



Food and Agriculture
Organization of the
United Nations

INSOP Assessment WG meeting on SOPs for pesticides and soil pollutant threshold values

16 November 2023
12:00 – 14:00 (CET)

INSOP Assessment WG meeting on SOPs for pesticides and soil pollutant threshold values

The session will start in few minutes

- **Should you, at any point, lose your connection**, you will be able to re join the meeting by using the same link and password
- Kindly keep your microphone **mute**
- **To take the floor, please use the RAISE YOUR HAND function.** The moderator will take note of the order of discussion
- If you have comments or questions ,please use the CHAT function
- Please make sure that your name below the image box indicates:

YOUR COUNTRY/ORGANIZATION_YOUR NAME

Agenda

12:00-12:05 | OPENING REMARKS
Deyi Hou, INSOP Vice-Chair

12:05-12:15 | INSOP WG priorities
Sergejus Ustinov, FAO GSP

12:15-12:30 | GLOSOLAN harmonization process
Filippo Benedetti, FAO GSP

12:30-12:45 | Highly Hazardous Pesticides and their harmonization
Elen Karasali, INSOP leader

12:45-13:05 | **Open discussion**

13:05-13:20 | INSOP approach in creating a global database of soil pollutant threshold values
Deyi Hou, INSOP Vice-Chair

13:20-13:55 | **Open discussion**

13:55-14:00 | CONCLUSION
Deyi Hou, INSOP Vice-Chair

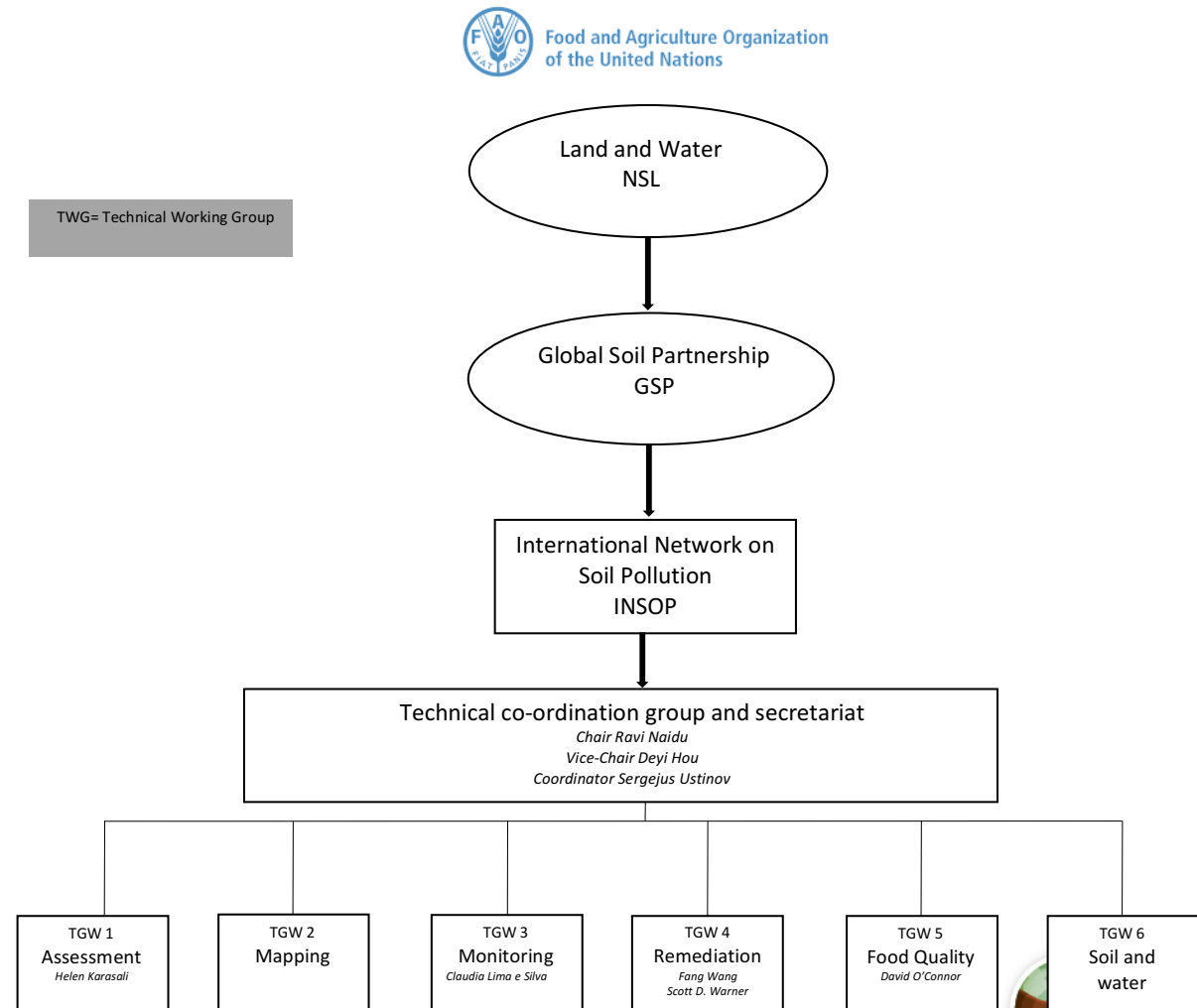
Moderated by: Sergejus Ustinov and Elen Karasali

