



Food and Agriculture  
Organization of the  
United Nations



Insoilfer

# INSOILFER webinar series: capacity development for sustainable management of soil fertility and fertilizers

Georges Ndzana  
INSOILFER Chair

30  
January  
2024

13:00 -15:00  
CET

## Soil health as a prerequisite for crop production: the relevance of organic fertilizers



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**Insoilfer**  
International Network on  
Soil Fertility and Fertilizers

The International Network on Soil Fertility and Fertilizers (INSOILFER) aims to adopt and implement sustainable soil fertility management, avoid the underuse, misuse and overuse of fertilizers, and reduce the environmental and health impacts of unsustainable fertilizer use.

INSOILFER also aims at channeling collective action towards sustainable soil fertility and fertilizer management, with the vision of achieving healthy and fertile soils by 2030 and contributing to the transformation of agrifood systems.



Soil health as a prerequisite for crop production: the relevance of organic fertilizers



# AGENDA

## Launch of the International Network on Soil Fertility and Fertilizers (INSOILFER)

17<sup>th</sup> July  
2023

13:00 - 14:30 CEST

Online Meeting



# AGENDA

## INSOILFER Working Group Meetings

27-29  
November  
2023



Soil health as a prerequisite for crop production: the relevance of organic fertilizers

# INSOILFER structure and governance



Soil health as a prerequisite for crop production: the relevance of organic fertilizers

# INSOILFER Working Groups



**WG1**

Soil fertility and nutrient monitoring system

**WG2**

Sustainable soil fertility and fertilizer management

**WG3**

Fertilizer safety and quality assessment

Soil health as a prerequisite for crop production: the relevance of organic fertilizers



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# WG1 Soil fertility and nutrient monitoring system Work plan

1

Improve the knowledge and **enhancing/building capacities** on soil fertility monitoring and soil nutrition plan development and evaluation.

2

Supporting the decision-making on soil nutrient management, soil nutrient budget, monitoring system, and climate change mitigation at global, national, and local scales

3

Establishment of a global soil nutrient monitoring system and promote a data-sharing partnership

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## WG2 Sustainable soil fertility and fertilizer management

### Work plan

1

Identification, description, and compilation of locally adapted SSM practices oriented to improve soil fertility, crop nutrition, and nutrient use efficiency

2

Avoiding underuse, misuse and overuse of fertilizers through the optimization of nutrient use efficiency and fertilizer recommendations

3

**Enhancing/development capacities** on generating sustainable fertilization recommendations

Advocate for the adoption of fertilization approaches based on soil fertility evaluation

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## WG3 Quality and safety of fertilizers

# Work plan

1

Harmonization laboratory analytical protocols for the safety and quality assessment of fertilizers

- Sample preparation
- NPK
- Heavy metals
- Biofertilizers

2

**Capacity development** for quality assurance of analytical procedures and laboratory staff performance

- Ring test 2024 (NPK)
- Webinar series and trainings on quality assurance

3

Regulations and policies on the safety and quality of fertilizers

- Customs procedures
- Regulations and permissible limits for heavy metals

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# Enhancement capacities is essential for INSOILFER

Dynamic changes of soil nutrients

Measuring soil fertility at multiple scales

Generating sustainable fertilization recommendations

Soil and crop production



models for the evaluation of soil nutrient dynamics

Adoption and implementation of good laboratory practices

Key soil fertility indicators

**Webinar series with member-selected topics for greater outreach**

Quality assurance of fertilizers analysis

Soil health as a prerequisite for crop production: the relevance of organic fertilizers



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সারা বাংলা কৃষক জোটের  
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# Thank you

insoliter  
International Soil Work on  
Quality and Fertilizers



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