

GLOBAL SOIL PARTNERSHIP 10th Plenary Assembly

Report on normative tools and global actions on sustainable soil management

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 $rac{23 ext{-}25}{ ext{May }2022}$



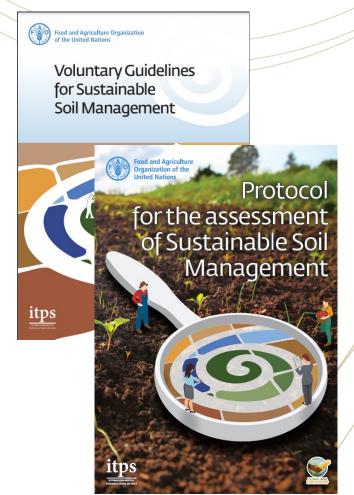


Normative tools and global actions on sustainable soil management

- Voluntary Guidelines for Sustainable Soil Management and SSM protocol
- Soilex and soil governance
- International Code of Conduct for the Sustainable Use and Management of Fertilizers
- RECSOIL initiative
- Global Soil Doctors Programme







Voluntary Guidelines for Sustainable Soil Management and SSM protocol





VGSSM and SSM protocol



Implementation manual

- Description of the study area and background information
- Data collection, sampling strategy and measurement of indicators
- Interpretation and evaluation of compliance with the VGSSM

Validation process

- Pilots in 8 countries in LAC: different land use types, practices, soil health
- Surveys on SSM practices
- Regional SSM practices database
- Model of soil respiration: spatial-temporal and datadriven

Way forward

- ⇒ Scaling up the survey to other regions
- ⇒ Development of a global database of SSM practices





Soil governance and SoiLEX





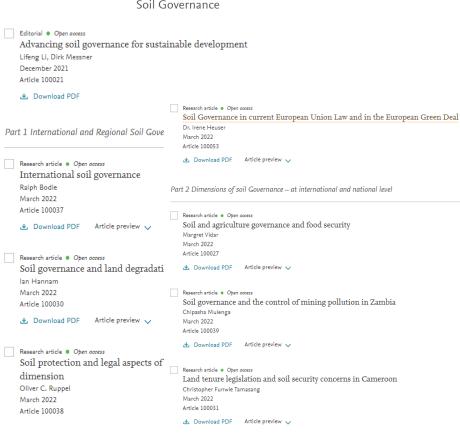


Advancing soil governance: SoiLEX





Soil Governance



Soil governance: The case of implementation and enforcement

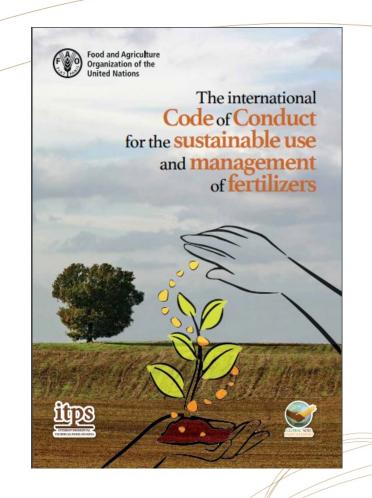
- ✓ The Soil Legislation Working Group participated in a special issue on soil governance in Soil Security journal.
 - 18 papers published
 - multiple topics relevant to soil governance
- A comparative analysis on soil legislation at global, regional, and national level ongoing
- ✓ A Model Soil Law under development to support countries develop comprehensive soil regulations

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International Code of Conduct for the Sustainable Use and Management of Fertilizers







Fertilizer Code



Launched in December 2021 in six languages.

To define priority areas for The Fertilizer Code implementation, gaps and main obstacles to sustainable fertilizer management in the participant countries.

Video: Launched in December 2021 in six languages.

Present the three main issues related to fertilizer use and management across world, together with the consequences and possible solutions





GSOIL4N

Address and support several aspects associated with the Fertilizer Code (best use, needs, quality)



DISSEMINATION





Fertilizer Code



International projects in Asia and Africa with funds from China and Germany



SSM

POLICIES



Harmonizing 8 methodologies to assess the qualities of fertilizers and to strengthen capacities on fertilizer use. Building databases to concentrate information on fertilizers imports and exports



Global Soil Nutrients Map

First phase in 2022: mapping soil nutrients inputs, NPK and micronutrients.

