



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**

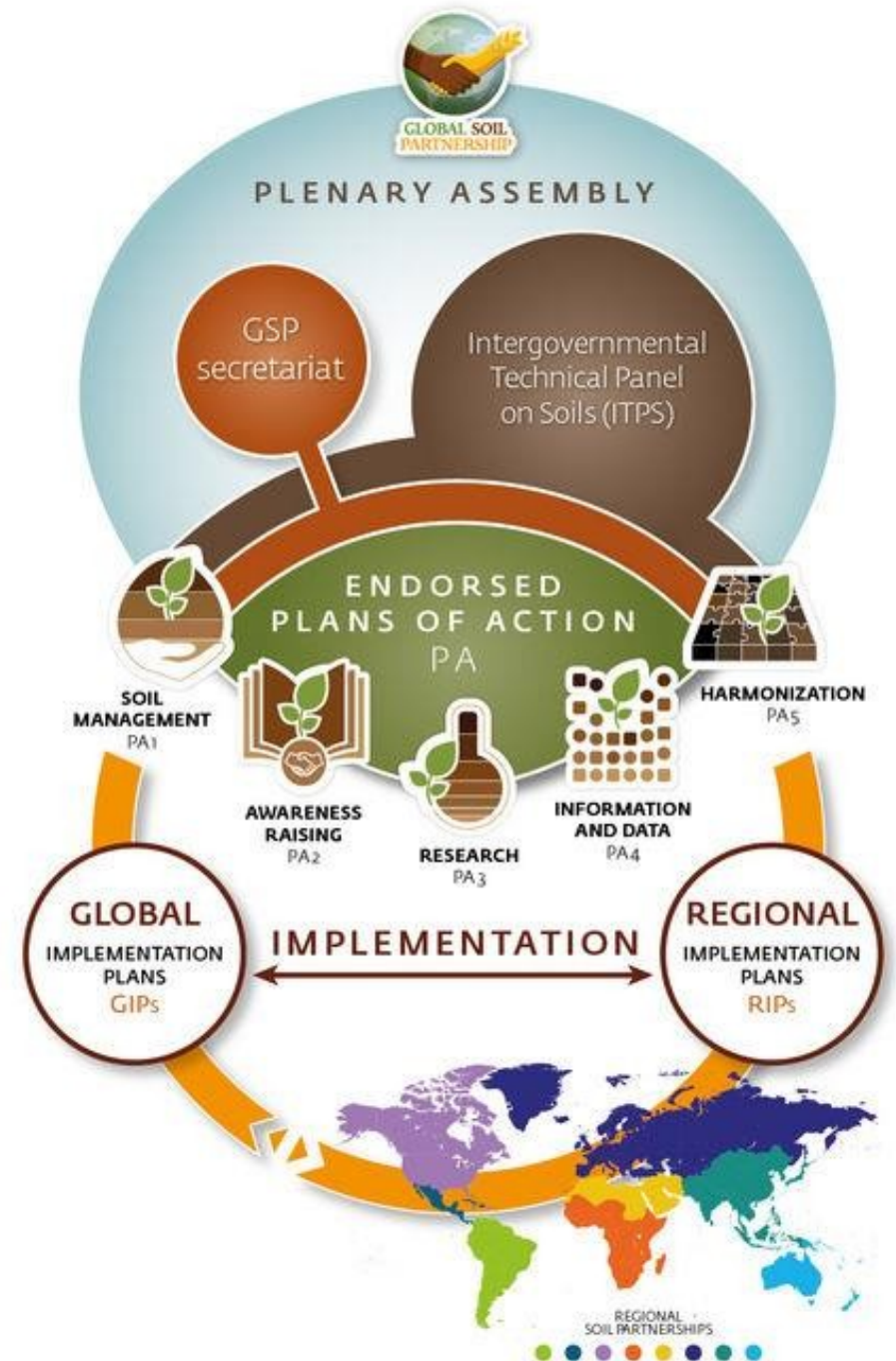
Promoting sustainable soil



# 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/>



Promoting su

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



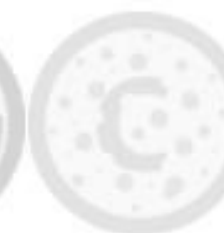
Soil  
Governance



Soil  
Pollution



Soil  
Salinity



Soil Organic  
Carbon



Promoting sustainable soil management for all



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](#)

