# Implementing Widely-used vocabularies to produce linked open data in the context of open repositories

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# Background

- Linked Data refers to a set of best practices for publishing, sharing, and interlinking structured data on the Web.
  - Its main objective is to liberate data from silos that are framed by proprietary database schemas
- Linked Open Data (LOD) is Linked Data distributed under an open license that allows its reuse for free.

### **Current Situation**

- To publish open access documents on the Web is NOT enough for being part of the Web of Data.
- Existing methodologies, standards and technologies available to facilitate the publication and exchange of data

## The Agricultural Open Data Initiatives

- Development and maintenance of standards and controlled vocabularies for consuming and producing LOD:
  - Recommendations to expose LODE-BD
  - Subject Controlled Vocabularies (SKOS), the case of AGROVOC
- Customization of Open Source Institutional Repository software to facilitate the process

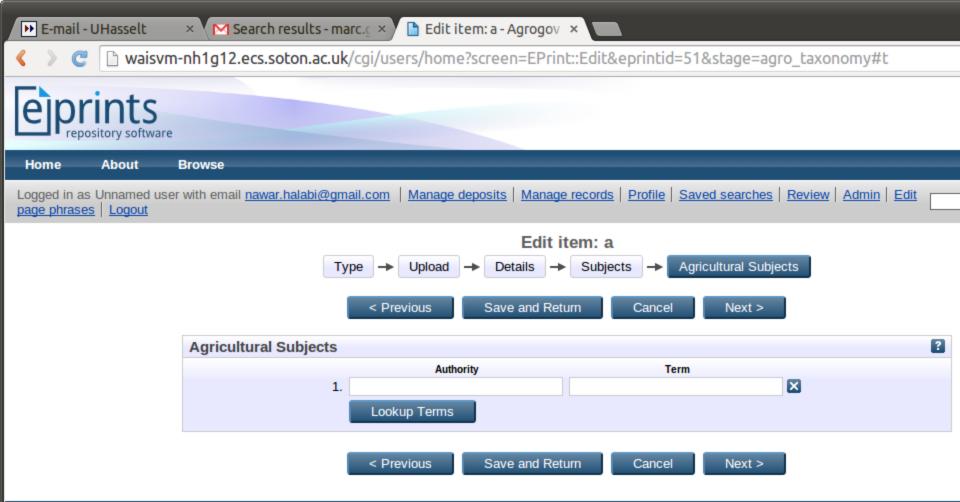
### **Benefits**

- Opportunity to develop local and wider services on open access resources aggregating additional information resources.
- Enrichment of data from other Linked Data sources, especially controlled vocabularies, authority data and syntax encoding standards.
- **Increased exposure** of institutional repository collection to web search engines.
- Collections easier to access while also making new applications more useful.
- Reduction of redundancy of bibliographic descriptions on the Web.

