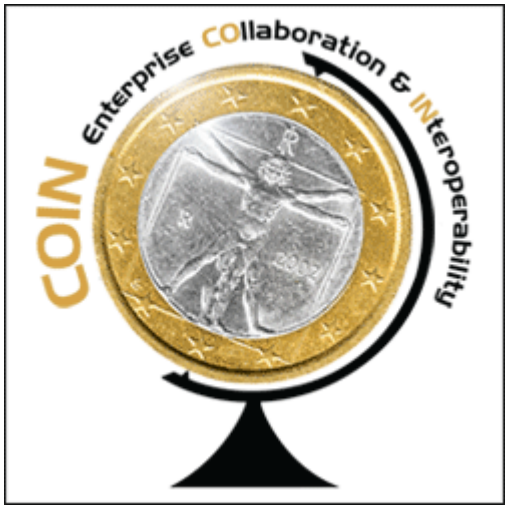
ICE
16th International Conference on Concurrent Enterprising
Leiden – The Netherlands, 22-24 June 2009
2009

Enterprise COllaboration & INteroperability



COIN4Llabs

COIN Collaborative Product Development Services

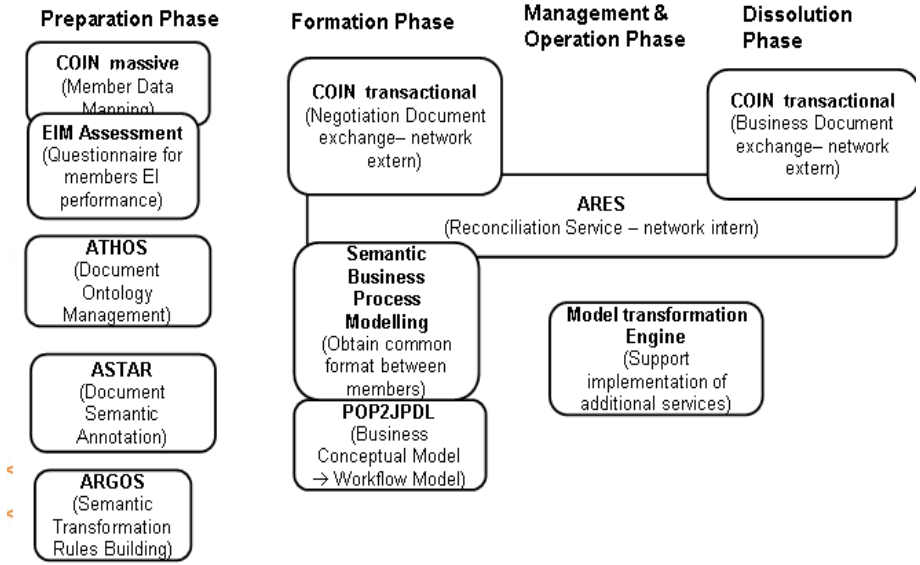
