PPP Info Days 2013
Factories of the Future

Speaker:
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‘Factories of the Future’
Manufacturing: key to EU economy

- Europe, as well as all world economies, recognises relevance of manufacturing to overcome crisis & create new opportunities for growth and jobs
- Manufacturing important for Europe:
  - 14 % direct jobs
  - 67 % exports
  - 65 % business R&D expenditure
- 20% of GDP from industry is the goal of Europe 2020
- Development of more competitive & sustainable EU industry needs support
- Horizon 2020 Industrial Leadership pillar recognises this need
- Support = ‘Factories of the Future’ contractual Public-Private Partnership (cPPP)
Factories of the Future
Past Finish Line = New Start

Substantial progress since FoF PPP launch:

- First Industry-developed multi-annual roadmap (2009)
  - 151 Projects Launched (2009 to 2012)
  - Participation of 1,000+ organisations
  - Approx. €1.2 billion total investment
    - Reinforced “manufacturing community” feeling
  - Commitment of industry to European RD&I: PPP Declaration (Aarhus, 2012)

Horizon 2020: we are ready to continue!
Factories of the Future

Delivering Results

150+ PROJECTS

- High involvement of SMEs: 200+ to date (of 500+ industrial enterprises overall)
- Majority of projects feature demo activities
- 21 projects are complete & have delivered results. More projects are close to completion
- Close to the market exploitation of project results
- Project results also enhancing existing products
Factories of the Future
Advanced Manufacturing Systems a Key Enabling Technology (KETs)

- Advanced Manufacturing Systems (AMS) is recognised as a key enabling technology (KET): a milestone for the Factories of the Future & EFFRA community

- FoF PPP roadmap in FP7 programme & projects incorporated KETs

- Advanced Manufacturing Systems themselves integrate other KETs (e.g. photonics, sensors, micro-electronics, new materials, ...)

- ‘Factories of the Future 2020’ incorporates all relevant enabling technologies either KETs or not (e.g. ICT, robotics, mechatronics, ....)
Factories of the Future
What happens when projects end?

What we want:

- That researchers stay committed within the running or completed FoF projects
- That FoF projects results & demonstrators are widely disseminated & exploited
- That FoF project coordinators & project participants have great ideas for possible follow ups & find the right person to speak to

Factories of the Future is an opportunity:

- To make things different from the past
- To develop an eco-system that fosters market uptake
Factories of the Future

Exploiting projects results

EFFRA commits to:

- Promoting the results & demonstrators
- Developing a “Technology Transfer toolkit” for ‘Factories of the Future’ projects
- Involve customers/ factory owners in the process (they are already part of FoF projects & of EFFRA)
- Developing further demo/piloting activities for demonstrating & validating on a larger scale, for example by clustering project results using the framework ‘FoF 2020’

EFFRA’s Goal: Deploy results for transforming our factories & attract potential investors
EFFRA Roadmap & Horizon 2020

Enabling Solutions

‘Factories of the Future 2020’ is central to the next phase of partnership

- Responding to grand challenges facing Europe
  - Manufacturing future products
  - Economic sustainability
  - Social sustainability
  - Environmental sustainability

- Technologies & enablers identified

- How to use these to meet challenges?

- Answer: R&I Priorities
Factories of the Future
Delivering Impact for Europe

- Employment
  - Developing High Skilled Jobs

- Economy
  - Generating Added Value

- Factories of the Future 2020

- Enabling Society
  - Meeting Societal Challenges

- Doing More With Less
  - Preserving the Environment

- Deepening Cooperation
  - Strengthening Research & Innovation
Factories of the Future
Contractual PPP

- Endorsement of success of our partnership model & result of successful collaboration between manufacturing industry & European Commission
- Stated commitment by both Commission & industry
- Roles of private & public partners clearly defined
- Expected public contribution*:
  - €700 m DG Research & Innovation
  - €450 m DG Connect

*Additional activities funded through ‘Smart Specialisation’ & other linked initiatives

- Calls based on priorities identified by ‘Factories of the Future 2020’
The Future

EFFRA & Factories of the Future

Challenges for our Community

- Bring results to the market
- Measuring impact: need to establish a methodology & define indicators

Activities Within & Outside of Horizon 2020

- Priority alignments – National & Regional level with European
- Innovation Portal – Home of project results, clustering tool, community connection resource
- Supporting the Added-Value Manufacturing KIC (EIT)
- Project results built-on through “add-on” piloting activities
The Future of Factories
Sustainable, Competitive & Innovative

- Innovative SMEs
- High-level of customisation & quality
- Rapid adaptable production lines
- Re-manufacturing
- Focused on zero defects
- Interconnectivity, communication & data storage via cloud

- Factories closer to customers
- Energy & resource efficient
- Adaptable workplaces for changing worker demographic
- Continuous skills improvements: multi-skilled jobs
Thank You!

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