



Food and Agriculture  
Organization of the  
United Nations

INSOP-GLOSOLAN joint  
meeting

Tuesday, December 20<sup>th</sup>  
ASSESSMENT WORKING  
GROUP





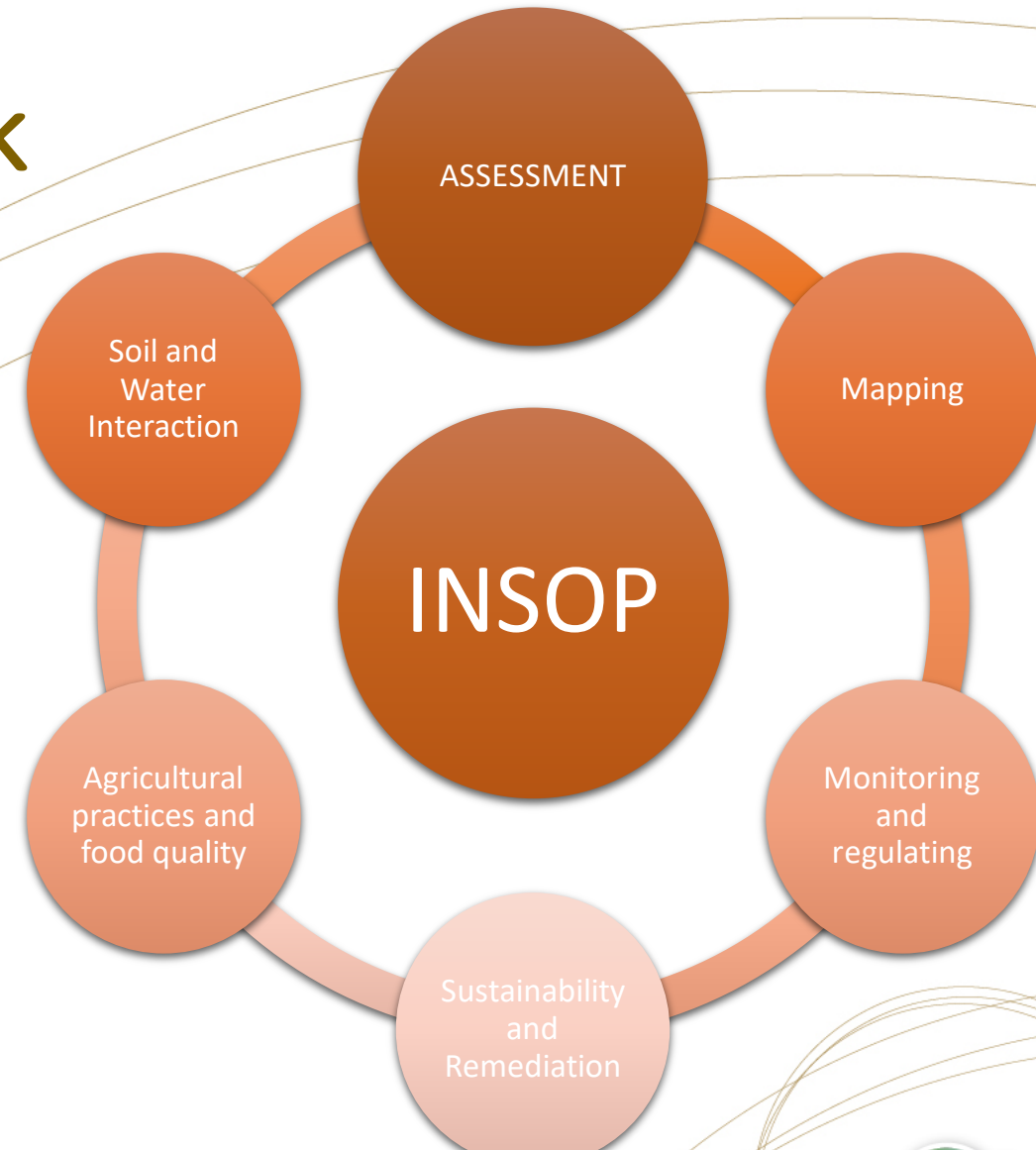
# Meeting Agenda

Time	Content
11:00-11:10	Welcoming and brief recap on INSOP Assessment WG goals and deliverables <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b>
11:10-11:20	<i>Main INSOP-GLOSOLAN objectives and deliverables</i> <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b>
11:20-11:50	Soil contaminants SOPs to harmonize in 2023 - List of possible SOPs - Open discussion - Decision  <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b> <b>Mr. Filippo Benedetti, FAO-GSP, GLOSOLAN Coordinator</b>
11:50-12:10	Awareness raising on policy briefs for soil contaminants and reagent - Environmental risk identification for soil pollution reagents  <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b> <b>Mr. Filippo Benedetti, FAO-GSP, GLOSOLAN Coordinator</b>
12:10-12:20	Developing SOP for soil sampling <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b>
12:20-12:25	Wrap up and closure of the meeting <b>Mr Sergejus Ustinov, FAO-GSP, INSOP Coordinator</b>
Conclusions and closure of the event	
12:25-12:30	Final remarks from INSOP Assessment WG leader/ INSOP chair <b>Prof. Ahmad Mahdavi, INSOP Assessment WG leader</b> <b>Prof. Ravi Naidu, INSOP chair</b>



# 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 will work 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





# Assessment WG goals and deliverables

1. List of contaminants of priority (Major deliverable)
2. Harmonizing laboratory methods (*Standard Operating Procedures*–SOPs) for the measurement of soil contaminants
3. Develop SOP for sampling soils
4. Build laboratory capacity and awareness raising on policy briefs for soil pollutants and reagent (lab analysis)
5. Compiling all existing threshold values for different contaminants and different land uses
6. Generation of standard threshold values for guidance at national level
7. Identification and development of soil pollution indicators



# List of contaminants of priority

Group of contaminants	Contaminants	Available GLOSOLAN SOP (extraction) methods	Proposed INSOP- GLOSOLAN SOP methods
