



Commercially Empowered Linked Open Data Ecosystems in Research

CODE's vision is to establish the foundation for a web-based, commercially oriented ecosystem for Linked Open Data.

Our use case focuses on research papers as a source for mining facts and their integration into LOD repositories and light-weight ontologies. Hence, we will leverage the wealth of knowledge contained in research publications on a semantic, machine-readable level by creating the Linked Science Data cloud.

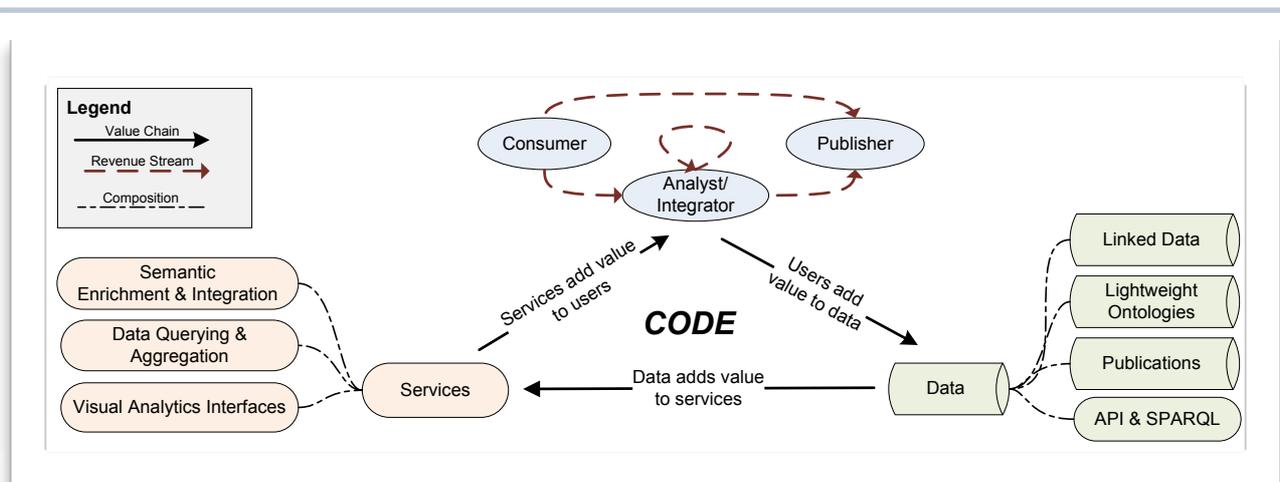
The project runs from 1 May 2012 – 30 April 2014.

We will research and develop:

- ★ Crowd-sourcing enabled semantic enrichment & integration techniques for integrating facts contained in unstructured information into the LOD cloud
- ★ Federated, provenance-enabled querying methods for fact discovery in LOD repositories
- ★ Web-based visual analysis interfaces to support human based analysis, integration and organisation of facts
- ★ Socio-economic factors – roles, revenue-models and value chains – realisable in the envisioned ecosystem

The consortium brings together high-potential partners, providing the resources for our vision:

- ★ Terabytes of research publications
- ★ Millions of light-weight ontologies
- ★ Steadily growing user community in the millions
- ★ Expertise in unstructured information analysis, distributed databases, semantic technologies, visual analytics and economic success factors in web businesses



CODE Project Partners

Know-Center (Graz, Austria; know-center.tugraz.at)

The Know-Center is Austria's research centre for knowledge management and knowledge technologies. Since its establishment in 2001 it has been an innovation point at the interface between science and industry, successfully conducting over 300 application-oriented research projects in cooperation with academic institutions and companies. Know-Center develops innovative knowledge services utilizing semantic technologies and standards. For example, its KnowMiner software framework offers a rich set of knowledge discovery and visual analytics technologies targeting the analysis of large, heterogeneous data repositories. The Know-Center is being funded by Austria's Competence Center Program COMET.



University of Passau (Germany; uni-passau.de)

Founded in 1978, the University of Passau combines a most up-to-date infrastructure with state-of-the-art technology, offering its over 10,000 students an ideal place to study. The two chairs involved in CODE, the chair of distributed information systems and the chair of media informatics, investigate distributed databases, multimedia system and automatic media analysis technologies to improve media access and management.



Mendeley (London, UK; mendeley.com)

Mendeley is one of the world's largest research collaboration platforms, used by over 1.6 million researchers worldwide. Mendeley provides real-time statistics, trends by research area, and recommendations for related research based on its crowd-sourced database of over 225 million research documents. Launched in January 2009, the company has offices in London and New York, and its investors include former founders and executives of Skype, Last.fm and Warner Music Group.



MeisterLabs (Munich, Germany; mindmeister.com)

MeisterLabs develops and provides web-based productivity tools focusing on simplicity, usability and easy collaboration. Its flagship product MindMeister is the market-leading web-based mind mapping and brainstorming solution. Over 300 million ideas have been generated by individuals and businesses using its unique, award-winning interface. As a cloud-based solution, MindMeister functions in any web browser and comes complete with native mobile applications for iPhone, iPad and Android.



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