EuroVO-AIDA WP8/JRA3

Assessment of emerging technologies



WP objectives

- Assess the potential usage of emerging technologies of interest to the VObs in technical areas where EuroVO-AIDA partners are interested
- Assess new technologies, test them with prototype deployments, and plan how to utilise them within Euro-VO.



Schedule and Milestones

- Two one-year cycles, beginning May 2008
- Milestones common to the three JRAs:
 - Euro-VO Technology Forums, gathering the three JRAs for work planning and technology exchange
 - IVOA Interoperability meetings
- EuroVO-AIDA milestone: WPMT meeting, ESAC, 20-21 November 2008



Deliverables

D8.1. April 2009

Intermediate report on Assessment of new technologies and associated prototypes

D8.2. April 2010

Final report on Assessment of new technologies and associated prototypes



Additional 'performance indicators'

- Detailed work programme for Cycle 1 & Cycle 2 (end of kick-off phase, end of Cycle 1) taking into account the final results of VO-TECH and the current status of IVOA standards
- Impact on IVOA standards (WP6 report)



Three activities

- Web 2.0 for data centres (CNRS)
- Semantics and ontologies (INAF & CNRS)
- Data Mining (UEDIN)



Activities: Web 2.0 (1)

New activity

Assessment of technology and of the human cost associated to quality management (moderation, user-account management, etc)

- Test of techniques (Ajax, Flex, RSS)
- Good discussion at the Cambridge
 Technology Forum lots of interest for the possibility to post annotations



Activities: Web 2.0

- Specification:
 - Two types of annotations
 - Comments
 - Requests for update of the databases
 - Attachment to a data (VizieR catalogue or object in a catalogue; object in SIMBAD)
 - Administration of the annotations
 - User acounts



Activities: Semantics/ontologies (1)

- Follow-up of VO-TECH
- Ontologies: Work on instances and linking the ontology with data sources:
 - Ontology structure altered to keep as much knowledge as possible within the ontology while matching best the data on objects present in databases or registries.
 - Development of an automated instance creator with consistency checking started
 - Ontology is OWL2 compliant



Activities: Semantics/ontologies (2)

• Semantics: Work on mapping of vocabularies

Alternative subject description from registries added to the ontology to enhance results when searching for resources in registries

Participation to IVOA WGs



Activities: Data Mining

- Follow-up of VO-TECH
- Continue assessment and implementation of existing packages (astronomy & general) in the VO context. Assess and prototype technical infrastructure needed for deployment (standards & protocols, grid infrastructure)
- Detailed programme after the final VO-TECH WP6 report

