

INSOP Food quality WG Meeting on farmers' training and soil pollution indicators in the Global Health Observatory

INSOP Food quality WG priority meeting

14 December 2023

INSOP Food Quality WG meeting on farmers' training and soil pollution indicators in the Global Health Observatory

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



Time (CET)	Thursday, 14 December 2023	
12:00-12:05	Opening	Ravi Naidu
		INSOP Chair
12:05-12:15	INSOP Food Quality WG priorities	David O'Connor
		INSOP WG leader
Activity No 1		
12:15-12:35	FAO's Food Systems and Food Safety Division work	Keya Mukherjee
	and soil contaminants	FAO ESF
12:35-13:00	Open discussion	
Activity No 2		
13:00-13:15	1. World Banana Forum project and soil	Matheus Lima and Victor
	contaminants of concern	Prada
		FAO EST
13:15-13:35	1. Soil Doctors Programme and development of	Janet Nabwami
	farmer-to-farmer training on soil pollution	FAO GSP
13:35-13:55	Open discussion	
13:55-14:00	Conclusion	Deyi Hou
		INSOP Vice-Chair

Moderated by: David O'Connor

Sergejus Ustinov

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INSOP Food Quality WG priorities 2023-2025

Soil Pollution and food safety

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

Indicators and guidelines for assessing soil pollution risks in food

FAO-WHO partnership

Worldwide data collection on food contaminants

Social media campaign on soil pollution and One Health



PRIORITY 1

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

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

KEY PERFORMANCE INDICATORS LONG YERN

By 2027, new soil pollution indicators will be proposed to the Global Health Observatory

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SHORT TO MEDIUM TERM

At least 60% of INSOP members are involved in the analysis of soil indicators.

- 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;
- KEY ACTIVITIES
- 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 Food quality WG priority

INSOP Food Quality WG priorities 2023-2025

Soil Pollution and food safety

Support the development of training material for the Global Soil Doctors Programme

Soil Pollution and food safety

Support the development of training material for the Global Soil Doctors Programme

Community needs

Knowledge exchange dialogue with farmers on pollution prevention and sustainable soil management





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

OUTCOM

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

KEY PERFORMANCE INDICATORS

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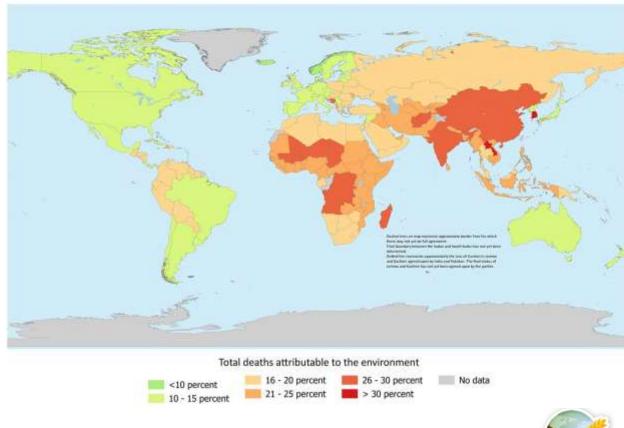
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Chemical pollutants: a significant concern for safety

- Chemicals used safely contribute to our quality of life, health and well-being
- However, some chemicals are highly hazardous and can negatively affect human health and the environment when improperly managed
- 5 million deaths (8.3%) due to environmental exposure to selected chemicals (WHO data, 2004)
- The largest contributors include pesticides
- Only a limited number of chemicals or their mixtures have data available







