



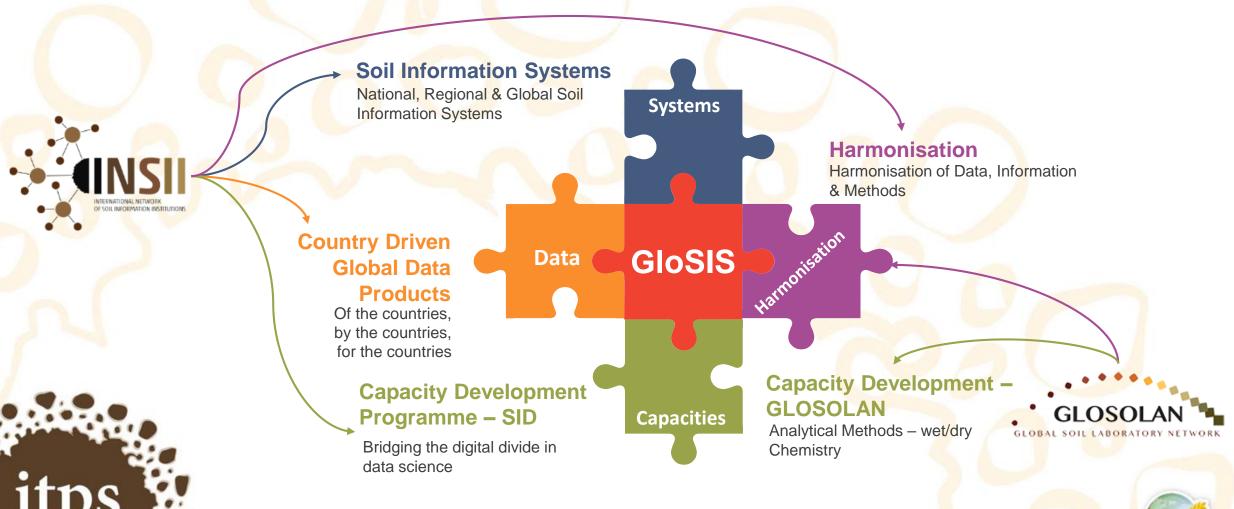
Area of Work:
Soil Information & Data
(SID)







# GSPs Contribution to Data Driven Policy Making



TECHNICAL PANEL ON SOILS

GLOBAL SOIL PAIGNERSHIP



GSOCmap v1.0 (2017) >> ... V1.6 (2022)

Global Soil Organic Carbon Map





**GSOCseq** 

V1.0 – (2021)- V1.2 soon

Global Soil Organic Carbon Sequestration Potential Map





GSASmap v1.0 (2021)

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** 









### Global Soil Nutrient and Nutrient Budget Maps





PHASE I – Nutrient maps | PHASE II – Nutrient Budgets

- Phase I development started
  - GSNmap Country Guidelines and Technical Specifications published
  - GSNmap Technical Manual ready
  - National Expert Nomination ongoing
  - Phase I Capacity Development kick-started
  - WG to guide Phase II established



