



Investigation of authoring tools for the Semantic Web

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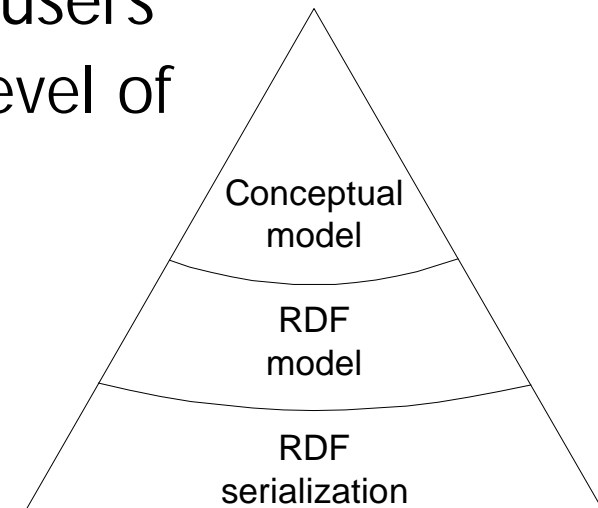


- General
 - XML serialization of RDF a barrier to adoption and implementation of Semantic Web based technologies.
 - Authoring tools aid in tackling this problem.
- SIMILE
 - Sections of the Schema and Meta-data Instance lifecycles, and Heterogeneous Schema and Instance data support Use case can be supported by such tools.

- RDF Editors
 - IsaViz
 - RDFAuthor
- Ontology Visualisation
 - OntoRama
 - VIUM
 - OntoSaurus
- Schema Editors
 - OilEd
 - Protege-2000
 - KAON OI-Modeller
 - Ontolingua
- Application profile editors
 - SCART: The MEG Registry Client
- Meta-data instance editors
 - Haystack
 - SHAME
 - SIC
- Thesaurus construction
 - Webchoir TCS-8
 - Thesaurus Builder
 - MultiTes
 - Term Tree

Software Review (Conclusions 1)

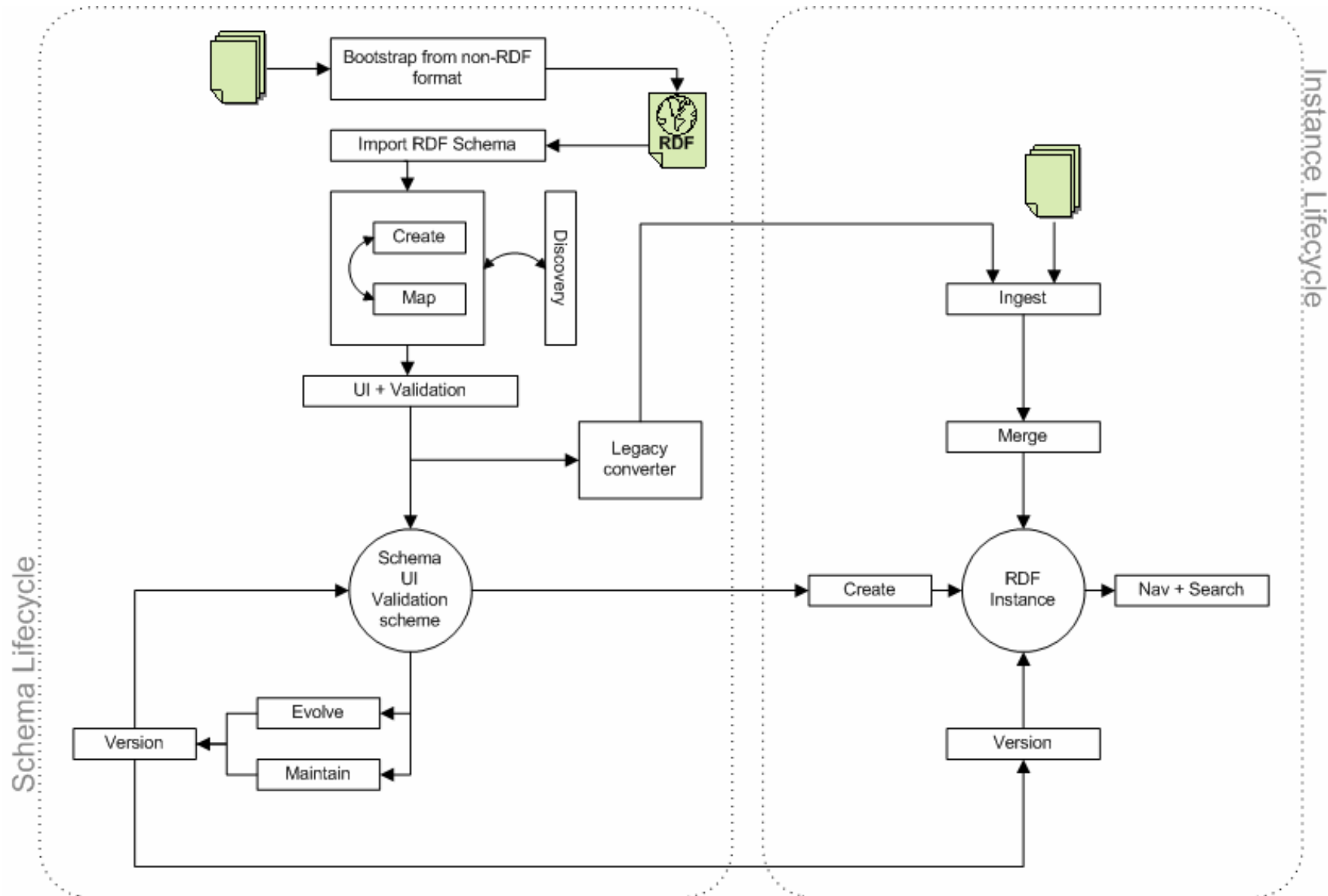
- RDF Model too low level for most end-users
 - Need software to allow users work at level of a conceptual model
- Terminology used in tools is obscure
- Use of tabs helps break down task of defining Ontologies
- Need to draw distinction between element sets and controlled vocabularies
 - OWL uses classes to represent both!



