

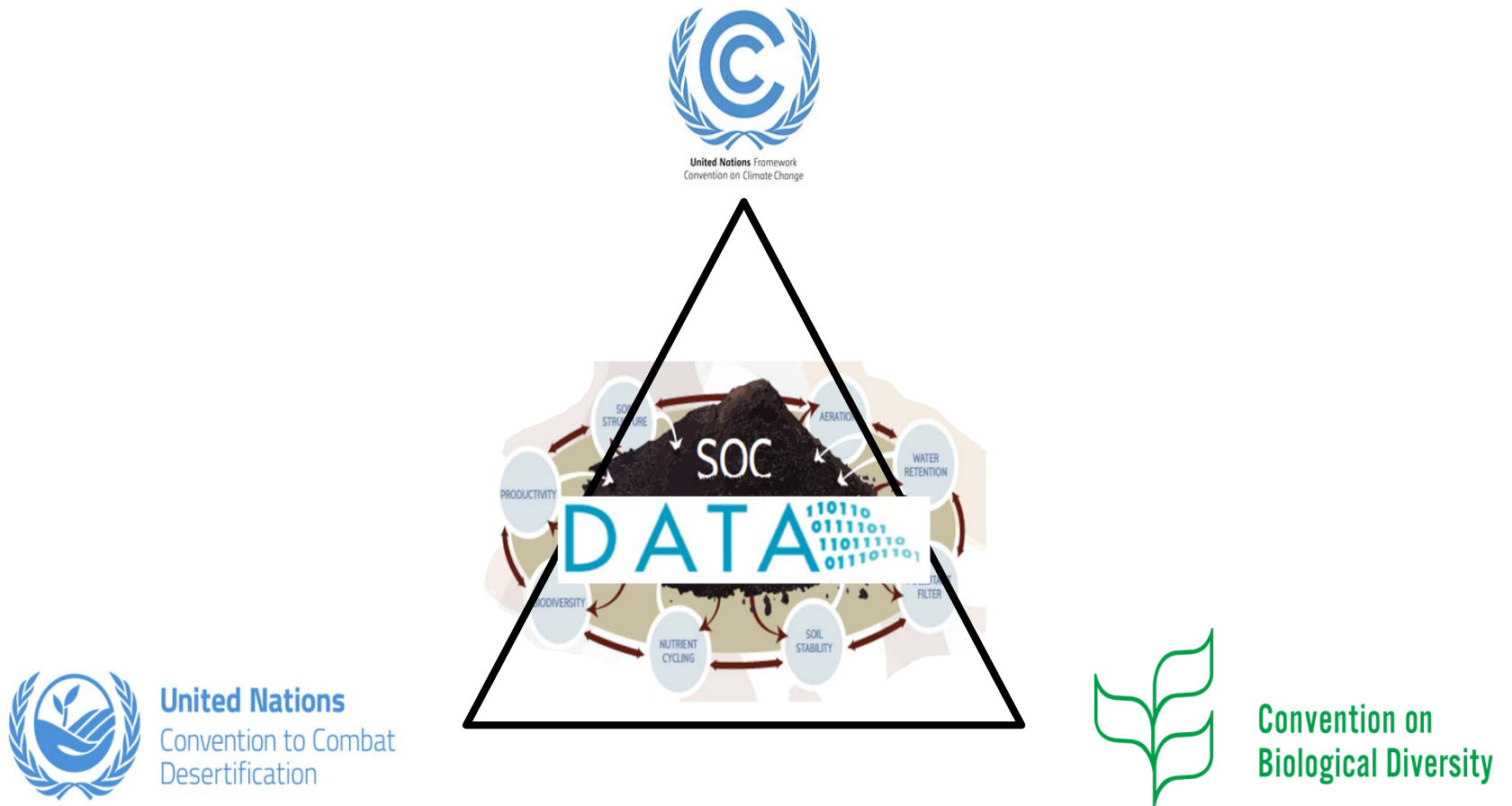


DATA4C+ project Interoperability of databases on soil

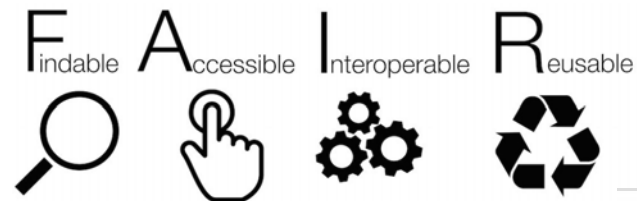
Dr Julien Demenois (Cirad)