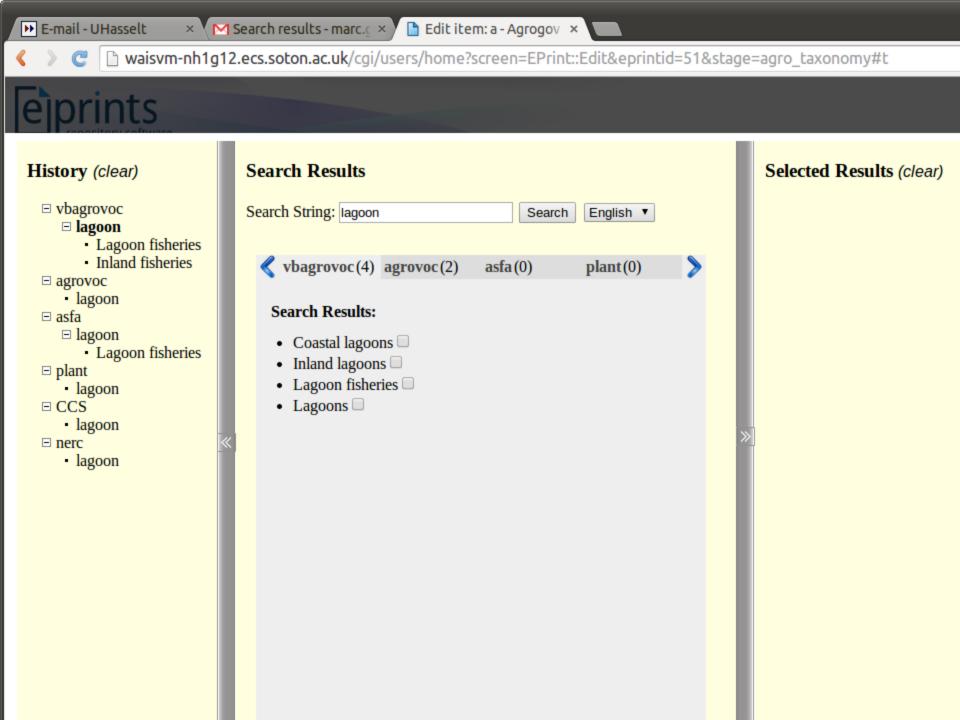
# **Providing the Tools**

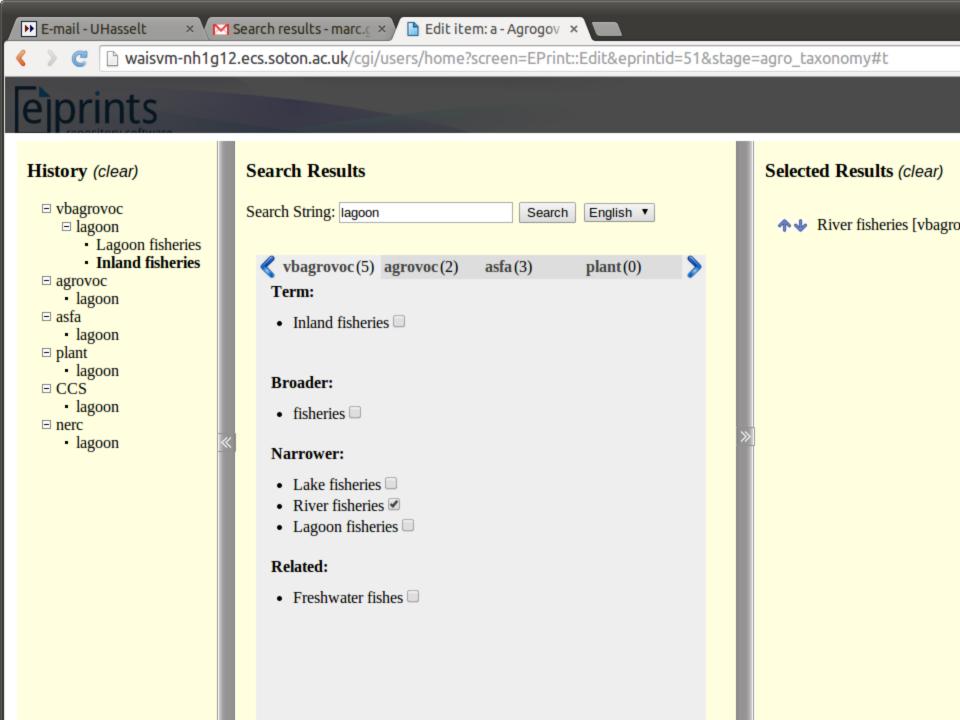
- The most recent work focus on the implementation of an authority tool in the submission process of Eprints Software.
- Objective: to facilitate the use of controlled vocabularies published as Linked Open Data, and the exposure of data on the Semantic Web.
- Project technically implemented by the University of Southampton in partnership with FAO, UNESCO-IOC/IODE and Hasselt University Library.

