



Food and Agriculture
Organization of the
United Nations

WELCOMING PRESENTATION TO THE GSP PARTNERS

Promoting sustainable soil management for all



In 2011, Soil was not in the decision making agenda

BUT SOIL is

- a hidden resource
- not renewable in a human time scale

AND it delivers a myriad of ecosystem services that enable life on Earth soils

It can take up to 1000 years to produce just 2-3 cm of soil

Promoting sustainable soil

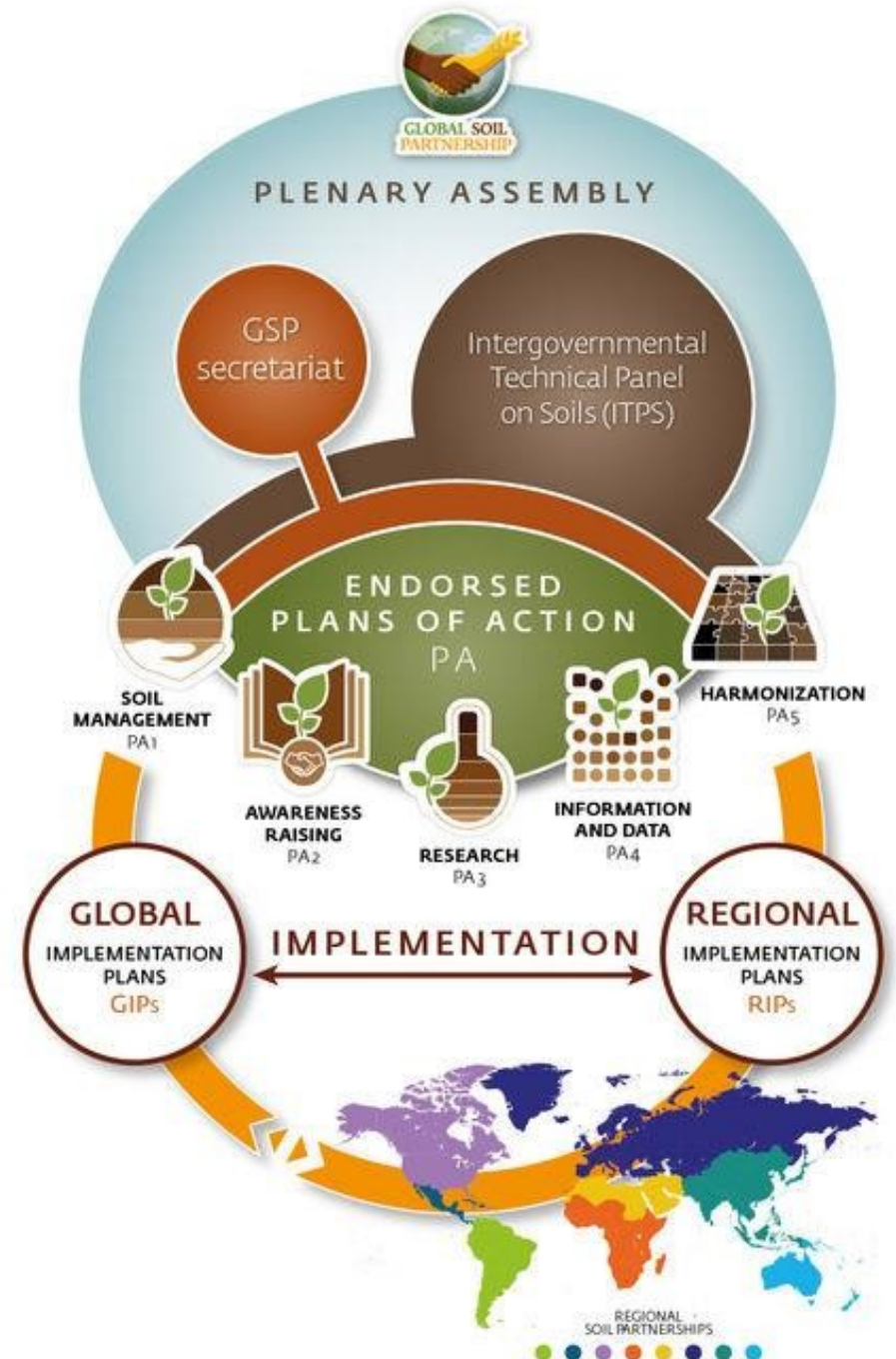


Global Soil Partnership

- Established in 2012
- A mechanism to develop a **strong partnership** and enhance **collaboration** between all stakeholders
- With the common objective of improving **governance** and promoting **sustainable soil management**.

<http://www.fao.org/global-soil-partnership/en/>

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The GSP used to operate through Pillars of Action. However, the discussion to move **from Pillars to AREAS OF WORK or TOPICS** started in 2021. We are working to make this transition in 2022.



Promoting sustainable soil management for all



Areas of work



Awareness
Raising



Soil
Biodiversity



Capacity
Building



Soil
Information



Soil
Erosion



Soil
Fertility



Soil
Governance



Soil
Pollution



Soil
Salinity



Soil Organic
Carbon



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In December 2013 the UN General Assembly responded by designating **5 December 2014 as the first official World Soil Day.**



**World
Soil Day**



World Soil Day 2016

Soils and pulses, symbiosis for
life



World Soil Day 2017

Caring for the planet starts
from the ground



World Soil Day 2018

Be the solution to soil pollution



World Soil Day 2019

Stop soil pollution, save our
future



World Soil Day 2020

Keep soil alive, protect soil
biodiversity



World Soil Day 2021

Halt soil salinization, boost soil
productivity



World Soil Day 2022

Soil, where food begins





World Soil Day 2015

FAO was nominated to implement the **International Year of Soil (IYS) 2015**, within the framework of the Global Soil Partnership and in collaboration with FAO member countries. The theme for **World Soil Day 2015** was "**Healthy soils for a healthy life**".