Noordwijk, June 24th 2009

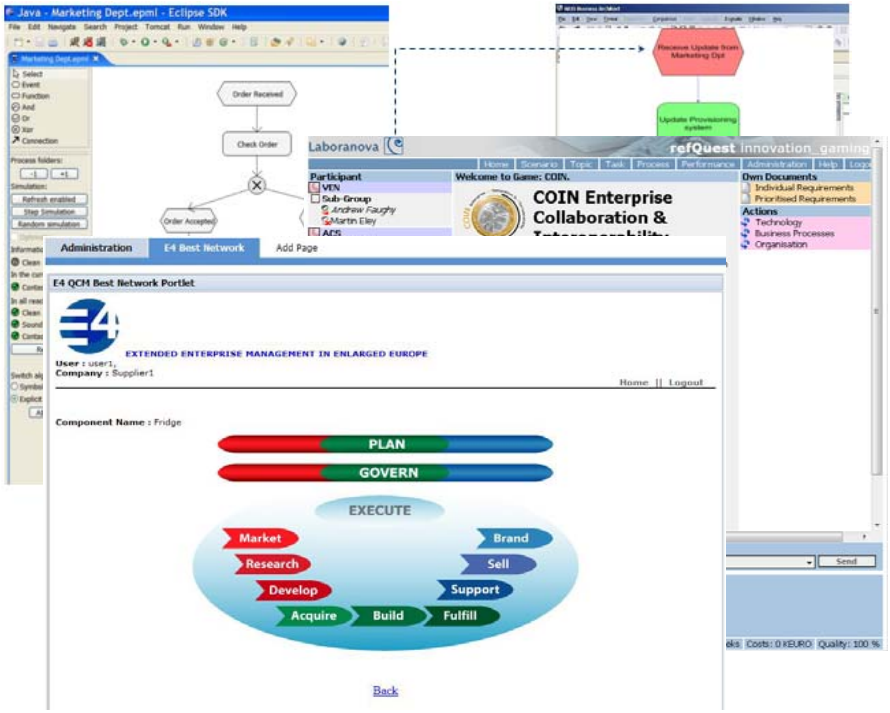
Alberto Olmo
ISOIN

The COIN EI/EC Solutions

Baseline Services

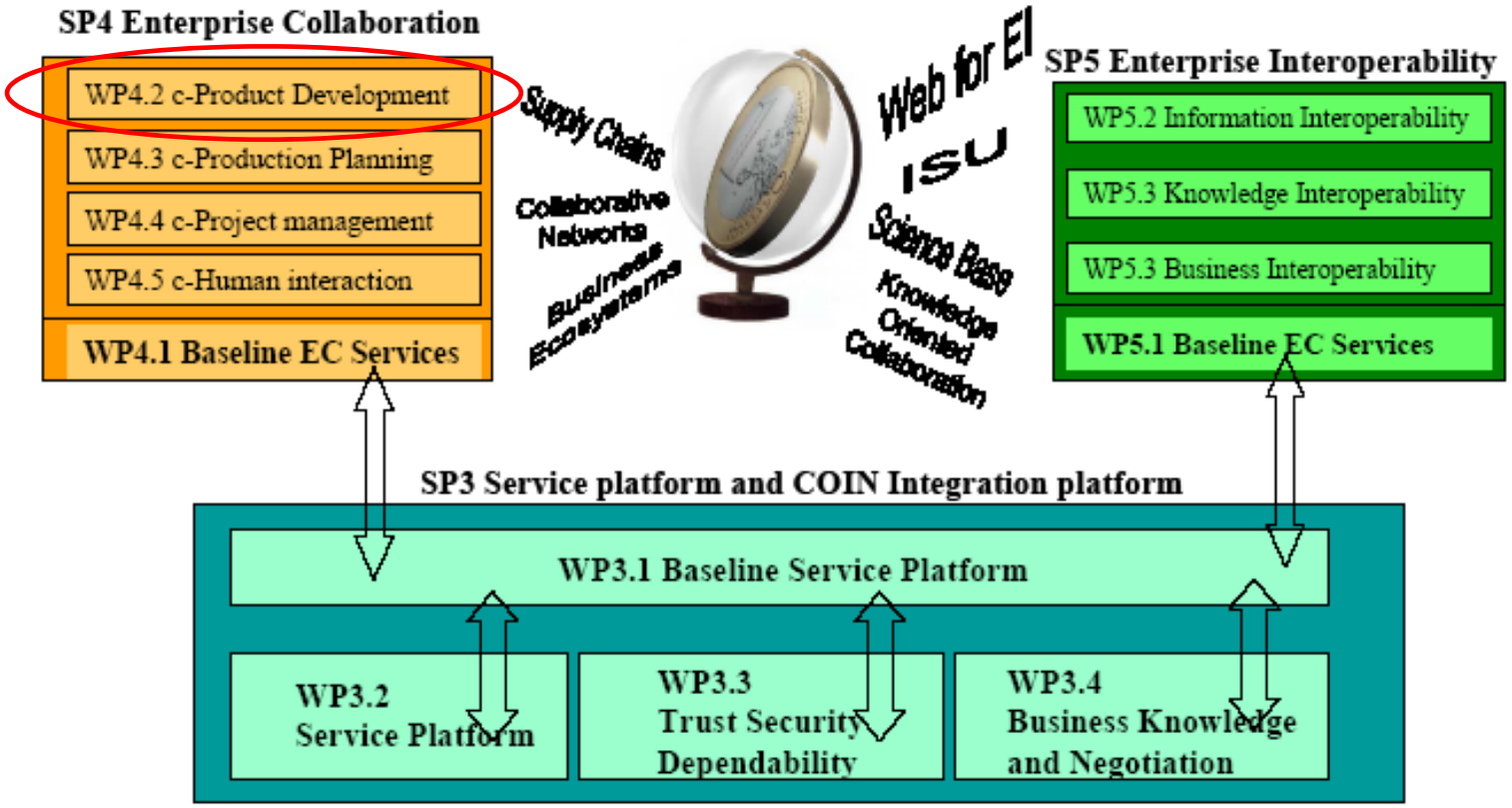
EC/EI services from other EU projects available in COIN to fulfill the end user specific requirements