Promoting sustainable soil management for all





## 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*

Promoting sustain



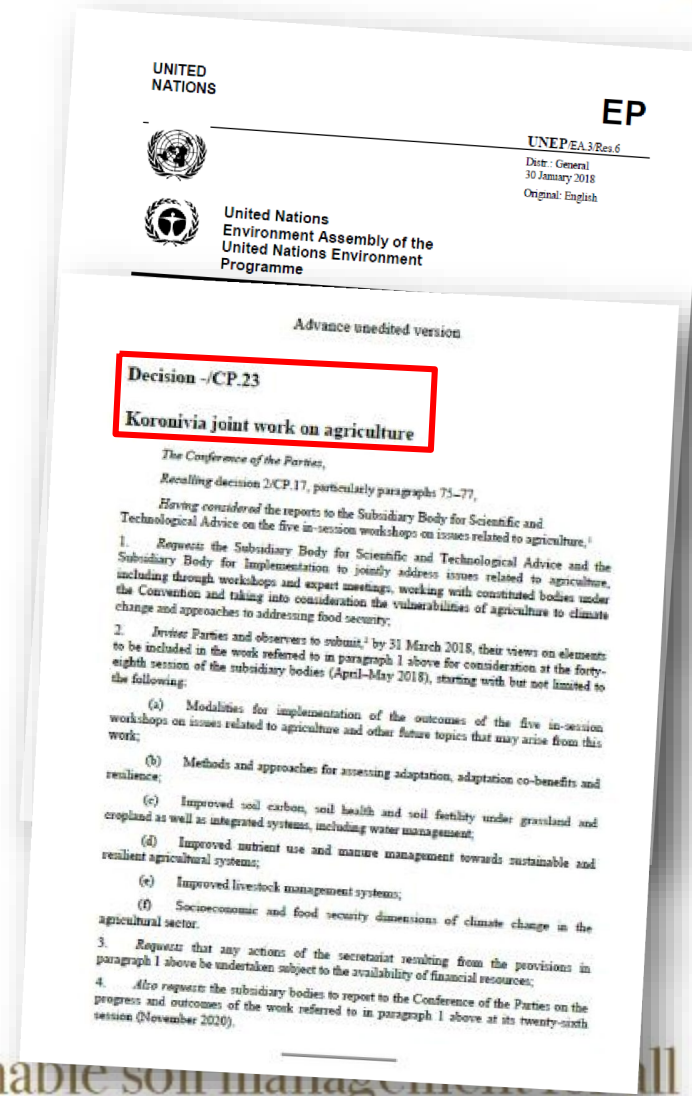


# Advocacy for the inclusion of soil into the SDGs and other international agreements



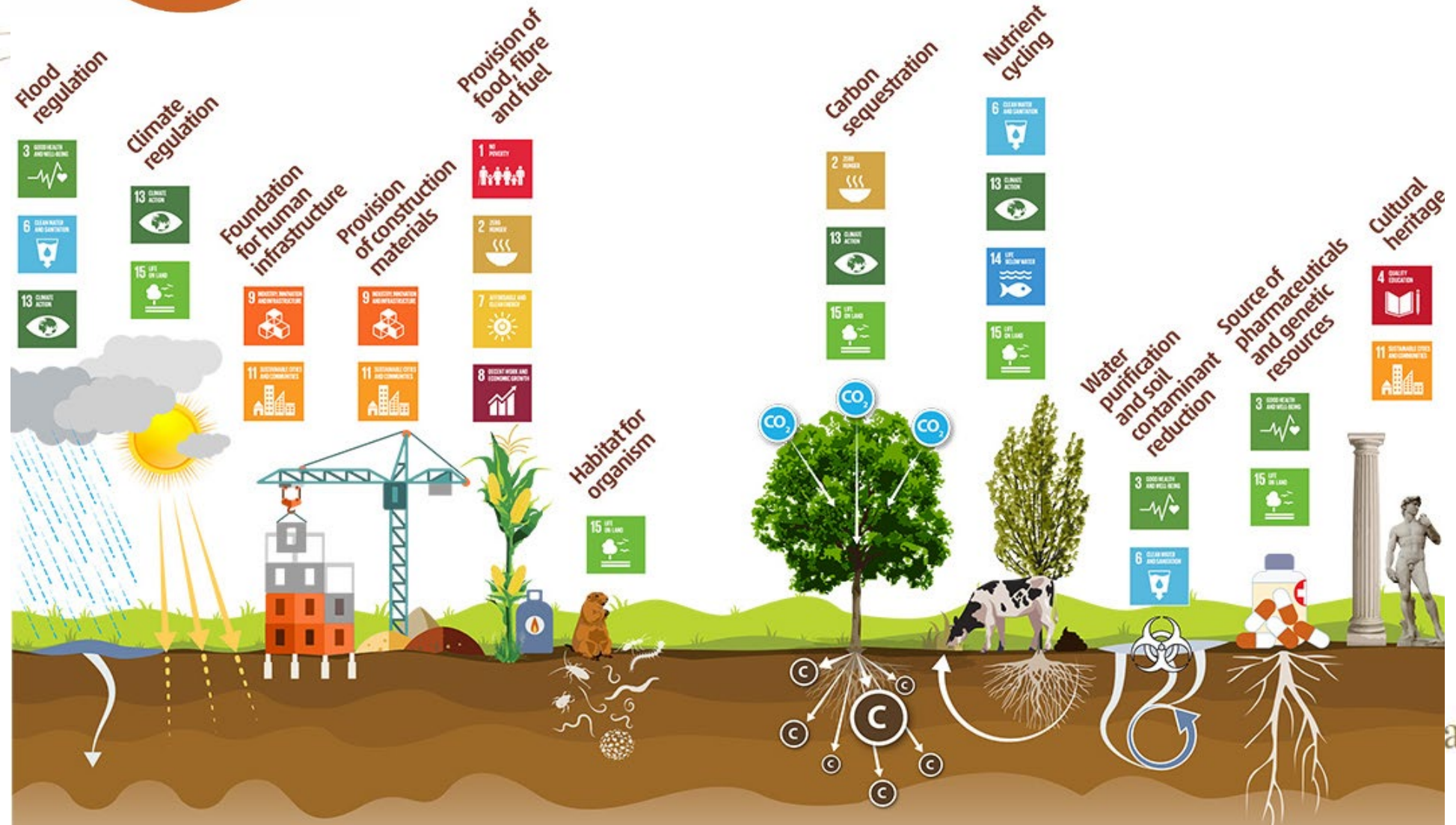
Of the 17 goals, four contains targets related to soils

