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a proposition for ontology-based services in the agronomic domain
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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://bioportal.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://lovinra.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

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