

# First Multi-Annual Roadmaps

Open consultation on the multi-annual roadmaps

**The updated drafts of the multi-annual roadmaps for two of the Public Private Partnerships (PPP) are now available via web. They concern 'Energy-efficient Buildings' (EeB) and 'Factories of the Future' (FoF). An open consultation for both of them has been organized until November 30 2009.**

In the 'Energy-efficient Buildings' EeB draft multi annual roadmap, it is identified that "cost optimization is to a large extent linked with optimization of the required amount of man-power, more and more use will be made of prefabrication and ICT". For a ten year time perspective they proposed three "wave actions" to reach impact, namely:

- » Step 1: Reducing the energy use of buildings and its negative impacts on environment;
- » Step 2: Buildings cover their own energy needs;
- » Step 3: Transformation of buildings into energy providers, preferably at district level.

It is stated that there is a lack of cost-effective technical solutions for demand reduction, optimal use of renewable energy, accurate simulation tools to evaluate the expected impact of new systems and solutions in the energy use in buildings. We are aware of the lack of reliable measurements of Energy Management Systems that cannot adapt to user behaviour, or are not intuitive for the end user. But they see that opportunities exist to develop robust wireless sensors and actuators that can make energy management systems cost-effective and widespread. They claim a "Value Chain and SMEs focus" where is a need to build up a seamless value chain which makes use of latest ICT solutions and is "SME-friendly".

ICT research priorities have been named by „Design – Integration of new solutions, fostering ICT technologies" (2011) and "User and Energy, leveraging on ICT tools" (2012). One coordinated Call is planned to be published in the work programme 2010 where ICT is playing a major role: "ICT for energy-efficient buildings and spaces of public use (EeB.ICT.2010.10-2)".

Information about the roadmap for 'Factories of the Future' (FoF) can be found on the website of the Manufuture Technology Platform. As a reaction to the PPP initiative, European Factories of the Future Research Association (EFFRA) has been founded.

Within the draft version of the strategic FoF roadmap the European stakeholders from manufacturing industries and the related research community has identified the following strategic sub-domains:

- » Sustainable manufacturing
- » ICT-enabled intelligent manufacturing
- » High performance manufacturing
- » Exploiting new materials through manufacturing

One R&D challenge is named "ICT-enabled intelligent manufacturing" where ICT is named a key enabler for improving manufacturing at three levels:

- » Smart Factories: Agile manufacturing and customization
- » Virtual Factories: Value creation, global networked manufacturing and logistics
- » Digital factories: Manufacturing design and product life cycle management

In addition to the technical roadmap, a timeline and budget is indicated for the period from 2010 to 2013, with a total budget of €1.2 billion. A brokerage event is planned 10th December in Saint Etienne, France. Calls for 2010 have been proposed, namely:

- » Plug and Produce components for adaptive control (FoF.NMP.2010-1)
- » Supply chain approaches for small series industrial production (FoF.NMP.2010-2)
- » Intelligent, scalable, manufacturing platforms and equipment for components with micro- and nano-scale functional features (FoF.NMP.2010-3)
- » Smart Factories: ICT for agile and environmentally friendly manufacturing (including a Coordination

**Information** on the three new PPPs can be found at the Cordis website: [http://ec.europa.eu/research/industrial\\_technologies/lists/list\\_114\\_en.html](http://ec.europa.eu/research/industrial_technologies/lists/list_114_en.html)

Questions and remarks to the roadmap for EeB can be sent to [stefano.carosio@dappolonia.it](mailto:stefano.carosio@dappolonia.it) and [secretariat@e2b-ei.eu](mailto:secretariat@e2b-ei.eu). Website: [www.e2b-ei.eu](http://www.e2b-ei.eu)

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edacentrum, Hannover, Oktober 2009