

NoE KnowledgeWeb Industry Applications and Promotion 6th Workshop Hanover 24-25 Jan 2005

Knowledge Web

KnowledgeWeb Outreach to Industry



KnowledgeWeb O2I Hanover Plenary report

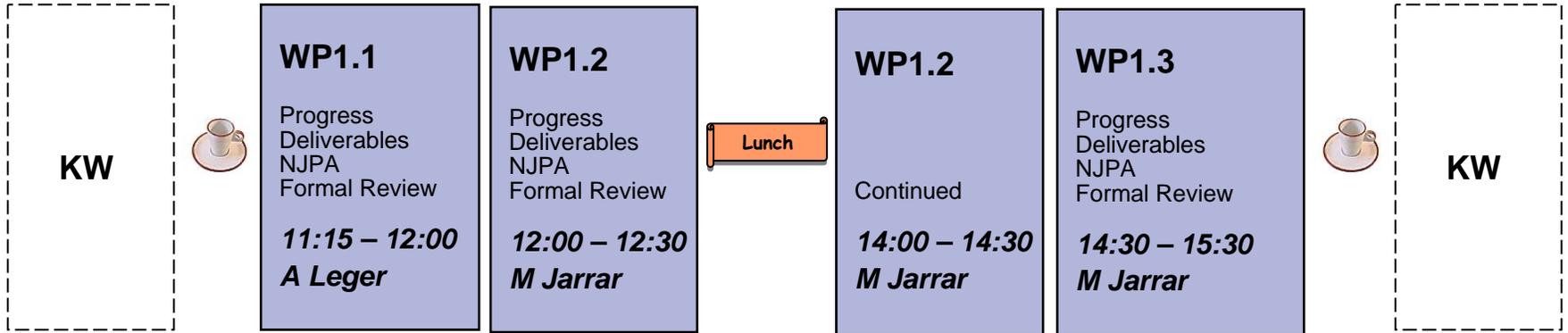
Hanover, 24-25 January 2005



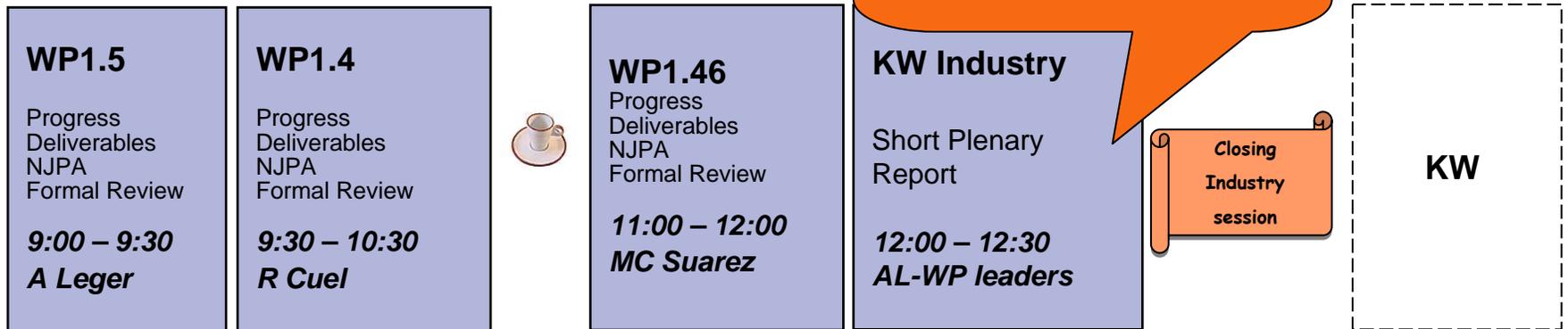
Hannover Industry Agenda Structure



Monday 24 January, 11:15 - 15:30

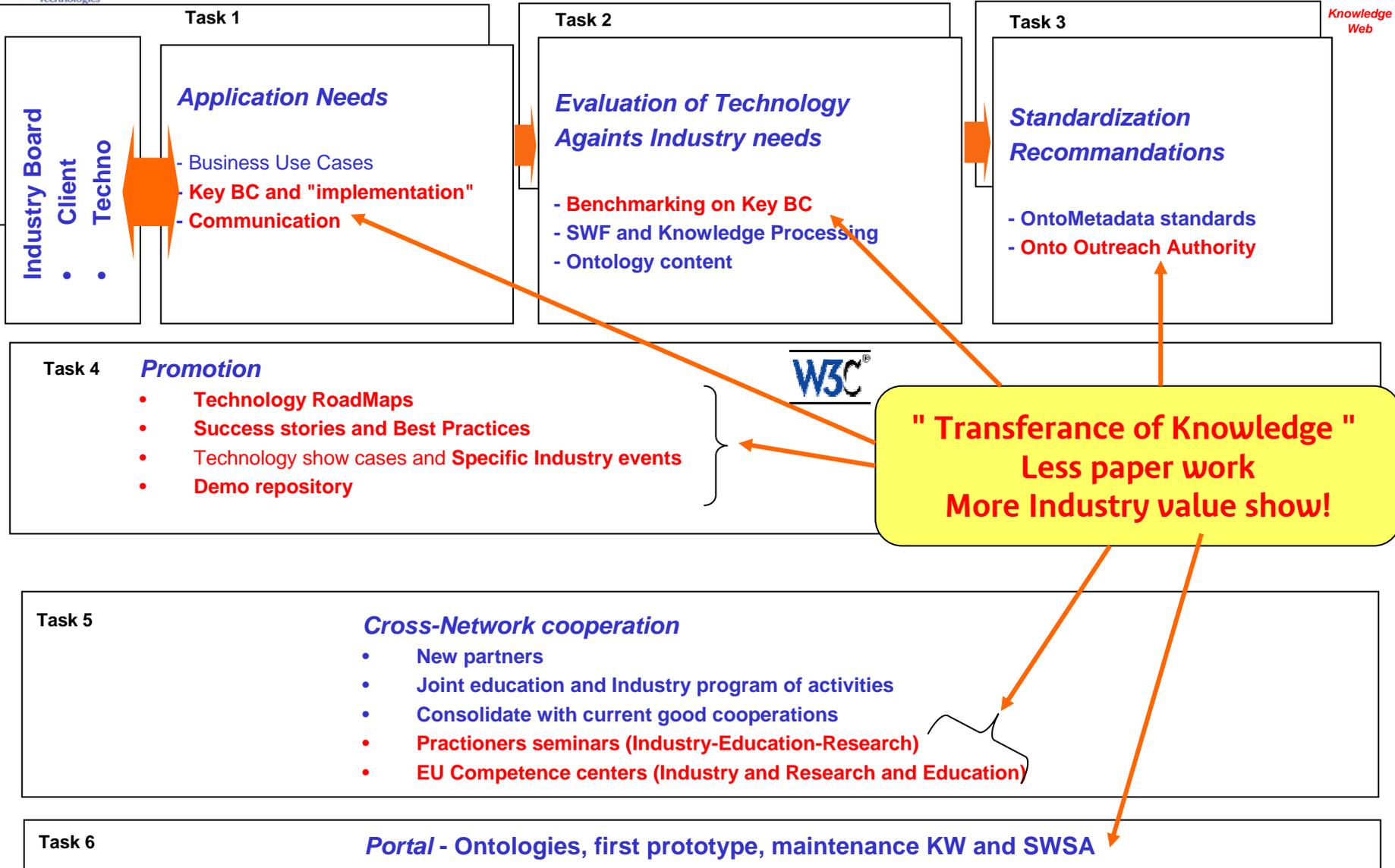


Tuesday 25 January, 9:00 - 12:30





Industry New JPA M13-M30





Industry New JPA M13-M30

drafted Manpower



	FT	VUB	UtiTh	FUB	CERIH	Inria	L3S	UKar1	VUM	UPM	USFD	VU	UBK	NUIG	OU	LivUh	Total
WP1.1																	
<i>MI-18</i>	3	4	2	2													11
<i>MI3-30</i>	3	3	2	4	3												15
WP1.2																	
<i>MI-18</i>	2	3	2			1	4	2	2								16
<i>MI3-30</i>	4		3			2	2		2		2						15
WP1.3																	
<i>MI-18</i>	2	3		1				1		2	2	2					13
<i>MI3-30</i>		6		4				4		3	2	2					21
WP1.4																	
<i>MI-18</i>	2	2							1				4	2			11
<i>MI3-30</i>	1.5		4								2		3	2			12.5
WP1.5																	
<i>MI-18</i>	1			2	1		1	3	1		4		6	3	1	3	26
<i>MI3-30</i>	1				1		2				1		4				9
WP1.6																	
<i>MI-18</i>										7				4	1		12
<i>MI3-30</i>										7				4	1		12
Total																	
<i>MI-18</i>	10	12	4	5	1	1	5	6	4	9	6	2	10	9	2	3	89
<i>MI3-30</i>	9.5	9	9	8	4	2	4	4	2	10	7	2	7	6	1		84.5

WP1.4
More partners
Are requested !

