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Update



Chris Decubber

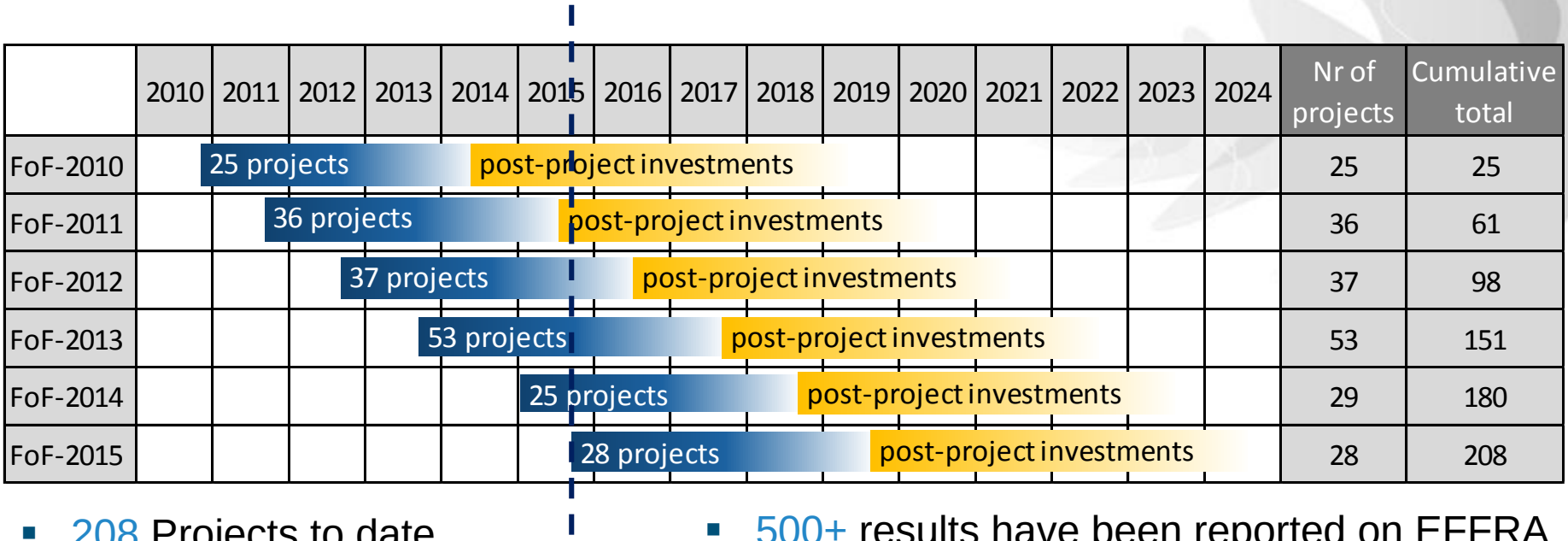
@ Joining Platform General Assembly

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Factories of the Future

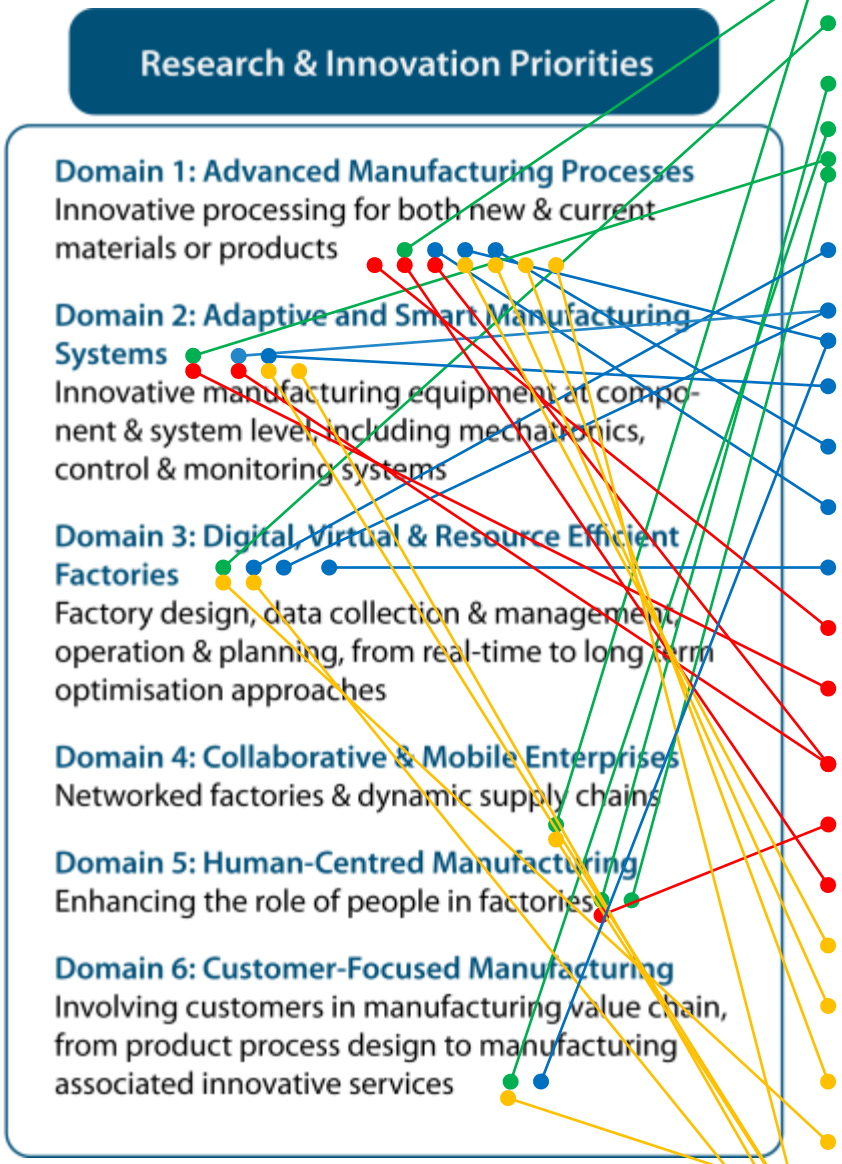
Projects



- 208 Projects to date.
