

DATA4C+

Interoperability of databases on soil carbon

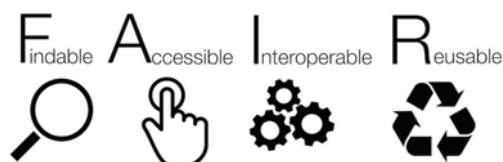
Project background

DATA4C+ (2019-2021) is a research project funded by the French Research National Agency (ANR), coordinated by Cirad and implemented by the consortium Cirad-INRA-IRD.

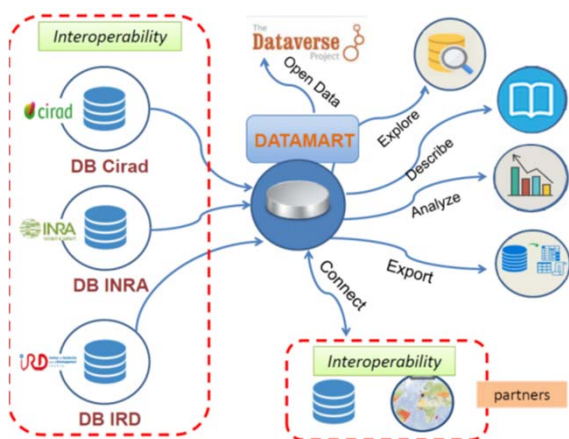
DATA4C+ aims meeting the growing need to assess the impact of agricultural practices on soil carbon. Stakes are high to reference data and meta-data in databases to have a global view. We are convinced that interoperability between databases and open-science movement (FAIR) are part of the solution.

Objectives of DATA4C+

1. Define good practices to describe the content of the data bases and fill them in homogeneously
2. Identify the technical and legal bottlenecks to interoperability between data bases and design solutions
3. Experiment the solutions for data in a French overseas area
4. Share on the project at international level



FAIR principles © www.panosc.eu



General principles of DATA4C+ architecture © cirad

Key challenges to be tackled

- Which variables are necessary to assess soil carbon stocks and influence of practices on soil carbon ?
- Choose common definition of the variables and define rules to fill them in
- How to make current data bases at Cirad, INRA and IRD technically and legally communicate ?
- Implement the solutions for real !

Contact

Cirad
France
www.cirad.fr
Dr Julien Demenois (julien.demenois@cirad.fr)

Download the poster here

