



Manufacturing R&I in EU

Innovate Together Info Session
17/10/2024

*Nicholas Deliyanakis
Industrial Transformation Unit
DG Research and Innovation*

Context of Advanced Manufacturing R&I

Trends in Advanced Manufacturing R&I

- Report published in Nov 2023

- The “Trends in Advanced Manufacturing R&I” report
 - looked at the rich portfolio of dedicated EU projects, mostly under the Factories of the Future and Made in Europe partnerships; and
 - analysed the trends in manufacturing industry and the vision of the various stakeholders.

[Trends in advanced manufacturing R&I - Publications Office of the EU \(europa.eu\)](#)

Manufacturing portfolio: H2020 and Horizon Europe

Factories of the Future (FoF, H2020) and Made in Europe (MiE, Horizon Europe)

	FoF, H2020 (2014-20)	MiE, Horizon Europe (2021-24)
Total EU funding [EUR]	1,075 M€	572 M€*
Number of topics	43	20
Number of projects	178	95
Participations	2884	~1400
Average no. participants per project	16.2	~15
Average EU funding per project [EUR]	6.0 M€	~6 M€
Industry / SME Participation	50% / 30%	54% / 33%

3 * Subject to 2024 grants, and incl. additional topic outside MiE related to manufacturing

The funding under Factories of the Future and Made in Europe covered:

- **A wide array of manufacturing technologies**
 - sometimes in conjunction with AI and photonics partnerships
- **Circularity and sustainability**
 - **Zero-waste manufacturing**
 - **Energy efficiency**
 - **Process optimisation**
 - **Systemic circularity and Remanufacturing**
- **Digitisation, including connected factories and AI**
- **Human-centricity**
- **Breakthrough technologies, e.g. bio-intelligent manufacturing**

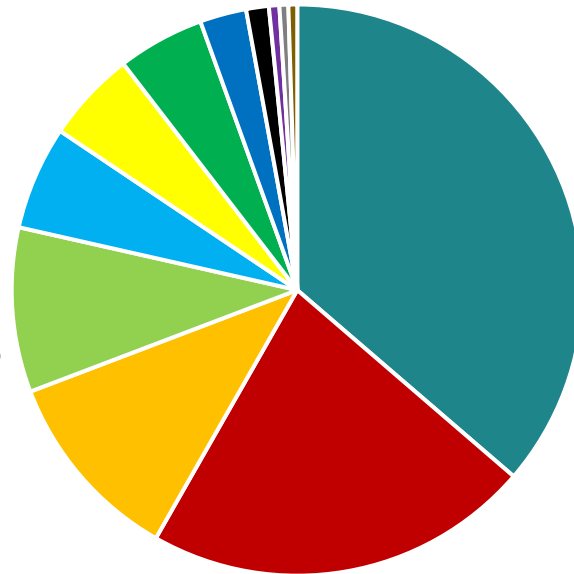
Advanced manufacturing also supported by European Research Council (ERC), the Digital Europe Programme (EDIHs), and the Vanguard initiative in regions

Demonstrators in FoF / MiE

Partial analysis of portfolio, based on: 48 projects, 332M€ funding, 172 demonstrators

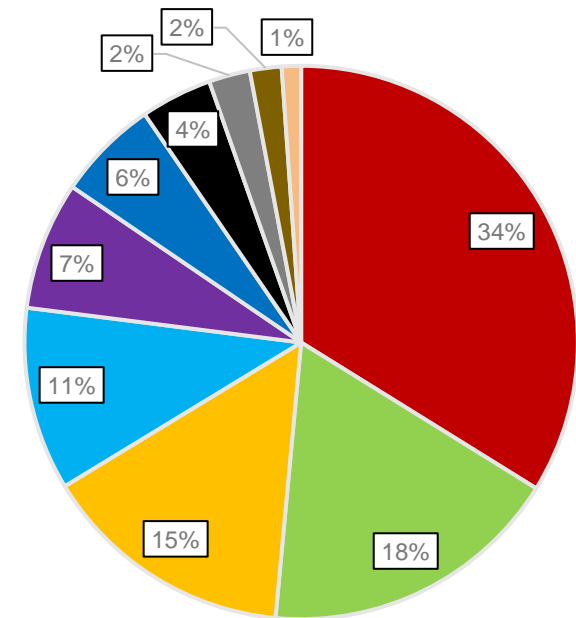
FoF EU Funding by Sector

- ICT
- Machinery
- Electronics
- Automotive
- Aerospace
- Instruments
- R&D/consultancy
- Metal/plastic products
- Medical equipment
- Shipbuilding
- Textiles
- Rail



FoF/MiE Demo EU Funding by Sector

- Machinery
- Automotive
- Electronics
- Aerospace
- Shipbuilding
- Metal/plastic prod.
- Medical equipment
- Textiles
- Rail
- Furniture



Key Findings

- EU funded projects developed many demonstrators in different sectors, with 2/3rds of them in the Machinery, Automotive, Electronics and Aerospace sectors
- Many SMEs are slow adopters. Skills are crucial.
- Industrial SMEs that participate in EU funded projects accelerate their green and digital transition, and their competitiveness
- Circularity: many technologies available but slow adoption; capacities and economic incentives vary widely across sectors / products; data are crucial
- Investments and synergies with other programmes are essential for deployment and skills development

Thank you



© European Union 2023

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](#) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide xx: [element concerned](#), source: [e.g. Fotolia.com](#); Slide xx: [element concerned](#), source: [e.g. iStock.com](#)