WP1.5
Too much manpower
in previous JPA

Needs consolidations of the declared P.M



O2I

Progress towards the objectives Hannover meeting Main Issues

KnowledgeWeb O2I Plenary Report

Hannover, 25 January 2005

I n d u s t r i a l B o a r d

Client Industry

Techno-push Industry



To understand needs
34 Industry partners on Board
63 contacted
9 nationalities
Health, Telecom, Automotive, Energy,
Food, Media, Transport, Space

**Annex 2
Application Form**

**for accession to the
Knowledge Web Early Access Policy**

[full name and legal form of the Panellist], represented for the purposes hereof by [name of authorised representative],

hereby applies for becoming a Panellist within the Panel of industrial corporations set up by the Contractors to the Project entitled **Knowledge Web**, for which Project the Contract n° 507482 has been concluded between the Commission of the European Community and Universitat Innsbruck (UIBK), the latter acting for the purposes of the Contract on its behalf and for its account but also on behalf and for the account of the Contractors, a list of which is given in the **Knowledge Web Early Access Policy**, and, in the event that this application is accepted, accepts in accordance with the provisions of the **Knowledge Web Early Access Policy** all the rights and obligations of a Panellist as defined in that **Knowledge Web Early Access Policy**, which, from the date of acceptance by the **Knowledge Web** Contractors, will become legally binding.

AS WITNESS thereof, this *Application Form* has been signed in counterparts by the undersigned authorised representatives the day and year first above written.

Authorised to sign on behalf of

Vrije Universiteit Amsterdam (VUA), The Netherlands, acting for the purposes hereof on its behalf and for its account, but also on behalf and for the account of the **Knowledge Web** Contractors.

Signature: _____

Name: Gaus Schreiber

Title : Prof. Dr.

Name of Legal Entity: [full name of the Panellist]

Name of legally authorised representative: (written out in full)

**To benefit
Early Access Policy**

**To share with Industry
Industry portal
Privileged access to IB**



- 16 Use Cases on the paper deliverable D 1.1.2
- **About 3 Use Cases « with low hanging fruits » must be selected**

2 Proposals

Health sector: SW for life sciences, PrismForum, PharmaGrid, InfotechPharma

Institutional: National museums, Digital Libraries,

- **Knowledge processing components**
 - 4 full analysis reported in Del D 1.1.3
 - (M24) D1.1.3 v2 All the Business Cases are analysed and guidelines are returned to IB

Objective is to get saturation on the generic key components

Simplified UML methodology used

Key KP components identified : semantic matchers, automatic annotators, ...

Needs to relate to specific KW research topics for Industry-Research cooperation

Detailed specifications of the technology locks

Activity number	1.1	Start date or starting event:					Month 13
		Update for Month 13 – Month 30					
Participant id	FT	FU Berlin	UniTn	CERTH	VUB		Total
Person-months per participant:	3	4	2	3	3		15

Executive summary (3-4 pages) of KW conclusions about realizing each concrete Business Case needs. Communication to IB partner

N°	Nom de la tâche	1er Semestre					2nd Semestre					1er Semestre					2nd Semestre					1er Semestre					2nd S					
		D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
1	WP1.1: Industrial Needs Analysis	[Gantt bar spanning from start to end]																														
2	Industry Board Set up (Task 1.1)	[Task bar]										[Task bar]										[Task bar]										
3	Board and MoU (D 1.1.1 v1)	[Task bar]										[Task bar]										[Task bar]										
4	Board updated (D 1.1.1 v2)	[Task bar]										[Task bar]										[Task bar]										
5	Systems Requirements (Task 1.1.2)	[Task bar]										[Task bar]										[Task bar]										
6	Prototypical Business Use Cases (D 1.1.2 v1)	[Task bar]										[Task bar]										[Task bar]										
7	Knowledge processing Requirements for Business Cases (Task 1.1.3)	[Task bar]										[Task bar]										[Task bar]										
8	Knowledge processing components (D 1.1.3 v1)	[Task bar]										[Task bar]										[Task bar]										
9	Knowledge System requirements for Business Cases (D1.1.4)	[Task bar]										[Task bar]										[Task bar]										
10	Efficiency in Communication with Industry Board	[Task bar]										[Task bar]										[Task bar]										
11	Instruments for IB communications	[Task bar]										[Task bar]										[Task bar]										

Industry Network IB
V2
Growth quality and needs!

