



Food and Agriculture
Organization of the
United Nations

GLOBAL SOIL PARTNERSHIP

12th Plenary Assembly

03-05 June 2024

INTERNATIONAL NETWORK ON SOIL BIODIVERSITY & THE GLOBAL SOIL BIODIVERSITY OBSERVATORY

Prof Peter de Ruiter NETSOB Chair Emeritus





NETSOB Objectives

Launched

December 2021

Members

1032 NETSOB members
from around the world

Governance:

Chair
4 vice-chairs
NETSOB Board

Meetings:

Annual Meeting
and WG workshops

- Strengthen the **knowledge** about soil biodiversity;
- Provide **critical mass** for the implementation of the **Global Soil Biodiversity Observatory (GLOSOB)**;
- Contribute to **monitoring of soil biodiversity** status and loss and develop internationally accepted **biological indicators**;
- Provide reliable evidence to support **decision-making** at the policy level in sustainable use of soil biodiversity.

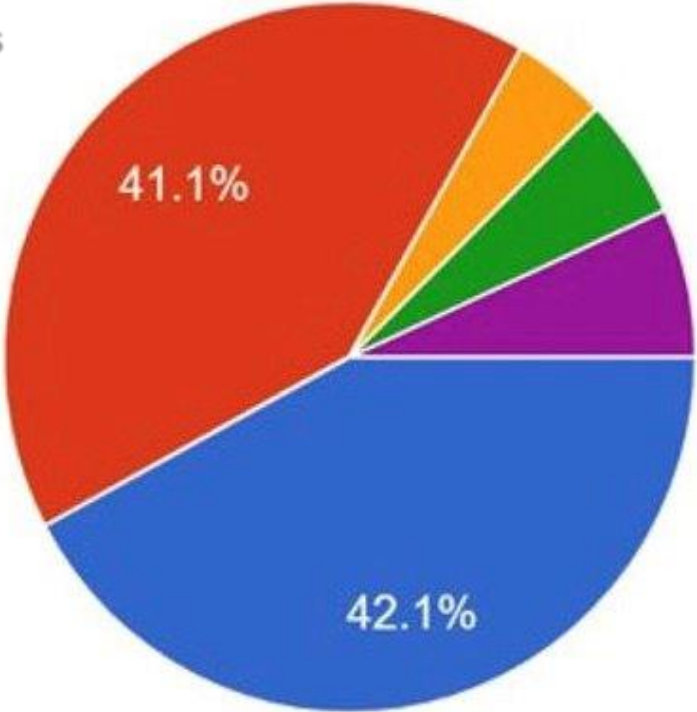
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NETSOB Working groups

Members

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from around the world



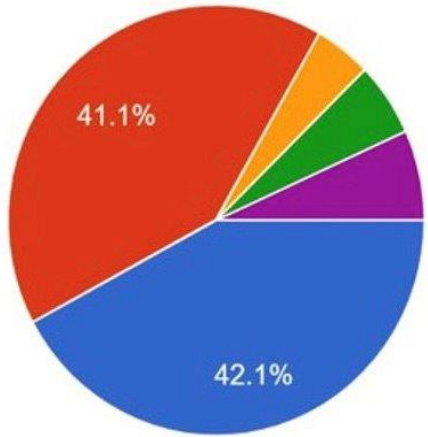
- **WG1: How to measure soil biodiversity**
- **WG2: How to manage soil biodiversity**
- **WG3: How to economically value**
- **WG4: How to develop effective policies**

No specific WG has been selected





WG1: How to measure soil biodiversity

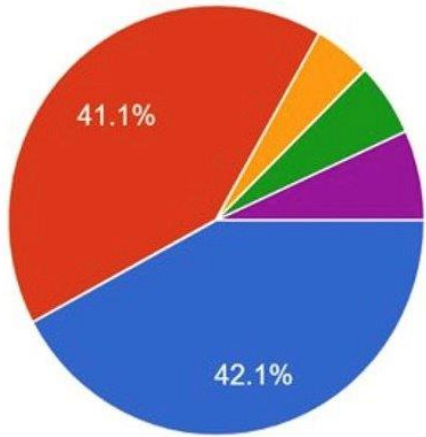


- A global survey was organised regarding soil biodiversity measurements all over the world (>**2000** responses)
- A webinar on the global survey was held on November 17, 2023, with >**300** registrants.
- A synthesis of the survey findings will be published in a special issue of the journal **Soil Organisms** in **2024**.





