



Food and Agriculture
Organization of the
United Nations

6th Meeting of the
**Regional Soil Laboratory
Network for Africa**
(AFRILAB)

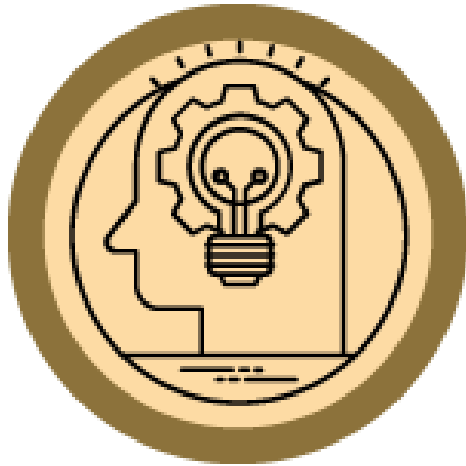
23 October 2024

Next Capacity building activities

GSP Secretariate



GLOSOLAN Capacity development



- GLOSOLAN is actively working to strengthen the analytical capacity of soil laboratories worldwide by organizing training sessions.
- Have hosted effective in-person and online training sessions
- Focus now on promoting regional and training sessions which will address specific gaps at the regional and country level

Focus areas



- Wet chemistry
- Physical analysis
- Biological parameters



- Dry chemistry

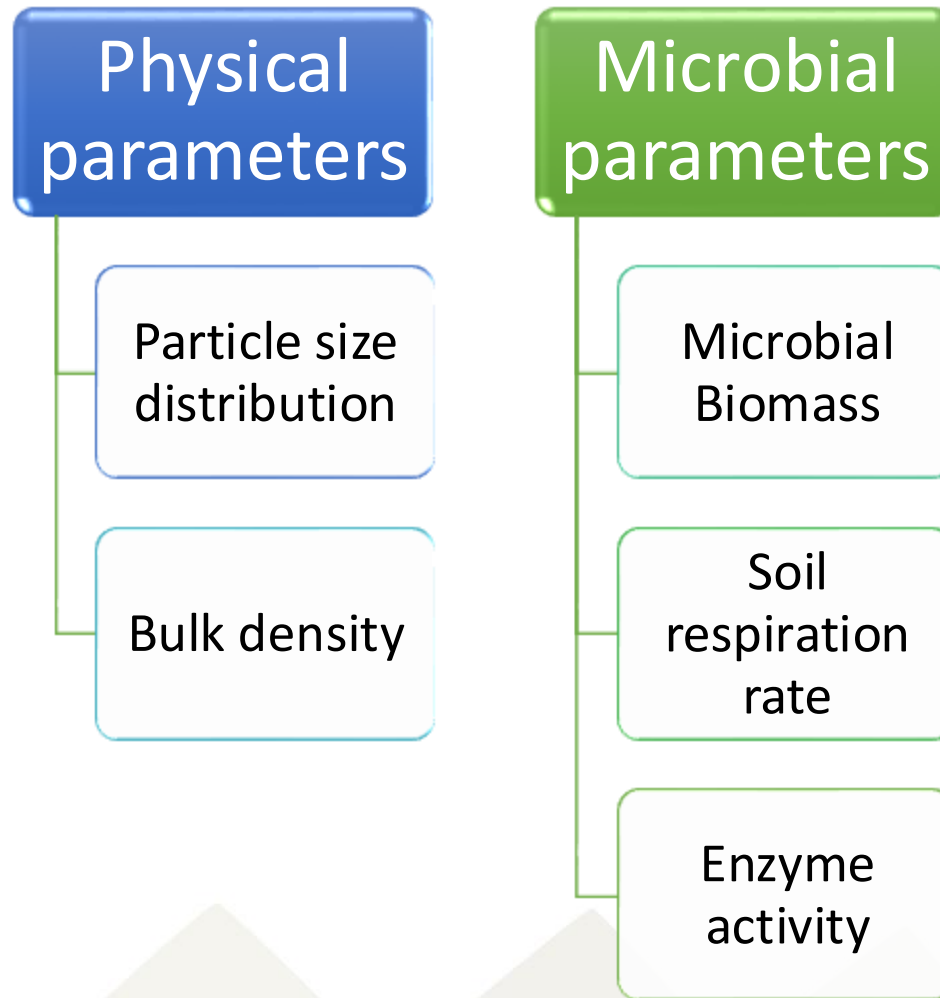


