

7th Meeting of the Asian Soil Laboratory Network (SEALNET)

19-20 September 2023

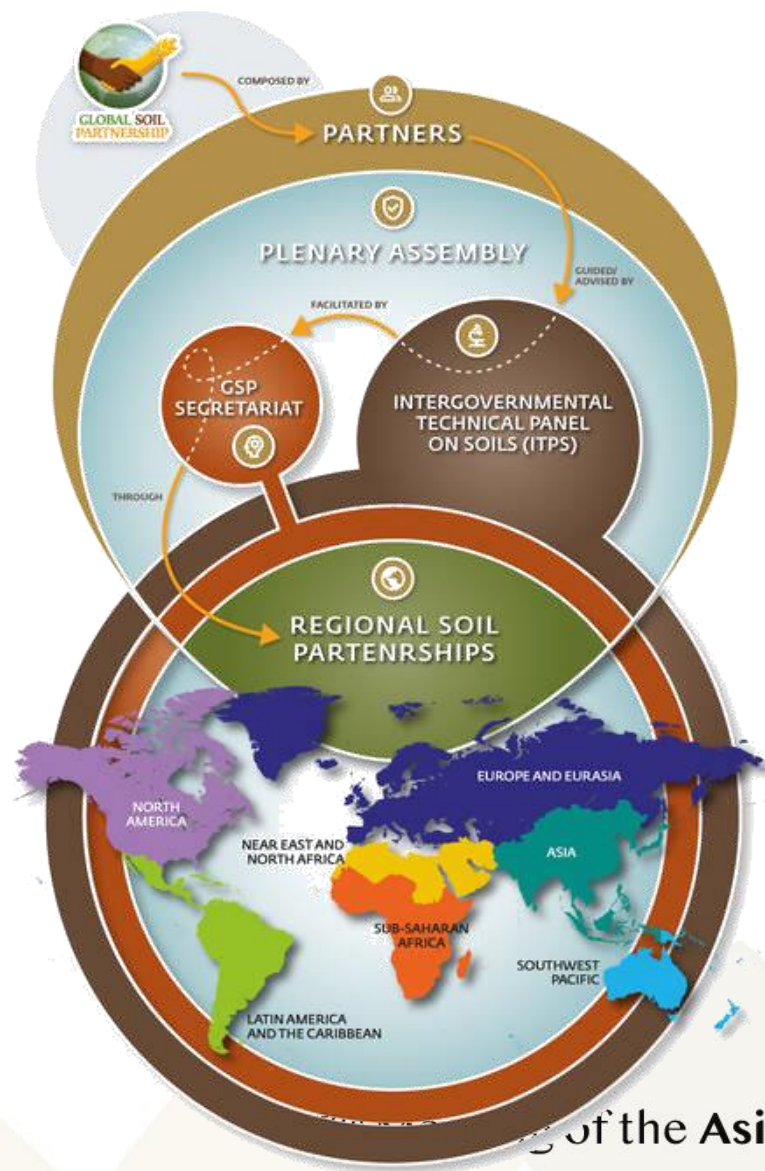
GLOSOLAN and other Global Soil Partnership activities 2023-2024