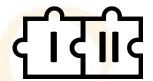






### Global Soil Nutrient and Nutrient Budget Maps





PHASE I – Nutrient maps



- on a machine learning algorithm

  (Quantile Regression Forest)
- Phase II: N, P, K nutrient budgets

Scale: National

Depth: 0-30 cm

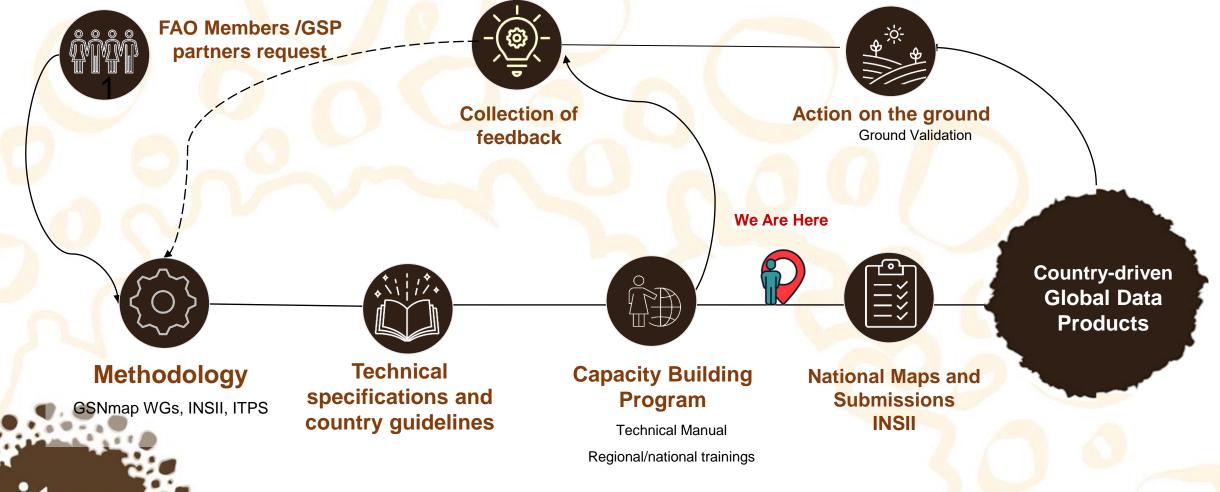
Resolution: 250 x 250 m

- Country-driven (global map based on national submissions)
- Updated following a Versioning system





# **GSPs Country Driven Approach – GSNmap**







# **GSN**map

### Global Soil Nutrient and Nutrient Budget Maps

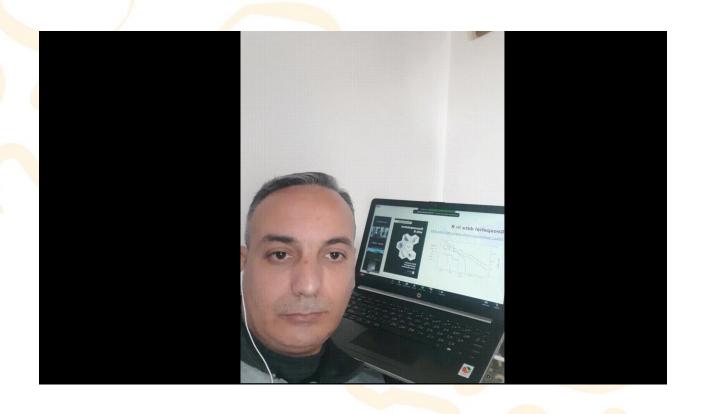


# 5 Regional Online

# **Trainings:**

- ✓ Asia
- **✓ NENA**
- **✓** Africa
- **✓ Eurasia**

60 Countries represented274 People trained









# **GSNmap**

### Global Soil Nutrient and Nutrient Budget Maps



### **5** Regional **Online Trainings**:

- ✓ Asia
- **✓ NENA**
- ✓ Africa
- ✓ Eurasia

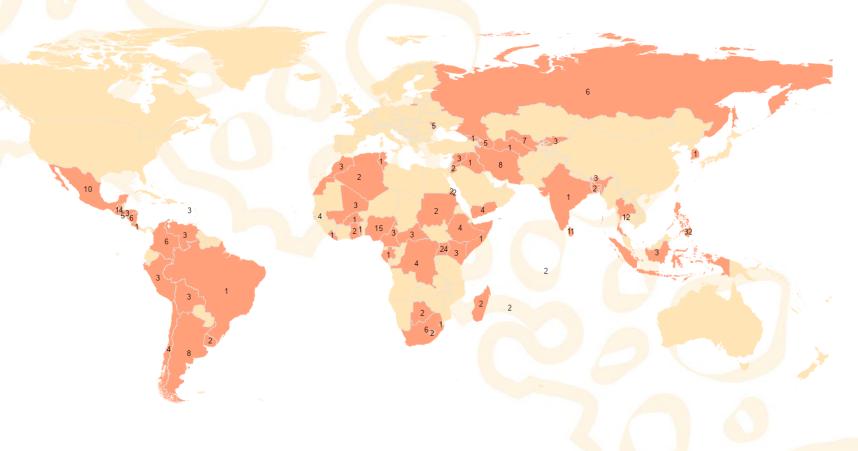
60 Countries represented274 People trained

3 Pending:

North America

Europe

Pacific



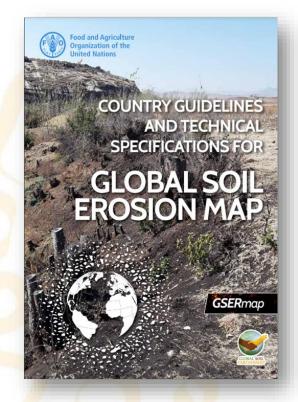




# **GSERmap**

- Global Soil Erosion Map

- Implementation slower than expected
- Technical Specifications and Country Guidelines – ready (soon to be published)
- Technical Manual in early stage







