

KnowledgeWeb

Industry Area



NoE KnowledgeWeb Industry Applications and Promotion
4th Workshop (Uni Trento 9-10 Sept 2004)

Plenary report

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Trento meeting Plan

- Progress review to date
 - Main Issues on focus
 - Industry WS: Business use cases
 - Ad hoc working groups
 - Conclusions and next Plan
- Thursday 9 September
- Friday 10 September

Trento O2I Agenda Structure

Thursday 9 September, 9:30 – 19:00

Industry Board invited representatives during all meeting



Welcome

KW-O2I-Plenary

Progress
Main Issues

(9:30 – 10:00)

Managers

KW-O2I-Plenary

WP1/2/3/4/5/6

Work to date

Progress, Problems, Deliverables

(10:15 – 18:30) 1 hour per WP

WP Leaders

Friday 10 September, 9:30 – 16:00

Selected topics

For deeper analysis

Focus Group (9:15 - 15:30)

- . Scenarios
- . Best Practices
- . Benchmarking

**Clean Slide set
For KW executive report
2nd WS**

KW O2I (15:30 – 16:00)

Reports and Decisions

AL and WP leaders

Closing



O2I Tasks dependencies



Task 1

Industry
Board

Application Needs

- Prototypical Use Cases
- Knowledge processes
- Knowledge components
- Business Cases

Task 2

Evaluation of Technology

- Utility of Ontology tools
- Interoperability of tools
- Ontology content

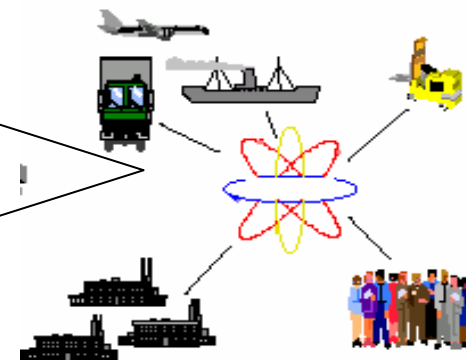
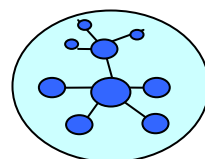
Task 3

Recommendations to deploy

- Best Practices
- Ontology repository
- OntoMetadata standards
- Onto outreach authority



The Automated reasoning Web



Task 4

Promotion – Technology RoadMaps, Success stories, Technology show cases

Task 5

Cross-Network cooperation – partners, joint education, program activities

Task 6

Portal - Ontologies, first prototype, maintenance KW and SWSA

WP1.1 Industrial application needs
(Started, FT)