Special focus was placed on increasing awareness and understanding of the importance of soil for food security and essential ecosystem functions. Soils are a critical component of the natural system and a vital contributor to human wellbeing through its contribution to food, water and energy security and mitigation of biodiversity loss. It was celebrated by the global community of 60 000 soil scientists charged with the responsibility of generating and communicating soil knowledge for the common good of all.

[Link to the IYS 2015 website](#) | [Link to WSD 2015 communication material](#)

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King Bhumibol WSD award

Gives recognition to the most outstanding WSD celebration since 2018

2021 Winner: The Nigerian Institute of Soil Science (NISS)

Glinka prize

Awards a 'soil' champion each year since 2016

2021 Winner: Ms Lydie-Stella Koutika from The Republic of the Congo

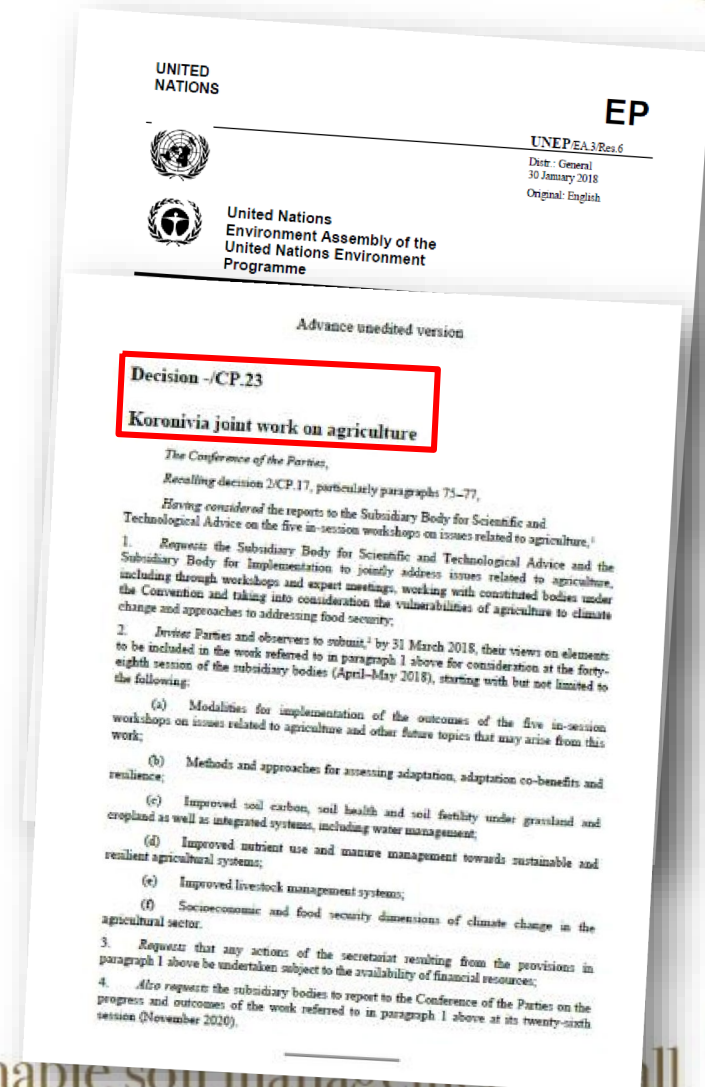
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Advocacy for the inclusion of soil into the SDGs and other international agreements

