Workshops and Tutorials Sunday 27th May

Workshop Chairs: Raphaël Troncy, Alexandre Passant Tutorial Chairs: Irini Fundulaki, Emanuele Della Valle







Sunday, May 27th

- Creating Knowledge out of Interlinked Data: The LOD2 Tool Stack by Sebastian Tramp, Bert Van Nuffelen & Sören Auer (morning session)
- Data models, Query Languages, Implemented Systems and Applications of Linked Geospatial Data Manolis Koubarakis, Kostis Kyzirakos & Manos Karpathiotakis (afternoon session)
- The Web of Data for E-Commerce in Brief by Martin Hepp (afternoon session)



Creating Knowledge out of Interlinked Data: The LOD2 Tool Stack



- The LOD2 Stack is an integrated distribution of aligned tools
- The LOD2 Stack supports the complete Linked Data life-cycle
- After attending this tutorial, you are able to create, author, interlink & maintain Linked Data



Data models, Query Languages, Implemented Systems and Applications of Linked Geospatial Data

Why this tutorial:

- Lots of geospatial data available on the Web
- Lots of public data coming out of open government initiatives is geospatial.
- Lots of this public data is quickly being transformed into linked data and developers have started building applications with them.









TELEI



Data models, Query Languages, Implemented Systems and Applications of Linked Geospatial Data

- Basic concepts from Geographical Information Systems
- Relevant Open Geospatial Consortium standards
- Linked geospatial data
 - Data models and query languages
 - Implemented systems
 - Applications



The Web of Data for E-Commerce in Brief

- GoodRelations ontology used for applying Semantic Web Technology to business challenges.
 - Conceptual Structures of the Ontology
 - Tool Chain for *producing* and *consuming* GoodRelations-related data
 - Long-term vision of Linked Open Commerce
 - Discuss the challenges for *future research* in the field and *advanced topics* such as access control, and other data management issues

What's on Today?

6 Workshops

- Morning: Semantic big data processing (SBPM)
- Morning: Data or knowledge? (Know)
- Full Day: The RDF and REST love story (LAPIS)
- > Full Day: How to discover resources? (RED)
- > Full Day: Interoperability in Medical Informatics (SIMI)
- ➤ Afternoon: Finance and Economics on the SW (FEOSW)



Semantic BPM workshop - 7 years of evolvement

(BIG (STREAMING)) DATA (Light-weight (real-time)) SEMANTICS Semantics for more precise prediction facebook. Social/ Open Bus. Environment/ twitter streams People of semantics for more semantics for more semantics for more secution Predictive business analytics **Business Process** Context/IoT Data volume data (bytes) NOW PAST **FUTURE** Zetta **Business** Complex Semantics for better modeling **Process** external data **Event** Unstructured Processing Traditional reporting **Process** Years Months Days Hours Mins S S Mins Hours models Filtering/Retrieval (real-time (ahead of))

2009

2010

2011

2012

2006

2007

2008

Learn: What is challenging for the Semantic Big Data Processing

Understand: How to extract and use semantics in informal business processes

See: How Smartphone is sending semantic events about missing calls

Try: How semantics supports processing in an AR (Augmented Reality) system

Discuss: Why is Business Process Management (still) one of the most promissing application area for semantic technologies

7th Semantic BPM workshop

1982

"We are drowning in data, but starving for **knowledge**" John Naisbitt





2001

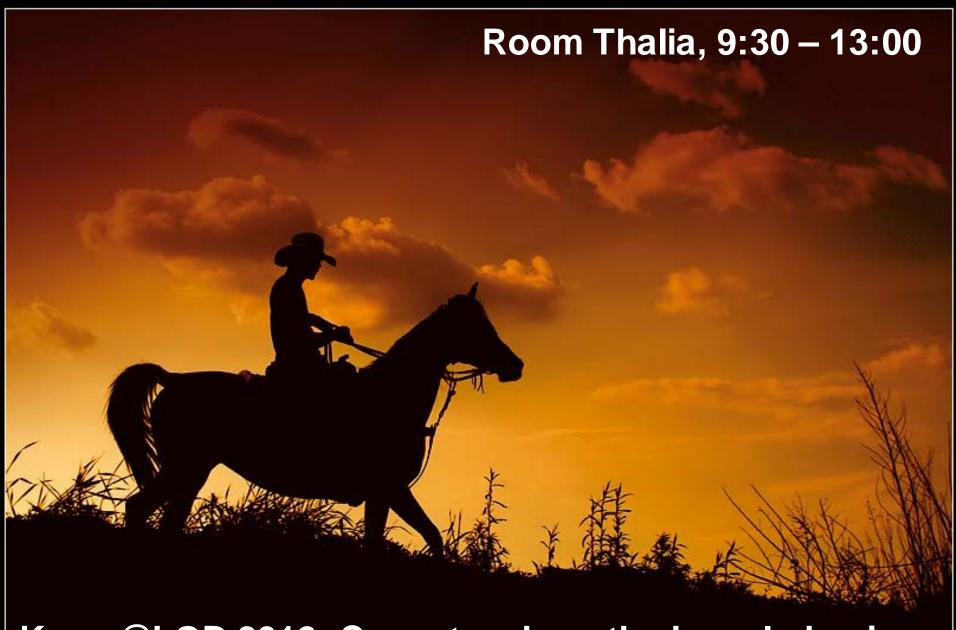
"Properly designed, the Semantic Web can assist the evolution of human **knowledge** as a whole."

Tim Berners-Lee, James Hendler, and Ora Lassilla

2012

17 paper titles with "data"
1 paper title with "knowledge"
(ESWC Conference Program)





Know@LOD 2012: Come to where the knowledge is.

