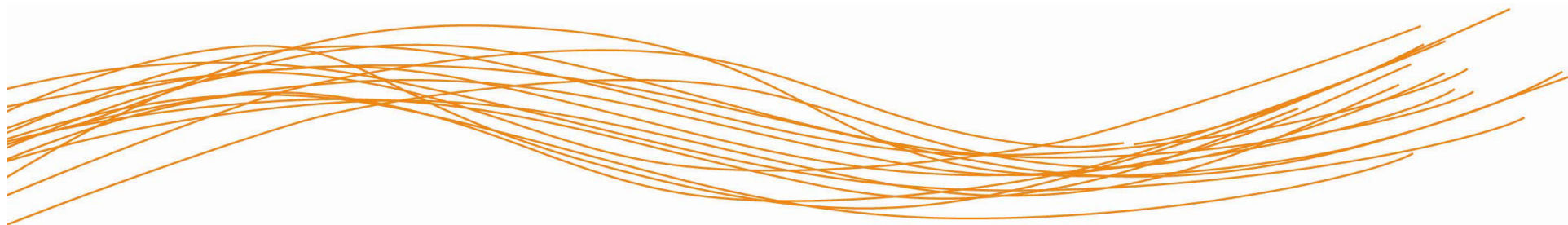




Info Day PPPs 13 July 2009: Factories of the Future PPP



Andrea Gentili
Industrial Technologies Directorate
« New Generation of Products »
DG Research
European Commission

Brussels, 13 July 2009





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- **What it is the “Factories of the future” PPP?**
- **The work done in the last 7 months**
- **FoF PPP topics in the call 2010**

Brussels, 13 July 2009





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COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 26.11.2008
COM(2008) 800

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN COUNCIL

A European Economic Recovery Plan

Brussels, 13 July 2009





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European Economic Recovery Plan – page 16

- **To increase the use of technology in manufacturing, "a factories of the future initiative"**: The objective is to help EU manufacturers across sectors, in particular SMEs, to adapt to global competitive pressures by increasing the technological base of EU manufacturing through the development and integration the enabling technologies of the future, such as engineering technologies for adaptable machines and industrial processes, ICT, and advanced materials. The estimated envelope for this action is € 1.2 bn.

Brussels, 26.11.2008
COM(2008) 800

Brussels, 13 July 2009





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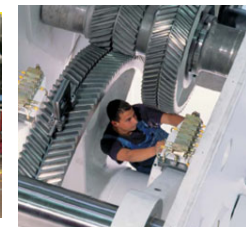
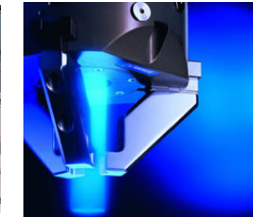
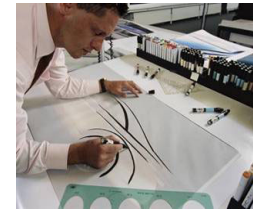
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Objective

- To support **Innovation in manufacturing** by developing **enabling production technologies** to help EU manufacturing industry **across many sectors** to adapt to global competitive pressures by boosting their technological base.
- Manufacturing is the driving force in the EU's economy, with 21% of GDP and 20% of all jobs
- 25 industrial sectors, largely dominated by **SMEs**
- Themes: NMP, ICT

Budget: € 1.2 billion in 4 years

In 2010: ~ € 160 million Euro





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Key Players

PUBLIC:

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PRIVATE:

• **Large Companies:**

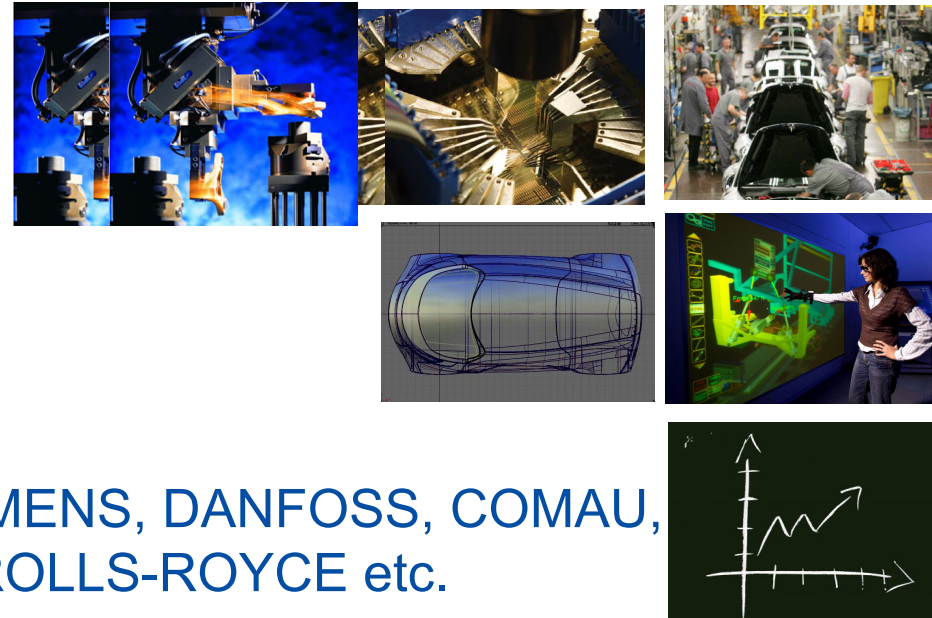
DAIMLER, SONAE, ALSTHOM, SIEMENS, DANFOSS, COMAU, IDEKO-MONDRAGON, ABB, SAP, ROLLS-ROYCE etc.