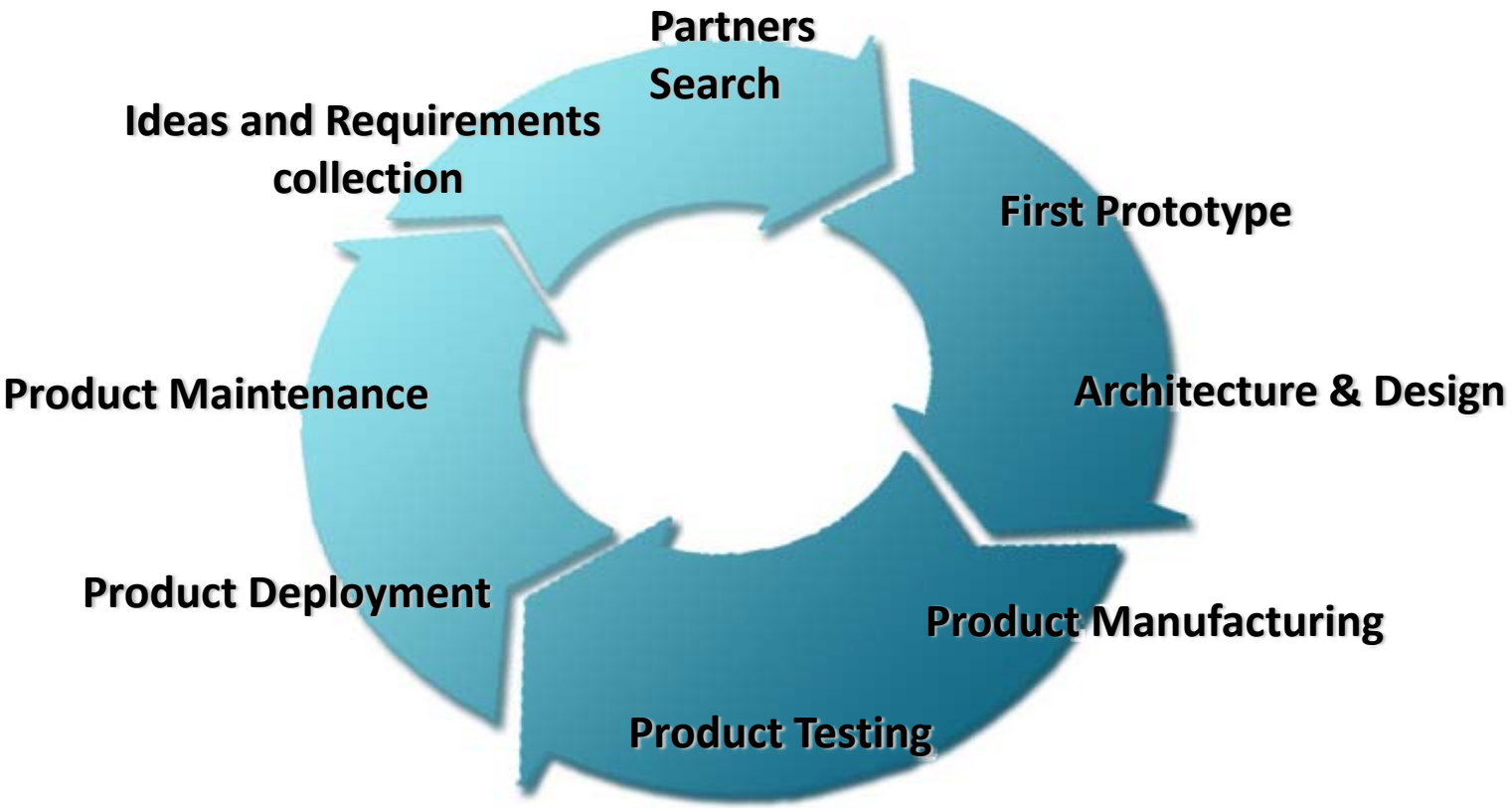
The COIN EI/EC Solutions

Innovative Services



Collaborative - Product Development Services

COIN C-PD services in PLM Lifecycle



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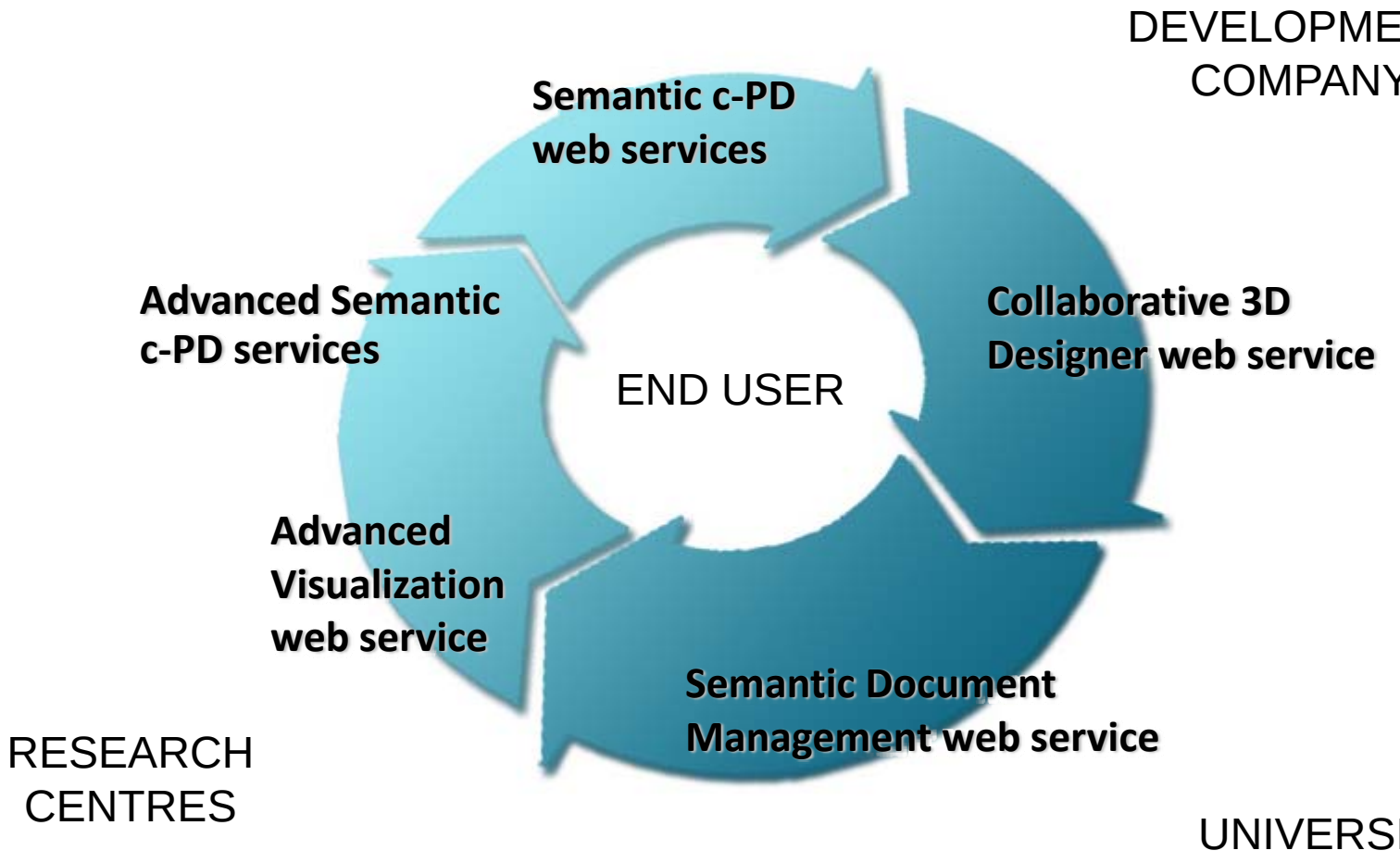
COIN C-PD services in PLM Lifecycle



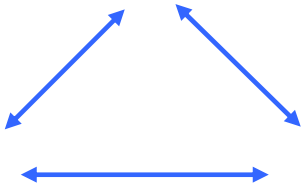
Collaborative - Product Development Services

