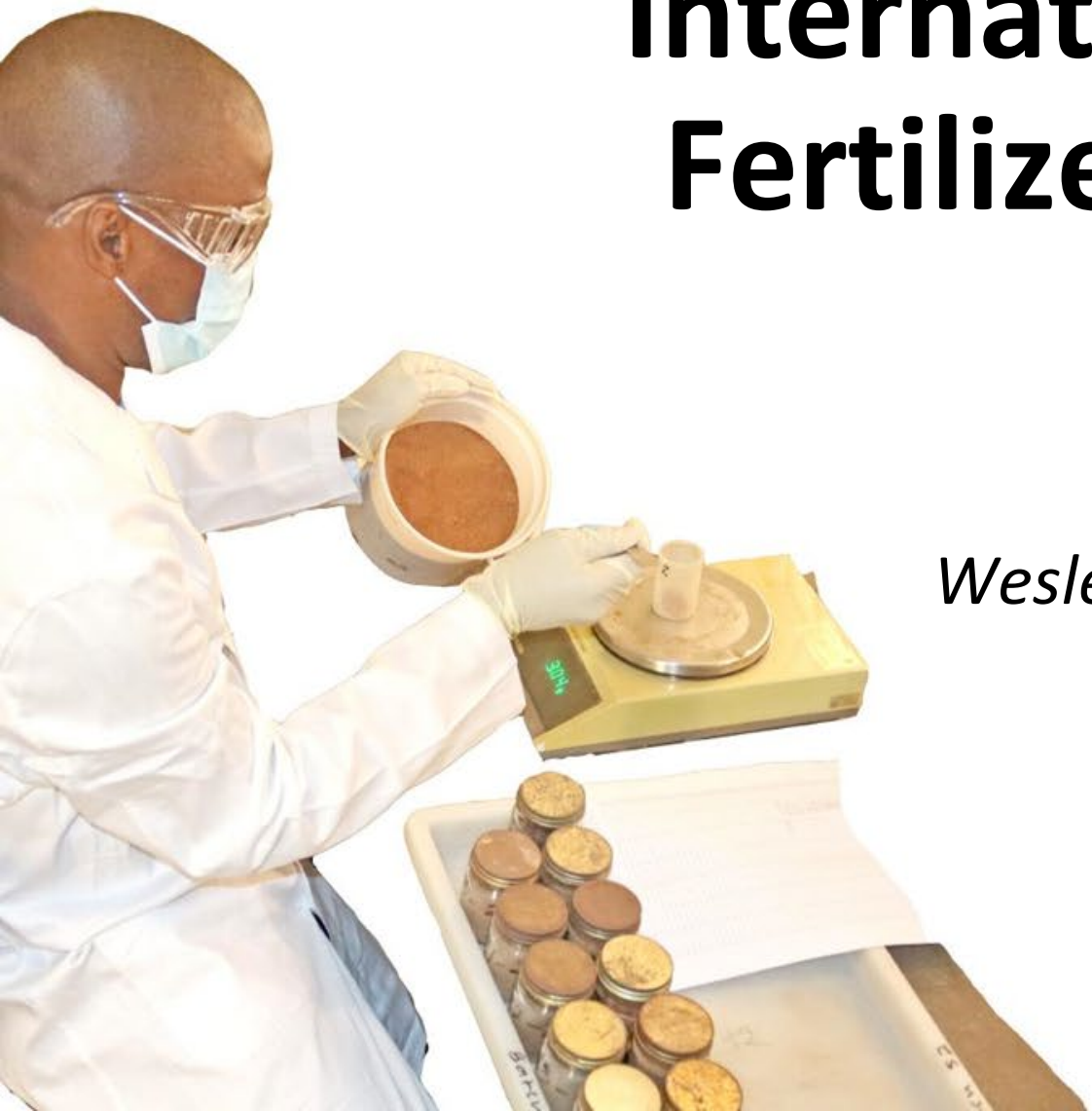


International Network on Fertilizer Analysis - INFA



General Update

Wesley Feldmann, INFA Chair

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



GLOSOLAN
GLOBAL SOIL LABORATORY NETWORK

INFA: International Network on Fertilizer Analysis

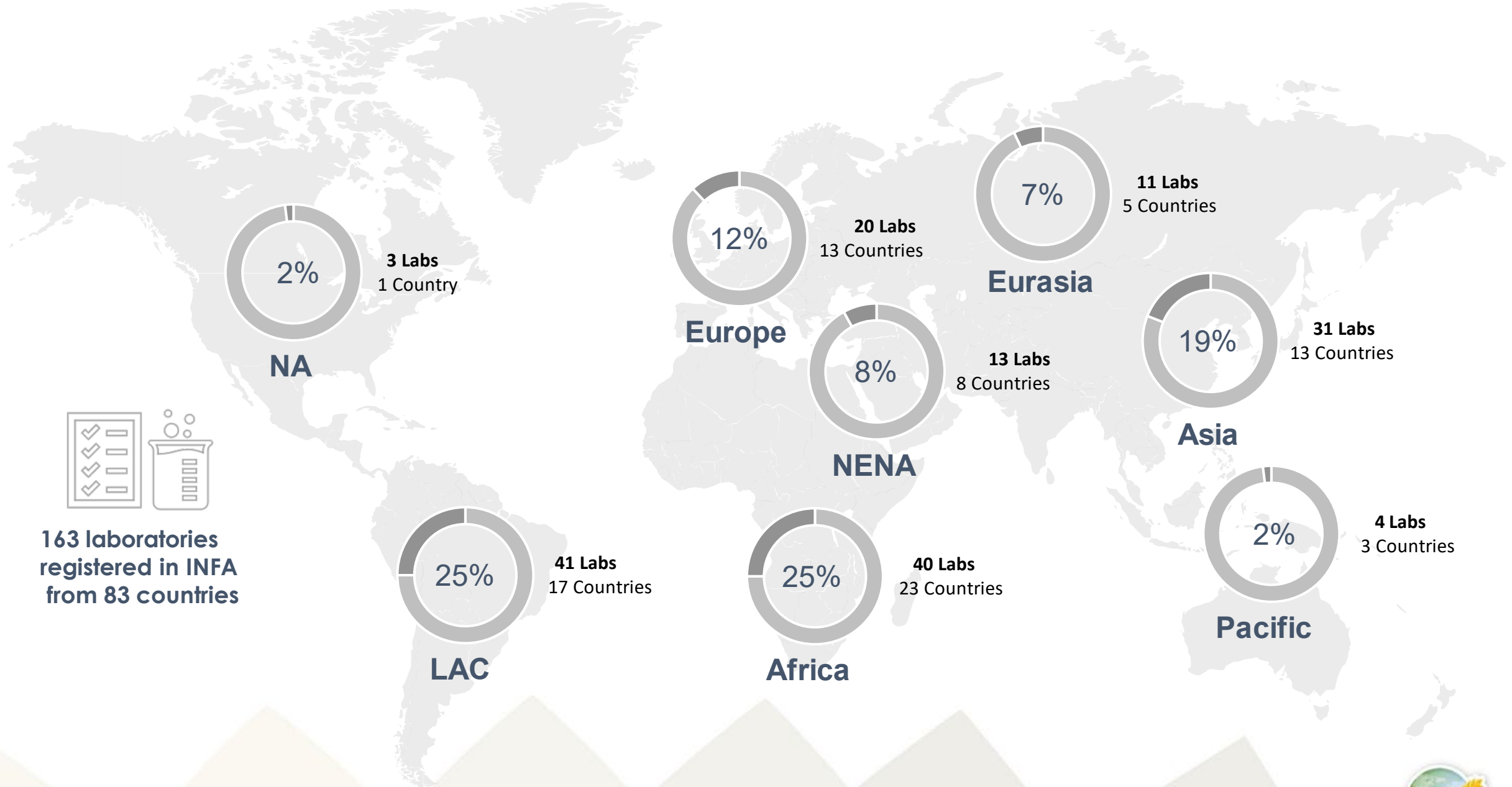
“Investing in harmonized fertilizer quality assessments for sustainable soil and fertilizer management”

- ✓ Launched in December 2020
- ✓ Second Meeting June 2021
 - The objectives and indicators of performance for the network were endorsed
- ✓ Governance:
 - Chair: Dr. Wesley Feldmann (Malawi)
 - Vice-Chair: Dr. Gerardo Ojeda (Colombia)
- ✓ Working groups workshops March 2022
 - Working groups and objectives defined
- ✓ Third Meeting October 2022



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





163 laboratories registered in INFA from 83 countries

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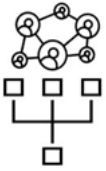
Working Group 1

90

Number of Laboratories

1

Harmonization of Methodologies for Fertilizer Analysis



Initial work covered inorganic fertilizers for NPK:

- Expanded to include organic fertilizers from member feedback (March 2022)

The WG-1 sub-divided into four groups:

WG1.a: Nitrogen

WG1.b: Phosphorus

WG1.c: Potassium

WG1.d: Organic fertilizers



Database template for SOP's harmonization
Currently harmonizing 8 methodologies



1. **Total Nitrogen – Kjeldahl**
2. Total Nitrogen – Combustion
3. Total Phosphorus – Acid digestion
4. Total Phosphorus – Ammonium Vanadomolybdate Absorptiometric
5. Total Phosphorus – Quinoline Gravimetric
6. Total Potassium – Sodium Tetrphenylborate Gravimetric
7. Total Potassium – Water-Soluble
8. Organic Fertilizers