Promoting sustainable soil management

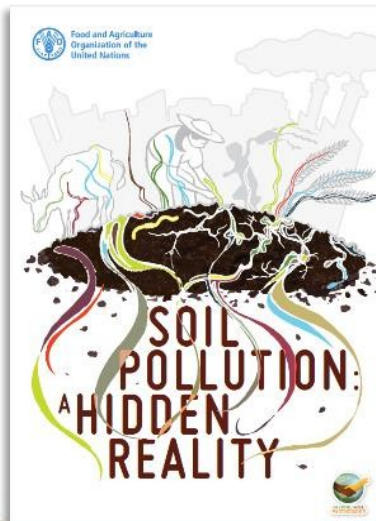
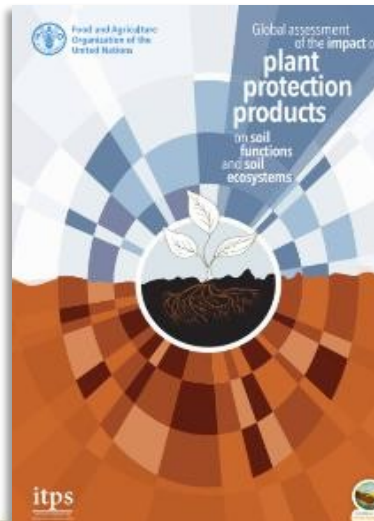
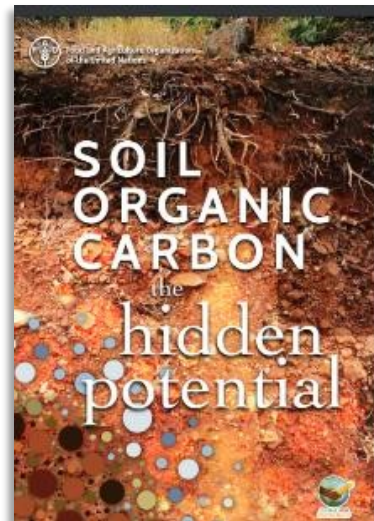
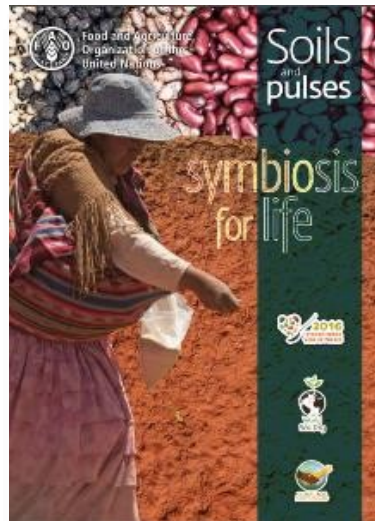
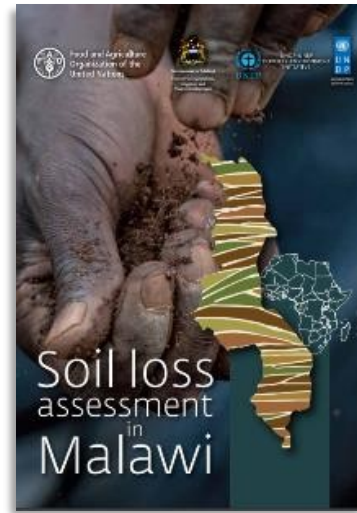
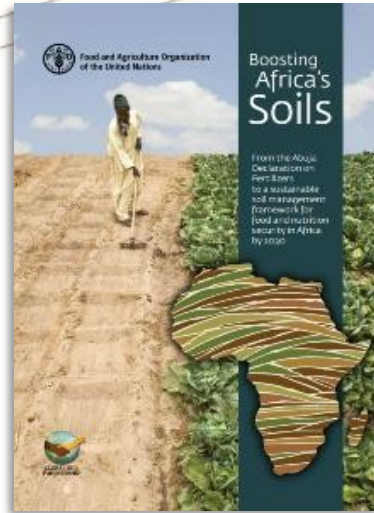




Healthy soils are capable of providing most terrestrial ecosystem services, therefore contributing to address Global Challenges achieve the SDGs and human well-being