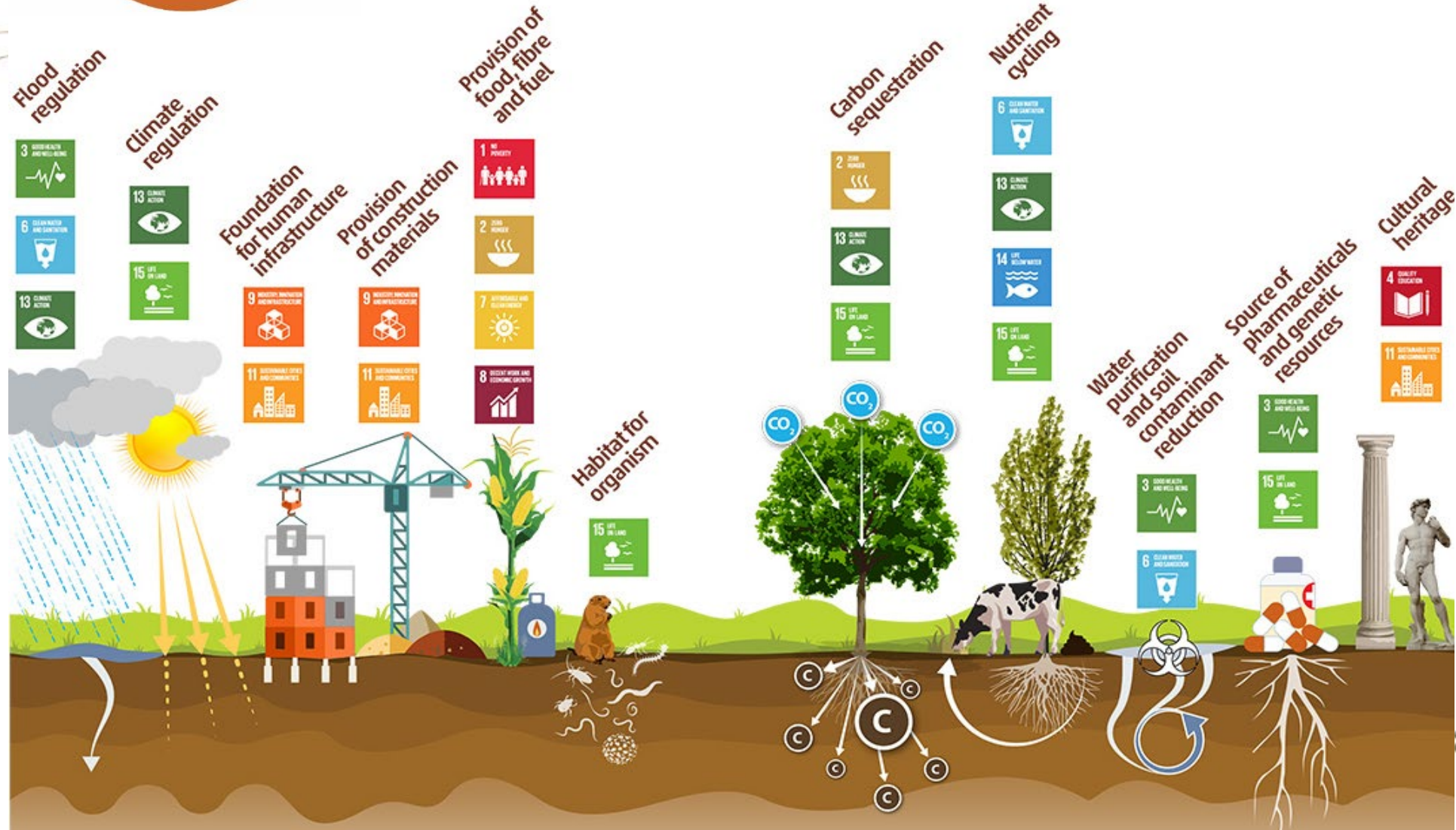


Of the 17 goals, four contains targets related to soils Promoting sustainable

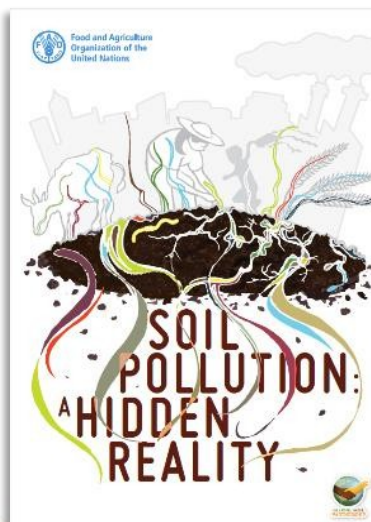
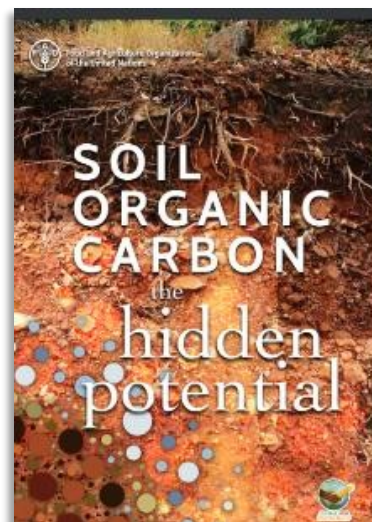
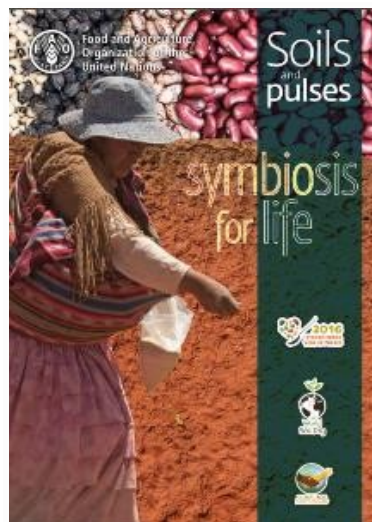
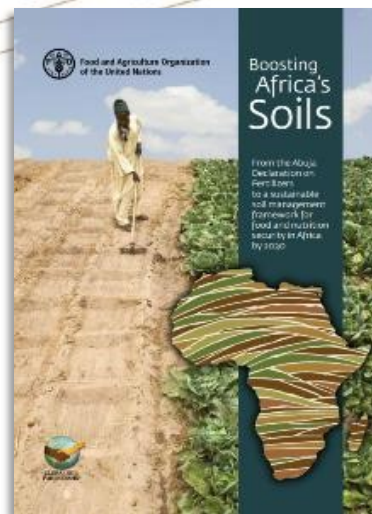




Healthy soils are capable of providing most terrestrial ecosystem services, therefore contributing to address Global Challenges achieve the SDGs and human well-being



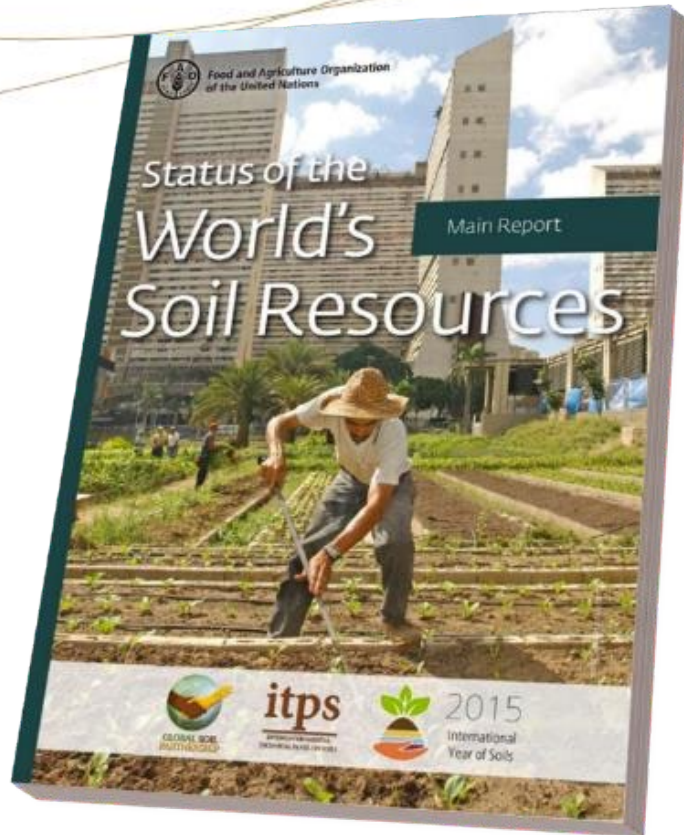
Technical publication



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Technical publication



- First **global assessment** of soil resources
- Ten **major threats** affecting **soil health** globally
- **33% of land is moderately to highly degraded** mainly because of erosion, salinization, compaction, acidification and pollution



Second version of the report to be released in 2025

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Communication material

Posters, videos, flyers, etc.