Working Group 2

52

Number of Laboratories

2

Capacity Building/Strengthening

- Strengthen performance of fertilizer laboratories through standardized methods
- Provide training and guidelines (literature + media)
- Currently answering surveys on sample preparation and quality assurance
 - For development of best practice guidelines

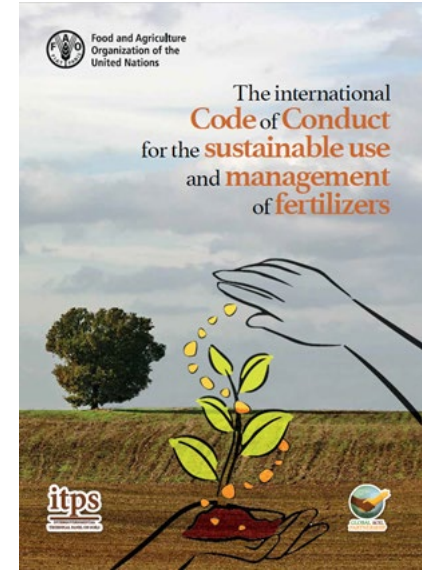


Focus on laboratory support to ensure that laboratories operate effectively to obtain accurate and reliable results for Working Group 1.

Priorities for documents and associated videos

WG-2a: Sample Preparation (for laboratory analysis)

WG-2b: Quality Assurance



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Working Group 3

24

Number of Laboratories

3

Governance, Policy and Regulation



- Regulatory framework regarding fertilizer use and imports at the national, regional and global levels.
- Currently working on a survey covering customs procedures to build a global database with the support of the SIMPLE platform
 - Database is a one-stop location with all information relating to imports and exports of a country



Focal Points

Sección 1 de 4

NATIONAL CUSTOMS PROCEDURES

Objectives.

- To identify laboratories that qualify for receiving fertilizer samples for proficiency testing under an importation procedural point of view.
- To collect information on customs control procedures.

This information will be used to create a global open access database to be used as a reference by anyone interested in launching proficiency testing exercises or in need to send fertilizer samples abroad.

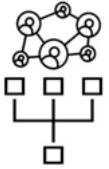
I. GENERAL INFORMATION

Future Work and Objectives

1

Working Group 1:

- Harmonization of protocols for N, P, K and Organic Fertilizers
- Drafting of SOP's
- Review + Final Publication via FAO



2

Working Group 2:

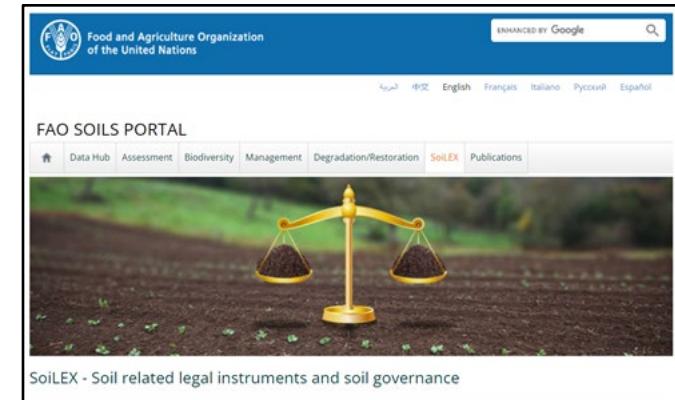
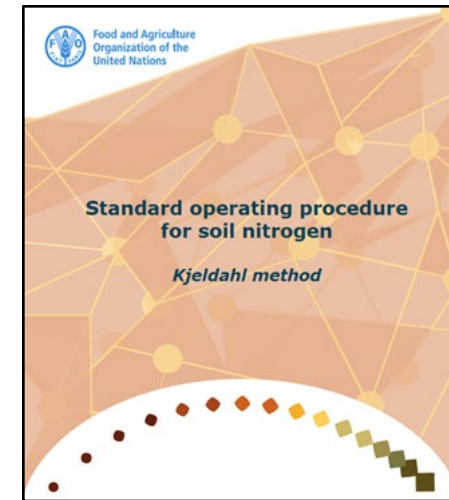
- Drafting of best practice guidelines
- Planning for video material



3

Working Group 3:

- Collation of the data received
- Communication with FAO focal points in respective countries
- Review of data
- Construction of database



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Conclusion

S



Encourage soil laboratories and other key stakeholders to join INFA and implement agreed activities including harmonization, policy and regulations



Join INFA!



Proficiency tests

Long term goal: Future proficiency tests (samples shipment, laboratory analysis, fertilizer standards)

Facilitate the search and access to information related with fertilizer regulatory frameworks for imports and exports at the national, regional, and global levels.



Facilitate search for data & info



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**Thank you for your kind
attention**

