

## Technology Providers



SAP, Germany

CAS Software, Germany



SingularLogic

SingularLogic,  
Greece

InformatiX, Hungary



BEELC Polska, Poland

## Research Institutes



Institute of Communication and Information  
Systems, Greece

Budapest University of Technology  
and Economics, Hungary



South East European Research  
Centre, Greece

Technical University of Koszalin,  
Poland



## Innovation Transfer Bodies



STEINBEIS  
Foundation

Steinbeis Transferzentrum,  
Germany

Bulgarian Chamber of  
Commerce and Industry, Bulgaria



## End Users



Germanos Group, Greece

GROUP OF COMPANIES

Interjob, Hungary

*Int@rJob*



PHAROS, Bulgaria

## Project Facts

Contract No:	FP6-ICT-027385
Starting date:	1 <sup>st</sup> Feb 2006
Duration:	30 months
Project Web site:	<a href="http://www.fusion-strep.eu">http://www.fusion-strep.eu</a>
EU Funding:	2.78 million €
Leading Partner:	SAP
Project Coordinator:	Dr Andreas Friesen (SAP), <a href="mailto:andreas.friesen@sap.com">andreas.friesen@sap.com</a>
Scientific Coordinator:	Prof Gregoris Mentzas (ICCS), <a href="mailto:gmentzas@mail.ntua.gr">gmentzas@mail.ntua.gr</a>

# FUSION

## General Project Information

# FUSION - Business Process Fusion based on Semantically-enabled Service-Oriented Business Applications



## Introduction

### FUSION - Business process fusion based on semantically-enabled service-oriented business applications

FUSION aims at promoting the realisation of collaborative business processes among and within enterprises by delivering an effective and efficient approach for the semantic integration of heterogeneous service-oriented business applications.

FUSION is a STREP project coordinated by SAP AG and its consortium comprises 14 partners from 5 European countries (Germany, Poland, Greece, Hungary, and Bulgaria), including research institutes, technology developers, innovation transfer bodies, and end-users.

## FUSION Objectives

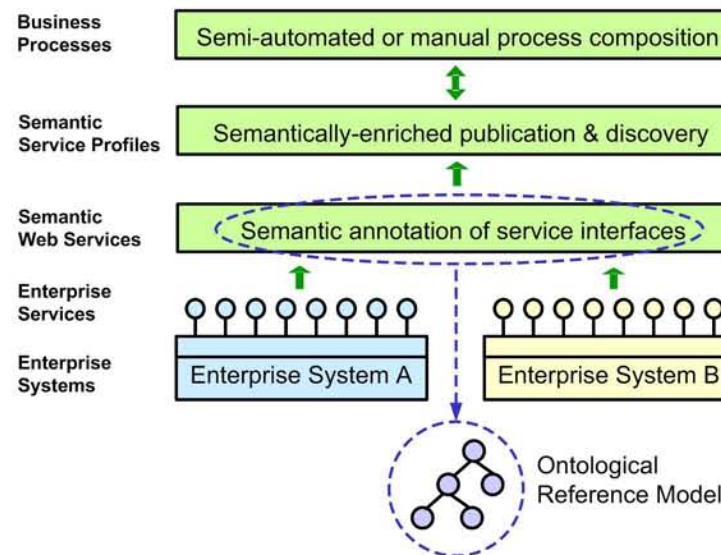
The objectives of FUSION are three-fold:

- Development of an innovative approach, methodology and integration mechanism for the semantic fusion of heterogeneous service-oriented business applications.
- Integration of research activities carried out in the Enlarged Europe in the areas of Business Process Management, Semantic Web and Web Services.
- Validation of research results through proof-of-concept pilots in collaborative value networks across the Enlarged Europe (three cases of transnational collaborative networks).

## Overview of the Approach

Business process integration with FUSION is achieved through a four-step procedure:

1. Business application functionality is exposed as a set of Enterprise Services with standards-based Web Service interfaces.
2. Service interfaces are semantically annotated with concepts from the FUSION Ontology, a shared ontological reference model facilitating the representation of entities involved in an EAI scenario (data, services and processes).
3. The annotated service interfaces are published in a semantically-enriched service registry supporting capability-based matchmaking.
4. Business processes are semantically modelled as abstract process templates, grounded to real services through discovery, orchestrated in a semi-automated or manual way, and stored in the form of executable processes in a process execution engine.



## Expected Results

The results to be obtained from FUSION can be summarized in the following:

- **FUSION Reference Framework:** The definition of an innovative approach for business process integration among and within enterprises having heterogeneous system infrastructures, and the conceptualization of the approach in the form of a reference framework.
- **FUSION Methodology:** The development of a systematic methodology for the semantic fusion of service-oriented businesses applications, offering process guidance on the path to both intra- and inter-organisational Enterprise Application Integration.
- **FUSION Integration Mechanism:** The realisation of a set of tools constituting an implementation of the FUSION Reference Framework and enabling the user to perform all necessary activities towards the fusion of business processes that rely on Semantically-enabled Service-oriented Business Applications.
- **FUSION Pilot Cases:** The application of the overall solution to three individual cases of European enterprises that are in need of solutions for establishing intra- or inter-organisational collaborative business processes, thus validating the project results and proving the feasibility of the overall approach.