

# COIN

Enterprise Collaboration & Interoperability  
EU FP7 IST IP 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 a capability of enterprise software and applications to be integrated at the level of data, applications, processes and models. 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**.

### Side A of COIN: Enterprise Collaboration

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

- Focus on core competencies
- Expose proper views of internal competencies
- Discover collaborative business opportunities
- Look for complementary competencies

### Side B of COIN: Enterprise Interoperability

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

### Metal of COIN: Service Platform

COIN business-pervasive open-source generic 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.

### Value of COIN: Software as a Service Utility (SaaS-U)

Software as a Service is the delivery of application functionality via a subscription model. The customer does not take ownership of the software but rather ‘rents’ a total solution that is delivered remotely.

### Market of COIN: Manufacturing Enterprises (mainly SMEs)

### Project coordinator

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## 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.

### Interoperability Service Utility

The Information Technology vision of Software as a Service (SaaS) will find its implementation in the field of interoperability among collaborative enterprises, supporting various collaborative business forms, and becoming for them like a utility, a commodity, the so-called Interoperability Service Utility (ISU).

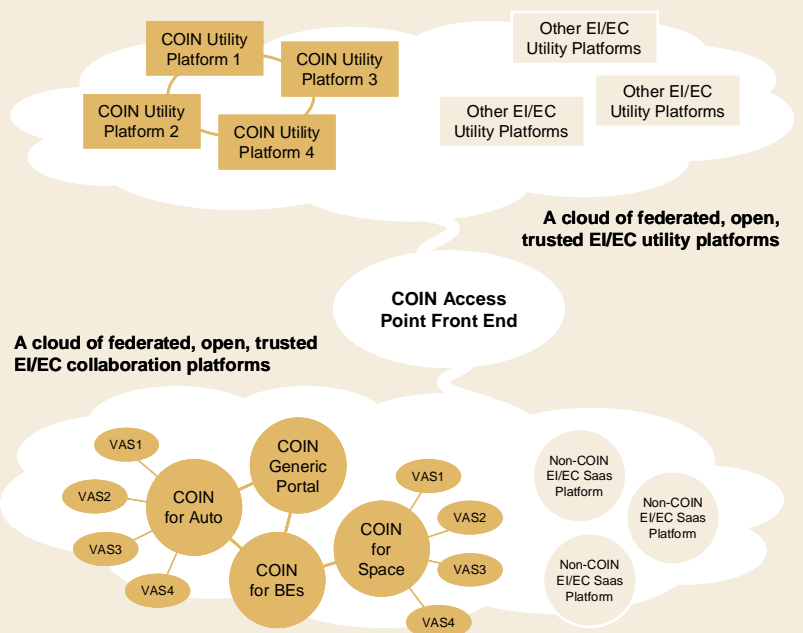
### The COIN System

There are three main components of the COIN system.

The first cloud of open COIN and non-COIN **Utility Platforms** (providing utilities for service development, registration, publication, search & discovery, orchestration & execution) federated by EI/EC interoperable ontologies forms the COIN Utility Infrastructure.

The second cloud of domain- and sector-specific COIN and non-COIN **Collaboration Platforms** provides Supply Chains, Collaborative Networks and Business Innovation Ecosystems with advanced **Value Added Services** supporting the whole product/service life cycle and collaboration phases.

A unique COIN Access Point allows human and IT consumers to access the services provided by both clouds while a COIN cloud-to-cloud middleware supports the communication and interoperability of the two clouds.



### Partners

- **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 FIL.A.S. S.p.A.** (Italy)
- **Gospodarsko Interesno Zdruzenje ACS Slovenski Avtomobilski Grozd** (Slovenia)

### COIN-EEU Pilots

- **Universitatea Politehnica Din Bucuresti** (Romania)
- **Favit Network Ltd** (Bulgaria)
- **Wirelessinfo** (Czech Republic)
- **Kauno Technologijos Universitetas** (Lithuania)
- **University Of Cyprus** (Cyprus)
- **Loder Logistics Association of Turkey** (Turkey)