- Semantic c-PD web services

Objectives:

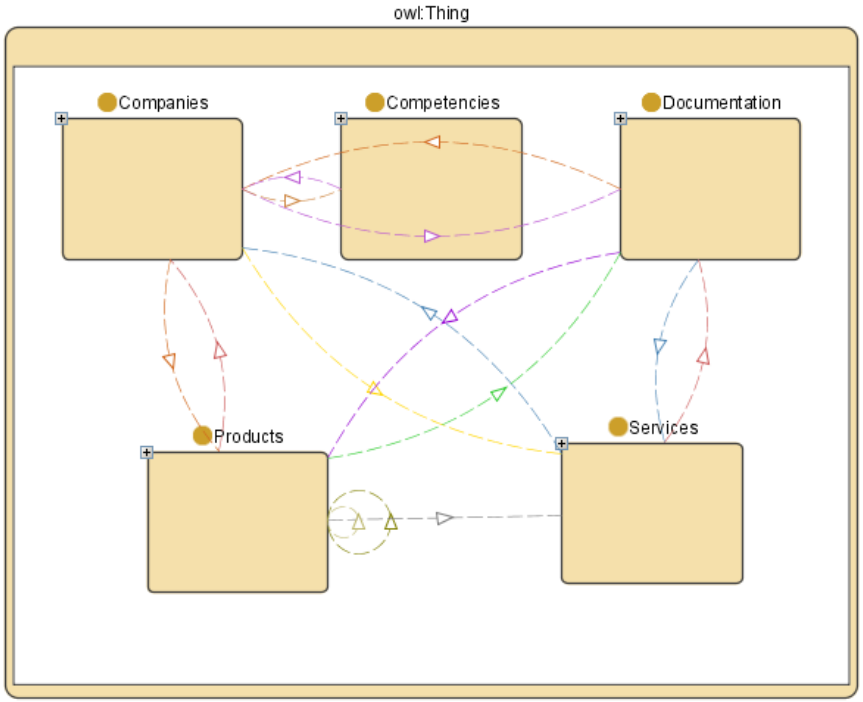
– **Semantic search for products or services** needed in the product development process, based on the product structure ontology. **Semantic search for companies** that provide the required product / service in a product development process, taking into account related competences.