Agricultural soil pollution: a significant concern for food safety

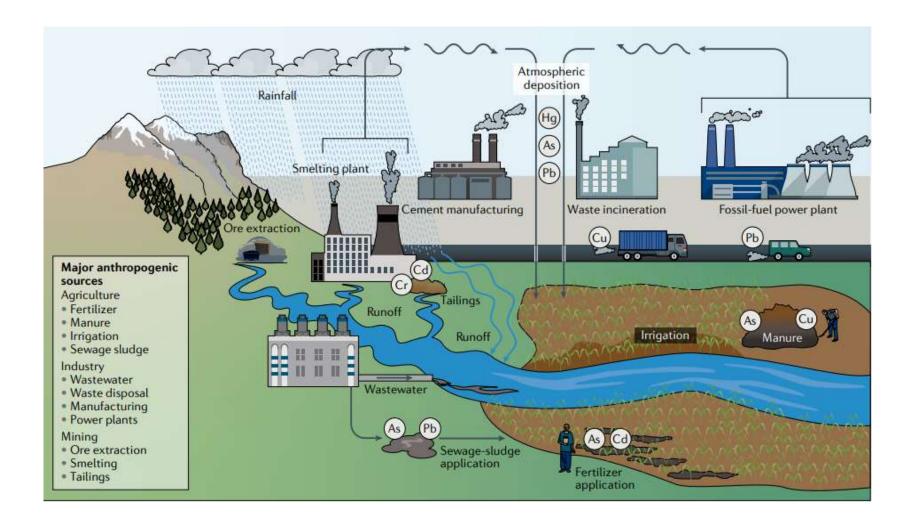
- Agricultural soil pollution can directly impact human health through the food chain
- Heavy metals, such as cadmium
- Pesticides
- Advocate for the recognition of soil pollution as a critical component in the One Health approach, which considers the interconnected health of people, animals, plants, and their shared environment
- Collaboration between FAO and health organisations, to address soil pollution as a significant health risk



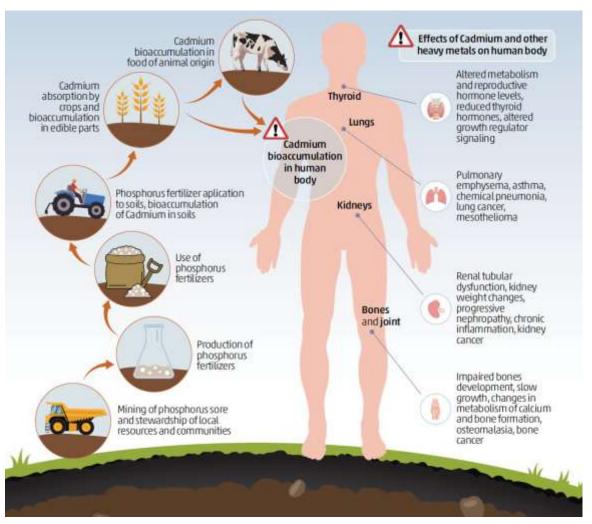
Sources of heavy metal pollution in agricultural soils

Major anthropogenic sources can be classified into three categories:

- Agricultural
- Industrial
- Mining



Cadmium: a significant concern for food safety

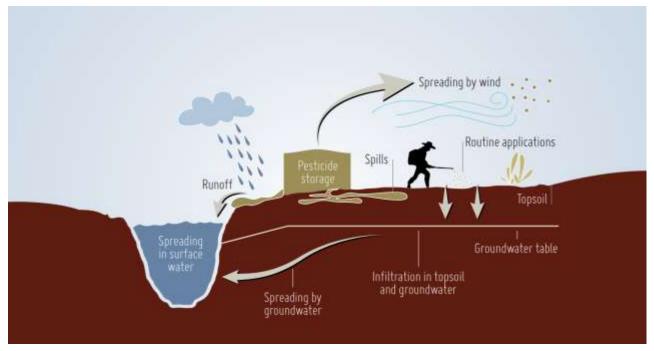


- Bioaccumulation in the Food Chain: Cd can accumulate in the biomass of plants and livestock, increasing in concentration up the food chain and posing a risk to human health when ingested
- Long-term Health Effects: Chronic exposure to heavy metals through food can lead to serious health issues. One of the main effects of cadmium poisoning is weak and brittle bones. The kidney damage inflicted by cadmium poisoning is irreversible. Cadmium exposure increases the chance of cancer.



Pesticides: a significant concern for food safety

- Pesticides are potentially toxic to humans and can have both acute and chronic health effects, depending on the quantity and ways in which a person is exposed.
- Pesticides are important in countries that face food shortages.
- Some older pesticides can remain for years in soil and water (POPs)
- Many of these chemicals have been banned from agricultural use (e.g., DDT) in developed countries, but they are still used in many developing countries.
- Maximum residue limits to protect food consumers.





Agricultural soil pollution: a significant concern for food safety

- Risk Communication: Clear and effective communication about the risks of contaminant exposure through food is crucial to raise farmer awareness and encourage safer choices
- **Global Collaboration**: International collaboration is necessary to address the transboundary nature of soil pollution



Meeting objectives

- ➤ Understand which soil pollution indicators should be integrated into the Global Health Observatory
- ➤ Raise awareness on the One Health approach, focusing on the link between soil pollutants and food safety
- Learn about the Global Soil Doctors Program and help develop training material on soil pollution for farmers' communities to use in 2024





THANK YOU

