AgroPortal: A Proposition for Ontology-Based Services in the Agronomic Domain
Clement Jonquet, Esther Dzalé-Yeumo, Elizabeth Arnaud, Pierre Larmande, Anne Toulet, Marie-Angélique Laporte

To cite this version:

HAL Id: lirmm-01397465
https://hal-lirmm.ccsd.cnrs.fr/lirmm-01397465
Submitted on 15 Nov 2016

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.
AgroPortal

a proposition for ontology-based services in the agronomic domain

Clement Jonquet, Anne Toulet, Esther Dzalé-Yeumo, Marie-Angelique Laporte, Elizabeth Arnaud, Pierre Larmande

The challenge

Biologists have adopted ontologies (knowledge representation, annotation, data integration)... But ontologies are: spread out, in different formats, of different size, with different structures.

→ How to enable straightforward use of agronomic ontologies?

→ Develop and support a reference ontology repository for the agronomic domain

http://agroportal.lirmm.fr

Reuse NCBO technology

NCBO Biportal : a web repository for biomedical ontologies:
• Users can publish, download, browse, search, comment, align ontologies and use them for annotations both online and via a web services API.
• http://bioporal.bioontology.org
• Domain independent & open source
• Fully semantic web compliant
• Focus on biomedicine
• Many plant/agronomy related ontologies are not covered

Driving Uses-Cases

• IBC Rice Genomics & AgroLD project (http://agrold.org) : RDF data integrated from a variety of plant resources and ontologies

• RDA Wheat Data Interoperability working group:
  common framework for describing, representing, linking and publishing wheat data with respect to open standards

• INRA Linked Open Vocabularies, (http://lov.inra.fr): publish vocabularies produced or co-produced by INRA scientists and foster their reuse beyond the original researchers

• The Crop Ontology (www.cropontology.org): publishes ontologies required for describing crop germplasm, traits and evaluation trials

@ jonquet@lirmm.fr

In collaboration with

SIFR project
www.lirmm.fr/sifr

With support of