

The EU Semantic Technologies ecosystem: funding and strategies

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Overview

- EU funds semantic technologies in its Framework Programme
- Understand what was already funded in FP6 and FP7
- Understand opportunities for FP7 work programme 2011-2012



FP SemTech funding at DG INFSO

- DG INFSO/E2 (Luxembourg)
 - Technologies for Information Management
- DG INFSO/D3 (Brussels)
 - Software & Service Architectures and Infrastructures
- DG INFSO/H1 (Brussels)
 - ICT for Health
 - <http://www.semantichealth.org/>



SemTech funding in FP6 2004-8

- Ontology development, management
- Inference, querying
- Information extraction
 - Text
 - Multimedia (including 3D)
- Semantic knowledge management
- Semantic Web Services



FP7 SemTech at DG INFSO/D3

- <http://www.shape-project.eu>
 - Sintef
 - StatoilHydro
 - Semantically enabled Service Architectures
- <http://www.most-project.eu>
 - Ontologies for Model Driven Architectures



FP7 SemTech at DG INFSO/E2

- Information extraction
 - Crowdsourcing (Casam, WeKnowIt, Insemtives)
- Inference
 - Very complex (Ontorule)
 - Very large (LarKC)
- Semantic software stack
 - (IKS, Plug-IT)



A success story

- GoodRelations ontology (SUPER)
- products and services ontology
- Fastest growing ontology on web (#2 at 650K docs, 5M+ resources)
- Used by BestBuy, indexed by Yahoo
- <http://www.heppnetz.de/projects/goodrelations/>



Examples to follow

- NeOn Ontology Editor
 - Reduce the cost of developing ontologies by enabling reuse
- <http://neon-toolkit.org>
- 30+ plugins
- 2000+ downloads



Examples to follow

- OKKAM Entity Server
 - Increase the value of knowledge representation by enabling ID reuse
- <http://www.okkam.org>
- 7M+ public IDs
- subsecond response time
- Built to IPv6 scale, link to physical world



Examples to follow

- LarKC inference engine platform
 - Opportunistic reasoning at web scale
- <http://www.larkc.eu>
- OWL Horst inference over 100B triples
- IR plugins
- Heuristics plugins
- Available on Amazon Web Services



Examples to follow

- Common features
- Plan and build for reuse, extension
- Address basic problems that repeat billions of times
- Robust plumbing
- Platform utilisation (test, test, test)



FP7 work programme 2011-12

- ****Not officially published yet****
- To be unveiled at ICT 2010:
- 27-29 September 2010
- Brussels
- http://ec.europa.eu/information_society/events/ict/2010/



FP7 work programme 2011-12

- A few educated guesses
- Data volumes keep growing
- Need for curation
 - Linking, quality checking
- Novel DB architectures (NoSQL)
- Sensors and data streams
- Geospatial and 3D
- Public Sector Information datasets



Conclusion

- We are always interested in your ideas: get in touch
- We talk to a lot of people: we can help you find partners
- Get involved in our operations: you may discover opportunities, people, ideas



Thank you

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