Second phase in 2023: soil nutrient outputs including crop requirements, leaching, gas fluxes and erosion.



Methane Pledge, SoilCare, Harvest Plus, Nitrogen Report

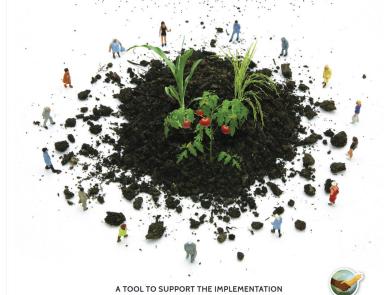
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RECARBONIZATION OF GLOBAL SOILS



RECSOIL initiative





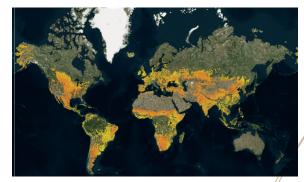
RECSOIL toolkit

Technical feasibility

Country-driven global data products

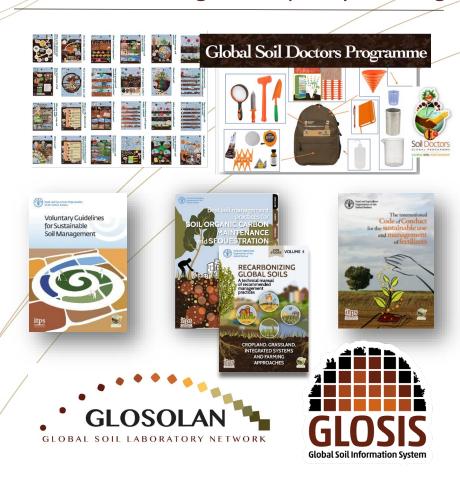


GSOCmap



GSOCseq

Technical Training and Capacity Building



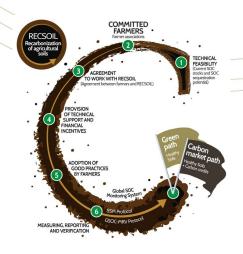
MRV Protocols





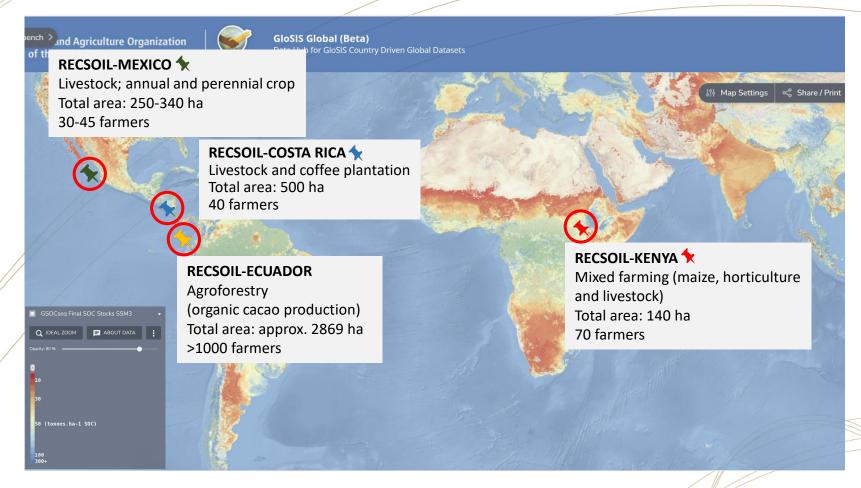


RECSOIL: recarbonization of global soils



RECSOIL is a mechanism for scaling up sustainable soil management implementation to **recarbonize** global soils

Green path focuses on enhancing soil health and the provision of ecosystem services



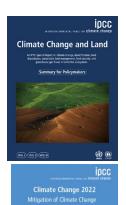




No regret option, as many benefits with one small investiment!

