D2KAB project taking off: Data to Knowledge in Agronomy and Biodiversity

To cite this version:
Sophie Aubin, Anne-Francoise Adam-Blondon, Michael Alaux, Mouhamadou Ba, Stéphan Bernard, et al.. D2KAB project taking off: Data to Knowledge in Agronomy and Biodiversity. 14th RDA Plenary Meeting, Oct 2019, Helsinki, Finland. 2019, 10.5281/zenodo.3520300. lirmm-02351000

HAL Id: lirmm-02351000
https://hal-lirmm.ccsd.cnrs.fr/lirmm-02351000
Submitted on 6 Nov 2019

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Agronomy/agriculture and biodiversity (ag & biodiv) communities face several major societal, economic, and environmental challenges that data science approaches will help address. To achieve their goals, researchers of these communities must be able to rapidly discover, aggregate, integrate, and analyse different types of data and information sources. Semantic technologies, combined to open, FAIR data and services, is one of the answers to fully knowledge-driven, and transparent science and innovation.

The D2KAB project aims to create a framework to turn agronomy and biodiversity data into knowledge – semantically described, interoperable, actionable, open – and investigate the scientific methods and tools to exploit this knowledge for applications in agriculture and biodiversity sciences.

This project funded by French ANR (2019-2023), will provide the means –ontologies and linked open data– for ag & biodiv to embrace semantic Web technologies in order to produce and exploit FAIR data and services.

A national component of an international ecosystem

D2KAB’s work is starting from the recommendations of several RDA WG and IG already published or in progress: Agrisemantics WG, Vocabulary Services IG, Wheat and Rice Data Interoperability WGs, Agricultural Data IG, SHARC IG.