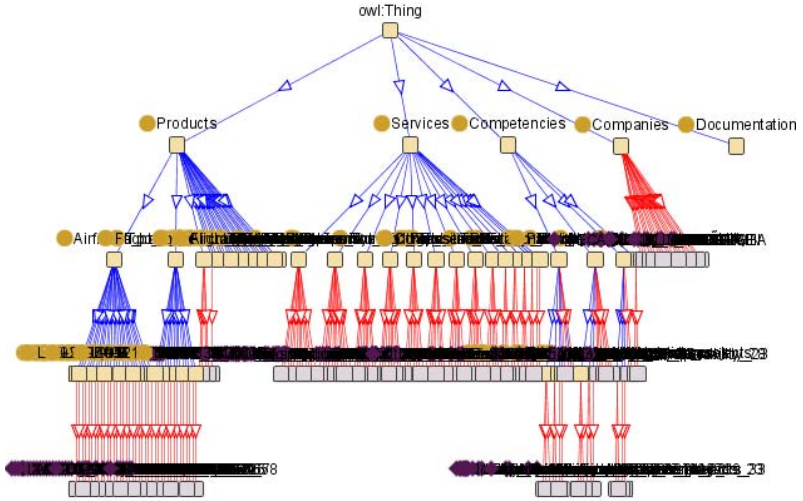
– **Semantic search for products or services in the cluster,** with the possibility for the end user to rank them and propose new requirements or new business opportunities.



