



Food and Agriculture
Organization of the
United Nations

GLOBAL SOIL PARTNERSHIP

WELCOMING PRESENTATION TO GSP NATIONAL FOCAL POINT

Promoting sustainable soil management for all



THE GLOBAL SOIL PARTNERSHIP (GSP)



 **WEBSITE:**

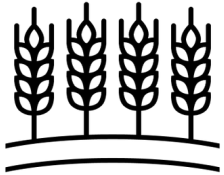
<http://www.fao.org/global-soil-partnership/en/>

Promoting sustainable soil management for all





GLOBAL SOIL PARTNERSHIP (GSP)



- A **MECHANISM** to develop an **interactive and responsive partnership** and **enhance collaboration** between all stakeholders;
- Common objective of **IMPROVING SOIL GOVERNANCE**, promoting **sustainable soil management** and putting soils on the **global agenda**;
- A **STRONG NETWORK** between policy makers, academia, land users, the private sector, civil society and all the stakeholders on soils;
- Working on **INVESTMENT AND TECHNICAL COOPERATION**, **institutional strengthening**, **capacity development** as well as **public awareness of soils**

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GSP MECHANISM AND MANDATE



GLOBAL SOIL
PARTNERSHIP

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- Improve **GOVERNANCE OF THE LIMITED SOIL RESOURCES** of the planet **to guarantee healthy and productive soils** for a **food secure world**.
- **SUPPORT OTHER ESSENTIAL ECOSYSTEM SERVICES**, in accordance with the **sovereign right of each State** over its natural resources.
- **RAISE AWARENESS** and contribute to the **DEVELOPMENT OF CAPACITIES**, building on the **BEST AVAILABLE SCIENCE**
- and **FACILITATE/CONTRIBUTE** to the **EXCHANGE OF KNOWLEDGE AND TECHNOLOGIES** among stakeholders for the sustainable management and use of soil.

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GSP and the key FAO governing bodies

FAO GOVERNING BODIES:

FAO CONFERENCE is the supreme governing body of FAO (194 member nations and one Member Organization (EU) 1 session per biennium

FAO COUNCIL (5 sessions per biennium) endorses proposals by COAG

COAG (1 session per biennium) reviews and appraises agricultural and nutritional topics; it is open to all FAO members

Most policy documents (with binding nature to FAO members are prepared by ad-hoc) **OPEN-ENDED WORKING GROUPS**, composed of **PERMANENT REPRESENTATIVES TO FAO**

COAG has reviewed the ToR of the GSP with special attention to institutional and policy implications, to prepare the final version for endorsement by the Programme Committee, and subsequently, the Council. The Latin American and Caribbean Group (GRULAC) was particular active.



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ESTABLISHMENT OF THE GSP

- At the 22nd Session of the **FAO COMMITTEE ON AGRICULTURE (COAG) (Rome, 16-19 Jun 2010)**, FAO was requested to establish the **Global Soil Partnership**.
- After preparatory work by FAO, a **meeting in Sep 2011 presented** to FAO Members and key stakeholders a **proposal** for the formal establishment of the GSP, and to obtain recommendations on the way forward.
- A **Technical Working Group** (composed of 76 voluntary members worldwide) worked for four months to prepare a draft of the **Terms of Reference (ToRs)** for the establishment of the GSP.
- **At the 145TH SESSION OF THE FAO COUNCIL (Rome, 3-7 December 2012)**, FAO Members concluded *“The Council approves the Terms of Reference of the **GLOBAL SOIL PARTNERSHIP** and **recommends the implementation of the initiative**”*.



WEBSITE:

www.fao.org/global-soil-partnership/about/why-the-partnership/en/



RELATED DOCUMENTS



[Approved GSP Terms of Reference](#) - **TOR**



[Background paper](#)



[FAO Council resolution](#)



[Rules of procedure](#) adopted by the 1st GSP Plenary Assembly in June 2013 - **ROP**



WEBSITE:

www.fao.org/global-soil-partnership/about/why-the-partnership/en/

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GSP TIMELINE

Food and Agriculture Organization of the United Nations

Global Soil Partnership
Sustainable Soil Development

GLOBAL SOIL PARTNERSHIP

timeline

2012

Land and Water Division
Aims to enhance the agricultural productivity and advance the sustainable use of land and water systems, promote equitable access to these natural resources in a context of complex agricultural transitions.

2013

Plenary Assembly
Involved parties: 1175 members, GSP Secretariat, FAO member countries, partner representatives.

The assembly oversees reviewing and prioritizing GSP actions and facilitating a balanced regional decision-making process.

2014

Soils Portal
The Soils Portal is a website designed to outsource global soil information and knowledge on the different components and aspects of soils and their also and importance of the resource.

2015

Global Soil Partnership
GSP is developed as a mechanism to strengthen the cooperation interaction and enhance collaboration. Promote sustainable soil management in all land uses and in all regions of the world.

2015

Status of World Soil Report (SWSR)
The SWSR contains peer-reviewed information on the status of global soil resources that provides regional assessments of soil change. It provides a description and a ranking of ten major soil threats that endanger ecosystems, functions, goods, and services globally and in each region separately.

Revised World Soil Charter (WSC)
The WSC was a major normative instrument created in the contribution of the 130 member countries. GSP's main duty is to promote the 13 principles listed in the charter and keep the documents up to date for further revision in the light of new scientific knowledge gained over time.

2016

Glinka World Soil Prize
An annual award addressed to GSP members, individuals or organizations committed to solve acute national, regional or local problems of soil degradation.

2017

Guidelines for Sustainable Soil Management (VGSSM)
GLOSIS aims to build a country-driven approach, the improvement of soil information on the global level indicates that is directly affected by information extracted at a national level. Therefore, with the support of INSI, the information extracted at national level is accurate to be considered for the global system.

2018

Black Soils (INBS)
INBS provides a platform for knowledge sharing for countries with black soils. It discusses common threats related to the conservation and sustainable management of black soils and the need to foster technical exchange and cooperation.

2019

Global Soil Organic Carbon Map (GSOCmap)
GSOCmap is the first global soil organic carbon map produced under the guidance of the Intergovernmental Technical Panel on Soils and the Global Soil Partnership Secretariat through a consultative and participatory process involving member countries.

Global Symposium
The Global Symposium brings the United Nations' organizations and academia together to simultaneously discuss policy and the scientific aspects in relation to climate change and food security.

GS themes:

- Soil Organic Carbon (2017)
- Pollution (2018)
- Erosion (2019)
- Biodiversity (2020)
- Fertility (2021)

2020

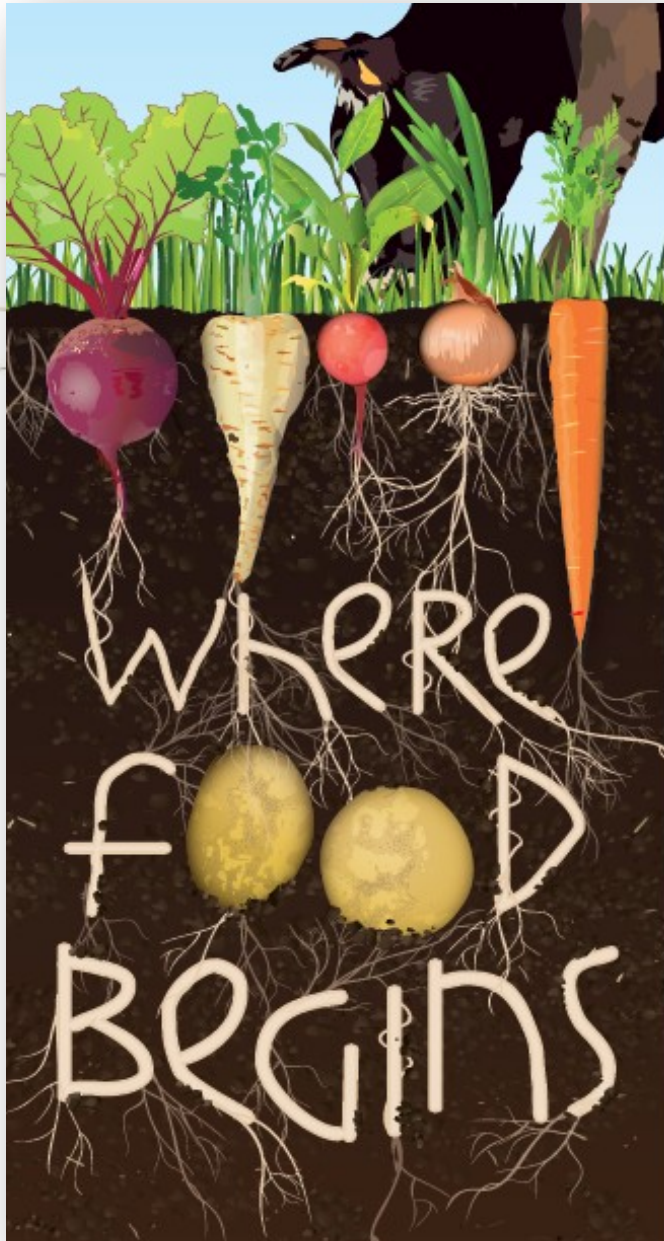
Global Soil Salinity Map (GSSmap)
GSSmap is produced through the cooperation of member countries whereby developed a system to conduct accurate country-level data for national soil salinity mapping, which contributes to the global soil salinity map.

