



Food and Agriculture  
Organization of the  
United Nations

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

19-21 March 2024

## Preparation of the Global Symposium on Soil Information and Data 2024

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**itps**

INTERGOVERNMENTAL  
TECHNICAL PANEL ON SOILS



**GLOBAL SYMPOSIUM ON  
SOIL INFORMATION AND DATA  
MEASURE | MONITOR | MANAGE**

**September 25-28, 2024 | Nanjing, China**

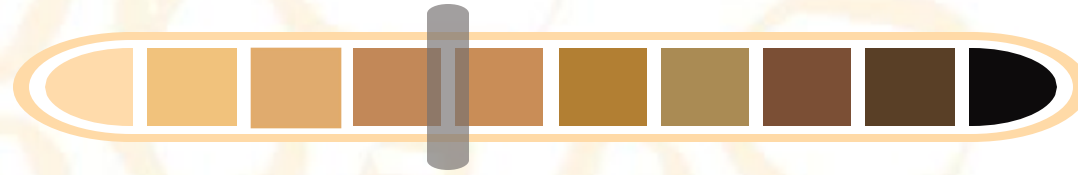


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# GSID24 Progress: We are about to launch the call for Abstracts



45%

## ✓ Concept Note

The concept note has been reviewed by the ITPS, INSII, GLOSOLAN and the co-organizing institution ISCASS

## ✓ Visual Identity

The visual identity, including website and save the date are ready

## Steering Committee

The GSP secretariat is coordinating the activities with co-organizing partner *the Institute of Soil Science, Chinese Academy of Sciences (ISSCAS)*

## Scientific Committee

ITPS to chair it. A survey was prepared to be shared with the chairs of INSII, GLOSOLAN and ISCASS

## Abstract

First Call this week. We are looking into solutions to set up an abstract management system both to collect and to review abstracts (potential candidate: Indico)

# GSID24 – Join the Scientific Committee



<https://www.surveymonkey.com/r/76FLSQR>



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# GSID24 Concept Note: Thanks to the ITPS, INSII, GLOSOLAN and ISSCAS the following suggestions were incorporated



- Theme 1: Soil Analysis and Data Quality >> Theme 1: Mainstreaming Soil Data: Innovations in Analysis, Standardization, Harmonization, and Communication
  - ✓ Comments suggested adding content on data quality, standard operating procedures (SOPs) assessing and communicating uncertainties to address data quality directly
  - ✓ It was suggested to merge sub-themes focusing on standardization, harmonization, including transfer functions, laboratory techniques, and possibly removing redundant sections if certain sub-themes
  - ✓ Recommendations to include discussions on pedotransfer functions, encouraging the correlation of databases with SOPs harmonized by FAO to create a consistent global database.
- Other suggestions that were incorporated into the final document:
  - ✓ Comments specifically related to including presentations on innovations in soil surveys through the integration of remotely sensed data
  - ✓ Suggestion on exploring the potential of soil legacy data in soil mapping practices and data-driven decision-making, emphasizing the value of historical records and past surveys.
  - ✓ Comments suggested merging sub-themes related to open data and collaborative platforms due to their similar focus.

# GSID24 What's Next:



GSID24 will explore and underscore the role of comparable and reliable soil data and information in addressing global challenges such as food security, climate change, and sustainable agricultural management by:

Show-casing cutting-edge advancements as well as identifying knowledge gaps in soil data collection and analysis (Theme 1 & 2)

Presenting success cases for the establishment of soil information systems following FAIR (Findable, Accessible, Interoperable, Reusable) standards (Theme 1 & 3)

Presenting strategies for informing policy decisions at national and international levels as well as management decisions at field scale, global development initiatives (Theme 3)

Discussing ethical considerations and data ownership. Highlighting the importance of capacity building and soil information systems (Theme 4)

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# GSID24 - Final Themes

## Theme I

Mainstreaming Soil Data: Innovations in Analysis, Standardization, Harmonization, and Communication

**Sub-theme 1.1: Laboratory Techniques and Standard Procedures for Soil Analysis**

**Sub-theme 1.2: Soil Data Standardization and Harmonization**

**Sub-theme 1.3: Evaluating, Interpreting, and Communicating Soil Data and Its Uncertainty**

**Sub-theme 1.4: The Emergence of Proximal Sensing Solutions for Soil Analysis**

Topics: Data Collection, Data Analysis, Dry and Wet Chemistry, Pedometrics, Pedotransfer functions, Uncertainty, Harmonization, Standardization, Soil Spectroscopy, Proximal Sensing



# GSID24 - Final Themes

## Theme II

Advances in Soil  
Mapping and  
Monitoring

Sub-theme 2.1: Soil Survey and Monitoring Strategies  
Sub-theme 2.2: Digital Soil Mapping Techniques and Applications  
Sub-theme 2.3: Unlocking the Potential of Soil Legacy Data

Topics: Soil Survey, Soil Monitoring, Digital Soil Mapping, Soil Legacy Data

# GSID24 - Final Themes

## Theme III

Soil Data for Policy  
and Decision-  
Making

Sub-theme 3.1: The Role of Soil Data in Achieving and Measuring the Progress on Global Development Agendas  
Sub-theme 3.2: Soil Data for Improved Food Security and Resource Management

Topics: Decision Support Systems/Tools, Soil and SDGs, Precision Agriculture, Data-driven policy

# GSID24 - Final Themes

## Theme IV

Soil Data as a  
Common Good

Sub-theme 4.1: Ethical Considerations and Data  
Ownership

Sub-theme 4.2: Fostering Open Data, Soil Information  
Systems, and Collaborative Platforms in Soil Science

Sub-theme 4.3: Capacity Building for Effective Data  
Sharing and Collaboration

Topics: Open data, Soil Information Systems, Capacity Development, Soil Data Ethics,  
Indigenous rights

Q/A!



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