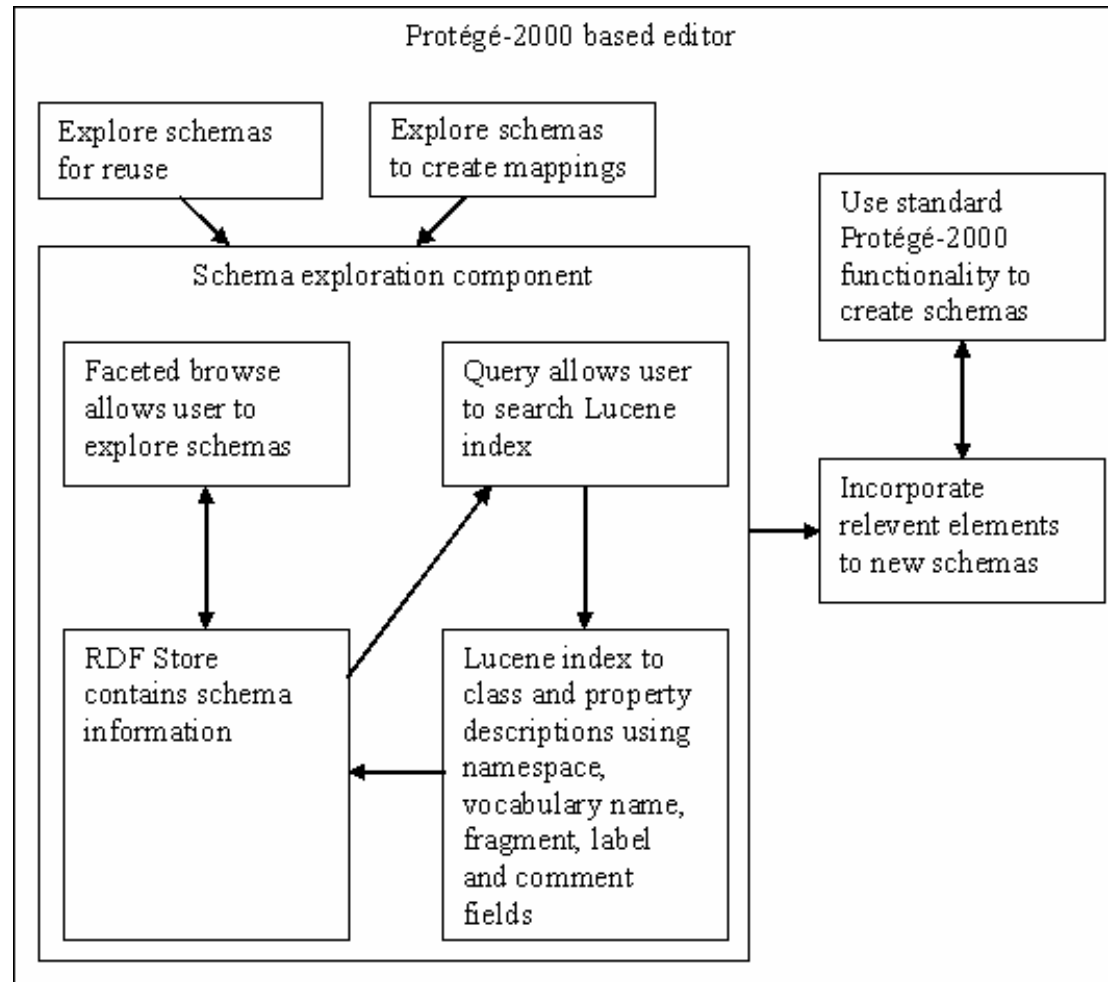
Software Review (Conclusions 2)

- Existing tools do not provide support for schema modelling
- Work remains to be done on incorporating re-use of existing elements
 - Problem has been looked at by MEG Registry project, but targeted at wrong application
- Best visualisations are tree-based
 - Several variations on 'tree'
 - Multiple visualisations provided by most tools

Heterogeneous schema & instance data support use case



Architecture to support element re-use





i n v e n t