



Food and Agriculture
Organization of the
United Nations

GLOBAL SOIL PARTNERSHIP

12th Plenary Assembly

03-05 June 2024

NORMATIVE TOOLS AND GLOBAL ACTIONS ON SUSTAINABLE SOIL MANAGEMENT

Carolina Olivera, GSP Secretariat

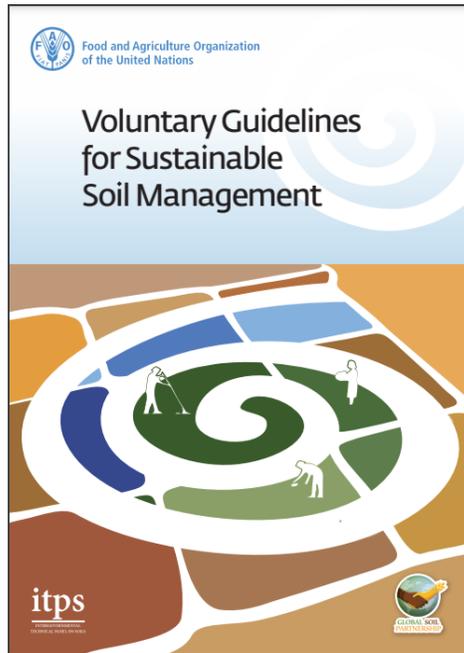




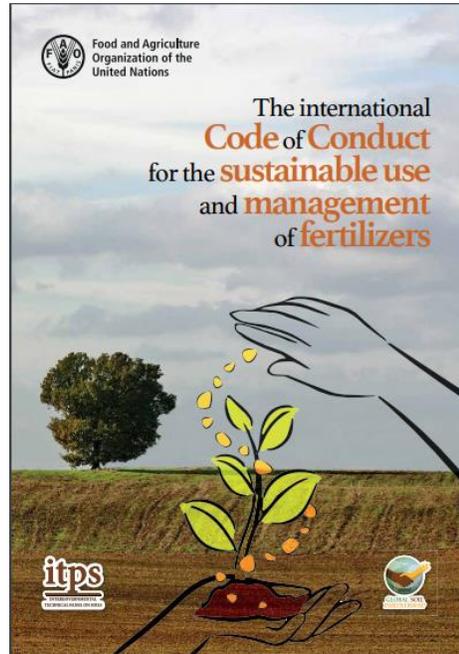
Endorsed: 145th session
of the FAO Council,
December 2012,

Background

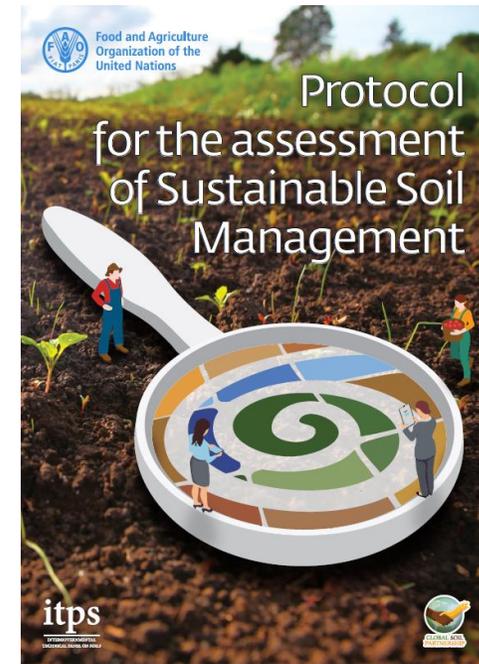
Endorsed: 155th Session
of the FAO Council,
December 2016