International Code of Conduct for the sustainable use and management of fertilizers
The International Code of Conduct for the Sustainable Use and Management of Fertilizers was implemented to increase food safety and safe use of fertilizers. It was created upon the request of COAG and the response of the Third UNFPA declaration on soil pollution. It provides a locally adaptable framework and a voluntary set of practices to serve different stakeholders involved with fertilizers.

2021

Soil Doctors program
The Global Soil Doctors programme is a farmer-to-farmer training initiative to be implemented at the global level on a voluntary basis. SD contribute to their community through the guidance and resources provided by Global Soil Partnership.

TIMELINE WILL BE UPDATED SOON, MATTEO IS WORKING ON IT



The SOIL TOPIC

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In 2011, Soil was not in the decision making agenda

BUT SOIL is

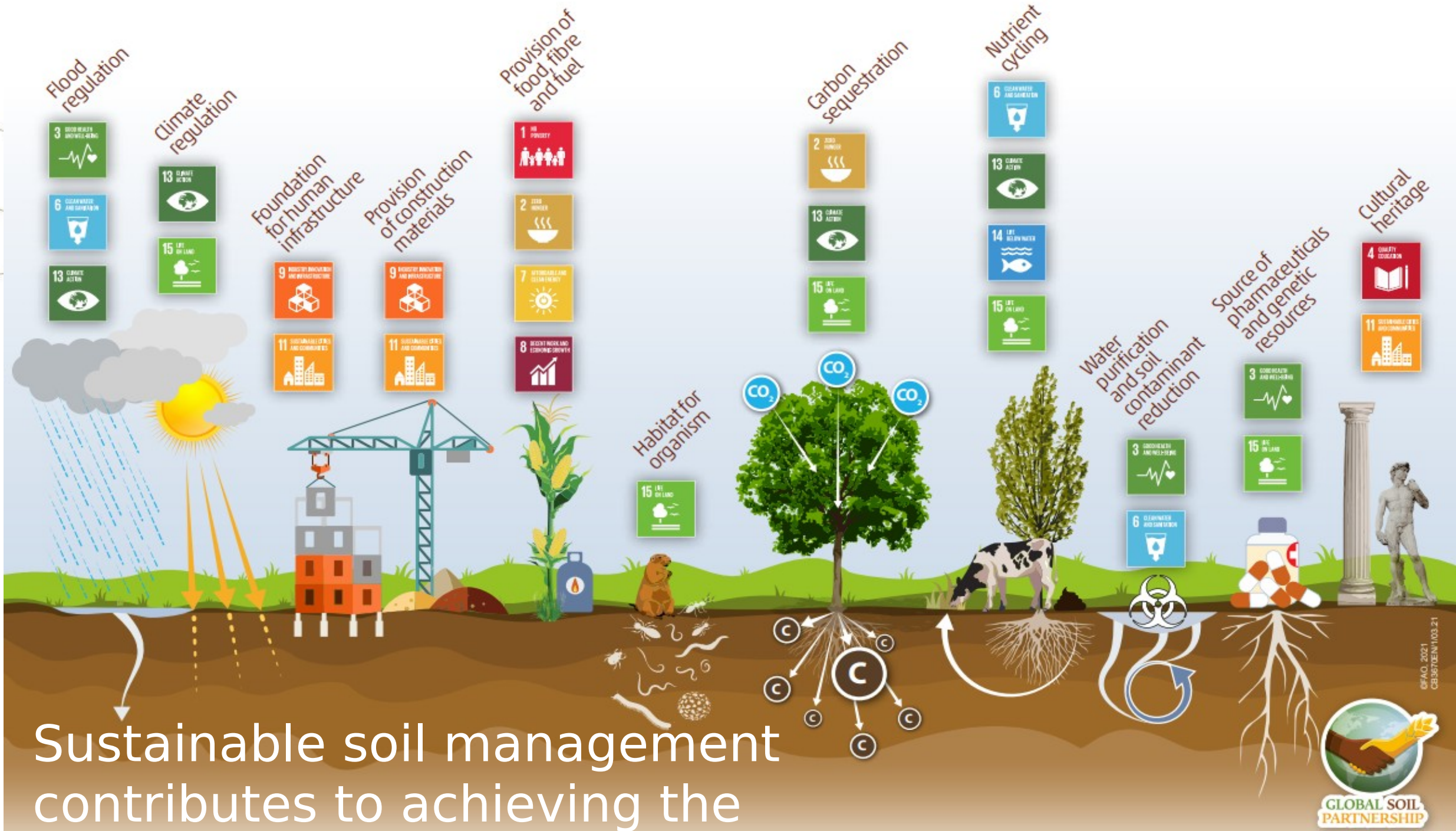
- a hidden resource
- not renewable in a human time scale

