Semweb LLC

- Founded 2007 in Küsnacht ZH
- •Owner: Fabio Ricci
- •+ Network
- Several projects in Semantic Search RDF Thesaurus Processing Linked Data Processing
- Aggregating heterogeneous data sources (RDF)
- Modeling and generating RDF out of non RDF sources
- Refining Search via Semantics
- Entity Linking from free text
- Innovative web applications around RDF
- Deep experience in Document Management
- Development of RDF online Services

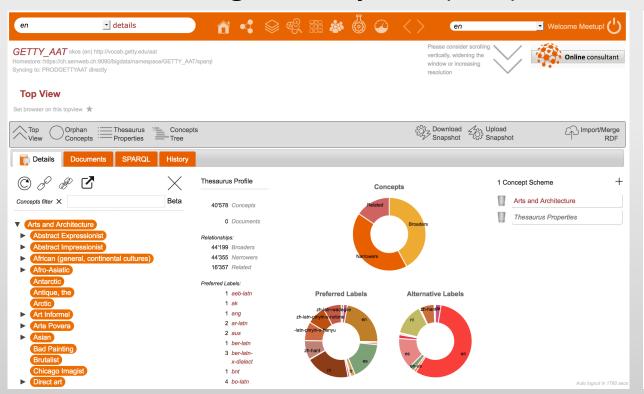


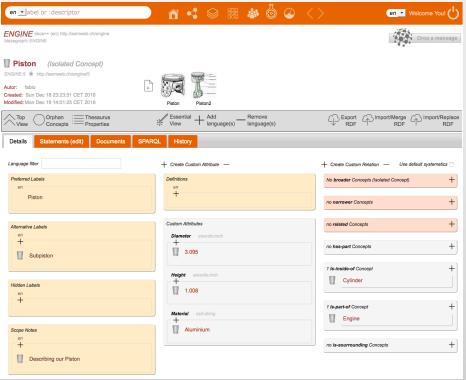
- Thesaurus Management as a Service, Develop, operate and maintain SKOS Thesauri – online / on site https://skosshuttle.ch/
- Generation of Linked Data as a service, Mapping xml/SQL data to RDF – online / on site http://rdflink.ch/

SKOS Shuttle

https://en.wikipedia.org/wiki/Skos_Shuttle_(software)

Thesaurus Management System (TMS) as a Web Service





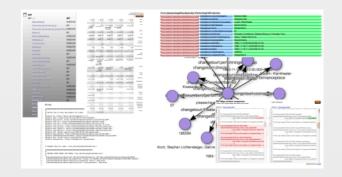
SKOS Shuttle

- ☐ Hosted in Switzerland
- ☐ Enhanced Thesaurus Management (documents)
- ☐ RDF triple editing in short and full mode
- Operates on remote RDF repositories
- Quick concept deorphanization
- ☐ Systematics assistant to cope with different systematics
- ☐ RDF Synchronization of thesauri (Taxonomy Governance)
- ☐ Complete **project management**



SKOS Shuttle

- ☐ Custom relations
- ☐ Custom attributes ├ "SKOS++"
- ☐ Units of measure
- □ OWL extension "SKOSOWL"
- ☐ Works with 7 major RDF stores: AllegroGraph, Blazegraph, GraphDB, Jena-Fuseki, MarkLogic, Stardog, Virtuoso



RDFLINK is a Web-Service for mapping legacy data into RDF

→ Generate your Knowledge Graph with RDFLINK

Legacy Data:

XML-Daten

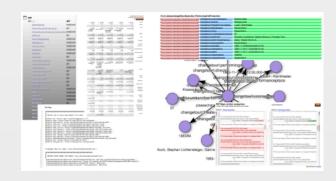
CSV-Daten

LOG-Daten

SQL-Daten



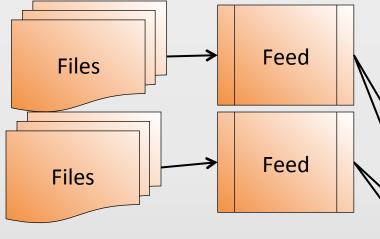
Swiss projects with RDFLINK



- 1. LODZH https://www.zhdk.ch/lodz Data from 4 Zurich culture institutes RDFised
- 2. Hackathon Basel http://make.opendata.ch/wiki/project:glamsearchportal Data from 4 heterogeneus data sources RDFised.

For both projects an appropriate RDF search engine was developped.