■ Multiple co-benefits of SOC



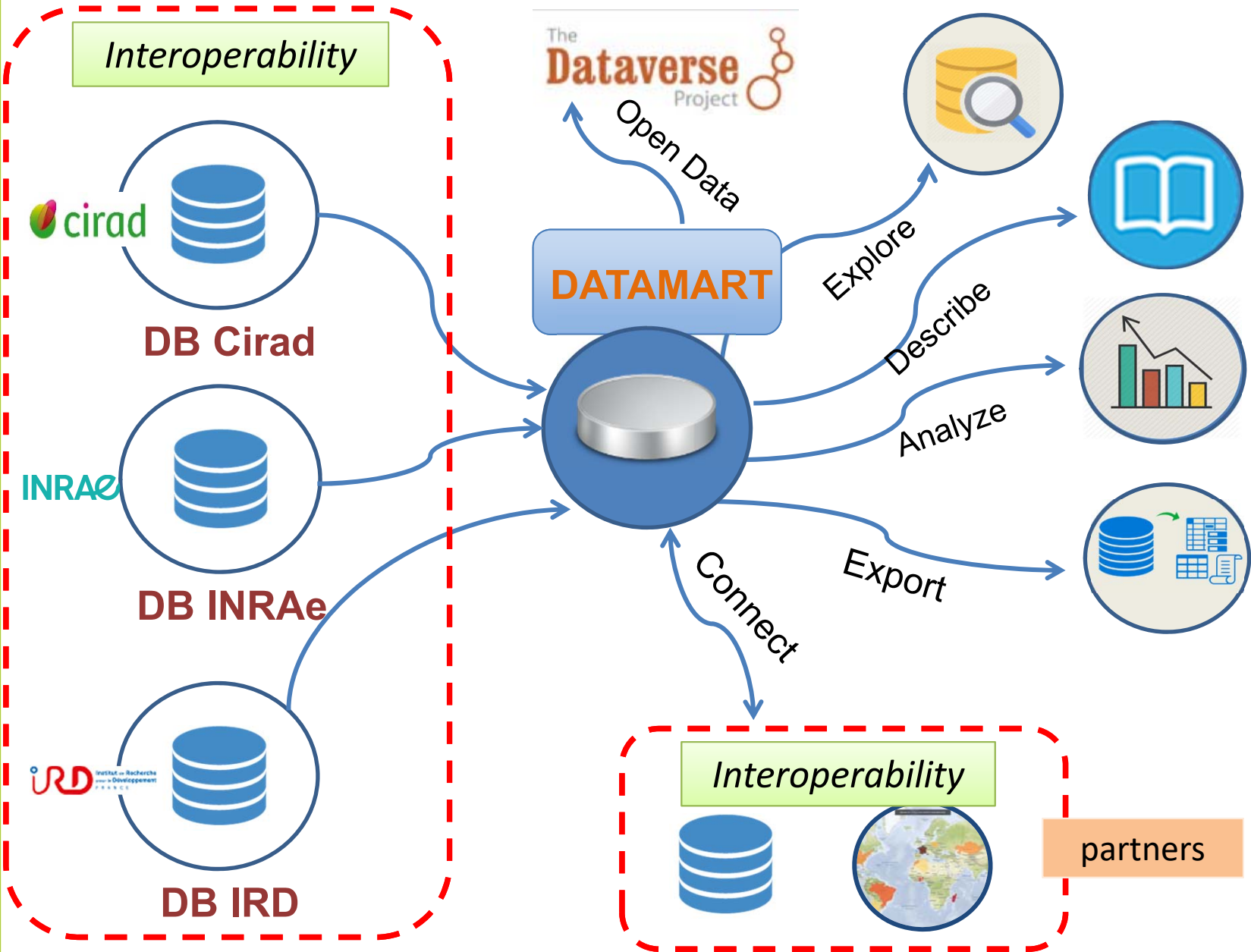
- A growing need to assess the impact of agricultural practices on soil carbon
- High stake to reference data and meta-data in databases to have a global view
- **... but heterogeneity of data**



The
Dataverse
Project 

Objectives of DATA4C+ project

- Define good practices to describe and fill homogeneously soil databases from Cirad, INRAe and IRD
- Identify the technical and legal bottlenecks to interoperability between our databases and design solutions



