ORGANIZATIONAL DETAILS

- No fees to be paid by European Participants.
- Travel and hotel of participants will be covered by RISIS.
- Lunch and coffee breaks will be organized on site for all participants.

Linked Data for Science & Innovation Studies

Venue: Vrije Universiteit Amsterdam

Start date: March 23, 2017

End date: March 24, 2017

Deadline for request participation: March 10

RISIS
Research infrastructure for research and innovation policy studies

SEVENTH FRAMEWORK PROGRAMME

http://sms.risis.eu

vrije Universiteit amsterdam

LOCAL ORGANIZING COMMITTEE:
Contact persons: dr. Ali Khalili <a.khalili@vu.nl>; prof. dr. Peter van den Besselaar <p.a.a.vanden.besselaar@vu.nl>

Linked Data for Science & Innovation Studies

23-24 March 2017

RISIS
Research infrastructure for research and innovation policy studies

SEVENTH FRAMEWORK PROGRAMME

Linked Data for Science & Innovation Studies

Vrije Universiteit Amsterdam

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COURSE OBJECTIVES

The aim of the course is that researchers firstly become aware of the potential benefits of Linked Open data – using (science and innovation studies) field specific examples, secondly to provide knowledge and skills to formulate the relevant questions related to data integration, and thirdly to introduce methods and tools for data linking, and for exploring, analyzing and visualizing linked data, as embedded in the Semantically Mapping Science (SMS) platform.

COURSE DESCRIPTION

Over the last couple of years, many governmental institutions, research communities and individuals have figured out that data is better off being shared and integrated with other data rather than staying behind locked doors. This change of mindset triggered a movement to publish Linked Data on the Web, in different formats. Linked Data brings the promise of incorporating a new dimension to the Web where the availability of Web-scale data can determine a paradigmatic transformation of the Web and its applications. But it may also support social science researchers who may start to deploy these linked open data.

In this course we will first discuss the motivations behind publishing Linked Data compared to the traditional centralized data silos. Then, we will discuss the basic principles and building blocks of the Linked Data. The second part of the tutorial will address the knowledge and tools required to generate, store, query, analyze, and visualize Linked Data. Throughout the lectures, we will provide hands-on sessions for people to practice and interact with Linked Data in the domain of science and innovation studies.

PROGRAMME AND CONTENT

Day 1 -

- Introduction to Linked Data
  - What is Linked Data? Why do we need Linked Data?
  - What are the principles and building blocks of the Linked (Open) Data?
- Introduction to Linked Data Lifecycle
  - What are the steps required to create Linked Data?
- Data Extraction
- Data Storage
- Linked Data Visualization & Exploration
- APIs and Linked Data Services

Day 2 -

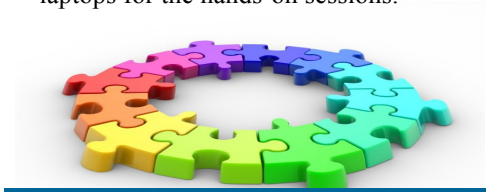
- Data Harmonization
- Data Enrichment
  - Geo-enrichment
  - NLP & Named Entity Recognition
- Data Interlinking
  - Tools for schema alignment.
- Reasoning over Linked Data
  - How to infer new facts from existing data.

AUDIENCE TARGETED

Researchers (graduate and undergraduate) interested in data integration in science and innovation studies, from within the RISIS consortium and from outside. Participants can either be active researchers in the field, or data/information/computer scientists working together with STI studies researchers

REQUIREMENTS FOR PARTICIPATION

As this is an introductory course, no previous knowledge on Linked Open Data is required. Previous experience with programming and database technology will be helpful, but is not strictly required. Participants are expected to bring their own laptops for the hands-on sessions.



This course is part of the Training Activities of the RISIS Project (http://risis.eu/training)