- ~ 1,500 organisations participating
- High involvement of SMEs: 200+
- Majority of projects feature demo activities

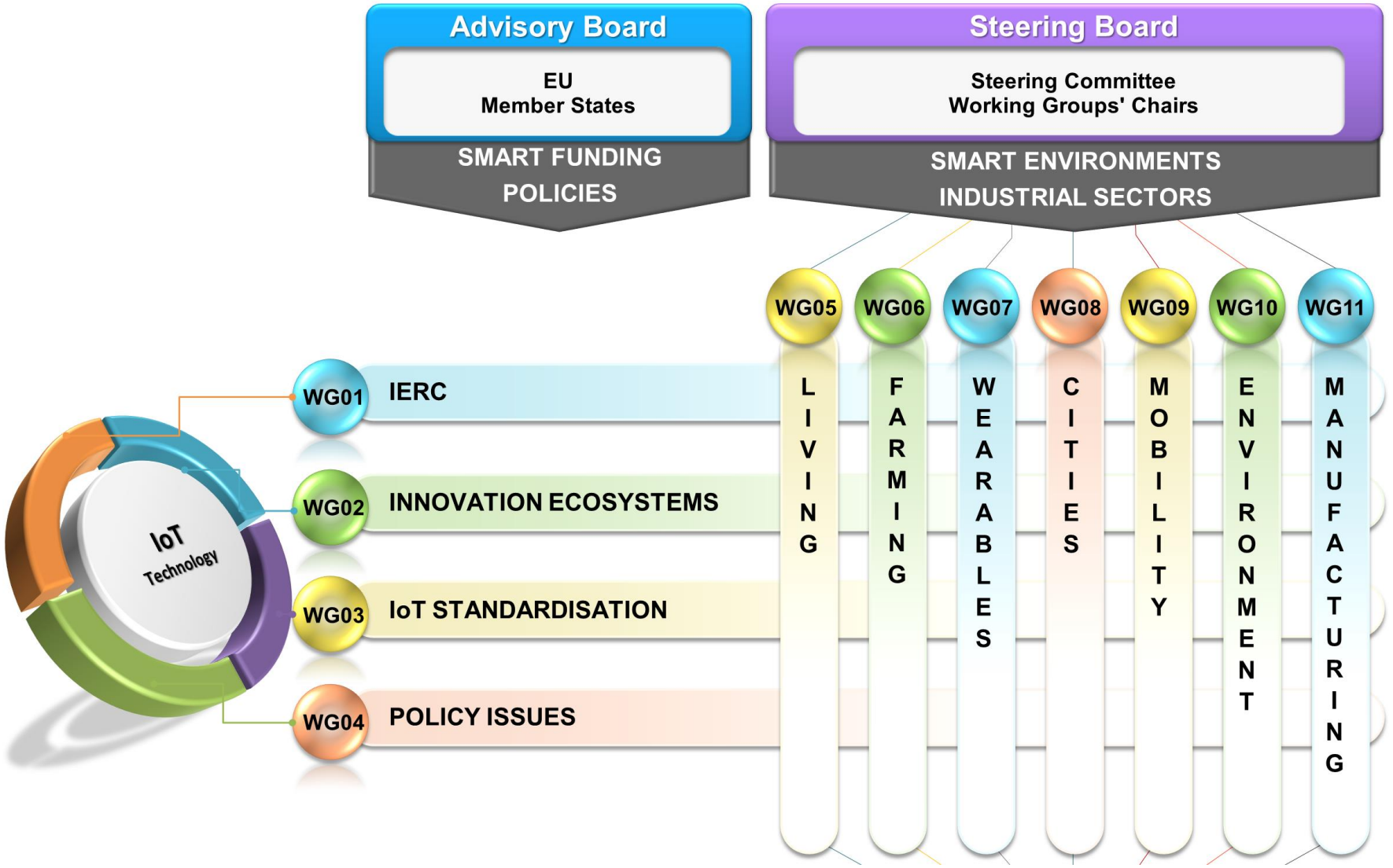
- 500+ results have been reported on EFFRA Innovation Portal
- Close to the market exploitation of project results
- Project results enhancing existing products

