# Empowering Enterprise Data Governance with BSG

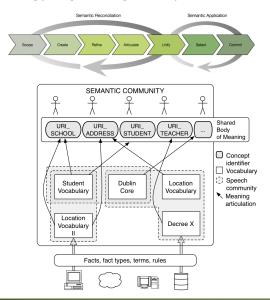
Christophe Debruyne<sup>1</sup>, Pieter De Leenheer<sup>2,3</sup>, Robert Meersman<sup>1</sup>
<sup>1</sup> Semantics Technology and Applications Research Lab, Vrije Universiteit Brussel, Brussels, Belgium <sup>2</sup> Business Web and Media, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands 3 Collibra nv/sa, Brussels, Belgium

### **Problem**

For a Linked Data service market to flourish, one has to consider the data governance aspects. Especially in a business context, domain rules are important. One such important domain rule is an conceptual identification structure. Enabling communication and interoperation between autonomously developed information systems – each represented by stakeholders – requires an ontology. Community involvement is primordial and thus appropriate methods and tools are needed. One can draw inspiration from database modeling techniques.

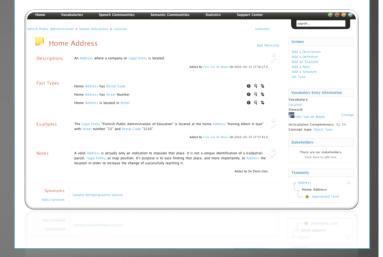
## **Business Semantics Management**

- Fact-oriented, adopting SBVR (Business rules)
- Two complementary cycles
- Ontology engineering vs. implementation



## **Business Semantics Glossary**

- Built around wiki technology
- Community driven
- Natural language facts and definitions
- Export/Import from RDFS/OWL via MOF



### Case: Flemish Public Administration sam

- Flanders Research Information Space program
- Virtual environment for research information
- Goals: central repository and lowering administrative burden of research institutions
- How: annotating existing databases and automatic linking of data (via conceptual identifiers)
- Use Business Semantics Management and Glossary to capture the knowledge and business rules in an ontology
- Transform the ontology in BSM/SBVR into RDFS/OWL, in turn linked with existing vocabularies
- Publish data gathered by FRIS as Linked Data on the Web, with D2R Server (http://www4.wiwiss.fuberlin.de/bizer/d2r-server/)
- Annotate instances with exported ontologies
- Use business rules to automatically link data about







