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An overview of the Consortium GLADSOILMAP supported by the LE STUDIUM Loire Valley Institute for advanced research studies (France)

Dominique Arrouays, Anne C Richer-De-Forges, Budiman Minasny, Laura Poggio, Zamir Libohova, Vera Leatitia Mulder, Pierre Roudier, Manuel P Martin, Philippe Lagacherie, Guillaume Martelet, et al.

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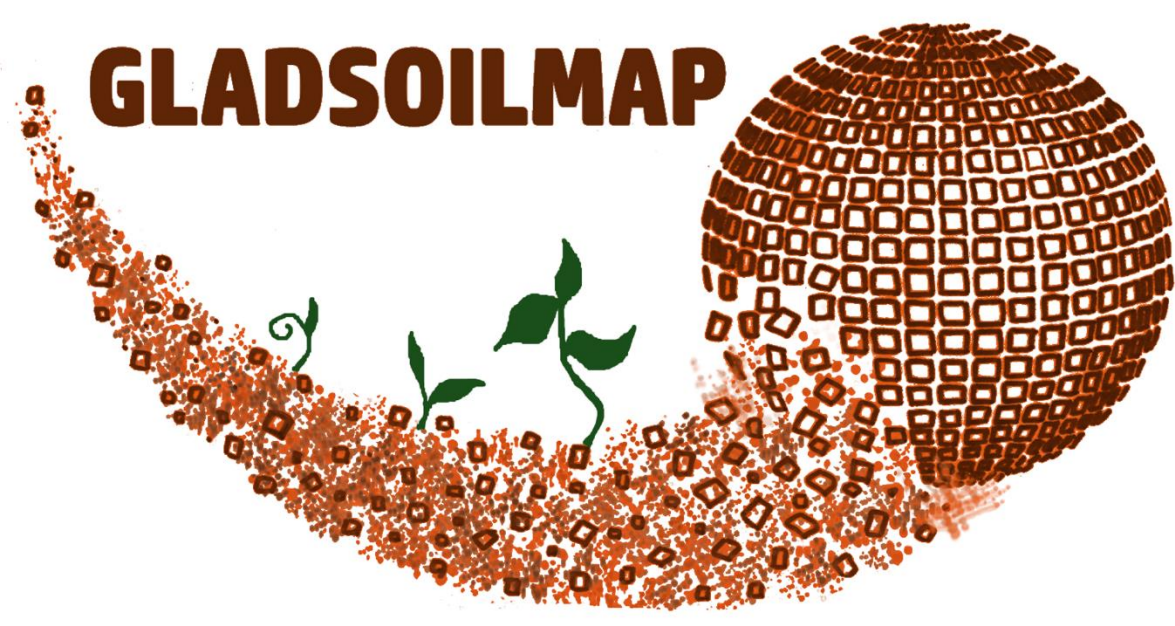
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An overview of the Consortium GLADSOILMAP supported by the LE STUDIUM Loire Valley Institute for advanced research studies (France).

LE STUDIUM
Loire Valley
Institute for Advanced Studies

Joining efforts between sub-national, national, continental and global scale digital soil mapping of soils, soil properties and soil functions



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5. USDA-Agriculture Research Service, USA
6. Soil Geography and Landscape Group, Wageningen University, P.O. box 47 6700 AA, Wageningen, The Netherlands
7. Manaaki Whenua -- Landcare Research, Private Bag 11052, Manawatu Mail Centre, Palmerston North 4442, New Zealand
8. UMR LISAH, INRAE, Institut Agro, IRD, F-34000 Montpellier, France
9. Bureau de Recherches Géologiques et Minières, BP 36009, Orléans cedex 2, France

What is GLADSOILMAP?

Effective soil management requires high-resolution data on their properties. Digital Soil Mapping (DSM) is one of the major approaches for generating soil property maps over large areas at fine spatial resolution. Two projects, **GlobalSoilMap** and **SoilGrids**, aim at delivering the first global high-resolution soil property maps, the first one by a bottom-up approach (from country to globe), the latter by a top-down approach (global). Through regular meetings organized in Orléans (France), the GLADSOILMAP consortium brings together scientific leaders involved in both projects. The consortium aims at transferring methods to achieve convergence between top-down and bottom-up approaches, and to generate methods for delivering maps of soil properties. One main objective of this project is to develop methodologies to improve the accuracy of soil property forecasts and reduce their uncertainties.