Instruments for efficient
IB communication



WP 1.2 Technology Evaluation

VUB

Utility of ontology-based tools (Benchmarking) (Task 1.2.1 starts M12)

- A meeting on “Benchmarking” has been organized, in order to coordinate benchmarking activities developed across the KWeb project (WP1.2, WP2.1).
- Industrial application needs and a benchmarking methodology have been analyzed.
- Some Ontology editors are being tested...

Interoperability of tools and services (Task 1.2.2)

- The high-level components necessary for the Semantic Web Framework have been identified based on the available use cases (the work done in WP 1.1) and based on our experts in tool development within Kweb.
- General requirements analyzed and a requirements glossary produced.
- Requirements and available solutions for several components collected.
- D1.2.2 [M12] (Semantic Web Framework requirements analysis)
 - ➔ The 1st draft is finished before yesterday. (few weeks delay)

Ontology content evaluation and usability (Task 1.2.3)

- Existing methods for ontology content evaluation have been surveyed and analyzed, and synthesized towards industrial needs.
- Methods have been classified according to their conceptual, formal, pragmatic and usability characteristics with respect to quality evaluation.
- D1.2.3 [M12] (Methods for ontology evaluation)
→ (2 weeks delay)

Lack of experts to perform this task

New JPA

Description of work

T1.2.1 Utility of ontology-based tools. Focusing on the benchmarking of scalability and performance of ontology editors.

T1.2.2 Interoperability of tools and services, which includes interface definition of components needed to develop, maintain and deploy semantic web applications;

T1.2.3 Ontology content evaluation and usability, which includes the content evaluation of ontologies with the content needed in the industrial use cases.

Deliverables: (M13-M30)

- **D 1.2.1** [postponed: month 24] Evaluation of the utility of ontology development tools for different types of industrial application needs.
- **D 1.2.4** [planned: month 24] Architecture of the semantic web framework.

M13-30

FT	INRIA	L3S	VUM	UniTn	USFD	Total
4	2	2	2	3	2	15

WP 1.3 Technology Recommendations

VUB



Ontology repository and Standards Task 1.3.2 & 1.3.3

- A survey of metadata and Standards
- Definition of metadata for describing ontologies.
- Requirements analysis for implementing registries for publishing evaluated ontologies.
- Participating in the SDK – SCG.
- D1.3.2 [M12] (Identification standards on metadata for ontologies)
→ on schedule



Ontology Outreach Authority Task 1.3.4

- The general goals of OOA have been defined and discussed with selected industrial partners.
- *The OOA will be seen as the recommending body of ontologies. This shall be achieved by organizing industry into domains/sectors; set up a committee for each sector where each committee will consist of the most active (industrial + research) members in that sector. Each committee is expected to play a leading role in ontology validating and recommending related activities within its sector.*
- Communication channels with other related initiatives are established. E.g. with www.lisan.org.
- D1.3.4 [M 18] (requirements for setting up OOA)
→ on schedule



New JPA

Description of work

T1.3.1 Ontology repository: Registries where ontology developers will be able to publish the structured metadata of ontologies will be specified.

T1.3.1 Standards: Select and contact standardization bodies. Define and extend strategies for standardization/recommendation ontological content and ontology-based tools. Contribute to the drafting of standards on metadata for ontology and interoperability needs.

T1.3.1 Ontology Outreach Authority: setup and promote the OOA, with a special focus on the participation of the most active industrial partners (world wide).