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Global Soil Doctors Programme

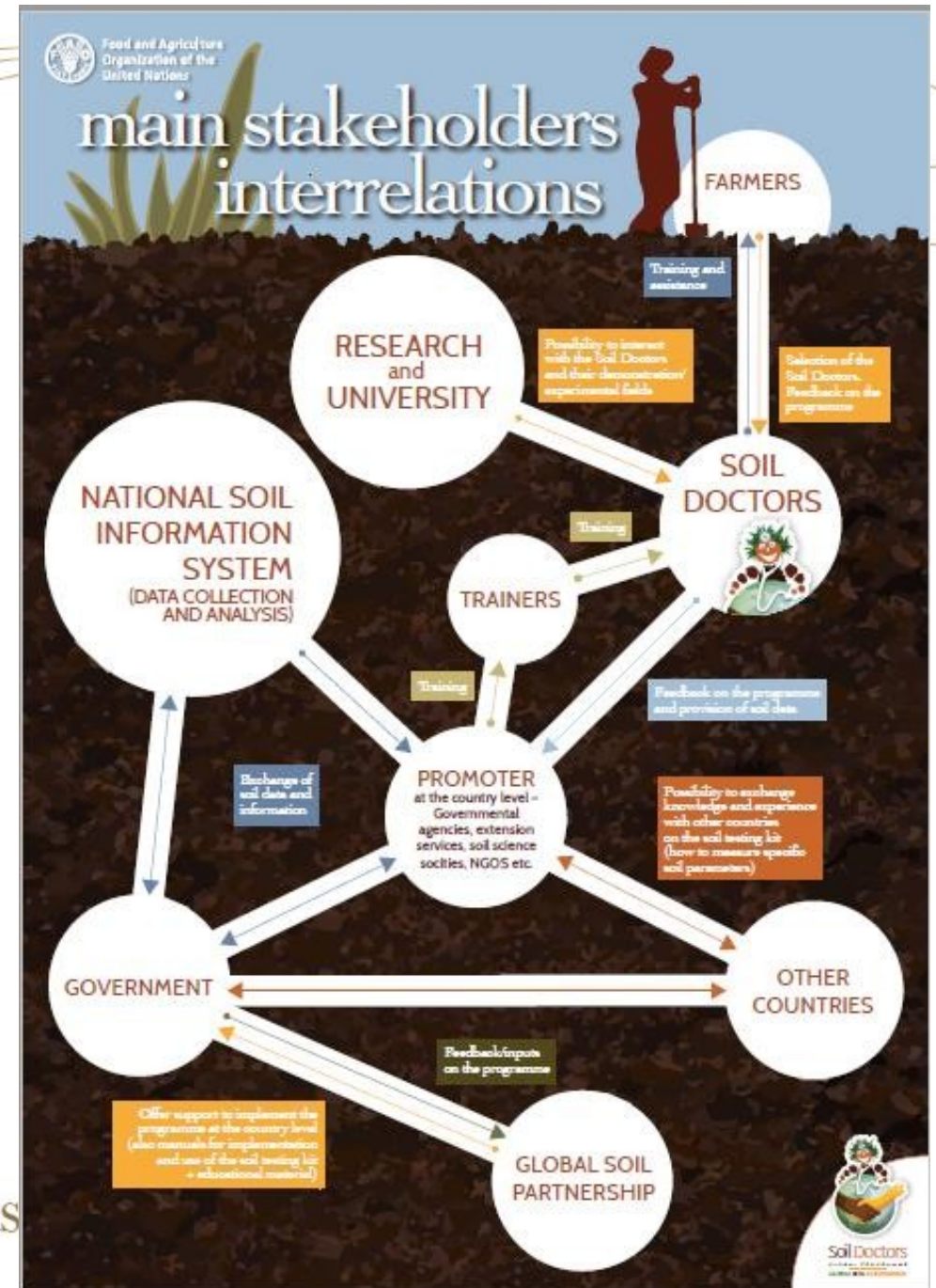
The programme aims to educate farmers on soil science principles for **practices of sustainable soil management** by providing them with a set of **educational materials** and a **soil testing methods** (STM) manual for preliminary soil analysis.



Soil Doctors
GLOBAL PROGRAMME

GLOBAL SOIL PARTNERSHIP

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Soil Doctor trainer showing the poster on What is soil? ©Blanca Prado



Practical exercise on soil texture ©Ana Alejandra Valenzuela García



Practical exercise on soil pH determination ©Verónica Bunge Vivier



Soil Doctor trainer briefing about Soil Doctor ©Parimal Biswas



Practical class on soil pH determination ©Parimal Biswas

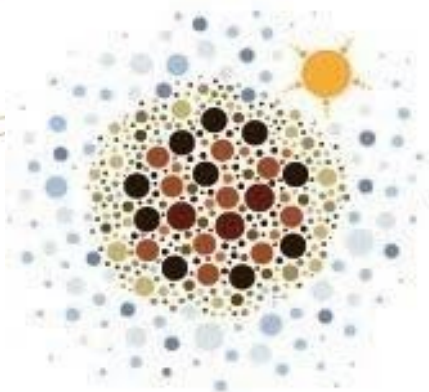


Soil Doctor Certificate distribution for all ©Parimal Biswas

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GSP Global symposia



Global Symposium on
Soil Organic Carbon
2017



Global symposium on
Soil Pollution 2018



Global Symposium on
Soil Erosion 2019



Global Symposium on
Soil Biodiversity 2021



Global Symposium on
Salt-affected Soils
2021

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GSP Global symposia

Global Symposium on Soils for Nutrition

26 Jul 2022 - 29 Jul 2022

Virtual event (Zoom)