• **Large Industrial Associations representing SMEs:**

EFFRA, ORGALIME, VDMA, AGORIA, FIM, TEKNIKFOERETAGEN etc.

• **European Technology Platform:**

Manufuture umbrella: over 100 organisations, from more than 20 countries, incl. large OEMs, SMEs, Industrial Associations, Research Institutes, Universities – linked to many other ETPs



Brussels, 13 July 2009



Factories are Product-Services Made and Used in Europe

High Value Adding Manufacturing Industries

The FACTORY of the FUTURE in EUROPE:

Worker-friendly,

Sustainable and Competitive

Customer driven/on-demand manufacturing

Life cycle oriented

Networking manufacturing

Integrated Knowledge

Intelligent Adaptive Systems,

...





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Expected results

✓ ***Sustainable Manufacturing***

- quiet, clean and safe green production machines competitive in the world-wide market

✓ ***ICT enabled Intelligent Manufacturing***

- intelligent production systems capable of interacting with operators, self-monitoring and self-correct smart production lines

✓ ***High performance manufacturing***

- towards 0 defects, lean and adaptive manufacturing processes

✓ ***Manufacturing processes to handle new materials***

- processes for new products using light-weight/high-performing materials and micro/nano manufacturing ('portable factory')



Public-Private Partnerships

Status Report

- Meetings between High-level Industrial representatives of the 3 PPP initiatives and RTD Director General Silva Rodriguez has taken place:
 - *21 January 2009: Manufuture HLG represents the private side*
- Commissioner Potočnik met with the 3 PPPs on *30 March 2009: Joint Statement- all options explored for long-term implementation*
- Ad Hoc Industrial Advisory Group for FoF PPP meetings:
 - *23 March 2009: endorsement of the FoF PPP topics included in the Call 2010*
 - *29 April 2009: methodology for the Multi-annual Roadmap (MR)*
 - *15 June 2009: discussion of the first DRAFT of the MR*
- The Commission Interservice group on " Research implementation of the recovery package" has been created:
 - All services concerned are represented: SG, SJ, RTD, INFSO, TREN, ENTR, ENV, ADMIN & BUDG – Two meetings have already taken place



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Budget EC Funding*

Factories of the Future PPP

Total investment:

1.200 M€

	<i>RTD/NMP</i>	<i>INFSO</i>	<i>Total</i>	<i>PPP type</i>
<i>2010</i>	60	35	95	Coordinated Call
<i>2011</i>	80	70	120	?
<i>2012</i>	100	70	150	?
<i>2013</i>	160	70	240	?
Total EC Funding	400	200 +45	600 +45	

* All budgets are not fixed yet



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Call Topics WP 2010

Factories of the Future PPP

- Plug-and-produce components for adaptive control – NMP (Hans.Brelen@ec.europa.eu)
- Supply chain approaches for small series industrial production – NMP (Roberta.Salonna@ec.europa.eu)
- Intelligent, scalable, manufacturing platforms and equipment for components with micro- and nano-scale functional features – NMP (Kai.Peters@ec.europa.eu)
- Smart Factories: ICT for agile and environmentally friendly manufacturing - ICT (Erastos.Filos@ec.europa.eu)



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FP7/PPP Information

- **EU research:**
<http://europa.eu.int/comm/research>
- **PPP research:**
http://ec.europa.eu/research/industrial_technologies/lists/factories-of-the-future_en.html
- **Research programmes and projects:**
http://cordis.europa.eu/fp7/home_en.html

Thank you!

Disclaimer: Aspects of these presentations interpret legal documents. Only these legal documents are legally binding

Brussels, 13 July 2009

