



Food and Agriculture
Organization of the
United Nations

Item 2

GLOSOLAN-Spec

new objectives

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GLOSOLAN
2nd Plenary meeting
on spectroscopy

2 - 4 November 2021



Former objectives of the GLOSOLAN-Spec

- Build a globally representative, soil spectral calibration library (database) based on MIR spectra and the accompanying soil property reference data recorded in one gold-standard reference laboratory;
- Provide a freely available and easy-to-use soil property estimation service based on this evolving library;
- Support countries in their contributions to the GLOSOLAN library (named the Global Soil Spectral Calibration Library) and their use of the soil property estimation service;
- Harmonize soil spectroscopy methods (including soil sample preparation, spectral measurement, and quality assurance of data analysis) by developing standards and protocols;
- Help countries build the capacity for estimating soil properties using soil spectrometry.

2020-2021 | Lessons learnt

- Building a centralized database by sending soil samples to KSSL
- Focusing on MIR spectra with master instrument at the first stage of development
- National capacity development
- The Ninth session of GSP Plenary Assembly endorsement
- Proposing new objectives of the GLOSOLAN-Spec

New objectives of the GLOSOLAN-Spec

- To support the development of all types of soil spectroscopy at national, regional, and global levels.
- To support countries in establishing their own soil spectral laboratories and national soil spectral libraries with standardized methods and decentralized estimation services.
- To continuously support the development of the global spectral estimation services by encouraging countries to share part of existing national soil spectral libraries on a voluntary basis.
- To support the development of standards and protocols for soil spectroscopy, including but not limited to soil sample preparation, measurement protocols, quality assurance, and data analysis and modelling.

Discussion and polls

Do you agree on revised GLOSOLAN-Spec objectives in decision document II?

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Thank you



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