

A banner for the Centennial of the International Union of Soil Sciences (IUSS). The background is a cross-section of soil with roots. A central white box contains the IUSS logo and text: "100 years of SOIL SCIENCE past achievements and future challenges" and "International Union of Soil Sciences". To the left, it says "Centennial of the IUSS". To the right, it says "Florence - Italy May 19 - 21, 2024". Below the box is the website "www.centennialius2024.org". At the bottom, it lists "Reynders Suzanne (INRAE) & Demenois Julien (Cirad)" and "Impact4Soil: the online platform boosting international research collaboration". A small European Union logo and text are at the bottom right of the banner.

Centennial of the IUSS

100 years of SOIL SCIENCE past achievements and future challenges

Florence - Italy
May 19 - 21, 2024

www.centennialius2024.org

Reynders Suzanne (INRAE) & Demenois Julien (Cirad)
Impact4Soil: the online platform boosting international research collaboration

 Impact4Soil was created thanks to the ORCaSa project, funded by the Horizon Europe programme under grant agreement n°101059863.

Suzanne:

Thank you for joining this session about Impact4Soil, an online platform that will boost international research collaboration. Before we start, allow me to introduce Julien Demenois, my co-presenter for today.

For those who don't know him, Julien is a leading figure in soil research and ecological restoration at Cirad. His extensive research focuses on soil carbon sequestration and the intricate relationships between plants, soil, and microorganisms, particularly in tropical regions.

Julien plays a pivotal role in driving initiatives aimed at mitigating climate change impacts, serving as the focal point of

the "4 per 1000 Initiative" at Cirad.

We are privileged to have him share his expertise with us today.

Julien:

Thank you Susanne ! On my turn, I'd like to introduce Suzanne Reynders. Suzanne is a senior Advisor in Soil and Climate Change at INRAE. With a wealth of experience in soil science and climate change mitigation, Suzanne has led numerous projects in France and across Europe in the field of environmental conservation. With her extensive experience and leadership, she has played a pivotal role in driving forward initiatives aimed at preserving and enhancing our natural surroundings. Suzanne's dedication and expertise make her a valuable asset to our presentation today.



Impact4Soil is the result of a collaborative thinking work carried out by the ORCaSa team. Indeed, our objective was not to 'develop yet another platform on soil carbon,' but to build an innovative and must-have tool that would aggregate the knowledge available on such a large topic.

Impact4Soil is a science-based, aggregative and cooperative platform designed to meet the needs of practitioners, farmers and foresters, policymakers, funders and scientists from all over the world. We applied scientific standards to verify, gather and share trustful information.

In short Impact4Soil is here to simplify the research and analysis work of all people working in the field of soil carbon.



21 November 2023 Madrid



**Launched in Madrid
during the EU Soil Mission Week**



ORCaSa officially launched the Soil Carbon International Research Consortium during a plenary session

**373 participants in person
& 600 online**

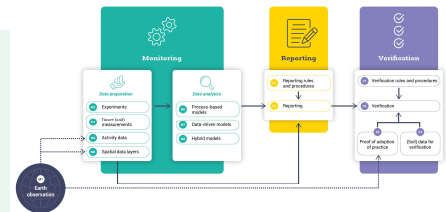
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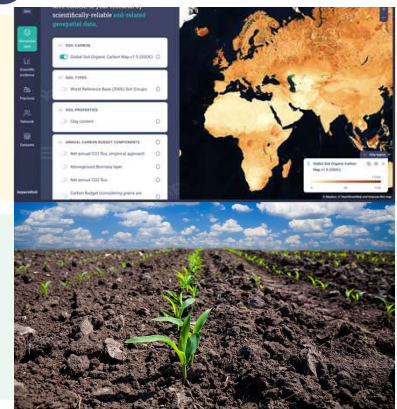
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3 main services in preparation

An internationally harmonized MRV framework to raise awareness and develop scientific knowledge and methods on how to Measure, Report and Verify soil carbon stock changes in various contexts of application (Offsetting, Insetting, NDC's, CAP...)