Did you notice?

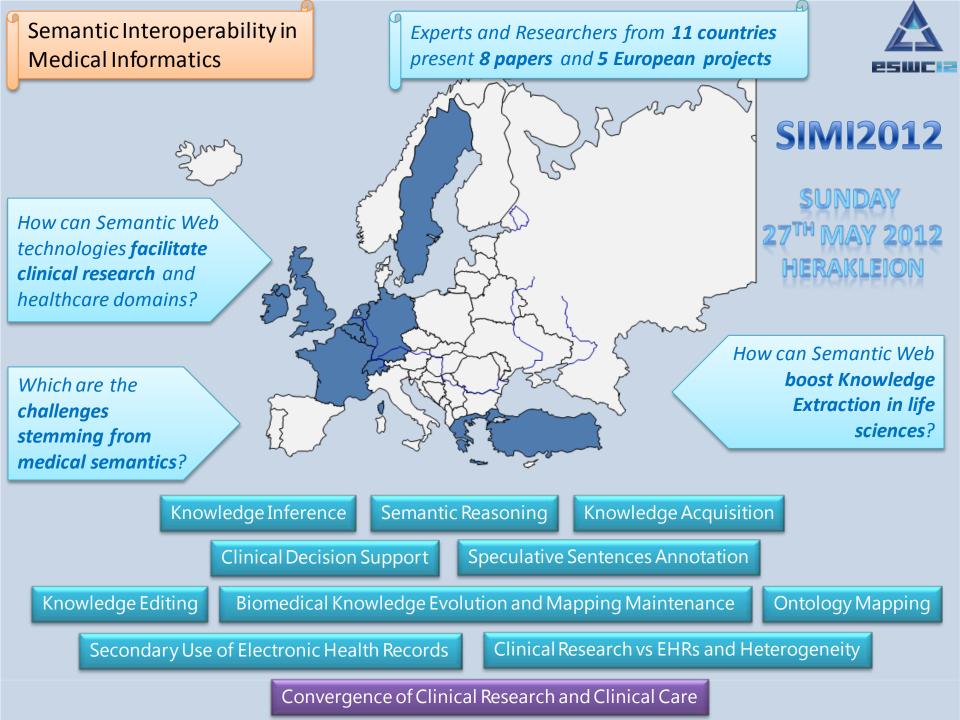


We did. And that's why we need you.

Join the LAPIS workshop to discuss why you hate services and the Semantic Web...

...or why you'd love to see them work together.

Linka I inkad Datacats SI source Discovery 🖋 the Gene Ontology



1st International Workshop on Finance and Economics on the Semantic Web (FEOSW): Yet Another Margin Call





Financial Information: Crystal Clear?







Semantic Web and Financial Information



- Linked Data can provide a reliable mechanism to share and spread Financial Information under a number of conventios
- Necessary standardization of Financial Information for shareholders and stakeholders

Yet another Margin Call?







What and Where

Tutorials & Workshops: Sunday, May 27th, 2012

ROOM	HERMES	CLIO	EFTERPI	THALIA	MELP0	KALIA	ERATO	POLYMNEA	OURANIA	APOLLON
9:00 - 09:30	Plenary: Highlights of the Day Session Chairs: Alexandre Passant RaphaëlTroncy Emanuella della Valle Irini Fundulaki									OWLED Workshop
9:30 - 10:30		Tutorial 1: Creating Knowledge out of Interlinked Data:The LOD2 Tool Stack	Workshop 1 SBPM: Semantic Business Process Management	Workshop 2 KNOW: Knowledge Discovery and Data Mining Meets Linked Open Data	Workshop 3 LAPIS: Linked APIs for the Seman- tic Web: An essential prob- lem in need of a fresh look	Workshop 4 RED: REsource Discovery			Workshop 5 SIMI: Semantic Interoperability in Medical Informatics	
10:30 - 11:00	COFFEE BREAK									
11:00 - 12:30		Tutorial 1: Creating Knowledge out of Interlinked Data: The LOD2 Tool Stack	Workshop 1 SBPM: Semantic Business Process Management	Workshop 2 KNOW: Knowledge Discovery and Data Mining Meets Linked Open Data	Workshop 3 LAPIS: Linked APIs for the Seman- tic Web: An essential prob- lem in need of a fresh look	Workshop 4 RED: REsource Discovery			Workshop 5 SIMI: Semantic Interoperability in Medical Informatics	OWLED Workshop
12:30 - 14:00	LUNCH BREAK									
14:00 - 15:30		Tutorial 2: The Web of Data for E- Commerce in Brief - Good Relations	Tutorial 3: Data models, Query Languages, Implemented Systems and Applications of Linked Geospatial Data	Workshop 6 FEOSW: Finance and Economics on the Semantic Web	Workshop 3 LAPIS: Linked APIs for the Seman- tic Web: An essential prob- lem in need of a fresh look	Workshop 4 RED: REsource Discovery			Workshop 5 SIMI: Semantic Interoperability in Medical Informatics	OWLED Workshop
15:30 - 16:00	COFFEE BREAK									
16:00 - 17:30		Tutorial 2: The Web of Data for E- Commerce in Brief - Good Relations	Tutorial 3: Data models, Query Languages, Implemented Systems and Applications of Linked Geospatial Data	Workshop 6 FEOSW: Finance and Economics on the Semantic Web	Workshop 3 LAPIS: Linked APIs for the Seman- tic Web: An essential prob- lem in need of a fresh look	Workshop 4 RED: REsource Discovery			Workshop 5 SIMI: Semantic Interoperability in Medical Informatics	OWLED Workshop

