

Project Update

February 2013

ADVENTURE gets introduced

The project commenced the 1st September 2011 and lasts for 3 years. The goal is the creation of an ADaptive Virtual ENTERprise ManufacTURING Environment that provides tools to combine factories in a plug-and-play fashion to manufacture particular products with user-friendly editing tools. This includes the creation of manufacturing processes, business partner discovery as well as real-time monitoring of executed processes.

ADVENTURE gets serious

The first year of the project is over, and much has been achieved. A market study has been conducted, the use-cases have been examined and refined, the overall architecture has been defined, technical specifications have been made, and first prototypes of the component have been created. On the collaboration part, joint workshops have been planned; collaborations with the FinES cluster have been started. ADVENTURE is at full throttle.

ADVENTURE gets collaborative



You can meet us at The International Conference Flexible Automation and Intelligent Manufacturing (FAIM) conference is the leading international forum to disseminate information on the most recent and relevant research, theories and practices in the fields of automation and manufacturing. The 23rd FAIM will be held in Porto (Portugal) during 26-28 June, 2013, for more info visit <http://www.faim2013.org>.

The 1st ADVENTURE Workshop will take place on 28th of June from 9 AM to 1 PM at FAIM, and will present the following events:

- ∞ Keynote: "Challenges for Better Sustainable Manufacturing", by Prof. Lihui Wang from University of Skövde, Sweden;
- ∞ ADVENTURE project presentation;
- ∞ ADVENTURE round table, where science meets business to discuss ideas and concepts related to ADVENTURE project;
- ∞ ADVENTURE live demo, where the project prototypes will be presented.



ADVENTURE gets real

The project refined its use cases to focus on two real-world environments accompanied with a set of hands-on activities stemming from a use-case competition to show the practical applicability of ADVENTURE. The results of the competition have not been determined yet, but if you follow our news, the competitions winner will be mentioned there.

ADVENTURE gets public

On the project website you can find the following documents (<http://fp7-adventure.eu>):

- D2.1 Project Vision Consensus Document*
- D2.2 Target Market Sector Descriptor*
- D2.3 Requirement Analysis Report*
- D3.1 Global Architecture Definition*
- D3.2 Functional Specification*
- D3.3 Technical Specification*
- D7.1.1 User Interviews Feedback Report*



UNIVERSITY of VAASA



www.fp7-adventure.eu
contact@fp7-adventure.eu



D7.1.2 Use Case Specification
 D8.3.1 Scientific Dissemination Report 1
 D8.5.2 Report on Cluster Activities 1
 ADVENTURE Glossary
 First ADVENTURE newsletter
 ADVENTURE Banner
 ADVENTURE Flyer 1

Additionally to the papers on the last years' newsletter, the following publications were published by project members as part of the project:

- ∞ Virtual enterprise management: perspective of process-based business collaboration
- ∞ Strategy for virtual factory information system design

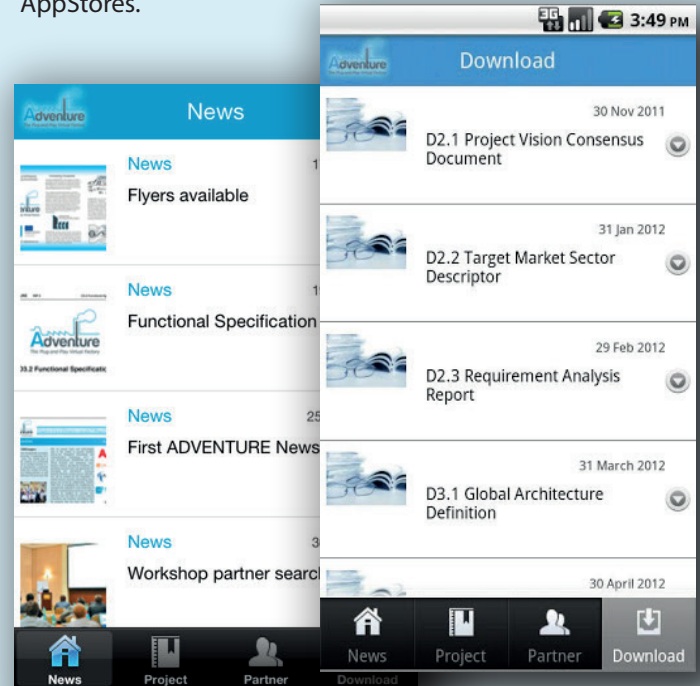
The following papers were accepted for the FAIM conference 2013:

- ∞ Business process monitoring and management in virtual enterprise through interactive user interface layer
- ∞ Designing of cloud-based virtual factory information system
- ∞ Process Performance Assessment in Collaborative Manufacturing Environments: A Role Oriented Approach
- ∞ Enabling Virtual Manufacturing Enterprises with Cloud Computing – An Analysis of Criteria for the Selection of Database as a Service Offers

Further information can be found on the website:
<http://www.fp7-adventure.eu/wiki/pubs.php>

ADVENTURE gets mobile

Besides the projects' website and an e-mail newsletter, now you can even keep yourself updated with our mobile information app where all news and also the deliverables are accessible. Just search for "EU FP7 ADVENTURE" in the iOS or Play AppStores.



Since the first and very successful **ADVENTURE** review in month 12 in Darmstadt, many prototypes of the **13 components** have been demonstrated, some samples are shown on the right.

∞ **Cloud Storage** and **The Message Exchange Platform** are infrastructure components that let other ADVENTURE components communicate and store data.

∞ The **Data Provisioning and Discovery** component manages data of Virtual Factories and partners.

∞ The **Process Designer** lets users create processes that the **Adaptive Process Execution** can execute, while the **Gateways** translate the process execution flow to the factory systems.

∞ The **Dashboard** and the **Process Monitoring** visualize the process for the users, with the help of the **Smart Object Integration** that reports data for all kinds of involved sensor systems.