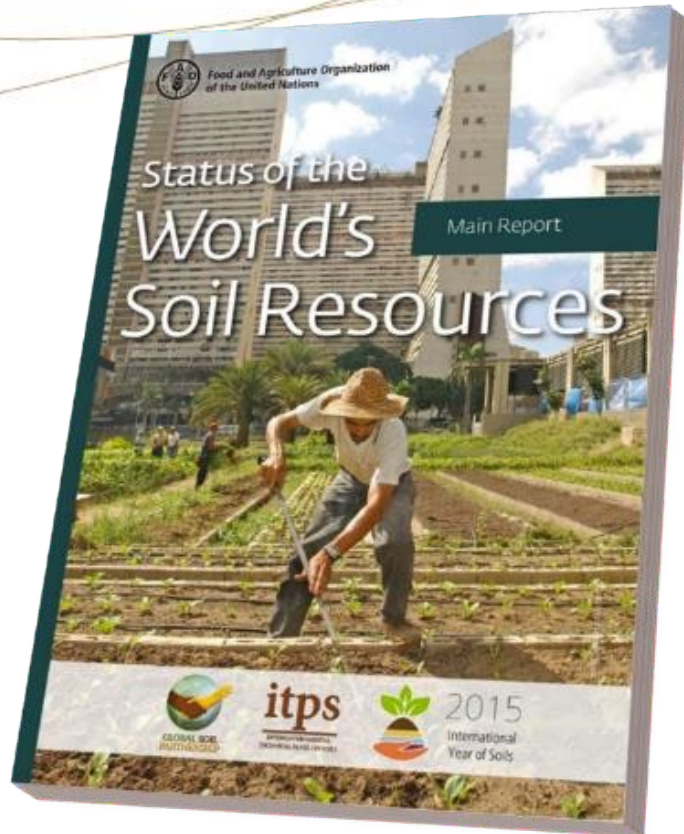
# Technical publication



Promoting sustainable soil management for all



# 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

Promoting sustainable soil management for all



# Communication material

Posters, videos, flyers, etc.



