





International Network of Soil Information Institutions

- GSPs first technical network, established in 2016
- Implements the activities under the GSP Area of Work: Soil
 Information and Data
- 122 FAO Member Countries + European Union
- Chaired by Mr Luca Montanarella (EU)
- INSII develops GloSIS, National Soil Information Systems and Country-Driven Global Data Products
- Supported by GSP Secretariat, ITPS, Thematic Working Groups



INSII in Numbers 7+ Years

122

FAO Member Countries & EU

122

Soil Information Institutions

Global Data Products

36 Map Layers

System Development

National Soil Information Systems

1 in 2023 (LibSIS) 22 ongoing*

Capacity Development

Training Workshops

127 countries **Capacity Development**

1800+

National Experts

100 in 2024 **Publications**

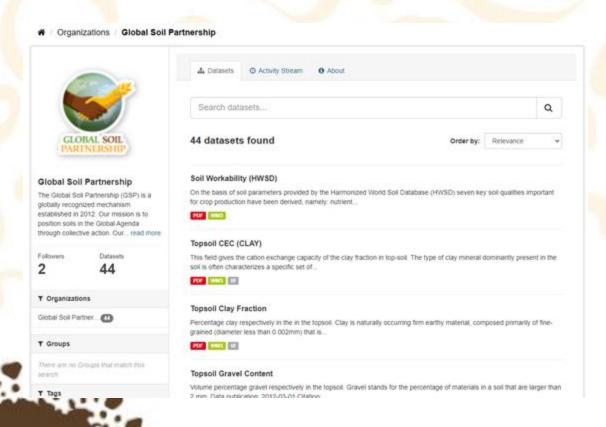
Key Publications

*Caribbean (SoilCARE), Asia (AFACI), Azerbaijan





GloSIS Discovery Hub (online)



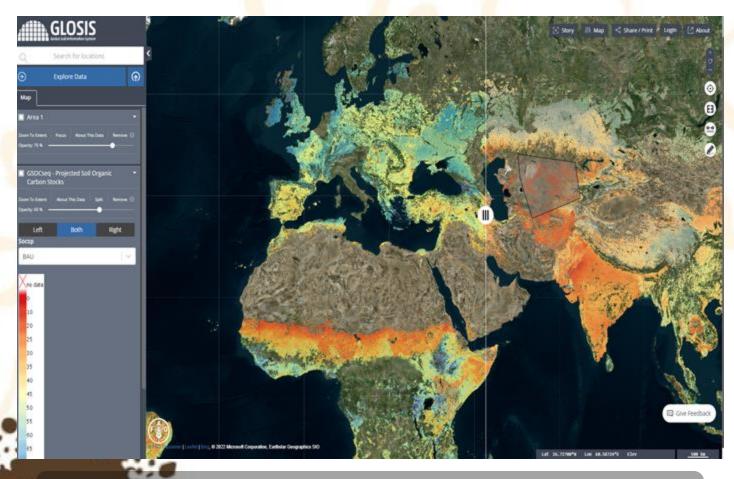
GloSIS Data Catalogue

- Global Data (Global Maps)
- We are working to connect NSIS (LibSIS connected)
- Soon fully federated





GloSIS Map Service (online)



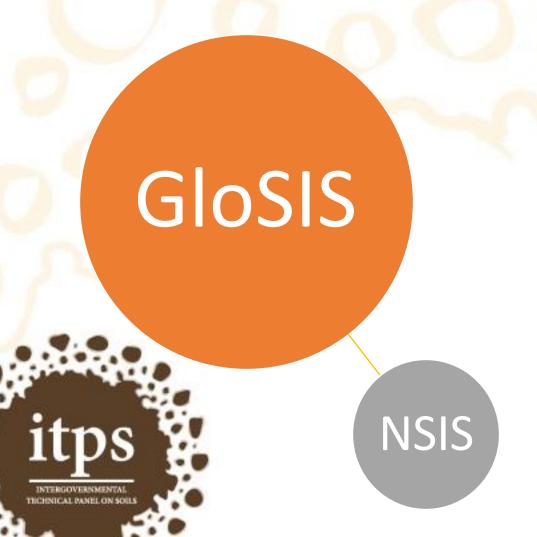
- GloSIS Map Services
- Connected to GloSIS Discovery Hub
- Advance Features
 - Compare, Download, Export, Share, Map Stories
- Currently seeking solutions to develop a bundle of software to support interested INSII members in establishing SIS



https://data.fao.org/GloSIS/



GloSIS Federation



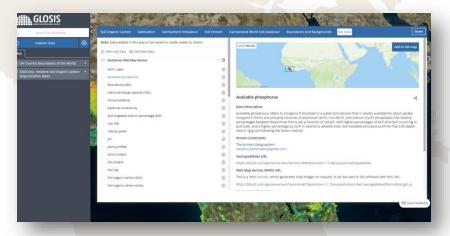
Activities:

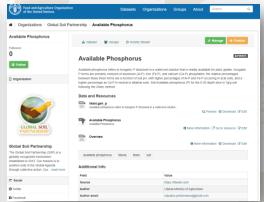
- Develop NSIS based on open standards
- Develop bundle of software
- Connect NSIS to Decision Support Systems
- NSIS Development ongoing (20+ Countries)
- Connecting national systems to GloSIS Federation (ongoing)





GloSIS Federation - LibSIS

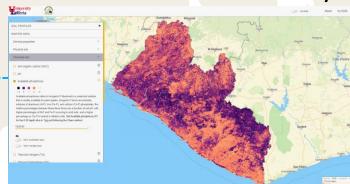




GloSIS Web Service & GloSIS Discovery Hub



LibSIS — Liberian Soil Information System



of the countries, by the countries, for the countries

Kick-off 25% 50% 75% 100%



GSOCmap v1.0 (2017) >> ...v1.6 (2022)

Global Soil Organic Carbon Map





GSOCseq

V1.0 - (2021) >> v1.1 (2022)

Global Soil Organic Carbon Sequestration Potential Map





GSASmap V1.2 (on hold)

Global Salt Affected Soils Map





GBSmap v1.0 (2022)

Global Black Soil Distribution Map





GSNmap

Global Soil Nutrient and Nutrient Budget Maps





GSERmap

Global Soil Erosion Map (resumed!)





20th Working Session of the Intergovernmental Technical Panel on Soils (ITPS)

CAPACITY DEVELOPMENT – SOIL INFORMATION and DATA New Trainings on:

- designing soil sampling designs for digital soil mapping
- soil data management









GSNmap

Country-driven mapping





GSP Members request for GSNmap

Two-phase initiative

Phase I: Nutrient maps (current status)





Methodology

Definition of a methodology through the support of the GSP's technical networks,

International Network on Soil Information Institutions (INSII),

Working groups and the ITPS



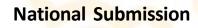
Technical specifications and country guidelines

Publication and divulgation to define a standardized approach



Online Technical Manual

Online regional training & follow-up one to one technical sessions with National Experts



Quality assessment and quality check of the submitted maps

30 Submission (March 2024)







Global Soil Erosion Map (GSERmap)

- GSP is collaborating with the World Association of Soil and Water Conservation (WASWAC) to finalize the GSERmap Technical Specifications and Country Guidelines
- We're about to establish a steering committee (members of ITPS, INSII, WASWC and the GSERmap WG) the final documents will be presented and reviewed by the entire WG, INSII and ITPS
- Currently going through logistics to organize a hybrid workshop in Yangling, China, with lead experts (tentatively – end of April)
- Resources available to organize in-person workshops





Thank you!



