



Networked Enterprise transformation and resource management in Future internet enabled Innovation CloudS

The main objective of NEFFICS is to support networked enterprise transformation and resource management in future internet enabled innovation clouds. This will be achieved by providing a cloud-based Software platform, with associated methods and models for Networked Business operations, linked to relevant Innovation processes, for enabling Networked Enterprises to become Highly Innovative and Flexible and Agile in business transformation and resource management (including processes, products, services and persons).

Project objective

The objective of NEFFICS is to provide a new software platform as a basis for a new innovation driven ecology for networked enterprises, extended on top of an established cloud-based, software-as-a-service business operation platform, combined with an advanced innovation management software platform. The business context and value of the new platform is demonstrated and validated in enterprise communities in two major European industrial sectors, through optimising their operational performance and innovation capacity. Open Business Model Innovation and process/service/product innovation is managed and measured to demonstrate value generation at the business level.

The work in NEFFICS is driven by the needs of two user communities: Virtual Factory Network through Vlastuin, and Liquid Hospital through the Hospital Sant Juan de Déu. Additional communities will be involved. Methodology and model support is provided for Business Value Analysis Models from IC Focus, Networked Innovation Models from ICI of Aalborg University, and Enterprise Process and Service Models from SINTEF. Two European software companies, Cordys and Induct, provide respectively the cloud-based business operations

At a Glance

Project:

NEFFICS - Networked Enterprise transformation and resource management in Future internet enabled Innovation CloudS

Project coordinator

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Partners:

Norway	SINTEF, Induct Software
Netherlands	Cordys, Vlastuin
Spain	Hospital Sant Juan de Déu
UK	IC Focus
Denmark	Aalborg Innovation Center

Duration:

36 months from 01.09.10 to 01.09.13

Total cost: 4.2 M Euro

Programme:

Theme 1.3b Networked Enterprises.

Further information:

<http://www.neffics.eu/>

and SaaS-based innovation community platforms. Their current offerings is enhanced and integrated with other NEFFICS results to support, on a massive scale, enterprise transformation to innovative value networks.

The project is actively involved in establishing international standards from OMG in the areas of value analysis models, business service/process models, and knowledge process/case management models; and European standards from the new European CEN TC389 on innovation management, ensuring their suitability for networked enterprises.

TECHNICAL APPROACH

The NEFFICS platform is based on the Cordys Business Operations and MashApp platform¹, combined with the Induct Innovation Community platform². The Cordys Business Operations Platform (BOP) enables organizations to design, execute, monitor, change and continuously optimize critical business processes, services, applications and operations wherever they are deployed. It is web-based and fully SaaS enabled, and supports modelling and management of business processes. The Induct Innovation Community Platform (ICT) enables the creation of virtual social software-based innovation communities where ideas and challenges meet experience and knowledge. The platform supports creation, management, and measurement of the entire innovation processes, including customizable task management, ensuring that steady progress

toward goals is being maintained. The NEFFICS platform integrates functionality of both platforms using a service-oriented interoperability approach over a cloud-based infrastructure.

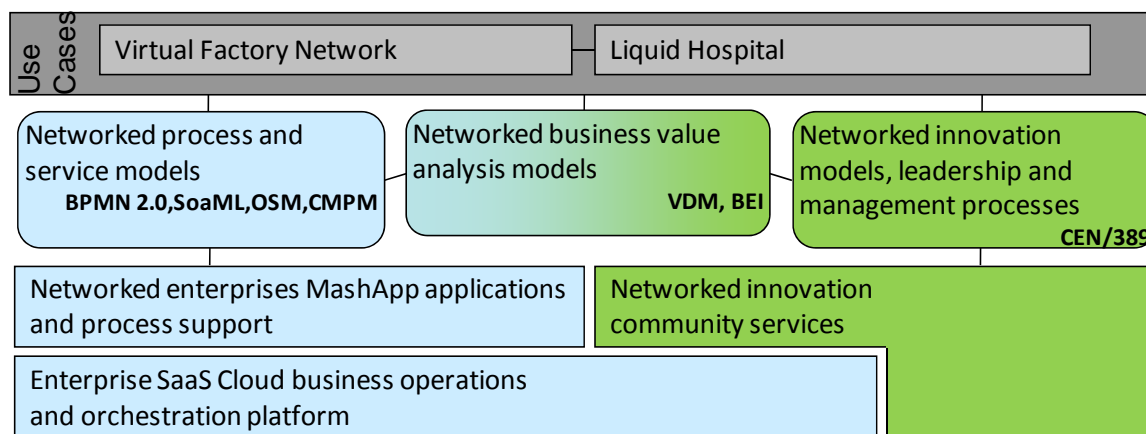
Methods and models are also provided. Networked business value and analysis models are linked with process and service models (to identify bottleneck and improvement areas) and with open innovation models (see figure).

TWO INDUSTRIAL PILOTS

The NEFFICS project derives user requirements and validates results on two industrial user pilots.

One pilot is a virtual extended factory for a business network with integrated semantic sensor/Rfid information through Vlastuin. With NEFFICS, monitoring, executing and improvement of Value Chain Processes is done for (part of) the whole business network. From a total business network perspective this will be a more optimal approach and as such add new value to the business network.

The second pilot is a Liquid Hospital through Hospital Sant Juan de Déu (HSJD). Until recently, HSJD had a long standing innovation process in place that was well-established. The only bottleneck was that most operations were done in physical interactions. With NEFFICS, the management of the innovation processes is through the NEFFICS platform. Business model innovation becomes a requirement of the innovation process at HSJD.



¹ http://www.cordys.com/cordyscms.com/business_operations_platform.php

² <http://www.inductsoftware.com/InductWeb/index.aspx>