AND it delivers a myriad of ecosystem services that enable life

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

Promoting sustainable soil

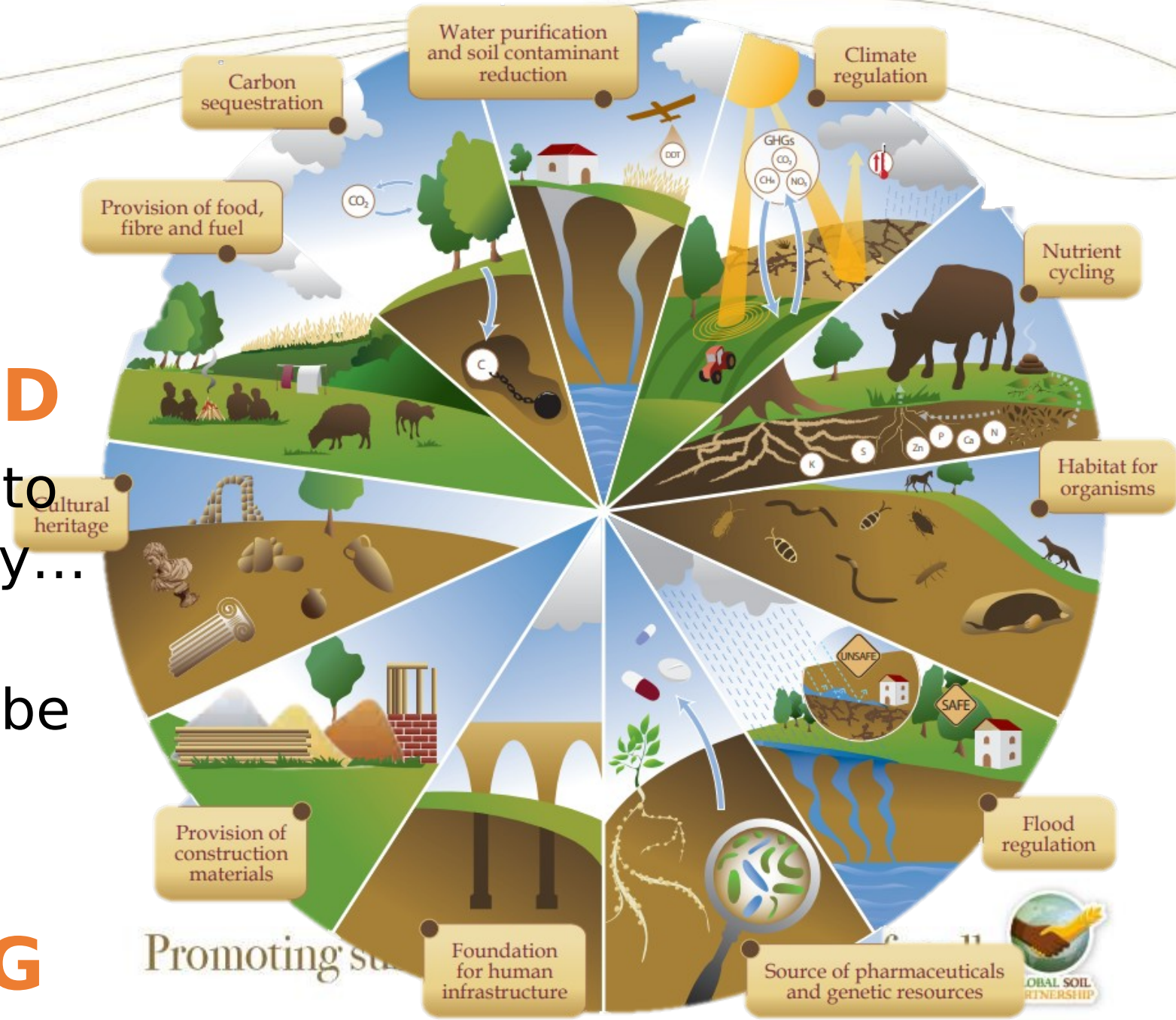




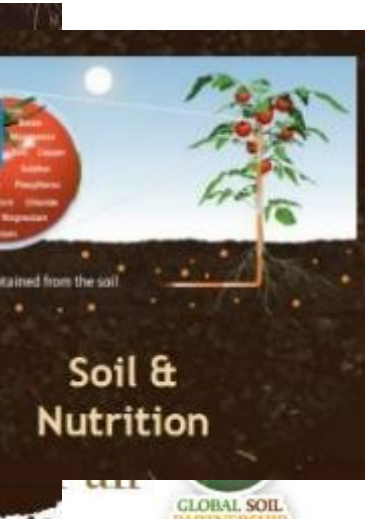
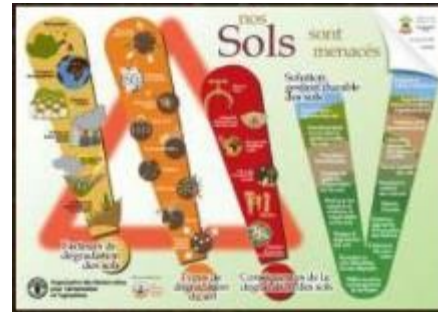
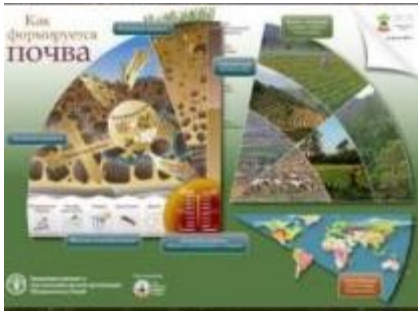
Sustainable soil management contributes to achieving the

National Soil Science societies & soil scientists **GATHER KNOWLEDGE ABOUT SOILS** to manage them sustainably...

... **BUT** soils need to be integrated **INTO POLICY AND DECISION MAKING**

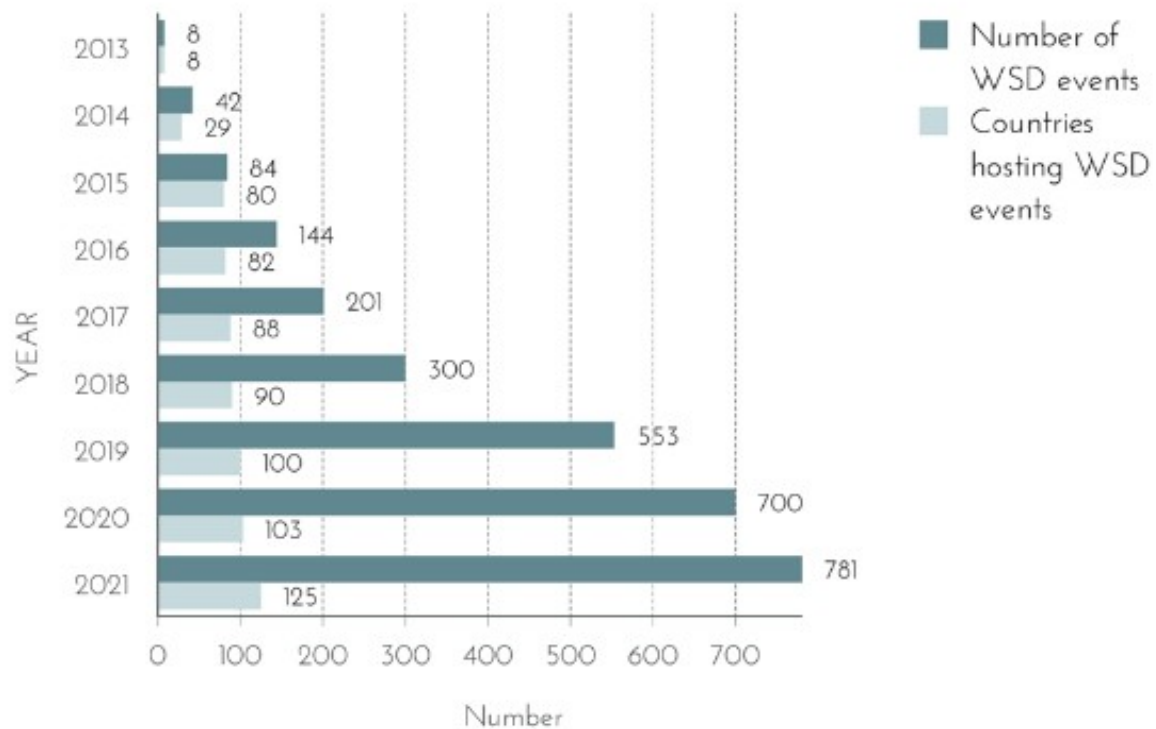


AWARENESS RAISING



WORLD SOIL DAY 2021 - KEY FIGURES

Number of Events: 2013-2021



Number of events and countries that took part into WSD celebrations per year (2013-2021)