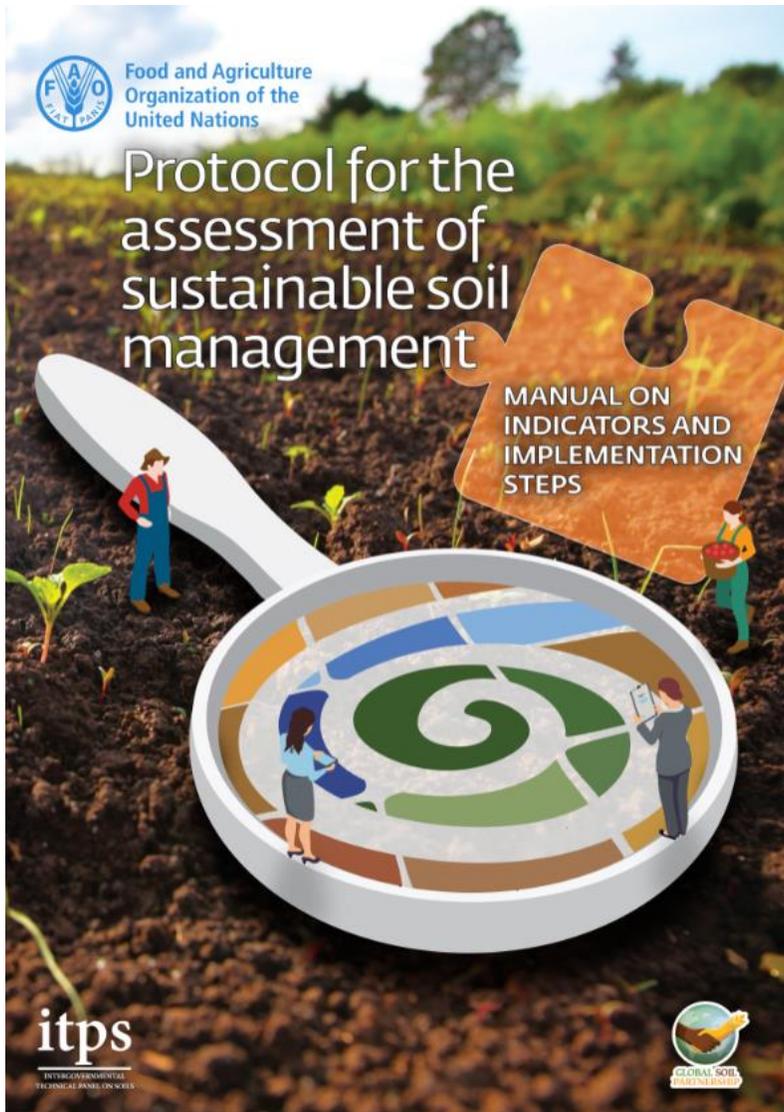


Endorsed: 41st Session of
the FAO Conference, June
2019



Endorsed 8th GSP Plenary
Assembly ad hoc session,
September 2020





SSM protocol

- Launch planned in June 2024
- Sustainable soil management indicators
- Implementation steps: sampling, laboratory analysis and interpretation.
- Template formats and standard operating procedures

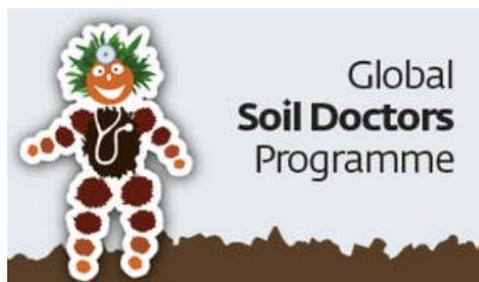
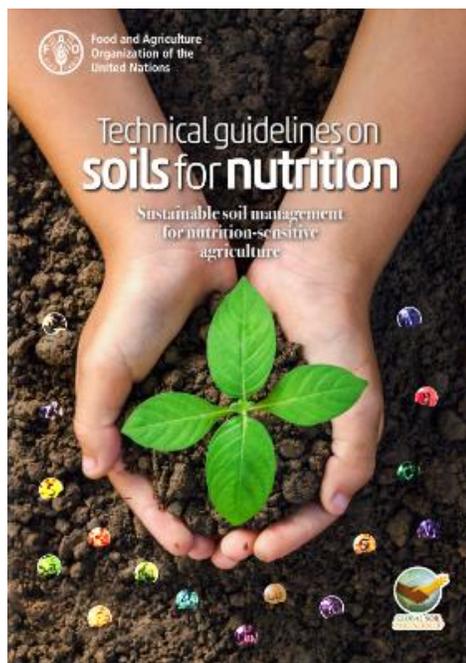
Thanks to the financial support of



Soils4Nutrition



Restoring soil health and productivity for safe, nutritious, and resilient agri-food systems (Soils4Nutrition phase II)



BURKINA FASO



COLOMBIA



MEXICO



1. Training Soil Doctors
2. Measuring the impact on pilot farms
3. Disseminating Soils4Nutrition for sustainable agrifood systems

Technical recommendations

Capacity Development on Sustainable Fertility Management in Uganda and Rwanda



Purchase soil laboratory equipment



Soil samples collection and analysis



Fertilizer quality assessment



Field experiments and demonstrations of fertilizer use

Soil Information and Data

Pillar 4—Soil information & data: Capacity development program in numbers

- 570+ Participants
- 120+ Countries
- 35+ Sessions

EduSoils | e-learning soil educational

Courses on

- Digital Soil Mapping and Modelling
- Soil Testing and Formula Fertilizer Recommendation