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FoF 1 – 2014: Process optimisation of manufacturing assets
FoF 2 – 2014: Manufacturing processes for complex structures and geometries with efficient use of material
FoF 3 – 2014: Global energy and other resources efficiency in manufacturing enterprises
FoF 4 – 2014: Developing smart factories that are attractive to workers
FoF 5 – 2014: Innovative product-service design using manufacturing intelligence
FoF 6 – 2014: Symbiotic human-robot collaborations for safe and dynamic multimodal manufacturing systems
FoF 7 – 2014: Support for the enhancement of the impact of FoF PPP projects
FoF 8 – 2015: ICT-enabled modelling, simulation, analytics and forecasting technologies
FoF 9 – 2015: ICT Innovation for Manufacturing SMEs (I4MS)
FoF 10 – 2015: Manufacturing of custom made parts for personalised products
FoF 11 – 2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
FoF 12 – 2015: Industrial technologies for advanced joining and assembly processes of multi-materials
FoF 13 – 2015: Re-use and re-manufacturing technologies and equipment for sustainable product lifecycle management
FoF 14 – 2015: Integrated design and management of production machinery and processes
FoF-01-2016: Novel hybrid approaches for additive and subtractive manufacturing machines
FoF-02-2016: Machinery and robot systems in dynamic shop floor environments using novel embedded cognitive functions
FoF-03-2016: Zero-defect strategies at system level for multi-stage manufacturing in production lines
FoF-04-2016: Continuous adaptation of work environments with changing levels of automation in evolving production systems
FoF-05-2016: Support for the further development of Additive Manufacturing technologies in Europe
FoF-06-2017: New product functionalities through advanced surface manufacturing processes for mass production
FoF-07-2017: Integration of unconventional technologies for multi-material processing into manufacturing systems
FoF-08-2017: In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
FoF-09-2017: Novel design and predictive maintenance technologies for increased operating life of production systems
FoF-10-2017: New technologies and life cycle management for reconfigurable and reusable customised products
FoF-11-2016: Digital automation
FoF-12-2017: ICT Innovation for Manufacturing SMEs (I4MS)
FoF-13-2016: Photonics Laser-based production

ALLIANCE FOR INTERNET OF THINGS INNOVATION - AIOTI



5G PPP



“The 5G PPP will deliver solutions, architectures, technologies and standards for the ubiquitous next generation communication infrastructures of the coming decade”

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White Paper

5G and the Factories of the Future

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BDV BIG DATA VALUE ASSOCIATION

Home | News | Events | Resources | Membership | Task Forces



Big Data Value Association

The Big Data Value Association AISBL is a fully self-financed non–for-profit organisation under Belgian law. Currently there are 24 founding members from large and SME industry and research. The BDVA shall present an industry-led contractual counterpart to the European