1.15 billion users hit and 630 articles



Over 330 million social media accounts reached



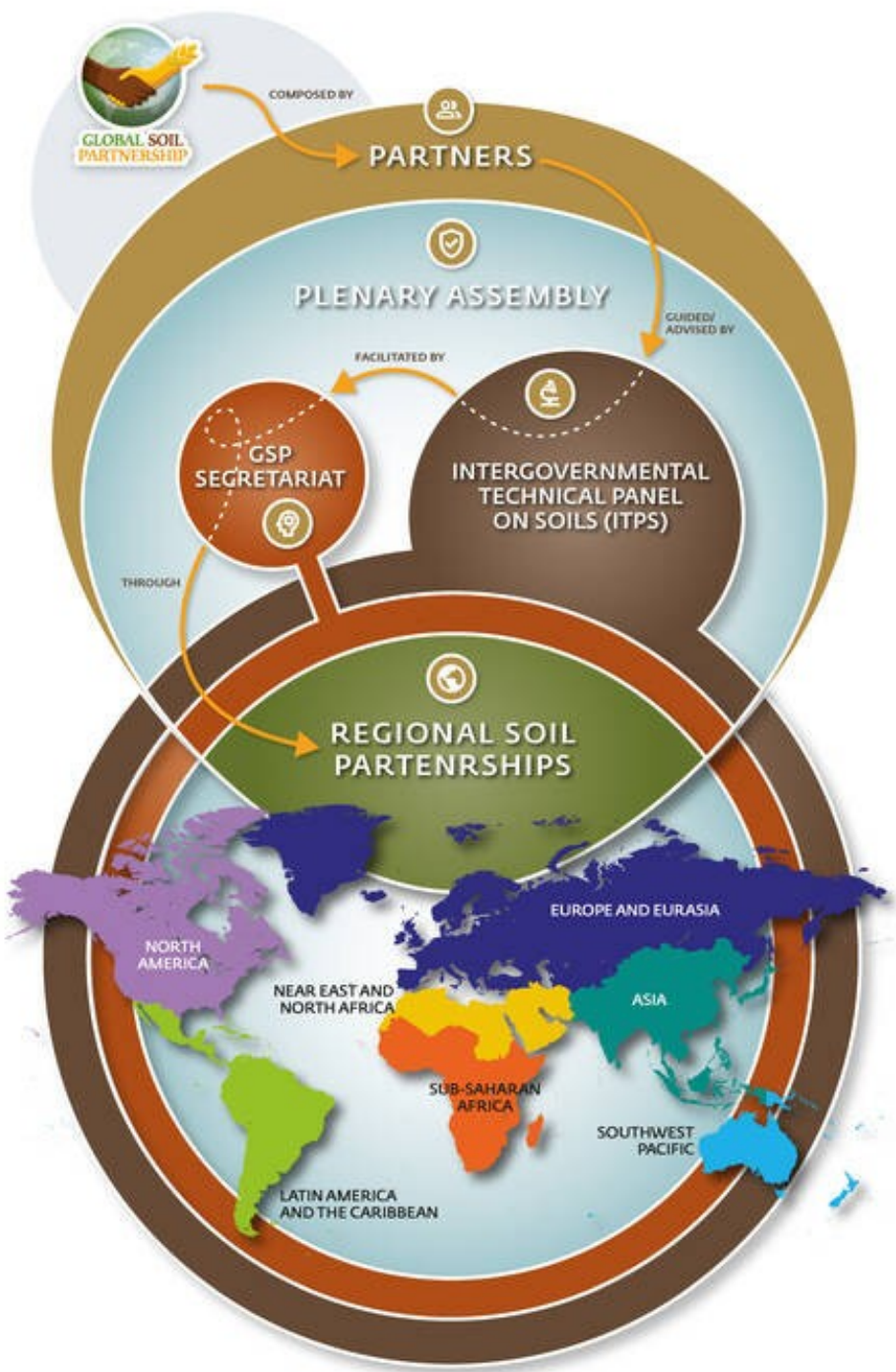
+ Material translated in 27 languages and thousands download of campaign material



3 millions page views on fao.org

781 events in 125 countries

<http://www.fao.org/world-soil-day/campaign-materials/en>



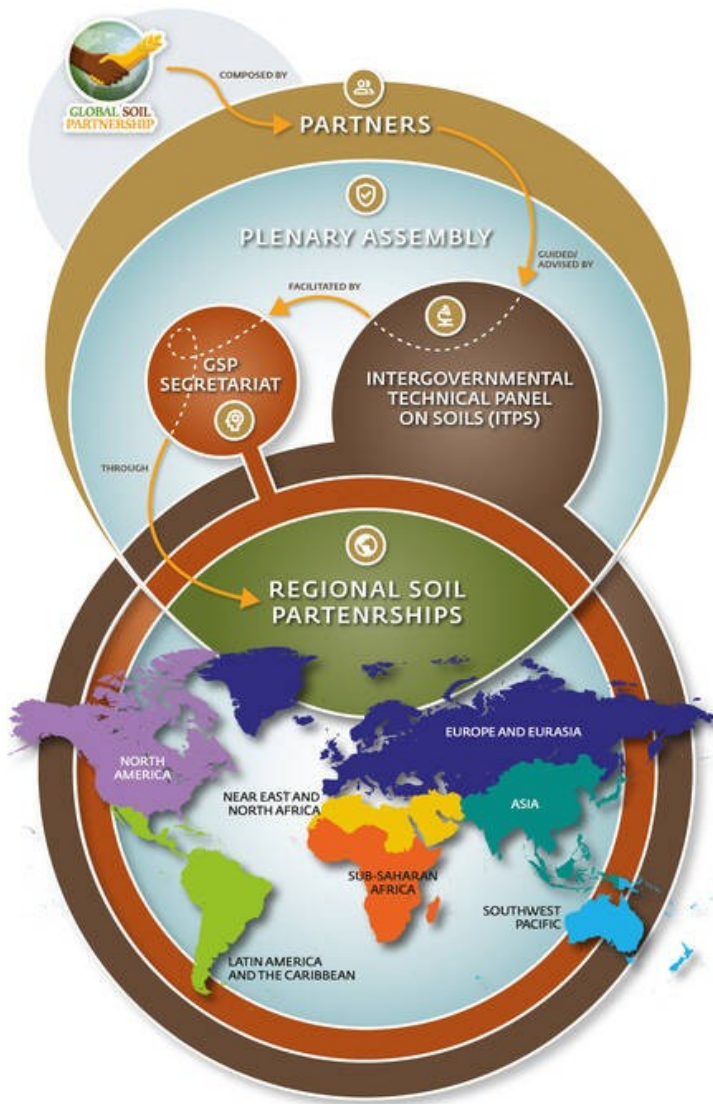
GSP COMPOSITION & GOVERNANCE

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GSP COMPOSITION AND GOVERNANCE



(1) The **GSP PLENARY ASSEMBLY (PA)** constitutes the main **decision making body of the GSP**. It embraces all the GSP partners in a yearly meeting to review and prioritize GSP actions.

(2) The **INTERGOVERNMENTAL TECHNICAL PANEL ON SOILS (ITPS)**. 27 Experts providing **scientific and technical advice** on global soil issues to the GSP

(3) **7 REGIONAL SOIL PARTNERSHIPS** and about **20 NATIONAL SOIL PARTNERSHIPS**. RSPs and NSPs are established among interested and active stakeholders in the regions/countries and are responsible for an **interactive consultative process** with relevant national/regional soil entities institutions including FAO Offices

(4) The **GSP SECRETARIAT**, hosted by FAO in Rome is the **coordination body** in charge of facilitating the implementation of the GSP actions.



GSP AREAS OF WORK



**AWARENESS
RAISING**



**SOIL
BIODIVERSIT
Y**



**CAPACITY
DEVELOPMENT**



**SOIL
POLLUTION**



**SOIL
GOVERNANCE**



**SOIL ORGANIC
CARBON**



**SOIL
SALINIZATIO
N**



**SOIL
FERTILITY**



**SOIL
EROSION**



**SOIL DATA AND
INFORMATION**

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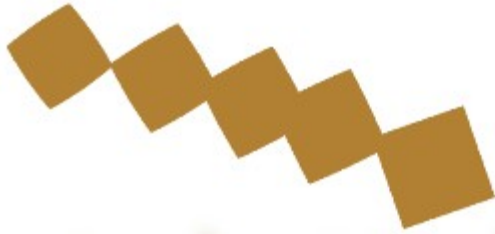


GLOBAL SOIL
PARTNERSHIP

GSP TECHNICAL NETWORKS

GLOSOLAN

Global Soil Laboratory
Network



INBS

International Network
of Black Soils



INFA

International Network
on Fertilizer Analysis



INSAS

International Network
of Salt-Affected Soils



INSII

International Network
of Soil Information
Institutions



NETSOB

International Network
on Soil Biodiversity



soil management for all



The GSP Partners



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ADHERING TO THE GSP PARTNERSHIP

- The **GSP partnership** is a **VOLUNTARY INITIATIVE** and **does not create any legally binding rights or obligations** for its partners or for any other entities under domestic or international law. **EACH FAO MEMBERS AND PARTNERS** individually **DETERMINE THE NATURE OF ITS PARTICIPATION.**
- The GSP is based on the **PRINCIPLES OF EQUITY AND BALANCE** of constituencies. It relies on the spirit of **MUTUAL TRUST AND OPEN DIALOGUE**, as well as on collaboration amongst multiple stakeholders for the **achievement of its goals.**
- There is **NO MINIMUM REQUIRED CONTRIBUTION** to join the GSP, only to commit to its spirit and **shared values** in any related communication.
- **Partners must respect** the **GOVERNANCE RULES** that the GSP Partnership has established or may establish in the future through its governing bodies.

