



Food and Agriculture  
Organization of the  
United Nations

# Launch of the **International Network on Soil Biodiversity**

in the framework of the  
Global Soil Biodiversity Observatory

3<sup>rd</sup> December 2021 | 🕒 14:00 CET  
Online meeting



# Global Initiative of Crop microbiome And Sustainable Agriculture

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# Objectives of the Initiative:

## **Mission:**

To establish and promote **innovative farming and farm management practices** based on system approaches which harness natural resources **to sustainably increase farm productivity, food quality, livelihood and environmental health.**



## **Short term outcomes:**

- Impact of agriculture practices on soil biodiversity and health
- Process that govern plant microbiome assembly
- Identity of plant-beneficial and core microbiome
- Soil biodiversity contribution to farm productivity
- Biological indicators of farm productivity and sustainability

**Long-term outcome:** Cutting edge innovative microbial and plant products for **transformational change in key agribusiness sectors – scale similar to human microbiome**



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# Economic and Policy Outcomes:

- Economic growth/ job creations in regional area
- Sustainability/ Biodiversity
- Climate mitigation (Cop 26)
- Improving livelihood
- Capacity building via training



# Approach:

**Target crops: Wheat, Rice, Corn, Potato, Cotton**



- 250 sites/ each crop sampled globally
- Soil: rhizosphere and bulk soils + 50 -100 sites 'natural' sites
- Plant: leaf, stalk and roots

## **For each crop**

- 25,000 samples for biodiversity study

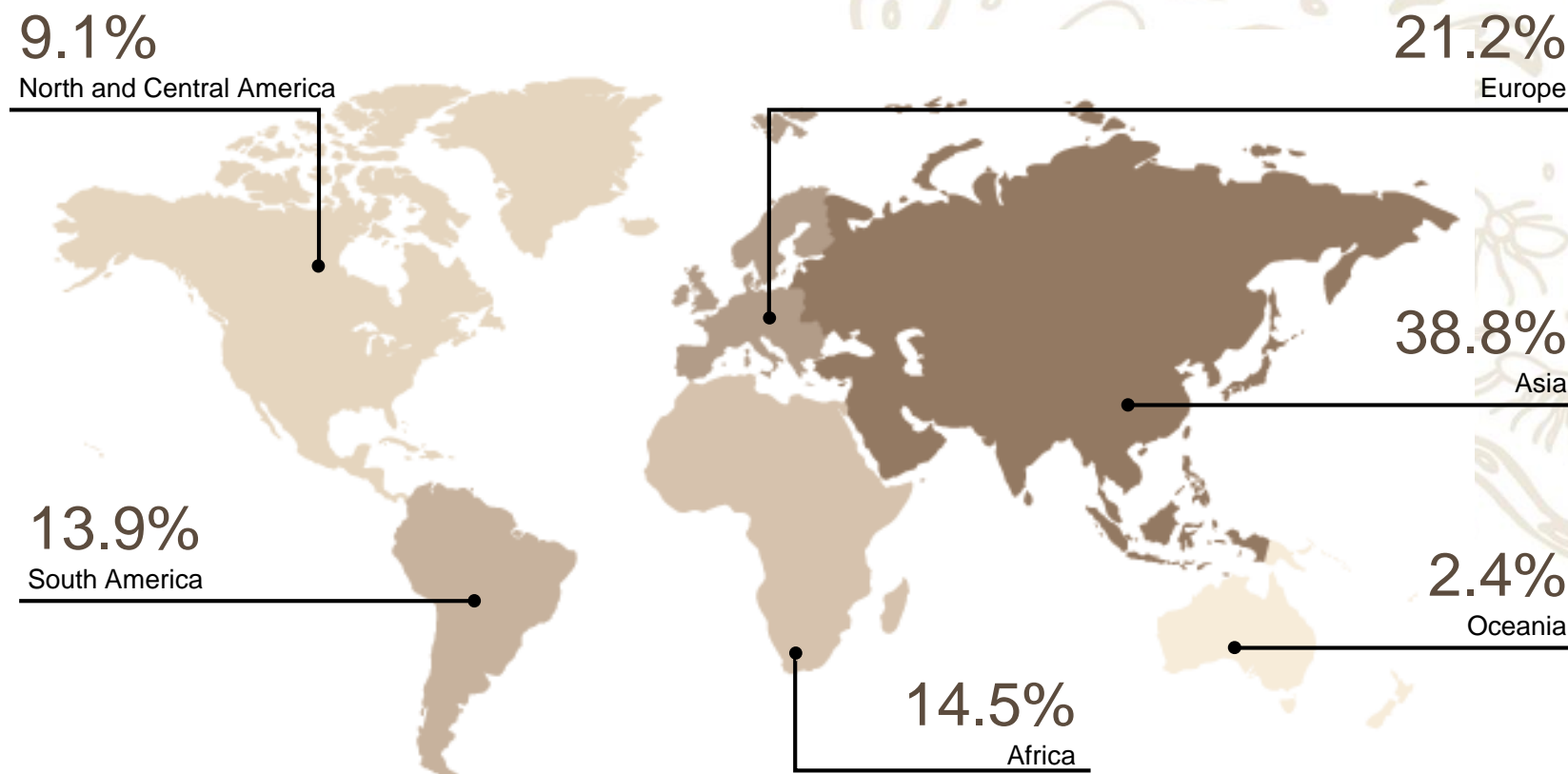
**Most comprehensive global soil biodiversity study**





# Participation map:

Total 152 groups from 78 Countries



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# Working in partnership



<https://www.globalsustainableagriculture.org>

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