



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

Sophie Aubin, Anne-Francoise Adam-Blondon, Michael Alaux, Mouhamadou Ba, Stéphan Bernard, Pierre Bisquert, Robert Bossy, François Brun, Patrice Buche, Arnaud Castelltort, et al.

► 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 Research Data Alliance Plenary Conference (RDA P14), Best poster award, Oct 2019, Helsinki, Finland. , 2019, 10.5281/zenodo.3520300 . lirmm-02351000

HAL Id: lirmm-02351000

<https://hal-lirmm.ccsd.cnrs.fr/lirmm-02351000>

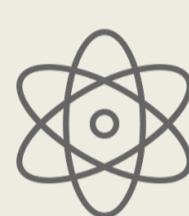
Submitted on 6 Nov 2019

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.

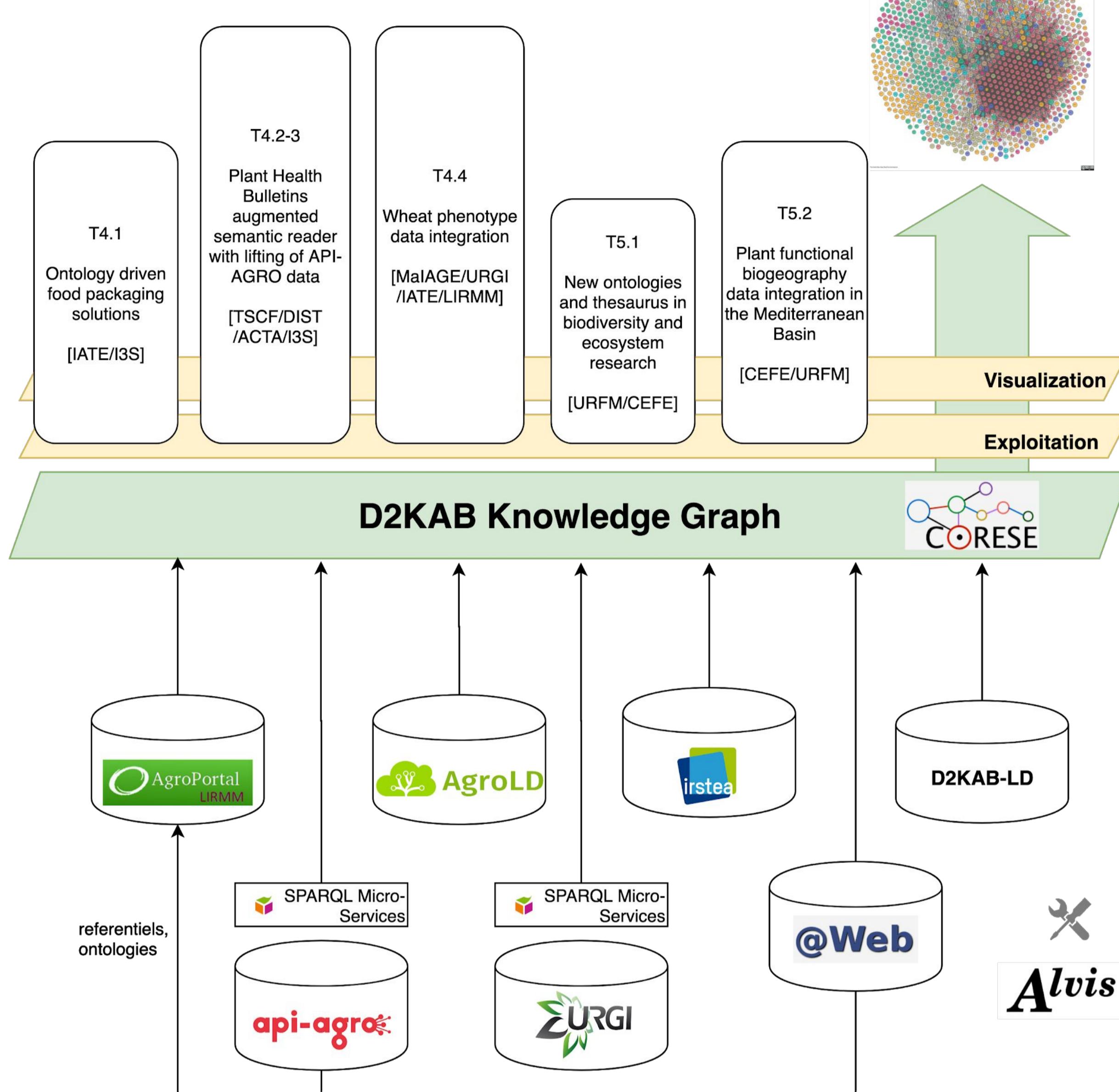
S. Aubin (DIST, INRA), A-F. Adam-Blondon (URGI, INRA), M. Alaux (URGI, INRA), M. Ba (MalAGE, INRA), S. Bernard (TSCF, Irstea), P. Bisquert (IATE, INRA), R. Bossy (MalAGE, INRA), F. Brun (ACTA), P. Buche (IATE, INRA), A. Castelltort (LIRMM, Univ. of Montpellier), O. Corby (I3S, CNRS), J. Cufi (IATE, INRA), R. David (MISTEA, INRA), L. Deléger (MalAGE, INRA), E. Dzalé-Yeumo (DIST INRA), C. Faron Zucker (I3S, CNRS), E. Garnier (CEFE, CNRS), J. Graybeal (BMIR, Stanford Univ.), T-P. Haezebrouck (API-AGRO), P. Larmande (DIADE, IRD), L. Menut (IATE, INRA), F. Michel (I3S, CNRS), M.A. Musen (BMIR, Stanford Univ.), C. Nédellec (MalAGE, INRA), C. Pichot (INRA-URFM), F. Pinet (TSCF, Irstea), C. Pommier (URGI, INRA), C. Roumet (CEFE, CNRS), C. Roussey (TSCF, Irstea), K. Todorov (LIRMM, Univ. of Montpellier), A. Toulet (DIST, CIRAD), C. Jonquet (LIRMM, Univ. of Montpellier)

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.

