

Joint working group of INSAS/GLOSOLAN

Jorge Batlle-Sales, Chair of INSAS

6th Meeting of the
**Global Soil
Laboratory
Network**
(GLOSOLAN)

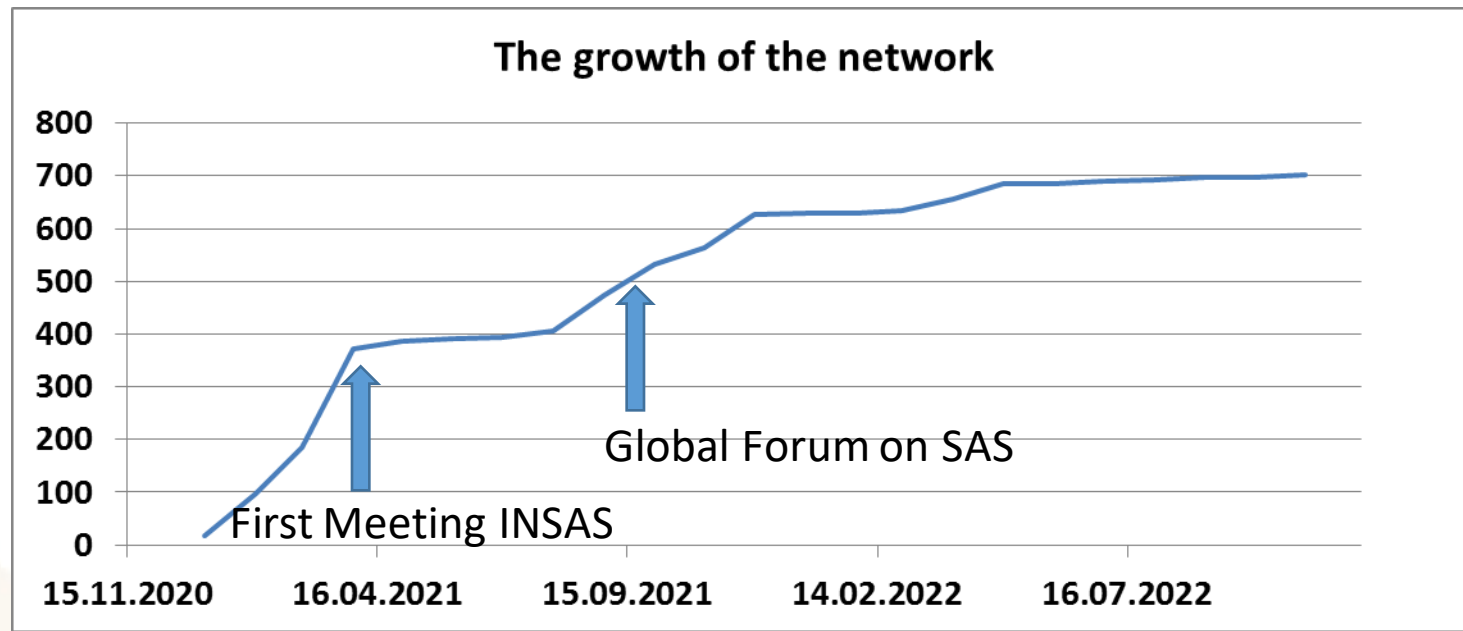


GLOSOLAN
GLOBAL SOIL LABORATORY NETWORK



About the International Network on Salt-Affected Soils (INSAS)

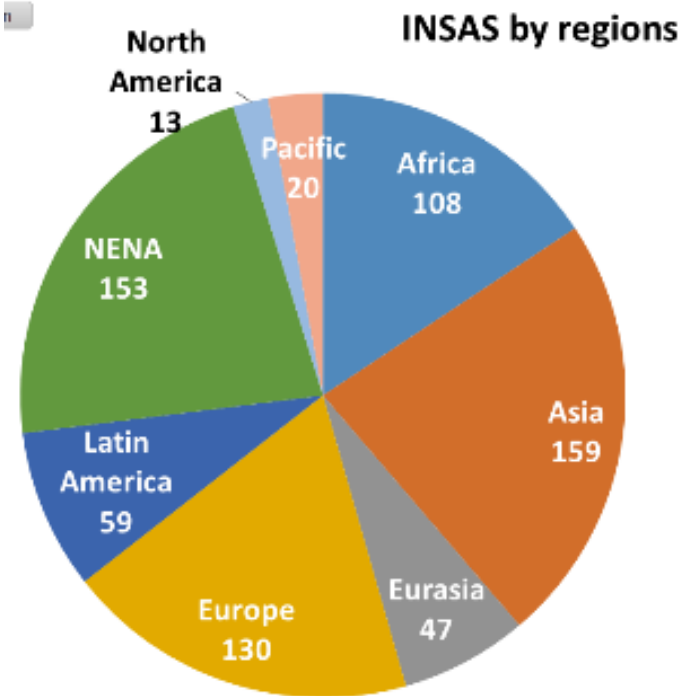
- **INSAS** was established in 2019 under the aegis of the **Global Soil Partnership** with the aim to **facilitate the sustainable and productive use of salt-affected soils** for current and future generations
- At present, **INSAS** has **689 members** from **124 countries**



