

Co-creation through Manufacturing Eco-systems

EFFRA`s Roadmap for the “Made In Europe” Partnership



Joaquim Menezes , EFFRA Chairman



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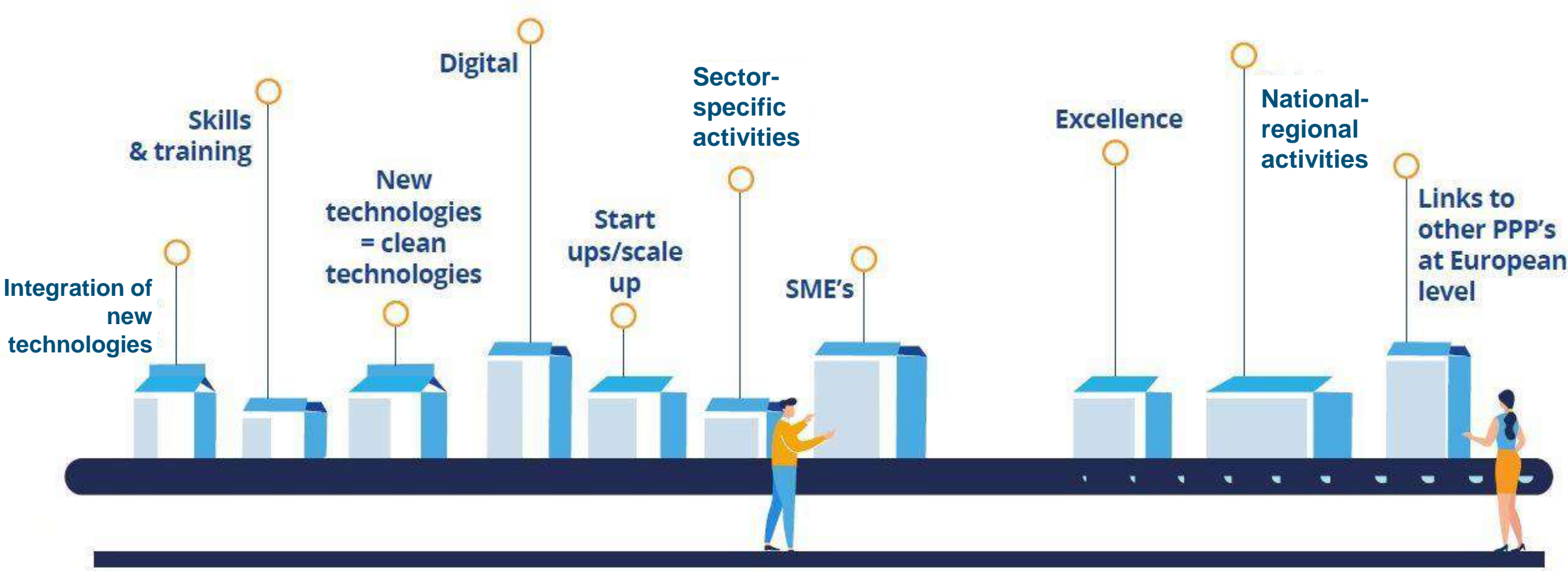


EFFRA

EUROPEAN FACTORIES OF THE FUTURE
RESEARCH ASSOCIATION

Roadmap for the Manufacturing Partnership (2021 – 2027)

The scope of our work



Excellent, Responsive, & Smart Factories



Roadmap Priorities

Low-Environmental Footprint, Customer-Driven Value Networks



Roadmap Priorities

Parallel Product & Manufacturing Engineering



Roadmap Priorities

Human-Driven
Innovation



Roadmap for the Manufacturing Partnership (2021 – 2027)

Co-creation through Manufacturing Eco-systems



Planet



People



Products of the Future



Competitiveness

Framework for the future Manufacturing Partnership (2021 – 2027)



IMPACT

- People
- Planet
- Competitiveness
- Products of the Future



CO-CREATION THROUGH MANUFACTURING ECO-SYSTEMS

- **Excellent, responsive and smart factories**
Scalable first-time-right manufacturing
Agile and robust manufacturing
- **Zero-environmental impact, customer-driven value networks**
Demand and customer-driven manufacturing networks
Circular economy (symbiotic manufacturing networks)
- **Parallel product and manufacturing engineering**
Concurrent, holistic and collaborative product-service engineering
Virtual end-to-end life-cycle engineering from product to production lines, factories and networks
Manufacturing smart and complex products
- **Human-driven Innovation**
Co-creation in European knowledge networks
Human & technology complementarity



ENABLING TECHNOLOGIES & APPROACHES

- **Advanced and smart material processing technologies and process chains**
- **Smart mechatronic systems, devices and components**
- **Intelligent and autonomous handling and robotics, assembly and logistic technologies**
- **De-manufacturing and recycling technologies**
- **Simulation and modelling (digital twins)**
- **Robust and secure industrial communication technologies, distributed control architectures**
- **Data analytics, artificial intelligence and deployment of digital platforms**
- **New business and new organisational approaches**

Factories of the Future Calls 2020 are open

Last FoF calls in Horizon 2020

- [DT-FOF-07-2020](#): Reliable and accurate assembly of micro parts
- [DT-FOF-09-2020](#): Holistic energy-efficient manufacturing system management
- [DT-FOF-10-2020](#): Pilot lines for large-part high-precision manufacturing
- [DT-FOF-11-2020](#): Quality control in smart manufacturing
- [ICT-11-2020](#): Artificial Intelligence in manufacturing
- [DT-ICT-03-2020](#): FoF - I4MS (phase 4) - uptake of digital game changers

effra.eu/calls-proposals



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info@effra.eu



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EuropeanFactories



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