Collaborative - Product Development Services

- Semantic c-PD web services

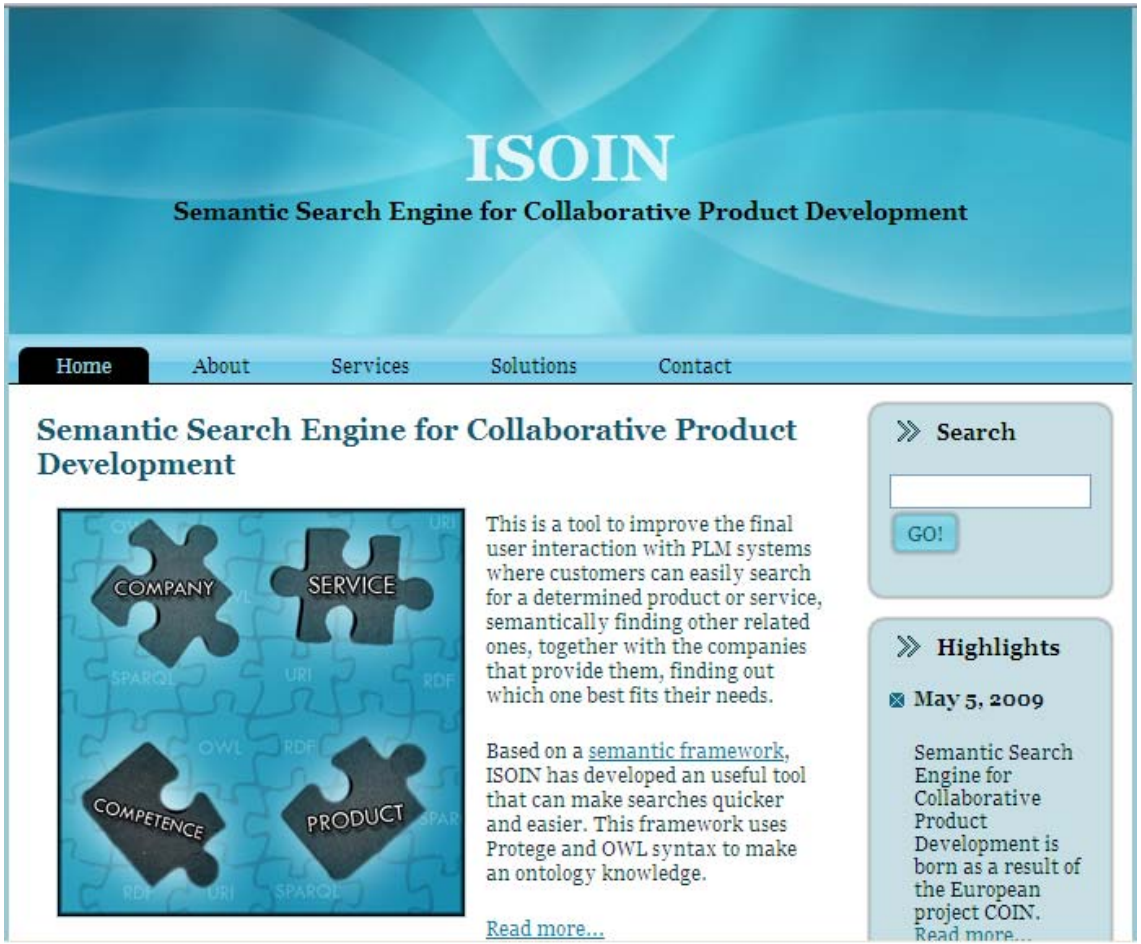




Semantic searches are based on a product and service ontology built for the cluster

Collaborative - Product Development Services

- Semantic c-PD web services



Collaborative - Product Development Services

- Advanced semantic c-PD web services

Objectives:

– **Adaptability** to different clusters and collaborative networks systems, searching for **openness** and **end user-friendly** features.

– **Automatic building of the ontology**, based on **relational databases** used in the cluster

– **Automatic building of the ontology**, based on **unstructured data**

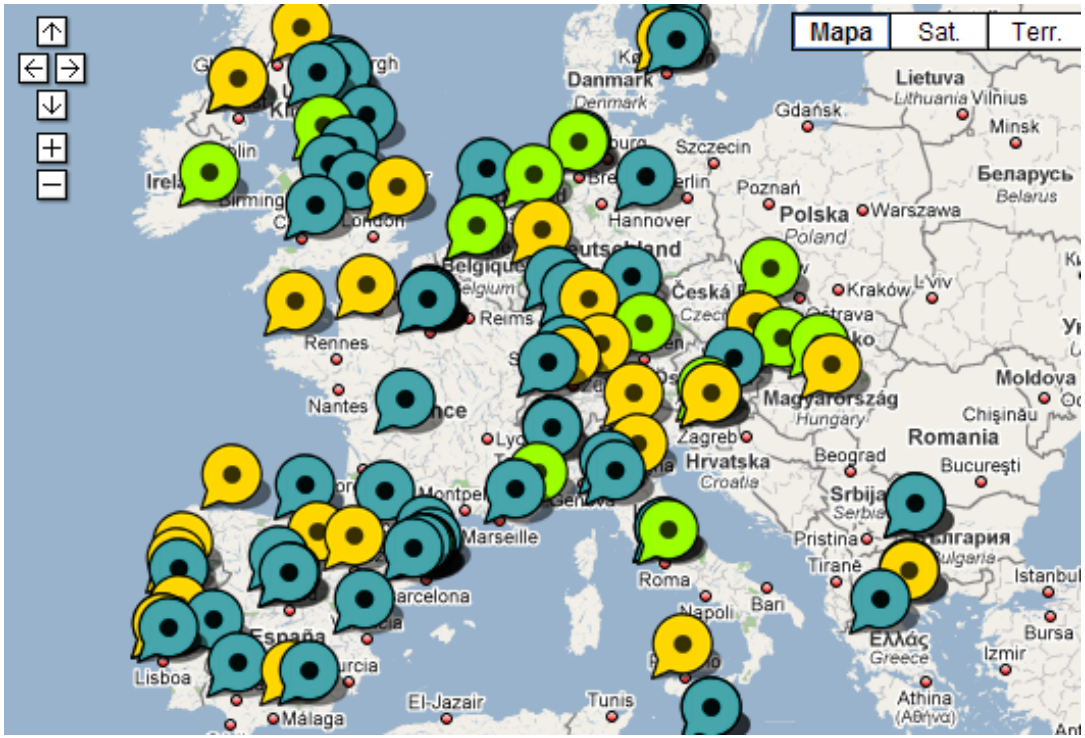
– **Automatic instantiation of the ontology**, based on **cluster documents**

Collaborative - Product Development Services

- Advanced semantic c-PD web services

Objectives:

– **Adaptability** to the European Network of Living Labs, providing a semantic treatment of an increasing amount of information.



