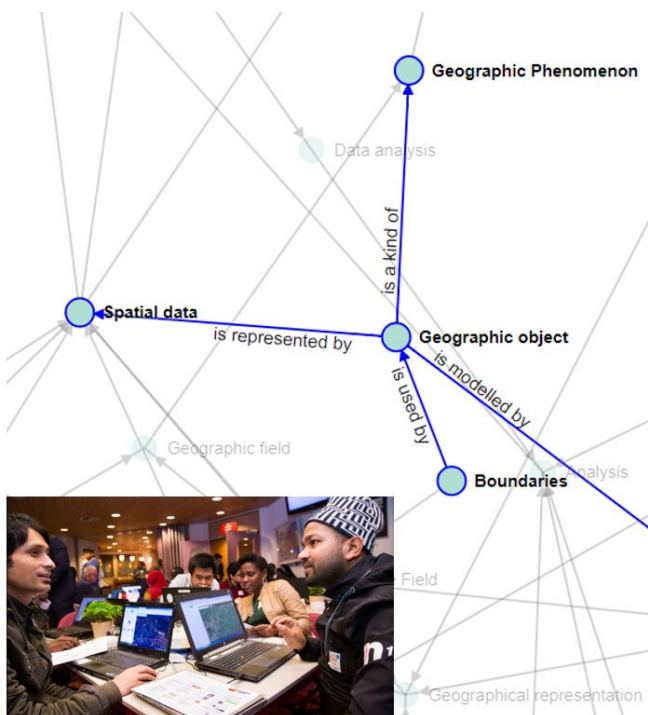


Brown bag lunch with

Dr. Rob Lemmens



The Semantic Web: Using ontologies and linked data to support geodata creation, discovery and integration



The **Semantic Web** is the next step to connect web information more intelligently. This is done through formalized linked data and ontologies. Ontologies contain descriptions of domain concepts such as 'tree', 'building', 'water', and they provide a way to structure knowledge by describing essential relationships between these concepts and their instances in the real world. They are used for example in medicine and biology to (1) create a common understanding between scientists and practitioners, (2) to create intelligent computer applications and (3) to discover and integrate data sources, basically linking any data source with any other data source published on the web. The presentation will provide examples of cases in which the Semantic Web is and can be used to support geodata creation, discovery and integration.

Rob Lemmens is Assistant Professor Applied Computer Science in the Department of Geoinformation Processing at ITC, University of Twente, The Netherlands since 1998. He holds a PhD in Geoinformatics from Delft University of Technology. His expertise consists of Volunteered Geoinformation, geosensors, Spatial Data Infrastructures and semantic modelling of geoinformation. Rob is involved in several OpenStreetMap activities, such as mapping events within the Missing Maps initiative.

September 15, 12:00-1:00 PM

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