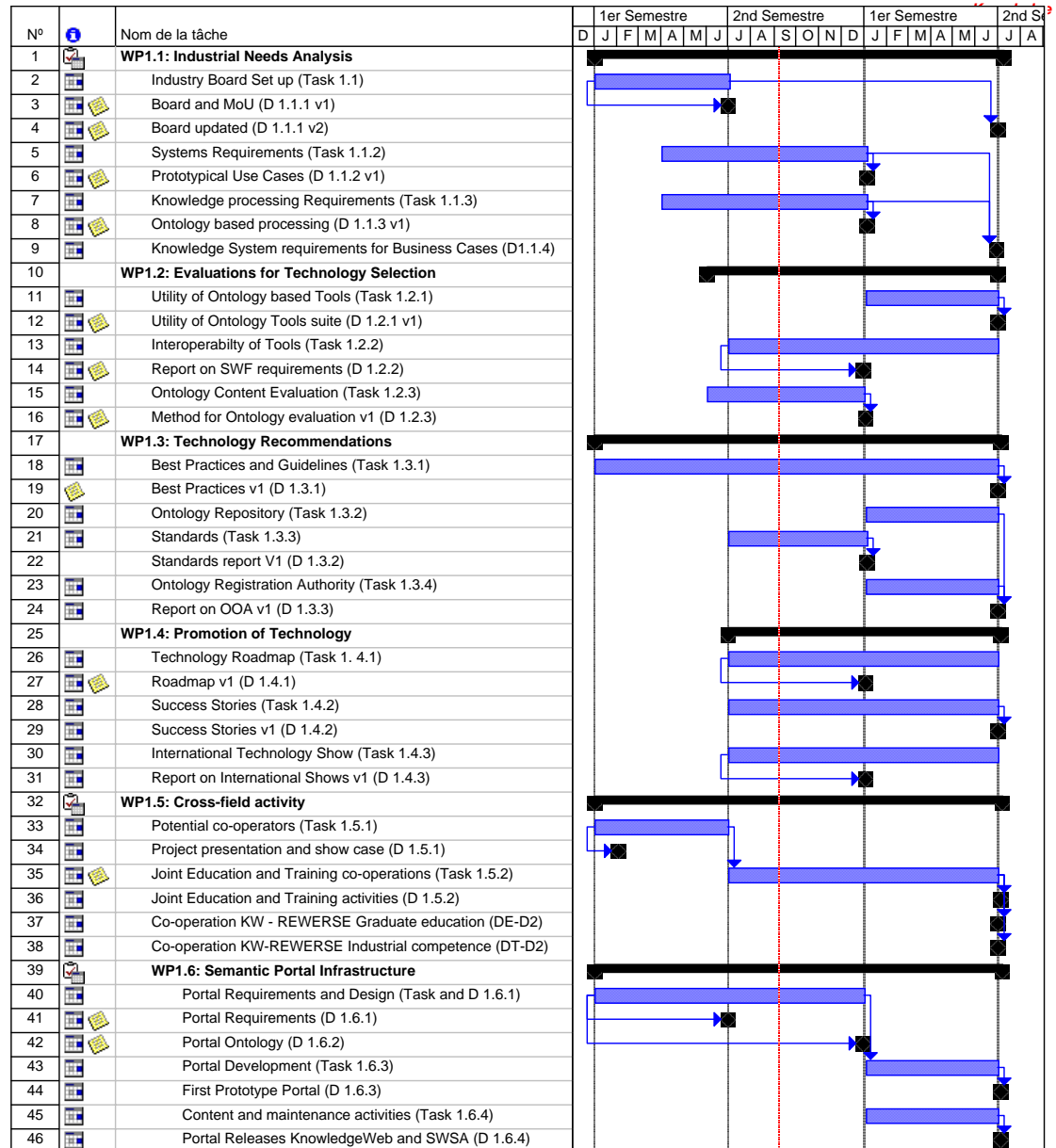
WP1.2 Evaluation for technology selection
(Start in 6, VUB)

WP1.3 Technology recommendations
(Started, VUB)

WP1.4 Promotion of ontology technologies
(Start in 6, UIBk)

WP1.5 Cross-network cooperation
(Started, UIBK)

WP1.6 Semantic portal infrastructure
(Started, UPM)





O2I

Progress towards the objectives Trento meeting Main Issues

KnowledgeWeb O2I Plenary Report

Trento, 10 September 2004

Executive Summary (1) Trento

➤ Board of industrial partners (WP 1.1)

- 4 Industry Board partners presented their Use Cases **Progressing well**
- Business sectorial domains (Automotive, bank, telecom, ...) **DONE**
- Pull-Push Technology balance (Pull search first) V1 **DONE** but must continue to improve
- Invitation to Join on the **KW-O2i** site
- Starting and Sharing the F2F meetings with Industry (to collect business scenarios) **September 2004**
- All O2I partners are strongly invited to contact potential Industry partners
- Industry mailing list **Done** (Kweb-o2i@listserv.vub.ac.be)



➤ Industrial Board MoU “Early Access Policy” (WP 1.1)

- Final version edited by FT and circulated for comments by EPMB **Done** 5 July 2004
- Early Access Policy should be finally **Agreed** by EPMB 17 September 2004
- Signing up by each Industry member **September 2004**