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INSOP areas of work

- INSOP focuses on six main areas of work under each of which various tasks will be carried out to achieve the overall goal
- It works on **improving knowledge on the full cycle of soil pollution**, from assessment to remediation, as well as on the effect on environmental and human health and the provision of soil ecosystem functions and services



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GLOBAL SOIL PARTNERSHIP

GSP

Global Soil Partnership, FAO



Deyi Hou

INSOP Vice-Chair



Ravi Naidu

INSOP Chair

Sergejus Ustinov



INSOP coordinator

Helen Karasali
Assessment WG



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Mapping WG

Claudia E Lima de Silva
Monitoring WG



Scott D. Warner
Fang Wang
Remediation WG



David O'Connor
Food Quality WG



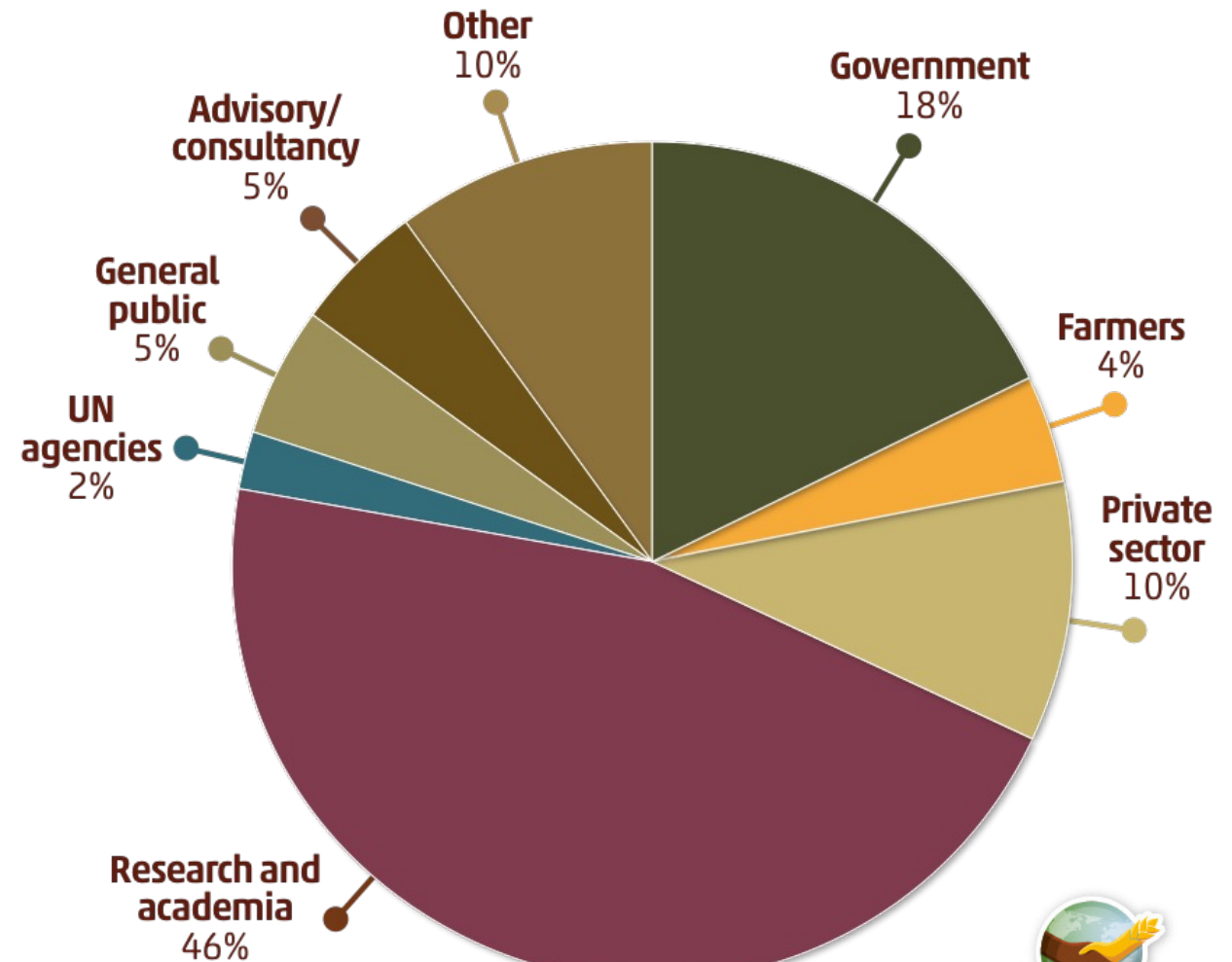
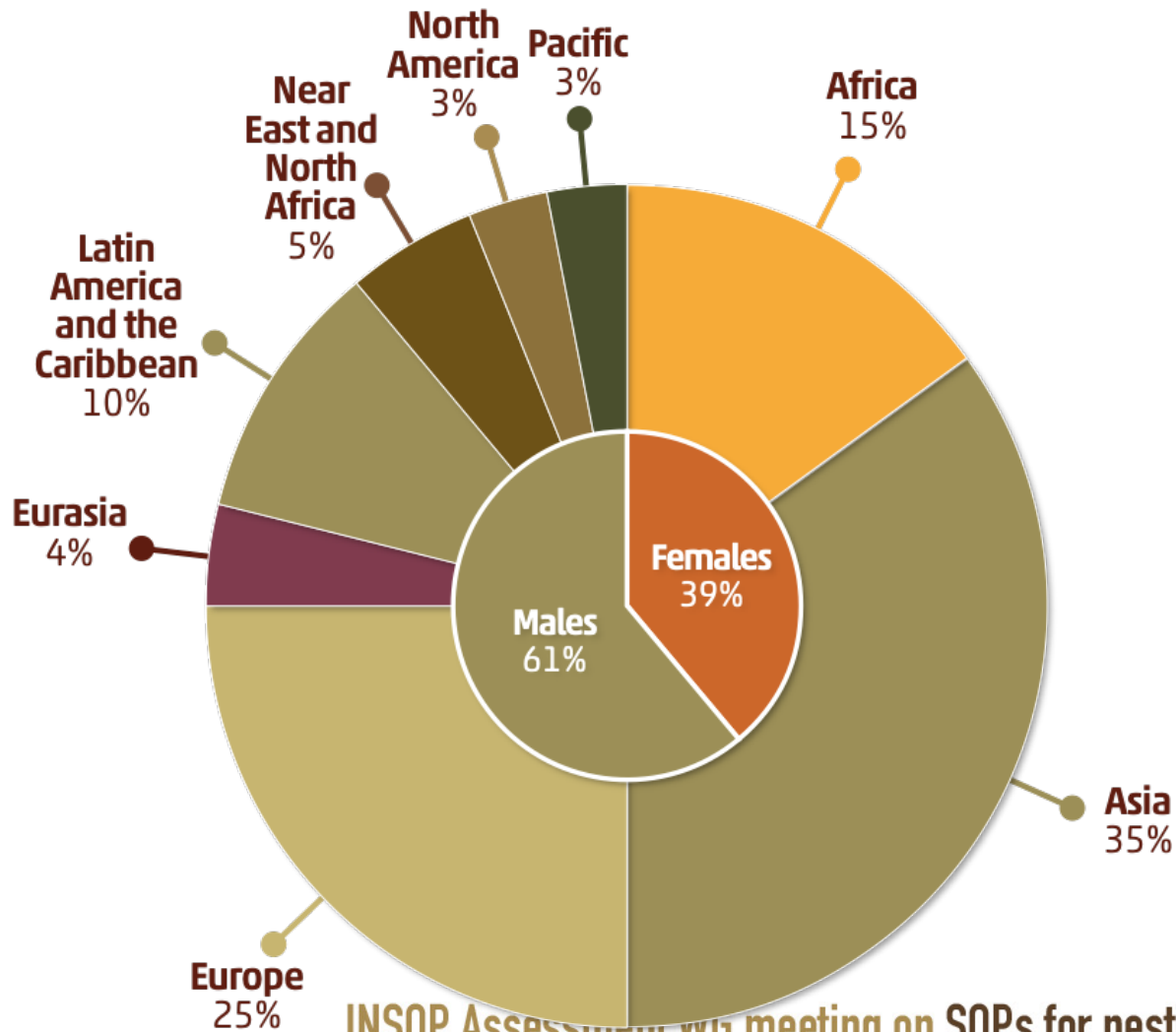
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Soil and water WG

