

## GLOBAL SOIL PARTNERSHIP 13<sup>th</sup> Plenary Assembly

03-05 June 2025

# International Network of Soil Information Institutions (INSII)

Isabel Luotto -GSP-Secretariat

(on behalf of Luca Montanarella -INSII Chairperson)





#### **INSII - International Network of Soil Information Institutions**

#### **GSP's First Technical Network**

- Formalized in 2016
- Development of the Global Soil Information System GloSIS and Soil Data Products

#### **Membership and Leadership**

- 128 (+6 in 2025) National mandated institutions and GSP partners plus the European Union
  - New members from Djibouti, Iceland, Madagascar, Malaysia, Suriname, and Tonga
- Chaired by Mr. Luca Montanarella

#### **Support and Collaboration**

Supported by the GSP Secretariat, ITPS, and Thematic Working Groups





# **INSII in Numbers 9+ Years**

128

**FAO Member Countries & EU** 

128

**Soil Information Institutions** 

**Global Data Products** 

36 Map Layers

+2 ongoing

**System Development** 



22 ongoing\*
Philippines as a first prototype

Capacity Development



Since 12<sup>th</sup> PA

**Capacity Development** 



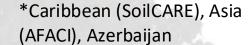
1900+ National Experts

**173**Since 12<sup>th</sup> PA

**Publications** 



Guidelines, Technical Manuals, Reports







## GloSIS- Promoting standards

#### Case Example: Philippines

- First country to demonstrate full integration prototype with GloSIS
- Published 33 thematic soil map layers on the GloSIS Discovery Hub and Map Services
  - soil organic carbon, carbon sequestration potential, and soil nutrients
- Data now openly accessible via: <a href="https://data.apps.fao.org/glosis/">https://data.apps.fao.org/glosis/</a>





9+ Years of INSII
Thanks to all
partners' in-kind
and financial
contributions!





# 10th INSII meeting

# 15–17 January 2025 | FAO Headquarters, Rome (Hybrid)

- 117 experts participated in person and online
- 7 invited talks on erosion mapping, field tools, monitoring, and policy

# INSII Implementation Plan 2025–2030 reviewed and adopted

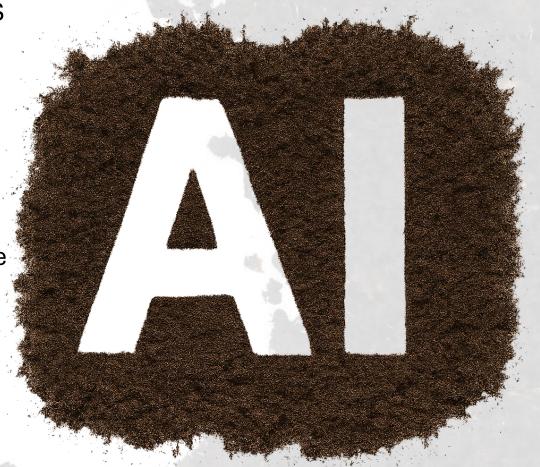
- Governance revision launched; new Chair to be elected under revised rules
- GloSIS, GSNmap, GSERmap, and SoilSTAT confirmed as priority areas
- Joint GLOSOLAN-INSII sessions held to enhance collaboration





# 2025–2030 Innovation & Future Directions

- We're actively exploring how AI can enhance the GloSIS platform — making soil data more accessible, visual, and actionable.
  - For example, we're prototyping tools that could interpret spatial data and generate soil management recommendations tailored to specific contexts.
- This aligns with FAO's broader digital strategy, and we're closely collaborating with the Digital Agriculture and Al Innovation Working Group.





## 2025-2030

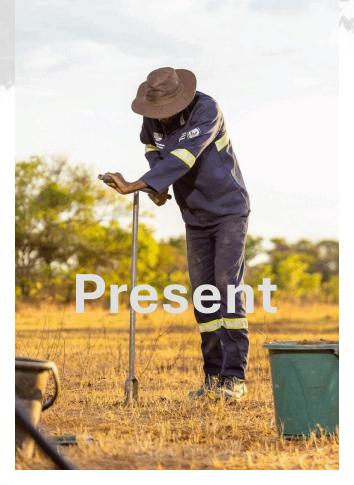
### our top priorities include:

- Consolidating the governance structure of INSII
- Strengthening the GloSIS federation and national systems
- Finalizing and publishing the GSNmap and GSERmap
- Rolling out the SoilSTAT framework
- Develop a proof of concept prototyping AI-driven recommendations tailored to specific soil conditions.
- All of this continues to support our core objective: building country-driven systems and data products for informed decisions





FAO's 80th Anniversary marks decades of work dedicated to measuring, monitoring, and mapping the world's soils



INSII institutions are building on this legacy, using cuttingedge science to close critical data and capacity gaps.



Scaling up this work means empowering better decisions for food systems, climate resilience, and healthy ecosystems



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## **Action Items**

- welcome the progress made by INSII in improving the quality and availability of soil data and information and in advancing their work plans
- invite FAO Members to establish national soil information systems in accordance with INSII guidelines and with the support of the GSP Secretariat;
- invite INSII and GLOSOLAN to strengthen their collaboration to facilitate the development of GloSIS
  and the technical components of SoilSTAT, which will serve as the main data platform for monitoring
  the implementation of the GSP Action Framework; and
- encourage all partners to support the development of national soil information systems, GloSIS, and the SoilSTAT platform, including capacity development, data infrastructure, and the operationalization of national and regional reporting mechanisms.