Training session on Soil Testing and Fertilizer Recommendations



SOILFER: Soil mapping for resilient agri-food systems in Central America and sub-Saharan Africa



- FAO and several other institutions in Guatemala, Honduras and Zambia are working together to promote and restore the health and fertility of agricultural soils, and to support farmers in coping with the fertilizer crisis and the onslaught of global climate change.
- Expand the project's reach to include Ghana and Kenya.
- New SoilFER - Vision for Adapted Crops and Soils (VACS) project in Mozambique and Tunisia.



Soil governance and SoiLEX



- 1 890 soil-related legal instruments from 174 countries, including laws recently adopted
- Second special issue on the ELSEVIER's Soil Security journal published as open access and includes 12 chapters that showcase different approaches to soil governance
- Two documents under development : (i) comparative analysis of regional and national regulatory frameworks on the protection and sustainable management of soils, (ii) a legal guide on sustainable soil management

RECISOIL
webpage

RECISOIL: Recarbonization of Global Agricultural Soils

There is a collective call from all corners of the world to decarbonize the economy. Our response is to recarbonize global agricultural soils!



What is RECISOIL?

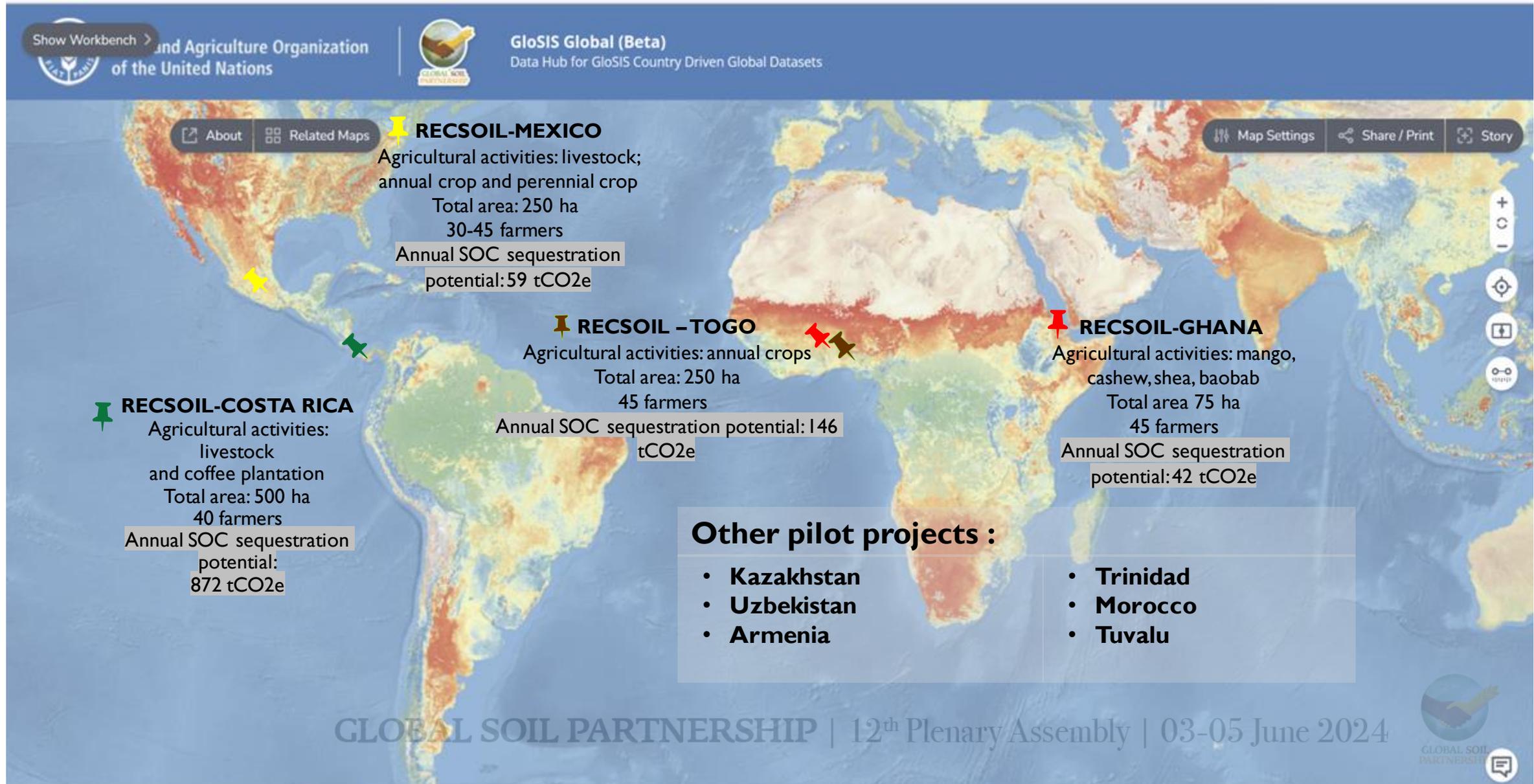
RECISOIL is a mechanism for scaling up sustainable soil management (SSM) with a focus on increasing soil organic carbon (SOC) and improving overall soil health. The priorities are to: a) prevent future SOC losses and increase SOC stocks; b) improve farmers' incomes; and c) contribute to food security. RECISOIL focuses on agricultural and degraded soils. The mechanism supports the provision of incentives for farmers who agree to implement good practices.