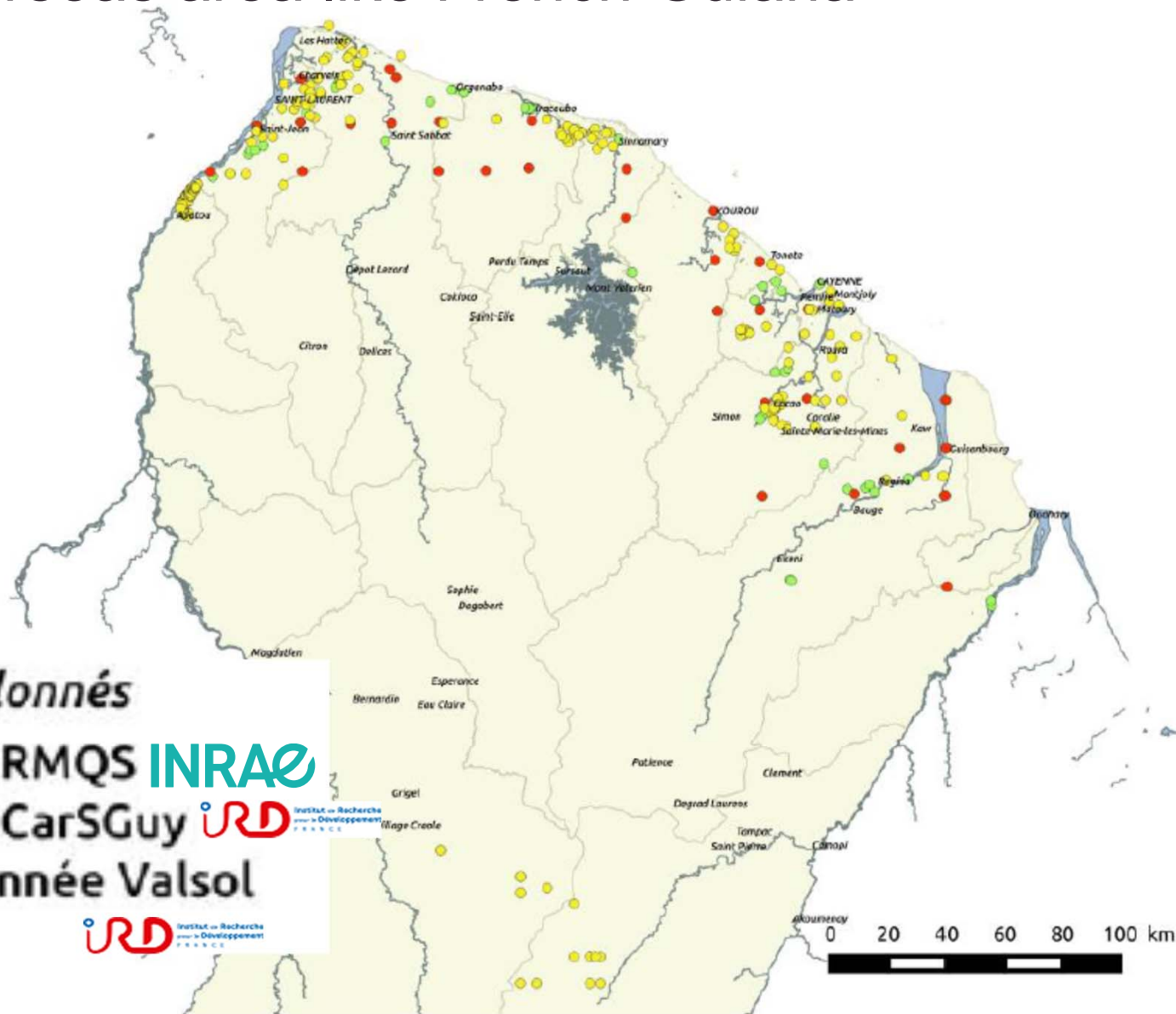
Technical issues

- Describe our databases (format, variables, types of variables)
- Select variables to assess soil carbon stocks, influence of practices on carbon stocks
- Choose common definition of the variables (e.g. ISO, AnaEE)
- Define common rules to fill in variables

Legal issues

- Describe the terms and conditions for re-using current data
- Design solutions in compliance with GDPR and FAIR principles