SEALNET
ASIAN SOIL LABORATORY NETWORK

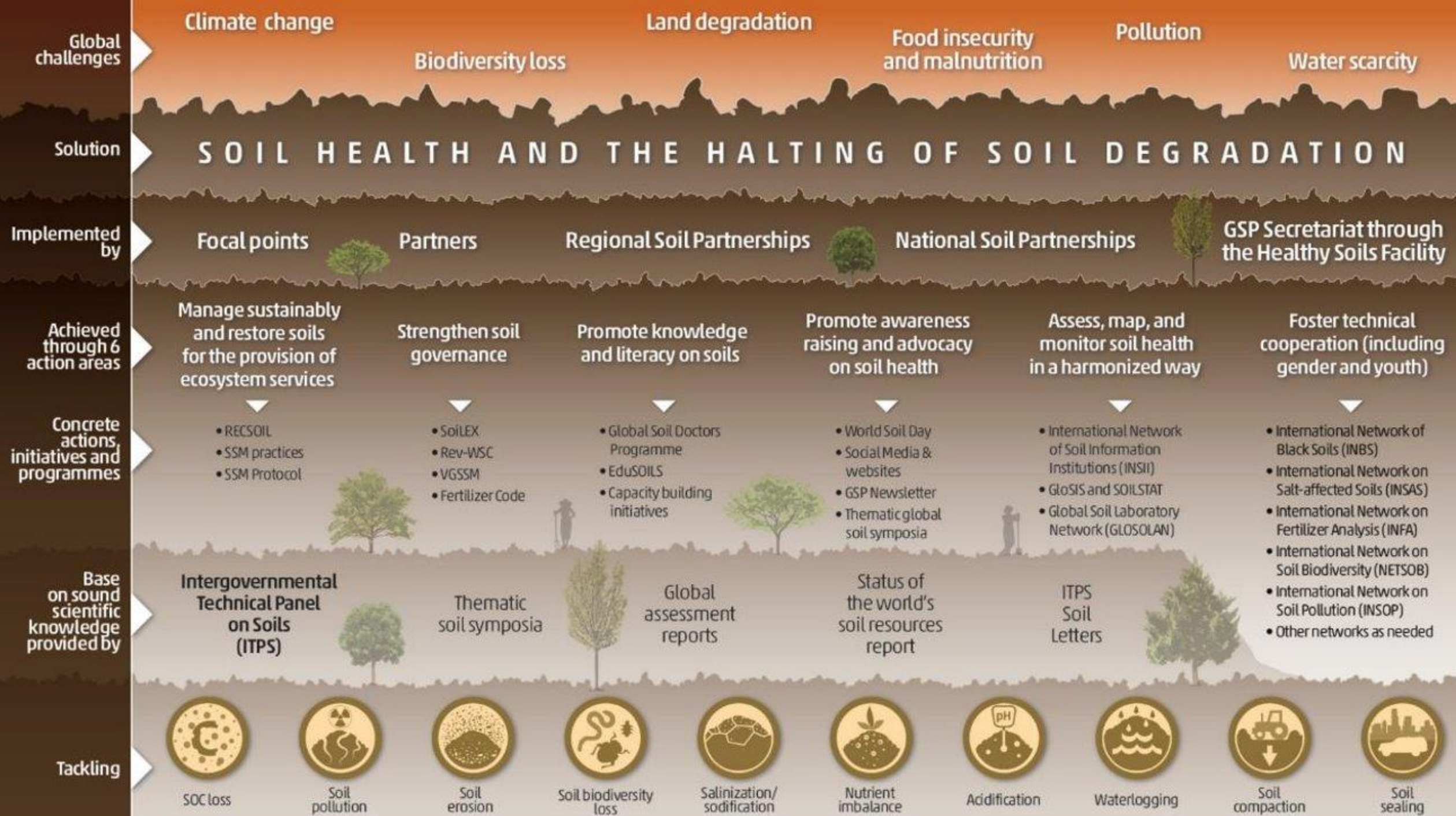
Yuxin Tong
Filippo Benedetti
Global Soil Partnership
FAO





- 164 focal points appointed directly by FAO Members and over 500 partners worldwide
- 7 regional partnerships
- 4 sub-regional partnerships within Europe: Eurasia, Alpine, Pyrenean, Western Balkans
- 14 national soil partnerships (Brazil, Colombia, Costa Rica, Cuba, Italy, Mongolia, Malawi, Nicaragua, Philippines, Portugal, Slovakia, Slovenia, Thailand, and Ukraine)





1

Assess, map, and monitor soil health in a harmonized way



- International Network of Soil Information Institutions (INSII)
- GloSIS and SOILSTAT
- Global Soil Laboratory Network (GLOSOLAN)



