GOALS
1. Respect the local project vocabulary
2. Map project vocabulary to community trusted, authoritative sources, mapping to terms that are dereferencable and unambiguous
3. To support science-driven research

TECHNOLOGY
The identified Community Vocabularies (served by the NERC Vocabulary Server v2.0, http://vocab.nerc.ac.uk/) are:
1. “available” as SKOS
2. “queryable” at a SPARQL endpoint (http://vocab.nerc.ac.uk/sparql/sparql)

TASK
Use Drupal’s semantic capabilities to assist mapping project-specific vocabulary terms to community vocabulary terms.
• Store project vocabularies as Taxonomy
• Consume community vocabulary as Taxonomy
• Associate Project terms to Community terms with a Term Reference field
• Expose Project Terms with SPARQL Endpoint

Using Taxonomy (TAX)
1. Make Drupal Vocabulary fieldable
   To distinguish between Project & Community Vocabularies, make taxonomy vocabulary “fieldable” with fields:
   - type: “Project”, “Community”, N/A
   - managers: set of Drupal Users allowed to edit vocabulary
   - source URI: URI to the SKOS of Community Vocabulary
   - SKOS Registry: SKOS Registry Entity Reference

   modules: taxonomy_xml, custom: taxonomy_xml_fields

2. Create Mapping Field
   Vocab modules: term_reference

Mapping Terms → Queryable with SPARQL (MAP)
1. Register SPARQL Endpoint and Setup Resources and Views
   modules: rdfx, sparql, sparql_views

2. Manage Display of Community Terms and Attach SPARQL View to the term display
   For a term, present additional information from a SPARQL endpoint.
   modules: eva

Consume Community Vocabularies (SKOS)
1. Import/Update Community Vocabulary
   creates hierarchical taxonomy with fields for only:
   - Name, Description and URI

   modules: taxonomy_xml, custom: taxonomy_xml_fields

Expose the Mappings (SPARQL)
Allow other systems to consume how project terms were mapped to community terms.

The Biological and Chemical Oceanography Data Management Office
Maintaining scientific community vocabularies in Drupal through consumption of linked open data

Expose the Mappings

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