transport sectors WG6: Exploitation of research results



















GEFFRA

and many others...

Made in Europe Draft Topics 2025 Online Pitching - Presentations and **Recording Available**



On the 12th of September EFFRA hosted an Online Pitching Session for Made in Europe's draft topics for 2025. More than 100 people registered for the exclusive event and we had the opportunity to hear twenty member organizations pitch their ideas.

You can access the pitches' presentations here.





Past EVENTS

- European Manufacturing Conference (September 27-28, 2022)
- Made in Europe Brokerage & Pitching 2022 (October 25, 2022)
- Webinar on Manufacturing Data Spaces Call (December 7, 2022)
- Workshops with the Made in Europe Projects (Nov. Dec. 2022)
- Made in Europe Brokerage & Pitching 2023 (June 27, 2023)
- ConnectedFactories Final Event (November 23, 2023)
- Collaboration with Science I Business articles on Collaborative Robotics, Connected Factories, MiE WP 2025-27 **Public Consultations**
- Webinars and Open Consultation on Made in Europe WP 2025-27 (May September 2023)
- Manufacturing Partnership Day (September 26, 2023)
- Manufacturing Partnership Days (May 6-7, 2024)
- 2nd European Manufacturing Conference (September 24-25, 2024)







Future EVENTS

- EFFRA General Assembly (March 25, 2025)
- Manufacturing Partnership Day (October 20-21-22, 2025)
- European Manufacturing Conference (September 2026)