The Impact4Soil platform to drive cooperation and knowledge sharing on soil carbon at international level. 5 modules: maps (visualization of carbon stock and evolution over time), scientific evidence (from metanalysis), practices (from verified sources), data (from scientific repositories), network of initiatives and stakeholders.



A Research alignment and calls program through an aligned Strategic Research and Innovation Agenda considering all types of land use in each region; and through Knowledge hub and Thematic Annual Programming activities to facilitate international collaboration between projects for the Soil Carbon IRC members.

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Members of the Soil Carbon IRC

• Research



- Scientists working on soil carbon, agriculture, and climate change issues
- Research organizations
- Universities
- National or international initiative or programme
- Living labs

• Funders



- Public funders (National and international R&D agencies including space agencies, Development agencies...)
- Private funders (foundations, banks, Business association (WBCSD or SAI)...))

• Users



- Policymakers on agriculture, food, climate, and environmental issues (national, regional, and international)
- Farmers, landowners, cooperatives and farm advisors, foresters...
- Private sector including start up (Agri-food, forest, retail, ...)
- Environmental agencies and NGOs
- Other

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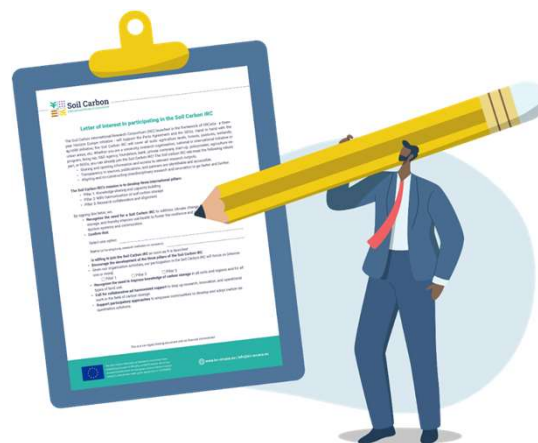
5 REGIONAL NODES



How to join the Soil Carbon IRC

To join the Soil Carbon IRC, **your organisation will have to sign the letter of interest** (*non legally binding document with no financial commitment*) and to appoint a representative.

Organisations wishing to be part of the steering committee will have to make a stronger commitment by contributing either in kind or in cash to the funding of the Soil carbon IRC.



Join now!



<https://irc-orcasa.eu/join-the-soil-carbon-irc/>

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Impact4Soil

A science-based, aggregative and cooperative platform

Our objectives :

- To align research effort at the international level
- To avoid duplication of data
- To put the light on understudied regions or practices
- To give science-based evidence for decision makers to let soil carbon sequestration become a reality.