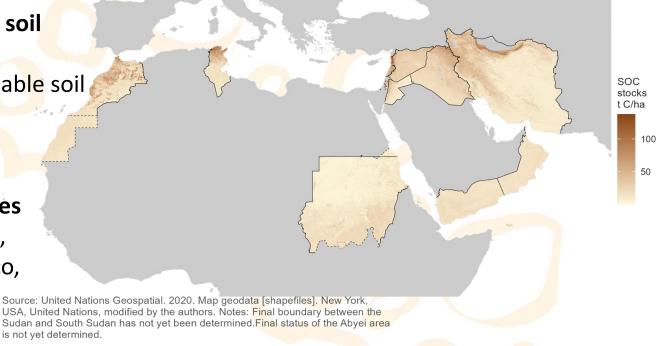
# Projects: NENA TCP Project

### **Project objectives:**

 have a better understanding of the status of soil resources in the NENA region

explore the potential of and scale up sustainable soil management (SSM)

- contribute to execution of the NENA Soil
   Partnership's implementation plan
- address national/regional needs and priorities
- 11 Countries involved Iran, Lebanon, Oman, Tunisia, Syria, Sudan, Yemen, Jordan, Morocco, Palestine



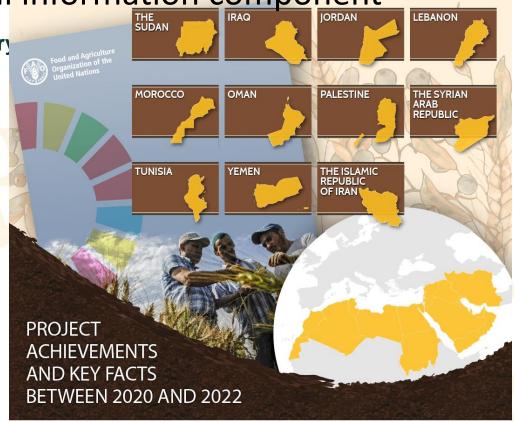




NENA TCP Project - Soil information component

Project achievements and key facts by country

- •the Islamic Republic of Iran
- •<u>Iraq</u>
- Jordan
- Lebanon
- •Morocco
- Oman
- Palestine
- •the Sudan
- •the Syrian Arab Republic
- Tunisia
- Yemen











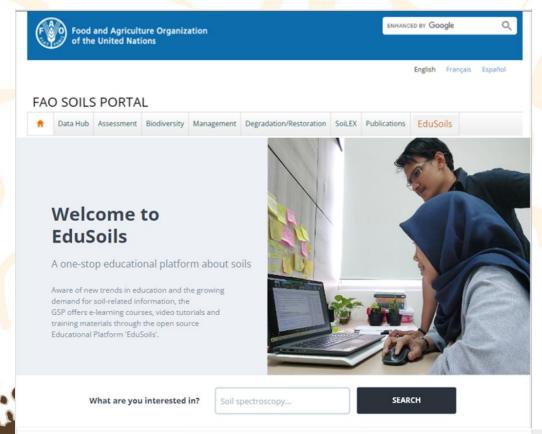
# **Projects: AFACI**

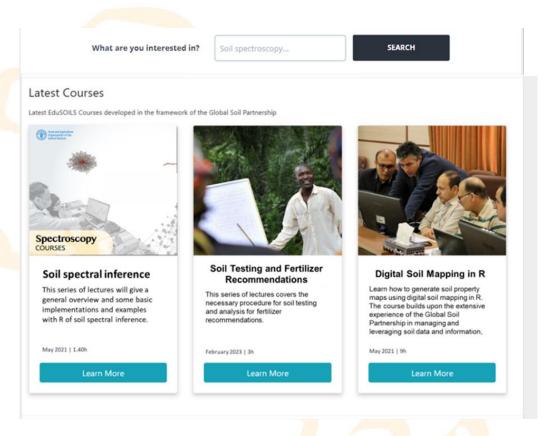
- Project funded by Asian Food and Agriculture Cooperation Initiative (AFACI) and Korea RDA
- Soil Atlas of Asia to be launched during the 11th PA
- Phase II confirmed
- Focus on national SIS and EduSoils Educational Platform





# EduSoils – educational online platform on soils









# EduSoils – educational online platform on soils

# **February**

# Course development and Platform conceptualization

- Three video courses have been developed
- The visual identity and platform features have been delineated



## March

# Platform development

- The EduSoils Platform is developed
- The already existing course content (including the video course, presentations, technical manuals etc.) are catalogued

# April

### **Deployment**

- · The platform is online
- New courses are developped



### **Divulgation**

 The platform is demonstrated during the GSP pleanary assembly











# GSNmap – Global Soil Nutrient and Nutrient Budget Maps GSERmap – Global Soil Erosion Map Update: GSOCmap, GSOCseq, GBSmap, GSASmap EduSoils National Soil Information Systems AFACI Project + AFACI Phase II SoilCARE TCP-Liberia Azerbaijan SoilFER

# 2023 Work Plan

**SID'24** 