- Quality Assurance and quality control
- Laboratory management

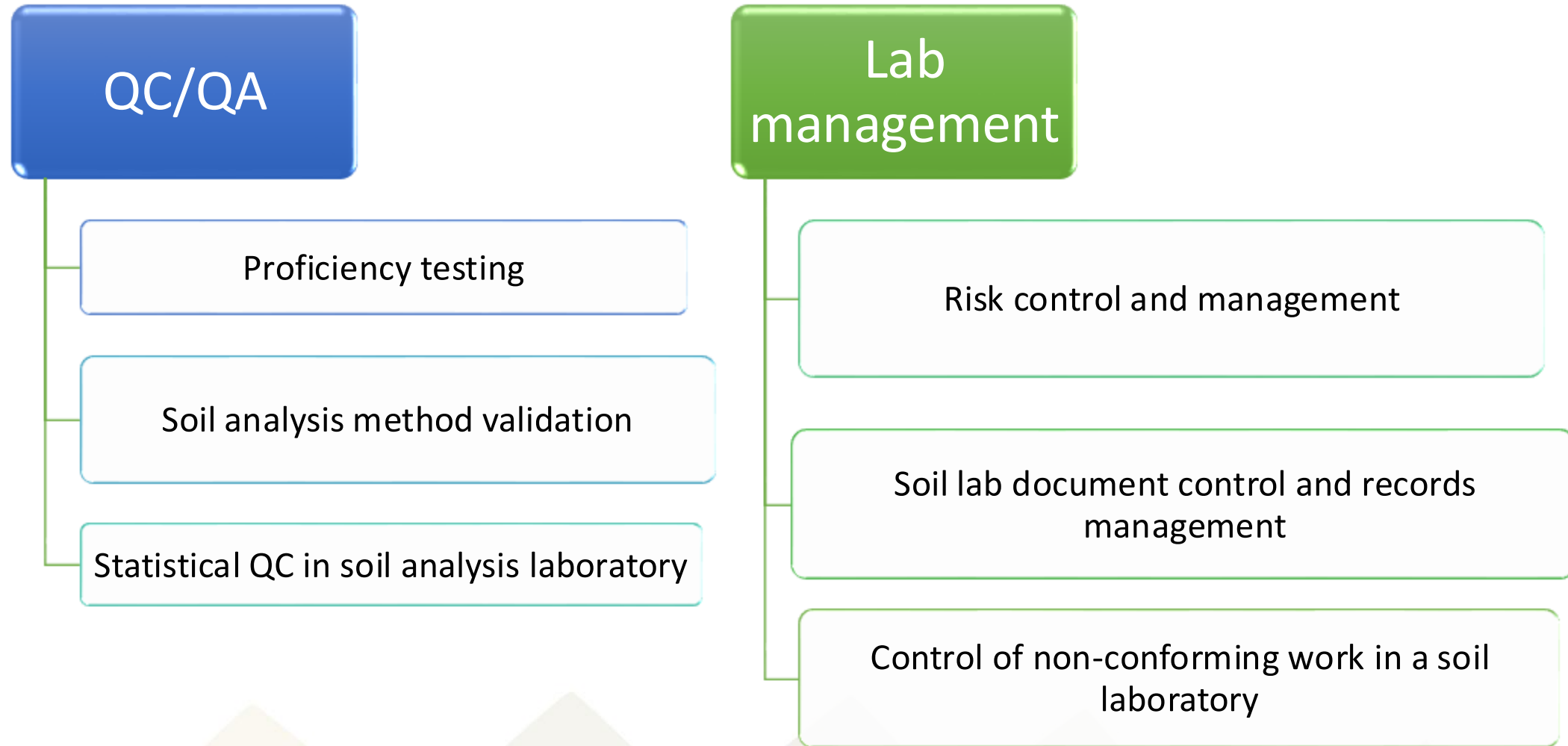
Wet chemistry – Priority parameters

Parameter	Common method	GLOSOLAN Harmonised	Suggested Webinars
SOC	Walkley and Black	<ul style="list-style-type: none"> Walkley-Black method – titration and colorimetric method Tyurin spectrophotometric method 	Walkley and Black
Phosphorus	Olsen and Bray 1	Olsen; Bray I; Bray II, Mehlich I	P – Olsen, Bray - 1, oxalate extractable and KCl
Nitrogen	Kjeldahl	Kjeldahl and Dumas dry combustion	
pH	Soil:water 1:2.5	Soil:water (1:2.5) ; Soil:CaCl ₂ (1:5) and Soil:KCl (1:5)	
Exchangeable cations and CEC		1N ammonium acetate, pH 7.0 method	New GLSOLAN pH SOP