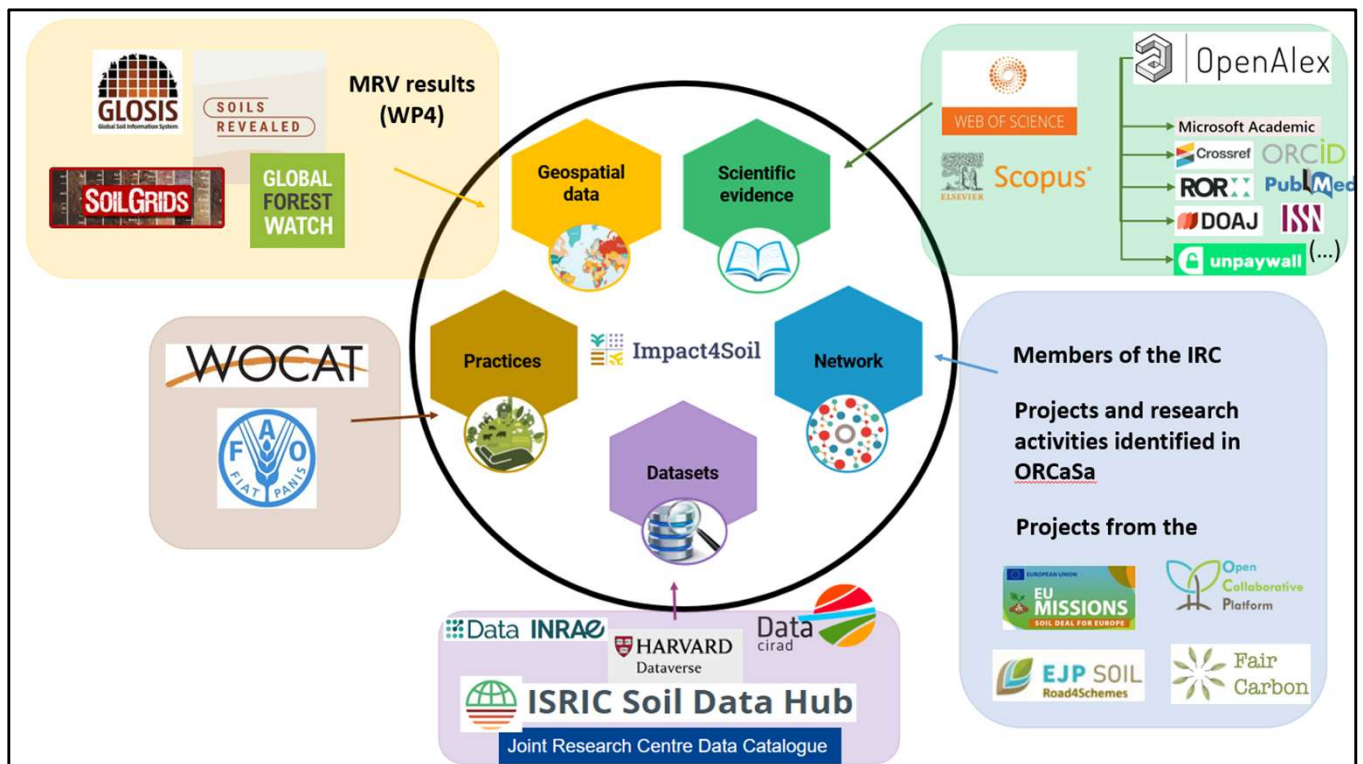


www.impact4soil.com

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To kick off the ORCaSa project, we surveyed a panel of over 200 users. The objective was to understand their needs and simultaneously analyzed various existing data tools to think about the best way to interconnect these tools in one platform.

