Collaborative Project

LOD2 – Creating Knowledge out of Interlinked Data

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Project Fact Sheet Version 2

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Abstract:

This deliverable reports on the updated leaflet produced for the LOD2 project.

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History

Version	Date	Reason	Revised by
0.1	08/09/2011	First Draft	Nadine Jänicke
1.0	09/09/2011	Final revision	Sören Auer

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Executive Summary

In order to facilitate LOD2 project dissemination, we produced a project fact sheet in the form of a leaflet at the launch of the project. This leaflet has recently been updated with respect to the upcoming launch of the LOD2-Enlarged EU objective (288176).

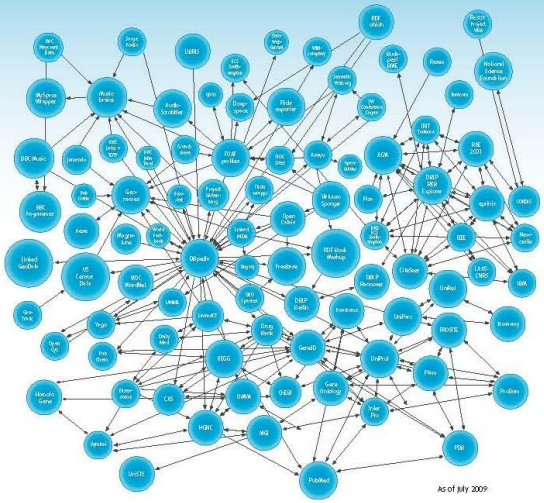
The LOD2 leaflet was originally designed and written by ULEI and edited by each partner. The updated version has again been produced by ULEI and extended by the names and logos of the new LOD2 partners. Another software logo was added, representing the semantic annotation toolkit *COAT* notably used by the new partner KAIST (Korea Advanced Institute of Science and Technology) within the project. The passage on use case III "Linked Governmental Data" has also been slightly revised and extended by ULEI and the new partner UEP (University of Economics, Prague) to represent the novel contribution made by WP9a in the area of Public Sector Contracts. No further revisions have been made otherwise.

The new leaflet will be printed with a run of 10.000 copies and be distributed at the upcoming LOD2 plenary meeting (19-20 September 2011) in Leuven, Belgium. Every partner will again be given a box of copies for distribution at LOD2-relevant events that they organize or participate in within the following months of the project. In this way, the leaflet serves distinctly the project's dissemination objectives.

The new leaflet version will also be available for download from the project management platform EMDESK as well as from the project's website. Here, a press corner has been created including various dissemination materials. In addition to the updated leaflet, the presently available general presentation and the website itself will equally be revised and adapted within a short time.

Further versions of all these materials, in particular of the leaflet, will be created as the project develops.

The Linked Open Data (LOD) Web



Depiction of selected datasets published as linked data and interlinked with at least one other dataset in the cloud.

What is Linked Data?
The term Linked Data refers to a set of best practices for publishing and connecting pieces of data, information and knowledge on the Web. Key technologies that Linked Data builds on are Universal Resource Identifiers (URIs) for identifying entities or concepts in the world, the generic graph-based RDF data model for structuring and linking descriptions of things in the world and the Hypertext Transfer Protocol (HTTP) for retrieving resources, or descriptions of resources.
Once traditional Web sites are enriched and complemented with Linked Data descriptions, search engines, mashups or personal agents can use and integrate information in previously unforeseen ways.

LOD2

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SEVENTH FRAMEWORK PROGRAMME

LOD2
Creating Knowledge out of Interlinked Data

Collaborative Project 2010 – 2014
in Information and Communication Technologies

Creating Knowledge out of Interlinked Data

Research and development of novel, innovative **Semantic Data Web** technologies

Expansion and integration of openly accessible and **interlinked data** on the web

Adoption and implementation of Linked Data for **media, enterprise and government**

http://lod2.eu

Project Summary

The semantic web activity has gained momentum with the widespread publishing of structured data as RDF. The Linked Data paradigm has, thus, evolved from a practical research idea into a very promising candidate for addressing one of the biggest challenges in the area of intelligent information management:
the exploitation of the Web as a platform for data and information integration in addition to document search.

To translate this initial success into a global reality, encompassing the Web 2.0 world and enterprise data alike, the following research challenges need to be addressed:

- improve coherence and quality of data published on the Web,
- close the performance gap between relational and RDF data management,
- establish trust on the Linked Data Web, and
- lower generally the entrance barrier for data publishers and users.

The LOD2 project is tackling these challenges by developing:

1. enterprise-ready tools and methodologies for exposing and managing very large amounts of structured information on the Data Web,
2. a testbed and bootstrap network of high-quality multi-domain, multi-lingual ontologies from sources such as Wikipedia and OpenStreetMap.
3. machine-learning algorithms for automatically enriching, repairing, interlinking and fusing data from the Web.
4. standards and methods for reliably tracking provenance, ensuring privacy and data security as well as for assessing the quality of information.
5. adaptive tools for searching, browsing, and authoring of Linked Data.

LOD2 will integrate and syndicate linked data with large-scale, existing applications and showcase the benefits in the three application scenarios. The resulting tools, methods and data sets have the potential to change the Web as we know it today.

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The LOD2 Consortium

- Universität Leipzig, Germany
- Centrum Wiskunde & Informatica, Netherlands
- National University of Ireland in Galway, Ireland
- Freie Universität Berlin, Germany
- OpenLink Software, United Kingdom
- Semantic Web Company, Austria
- TenForce, Belgium
- Exalead, France
- Wolters Kluwer Deutschland, Germany
- Vysoká Škola Ekonomická v Praze, Czech Republic
- Zemanta d.o.o., Slovenia
- Instytut Informatyki Gospodarczej, Poland
- Institut Mihajlo Pupin, Serbia
- Korea Advanced Institute of Science and Technology, South Korea

Use Cases

Use Case I – Media & Publishing
Large amounts of data resources from the legal domain are used to test and explore the commercial value of linked data in media and publishing. This data will be interlinked and merged automatically. Data from external sources will be used to semantically enrich the existing datasets. Adequate licensing and business models are also investigated with respect to the management of interoperable metadata.

Use Case II – Enterprise Data Web
Linked Data is a natural addition to the existing document and web service intranets and extranets. Corporate data intranets based on Linked Data technologies can help to substantially reduce data integration costs. Using the LOD2 Stack for linking internal corporate data with external references from the LOD cloud will allow a corporation to significantly increase the value of its corporate knowledge with relatively low effort.

Use Case III – Linked Governmental Data
The project will showcase the wide applicability of the LOD2 Stack through the evaluation of a case study targeting ordinary citizens of the European Union. LOD2 will establish a network of European governmental data registries in order to increase public access to high-value, machine-readable data sets. The methods developed in LOD2 will create a significant benefit, since they allow governmental data to be more easily explored, analyzed and mashed together. A special focus within this use case will be on the application of the LOD2 Stack for procuring contracts in the public sector. Data related to this area will be published and interlinked by using LOD2 tools and, subsequently, processed by using additional matchmaking and analytical services.

The main outcome of the project is a comprehensive Linked Data stack, which builds on, integrates and extends a large number of tools, services and knowledge bases including:

DBpedia, indice, OntoWiki, poolparty, SIG.MA, OpenLink Virtuoso, COAT, Exalead Enterprise Search, SILK, D2R