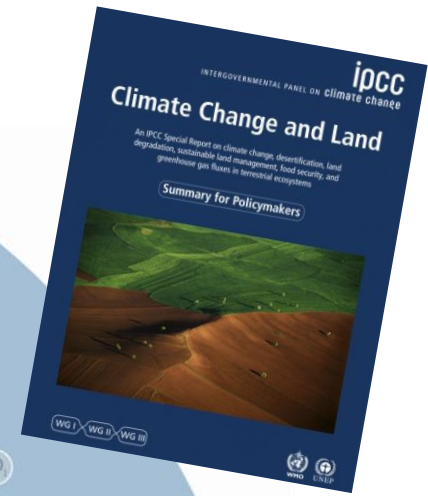
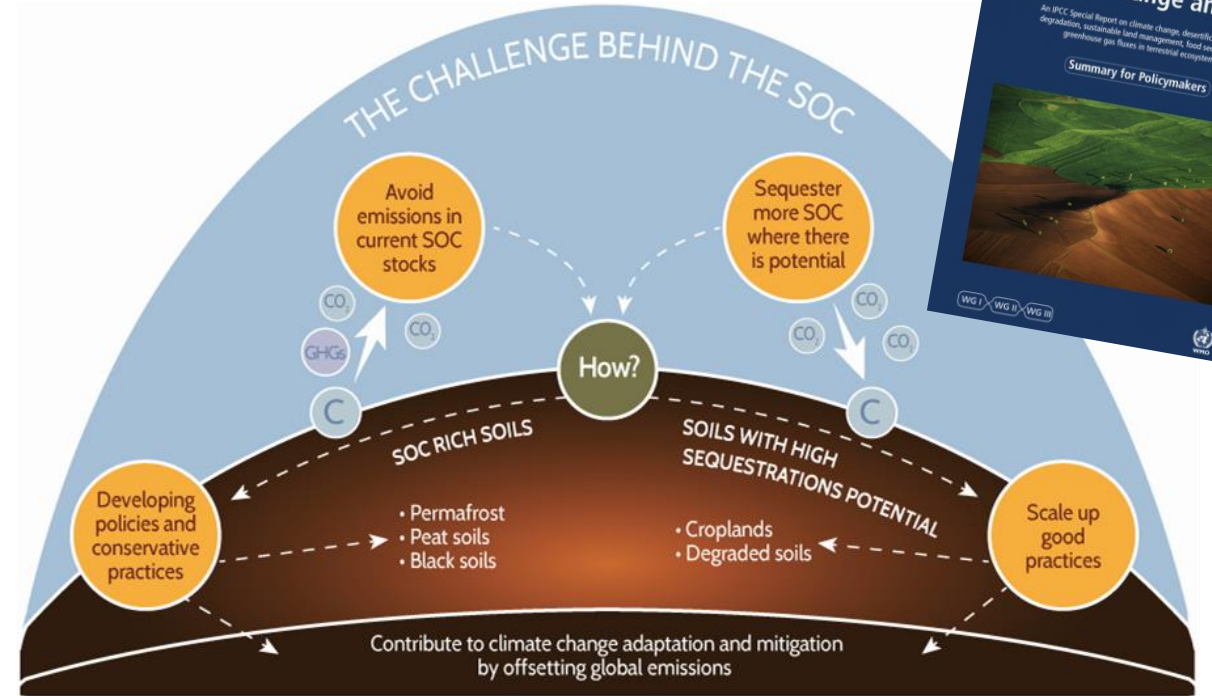
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2 Manage sustainably and restore soils for the provision of ecosystem services

▼

- RECSOIL
- SSM practices
- SSM Protocol



When adopting Sustainable Soil Management Practices, we provide multiple benefits including: reducing GHG emissions, maintaining and enhancing carbon sinks and building resilience.



3

Promote knowledge and literacy on soils

- Global Soil Doctors Programme
- EduSOILS
- Capacity building initiatives



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4

Foster technical cooperation (including gender and youth)



- International Network of Black Soils (INBS)
- International Network on Salt-affected Soils (INSAS)
- International Network on Soil Biodiversity (NETSOB)
- International Network on Soil Pollution (INSOP)
- Other networks as needed