6th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 22-24 November 2022



Geographic coverage of INSAS



689 members from 124 countries

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Working groups of INSAS

Working group	Activity	Number of experts	Number of countries represented
SAS&Assessment	Mapping, assessing and monitoring of salt-affected soils	132	57
SAS&SSM	Sustainable management of salt-affected soils (practices, policy)	152	67
SAS&Crops	Halophyte agriculture and salt-tolerant crops and plants	61	31
SAS&Water	Integrated soil and water management under saline/sodic conditions	127	58

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Ongoing activities of INSAS

- **Global report** on the status of salt-affected soils
- **Standard Operating Procedures** for salt-affected soils (jointly with GLOSOLAN)
- Series of **webinars** covering measurement, sampling, modeling and management of salt-affected soils
- **Harmonized protocols** for soil salinity/sodicity sampling, mapping and assessment
- **Database of good practices**



INSAS projected webinars

No	TITLE
1	Electromagnetic induction (EMI) for measuring soil salinity and sodicity at the field scale
2	Sampling of salt-affected soils: existing protocols and the way towards a harmonized approach
3	Halophytes and eHaloph database
4	Sodic soils: what are they and how to manage them?
5	Geostatistics with high resolution soil salinity mapping for decision support
6	Reactive transport modelling (with crop growth) in salt-affected soils
7	Approach to crop growth under abiotic stress
8	Assessing soil salinity and sodicity using remote and proximal sensing data
9	Indicators and indexes for assessing soil salinity and sodicity status and risk
10	Evaluation of cost/benefit of management practices in salt-affected areas
11	Crop nutrition in salt-affected soils
12	Priorities and challenges in salt-affected
13	Agricultural water management and nuclear techniques to increase water use efficiency in salt-affected soils
14	Salt-affected soils of atolls*
15	Sustainable management and policy issues of salt-affected soils: The Indian perspective*
16	Reclamation of salt-affected soils*

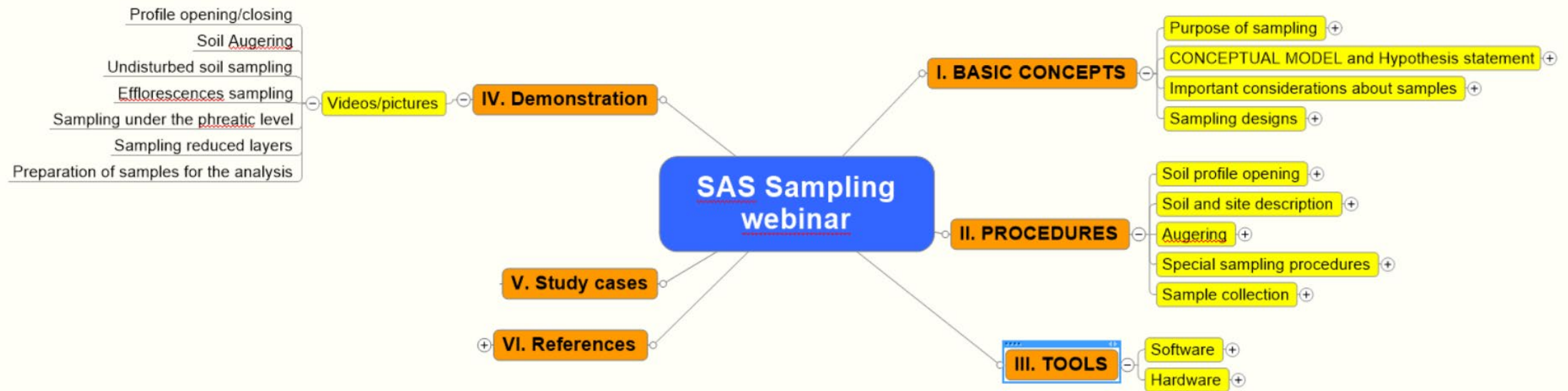
Ongoing activities of INSAS

Structure of the Salt-Affected Soils Sampling Webinar



Ongoing activities of INSAS

Structure of the Salt-Affected Soils Sampling Webinar



GLOSOLAN/INSAS joint working group meeting 17 March 2022

- Revision of existing SOPs related to salt-affected soils:
 - SOP for electrical conductivity
 - SOP for saturated soil paste extract
 - SOP for boron
 - SOP for pH
- Development of new SOPs related to salt-affected soils:
 - ESP, several analytical methods
 - SAR, several methods
 - Alkalinity in soil saturated paste extract
 - Conservation of samples (to avoid precipitation of cations and alkalinity)
 - Analysis of Boron, several analytical methods
 - Soil sampling design, volume and homogenization of samples.
 - Soil particle size analysis



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GLOBAL SOIL
PARTNERSHIP

*Joint working group on
salt-affected soils analysis GLOSOLAN/INSAS*

First Meeting
17 March 2022
from 1:00PM to 3:00 PM CET (Rome time)
Virtual meeting

International Network of
Salt-Affected Soils

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First tasks:

- Calibration between different measurements of EC and TSS
- SOP on Boron, reviewed by INSAS experts
- SOP for pH, reviewed by INSAS experts

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A decorative graphic consisting of a series of squares and dots in shades of brown, orange, and grey, arranged in a curved path that points towards the GLOSOLAN logo.

GLOSOLAN

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Willing to collaborate!

