

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 LOD-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**



Edit item: a

Type → Upload → Details → Subjects → **Agricultural Subjects**

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Agricultural Subjects ?

	Authority	Term
1.	<input type="text"/>	<input type="text"/> ×

Lookup Terms

< Previous Save and Return Cancel Next >

History *(clear)*

- [-] vbagrovoc
 - [-] **lagoon**
 - Lagoon fisheries
 - Inland fisheries
- [-] agrovoc
 - lagoon
- [-] asfa
 - [-] lagoon
 - Lagoon fisheries
- [-] plant
 - lagoon
- [-] CCS
 - lagoon
- [-] nerc
 - lagoon

Search ResultsSearch String: ▾[<](#) [vbagrovoc\(4\)](#) [agrovoc\(2\)](#) [asfa\(0\)](#) [plant\(0\)](#) [>](#)**Search Results:**

- Coastal lagoons
- Inland lagoons
- Lagoon fisheries
- Lagoons

Selected Results *(clear)*

History *(clear)*

- ▣ vbagrovoc
 - ▣ lagoon
 - Lagoon fisheries
 - **Inland fisheries**
- ▣ agrovoc
 - lagoon
- ▣ asfa
 - lagoon
- ▣ plant
 - lagoon
- ▣ CCS
 - lagoon
- ▣ nerc
 - lagoon

Search ResultsSearch String: [vbagrovoc\(5\)](#) [agrovoc\(2\)](#) [asfa\(3\)](#) [plant\(0\)](#)**Term:**

- Inland fisheries

Broader:

- fisheries

Narrower:

- Lake fisheries
- River fisheries
- Lagoon fisheries

Related:

- Freshwater fishes

Selected Results *(clear)*[↑](#) [↓](#) River fisheries [vbagrovoc]

History *(clear)*

- [-] vbagrovoc
 - [-] lagoon
 - Lagoon fisheries
 - Inland fisheries
 - atlantic
- [-] agrovoc
 - lagoon
 - atlantic
- [-] asfa
 - [-] lagoon
 - Lagoon fisheries
 - atlantic
- [-] plant
 - lagoon
 - atlantic
- [-] CCS
 - lagoon
 - atlantic
- [-] nerc
 - lagoon
 - [-] atlantic
 - **North Atlantic ...**

Search Results

Search String: atlantic

Search

English ▾

[← plant\(0\)](#)
[CCS\(0\)](#)
[nerc\(4\) →](#)

Term:

- North Atlantic Ocean

Broader:

- Atlantic Ocean

Narrower:

- Irminger Sea
- Northeast Atlantic Ocean (40W)
- Northwest Atlantic Ocean (40W)

Selected Results *(clear)*

- ↑↓ River fisheries [vbagrovoc]
- ↑↓ Lagoon fisheries [asfa]
- ↑↓ North Atlantic [vbagrovoc]
- ↑↓ Irminger Sea [nerc]



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Agricultural Subjects ?

	Authority	Term	
1.	<input type="text" value="http://aims.fao.org/aos/agrovoc/c_6i"/>	<input type="text" value="River fisheries"/>	<input type="button" value="x"/>
2.	<input type="text" value="http://aims.fao.org/aos/agrovoc/c_2i"/>	<input type="text" value="North Atlantic"/>	<input type="button" value="x"/>

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Thanks!