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Areas of work



Awareness
Raising



Soil
Biodiversity



Capacity
Building



Soil
Information



Soil
Erosion



Soil
Fertility



Soil
Governance



Soil
Pollution



Soil
Salinity



Soil Organic
Carbon



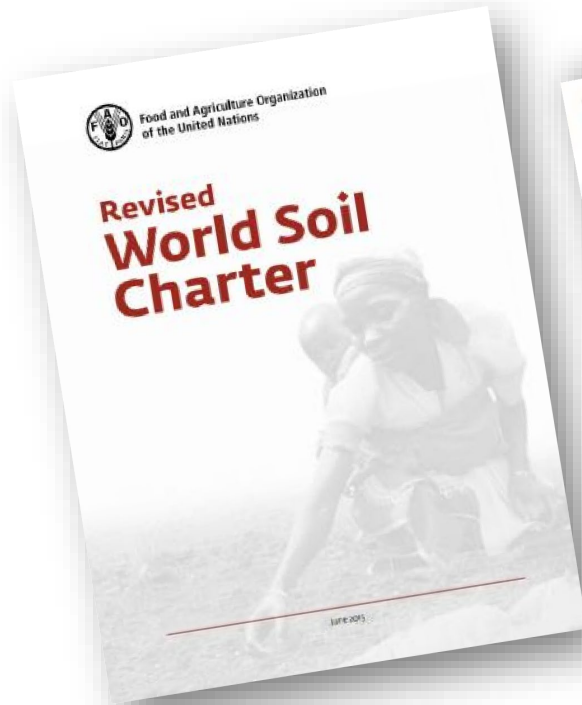
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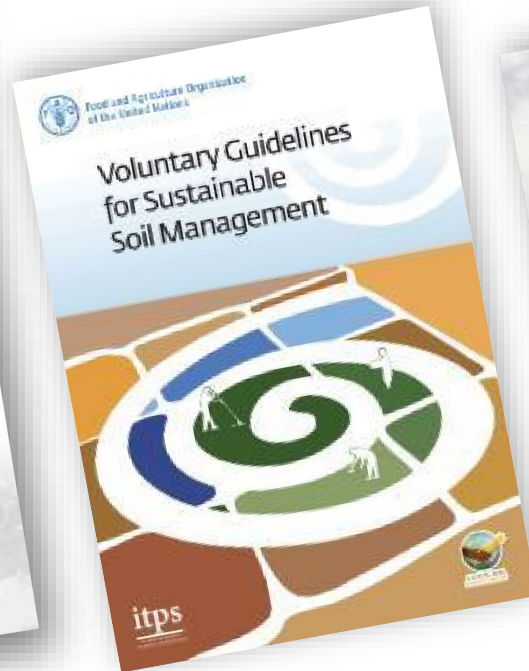
Normative tools

To address soil degradation & provide solutions through
Sustainable soil management

2015



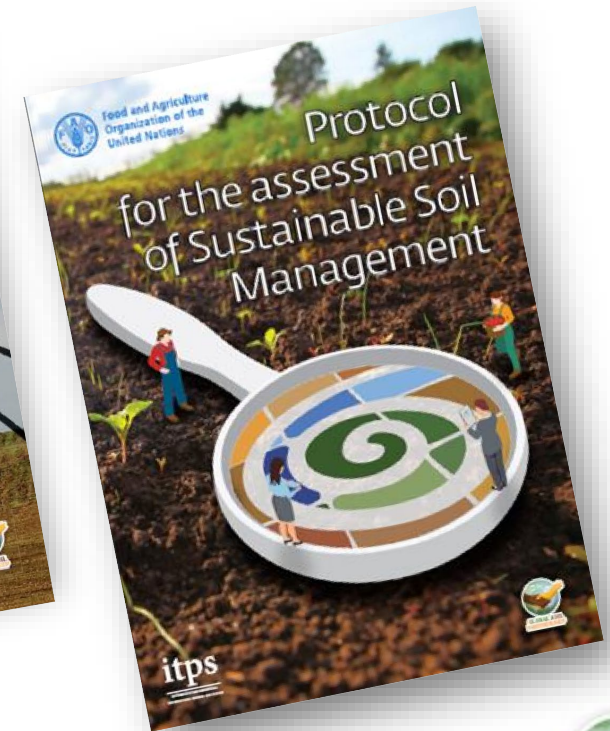
2017



2019



2020



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SoiLEX

The GSP newest tool on soil governance

An online global database
specifically on soil protection
and soil degradation
prevention legal instruments

SoiLEX - Soil related legal instruments and soil governance

SoiLEX is a global database that aims to facilitate access to information on existing legal instruments on soil protection and prevention of soil degradation. The platform was created in coordination with **FAOLEX**, which is to date one of the largest databases of legal frameworks and instruments related to natural resource management, food and agriculture.

The legal and policy instruments can be searched by country profiles or by soil-related keywords. The information provided by the database allows users to have the complete document as well as a detailed summary of its content, focusing mainly on the purpose and specific objectives of the instrument.

The platform is managed by the Global Soil Partnership within the FAO Land and Water Division. If you are interested in learning more about SoiLEX and would like to contribute to its development and maintenance, please **send us an e-mail** or respond to the SoiLEX questionnaire for your country [here](#).

Country/Territory

- select -

Submit

More search options



Areas of work



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Soil threats specific activities include:

- **Awareness raising**
 - **Mapping (GSOC, GSOCseq, GSAS, GSER, GBSmpa, etc.)**
 - **Capacity building** on soil assessment and management.
- Publication of **manuals and guidelines.**

