

Project background

There are huge needs and challenges in analyzing existing data on soil carbon sequestration to address the objectives of the 4 per 1000 Initiative. To tackle these challenges, the database DATA4C is currently under development with data from Cirad with a two-fold objective: centralizing existing data from Cirad on soil organic carbon (SOC) and gathering future data. Our ambition is to foster the analysis of SOC and global environment data and contribute to create a long-term database on soil carbon sequestration.



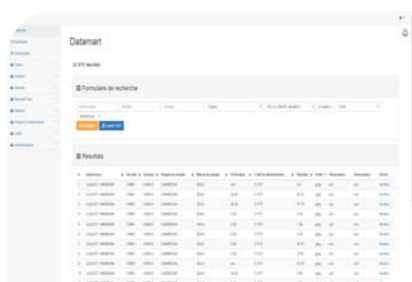
- Our technology
- Everything is open-source !

We use open-source technologies to develop the database DATA4C and a web portal for researchers to explore, analyze and extract data easily.



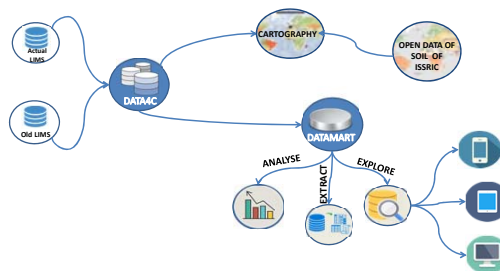
- Potential and possibilities of DATA4C
- More accessible and easy to handle the growth of database

We apply data warehouse – data mart technology to control the performance of database even with a large dimension.



Datamart : specific technology makes data more accessible

- Exploring the database more rapidly
- We create the cartography and the statistical analysis to help researchers analyzing the data as quickly as possible.



Graph : Chain of data transfer



Cartography : Visualization of soil carbon data by geographical location

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