Promoting sustainable soil management for all



INSOP members

- >1,000 members from 130 countries



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INSOP priorities 2023-2025

Monitoring of soil pollution

- Advocate for a better understanding of national legal instruments on the prevention, monitoring and/or remediation of soil pollution



Food and Agriculture Organization of the United Nations

INTERNATIONAL NETWORK ON SOIL POLLUTION

ACTION PLAN

PRIORITIES OF THE MONITORING WORKING GROUP (WG) ON SOIL POLLUTION

OCTOBER 2023 VERSION

PRIORITY 1

Advocate for a better understanding of national legal instruments on the prevention, monitoring and/or remediation of soil pollution

OUTCOME A global INSOP database is developed and utilized by the countries to learn about the existing legal instruments of soil pollution prevention, monitoring and/or remediation

KEY PERFORMANCE INDICATORS	LONG TERM	SHORT TO MEDIUM TERM
	Proposal of an international instrument that positions soil pollution as a major global challenge and monitors its impacts	Number of countries are advocating for the development of soil pollution legal instrument

KEY ACTIVITIES

- In support of SoilEX, INSOP members help to analyze national soil legislation and identify minimum principles for addressing soil pollution;
- In support of SoilEX, INSOP members prepare a policy brief on the current legislation and existing gaps in monitoring soil pollution;
- Assist countries willing to develop soil pollution policies;
- In partnership with INSOLFIER, spread awareness and identify countries willing to monitor the concentration of heavy metals on fertilizer labels; and
- In support of SoilEX, launch a series of webinars aiming to explain soil pollution legal instruments currently in place.