✉ **EMAIL: GSP-Secretariat@fao.org**

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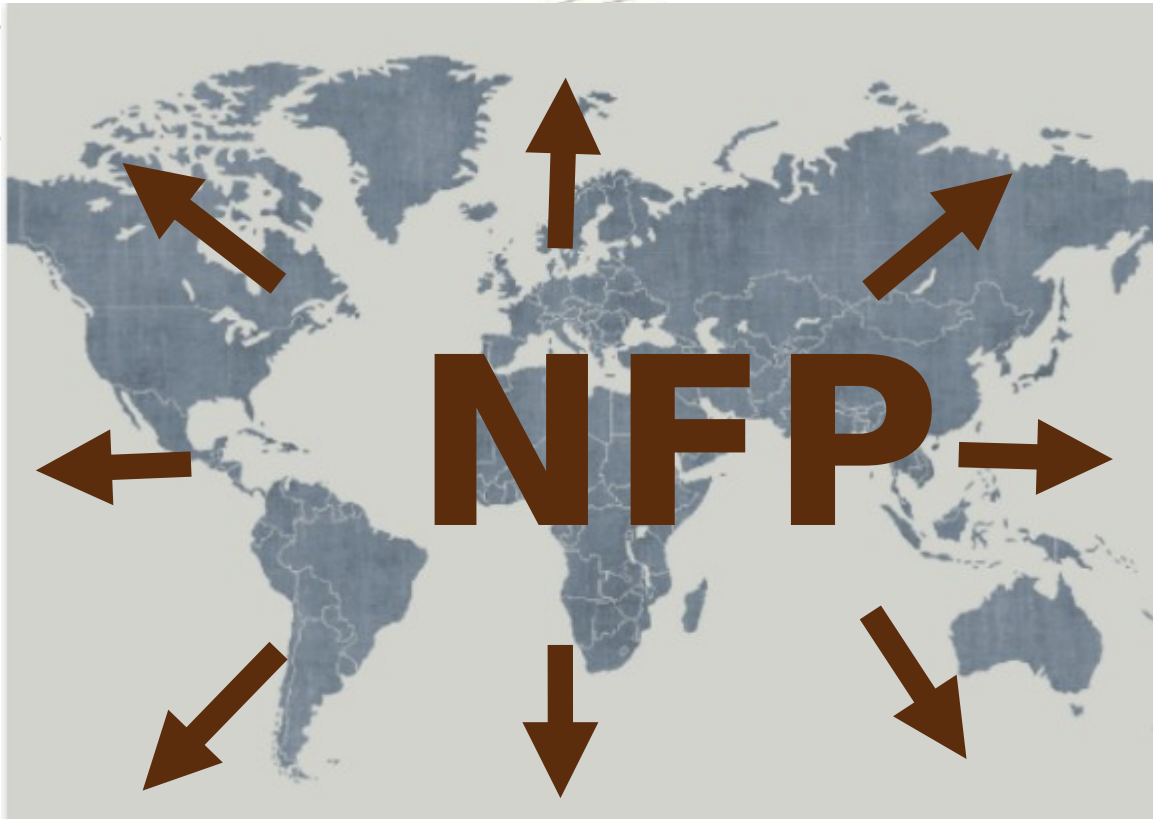


THE GSP PARTNERS

- **194 FAO MEMBER NATIONS, 2 ASSOCIATE MEMBERS** and one member organization, the **EUROPEAN UNION**.
- **168 NATIONAL FOCAL POINTS** working on soil at national level appointed directly by FAO Members (**7 Regional Soil Partnerships**)
- **OVER 400 GSP PARTNERS** worldwide ranging from academia NGOs, CSOs, and soil institutes to private companies, farmer associations and extension services. **Share & Fill**  [this form](#) to become a **GSP partner!**
- A wide range of experts contributing with their technical knowledge to **AD-HOC WORKING GROUPS AND TECHNICAL NETWORKS** on soil organic carbon, soil pollution, soil erosion, soil biodiversity, soil salinity, soil legislation, etc.



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



The NATIONAL FOCAL POINTS

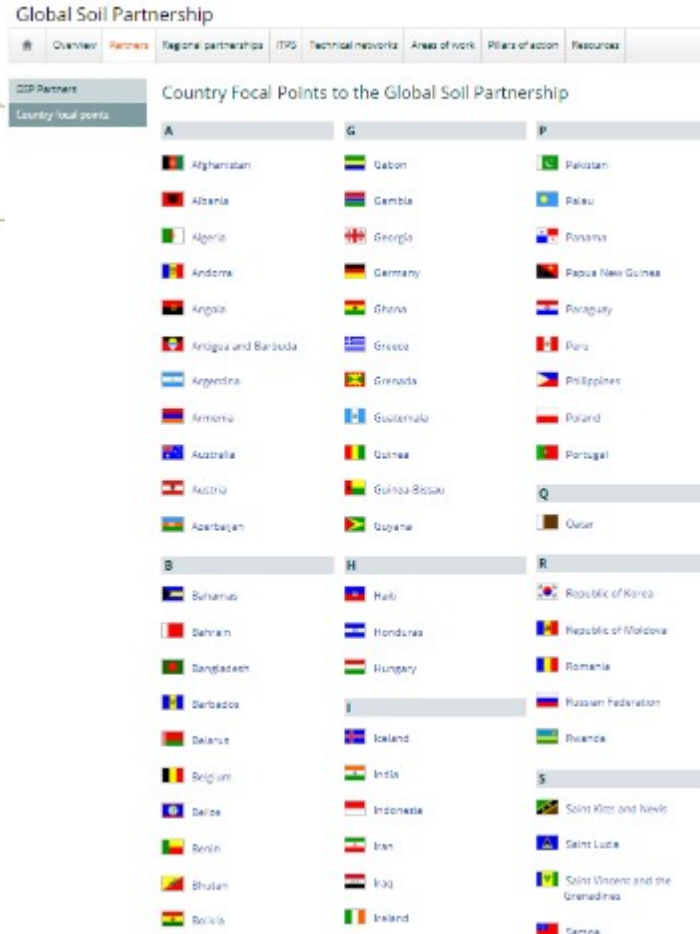
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Bring national priorities into global discussion and engage all national stakeholders

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GSP NATIONAL FOCAL POINTS (NFPs): BACKGROUND



- The **2ND SESSION OF THE GSP PA** (Jun 2014) endorsed the proposal by FAO Members to nominate **GSP NATIONAL FOCAL POINTS (NFPs)**, in order to enhance communication and technical exchanges with the GSP Secretariat at working level.
- The **Secretariat** prepared the document **GSP PA II/2014/5** to facilitate the provision of clarification and guidance to national competent authorities about the roles and tasks of a **NFPs to the GSP**.
- The **information is drawn from working practices** since the start of the GSP, as well as **key documents** stipulating roles of focal points, such as:



GSP PA II/2014/5
<http://www.fao.org/3/mk645e/mk645e.pdf>



WEBSITE:

<http://www.fao.org/global-soil-partnership/partners/country-focal-points/en/>

GSP PA REPORT: <http://www.fao.org/3/ml156e/ml156e.pdf>

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WHAT IS A NFPs?



- A **NATIONAL FOCAL POINT** is officially appointed by each FAO Member to **enhance the communication with the GSP Secretariat.**
- **CONTACT INFORMATION** of the designated focal point includes as a minimum:
 - (1) Name and title**
 - (2) Institution and position**
 - (3) Postal address**
 - (4) Email**

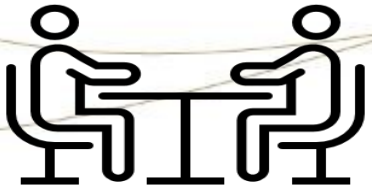
ALERT US in case of a change of focal point!

✉ **EMAIL: GSP-Secretariat@fao.org**

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HOW IS A NFP NOMINATED?