Deliverables: (M13-M30)

- **D 1.3.3** [month 18] Report on requirements of OOA
- **D 1.3.4** [month 24] Ontology repository

M13-30

FU Berlin	UPM	UKARL	USFD	VU	VUB	Total
4	3	4	2	2	6	20



WP 1.4 Technology Promotion

FUB

Promotion of ontology technologies period (0 – 48) UniTrento proposal

➤ Task 1: Technology roadmap (Iterim, first version)

An overall account of semantic web tools and potential impacts in industry, business and society will be given

➤ Task 2: Success stories and Best Practices

Analysis of stories best practices should unveiled



➤ Task 3: International Technology show

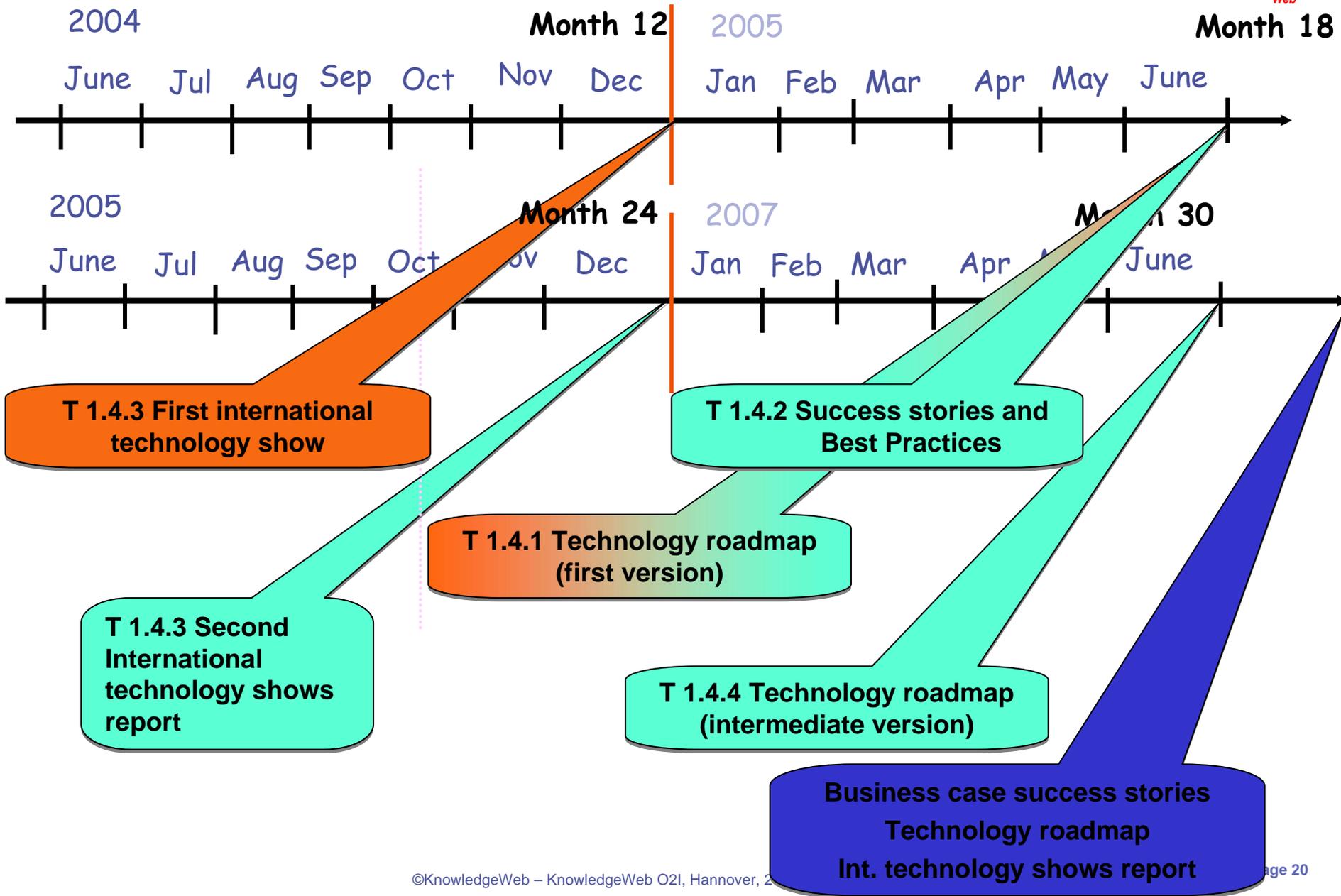
Promotional events that aim at promoting the issues addressed by Knowledge Web and its achievements to public and private institutions