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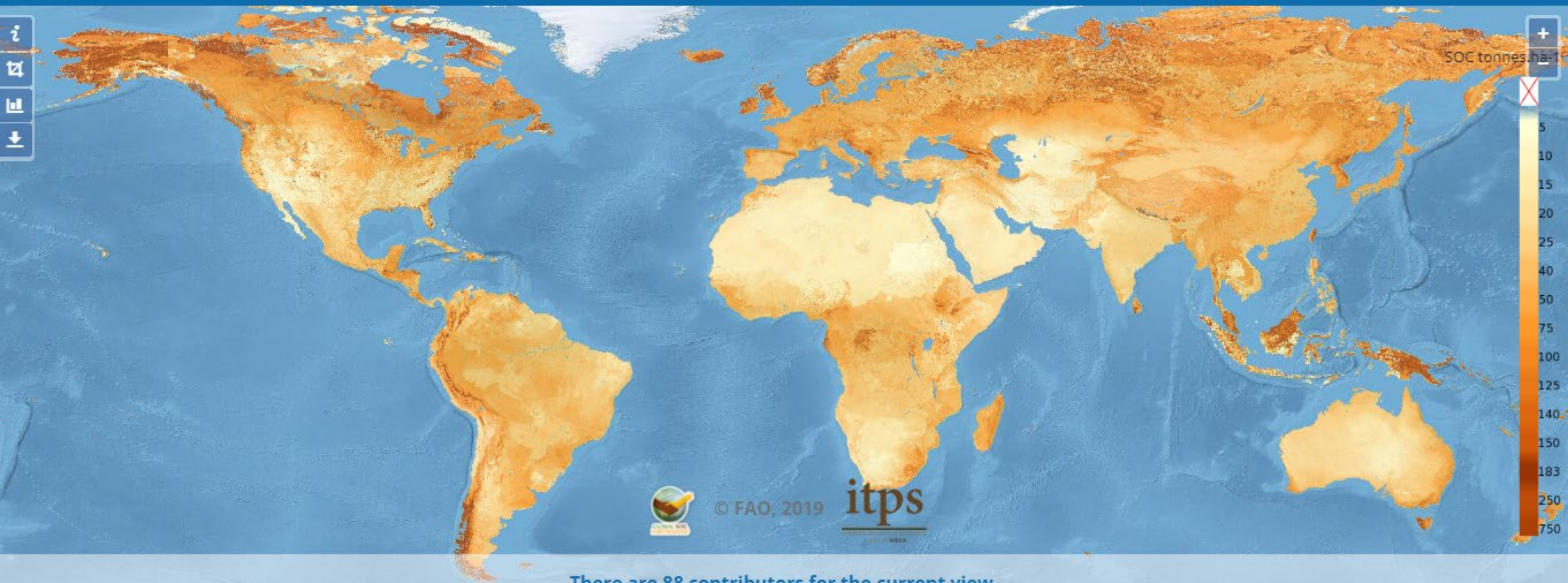




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GLOSIS - GSOCmap (v1.5.0)

Global Soil Organic Carbon Map. Contributing Countries.



There are 88 contributors for the current view.

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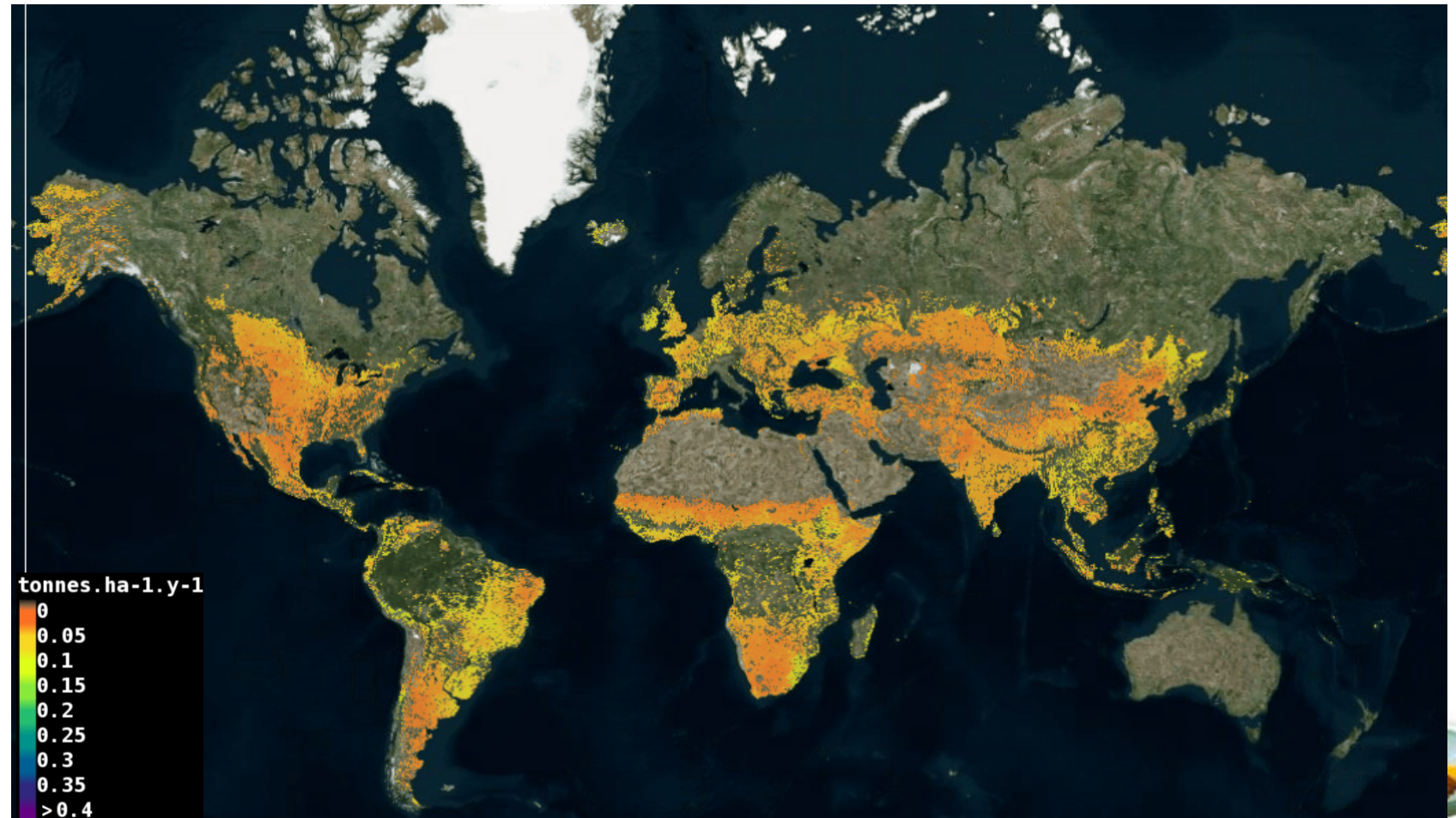


Global Soil Organic Carbon Sequestration map (GSOCseq map)

If managed sustainably - can sequester up to 0.56 petagrams of carbon --or 2.05 gigatonnes of CO₂ equivalent -- per year, having the potential to offset yearly as much as 34 percent of agricultural global greenhouse gas emissions.