The RECISOIL initiative aims to materialize the global win-win potential of [soil organic carbon \(SOC\)](#) sequestration, bringing together private and public organizations, scientific institutions, local communities, and farmers.

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RECISOIL – Green Path / Piloting countries



Global Soil Doctors Programme



Training modules

What is soil

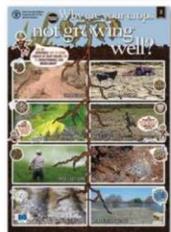
What are salinity/sodicity

Soils for nutrition

Recarbonization of soils

Soil fertility

Posters in official UN languages and local languages



Why are your crops not growing well?

Healthy soils are crucial for ensuring the continued growth of crops.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Dioula | Fulah | Kazakh | Mossi



What is soil?

Soils are complex mixtures of minerals, water, air, organic matter, and countless organisms that together support life on Earth.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Chichewa; Chewa; Nyanja | Dioula | Fulah | Kazakh | Mossi | Tumbuka | Bengali

Field exercises and educational kit

BIOLOGICAL PROPERTIES



CHEMICAL PROPERTIES



PHYSICAL PROPERTIES



BIOLOGICAL PROPERTIES



Roots Observation

The Global Soil Doctors Programme's Field Exercises developed by the Global Soil Partnership.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages:

+ Video tutorials



Visual soil assessment and SSM recommendations



How to prevent and remediate soil compaction?

This poster explains how to prevent and remediate soil compaction.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Dioula | Fulah | Kazakh | Mossi



How to best minimize soil erosion by water?

This poster explains how to minimize soil erosion by water.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Dioula | Fulah | Kazakh | Mossi



How to enhance soil organic matter content?

This poster explains how to enhance soil organic matter content.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Dioula | Fulah | Bengali | Kazakh | Mossi



How to manage soil nutrients?

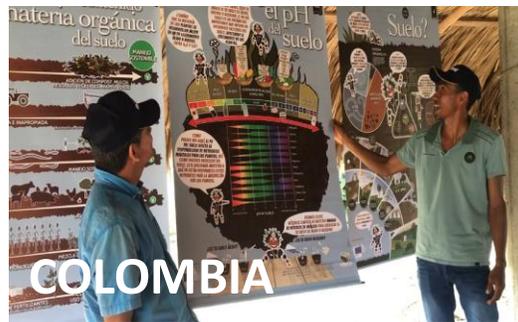
This poster explains how to manage soil nutrients.

Official languages: English | French | Spanish | Chinese | Russian | Arabic

Other languages: Bengali | Chichewa; Chewa; Nyanja (Temp unavailable) | Dioula | Fulah | Mossi | Tumbuka |



Global Soil Doctors Programme



Soil knowledge

Practical exercises

Informed decisions

Improved soil management

✓ 657 trainers and more than 1.800 soil doctors have been trained in 21 countries.

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Actions for the Plenary Assembly

- Invite Members and partners to **adopt the Voluntary Guidelines on Sustainable Soil Management (VGSSM)** and to **use the SSM Protocol**;
- Encourage Members to **contribute to the SoiLEX platform, and its update** in the future; and
- **Scaling up of the RECSOIL initiative and the Global Soil Doctors Programme implementation worldwide**, acknowledge the financial and in-kind contributions of GSP Members and partners to its implementation, and invite resource partners to provide funding to advance them on the ground.



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THANK YOU