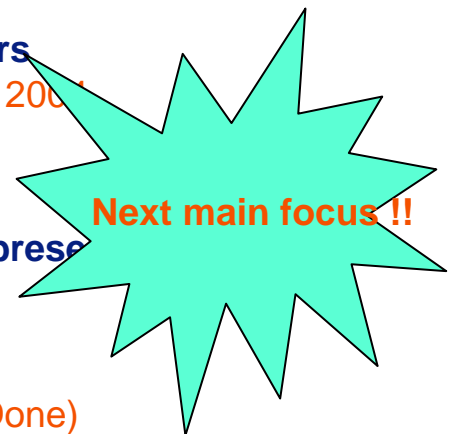


➤ Systems Requirements Scenarios (D 1.1.2)

- Needs to organize selected ad-hoc F2F meetings with industry partners
- Intermediate version of Use Cases should be delivered to KW **DONE** July 2004

➤ Knowledge Processing needs (D 1.1.3)

- Knowledge processing needs and basic components on 6 scenarios presented
- D 1.1.3 initialized **(August 2004)**



➤ Benchmarking (WP 1.2)

- Integrating all benchmarking KW activities (Research and Industry) **(Done)**
- For O2I should be in relation to industry Business Case needs **(discussed and agreed)**
- Report on methods for content evaluation **(October 2004)**

- **Ontology Outreach Authority (WP 1.3) (M18)**
 - Set up the requirements for the OOA for the first KW phase (under development)
 - First draft of the OOA requirements will send to Industry board for feedback in January.
- **Standards and ontology metadata (WP 1.3) (M18)**
 - Leverage the effort with identifying Standardization bodies.
 - MetaData for Ontology repositories (OntoRoadMap UPM) Leveraging with W3C
 - The final set of metadata elements will be proposed for standardization
- **Best Practices : cooperation with W3C (WP 1.3) (M18)**
 - VUA, INRIA, UPM, FT are active members of WG Best Practices for Deployment
 - Questionnaire and F2F meeting with industry board (underway)
 - A questionnaire for collecting b.practices from the users and developers of SW (underway)
- **Promotion (WP 1.4)**
 - 1st Technology show detailed report D 1.4.3 (M6) DONE
 - Applications (not tools!) and success stories repository D 1.4.2, on going effort
 - Technology roadmap D 1.1.1 v1 (M12) underway
- **Industrial Workshops / Conferences (WP 1.4)**
 - Knowledgeweb O2I meeting with Industry board (specific needs or PMB)
 - Best promotional vectors (Advices expected from Industrial Board)
 - Technology show and industry tracks SIGIR'04, ISWC'04, ESWS'05 ...
- **Cooperation with other NoE (e.g.Rewerse) (WP1.5)**
 - Technology transfer Started 5 May DONE (minutes circulated)
 - Industry competence centers analysis underway
 - Industry co-organized events (scheduled in October 2005, Munich)
 - Industry adapted courses (to be coordinated with Education area)
 - Industry and Education areas joint coordination but Research not in (?)
- **Portal O2I Web site (WP 1.6)**
 - Portal in operation and maintained by UPM <http://kw.dia.fi.upm.es/O2I/>
 - “Business oriented” access to O2I related contents to be open soon





