Model-based Support for OSLC Based Tool Interoperability

Challenges:
- Information specification
- Compliance to standard(s)
- Tool-Data ownership

Aim: Investigate how a distributed tool architecture – as promoted by the Linked Data approach - can be realised, while ensuring some control over the overall information model that the tools adopt in the organisation.

Deliverable:
A modelling environment to support tool-chain development

Support for multiple perspectives
1. Tool-Data ownership
2. Domain-data specifications
3. Adaptor implementation model

Support across the V-process
- Specifications
- Implementation
- Adaptor testing
- Integration testing
- Automatic code & test generation

A model-based (MBD) approach

Domain-specific language
- Graphical notation for Linked Data and OSLC

2 Variants:
* An EA UML profile
* An Eclipse-based domain-specific language