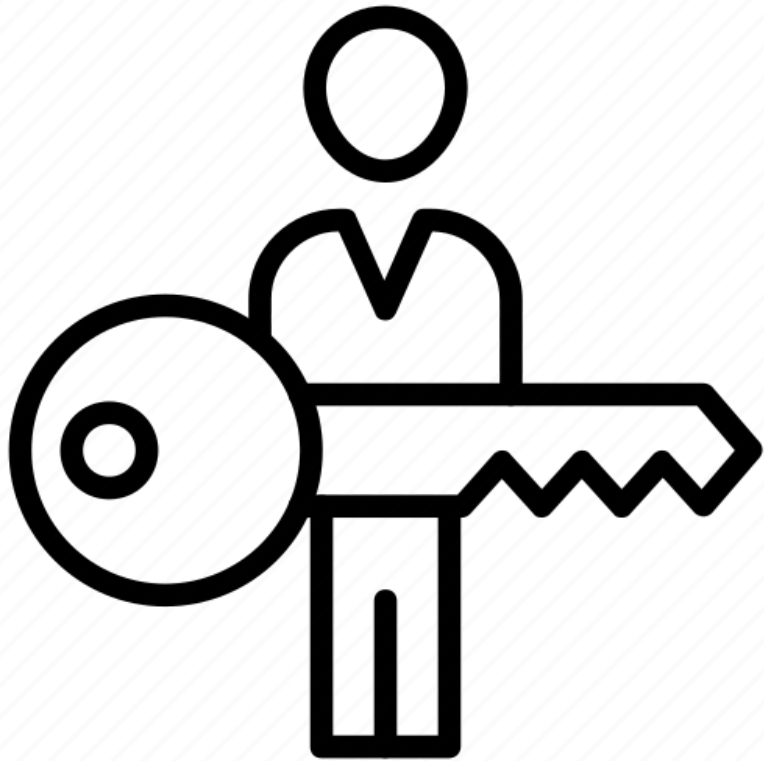


- Through a **FORMAL COMMUNICATION** to the GSP Secretariat made by the:
 - (1) Minister;**
 - (2) Head of Department;**
 - (3) Permanent Representation to FAO**
- A country can nominate **ONE FOCAL POINT** and **EVENTUALLY ONE ALTERNATE**, e.g. from different competent authorities or different levels of administration (state, federal).
- Preferably, focal points should be **SENIOR GOVERNMENT OFFICIALS** (e.g. Ministry of Agriculture) dealing with **soil management and conservation matters**.

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NFPs HAVE A KEY ROLE



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NFPs HAVE A KEY ROLE TO...

- **PROMOTE SUSTAINABLE MANAGEMENT**



Revised World Soil Charter

JUNE 2015

Actions by Governments

SOIL

I. Promote sustainable soil management that is relevant to the range of soils present and the needs of the country.

II. Strive to create socio-economic and institutional conditions favourable to sustainable soil management by removal of obstacles. Ways and means should be pursued to overcome obstacles to the adoption of sustainable soil management associated with land tenure, the rights of users, access to financial services and educational programmes. Reference is made to the Voluntary Guidelines on the Responsible Governance of Tenure of Land, Forests and Fisheries in the Context of National Food Security adopted by the Committee on World Food Security in May 2012.

III. Participate in the development of multi-level, interdisciplinary educational and capacity-building initiatives that promote the adoption of sustainable soil management by land users.

IV. Support research programmes that will provide sound scientific backing for development and implementation of sustainable soil management relevant to end-users.

V. Incorporate the principles and practices of sustainable soil management into policy guidance and legislation at all levels of government, ideally leading to the development of a national soil policy.

VI. Explicitly consider the role of soil management practices in planning for adaptation to and mitigation of climate change and maintaining biodiversity.

VII. Establish and implement regulations to limit the accumulation of contaminants beyond established levels to safeguard human health and wellbeing and facilitate remediation of contaminated soils that exceed these levels where they pose a threat to humans, plants, and animals.

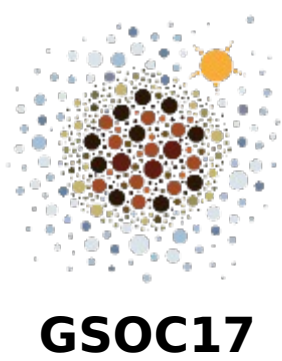
VIII. Develop and maintain a national soil information system and contribute to the development of a global soil information system.

IX. Develop a national institutional framework for monitoring implementation of sustainable soil management and overall state of soil resources.

Promoting

NFPs HAVE A KEY ROLE TO...

- **SHARE AND DISTRIBUTE RELEVANT COMMUNICATIONS, INFORMATION MATERIAL, INVITATIONS** to meetings and consultations to the most appropriate government authorities and/or national institutions



Promoting sustainable soil management for all



NFPs HAVE A KEY ROLE TO...

- **CONSOLIDATE REGIONAL SOIL PARTNERSHIPS** in all geographic regions



3rd African SP plenary, Rome, 2018



6th European SP plenary, Rome, 2019



5th NENA SP plenary, Cairo, 2019



5th Eurasian SP plenary, Chisinau, 2019



6th Asian SP plenary, virtual, 2021



6th LAC SP plenary, Quito, 2019



NFPs HAVE A KEY ROLE TO...

- **BRING ALL ACTORS** at national level **together**;
- **ACT AS A CONTACT PERSON** in the country;
- **ENSURE COORDINATION** among the different national stakeholders dealing with soils



NFPs HAVE A KEY ROLE TO...

- **PARTICIPATE INDIRECTLY IN THE ITPS'S WORK**, including the setting up and promotion of **working groups dealing with soil topics**

itps

INTERGOVERNMENTAL
TECHNICAL PANEL ON SOILS



NFPs HAVE A KEY ROLE TO...

- PROMOTE THE GSP TOOLS, PRIORITIES AND ACTIVITIES at country level



AWARENESS RAISING



SOIL BIODIVERSITY



CAPACITY DEVELOPMENT



SOIL POLLUTION



SOIL GOVERNANCE



SOIL ORGANIC CARBON



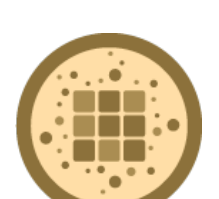
SOIL SALINIZATION



SOIL FERTILITY



SOIL EROSION



SOIL DATA AND INFORMATION



Soil Doctors

Farmer-to-farmer programme

[Learn More](#)



RECSOIL

Recarbonization of global soils: from farmers to the market

[Learn More](#)



SoiLEX

Soil legislation search engine

[Learn More](#)



Capacity development

SOC sequestration potential and soil salinity trainings

[Learn More](#)

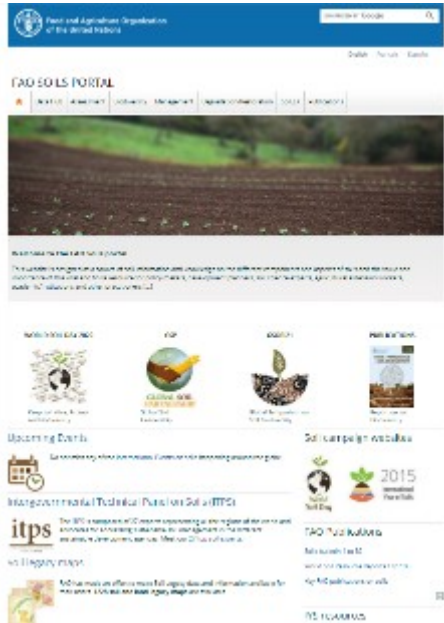


NFPs HAVE A KEY ROLE TO...

