The Factories of the Future PPP

The FoF 2020 roadmap

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Factories of the Future PPP: Delivering Impact

151 Projects launched

Over 1,000 organisations

SME participation

Over €1000 M total project budget

50% industry participation

Demonstration

Committed industry & strong research network
The FoF 2020 Roadmap

Building on the FoF PPP in the SEVENTH FRAMEWORK PROGRAMME
The FoF 2020 Roadmap

Building on the FoF PPP in the SEVENTH FRAMEWORK PROGRAMME

- Challenges & Opportunities
  - Manufacturing Future Products
  - Economic
  - Social
  - Environmental

- Technologies & Enablers
  - Advanced Manufacturing Processes
  - Mechatronics for Advanced Manufacturing Systems
  - Information & Communication Technologies
  - Manufacturing Strategies
  - Knowledge Workers
  - Modelling, Simulation & Forecasting
The FoF 2020 Roadmap: building on FoF in FP7

Femtosecond Laser Printer for Glass Microsystems with Nanoscale Features
The FoF 2020 Roadmap: building on FoF in FP7

Development of a new high performance material associated to a new technological Energetic, Flexible, Economical, Versatile and Ecological process to make super strong and lightweight components.
The FoF 2020 Roadmap: building on FoF in FP7

Eco Manufactured transportation means from Clean and Competitive Factory

Challenges & Opportunities
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Sustainability

EMC2-Factory

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EFFRA
European Factories of the Future Research Association
a MANUFUTURE initiative
The FoF 2020 Roadmap: building on FoF in FP7

MAN-MADE

Workplaces of the future: the new people-centred production site

MANufacturing through ergonoMic and safe Anthropocentric aDaptive workplacEs for context aware factories in EUROPE
The FoF 2020 Roadmap: building on FoF in FP7

**PhoCam**

Photopolymer based customized additive manufacturing technologies

**OPTICIAN2020**

Flexible and on-demand manufacturing of customised spectacles by close-to-optician production clusters
The FoF 2020 Roadmap: building on FoF in FP7

Quality Control of Aluminium Laser-welded Assemblies

High performance Production line for Small Series Metal Parts
Plug-and-produce COmponents and METHods for adaptive control of industrial robots enabling cost effective, high precision manufacturing in factories of the future.

Plug and Produce Components for Optimum Dynamic Performance Manufacturing Systems
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Knowledge, Awareness and Prediction of Man, Machine, Material and Method in Manufacturing

Production Logistics and Sustainability Cockpit
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**IMAGINE**
Innovative end-to-end Management of Dynamic Manufacturing Networks

**ComVantage**
Collaborative Manufacturing Network for Competitive Advantage
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KNOW4CAR

An Internet-based Collaborative Platform for Managing Manufacturing Knowledge
Remote Laser Welding System Navigator for Eco & Resilient Automotive Factories

RLW Navigator – an engineering platform to introduce new emerging RLW joining technology into existing assembly systems
The FoF 2020 Roadmap

Research & Innovation Priorities

Domain 1: Advanced Manufacturing Processes
Innovative processing for both new & current materials or products

Domain 2: Adaptive and Smart Manufacturing Systems
Innovative manufacturing equipment at component & system level, including mechatronics, control & monitoring systems

Domain 3: Digital, Virtual & Resource Efficient Factories
Factory design, data collection & management, operation & planning, from real-time to long term optimisation approaches

Domain 4: Collaborative & Mobile Enterprises
Networked factories & dynamic supply chains

Domain 5: Human-Centred Manufacturing
Enhancing the role of people in factories

Domain 6: Customer-Focused Manufacturing
Involving customers in manufacturing value chain, from product process design to manufacturing associated innovative services

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EFFRA
EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION
a MANUFUTURE initiative
MORE THAN A COLLECTION OF PRIORITIES & PROJECTS

Making the results and demonstrators visible
Making the results and demonstrators visible
General project information

Link to project website

Exploitable results overview

Project demonstrators overview

Addressed challenges and technologies

Project participants

Not only information
Project / demonstrator view pages

Project participants

Collecting from each project:
• The addressed challenges (cfr. FoF 2020 roadmap)
• The addressed technologies (cfr. FoF 2020 roadmap)
• For each exploitable result and demonstrator:
  • The application area, for example automotive, aerospace, food industry, textile industry, etc (using the NACE code structure)
  • An indication on how close the result/demonstrator is to industrial deployment
  • The involved organisations and locations

Also people

Not only information
www.effra.eu/portal

Ready for

Thank You

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