Promoting sustainable soil management for all

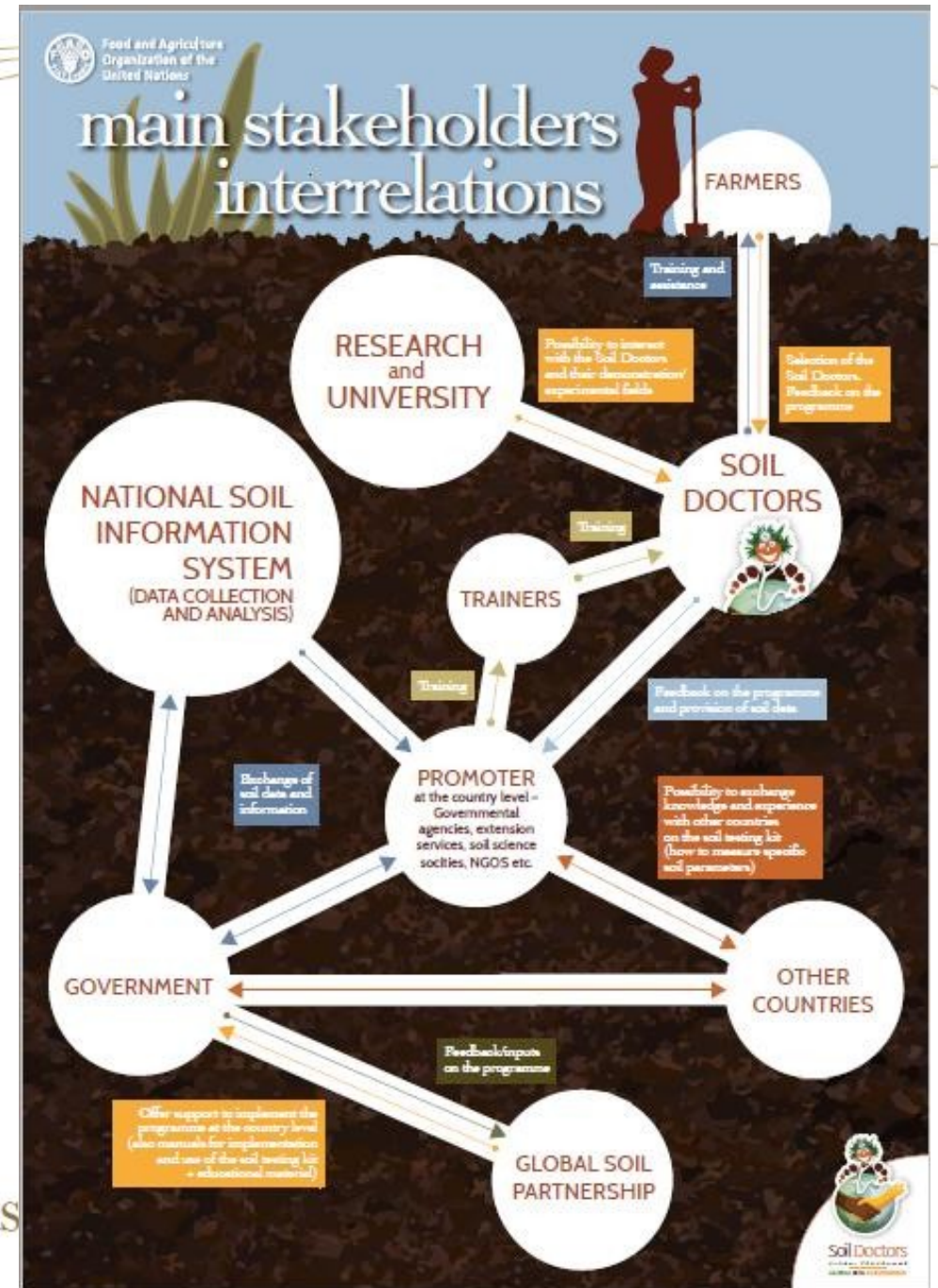


# Global Soil Doctors Programme

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  
Promoting sus





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

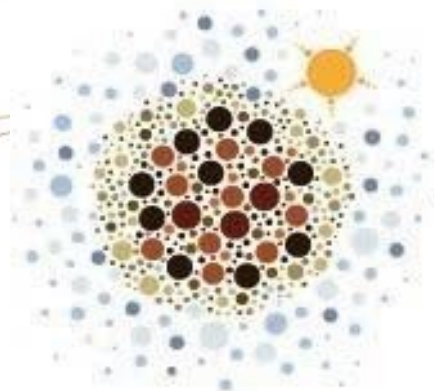


Soil Doctor Certificate distribution ©Parimal Biswas

Promoting sustainable soil management for all



# 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  
Prom  
soil management for all





# GSP Global symposia

## Global Symposium on Soils for Nutrition

26 Jul 2022 - 29 Jul 2022

Virtual event (Zoom)



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



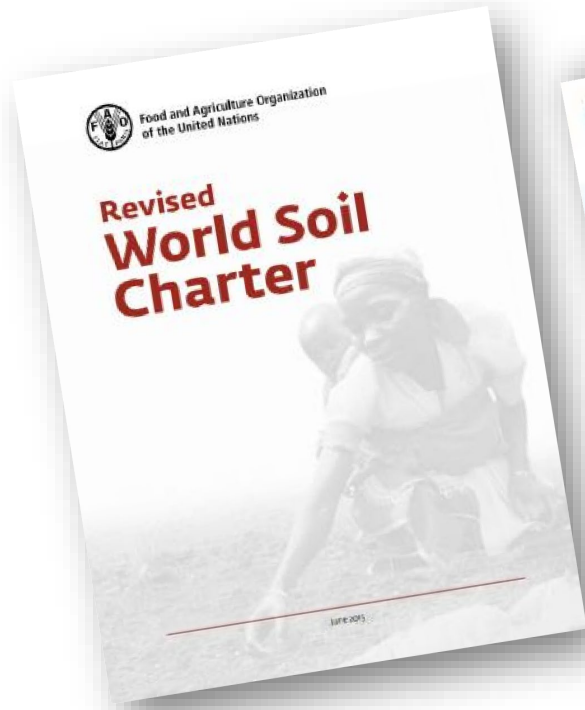
Promoting sustainable soil management for all



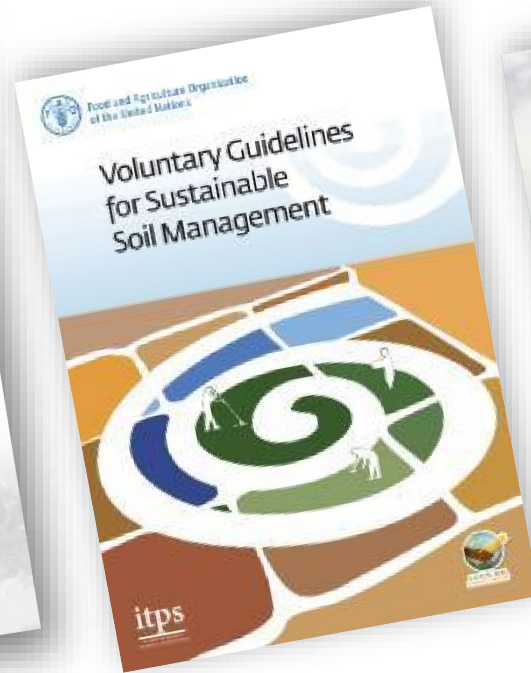
# Normative tools

To address soil degradation & provide solutions through Sustainable soil management

2015



2017



2019



2020



Promoting sustainable soil management for all



# 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.

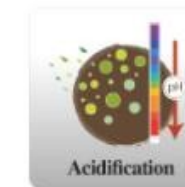
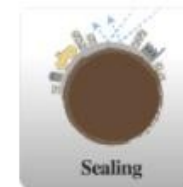
The platform is managed by the Global Soil Partnership within the FAO Land and Water Division. If you are interested in learning more about SoiLEX and would like to contribute to its development and maintenance, please **send us an e-mail** or respond to the SoiLEX questionnaire for your country [here](#).