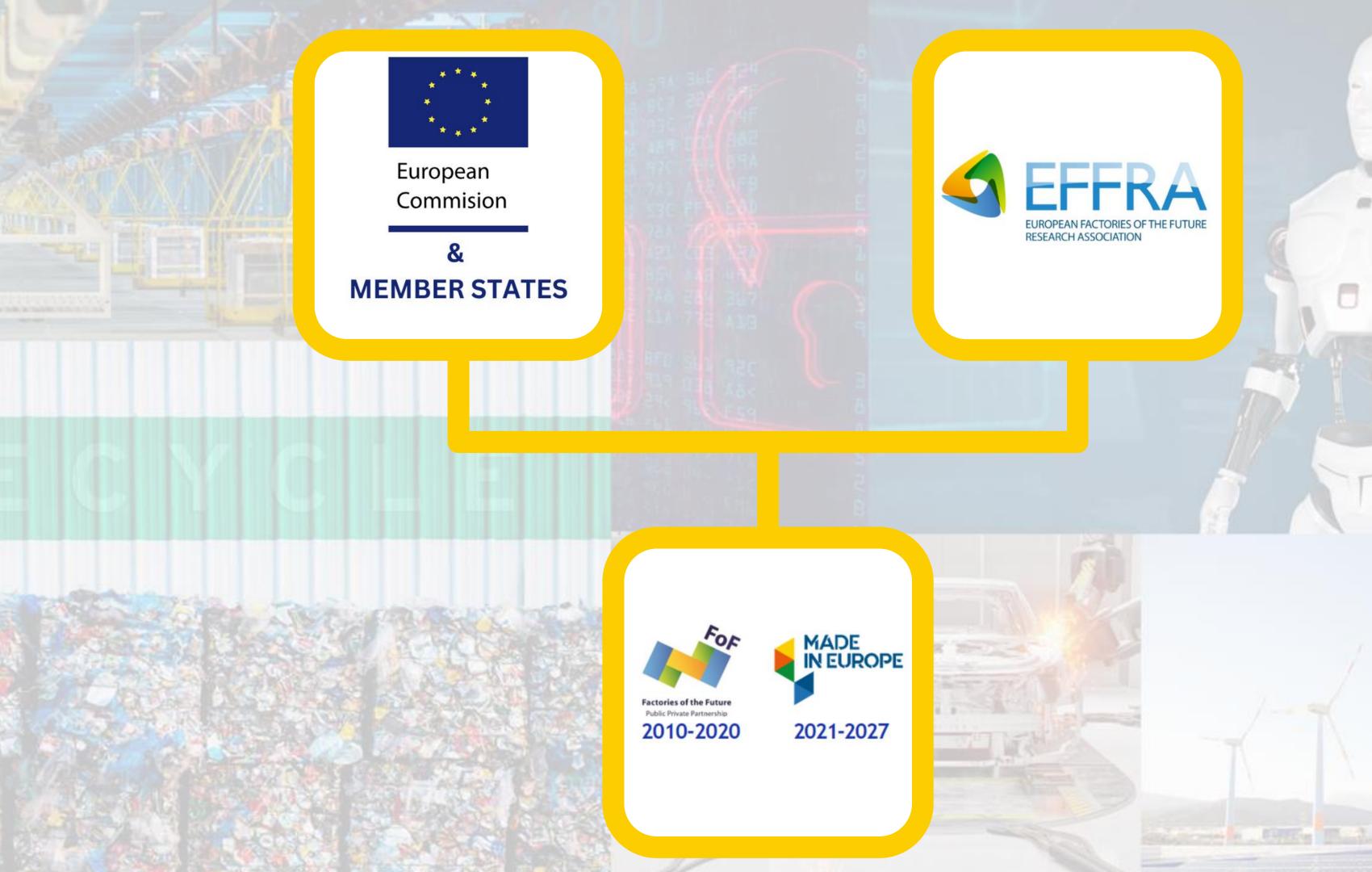


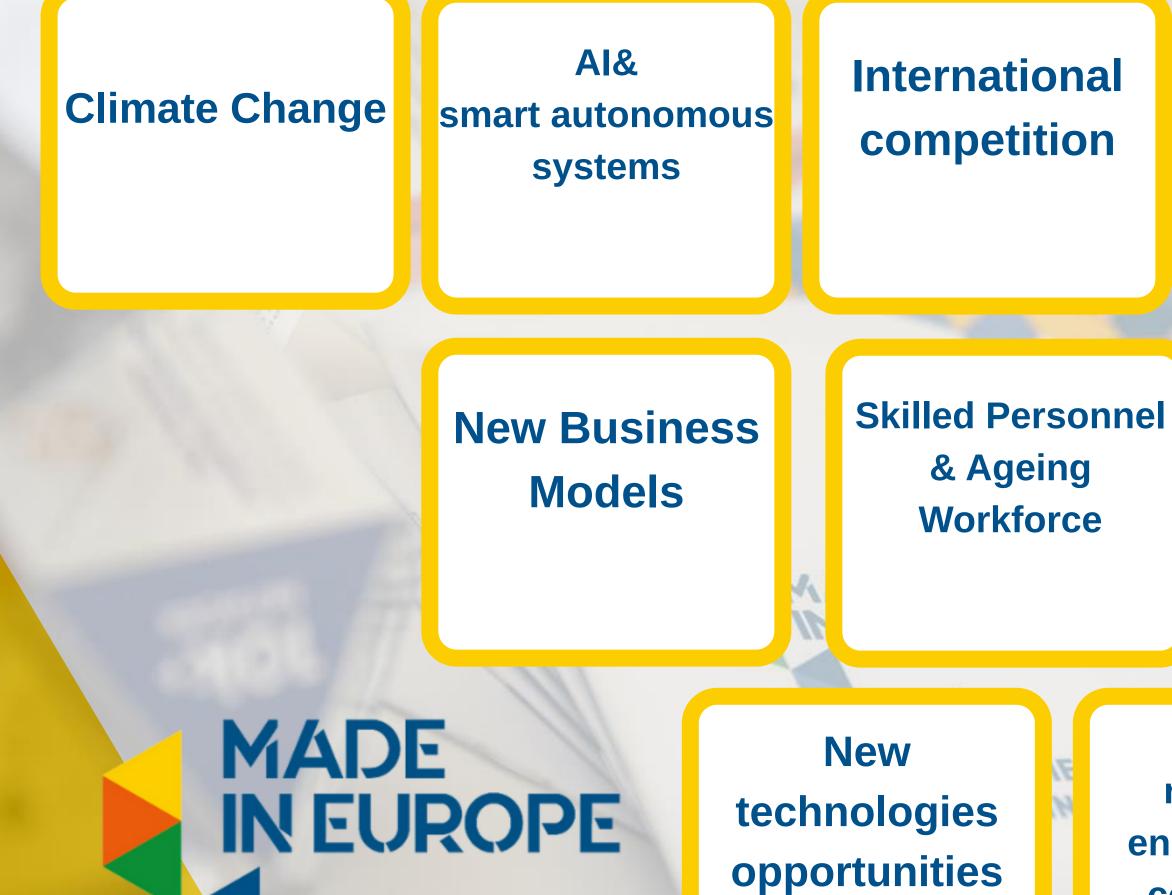


The Made in Europe Partnership

The Made in Europe Partnership succeeds the Factories of the Future Partnership, originally created under Horizon 2020. Under Horizon Europe, with a budget of around €1 billion, the Partnership was incepted in 2021 upon the signing by EFFRA of the Memorandum of Understanding with the European Commission, and **it aims to** steer the development of manufacturing in Europe to a future industry base that is more resilient, more sustainable, and more digital.