Extractable micronutrients		DTPA extraction method	Kjeldahl nitrogen digestion DTPA extractable micronutrients
Boron		Hot water extraction	
EC and total soluble salt content		soil/water, 1:5 and Saturated soil paste extract	

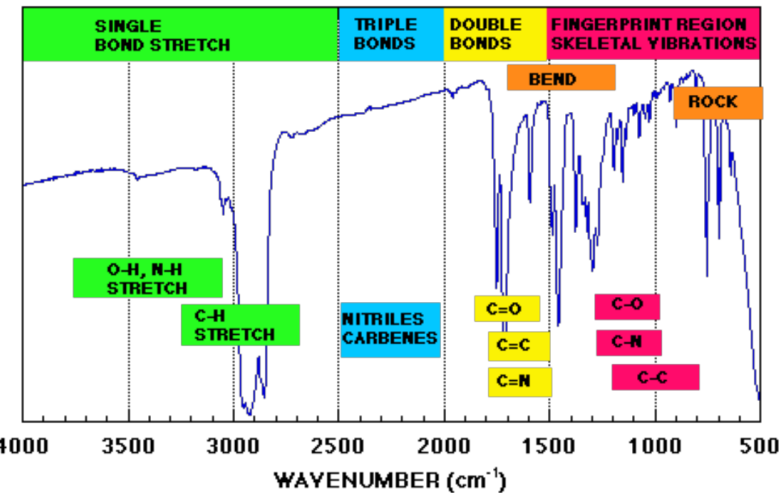
Physical and biological– Priority parameters



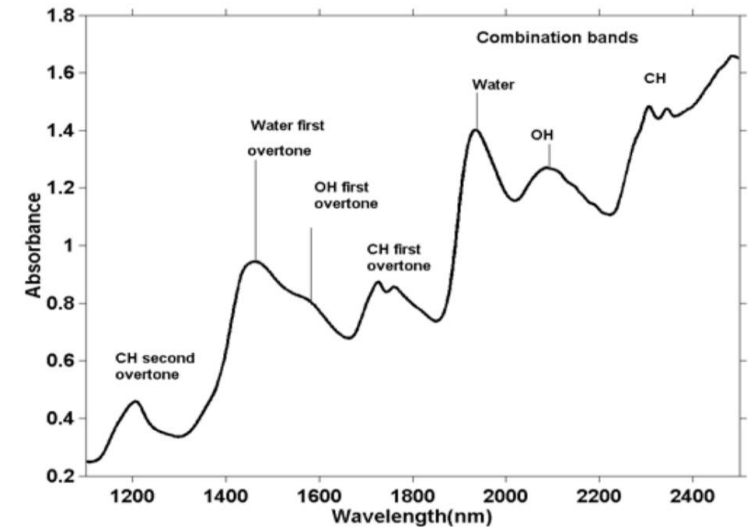
QC/QA and Lab management



Dry chemistry



- Fundamentals of vis-NIR and MIR for soil analysis
- Procedures for vis-NIR and MIR soil analysis



- Webinar series will also be hosted by GLOSOLAN-Spec throughout the year on various topics

Implementation



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Discussion

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Thank you