■ Proof of concept implemented in a French overseas area like French Guiana

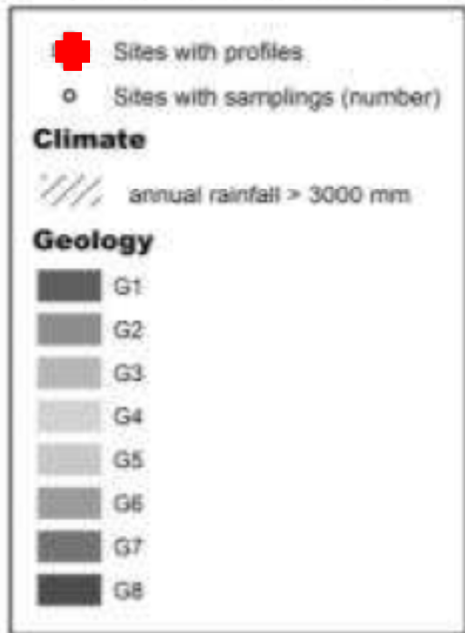
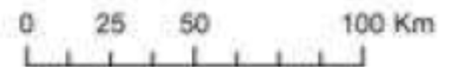
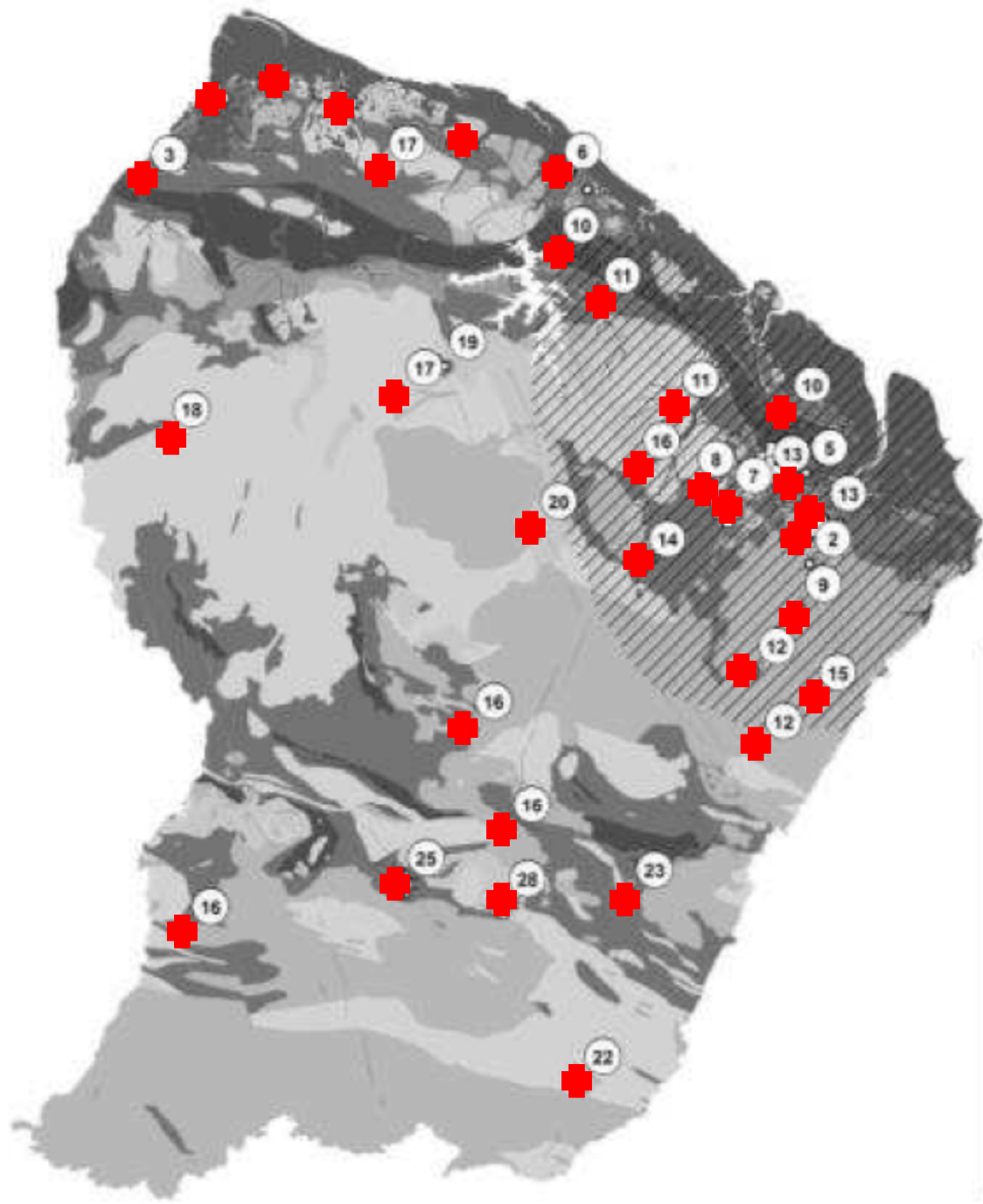


Léaende

Points échantillonnés

- Campagne RMQS INRAE
- Campagne CarSGuy IRD Institut de Recherche en Développement
- Base de donnée Valsol





Connections with soil networks

- CaSA network in Africa : www.reseau-carbone-sol-afrique.org
- Research Data Alliance : <https://rd-alliance.org/>
- Working group ISO on soil data

Planning of DATA4C+

- Kick off at the end of 2019
- Technical workshop in early March 2020
- First results to be presented at Eurosoil 2020 in August 2020
- 2 years project coordinated by Cirad and funded by ANR



Thank you for your attention !

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