- PROMOTE THE WEALTH OF RESOURCES AVAILABLE** at country-level



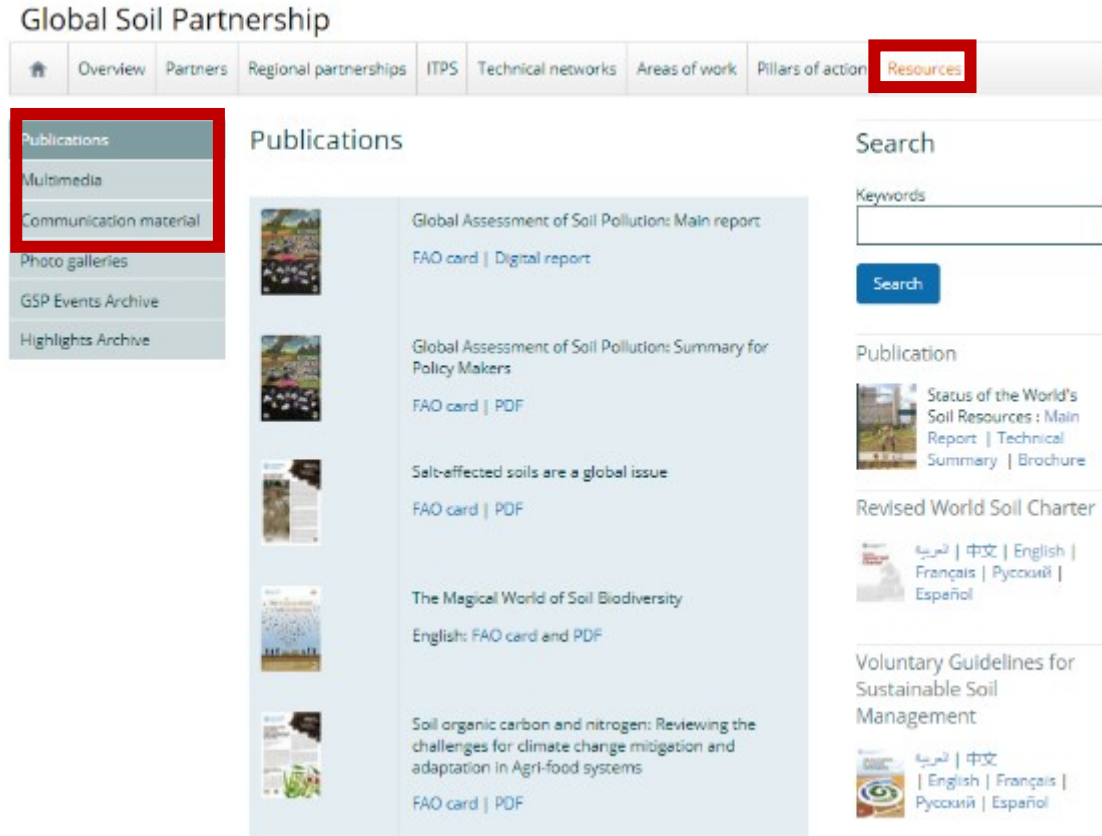
Global Soil Partnership



Soils Portal



World Soil Day



GSP Resources

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NFPs HAVE A KEY ROLE TO...

- **ACT AS A BRIDGE AND SHARE MATERIAL**

WEB AND SOCIAL MEDIA



Facebook



LinkedIn



Slideshare



Flickr



Youtube

Global Symposium on Soil Biodiversity

Global Symposium on Soil Erosion

Global Symposium on Soil Pollution

Global Symposium on Soil Organic Carbon

Soils Portal

World Soil Day

International Year of Soils

NEWS, PUBLICATIONS, EVENTS



EVENTS

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PUBLICATIONS

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NEWS

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Facebook: @globalsoilpartnership

Twitter: @vargasfao @UNFAO

LinkedIn:

[linkedin.com/in/ronald-vargas-06283917](https://www.linkedin.com/in/ronald-vargas-06283917)

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RESOURCES

Relevant websites:

- [Global Soil Partnership](#)
- [Soils Portal](#)
- [World Soil Day](#)
- [Global Symposium on Salt-affected Soils](#)
- [Global Symposium on Soil Biodiversity](#)
- [Global Symposium on Soil Erosion](#)
- [Global Symposium on Soil Pollution](#)
- [Global Symposium on Soil Organic Carbon](#)
- [International Year of Soils](#)

Publications:

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

Events

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

Communication material:

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

Multimedia:

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

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NFPs HAVE A KEY ROLE TO...

- **IDENTIFY POTENTIAL NEW PARTNERS** in his/her own country & liaise with them



Become a GSP partner!

<https://docs.google.com/forms/d/e/1FAIpQLScwVzuXR3wcnokqXhC0bpLSAgoP1ZJgOIRe8tYgOPd8YvTrQ/viewform>



Subscribe to the newsletter!

http://fao.msgfocus.com/k/Fao/subscription_form_example_globalsoil

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NFPs HAVE A KEY ROLE TO...

- **FACILITATE THE GSP IMPLEMENTATION AND AWARENESS-RAISING ACTIVITIES / ACTIONS / CONTESTS**

with national counterparts

INVOLVE ALL ACTORS OF YOUR COUNTRY IN THE WSD

CELEBRATIONS



NFPs HAVE A KEY ROLE TO...

- **PROMOTE** the two key World Soil Day Awards/Prizes



**Medal and
USD 15 000 prize**

**EACH YEAR:
CALLS OPEN LATE JUNE
CLOSES EARLY SEPTEMBER**

**HONORS INDIVIDUALS OR
ORGANIZATIONS
COMMITTED TO SOLVING
NATIONAL, REGIONAL OR
LOCAL PROBLEMS OF
SOIL DEGRADATION**



**BEST CELEBRATION
HELD IN THE
FRAMEWORK OF THE
PREVIOUS YEAR'S
COMMUNICATION
CAMPAIGN**

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NFPs ARE ALSO INVITED TO...

REVERSE FLOW OF INFORMATION

- Signal to the GSP Secretariat **RELEVANT DEVELOPMENTS** taking place or expected to take place in their country
- **IDENTIFY NATIONAL OPPORTUNITIES** where GSP initiatives and local voices on soils could be represented
- ... which in turn could have implications for **ENHANCED COOPERATION** within the GSP framework

NFP



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THE ROLE OF NFPS IN THE INTERNATIONAL SCENE

NFPS IN FAO

- Encourage the **establishment of National Soil Partnership**
- Make sure that **all areas of work related to soils** and of interest of their Member nation/organization **are handled effectively**.
- **Liaise with national delegations** (if needed) and put soils higher in the national and regional agendas.
- **Track the flow of information** and report to the GSP Secretariat in case of any significant developments in the national or regional spheres.
- **Support** the Global Soil Partnership to implement its **Strategic Global Soil Partnership Action Framework 2022-2030**

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THE ROLE OF NFPs IN THE INTERNATIONAL SCENE

PROMOTING FOR THE INCLUSION OF SOILS IN:

- **NATIONAL FRAMEWORKS:** Country Programming Frameworks (CPFs) are agreed between FAO and country. They set out national priority areas within the FAO mandate that guide FAO and support the national government - bringing together innovative international best practices and global standards with national and regional expertise during a five-year period.
- **NATIONAL COMMITMENTS ON SDGs RELATED TO SOILS**
- **INTERNATIONAL CONVENTIONS** i.e. United Nations Convention to Combat Desertification (UNCCD) and its COP15 (May-October 2022, at a venue to be confirmed), United Nations Framework Convention on Climate Change (UNFCCC) - and its COP26 (Glasgow, 31 October-12 November 2021). Stockholm, Basel and Rotterdam Conventions, and many others.