INBS
International Network
of Black Soils



INSAS
International Network
of Salt-Affected Soils



INSII
International Network
of Soil Information
Institutions



NETSOB
International Network
on Soil Biodiversity



INSOP
International Network
On Soil Pollution



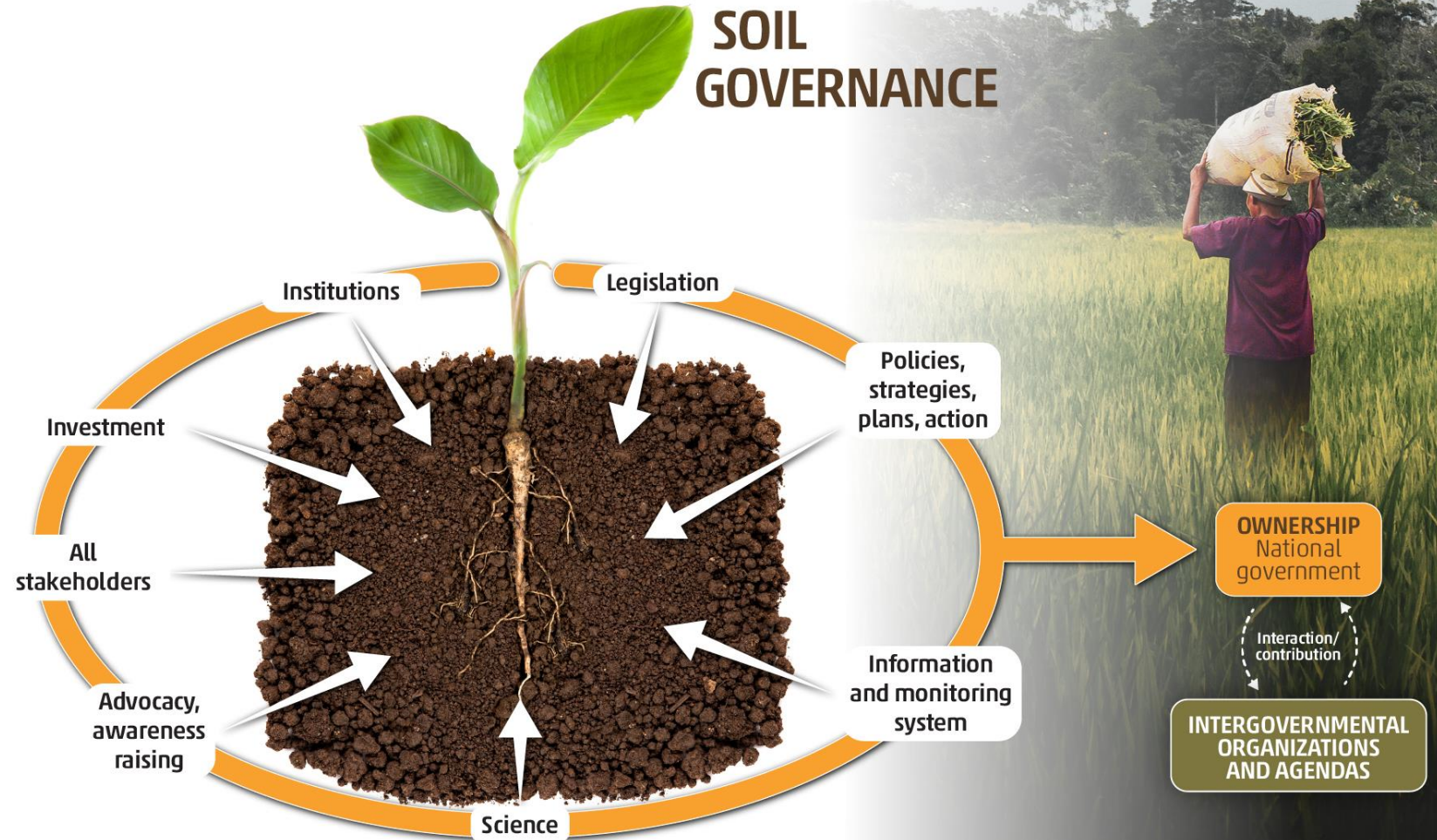
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5

Strengthen soil governance

- Soilex
- Rev-WSC
- VGSSM
- Fertilizer Code



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6

Promote awareness raising and advocacy on soil health



- World Soil Day
- Social Media & websites
- GSP Newsletter
- Thematic global soil symposia



