

# COIN

Enterprise Collaboration & Interoperability  
EU FP7 ICT Integrated Project 216256



**VISION:** By 2020 enterprise collaboration and interoperability services will become an invisible, pervasive and self-adaptive knowledge and business utility at disposal of the European networked enterprises from any industrial sector and domain in order to rapidly set-up, efficiently manage and effectively operate different forms of business collaborations, from the most traditional supply chains to the most advanced and dynamic business ecosystems.

**MISSION:** The mission of the COIN IP is to study, design and develop an open, self-adaptive, generic ICT integrated solution to support the above 2020 vision, starting from notable existing research results in the field of Enterprise Interoperability and Enterprise Collaboration.

## THE COIN METAPHOR

**MOTTO:** Enterprise Interoperability and Enterprise Collaboration are the two sides of the same COIN.

### Background and Motivation

Enterprise Collaboration (EC) and Enterprise Interoperability (EI) have been the two major research catalysts for DG INFSO D4 “Networked Enterprise & Radio Frequency Identification (RFID)”, and aggregated tens of projects and hundreds of researchers in their projects clusters initiatives. COIN is rooted in the previous initiatives.

**Enterprise Collaboration** comes from a business perspective and identifies the process of enterprises – mainly SMEs – to set-up and manage cross-enterprise win-win business relations in response to business opportunities;

**Enterprise Interoperability** originated by the ICT world and identifies the capability of enterprise ICT and non-ICT systems to share information and to mutually understand the meaning of the information exchanged.

COIN promoters believe that EC and EI are different concepts which cannot be merged or confused but that they are so interdependent and simultaneously present in every networked enterprise, that they can be really considered as the **two sides of the same COIN**.

By achieving the COIN main objective of EC/EI interplay, COIN will contribute to bridge the gap between heterogeneous Business and IT knowledge, people and competences necessary to develop collaborative networks and virtual organizations..

### Side A of COIN: Enterprise Collaboration Services

A field of activity with the aim to support Networked Enterprises to do business together through ICT

- Expose proper views of internal competencies
- Discover collaborative business opportunities
- Look for complementary partners/competencies
- Set-up, operate and govern Virtual Organizations

### Side B of COIN: Enterprise Interoperability Services

The ability of two or more systems or components to exchange information and to use the information that has been exchanged

- Data formats and business documents exchange
- Service discovery, selection and composition
- Collaborative Business Processes synchronization
- Enterprise models harmonization and consolidation

### The Metal of COIN: Generic Service Platform

COIN business-pervasive open-source service platform will be able to expose, integrate, compose and mash-up in a secure and adaptive way existing and innovative to-be-developed Enterprise Interoperability and Enterprise Collaboration services.

### The Value of COIN: SaaS-U Business Model

Going beyond SaaS (Software as a Service, i.e. the delivery of application functionality via a subscription model), the COIN visionary SaaS-U Business Model foresees the provision of EI/EC services as an Utility and a Public Good at disposal of any European enterprises, SMEs in particular.

**The Market of the COIN:** All the European Manufacturing sectors, with particular focus on SMEs

## THE COIN FUNNEL PARADIGM

COIN represents the synthesis and convergence point for more than five years research projects about EI and EC. This collaborative funnel paradigm allows COIN to deliver the first software results just in the first year, by consolidating and integrating existing results into the innovative COIN metaphor. External contributions in this perspective are more than welcome.



### The COIN IP main 5 Objectives

1. To design and develop a pervasive, adaptive **Service Platform** to host Baseline and Innovative COIN services for EI and EC and make them available under innovative on-demand, utility-oriented business models (i.e. the SaaS-U model) to European enterprises (and SMEs in particular) for running their business in a secure, reliable and efficient way.
2. To consolidate and stabilize the ICT results of both EC and EI FP6 research into some **Baseline Services** which constitute the service foundations for COIN.
3. To further enlarge, extend and improve the baseline services, by developing other more **Innovative Services** in the EC and EI fields, which could take into account the most recent and promising technology challenges (in the field of Web 2.0, semantic web, space computing) and put them at service of EC and EI purposes.
4. To represent a **pathway to convergence** for these two fundamental research streams: **EI and EC**, by integrating in the same project the most prominent stakeholders of the two research fields coming both from industry and from universities and research centers.
5. To demonstrate, experiment, trial and assess the project results into realistic **Industrial Scenarios** offered by our 6 test cases in Aeronautics, Automotive, Aerospace, Pulp & Paper, Healthcare and ICT.

### COIN Consortium

- **TXT e-solutions S.p.A** (Italy)
- **VTT Technical Research Centre of Finland** (Finland)
- **Jozef Stefan Institute** (Slovenia)
- **IC Focus Limited** (United Kingdom)
- **Atos Origin Sociedad Anonima Espanola** (Spain)
- **ESoCE-NET, European Society of Concurrent Enterprising Network** (Italy)
- **CNR Consiglio Nazionale delle Ricerche** (Italy)
- **UIBK Universität Innsbruck** (Austria)
- **Siemens Aktiengesellschaft Österreich** (Austria)
- **Technische Universität Wien** (Austria)
- **Soluta.Net S.R.L.** (Italy)
- **ESI Fundacion European Software Institute** (Spain)
- **Sintef** (Norway)
- **DFKI Deutsches Forschungszentrum Für Künstliche Intelligenz GmbH** (Germany)
- **BIBA Bremer Institut Für Produktion und Logistik GmbH** (Germany)
- **ISOIN Ingeniería y Soluciones Informáticas del Sur S.L.** (Spain)
- **Poyry Forest Industry Oy** (Finland)
- **Interactive Net Design Kereskedelmi és Szolgáltató Kft.** (Hungary)
- **VEN Process Limited** (United Kingdom)
- **Societa Finanziaria Laziale Di Sviluppo FI.L.A.S. S.p.A.** (Italy)
- **Gospodarsko Interesno Zdruzenje ACS Slovenski Avtomobilski Grozd** (Slovenia)

### Project Coordinator

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