Finding ontologies
- Multi-facet search interface with text search
  - available facets: subject, structure and the publishing status of the ontology
  - text search matched to the labels and description texts of the ontologies
  - Ontologies can be searched based on their contents, i.e. concepts they contain (see the section "Finding concepts")

Finding concepts
- Autocompletion text search matched to the labels of the concepts
  - all the ontologies in the repository or a single ontology can be searched
  - several concepts with a same label are grouped together
  - additional restrictions: concept type, group or subconcepts of a specific concept
  - Properties of the concepts are displayed in the search results
  - browsing between related concepts
  - browsing between ontologies via mapping relations

Solution
- The ONKI2 browser provides a user interface for finding ontologies and concepts.

System implementation
- PHP application using the Zend Framework for the MVC architecture
- Ontology multi-facet search interface generated with the SIMILE Exhibit
- Ontology metadata processed with the ARC RDF library
- Distributed network of ONKI SKOS ontology servers used as a ontology repository

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Fig. 1. Concept searching and browsing in the UNSPSC vocabulary.
- The user is searching for subconcepts of the concept "Services" whose label start with the string "ap".
- The concept "apiculture" has been selected for further investigation.

Fig. 2. Multi-facet search view of ontologies.
- The user is searching for a public (publishing status facet) advanced vocabulary (structure facet) in the domain of health or nature (subject facet) with a query string "mes".

Fig. 3. Overview of the UNSPSC vocabulary.