+ articles in the main world newspapers

FAO, la mappatura dei nutrienti del suolo in America Centrale e nell'Africa sub-sahariana, per un uso più efficiente dei fertilizzanti



Investing in smallholder farmers

By DANIEL ESSIET — On Jul 27, 2022

ALARABIYA news

THE NATION

MIRAGE

entro il 2050 potrebbe essere a rischio il 90% del suolo fertile della Terra (VIDEO)

Fao e Global Soil Partnership promuoveranno la mappatura dei nutrienti del suolo in America centrale e nell'Africa subsahariana [28 Luglio 2022]

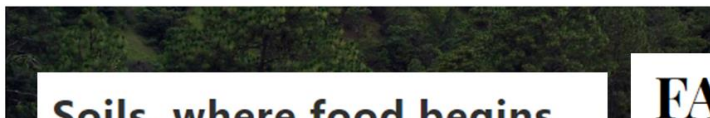
Il 95% del cibo globale viene prodotto nel suolo. I suoli hanno la capacità di immagazzinare, trasformare e riciclare i nutrienti dei quali gli esseri umani hanno bisogno per sopravvivere. Dei 18 nutrienti essenziali per le piante, 15 sono forniti dal suolo, se è sano. Secondo la Fao, è probabile che entro il 2050 sarà a rischio ben il 90% del prezioso terreno terrestre. Ogni 5 secondi nel mondo viene eroso suolo fertile per l'equivalente di un campo da calcio. Il problema è che ci vogliono circa mille anni per creare solo pochi centimetri di terreno.

Il **Global Symposium on Soils for Nutrition**, organizzato da Fao e Global Soil Partnership e che termina domani, sta discutendo proprio della fertilità dei suoli globali e dei modi per migliorare la disponibilità di nutrienti del suolo per le colture senza danneggiare l'ambiente. Il meeting è stato



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Global perspective Human stories

FAO warns 90 per cent of Earth's topsoil at risk by 2050



Soils, where food begins

FAO to boost soil nutrient mapping



nation relevant to soil analysis.