O2I

Business Use Cases Industry Board

KnowledgeWeb O2I Plenary Report

Trento, 10 September 2004



helping newly-
appointed judges



helping IT consultants

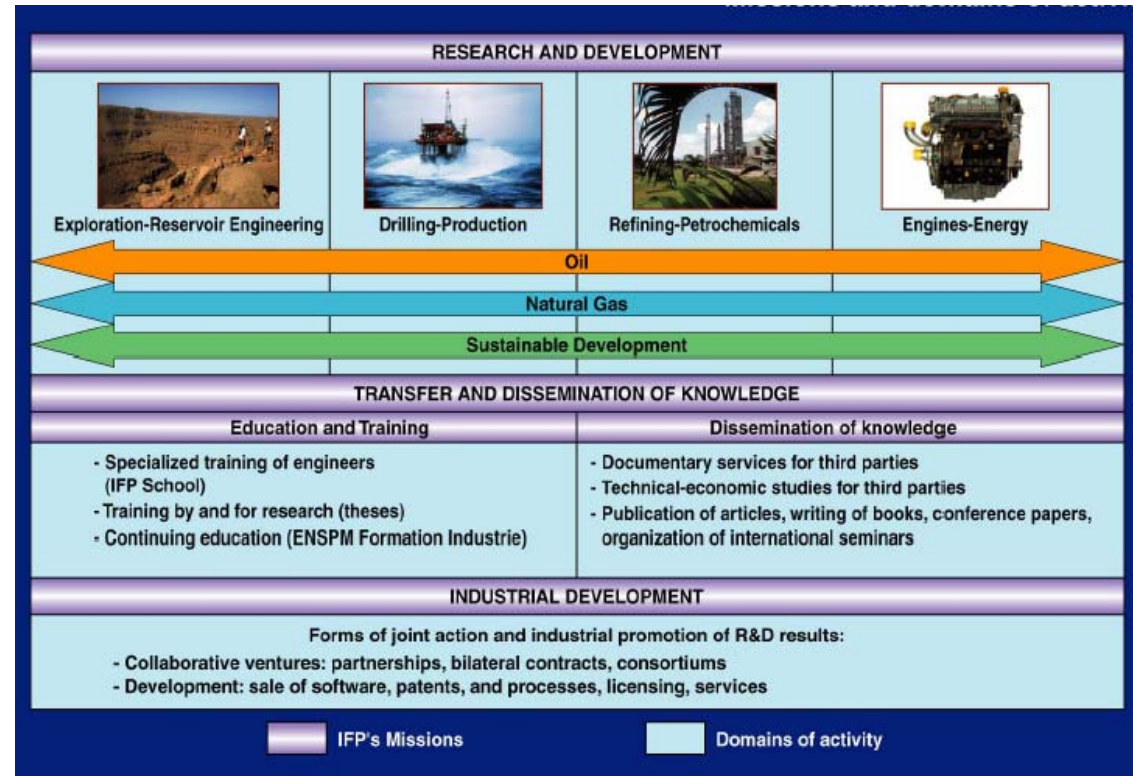


a corporate digital library



➤ Use Cases

- **Helping newly appointed judges** : content intermediation (ISOCO)
- **Helping IT consultants** : processes and lifecycle (**Siemens**)
- **A corporate digital library** : enhanced search (**BT**)

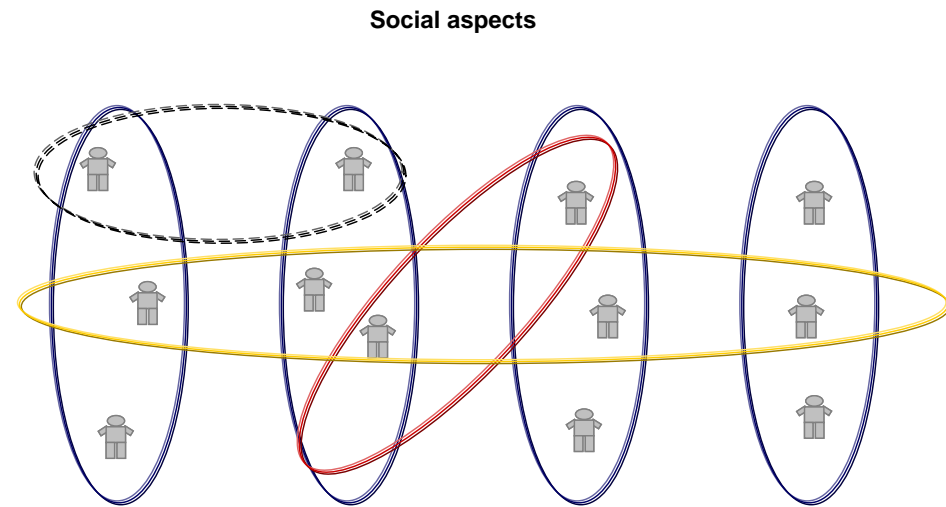
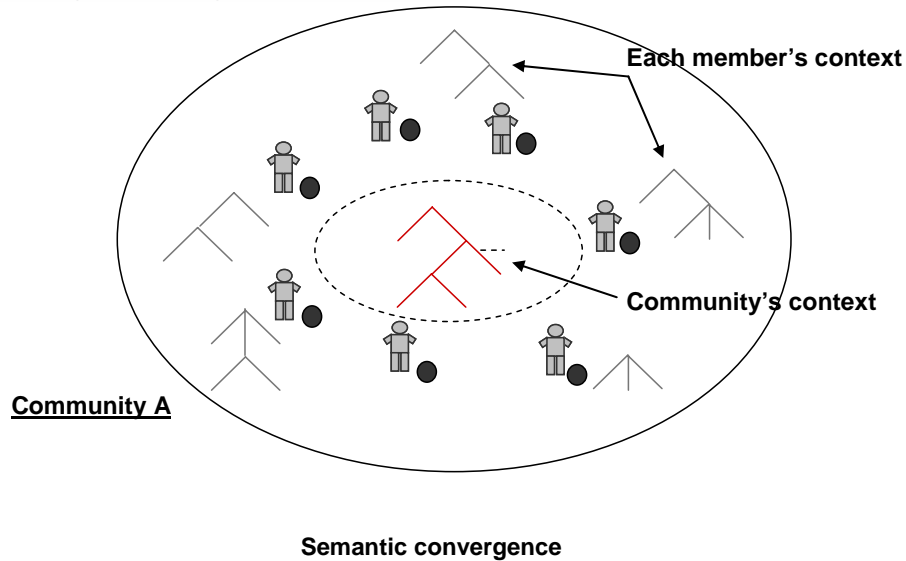


