

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

Progress on soil fertility-related activities: International Network on Soil Fertility and

13-15 November 2023 Online meeting

(ITPS)

Fertilizer (INSOILFER)



INTERGOVERNMENTAL
TECHNICAL PANEL ON SOILS

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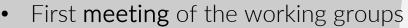




#### Goals:

- Adoption and implementation of sustainable
- and balanced soil fertility management.
   Over 1 200 registered participants.
- Keynote speakers' presentations Ensure global food security through the Technical presentation introducing the sustainable use of fertilizers and promote soil network, outlining its objectives, and fertility. prioritizing activities.
- ATher recording the then INSQUEFER launch anthe event agendazand the presentations are available on the website
- Reduction of the environmental and health impacts of unsustainable fertilizer use and soil management practices.
- Evaluation and improvement of the safety and quality of fertilizers.
- Promotion of the soils for nutrition policy at national and global levels.

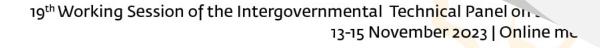
# Now...what is next? Operability



- Website construction
- Collaboration with other networks and institutions









TECHNICAL PANEL ON SOIL



**AGENDA** 

**INSOILFER** Working Group Meetings



- Endorsement of goals and work plan
- Governance: Chair, Vice-Chairs
- Technical Committees
- Reference institutions
- Potential collaborations and joint working groups

Fertilizer safety and quality assessment

Sustainable soil fertility

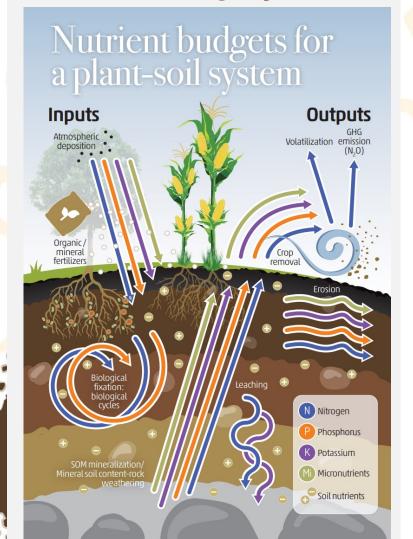
and fertilizer

management

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## WG1. Soil fertility and nutrient monitoring system



#### Improving the knowledge of the dynamics of the soil nutrient budget

- Obtaining reliable, updated, and readily available information on soil nutrient dynamics.
- Key indicators for monitoring nutrient movement to serve as the basis for nutrient balance development and mapping

## Supporting the decision-making on soil nutrient management, nutrient budget, and climate change mitigation

Soil nutrient and fertility monitoring systems, innovation development of tools for the monitoring and evaluation of soil fertility

## Promoting collective ownership, openness, and innovation in creating novel data-sourcing pipelines

and analytical tools to make progress on the knowledge of soil fertility and fertilizers management.

#### **Motivations**

The formation of WG1 responds to recommendations of the GSOIL4N Outcome Document, including "Monitor soil nutrients and soil fertility and deepen the knowledge about the soil nutrient budget."

Sustainable management and restoration of soil fertility requires a solid understanding of soil nutrient flows, stores, inputs and outputs, and the soil's physical, chemical and biological properties that regulate nutrient availability

#### Potential collaborations

INSII

ITPS-soil mapping and monitoring GLOSOLAN (harmonization of methods for

indicators)

INSOP- Fertilizers' impacts on environmental pollution

NETSOB- Fertilizers impacts on biodiversity

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## WG2. Soil fertility and fertilizer management

Promote that sustainable soil management (SSM) and sustainable fertilization practices are widely known and disseminated at the farm scale, emphasizing innovations that optimize nutrient use efficiency

Current focus on agriculture of the produced foods systems of syst

- ✓ With particular emphasis on innovations that optimize nutrient use efficiency.
- ✓ Linked to human nutrition and soil health

Identification, compilation, and promotion of successful field-tested and calibrated soil management practices proven to increase fertility, crop nutrition, and crop yields in different types of soils, crops, and climates

Identification and promotion of practices that, in addition to maintaining yields and preserving soil fertility, are aimed at reducing greenhouse gases and atmospheric pollution, especially of water

Establishment of an environmentally friendly and nutrition-sensitive (not exclusively yield-oriented) fertilizer recommendation system

#### **Motivations**

Objectives respond to recommendation 4 of the GSOIL4N <u>Outcome Document</u>, which advocates for adopting SSM practices since they are the most cost-effective solutions to increase soil nutrient content and fertility.

There is no single solution to all soil fertility problems, but a portfolio of alternatives can be employed.