AlKhaleej Today

90% of Earth's topsoil at risk by 2050, FAO warns

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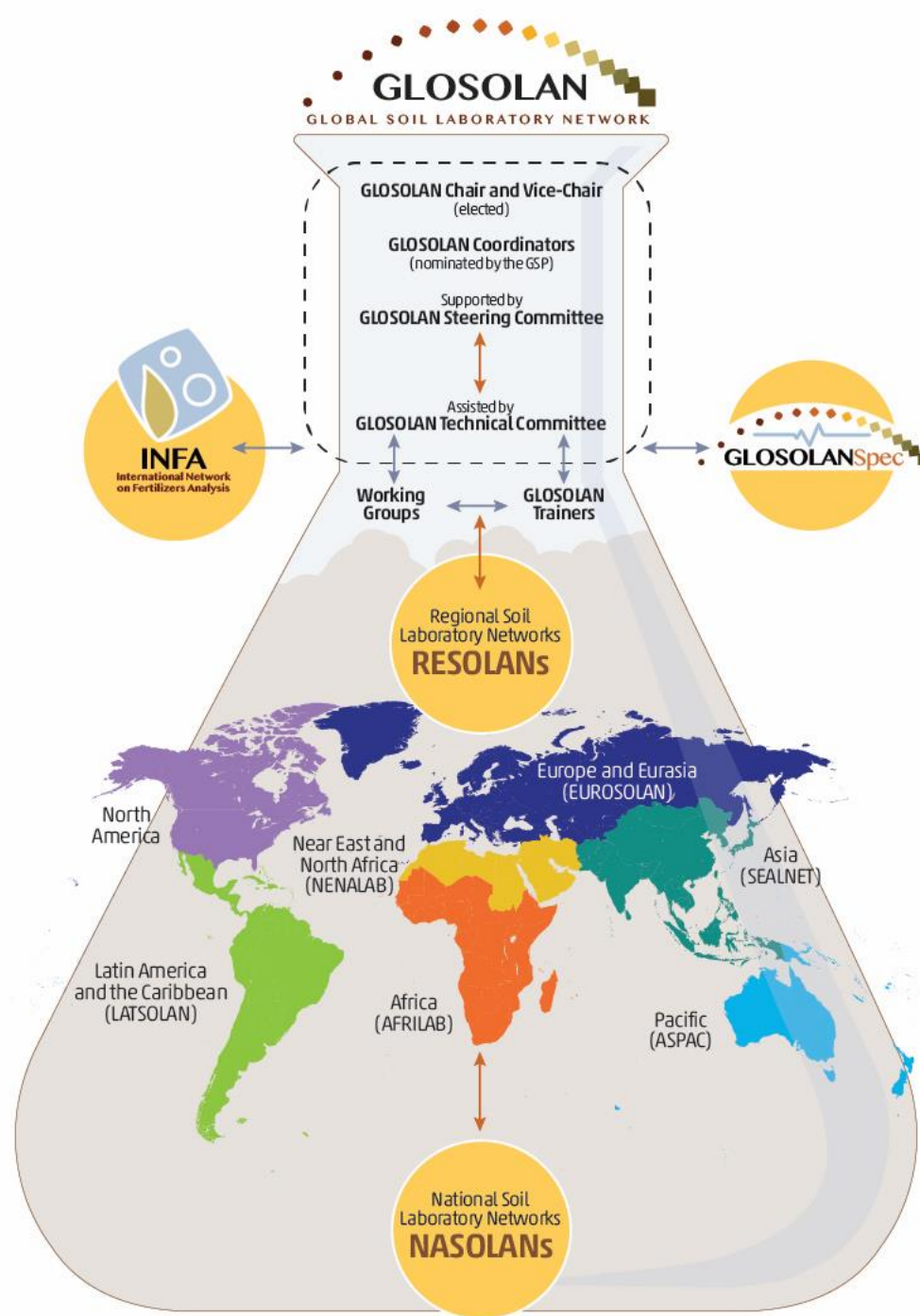
1. Assess, map, and monitor soil health in a harmonized way
2. Foster technical cooperation
3. Manage sustainably and restore soils for the provision of ecosystem service
4. Promote knowledge and literacy on soils
5. Strengthen soil governance
6. Promote awareness raising and advocacy on soil health.



**GLOBAL SOIL
PARTNERSHIP**

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We operate at all levels...

GLOBAL



REGIONAL



NATIONAL

...y Network (SEALNET) | 19-20 September 2023



What are we working on?

- 1) Harmonization of Standard Operating Procedures (SOPs)
- 2) Provision of trainings and prepare awareness raising material on different topics
- 3) Organization of inter-laboratory proficiency tests (PTs)
- 4) Collaboration with other networks (INFA, NETSOB, INSAS, INSOP, INBS)
- 5) Collection of soil import regulations worldwide ([SIMPLE Database](#))
- 6) Share laboratory capacities and needs with the scientific communities, including details on data quality

GLOSOLAN initiative on soil spectroscopy (GLOSOLAN-Spec)

Next activities



- Soil spectral hub (GSP/FAO)
- Guides to available soil spectral resources
(existing open-source soil spectral libraries and soil spectral estimation services)
- Publishing of Standard Operating Procedures for soil spectroscopy using NIR and MIR
- Expand capacity building- webinars, and technical document in additional languages.
Additional guides in the style of the primer
- Continue webinar series with spotlight on state-of-art, research and discussion

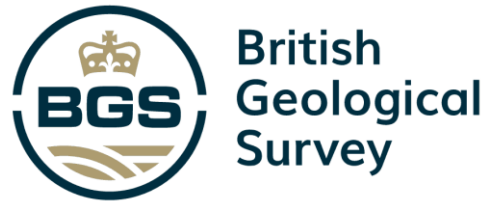
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Food and Agriculture
Organization of the
United Nations

The SEALNET logo consists of a series of colored squares and dots arranged in a curved path, transitioning from light brown to dark brown. Below the path, the text 'SEALNET' is written in a bold, black, sans-serif font, and 'ASIAN SOIL LABORATORY NETWORK' is written in a smaller, black, sans-serif font below it.

SEALNET
ASIAN SOIL LABORATORY NETWORK



*Thank you very much
for your attention!*

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