



## Welcome from the Project Coordinator Dr. Odd Myklebust

It is with much excitement I start as the coordinator on the FOCUS CSA project. I have over 25 years of experience in managing larger national and international industrial R&D projects for SINTEF and NTNU in Norway. Currently I have been project coordinator of FP7-2011-NMP-ICT-FoF IFaCOM (Intelligent Fault Correction and Self-Optimizing Manufacturing Systems) which was completed in April. IFaCOM is active in the 4ZDM cluster within FOCUS. FOCUS has an important mission to determine improved ways of dissemination, exploitation and "uptake" of results for FoF projects. The FOCUS way is to develop a methodology to do this via clusters and clustering. In addition the project will hold workshops together with international experts to find new topics for the FoF H2020 within the areas of the five clusters of FOCUS;

- Zero Defect Manufacturing (4ZDM)
- Clean Factories
- Robotics
- High Precision Manufacturing (High Micro)
- Maintenance and Support

All these clusters are based on FoF projects and assembled through the processes at the FoF Impact workshops arranged by the NMP/FoF program. FOCUS builds on a belief that clustering (if you are doing the right things) can increase the dissemination and uptake of results outside the consortiums. This are important issues for the European Commission and there are also four other CSA from the same call that have started to work with these topics. The European Commission has already started the process to find synergies between the five CSA projects.

### FOCUS Main Structure

FOCUS is a methodology oriented project and will deliver a proven model and associated methodology for future effective cluster creation, execution and monitoring based upon the experience of the five participating clusters in FOCUS. This methodology will considerably ease the process of creating clusters thus maximizing the possibilities of increasing the impact of 'exploiting' cross-project synergies. FOCUS will deliver a model and associated methodology to ensure industrial exploitation and industrial take-up for future projects including guidelines for all stakeholders including the European Commission, project initiators and partners.

Another main objective is to prepare and execute expert workshops. External international experts that are not partners in FOCUS or in the five clusters will be selected and invited to join an expert workshop covering each cluster topic. The experts selected will mainly come from industry, consultancy and governmental agencies however top ranked and relevant academics will also be invited. It is expected that one cluster workshop will be arranged in Brussels by the end of this year. Distribution of results for industrial take-up and FoF priorities will be presented as Roadmaps for each cluster. More information about these will follow both on the FOCUS website and in future press releases and newsletters.

## 5 clusters



The FOCUS Project Newsletter  
Issue 2 - June 2015

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## Welcome to the second quarterly newsletter of the FOCUS project!

The FOCUS on FoF newsletter will keep you updated on the latest developments in the project and key news from our consortium partners on a quarterly base. It will also serve to raise awareness of the tangible outcomes and successes of projects within the participating clusters.

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

“As we are finding out more about each of the clusters, we are learning what has been most effective for dissemination and use this collated information to define an optimum methodology and recommendations for future projects.”

Ro Green, Delcam,  
Dissemination Manager



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.

## Progress within the project so far after an exciting first quarter

FOCUS had its kick off meeting in February and has already published its website, two Newsletters and six press releases. FOCUS has also been presented at different events arranged by the clusters and some of the clusters have arranged their own events. All the clusters will be presented in the press releases. The first activities have also started concerning current awareness and definition of FoF priorities:

- Pro-active support to the projects in the participating clusters to disseminate the project's tangible outcomes to now raise the awareness and thus increase on a short term the industrial exploitation and take-up.
- Establish models for new forms of dissemination.
- Elaborate on the common ground of the clusters to establish a European state-of-the-art and world-wide technology watch to inform the European manufacturing industry constantly while also formulating now (with support from cluster specific top-ranked experts) the future FoF priorities based upon jointly identified business trends and market prospects.

The FOCUS project has started well with a motivated and experienced consortium. We will keep you informed during the project execution about events and results.

### Partner Profiles



One of the world's leading innovators of CAD/CAM software and the market leader in 3D design and the manufacture of complex shaped products, parts and tools. Delcam's comprehensive range of CAM

software solutions such as PowerMILL, FeatureCAM and PartMaker, its PowerSHAPE solution for CAD and PowerINSPECT solutions for metrology, are used worldwide from the largest multi-national corporations to the smallest tool shops, as well as in educational establishments and research institutes.

Delcam's software is used in the aerospace, automotive, composites, medical, dental, electrical appliance, marine, packaging, shoe and toy industries. Delcam's software is used by more than 40,000 organizations in over 80 countries. Delcam participates in many national and European research projects to incorporate state-of-the-art current and future technologies for the benefit of its customers. With over 200 developers, Delcam has the largest R&D department of any specialist CAM software provider.



IK4-IDEKO is an industry driven Spanish Technological Centre, specialised in machine tools and manufacturing technology with the aim to promote technological innovation of its customers.

Founded in 1986, with over 100 highly qualified engineers with proven experience in the sector, IK4-IDEKO has the skills to understand, assimilate and develop and improve technological solutions, with a clear orientation towards the transfer of research results to the market.

## The ZDM conference in Oslo 22. April

One major event in the start-up period of FOCUS was the 4ZDM conference in Oslo in conjunction with the finishing of one of the 4ZDM projects, IFaCOM.



All of the four cluster projects presented their results and pointed out the importance of a Zero Defect manufacturing strategy. IFaCOM partners presented the five demonstrators from the project. The demonstrators come from the European Aerospace and Machine Tool industries and all of them can through the industrial demo implementations show significant reductions in scrap rate and cost reductions in the selected manufacturing processes.

Professor Westkämpfer, University of Stuttgart/Fraunhofer-Institute IPA, Stuttgart, High Level Group TP ManuFuture, stated in his key note presentation that Zero Defect Manufacturing is also another opportunity to compete by customisation in manufacturing:

- Customised mass production near markets
- The dimensions of quality increase
- Individualism
- Spectrum of technologies

More information on the 4ZDM cluster and its participating projects can be found on the FOCUS website ([www.focusonfof.eu/news.asp](http://www.focusonfof.eu/news.asp)).



*The Conference was a huge success with experts attending from all over Europe. It provided a unique opportunity for networking to discuss the future of Zero Defect Manufacturing, and how the project results and findings can be implemented into real-life situations.*

**Odd Myklebust, Project Coordinator**



### Coming soon...

- Press release of High Precision Manufacturing Cluster - June 2015
- Press release of Robobusiness 2015 & MEC SPE - June 2015
- Issue 3 of the newsletter released - August 2015



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