GSOCseq V1.0.0

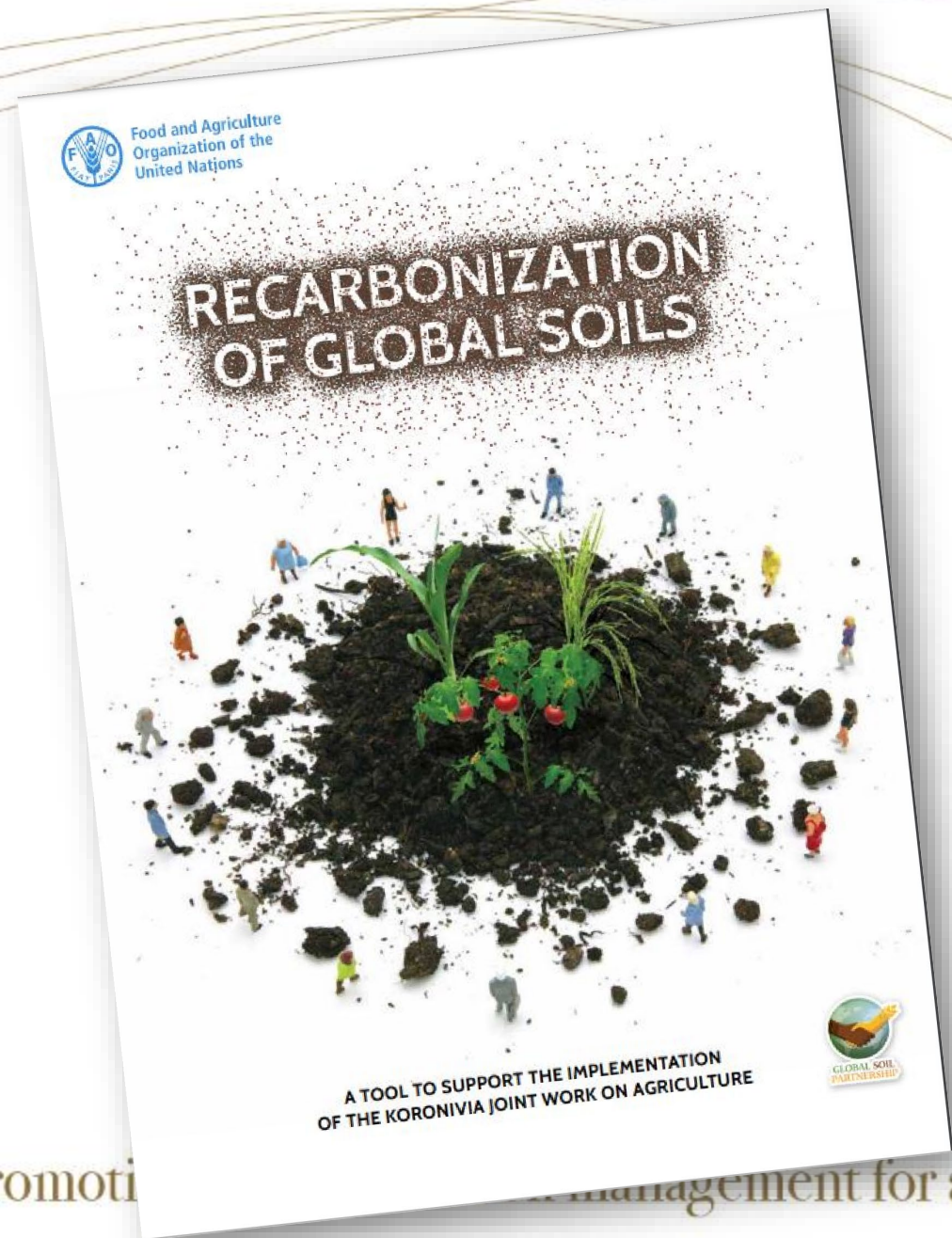
- SOC Sequestration Potential (tC/ha/yr) SSM 1-3 (vs BAU)
- 20-year period (2020-2040)
- Depth: 0-30 cm
- 1 x 1 km resolution
- Current Agricultural Lands (Croplands + grazing lands) under management