"Soil organic carbon represents 25% of the full potential of natural climate solutions, equally divided between protecting existing carbon stocks and restoring depleted ones. Improving soil health comprises 9% of the mitigation potential of forests, 72% of wetlands, and 47% of agriculture and grasslands

"UNCCD | Global Land Outlook 2 | 2022



"Soil organic carbon sequestration (SOC) one of the most costeffective options climate change adaptation and mitigation strategies" //(USD 45-100 tCO_2eq^{-1} IPCC Special Report 2019 and IPCC AR6 WG III. 2022



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Global Soil Doctors Programme

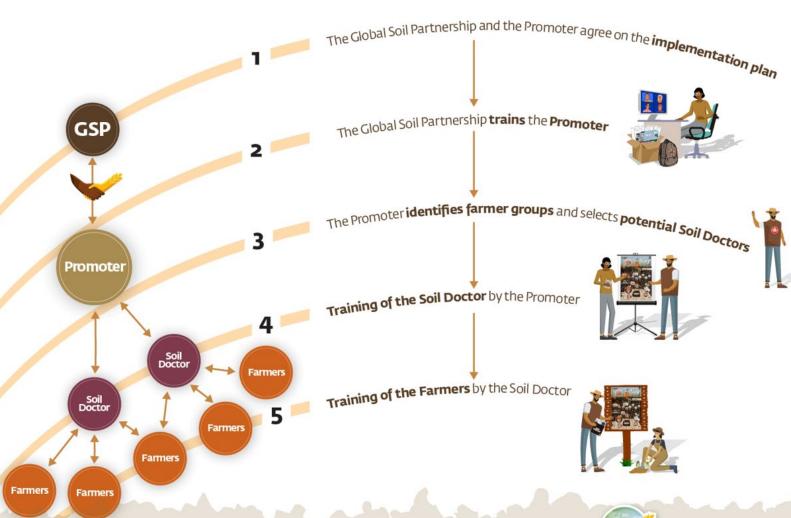






Global Soil Doctors Programme

- Farmer-to-farmer training programme which aims to build the capacity of farmers on sustainable soil management practices
- The new roadmap gives more visibility to the role of the promoter
- The promoting institution agrees on the Terms of Reference and registers in our database to strengthen our collaboration in the longterm.











Training modules

Торіс	Specific soil topic (e.g., general soil properties, nutrients, salinity)
Posters	4 posters to be chosen among those available What is soil? What is soil organic matter content?
Field exercises	3- 4 field exercises related to the topic including physical, chemical and biological observations Soil educational toolkit Soil pH kit donated by the government of Thailand government of Thailand Soil physical So
Evaluation	Final evaluation of soil condition and recommendations CLOBAL SOIL PARTNERSHIP 104 CLOBAL SOIL PARTNE



Pilot projects of the GSDP

Malawi

Mexico

Bangladesh



Kazakhstan















And many more to come
 Bolivia, Colombia, The Gambia, The Philippines





Actions for the Plenary

- Acknowledge and further support the advances in implementing normative tools.
- Adopt the **VGSSM** and the **Fertilizer Code** and report the outcomes to the GSP Secretariat.
- Foster participation of a wide audience on the main issues related to fertilizer use and management across the world.
- Financially support the implementation of prioritized activities focused on the scale-down of the Fertilizer Code through national and regional efforts, the synergies among GSP and other initiatives, and the actions derived from the survey.
- Encourage the development of a model law to protect and restore soil health.





Actions for the Plenary

- Raise a political debate within each government about the need to adopt national legislation on protection and sustainable soil management.
- Recognize RECSOIL's potential to implement SSM practices and promote soil health, while compensating farmers for their commitment.
- Financially support the scaling up of RECSOIL in other countries and regions.
- Welcome the implementation of the Global Soil Doctors Program.
- Financially support the broader adoption of the GSDP in other countries and regions.





Model Soil Act

Why a national Soil Act is needed?

- The model is proposed as a **general framework** from which different stakeholders can draw inspiration.
- It is not a regulation ready to be introduced into any legal system.
- It refers to **soil degradation** in the broadest sense. Soil threats that may affect the soil of individual states and/or regions and the locally adapted prevention and management measures should be included.
- It addresses soil degradation **prevention** and **restoration** and soil health **monitoring**.





Fundamental aspects of the Model Act

Soil regulation must be "chronologically comprehensive", considering the current state of the soil, past and current human pressures and possible future challenges.

Awareness-raising should be a complement to the enforcement of soil legislation. Engaging civil society and making them understand the fundamental role of soil is as important as the legal protection of soil itself.

Identify and involve all stakeholders, often with different and conflicting views and interests, in the development of national soil legislation.