Country/Territory

- select -

Submit

#### More search options



## Areas of work



Awareness  
Raising



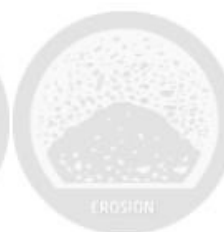
Soil  
Biodiversity



Capacity  
Building



Soil  
Information



Soil  
Erosion



Soil  
Fertility



Soil  
Governance



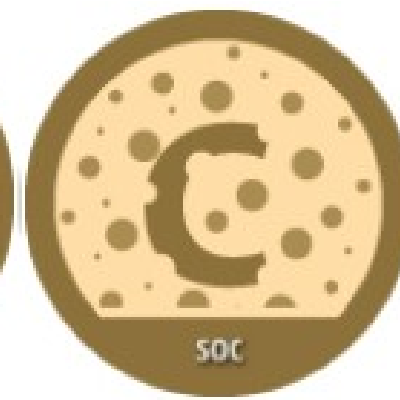
Soil  
Pollution



Soil  
Salinity



Soil Organic  
Carbon



Promoting sustainable soil management for all





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.

Promoting sustainable soil management for all

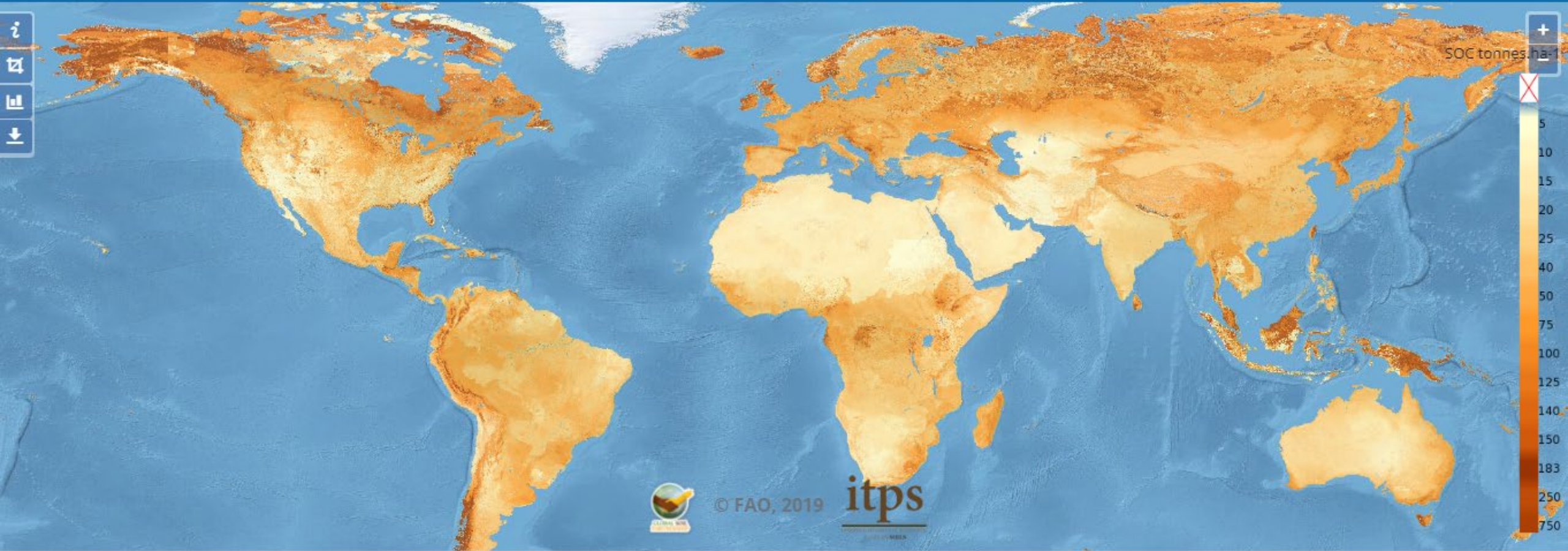




Food and Agriculture Organization  
of the United Nations

### GLOIS - GSOCmap (v1.5.0)

Global Soil Organic Carbon Map. Contributing Countries.



There are 88 contributors for the current view.