Collaborative - Product Development Services

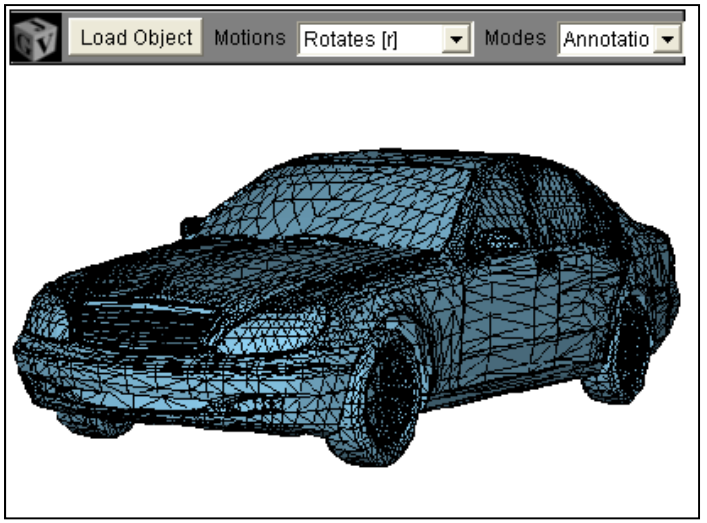
- Collaborative 3D designer web service

Objectives:

– Dissemination **of 3D product designs** and **automatic end user requirements collection and classification**, for analysis and semantic search.

– Web service to support **visualization, annotation and inspection of design models** in multidisciplinary and distributed teams.

- **Integration** of data with the cluster **ontology**, with related documents, companies, services or products



Collaborative - Product Development Services

- Collaborative 3D designer web service

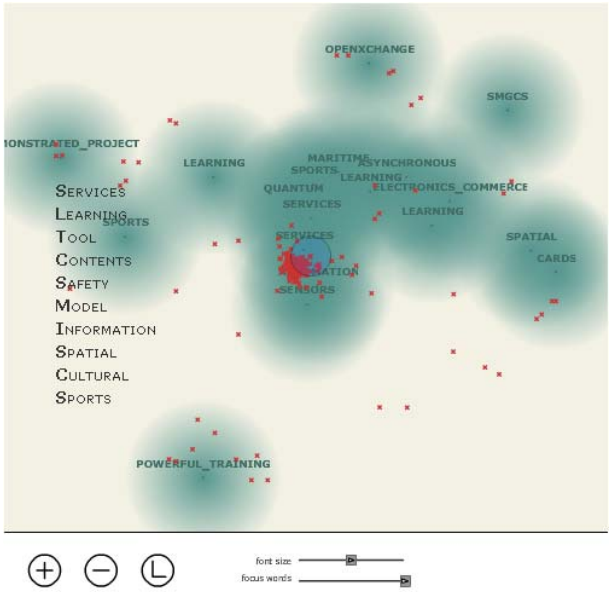
Collaborative - Product Development Services

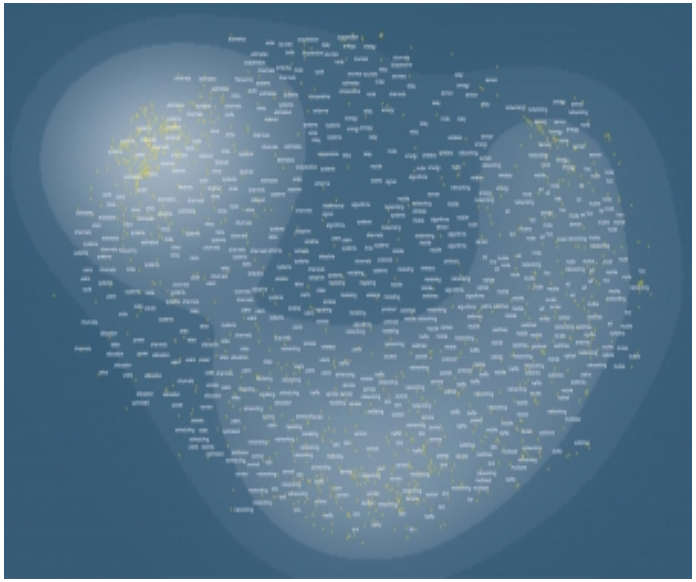
- Advanced Visualization web services

Objectives:

– Supporting **semantic c-PD web services**, presenting the results of semantic searches in a richer way, integrating **more information in one graph**.