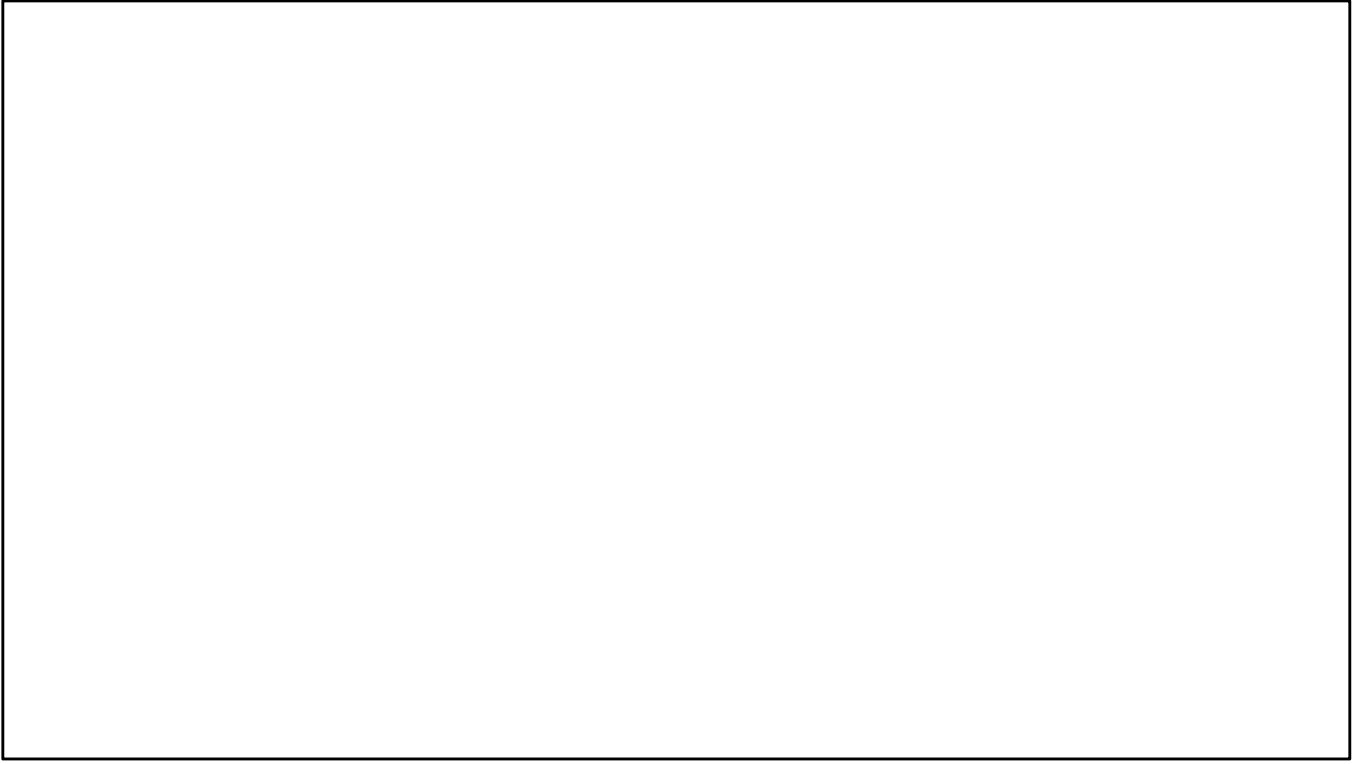
Following this study and a series of user workshops that we conducted, we have built the following services for users:

- Accessing geographical information to increase transparency on historical, current and future trends of soil carbon stocks at different spatial scales,
- Accessing aggregated and up-to-date scientific data to make decisions,
- Accessing and contributing to aggregated and up-to-date scientific data on the impact of practices on soil carbon,
- Accessing to consolidated, quality-assessed and reusable data,
- Sharing and discover practices and soil carbon management experiments,
- Having an up-to-date view of ongoing efforts to manage current soil carbon stocks,
- Developing their networks.

Most of these services are based on data sourced from reliable sources.

I invite you now to discover the

Impact4Soil platform ...



Feedback on the platform



Impact4Soil is a fantastic resource for the global science community. As someone involved in the Soil Organic Matter network in the 90s, I'm thrilled by its functionalities. It offers remarkable geospatial data layers and grants access to 13,000+ publications on SOC impact, practical examples, land management practices, networks, and related datasets. It's a one-stop-shop for SOC-related information.

Pete Smith

Professor of Soils & Global Change,
University of Aberdeen (Scotland)



Impact4Soil fills a much-needed all-in-one source of credible information and data on SOC from global sources. It is a significant contribution to enhancing the transparency of soil-related information and offers excellent opportunities for synthesizing relevant information, whether for scientific research and collaboration, policy support, evaluation, or the wider IRC community.

Beata Eموke Madari

Research & Development
Scientist, Embrapa (Brazil)



Thanks to Impact4Soil I will be able to quickly identify relevant scientific publications on soil carbon, and even better, I will have a quantified assessment of the impact of practices on soil carbon. This last point is very important for me, as part of a research organisation, because we are often asked to provide this information by decision-makers and journalists. Knowing that there is a reliable source of scientific information is therefore extremely valuable.

Julien Demenois

Senior researcher, Cirad (France)

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Thank you for your attention!

www.impact4soil.com | impact4soil@groupes.renater.fr



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Suzanne:

Thank you Julien and thank you all for your attention. We hope that Impact4Soil has sparked your interest and that you will connect to experience it!

We remain at your disposal for any questions regarding Impact4Soil.