Remediation of soil pollution

- Advocate for the development of national capacities and strengthen technology transfer for remediation and sustainable management of polluted soils



Food and Agriculture Organization of the United Nations

INTERNATIONAL NETWORK ON SOIL POLLUTION

ACTION PLAN

PRIORITIES OF THE REMEDIATION WORKING GROUP ON SOIL POLLUTION

OCTOBER 2023 VERSION

PRIORITY 1

Advocate for the development of national capacities and strengthen technology transfer for remediation and sustainable management of polluted soils

OUTCOME (1) INSOP remediation database is widely recognized; and (2) Sustainable practices are disseminated among countries for remediating polluted soil, maximizing environmental, social, and economic benefits

KEY PERFORMANCE INDICATORS	LONG TERM	SHORT TO MEDIUM TERM
	An international database of sustainable soil pollution remediation practices is available for global use	At least 60% of countries are represented through case studies in the global database

KEY ACTIVITIES

- Agree on the definition of what is sustainable remediation and develop criteria to assess remediation technologies;
- Develop the remediation action plan checklist;
- Launch a survey among INSOP members and GSP focal points to identify successful case studies and barriers in using sustainable remediation technologies; and
- INSOP members contribute to the development of a global database for the sustainable remediation of polluted soils to assess remediation technologies.

INSOP Assessment WG meeting SOPs for pesticides and soil pollutant threshold values 16 November 2023



INSOP priorities 2023-2025

Food quality and soil pollution

- Advocate for the promotion of soil pollution to be included in the One Health approach and the Global Health Observatory

Food and Agriculture Organization of the United Nations

INTERNATIONAL NETWORK ON SOIL POLLUTION

ACTION PLAN

PRIORITIES OF THE FOOD QUALITY WORKING GROUP ON SOIL POLLUTION

OCTOBER 2023 VERSION

PRIORITY 1

Advocate for the promotion of soil pollution to be included in the One Health approach and the Global Health Observatory

OUTCOME Increased dedication and global awareness in including soil pollution indicators in the Global Health Observatory

KEY PERFORMANCE INDICATORS

LONG TERM	SHORT TO MEDIUM TERM
By 2027, new soil pollution indicators will be proposed to the Global Health Observatory	At least 60% of INSOP members are involved in the analysis of soil indicators

KEY ACTIVITIES

- Develop indicators and guidelines for assessing the risks of soil pollution to food safety and human health;
- Initiate contact between FAO and WHO to better understand health data on soil and food contamination via knowledge exchange dialogue;
- INSOP members help to collect and analyze health data related to soil and food contamination, promoting the One Health approach;
- Advocate for social media campaigns emphasizing the relationship between soil pollution and the One Health approach; and
- Advocate for the inclusion of soil pollution indicators in the Global Health Observatory under the Environment and Health theme based on analyzed health data.

INSOP Assessment Working Group

GLOBAL SOIL PARTNERSHIP

Working on SOPs for pesticides and soil pollution

October 2023

Food quality and soil pollution

- Support the inclusion of soil pollution risk assessment and minimization measures in the Global Soil Doctors Programme in supporting land users to avoid soil pollution

PRIORITY 2

Support the inclusion of soil pollution risk assessment and minimization measures in the Global Soil Doctors Programme in supporting land users to avoid soil pollution

OUTCOME Farmers are aware of soil pollution risk to food produce and minimize the impact using the Global Soil Doctors Programme

KEY PERFORMANCE INDICATORS

LONG TERM	SHORT TO MEDIUM TERM
By 2027, farmers' communities in at least 6 developing countries will be utilizing the provided training and exercises to prevent soil pollution (depending on funding)	By 2025, farmers' communities in at least 3 developing countries will be utilizing the provided training and exercises to prevent soil pollution