➤ IFP needs

- Support software interoperability by semantic annotations
- support intelligent workflow management
- Corporate knowledge memory

➤ Conclusions

- IFP application domain is a potentially rich domain for semantic web technology
- IFP wants to be involved in the ontology development (they are key to IFP activities!)
- IFP is strongly interested to work closely with KnowledgeWeb
- IFP will be proactive on this subject in the near future



➤ Distributed Knowledge Management and Community of practices

- to investigate (and eventually propose how to improve) the knowledge management situation within the organization.
- Future semantic web development
 - Proactive P2P recommender
 - Semantic convergence of local contexts
 - Social aspects: Social dynamics



➤ Mobile E.Photo and personalized travel package

– Challenges

- An efficient user-friendly interface and means of accessing personal information
- Information merge from different feeds
- Automatic meta-data insertion
- Easily integration and cooperation of multiple heterogeneous sources





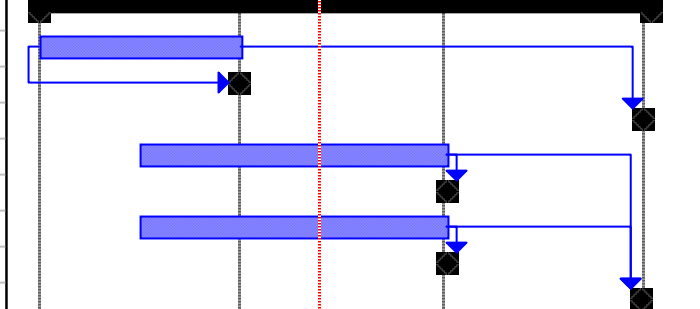












WP 1.1 Applications needs

FT

Led by FT

- **Task 1: Establishment of an industrial Board (FT)**
 - Board v1 and Policy D1.1.1 (DONE)
 - Industry board expansion underway
 - Industry organization in economical sectors and start populating (DONE)
 - Policy for final approval by EPMB 17.09.2004 and signature started
- **Task 2: System Requirements Analysis (FUB)**
 - Intermediate internal draft of Use Cases D 1.1.2 sent KW end of July
 - Start populating each economical sector with Business Cases
 - Revised presentation of the business cases
 - F2F industry board meetings started
- **Task 3: Knowledge processing requirements analysis (UniTrento)**
 - Knowledge processing needs and basic components on 6 scenarios presented
 - Needs “walk-through” illustrative examples for presentation and test
 - D 1.1.3 initialized