UIBK	FT	NUIG	VUM	VUB	UniTn	UFSD	Total
3	1.5	2			4	2	12.5

**More manpower
Is requested !**



WP 1.1 Effectively Done



WP 1.5

Cross-Network cooperation

UIBK

Negotiation with identified potential cooperators Task 1.5.1

- Current status:
 - Collaboration request has been sent to Rewerse, AgentLinkIII, Muscle, Aim@Shape, KB2.0, SDK, SemanticGrid.org
 - Collaboration has been established with Rewerse, AgentLinkIII and SDK.
 - A positive feedback from SemanticGrid.org for setting up joint collaboration.
 - KB2.0, Aim@Shape and Muscle **did no reply to the invitation**
- Focus:
 - KW and RW: has established a very good collaboration and intensively involved together in many events organized and planned.
 - KW and AgentLinkIII: KW is contributing for the Newsletter of AgentLinkIII. We have regular event exchanges and cross link for each website.
- Plan:
 - Continuing with KW+RW, KW+AgentLinkIII
 - More efforts on KW+SemanticGrid.org
 - Try to get connect with KB2.0 (for dissemination purpose)
- Del1.5.1 has been delivered on time (M2)

Discussion about joint education and training activities Task 1.5.2

- Current status:
 - Concrete plan and discussion on joint education and training activities has been going on very well with NoE ReWerse
 - The first draft of joint deliverables DE-D2 (academic education) and DT-D2 (industrial training) are ready (due date in KW is M18)
- Focus:
 - KW+RW
 - KW+AgentLinkIII
 - KW+SemanticGrid.org
- Plan:
 - In the future, more efforts will be put on the joint education and training activities with AgentLinkIII and SemanticGrid.org
- Task 1.5.3 Define a program of joint activities with each network will be the main focus of the year 2005.



SemanticGrid



AGENTLINK.org



REWERSE[®]
reasoning on the web



N°	Nom de la tâche	1er Semestre					2nd Semestre					1er Semestre					2nd Semestre					1er Se									
		D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
34	WP1.5: Cross-field activity	[Gantt chart showing a thick black bar from start to end]																													
35	Potential co-operators (Task 1.5.1)	[Blue bar from start to end]																													
36	Project presentation and show case (D 1.5.1)	[Black square at start]																													
37	Joint Education and Training co-operations (Task 1.5.2)	[Blue bar from start to end]																													
38	Joint Education and Training activities (D 1.5.2)	[Black squares at end]																													
39	Co-operation KW - REWERSE Graduate education (DE-D2)	[Black squares at end]																													
40	Co-operation KW-REWERSE Industrial competence (DT-D2)	[Black squares at end]																													
41	Education and training progress and agreements (Task 1.5.4)	[Blue bar from start to end]																													
42	Progress and Agreements (D 1.5.4)	[Black square at end]																													

Workpackage number	1.5			Start date or starting event:					Month 13				
Activity Type*	Other specific activities: Cross Network cooperations												
Participant id	UIBK	FT	FUB	CERTH	L3S	NUIG	OU	UKARL	LivUni	VUM	USF D	Total	
Person-months per participant:	4	1	Leave WP	1	2	0	0	Leave WP	0	0	1	9	

27 in previous

" Transference of Knowledge "!
Less paper work
More Industry value show

Task 5	<p>Cross-Network cooperation</p> <ul style="list-style-type: none"> • New partners • Joint education and Industry program of activities • Consolidate with current good cooperations • Practioners seminars (Industry-Education-Research) • EU Competence centers (Industry and Research and Education)
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WP 1.6 KW Portal

UPM

KW Portal WP 1.6

- **Task 1: Portal Requirements and Design (UPM)**
 - Delivered D1.6.2: Portal Ontology (Month 6)
 - Delivered D1.6.1: Portal Requirements and System Desing(*Month 12*)
- **Task 2: Portal Development (UPM)**
 - Reports generation functionalities: deliverable status, publication summary and gender report
 - Exchanges TRex
 - Hoppers@KWeb
 - Maintanance of the technology: ODESeW
 - Use ODESeW in AgentLink Portal
 - Importation of FOAF will be deployed during next weeks
- **Task 3: Content and maintenance activities (UPM)**

Next Industry Meeting

Objectives: Focused Technical work and Review finalization

Location: Rennes,

Local organizer: FT R&D Rennes

Date: 3-4 March 2005