KEY ACTIVITIES

- Soil Doctors' posters on what is soil pollution revised and approved for training purposes;
- Soil Doctors' field exercises on identifying soil pollution revised and approved for training purposes;
- Tailored modules and exercises for soil pollution prevention and adoption are developed to meet specific community needs for training purposes; and
- Advocate for involving farmers' associations in knowledge exchange dialogue on pollution prevention and best practices of sustainable soil management through workshops and social media campaigns

INTERNATIONAL NETWORK ON SOIL POLLUTION

The International Network on Soil Pollution (INSOP) has the overall aim of stopping soil pollution and achieving the global goal of zero pollution. To this end, INSOP works to improve knowledge on the full cycle of soil pollution, from assessment to remediation, as well as on the effect on environmental and human health and the provision of soil ecosystem functions and services. INSOP also aims to strengthen technical capacities and legislative frameworks for the prevention of soil pollution and promotes the exchange of experiences and technologies for the sustainable management and remediation of polluted soils.

October 2023



INSOP priorities 2023-2025

Assessment of soil pollution

- Advocate for the development of global harmonized methods, including SOPs to identify and measure soil pollutants

PRIORITY 1

Advocate for the development of global harmonized methods, including standard operating procedures (SOPs) to identify and measure soil pollutants

OUTCOME

Soil laboratories are well-informed about the harmonized SOPs for soil pollutants and their usage

LONG TERM	SHORT TO MEDIUM TERM
By 2025, 80% of soil laboratories working with the GSP will be aware of how to use the harmonized SOPs for measuring soil pollutants in the laboratory	At least one soil laboratory working with the GSP from each region is involved in the development of harmonized SOPs

KEY ACTIVITIES

- Liaise and work in partnership with the GLOSOLAN;
- Analyze the available protocols for soil pollutants;
- Develop SOPs for pollutants of concern, such as bioavailable heavy metals, obsolete pesticides and Highly Hazardous Pesticides (HHP); and
- Facilitate cooperation among soil laboratories in the use and implementation of soil pollutants SOPs through webinars and workshops on in-person training.

Assessment of soil pollution

- Advocate for creating a global database on soil pollutant threshold values in agricultural soils and other land uses focusing

PRIORITY 2

Advocate for creating a global database on soil pollutant threshold values in agricultural soils and other land uses focusing on heavy metals and pesticides

OUTCOME

(1) Foster a deeper understanding of existing soil pollutant threshold values worldwide; and (2) Countries making informed decisions based on the data and information of soil pollutant threshold values

	LONG TERM	SHORT TO MEDIUM TERM
KEY PERFORMANCE INDICATORS	Number of countries are working towards the adoption of threshold values for soil contaminants within national regulation	At least 50% of the countries are involved in the discussions on the establishment of threshold values for soil pollutants
KEY ACTIVITIES	<ul style="list-style-type: none"> • In support of SoilEX, launch a survey among INSOP members and GSP focal points to better understand the existence of soil pollutants threshold values and identify gaps; • INSOP members help to analyze and interpret the generated data from the survey for the preparation of the INSOP global threshold values database on soil pollutants; and • INSOP members help to develop the INSOP threshold values database on soil pollutants and disseminate its findings to the government, policymakers, private sector and civil society worldwide. 	

Schedule

Assessment

NOVEMBER 16

- Pesticides SOPs
- Soil pollutant threshold values

Remediation

DECEMBER 13

- Remediation action plan checklist
- Building sustainable management database

Monitoring

NOVEMBER 29

- Identifying gaps on soil legal tools

Food and pollution

DECEMBER 15

- Training to farmers on preventing soil pollution
- Soil indicators for the WHO Global Health Observatory

Promoting sustainable soil management for all



Meeting objectives

- Which pesticides should we focus on for the SOP development?
 - Organophosphate using QUECHER method extraction with HPLC and GC-MS/MS
- Plan technical WG meeting on SOP and define the timeline
- Agree on the best approach to collect the information for the soil threshold values for each region
- Define the timeline for the task above

Promoting sustainable soil management for all



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Thank you!

Sergejus.Ustinov@fao.org

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