Toxic metals	Cadmium - Cd	DTPA, Aqua regia	
	Lead- Pb	DTPA, Aqua regia	
	Copper- Cu	DTPA	Aqua regia
	Mercury - Hg	Aqua Regia	
	Nickel- Ni	Aqua regia	
	Chromium- Cr	Aqua regia	
Toxic metalloids	Arsenic- As	Not available	Aqua regia
	Antimony- Sb	Not available	Aqua regia
Pesticides	TBD later 2023	Not available	TBD
Other	Selenium -Se	Not available	Aqua regia
	Microplastic		



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# Awareness raising on policy briefs for soil contaminants and reagent

- To develop
    1. Policy brief on lab waste disposal
    2. Lab guideline on soil and reagent disposal
- 

## 1. Policy brief:

- Literature review by **INSOP/GLOSOLAN/SoiLEX** GSP coordinators: To gain information on the current legislative framework established in each region
- GLOSOLAN Global assessment survey (October): To get more details from each country
- Case study: NENA region (*Syria, Palestine, Sudan, Jordan, Morocco, Iraq, Yemen, Tunisia, Oman, Lebanon*)





# Awareness raising on policy briefs for soil contaminants and reagent

## 2. Lab guideline on soil and reagent disposal

To know more on the good practices in order to properly dispose soil after analysis

- **Health & Safety** manual guideline developed by **GLOSOLAN** working group: to identify the main reagents used in the laboratory, and describe the risk for human health
- **Environmental risk** guideline developed by **INSOP** working group: to identify environmental risks for each reagent and how to dispose the reagents and the treated soils.



# Develop SOP for soil sampling

- Part of the Technical Guidelines on soil pollution
- A guidelines to navigate technicians/stakeholders/government representatives in the decision making process to identify and assess the risk and take the best management decision
- Focuses on:
  1. How to build a Conceptual site model
  2. **Design of the sampling strategy**
  3. Map polluted soils
  4. Carry out environmental risk assessment
  5. Monitor polluted sites
  6. Reporting soil pollution and communicating risks



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**THANK YOU**

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