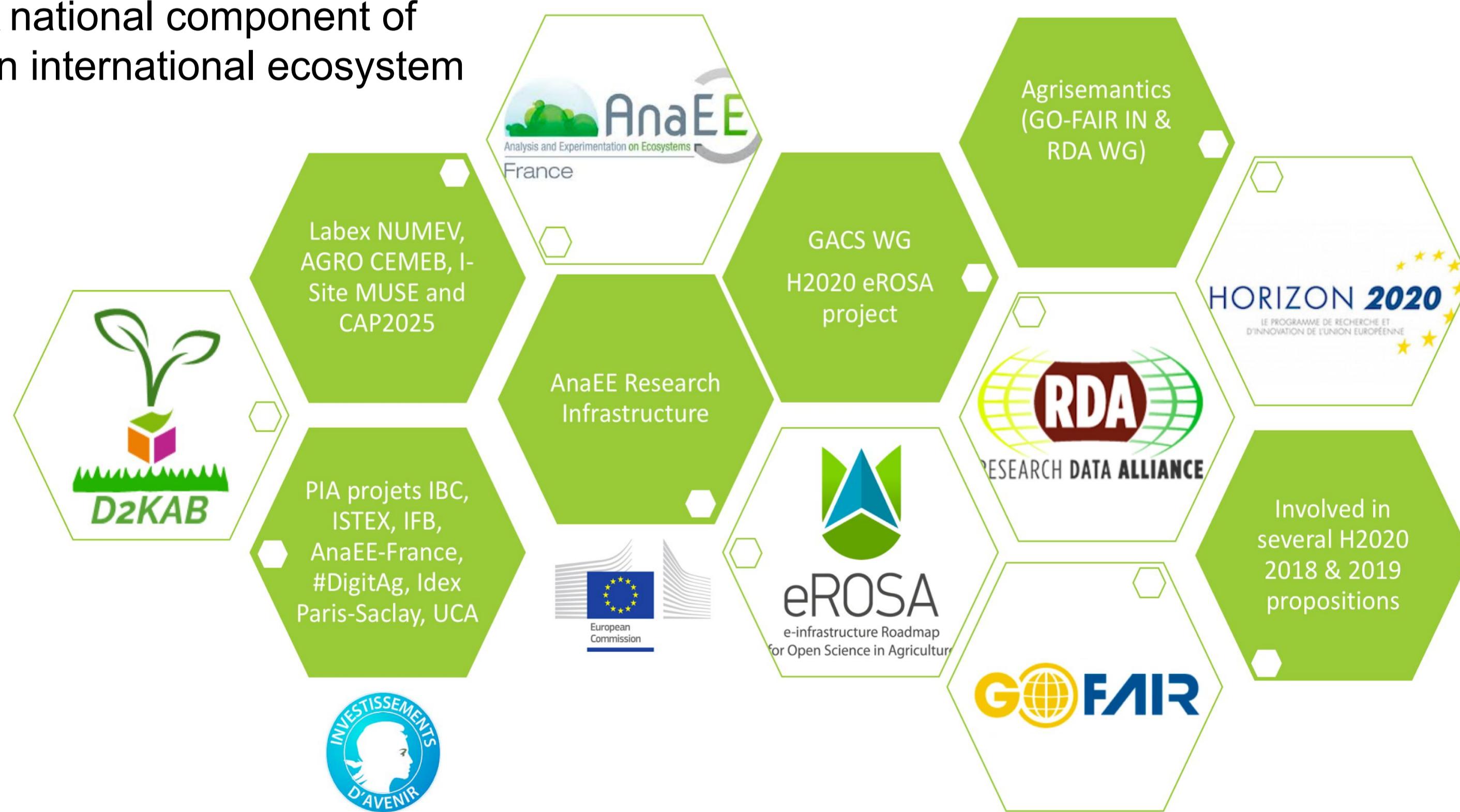


The D2KAB project aims to create a framework to turn agronomy and biodiversity data into knowledge – semantically described, interoperable, actionable, open – and investigate the scientific methods and tools to exploit this knowledge for applications in agriculture and biodiversity sciences.

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



1. Develop state-of-the-art methods and technologies for ontology lifecycle and alignment (AgroPortal project).
2. Build the ag & biodiv Linked Open Data cloud.
3. Enable new semantically driven ag & biodiv science.

Five driving scenarios with expected significant impact and concrete outcomes for scientific communities and socio-economic stakeholders.

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

d2kab-contact@lirmm.fr
 AgroHackathon on Meetup
 @d2kab Twitter
 d2kab on GitHub

