

The Agronomic Linked Data (AgroLD) project

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<http://agrold.org>

ABSTRACT. Agronomy is an overarching field that consists of various areas of research such Genetics, Plant Molecular Biology, Ecology and Earth Science. At the Institute of Computational Biology (IBC), we are currently building a RDF knowledge base, Agronomic Linked Data (AgroLD – www.agrold.org). The knowledge base is designed to integrate data from various publically available plant centric data sources. The aim of AgroLD project is to provide a portal for bioinformatics and domain experts to exploit the homogenized data model towards filling the knowledge gaps. To this end, we plan to engage with stakeholders in demonstrating the advantages of SW in answering complex domain relevant questions that were unapproachable using traditional methods, strategically filling knowledge gaps.

TECHNICAL CONTENT. The demonstration will show real life biological questions on distributed triplestores according different user interfaces (e.g. visualization, SPARQL, Keywords, Forms). Also, the demonstration will give a brief overview of the domain ontologies used to link the different datasets.

ORIGINALITY. The objective of the current effort is to develop RDF knowledge bases that integrate existing domain specific ontologies and data from the respective French regional bioinformatics agronomic portals, promoting data interoperability between the resources. The demonstration will show real life biological questions on distributed triplestores.