Joining and H2020

Leadership in Enabling and Industrial Technologies & Societal Challenges

Joining Sub-Platform of Manufuture General Assembly
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HORIZON 2020

Horizon 2020: Some key elements

- A single programme with three pillars: **societal challenges, industrial competitiveness and excellence in science**
- More emphasis on **innovation**
- More involvement of industry via the **industrial deployment of key enabling technologies**, and through **PPPs** - institutional and contractual

Industrial mastering and deployment of Key Enabling Technologies (KETs)

What are KETs?

- Six strategic technologies
- Driving competitiveness and growth opportunities
- **Contributions to solving societal challenges**
- Knowledge- and Capital-intensive
- Cut across many sectors

- Nanotechnologies
- Advanced Materials
- Micro- and nano-electronics
- Photonics
- Biotechnology
- **Advanced Manufacturing**

European KET Strategy:

- EC Communications (2009)512 & (2012)341
- KET High-level Group

Calls 2015

FoF PPP

FoF 8: ICT-enabled modelling, simulation, analytics and forecasting technologies, RIA & CSA

FoF 9: ICT Innovation for Manufacturing SMEs (I4MS), IA&CSA

FoF 10: Manufacturing of custom made parts for personalised products, RIA

FoF 11: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots, IA

FoF 12: Industrial technologies for advanced joining and assembly processes of multi-materials, IA

FoF 13: Re-use and re-manufacturing technologies and equipment for sustainable product lifecycle management, RIA

FoF 14: Integrated design and management of production machinery and processes, RIA

Opportunities for funding: FOF-12-2015

Call for Factories of the Future

H2020-FoF-2015 — Sub call of: H2020-FoF-2014-2015

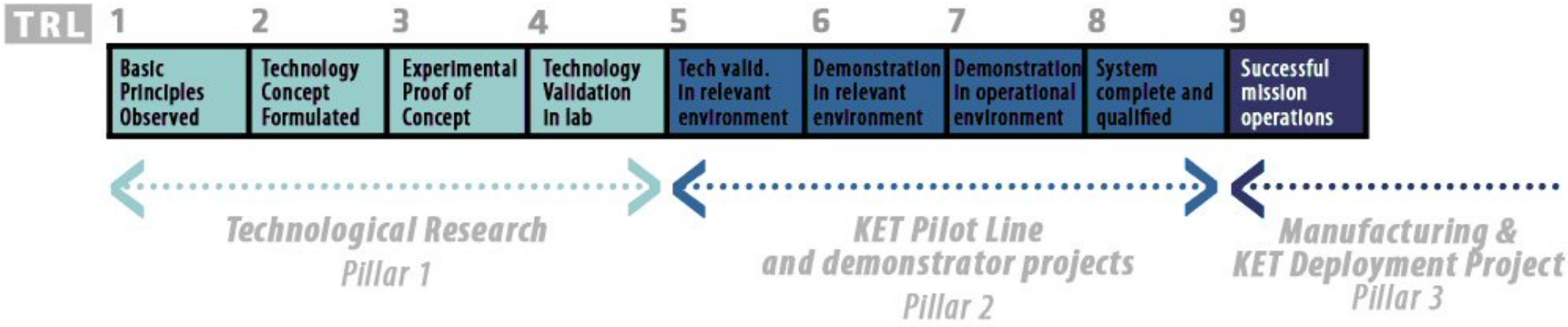
Publication date	11-12-2013	**Deadline Date**	09-12-2014 17:00:00 (Brussels local time)
Total Call Budget	€145,000,000	**Main Pillar**	Industrial Leadership
Status	Open	**OJ reference**	OJ C 361 of 11 December 2013

Topic: Industrial technologies for advanced joining and assembly processes for multi-materials — **FoF-12-2015**

WHAT	HOW	IMPACT
Multi-materials	**Cause-effect links**	**Consumption ↘**
Joining & Assembly	**Simulations**	**Performance ↗ with price =**
Sustainable	**Prototype or pilot line**	**High automation with production time ↘**
Non-destructive		

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The LEIT part of the WP uses **Technology Readiness Levels** (or TRL) from 3-4 up to 7-8



Synergies with other EU, national or regional programmes are encouraged:

- Some topics are particularly suitable for **additional funding**
  - ⇒ e.g. to explore paths to commercial exploitation or to deploy H2020-funded technologies

Some key aspects of Joining for H2020

Technological themes:

- **Multi-Materials**
- **NDT – Quality control**
- **Structural Integrity of Equipment**

Big areas of application:

- **Manufacturing**

But also:

- **Process Industry**
- **Structures**
- **Energy industry**
- **Transport**

Horizon 2020: NMBP Calls in 2015

Budgets (in M€):

FoF, EeB, SPIRE calls: **(68+)75.17 ; 62.48 ; 75.17**

NMP call - nano pilot lines, CSAs, ERA-Net: **64.43 ; 2.65 ; 12.15**

NMP call - other topics: **148.37**

Horizon 2020: NMBP Calls in 2015

Deadlines:

FoF, EeB, SPIRE calls: **04/02/2015** (single stage)

NMP call - nano pilot lines, CSAs, ERA-Net: **26/03/2015** (single stage)

NMP call - other topics: **26/03/2015** (1st stage) / **08/09/2015** (2nd stage)

This presentation is based on the WP
Always check legal documents



Thank you for your attention !

Find out more:

www.ec.europa.eu/research/horizon2020

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