**F2F meetings
With Industry board
To speed up**











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1		WP1.1: Industrial Needs Analysis																								
2		Industry Board Set up (Task 1.1)																								
3	 	Board and MoU (D 1.1.1 v1)																								
4	 	Board updated (D 1.1.1 v2)																								
5		Systems Requirements (Task 1.1.2)																								
6	 	Prototypical Use Cases (D 1.1.2 v1)																								
7		Knowledge processing Requirements (Task 1.1.3)																								
8	 	Ontology based processing (D 1.1.3 v1)																								
9		Knowledge System requirements for Business Cases (D1.1.4)																								

WP 1.2 Technology Evaluation

VUB

Led by VUB

- **Task 1: Utility of ontology-based tools (Uni Trento)**
 - A benchmarking criteria is under development.
 - An ad hoc meeting to integrate all benchmarking activities in Kweb has been held in Trento (Sep. 9).
 - D1.2.1 (M18) On schedule.
- **Task 2: Interoperability of tools (L3S)**
 - A report identifying tool components and requirements for interoperability is expected in next meeting.
- **Task 3: Ontology content evaluation (UKARL)**
 - A classification of the existing methods for og'y content evaluation (done)
 - A report on methods for ontology content evaluation. D1.2.3 (M12) On schedule.
 - A preliminary structure of D1.2.3 (agreed, first draft 18/11/2004)

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10		WP1.2: Evaluations for Technology Selection																					
11		Utility of Ontology based Tools (Task 1.2.1)																					
12	 	Utility of Ontology Tools suite (D 1.2.1 v1)																					
13		Interoperabilty of Tools (Task 1.2.2)																					
14	 	Report on SWF requirements (D 1.2.2)																					
15		Ontology Content Evaluation (Task 1.2.3)																					
16	 	Method for Ontology evaluation v1 (D 1.2.3)																					

WP 1.3

Technology Recommendations

VUB

- **Task 1: Best Practices and Guidelines (FT)**
















- A questionnaire for collecting best practices from the users and developers of SW applications is being developed.
- The questionnaire will be developed and distributed in three iterations
- The first draft of the questionnaire will be ready by November 15 and it will be presented in the next O2I meeting.
- The set of questions (in the first iteration) will be collected and approved by (12 selected SW researchers and industry partners), and it will be tested by 5 users.

- **Task 2: Ontology Repository (UPM) & Task 3: Standards (UPM)**

- An extended version of the OntoRoadMap -ontology metadata (under way).
- New metadata elements were proposed and discussed.
- The final set of metadata elements will be proposed for standardization.
- The structure of D1.3.2 will be prepared and circulated to the WP members before 19/9/2004.
- The first draft of D1.3.2 will be ready before 10/11/2004 (before the next meeting).

- **Task 4: Ontology Outreach Authority (VUB)**









- The general goals of OOA have been discussed and agreed.
- The requirements for setting up OOA (D1.3.4, M18) are under development. On schedule
- The first draft of D1.3.4 will be ready will send to Industry board for feedback in January.

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17		WP1.3: Technology Recommendations																								
18		Best Practices and Guidelines (Task 1.3.1)																								
19		Best Practices v1 (D 1.3.1)																								
20		Ontology Repository (Task 1.3.2)																								
21		Standards (Task 1.3.3)																								
22		Standards report V1 (D 1.3.2)																								
23		Ontology Registration Authority (Task 1.3.4)																								
24		Report on OOA v1 (D 1.3.3)																								

WP 1.4 Technology Promotion

FUB

- **Deliverable 1: Technology RoadMap (UIBK) D1.4.1 v1 (M12)**
 - Technology Roadmap v1 underway
 - International Semantic Technology Roadshow to be used as concrete milestones
- **Deliverable 2: Business Cases and Success Stories (UIBK)**
 - Applications (not tools) will be accessible on the KW site
 - Success stories will be highlighted on the KW site
- **Deliverable 3: International Technology Show (UIKB)**
 - Report on first International Semantic Technology Road show D 1.4.3 DONE
- **Awareness events**
 - KW O2I meeting with Industry Board
 - Best targets to be discussed with Industry Board
 - Technology show and Industry tracks: e.g. SIGIR'04, ISWC'04, ESWS'05, SEMW'04 ...
