WG2 will direct its efforts towards developing and implementing a portfolio of solutions to avoid the underuse, misuse, and overuse of fertilizers, greenhouse gas emissions, and environmental pollution.

#### Potential collaborations

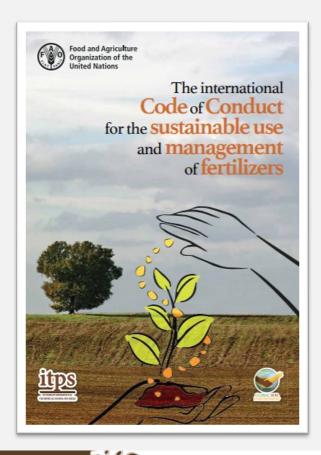
Soil Doctors Program
ITPS-fertility group
INSOP, NETSOB, INSAS, INBS
GLOSOLAN- harmonization of the soil test
kit and field soil test and interpretation

gove



## WG3. Fertilizer safety and quality assessment

Monitor and improve the quality and safety of organic and inorganic fertilizers, and other nutrient sources



#### **INFA becomes WG3-INSOILFER**

The International Network on Fertilizer Analysis (INFA) has become the WG3.

Harmonizing methodologies and protocols for the quality and safety assessment of organic and inorganic fertilizers

Quality and safety assessment of fertilizers and alternative nutrient sources: biofertilizers, biostimulants, recycled nutrient sources

Building and strengthening the national capacities of laboratories

gove

Fertilizer quality assessment

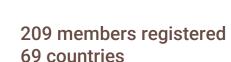


Recommendation GSOIL4N
The quality of fertilizers and their bioavailability ensure that fertilizers and recycled nutrients comply with quality and safety standards.

## Potential collaborations

INSOP, NETSOB ITPS-Soil assessment and lab harmonization

## The membership of INSOILFER





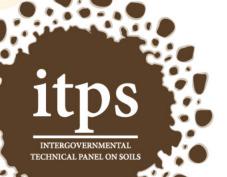
#### **INSOILFER** registration survey

Welcome to the INSOILFER registration survey!

INSOILFER is delighted to welcome new members. To become a member, we kindly request you to complete the registration form provided below.

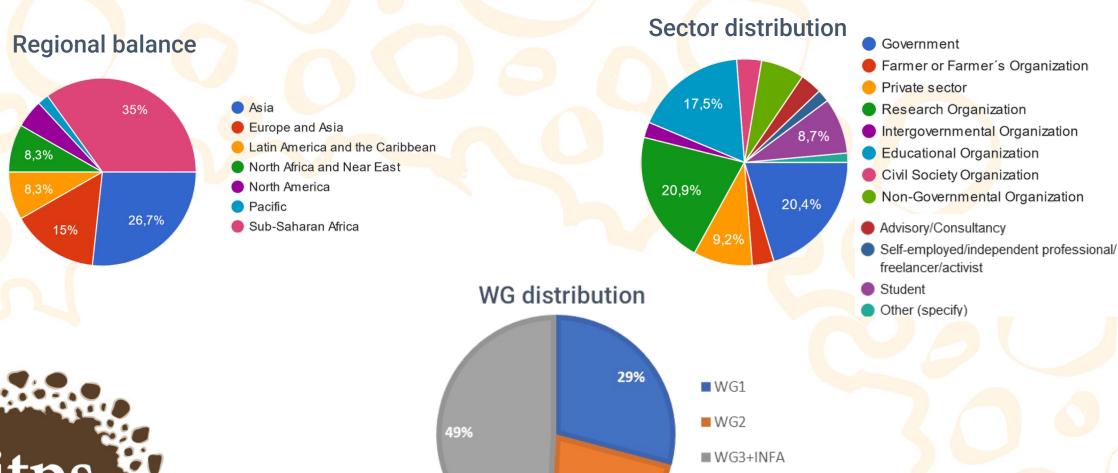
If you have any questions or need assistance, please don't hesitate to contact us at <a href="mailto:carolina.oliverasanchez@fao.org">carolina.oliverasanchez@fao.org</a> and <a href="mailto:vinisa.saynessantillan@fao.org">vinisa.saynessantillan@fao.org</a>.

Thank you for your interest in joining INSOILFER!

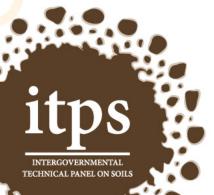




## The membership of INSOILFER



22%





n of the Intergovernmental Technical Panel on Soils (ITPS)

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#### **INSOILFER** structure

INSOILFER Chair and Vice-Chairs Members network



Food and Agriculture Organization of the United Nations

**AGENDA** 

**SOILFER Coordinators** riat: Yuxin Tong, Vinisa Saynes)

**INSOILFER** Working Group Meetings

Working groups