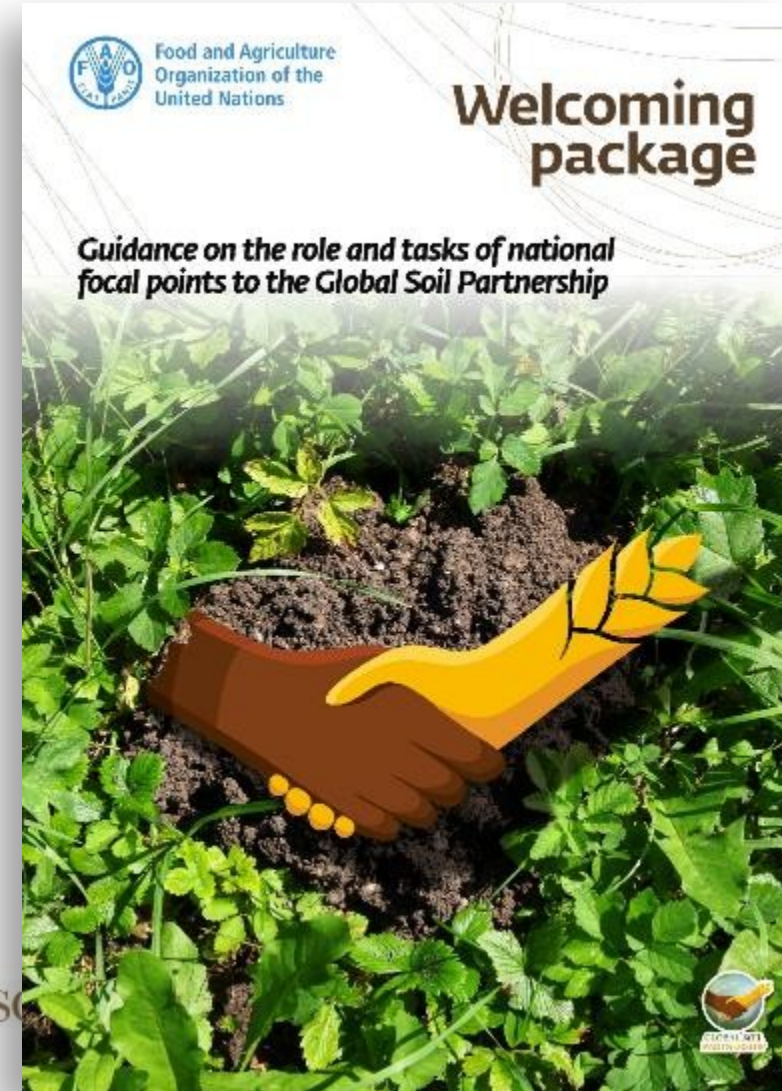
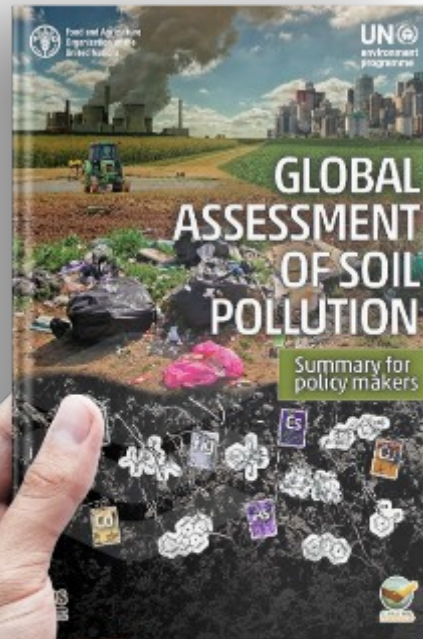
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NFPs WELCOMING PACKAGE..

A GSP **WELCOMING PACKAGE** will be sent to each NFPs and includes :

- **GSP brochure**
- Flagship **soil-related publications**
- GSP gadgets: bags, USBs, pens and pins..



ing sustainable so

WHO IS THE GSP FACILITATOR IN YOUR REGION?

AFRICA

BRAHENE, SEBASTIAN

Chair: Mr Victor Chude (Nigeria)



EURASIA

RODRIGUEZ EUGENIO NAZAROVA

Chair: Ms Gulchekhra
Khasankhanova (Uzbekistan)



EUROPE

YIGINI, YUSUF

Chair: Mr Rainer Baritz (EEA)



LAC

OLIVERA SANCHEZ, CAROLINA

Chair: Ms Carla Pascale (Argentina)



NORTH AMERICA

RONALD VARGAS

Chair: Vacant



ASIA

CAON, LUCREZIA

Chair: Ms Sonia M.
Salguero (The Philippines)

PACIFIC

**CAON,
LUCREZIA**

Chair: Mr Peter
Wilson (Australia)



NENA

**CAON,
LUCREZIA**

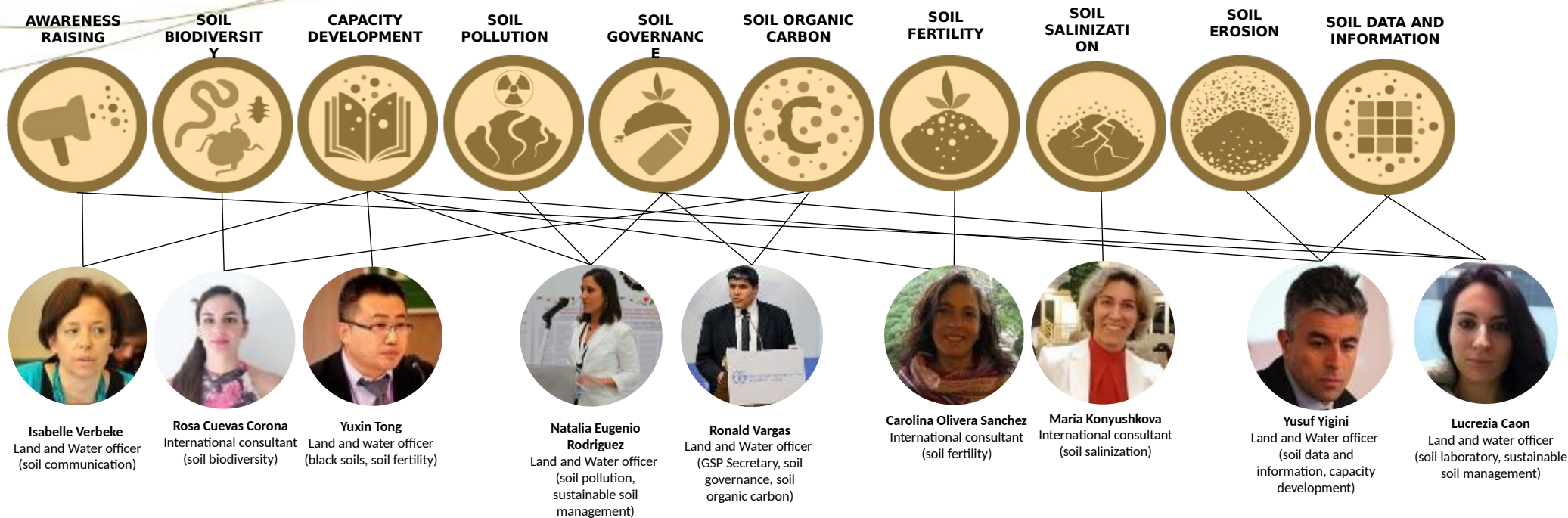
Chair: Mr. Rachid
Moussadek (Morocco)

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MEET/ LIAISE WITH THE GSP SECRETARIAT

AREAS OF WORK

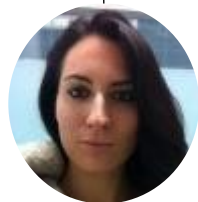
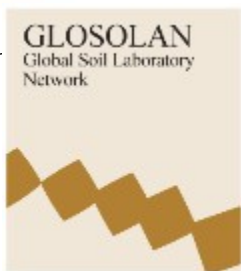


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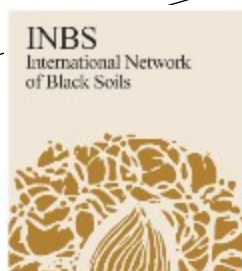


MEET/ LIAISE WITH THE GSP SECRETARIAT

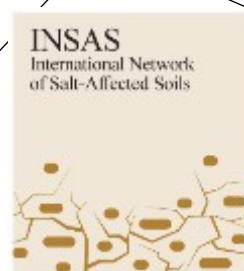
TECHNICAL NETWORKS



Lucrezia Caon
Land and water officer
(soil laboratory, sustainable
soil management)



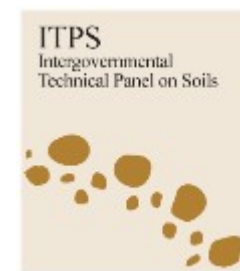
Yuxin Tong
Land and water officer
(black soils, soil fertility)



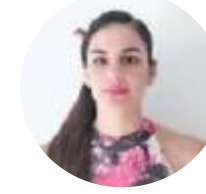
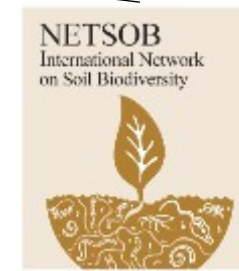
Maria Konyushkova
International consultant
(soil salinization)



Yusuf Yigini
Land and Water officer
(soil data and information, capacity
development)



Natalia Eugenio Rodriguez
Land and Water officer
(soil pollution, sustainable
soil management)



Rosa Cuevas Corona
International consultant
(soil biodiversity)



Vinisa Saynes
International consultant
(soil fertility)

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