OntoHub Perspectives

The Ontohub team

12.12.12





Time plan

10h	Intro / Motivation / Know-How
10.30h	Ontohub and its background (OntolOp ISO standard,
	OOR community, Hets community)
11h	Ontohub.org web portal demo
11.30h	Ontohub architecture and data model
13h	Lunch
14h	Aims
14.30h	Motivation / Know-How / Work areas
15h	Organisation (regular meetings, programming sessions,
	github, issue tracker)
15.30h	Setup of development environment
ca. 16h	End





Ontologies

- •
- •





Ontology Integration and Interoperability (OntolOp)

- ISO Standard 17347 (currently: working draft)
- Distributed Ontology Language (DOL)
 - OWL (Web Ontology Language)
 - RDF (Resource Description Framework)
 - EER (Enhanced Entity-Relationship Diagrams)
 - Common Logic
 - UML (Unified Modeling Language)
 - . . .
- Community of 10-15 experts
- bi-weekly Skype conferences





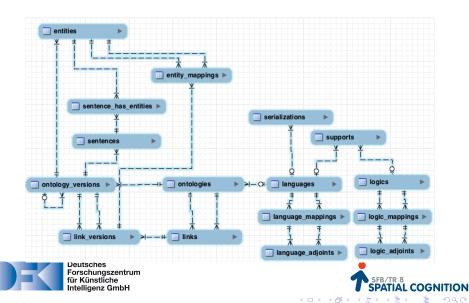
Heterogeneous Tool Set (Hets)

- Logic backend for OntoHub
- can parse an analyse all involved languages
- interface to about 15 proof tools
- http://www.dfki.de/cps/hets





Ontohub architecture and data model



OntoHub aims

- Keep functionality through tests
- CRUD functionality for logics, translations, ...
 - read in logic graph from RDF registry
- display graph of ontologies and links (and logic graph)
 - use graphviz / dot
- Reasoning
- Git backend (distributed development of ontologies)
- long-term goal: OOR architecture

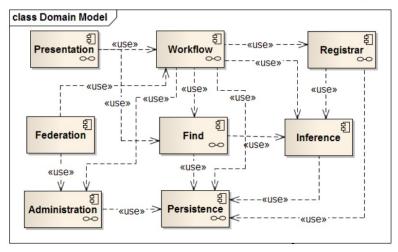




OOR architecture

Revised Architecture





Git backend

- New Rails model "repository", which simultaneously provides namespace for ontologies
- underlying git or svn repositories
- permissions per repository (not per ontology)
- only contents of master branch is displayed in Ontohub
- store who has pushed when what
- server side git hooks





Organisation

- •
- 0
- •