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25		WP1.4: Promotion of Technology																												
26		Technology Roadmap (Task 1. 4.1)																												
27	 	Roadmap v1 (D 1.4.1)																												
28		Success Stories (Task 1.4.2)																												
29		Success Stories v1 (D 1.4.2)																												
30		International Technology Show (Task 1.4.3)																												
31		Report on International Shows v1 (D 1.4.3)																												

WP 1.5

Cross-Network cooperation

UIBK




















- **Task 1: Potential cooperators (UIBK)**
 - Rewerse (the closer NoE) and other NoEs, such as: MUSCLE, Aim@Shape, KB2.0 and Agentlink III
- **Task 2: Joint Education and Training cooperations (UIBK)**
 - **Deliverable DE-D2 (M18):**
 - Joint learning system infrastructure to be set up soon by Univ of Hanover
 - Four scenarios for specifying requirements for VISWE has been defined
 - The portal of teaching courses in the domain of Semantic Web has been installed already
 - In July 2004, there is the on-site visit between RW and KW educational cluster
 - **Deliverable DT-D2 (M18):**
 - Joint cooperation goal of KW and RW on Technology transfer task (telecon each month planned)
 - Business scenarios exchange
 - Joint Competence centers to be proposed
 - Joint promotion channel (e.g. joint Industry event next year Munich 2005)
- **Task 3: Programme of activities with each network (UIBK)**
 - Joint Workshop organized by AceMedia (London, 25-26 Nov 2004)
 - Progress on Research cluster: link with an Australian network
 - Joint Industry day with AgentLink (Zurich Oct 2004)
 - AgentLink will use KW portal technology to power their semantic portal
 - Joint summer school with AgentLink (Liverpool, 5-9 July)
 - Flyers of future events of next year in KW, or KW with other NoEs will be disseminated
- **Issues**
 - Cross-network activities in research cluster, especially with RW **has NOT been established**

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32		WP1.5: Cross-field activity																								
33		Potential co-operators (Task 1.5.1)																								
34		Project presentation and show case (D 1.5.1)																								
35		Joint Education and Training co-operations (Task 1.5.2)																								
36		Joint Education and Training activities (D 1.5.2)																								
37		Co-operation KW - REVERSE Graduate education (DE-D2)																								
38		Co-operation KW-REVERSE Industrial competence (DT-D2)																								

WP 1.6 KW Portal

UPM

- **Task 1: Portal Requirements and Design (UPM)**
 - **Delivered D1.6.2: Portal Ontology (Month 6):**
 - Includes the 5 portal ontologies (Documentation, Event, Organization, Person, and Project)
 - Includes the study of the **reuse of the OntoWeb and Esperonto ontologies**
 - **Working on D1.6.1: Portal Requirements and System Desing (Month 12):**
 - Includes the **business use cases**
- **Task 2: Portal Development (UPM)**
 - Technology used for : **ODESeW**
 - 5 ontologies for the time being (Time ontology will be added)
 - **FOAF Information:**
 - Mappings between FOAF and KW Person Ontology
 - Galway and UPM are working to include this information in the portal
 - List of **deliverables ordered by delivered and not delivered** in each workpackage
 - **Outreach to Industry Portal** (<http://kw.dia.fi.upm.es/O2I/>)
 - **AgentLink III** is evaluating the KW Portal Technology (ODESeW)
 - **Integration of Magpie and KW Portal**
 - UPM is working in an **architecture to integrate semantic information:** OntoWeb and KW integration
- **Task 3: Content and maintenance activities (UPM)**

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39		WP1.6: Semantic Portal Infrastructure																							
40		Portal Requirements and Design (Task and D 1.6.1)																							
41	 	Portal Requirements (D 1.6.1)																							
42	 	Portal Ontology (D 1.6.2)																							
43		Portal Development (Task 1.6.3)																							
44		First Prototype Portal (D 1.6.3)																							
45		Content and maintenance activities (Task 1.6.4)																							
46		Portal Releases KnowledgeWeb and SWSA (D 1.6.4)																							

Next O2I Meeting

Objectives: Deliverables Technical Discussion and Editing groups meeting.

Location: FU Berlin.

Local organizer: FU Berlin

Date: 18-19 November 2004