The GLOBAI Digital SOIL MAP (GLADSOILMAP) consortium is funded by LE STUDIUM Loire Valley Institute (France) for Advanced Studies through its LE STUDIUM Research Consortium Program. LE STUDIUM CONSORTIUM supports the creation of a team of researchers to exchange and develop new perspectives and organize one-week seminar every 6 months for two years (4 meetings in total) in the Centre-Val de Loire region, France. Travels, accommodation and meals are covered by the award. LE STUDIUM also organizes the present conference.

It aims at developing and transferring information and methods from the scientific community to (i) producers, i.e. people in charge of soil mapping so that they can improve the prediction accuracy of soil properties and decrease the associated uncertainty and, (ii) end-users, i.e. farmers, natural resource planners, modelers, policy makers, etc., so they can support their assessments and/or decisions at the relevant scales.

The Consortium partners

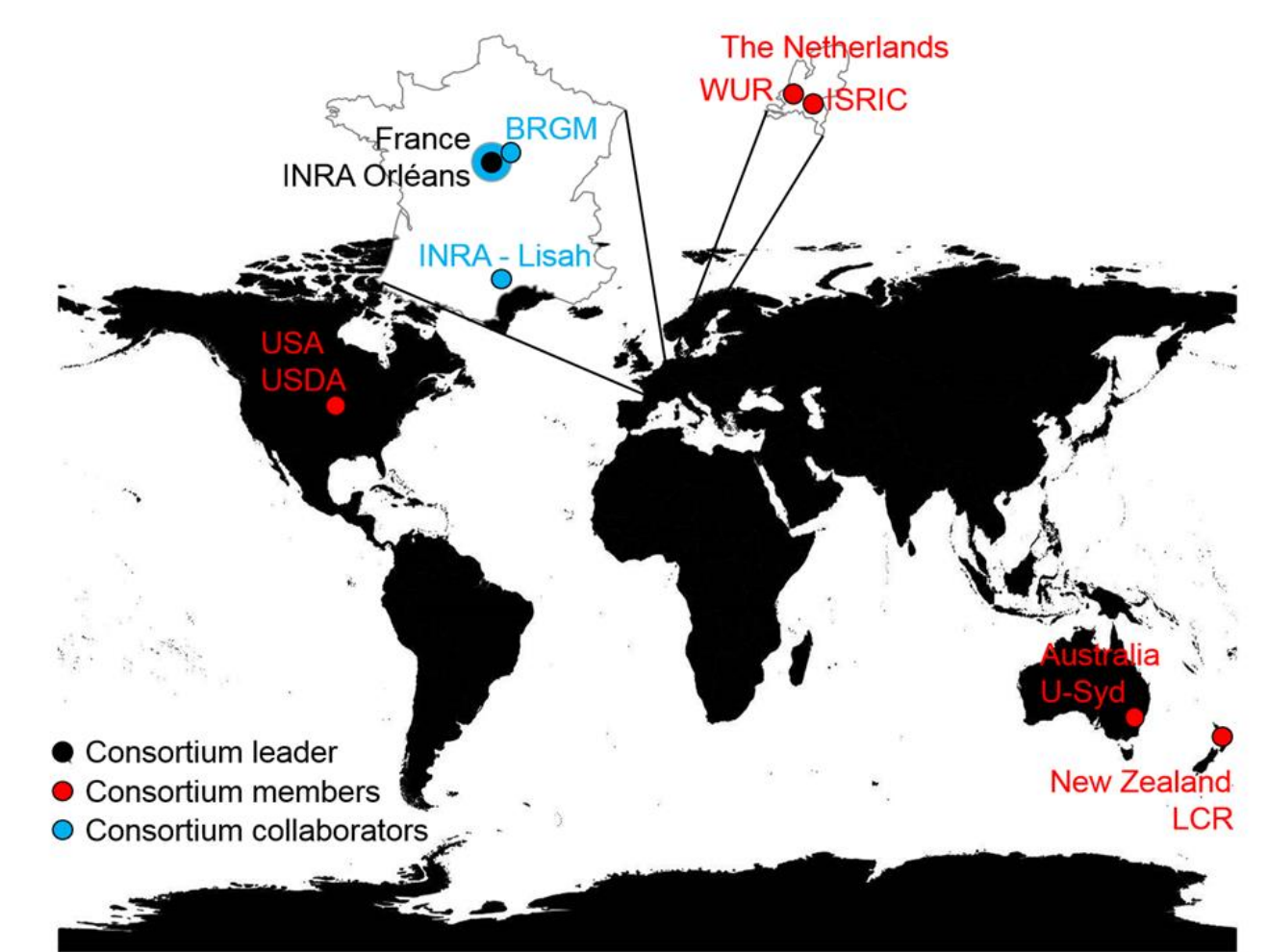
The consortium is led by Dominique Arrouays (INRAE Info&Sols), Orléans, France, and includes 5 main members:

- Budiman Minasny (Univ. of Sydney), Australia
- Pierre Roudier (Manaaki Whenua - Landcare Research), New Zealand
- Laura Poggio (ISRIC-World Soil Information), The Netherlands
- Zamir Libohova (USDA-National Resources Conservation Services) USA
- Vera Leatitia (Titia) Mulder (Wageningen University and Research), The Netherlands

The consortium also includes collaborators from INRAE Info&Sols Orléans (France) (Anne C. Richer-de-Forges, Hocine Bourennane and Manuel P. Martin), from INRAE Montpellier (France) (Philippe Lagacherie) and from the French Geological Survey (BRGM, Orléans, France) (Guillaume Martelet, Pierre Nehlig).

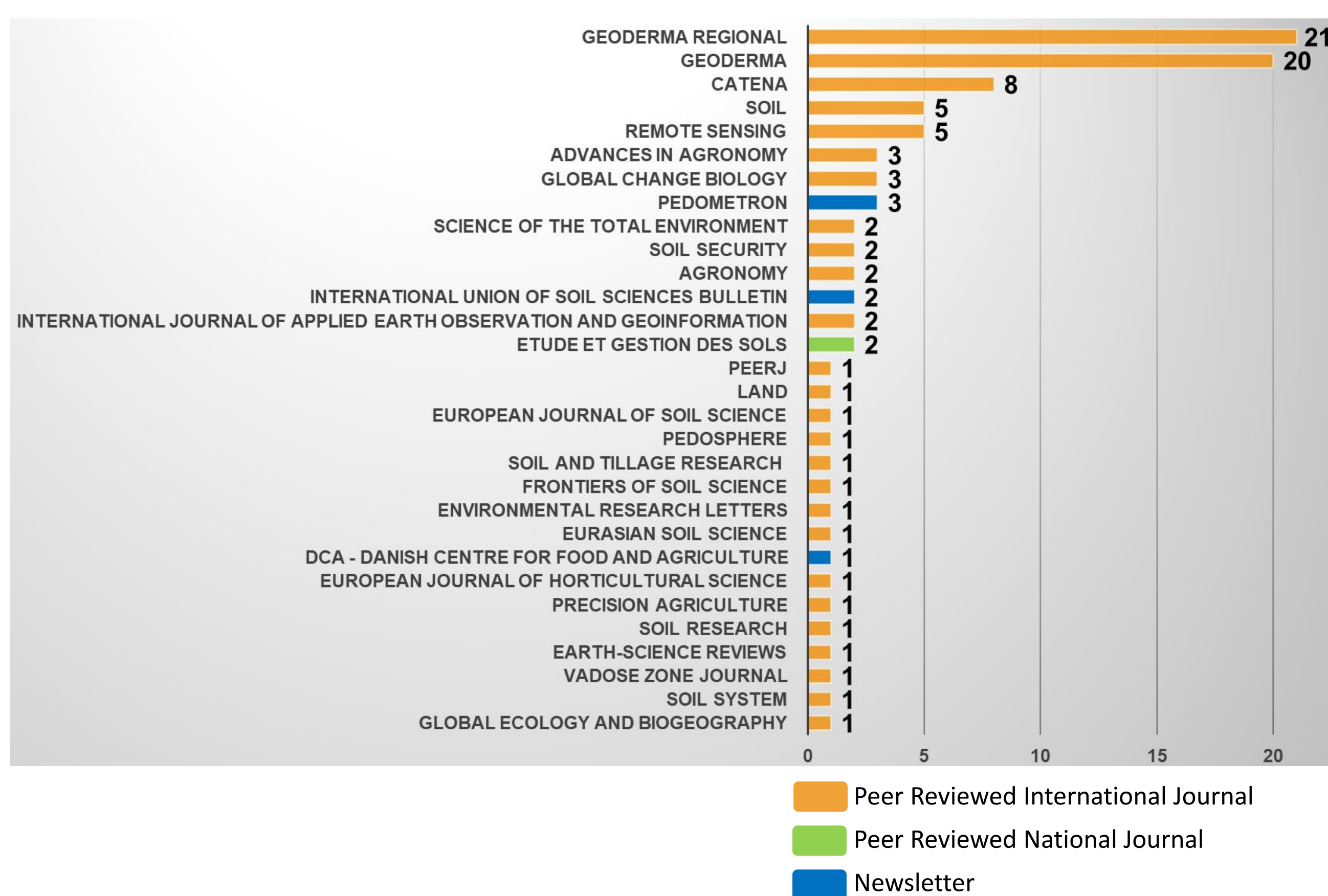


The members: Dominique Arrouays, Laura Poggio, Vera Leatitia (Titia) Mulder, Pierre Roudier, Zamir Libohova, Budiman Minasny



Production from end 2019 to January 2023

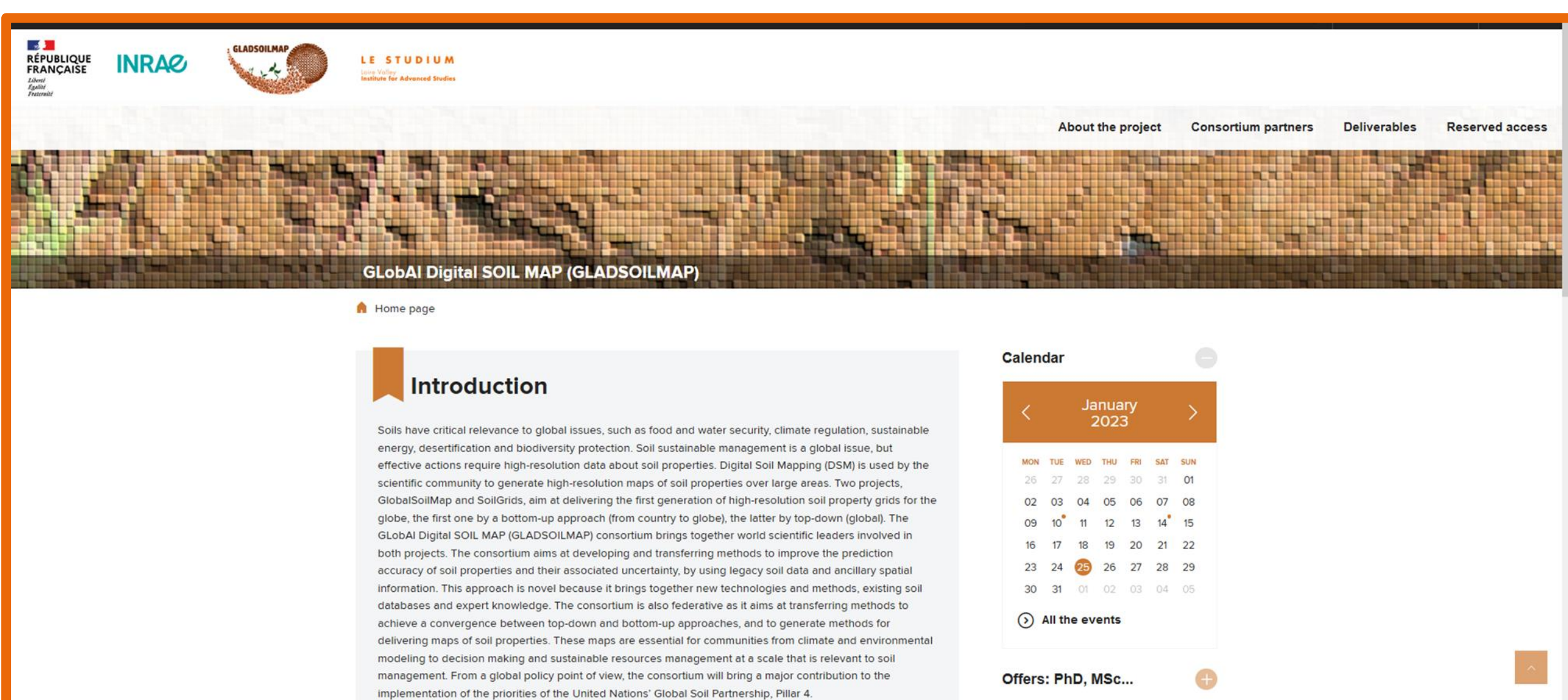
96 papers



Networking :Co-authorship of Consortium articles at the end of 2022



A website:



Conferences at LE STUDIUM:



<https://www6.inrae.fr/gladsoilmap-consortium/>