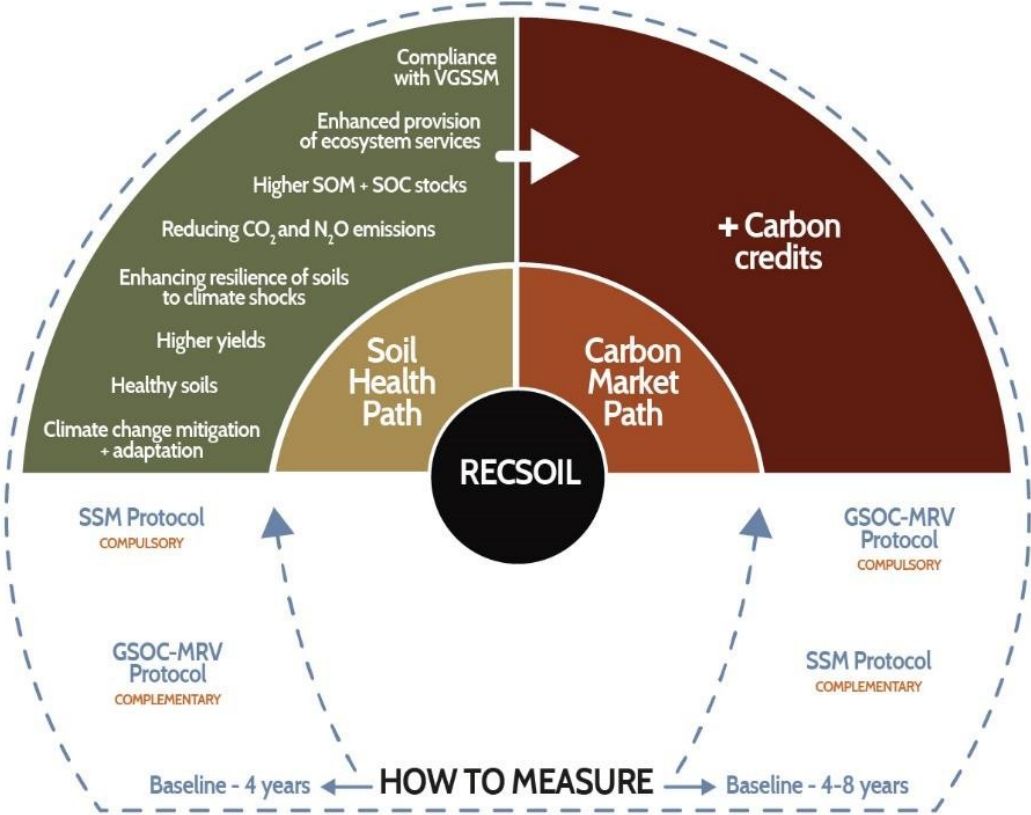
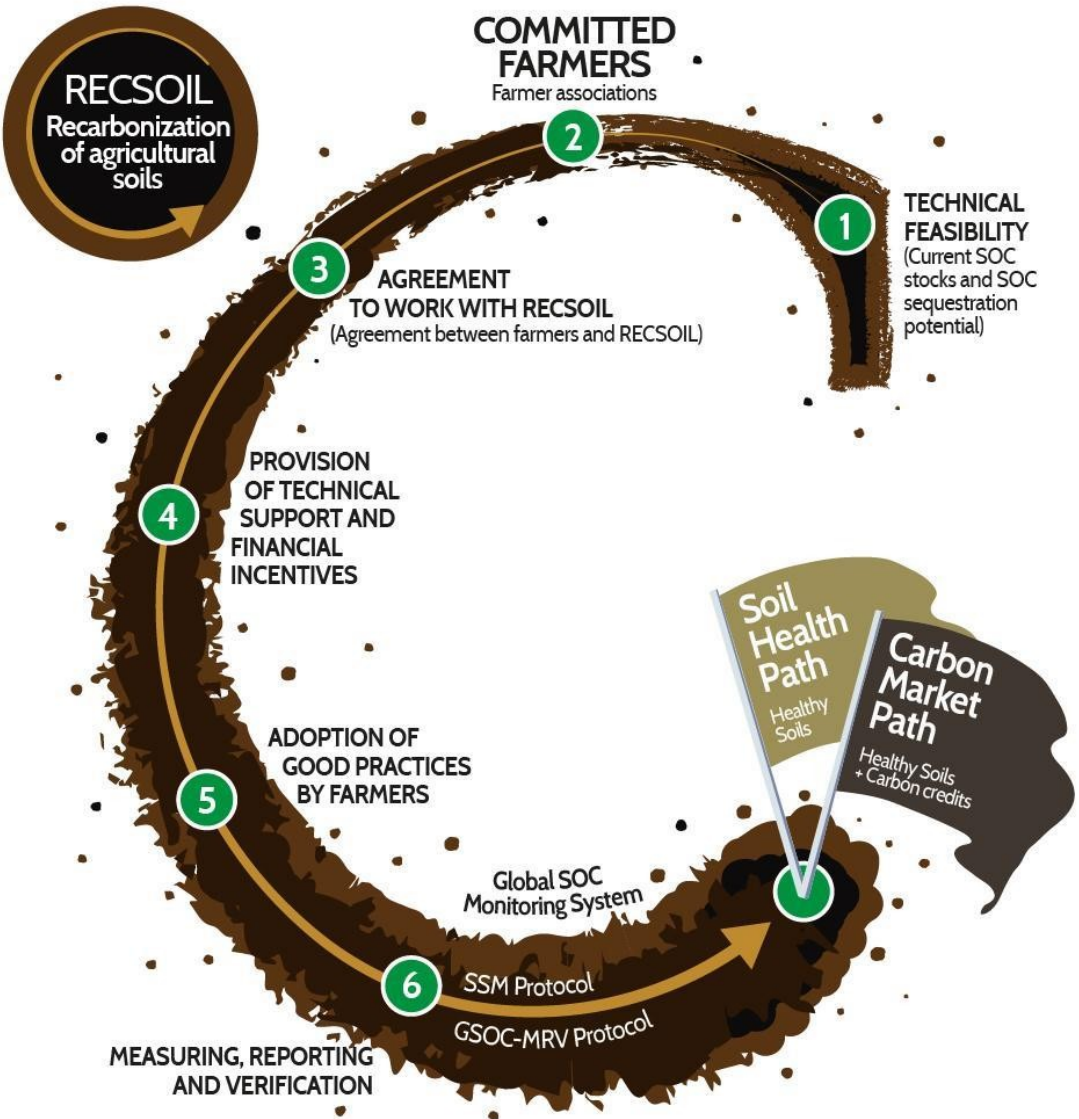
RECISOIL

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Adoption of good practices by farmers for maintaining and enhancing SOC stocks and reducing GHG, and boosting soil health and co-benefits (ecosystem services).



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International Network of
Soil Information
Institutions (**INSII**)



International Network on
Fertilizer Analysis (**INFA**)



International Network of
Black Soils (**INBS**)



International Network of
Salt-affected Soils (**INSAS**)



International Network on
Soil Biodiversity (**NETSOB**)



International Network on
Soil Pollution (**INSOP**)

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The GSP operates with the support of National Focal Points and **Partners**



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THE GSP PARTNERS

- **OVER 400 GSP PARTNERS** worldwide ranging from academia NGOs, CSOs, and soil institutes to private companies, farmer associations and extension services.

TASKS:

- Support the national focal points to implement GSP activities at the national and regional level
- Promote technical and scientific cooperation on soil
- Promote awareness raising on soil



Thanks for your attention

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