



FoFdation: Foundation for the Sustainable Factory of the Future



The FoFdation Project is initiated within the 'Factories of the Future', a €1.2 billion program in which the European Commission and industry are collaborating in research to support the development and innovation of new enabling technologies for the EU manufacturing sector.

Today's major challenges for manufacturing companies are clear: -

- Managing global cooperation with multiple supply chain partners
- Achieving continuous and high quality operations under productivity pressures and environmental constraints
- Tracking and managing information in order to meet new requirements (traceability, security and sustainability)

There is also a need for a universal manufacturing information system based on a data exchange standard that can share data seamlessly in a common format. Whilst doing all of the above, factories must continue to meet the highest standards of lean, agile, flexible and sustainable production. These are the issues that the FoFdation project is keen to address.

The project envisions a 'Smart Factory' architecture and implementation which has the potential to achieve significant benefits in earlier visibility of manufacturing issues, faster production ramp-up time, faster time-

to-volume production and subsequently shorter time-to-market, reduced manufacturing costs, improved product quality, as well as sustainability objectives like reduced energy consumption and waste reduction.

FoFdation started on 1 June 2010 with a kick-off meeting taking place in Geneva. The project will run for 48 months.

OBJECTIVES:

A 'Smart Factory' architecture and implementation aiming at:

- Faster production ramp-up
- Reduced manufacturing costs & lead time
- Monitoring of sustainability parameters
- Compilation of all information into one dashboard

Inform the European Manufacturing Industry by:

- Industry driven demonstrators
- Extensive dissemination activities
- Living Lab

The FoFdation EU Project Newsletter
Issue 1 - November 2012

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Welcome to the first quarterly newsletter of the FoFdation project!

The FoFdation Focus aims to disseminate the project research achievements to all institutions and companies in the EU interested in the development and innovation of new enabling technologies for the EU manufacturing sector.

The newsletter will keep you updated on the latest developments in the project and key news from our consortium partners on a quarterly base.

Please **click here** to sign up to our email newsletter and please share it with your friends and colleagues.

“ Addressing productivity and sustainability issues in global manufacturing through a fresh and agile concept ”

Jean-Bernard Hentz, Airbus Operations SAS



This project is co-funded by the European Commission as part of the European Economic Recovery Plan (EERP) adopted in 2008. The EERP proposes the launch of Public-Private Partnerships (PPP) in three sectors one of them being Factories of the Future (FoF). Factories of the Future is a EUR 1.2 billion program in which the European Commission and industry are collaborating in research to support the development and innovation of new enabling technologies for the EU manufacturing sector.



Consortium partner meeting at Airbus SAS, Toulouse



FoFdration Consortium: the story so far

The FoFdration consortium is made up of a unique blend of partners from industry, research institutions and universities who are all highly motivated to deliver project results to European manufacturing industries. The consortium involves 16 partners from 8 different countries throughout Europe and also Korea. Partners involved are Airbus Operations (France & UK), Delcam (UK), CADCAMation (Switzerland), GFAC (Switzerland), Siemens PLM (Switzerland), ETHZ (Switzerland), ECN (France), Centro Ricerche FIAT (Italy), FIDIA (Italy), Mecadtron (Germany), IK4-Tekniker (Spain), University of Patras (Greece), Paragon (Greece), ARTIS (Germany), EPFL (Switzerland), and POSTECH (Korea). The partners are working collaboratively to achieve the project objectives through completion of nine work packages. Representatives from the European Commission, including Project Officer Rolf Riemenschneider, and Project Technical Advisors Thomas Baer (Daimler), Christoph Hanisch (Festo), Christos Emmanouilidis (CETI/R.C.) and Dominique Laffret (Messler) attended the 3rd GA meeting in November 2011 for the first contractual review. The meeting provided the opportunity for invaluable feedback, with the experience of the representatives helping partners to focus on the aims of the project. Rolf Riemenschneider said: "The FoFdration project is an ambitious and innovative project addressing future foundations of product life cycle management, production planning and management to achieve operation excellence of future factories. I am pleased to see that this consortium is addressing real industrial needs to be demonstrated in Airbus' use case which aims at integrating and optimizing its supplier's manufacturing resources for the production of aircraft parts".

WP 3, 4, 5, 6 & 7 Meetings in Ischia, Italy

18 members of the FoFdration project travelled to the Isle of Ischia in Naples, Italy, to discuss the progress of the project itself, exchange thoughts with the IFaCOM project members, and to attend the 8th annual CIRP-ICME 2012 Conference. Meetings were held for work packages 3, 4, 5, 6 and 7 with representatives from each attending. The aim of the meetings was to disclose the dissemination strategy, of which Delcam is the leader, in order to raise the profile and awareness of the project to the wider audience, and to discuss the communication between the three components that are to be developed in FoFdration: Smart Machine Controller (SMC), Smart Manufacturing Optimiser (SMO), and Smart Manufacturing Execution System (SMES). The SMC, SMO and SMES were discussed in detail with all in- and output communication between these components being defined.



WP3, 4, 5, 6 & 7 project meetings in Ischia, Italy - July 2012

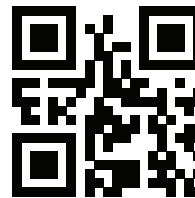
The meetings were hugely successful in sharing outcomes, and also as an open forum where face-to-face discussions could take place in a formal but friendly environment, ensuring that everyone had a clear understanding of results to date, work to be undertaken, and the direction that the project is going in. It was an enjoyable trip leaving all partners feeling optimistic about the remainder of the project and looking forward to the next meeting in Nantes, France, in October 2012.

“With the support of the European Commission, the FoFdration Consortium is able to create a solid foundation for the factory of the future.”

Van Khai Nguyen, CADCAMation

Coming soon...

- Press release of the 4th General Assembly meeting in Nantes - November 2012
- YouTube account activated - November 2012
- Issue 2 of the newsletter released - February 2013



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