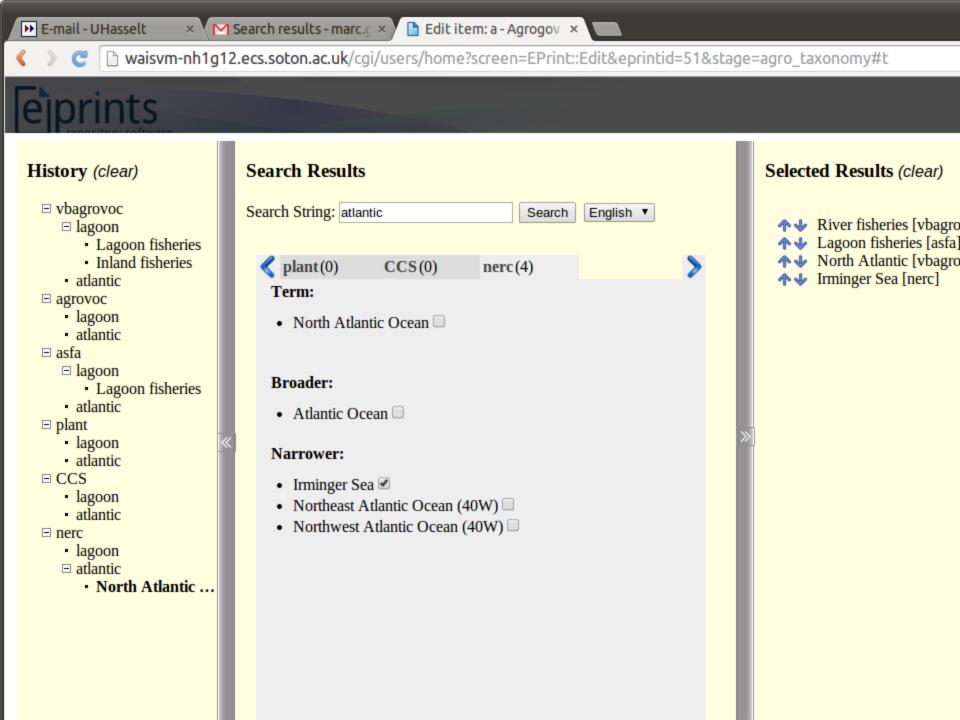
# **Eprints Add-on to consume and expose Linked Open Data**

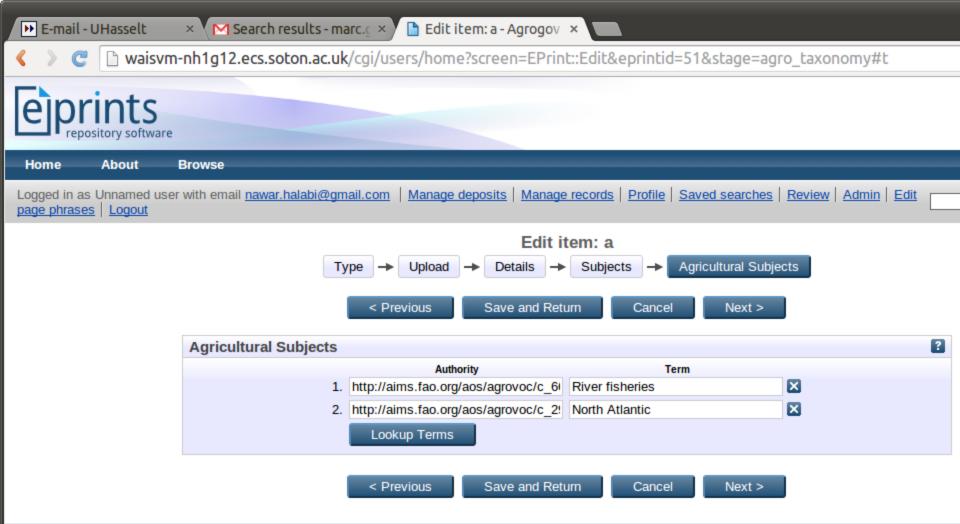


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# Thanks!