Promoting sustainable soil management for all

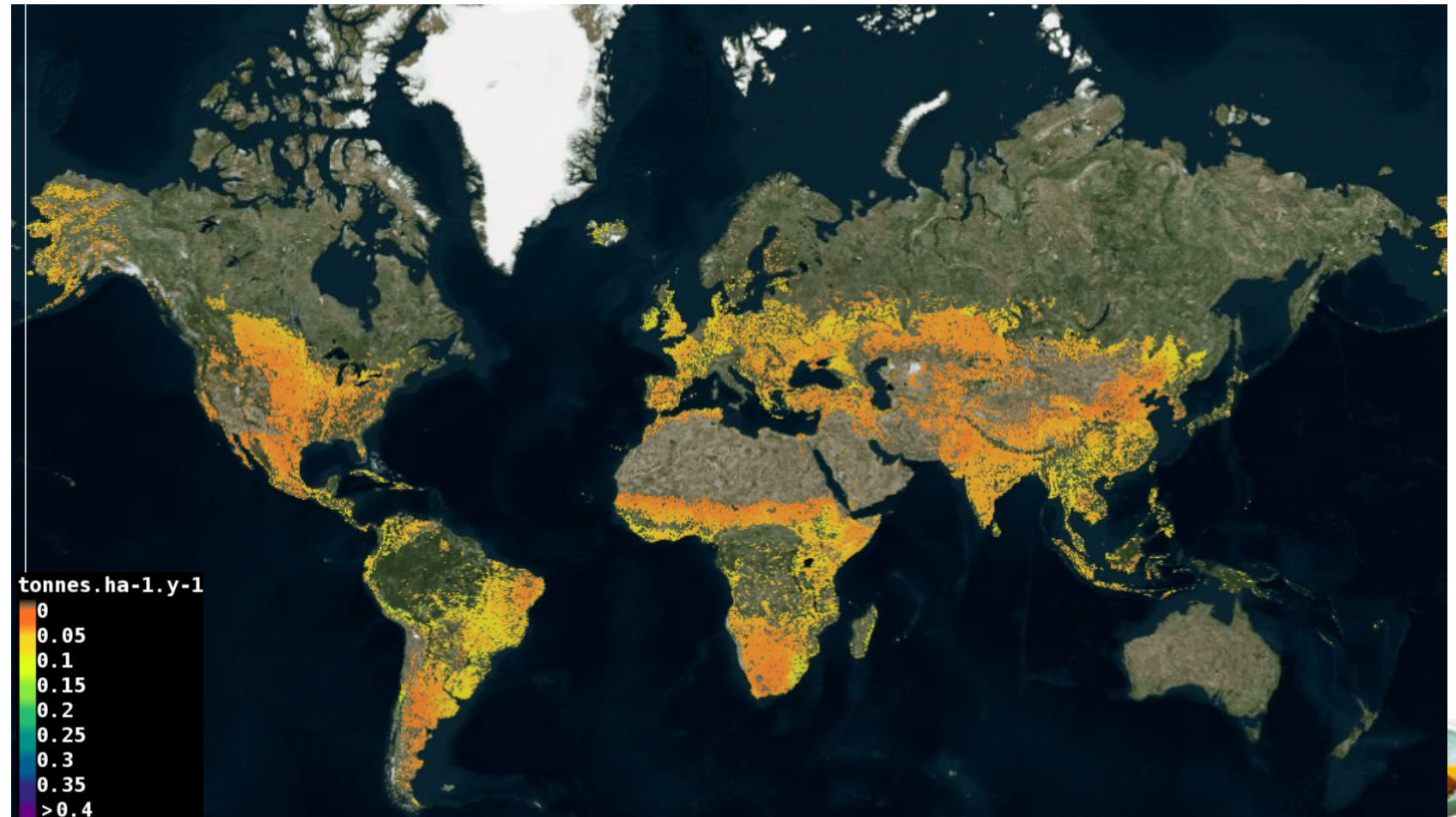


# Global Soil Organic Carbon Sequestration map (GSOCseq map)

If managed sustainably - can sequester up to 0.56 petagrams of carbon --or 2.05 gigatonnes of CO<sub>2</sub> 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