WG1: How to measure soil biodiversity



Standardized Operational Procedures (in close cooperation with GLOSOLAN)

- 2 completed, 1 in review, 2 in progress

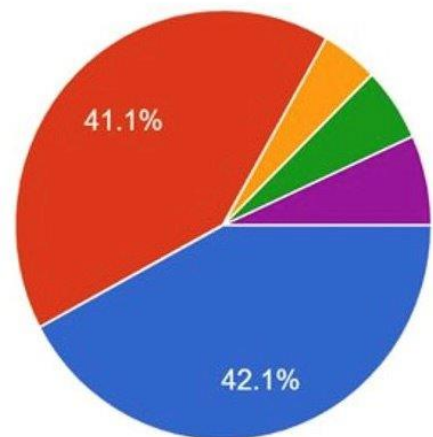
Publications

- **Soil biodiversity knowledge and use worldwide: Results from a global survey**
- Towards a Global Soil Biodiversity Observatory (GLOSOB): scientific and political contexts
- Soil microbial communities, biodiversity assessment methods, uses and patents worldwide: Current state of the art
- Soil micro and mesofauna biodiversity and use worldwide: State of knowledge in the last decade
- Soil macro and megafauna knowledge worldwide: State of the art





WG2: How to manage soil biodiversity



Call for Case Studies and Chapters on Best Management Practices

9 Case Studies; 7 Chapter Submissions

Launched **Global Survey on Management Practices** to improve or preserve Soil Biodiversity (May 22, 2024)

<https://forms.gle/Rzfux2QMVMiN1wHJ8>

Publication

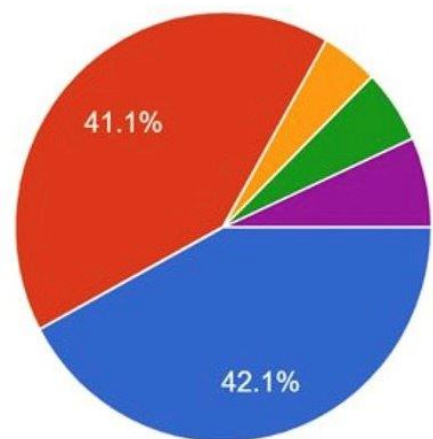
- **The threat-work: a network of potential threats to soil biodiversity**

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- **WG3: How to economically value**
- **WG4: How to develop effective policies**



Joint Publications:

- **Valuation of ecosystem services and the international soil biodiversity policy framework**
- A bibliometric analysis of economic valuation of ecosystem services provided by soil biodiversity