About us

BDV BIG DATA VALUE ASSOCIATION
RESEARCH ASSOCIATION
a MANUFUTURE initiative

Factories of the Future: Key Tool

EFFRA Innovation Portal



One reference resource…

- for **progress monitoring**
- for **sharing information among projects**
- for promoting projects, results and demonstrators to the **wider community**
- for **portfolio management** and analysing coverage of FoF 2020 roadmap
- for **supporting the further roadmapping exercises**
- for **supporting online brokerage**

www.effra.eu/portal

FoF
Factories of the Future
Public Private Partnership

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Research & Innovation Opportunities

Work programme (i.e. call topics) for 2016-2017: € 278 million

2016 Call is Open!

€ 77 million for the following topics:

- FoF-01-2016: **Novel hybrid approaches for additive and subtractive manufacturing machines**
- FoF-02-2016: **Machinery and robot systems in dynamic shop floor environments using novel embedded cognitive functions**
- FoF-03-2016: **Zero-defect strategies at system level for multi-stage manufacturing in production lines**
- FoF-04-2016: **Continuous adaptation of work environments with changing levels of automation in evolving production systems**
- FoF-05-2016: **Support for the further development of Additive Manufacturing technologies in Europe**
- FoF-11-2016: **Digital automation** (€ 53 million)
- FoF-13-2016: **Photonics Laser-based production** (€ 30 million)

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Research & Innovation Opportunities

Call 2017 (*Opening in 2016*)

€ 85 million for the following topics:

- FoF-06-2017: **New product functionalities through advanced surface manufacturing processes for mass production**
- FoF-07-2017: **Integration of unconventional technologies for multi-material processing into manufacturing systems**
- FoF-08-2017: **In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability**
- FoF-09-2017: **Novel design and predictive maintenance technologies for increased operating life of production systems**
- FoF-10-2017: **New technologies and life cycle management for reconfigurable and reusable customised products**

€ 33 million for the following topic:

- FoF-12-2017: **ICT Innovation for Manufacturing SMEs (I4MS)**

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There is more work to do…

- Reinforce further the links with national and regional initiatives
- Start thinking about the calls 2018-2019-2020
  - Current success rate is too low… How can we avoid this and value excellent proposals
  - Focus, distance to market?
  - Type of instruments, size of projects?
  - …

Key activity: stimulating exploitation of project results

Project Success Factors

- Project team
- Success factor 1
- Success factor 2
- upscaling
- IP Management
- Feedback
- Visibility

Project Success Factors

Organisations offering additional support

- Assistance in IP management, market knowledge, networking/clustering/brokerage, accessing demonstration and testing facilities…
- Financial
- Research & innovation grants (European
- Private Investors

Organisations offering additional support

Project specifics & project outcome

Project basic information

- Challenges
- Approach
- Application

Project outcome and impact

Project results and demos



Project KPIs

- products
- product
- ilities
- echnologies
- Energy consumption

Events, workshops formats

- meetings/workshops

Formats for events, workshops…

Bilateral assistance formats

- How to make the best of the
- when
- assisting companies
- Second line

Formats for bilateral assistance

Focus of FoF-Impact

Essential Architecture of exploitation toolkit

Address project success factors systematically during whole life-cycle of FoF Projects

Associate supporting organisations to success factors and stimulate support to the projects

Associate workshop/event formats to success factors and stimulate workshop and event participation

Integration within EFFRA Innovation Portal

Cooperation with other CSAs

EU_KNOWLEDGE EXPLORE Co-FACTOR effective FoFAM FOCUS www.focusonfof.eu EFFRA EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION a MANUFUTURE initiative

Key activity: stimulating exploitation of project results

Project Success Factors

Project Success Factors

Organisations offering additional support

Assistance in IP management, market knowledge, networking/clustering/brokerage, accessing demonstration and testing facilities...

Focus of FoF-Impact

Architecture of
n toolkit

ject success
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life-cycle of

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success
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rojects

op/event
factors
shop
participation

Integration within EFFRA Innovation Portal

17 February, Brussels

Turning success factors into Factories of the Future

A technology transfer experts workshop

Cooperation with other CSAs

EU-KNOWLEDGE

EXPLORE

Co – FACTOR

effective

FoFAM

FOCUS www.focusonfof.eu

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Thank You

chris.decubber@effra.eu

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