

# 19<sup>th</sup> Working Session of the Intergovernmental Technical Panel on Soils (ITPS)

# Soil pollution activities 13-15 November 2023 Online meeting

Ravi Naidu

crcCARE and The University of Newcastle & INSOP Chair

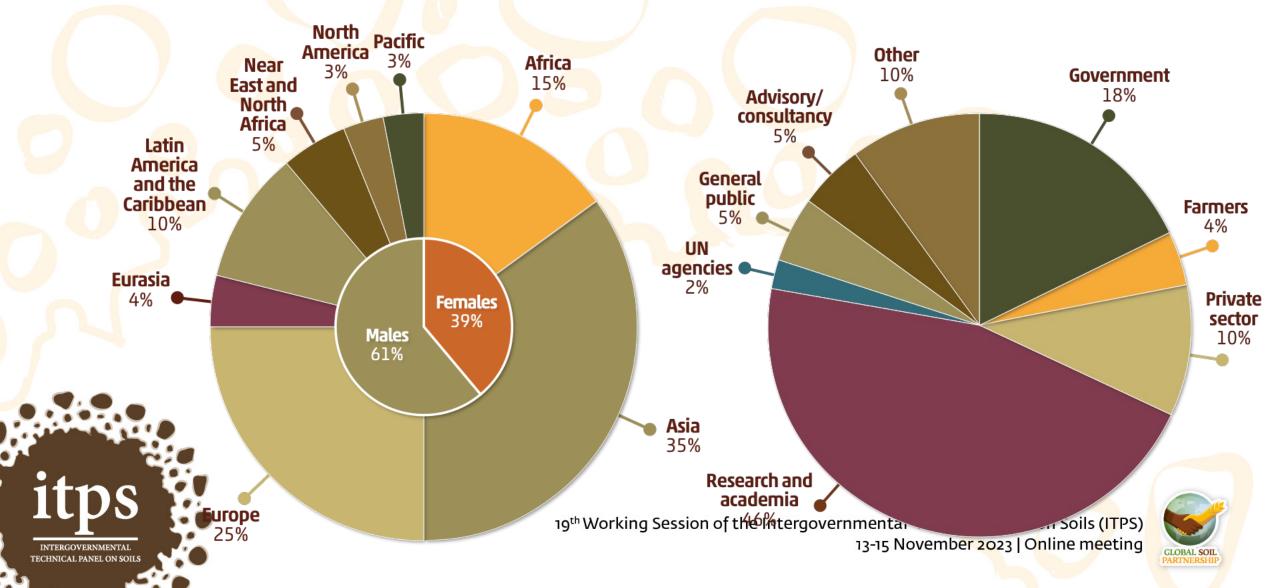
(Ravi. Naidu@crccare.com) 🕟

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INTERGOVERNMENTAL
TECHNICAL PANEL ON SOILS



# INSOP has 900 members from 130 countries



# INSOP annual meeting 2023 (13-15 June)

- 190 participants from 92 countries
- 5 distinguished speakers addressing:
- ➢One Health approach
- **▶**PFAS in Europe
- > Remediation in Africa
- ➤ Soil pollution and food security
- ➤ Pb and Hg
- INSOP priority activities endorsed for 2023-2025

INSOP-I/23/Report





Report of the first annual meeting of the International Network on Soil Pollution (INSOP)

Virtual meeting, 13-15 June 2023

INSOP-I/23/Report

https://www.fao.org/3/cc7785en/cc7785en.pdf





# INSOP priorities 2023-2025

#### Assessment of soil pollution

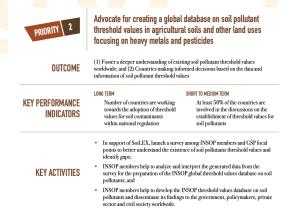
 Advocate for the development of global harmonized methods, including SOPs to identify and measure soil pollutants

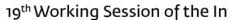


INTERGOVERNMENTAL

#### Assessment of soil pollution

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





Network on Soil Pollution (NSOP) has the overall aim of stopping soil pollution and achieving the global goal of zero pollution. To this end, INSOP works to improve Soils (ITPS) of full cycle of soil pollution, from assessment to remediation, as well as on the effect on environmental and human health and the amenicina of soil accounta-



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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



#### Remediation of soil pollution

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



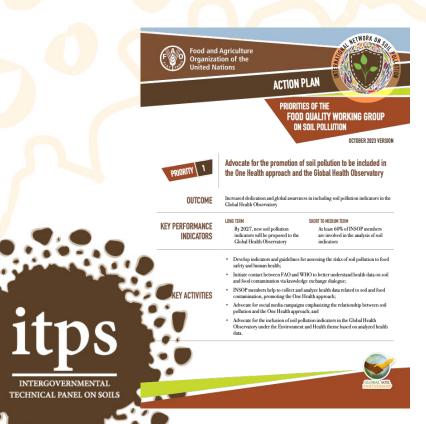
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# **INSOP** priorities 2023-2025

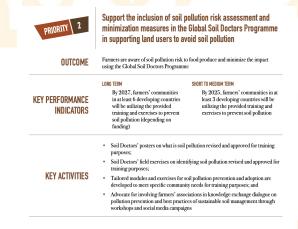
## Food quality and soil pollution

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



#### Food 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



19th Working Session of the

INTERNATIONAL NETWORK ON SIGN EVALUATION.

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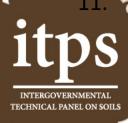
# Deliverable 1 SOP for phosphate fertilizers in soil

- Decide which SOP to harmonize (parameter + method)
- Establishment of the working group (experts from all regions)
- 3. Developing of the matrix
- 4. Share the matrix with soil labs worldwide
- Harmonization of the information collected on regional basis
- 6. Harmonization of the regional matrix into a global matrix
- Transform the matrix into a text
- Review
- Publication of the SOP
- 10. Translation of the SOP in multiple languages
- 11. Publication of the information on the sustainability of method

## Heavy Metals determination in phosphate fertilizer materials

#### **Contents**

Introduction to Heavy Metals				
3. Principle				
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4. Apparatus				
5. Materials				
6. Health and Safety				
8. Procedure				
9 Calculation				
10 Quality Assurance				
11 References				
Appendix 1: Acknowledgements				
Appendix 2: List of Authors				
Appendix 3: Contributing Laboratories				
Appendix 4: AAS Operating Conditions for heavy metals				



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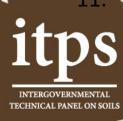
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2.	Scope and field of application				
3.	Principle				
4.	Apparatus				
4.					
5.	Materials				
6.	Health and Safety				
7.					
	Sample Preparation (Wesley Feldmann)				
8.	Procedure				
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10	Quality Assurance				
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Appendix 3: Contributing Laboratories					
App	Appendix 4: AAS Operating Conditions for heavy metals				



# <u>Deliverable 2</u> Technical Guidelines on soil pollution

No.	Chapter	2022	2023
1.	Introduction	Completed	Completed
2.	Building a Conceptual Model	Ongoing	Completed
3.	Sampling	Completed	Completed
4.	Environmental risk assessment	Ongoing	Ongoing
5.	Mapping	Ongoing	Completed
6.	Mixed pollution on site	Completed	Completed
7.	Monitoring soil pollution	Ongoing	Completed
8.	Communication and reporting soil pollution	Ongoing	Ongoing