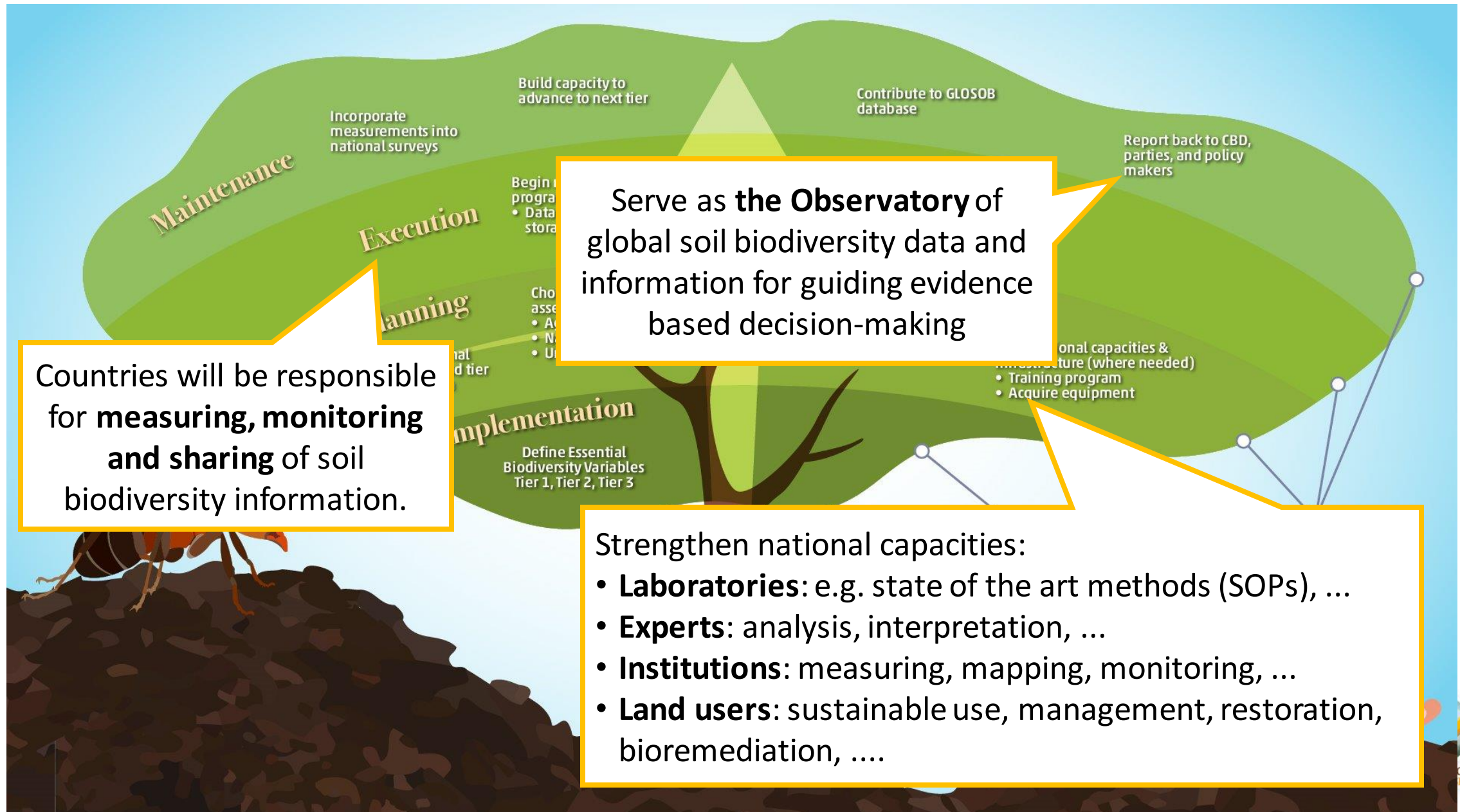


GLOSOB: monitor and forecast the condition of soil biodiversity

- The Conference of the Parties (**COP15, Montreal 2022**) adopted the **Plan of Action 2020–2030** for the International Initiative for the Conservation and Sustainable Use of Soil Biodiversity.
- To fulfill this initiative **NETSOB** produced a **concept note** for the Global Soil Biodiversity Observatory (**GLOSOB**), approved by the NETSOB board (January 2024) and ITPS in March 2024.
- **GLOSOB** will **improve knowledge** about soil biodiversity and about the impact that human activities have on soil biodiversity and on the ecosystem services that soil provides.
- **GLOSOB** will **monitor and forecast** the condition of soil biodiversity and soil health for developing policies, promoting good practices, and developing national capacities on the state-of-the-art tools and methods on soil biodiversity and soil health assessments.



GLOSOB: monitor and forecast the condition of soil biodiversity





In Memory

Diana Wall

December 27, 1943 – March 25, 2024

Groundbreaking soil ecologist

NETSOB Board (January 2024)

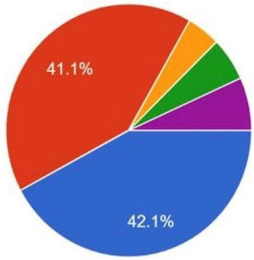


NETSOB new Chair



Professor Dr Brajesh Singh

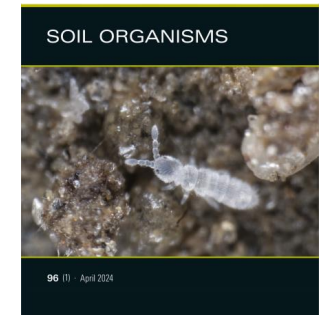
Suggested actions by the Plenary Assembly



**1032 NETSOB
members**

- Encourage national experts and stakeholders to **Join NETSOB!**

- Look out for the **2024** special issue! (**Open Access**).



- Join and support the development of **GLOSOB** for monitoring soil biodiversity and soil health.



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THANK YOU