– **Visualization** of the automatic classification of **end user requirements**, to better analyse and summarize social trends





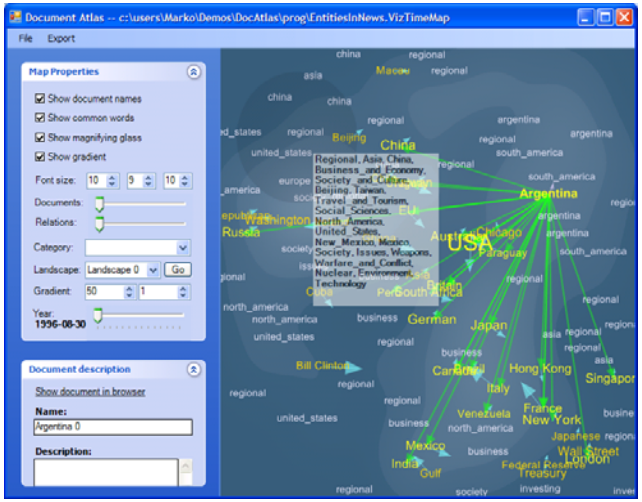
Collaborative - Product Development Services

- Semantic Document Management web services

Objectives:

– **Semantic search for documents** in the cluster, that enables the efficient reuse of information for product development processes

– **Integration** of data with the **deployed ontology** of the cluster, relationing documents with products, companies and services existing in the cluster



- **Automatic classification** of documents, based on advanced data mining techniques

- Compatibilization with the **3D collaborative designer** and **visualization services**, for an integrated document management service

Collaborative - Product Development Services

- Semantic Document Management web services

Example: Automatic classification of documents, based on advanced data mining techniques http://alchemist.ijs.si:22222/Classify

Results of Classification

Keywords:

- ☐ Science (0.048)
- ☐ Regional (0.043)
- ☐ Europe (0.040)
- ☐ Telecommunications (0.040)
- ☐ Business (0.040)
- ☐ Computers (0.037)
- ☐ France (0.037)
- ☐ Business_and_Economy (0.028)
- ☐ Technology (0.027)

Living Labs "ICT Usage Lab"

The ICT Usage Lab was launched in 2002 by four academic partners and six industrial partners developing a concrete approach based on enterprise needs, employees or organisations, and defining co-conception methodologies for new ICT services.

Partners represent an interdisciplinary research team who investigate technical challenges and legal, social, societal and economical issues related to new ICT usages.

Description of Concept

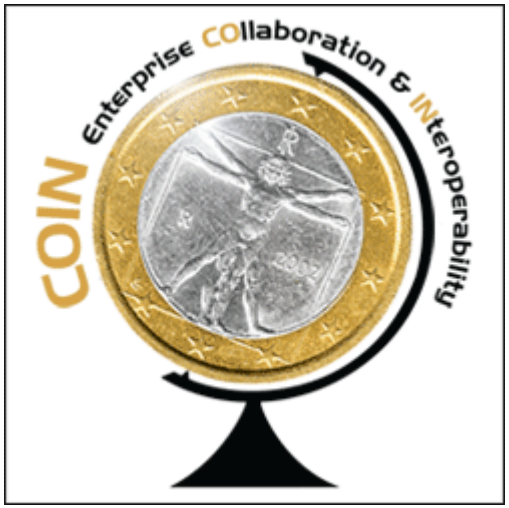
The ICT Usage Lab is a Scientific Interest Group created by the French National Research Center, INRIA, the University of Nice Sophia-Antipolis and the Group of Telecommunications Schools in July 2002 to foster knowledge about diffusion and appropriation of ICT-based products and services across society. Since its creation, six industrial R&D units have joined the Scientific Interest Group as associate members: Alcatel Space, Amadeus, Bouygues Telecom, the SFR Cegetel Business Foundation, France Telecom R&D and SAP Labs.

The ICT Usage Lab both involves research teams dedicated to the use of ICT, such as the GET group and a network structure. It coordinates today about forty researchers - knowledge engineers, economists,computer scientists, psychologists, and sociologists, aiming to develop into a large scale "Colaboratory".

Categories:

1	☐	0.135	Top/Regional/Europe/France/Travel_and_Tourism	FRANCE (85.69%)
2	☐	0.133	Top/Regional/Europe/France/Business_and_Economy	FRANCE (44.37%)
3	☐	0.125	Top/Business/Telecommunications/Consulting	TELECOMMUNICATIONS (23.18%)
4	☐	0.122	Top/Science	RESEARCH (15.99%)
5	☐	0.120	Top/Science/Technology	RESEARCH (12.19%)

Enterprise COllaboration & INteroperability



Thanks for your attention

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