Process structure

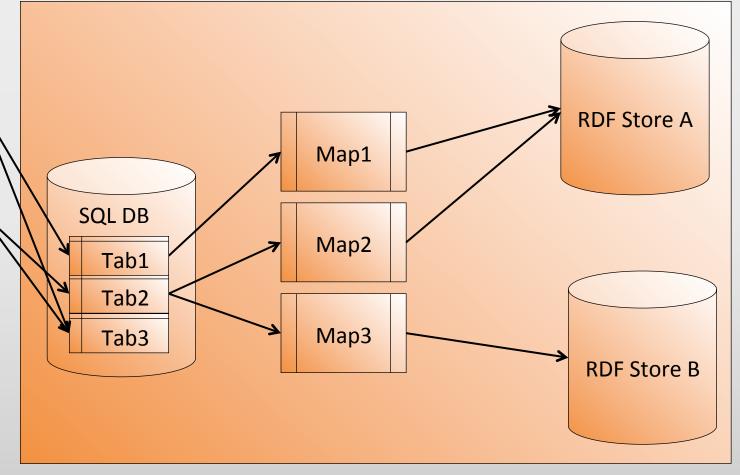


Support for **Process Mining**:

e.g. application logs are streamed into a Knowledge Graph.

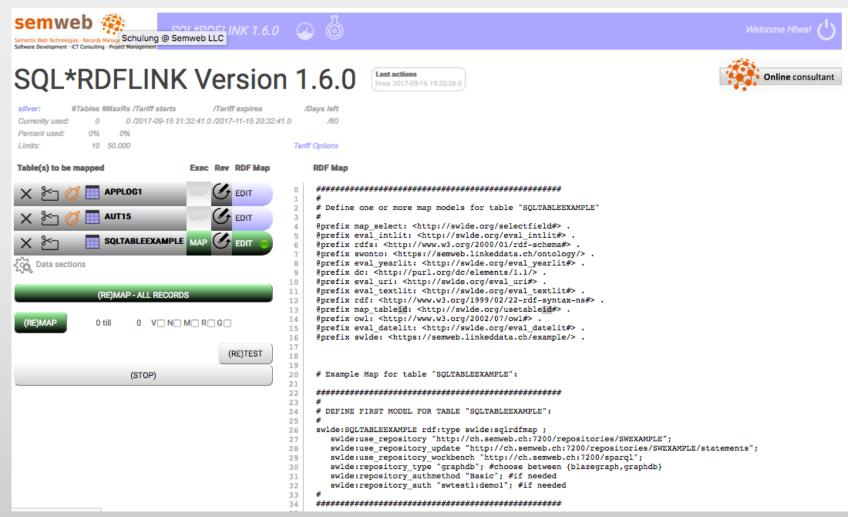
Process Mining:

http://oro.open.ac.uk/23397/1/ TowardsSemanticProcessMiningTo ol-ECIS2008.pdf



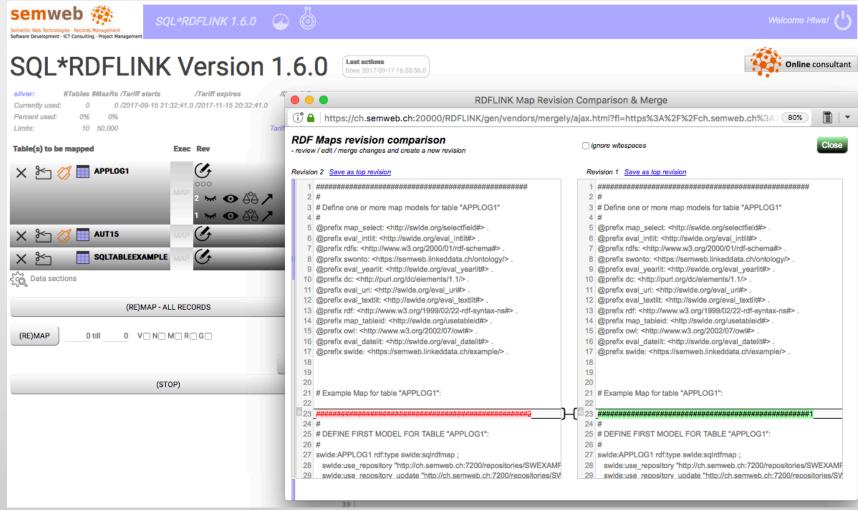


- The nucleus of RDFLINK consists of SQL tables.
- Each table one of more RDF mapping in TURTLE can be defined.
- Each mapping sends RDF data into RDF stores.
- Mappings can be checked-in/out.





- Mappings are versioned at each check-in.
- Versions are comparable via mergely diff.
- Version processing allows to merge old modifications into the current version.





Thank you!



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