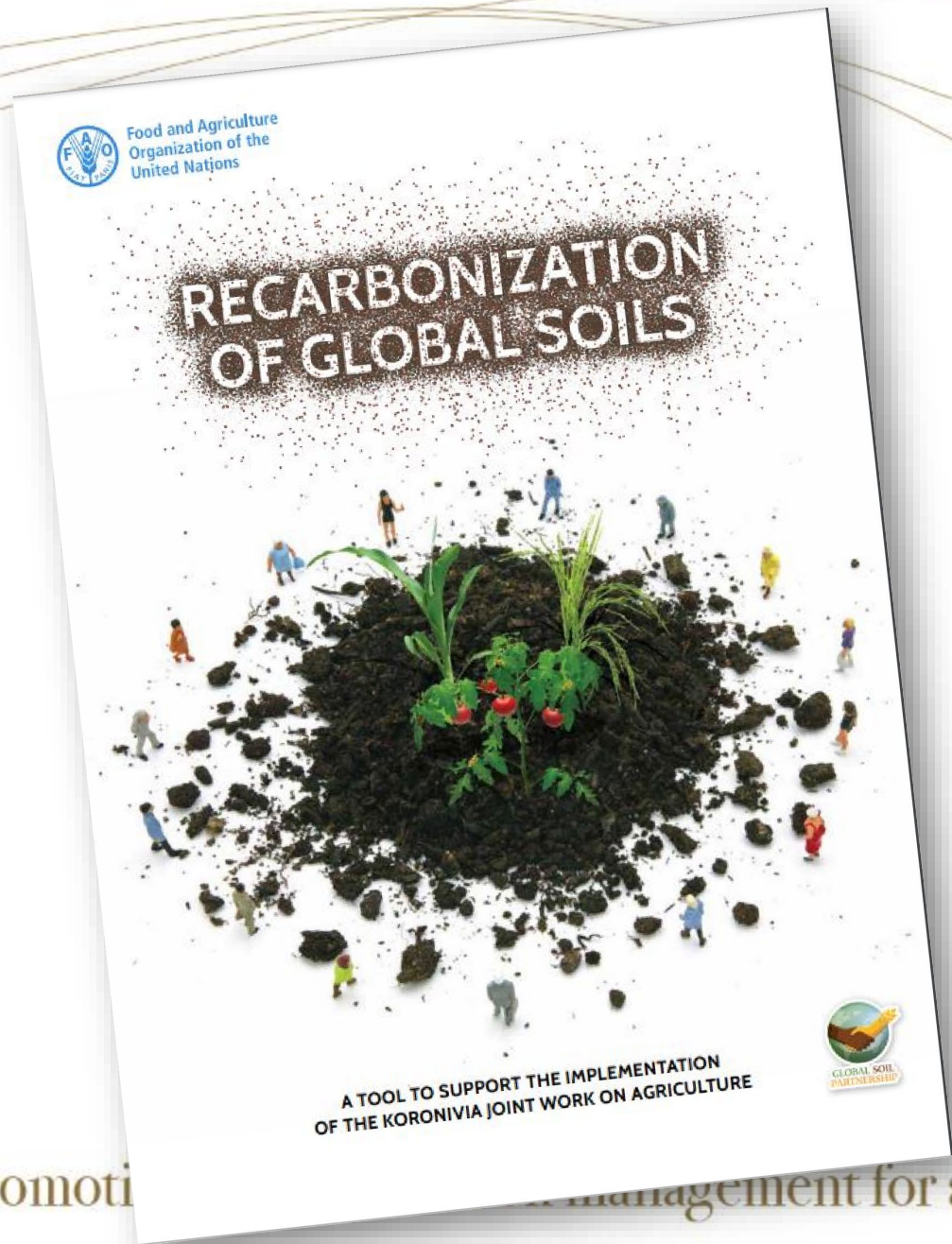




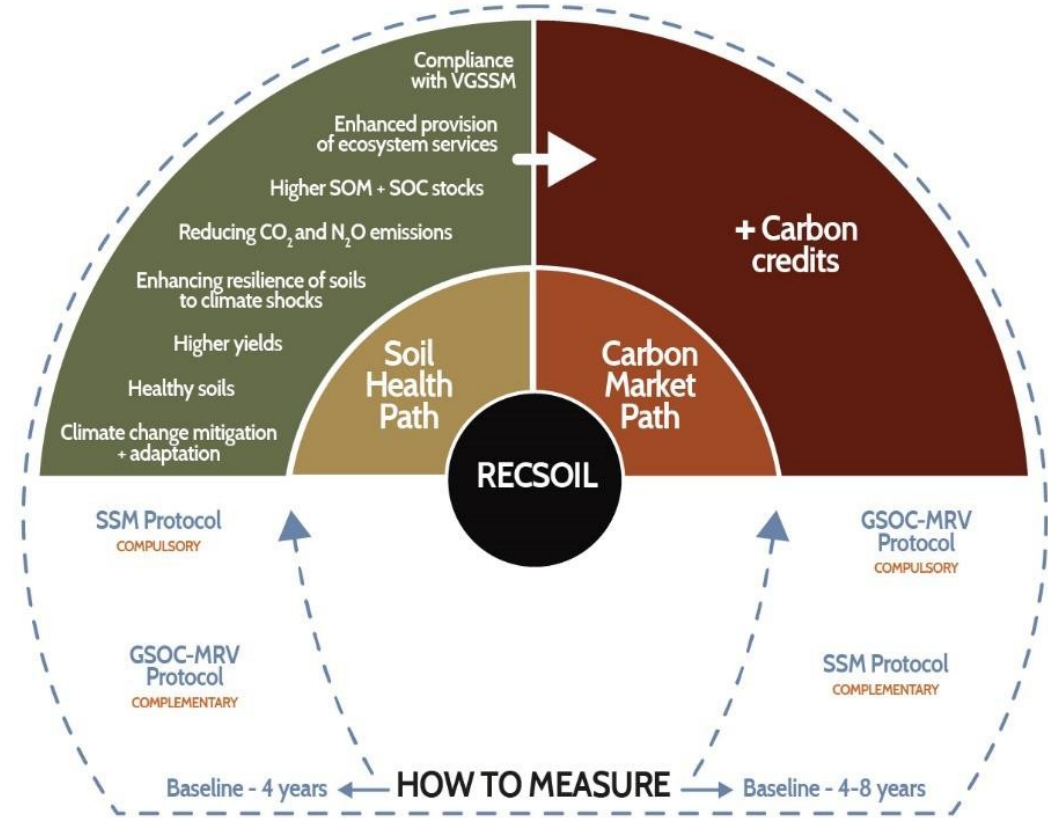
# RECISOIL

Promoti

management for all



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



moving sustainable soil management for all





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**)

Promoting sustainable soil management for all



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



ment for all



# 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



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

Promoting sustainable soil management for all



Thanks for your attention

Promoting sustainable soil management for all