MADE IN EUROPE

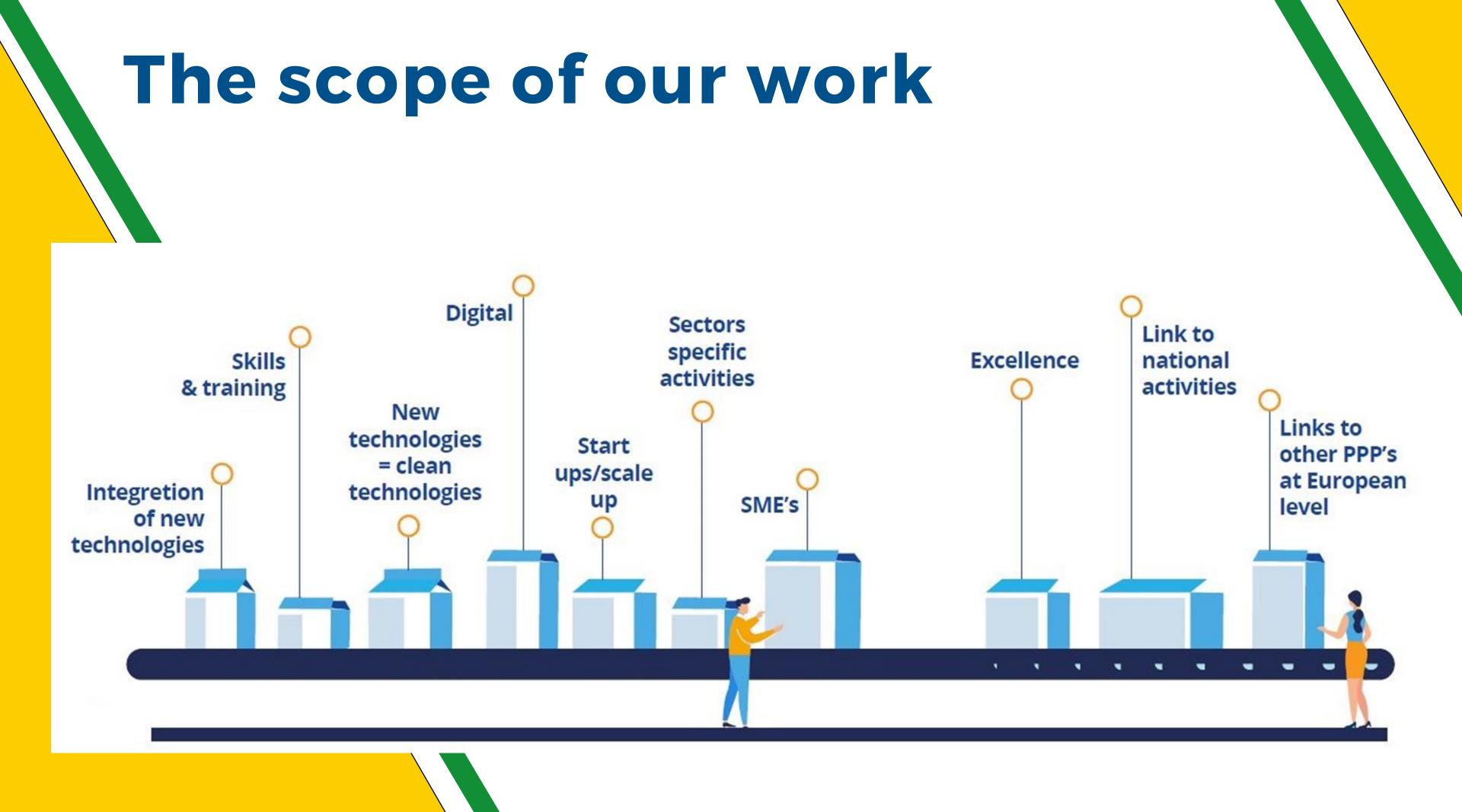




Changes: policy frameworks, customer preference

Imported: resources, energy, critical components

resilient industry



Partnership Storyline





Present





Excellent & Smart Factories

Circular Products & Climateneutral manufacturing







Circular Economy for Manufacturing Pathway



Operations of the company and its value chain meet environmental regulations.

Linearity

CE piloting activities are planned as part of strengthening the brand image.

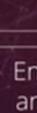
Company seeks to minimise inputs of energy and materials. Materials are being shifted from unsustainable to sustainable.

> Industrial CE Piloting



Code of conduct guidelines for circularity and the sustainability of materials are launched.

Systemic Materials Management







Transparent LCA or footprint calculations are utilised.

Environmental, social and economic pillars are capitalised.

CE Thinking

Emphasising the positive environmental impacts Upcycling/upgrading of materials.

Value chains are re-structured for closed/open (=cross-sectoral) loops (system integration).

Ideal circularity



Draft Made in Europe Topics for 2025

- Integrated approaches for remanufacturing (Made in Europe Partnership) (IA) 35M€
- Physical and cognitive augmentation in advanced manufacturing (Made in Europe Partnership) (RIA) 35M€
- Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership) (IA) 42M€
- GenAI4EU in Robotics and industrial automation (RIA) (AI/Data/Robotics and Made in Europe Partnerships) 85M€
- Smart integration of net zero technologies into Energy Intensive industries (Processes4Planet and Made in Europe partnerships) (IA) 25M€



MiE General Objectives

Ensuring European leadership & manufacturing excellence; generating new products and markets

01

Achieving circular and climate-neutral manufacturing

02

Mastering the digital transformation of manufacturing industry

MANUFACTURING TOGETHERI

-03

Creating attractive added-value manufacturing jobs

MiE Specific Objectives

Excellent, responsive and smart factories & supply chains

01

Circular products & Climate-neutral manufacturing

02

New integrated business, productservice and production approaches; new use models

MANUFACTURING TOGETHERI

 $\mathbf{03}$

Human-centered and human-driven manufacturing innovation

Data highways and data spaces in support of smart factories in dynamic value networks

Scalable, reconfigurable and flexible first-time right manufacturing

Zero-defect and zero-downtime high precision manufacturing, as predictive quality and non-destructive inspection methods

Artificial intelligence for productive, excellent, robust and agile manufacturing chains - Predictive manufacturing capabilities & logistics of the future

Advanced manufacturing processes for smart and complex products

Manufacturing for miniaturisatio and functional integration

Circular products & Climate-neutral manufacturing

Specific Objective

Research and Innovation Objectives

MiE Specific Objective

MIE

Specific Objective

Excellent, responsive

and smart factories &

supply chains

New integrated business, productservice and production approaches; new use models Collaborative product-service engineering for costumer driven manufacturing value networks

Manufacturing processes and approaches near to customers or consumer

Transparency, trust and data & IP integrity, open systems and cyber security along the product and manufacturing life-cycl

Specific Objective

SH



Human-centered and human-driven manufacturing innovation

Research and Innovation Objectives

Ultra-efficient, low energy and carbon-neutral manufacturin

De-manufacturing, re-manufacturing and recycling technologies for circular economy

Manufacturing with new and substitute materials

Virtual end-to-end life-cycle engineering and manufacturing from product to production lines, factories, and networks

Digital platforms and data management for circular product and production-systems life-cycles

Research and Innovation Objectives

Digital platforms and engineering tools supporting creativity and productivity of manufacturing development

Improving human device interaction using augmented and virtual reality and digital twins

Human & technology complementarity and excellence in manufacturing

Manufacturing Innovation and change management

Technology validation and migration paths towards industrial deployment of advanced manufacturing technologies by SMEs

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AVE OF BRIEF

IN EUROPE

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Manufacturing Innovation and change management

Thank You! Contact Us



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