



Food and Agriculture  
Organization of the  
United Nations

# 20<sup>th</sup> Working Session of the Intergovernmental Technical Panel on Soils (ITPS)

19-21 March 2024

## International Network of Black Soils (INBS): progress report

Lúcia Anjos

INBS lead expert in the ITPS

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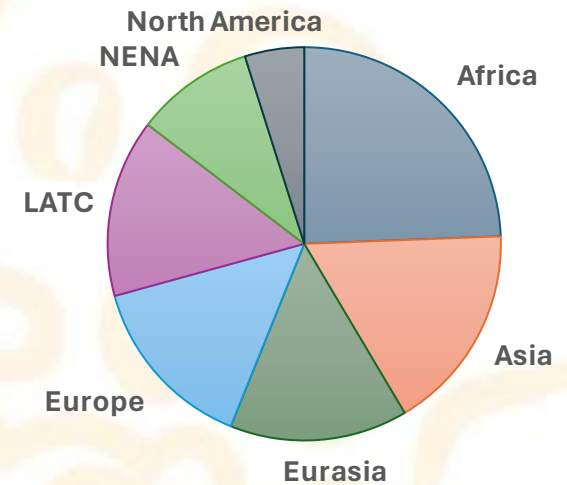
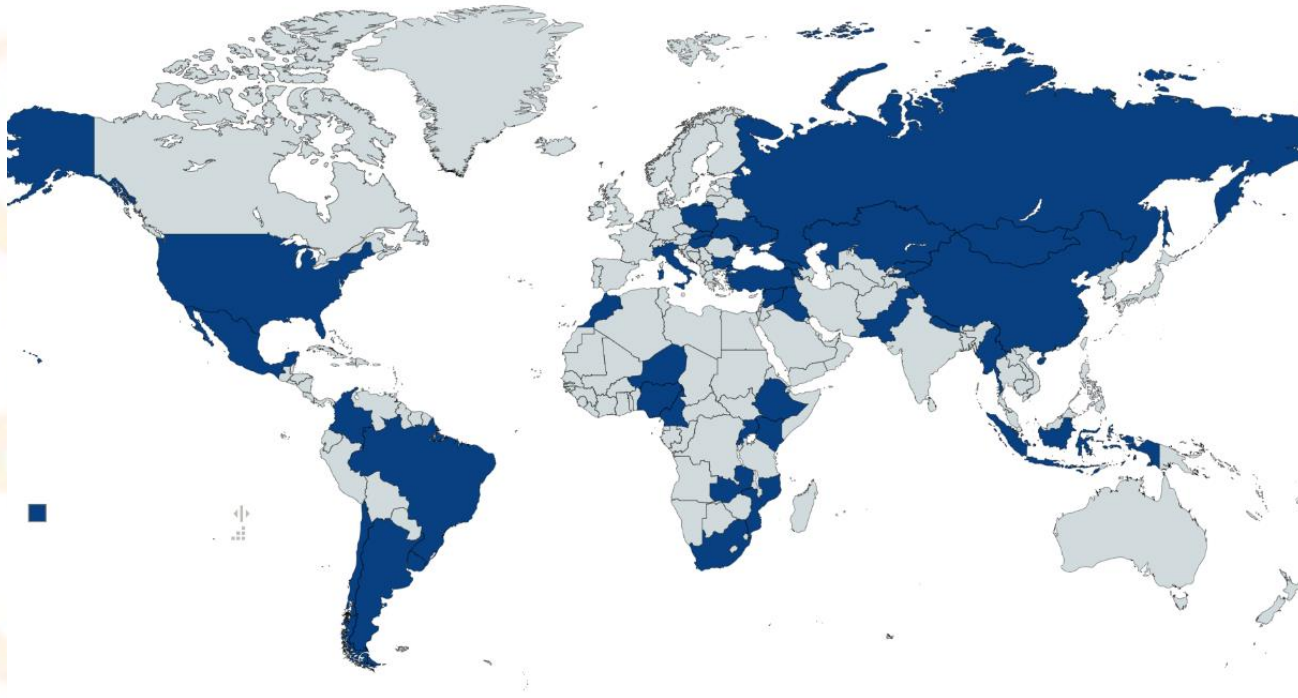


# Launch of INBS

- Considering the great importance of Black Soils and the risk of **severe degradation**, it has become crucial to promote their conservation and sustainable use; and
  - To unlock their potential in the longer term to support **food security** while protecting the environment and **mitigating climate change**.
- On the basis of recommendation of the FAO's Global Soil Partnership (GSP) on the UN's Sustainable Development Goals (SDG), and the discussions and decisions from the Global Symposium of Soil Organic Carbon, the International Network of Black Soils (INBS) was launched in Rome, in March 2017.



# Members of INBS - 41 Countries and 1 Union



## New INBS countries

|          |
|----------|
| Cameroon |
| Nigeria  |
| Ethiopia |
| Niger    |
| Uganda   |

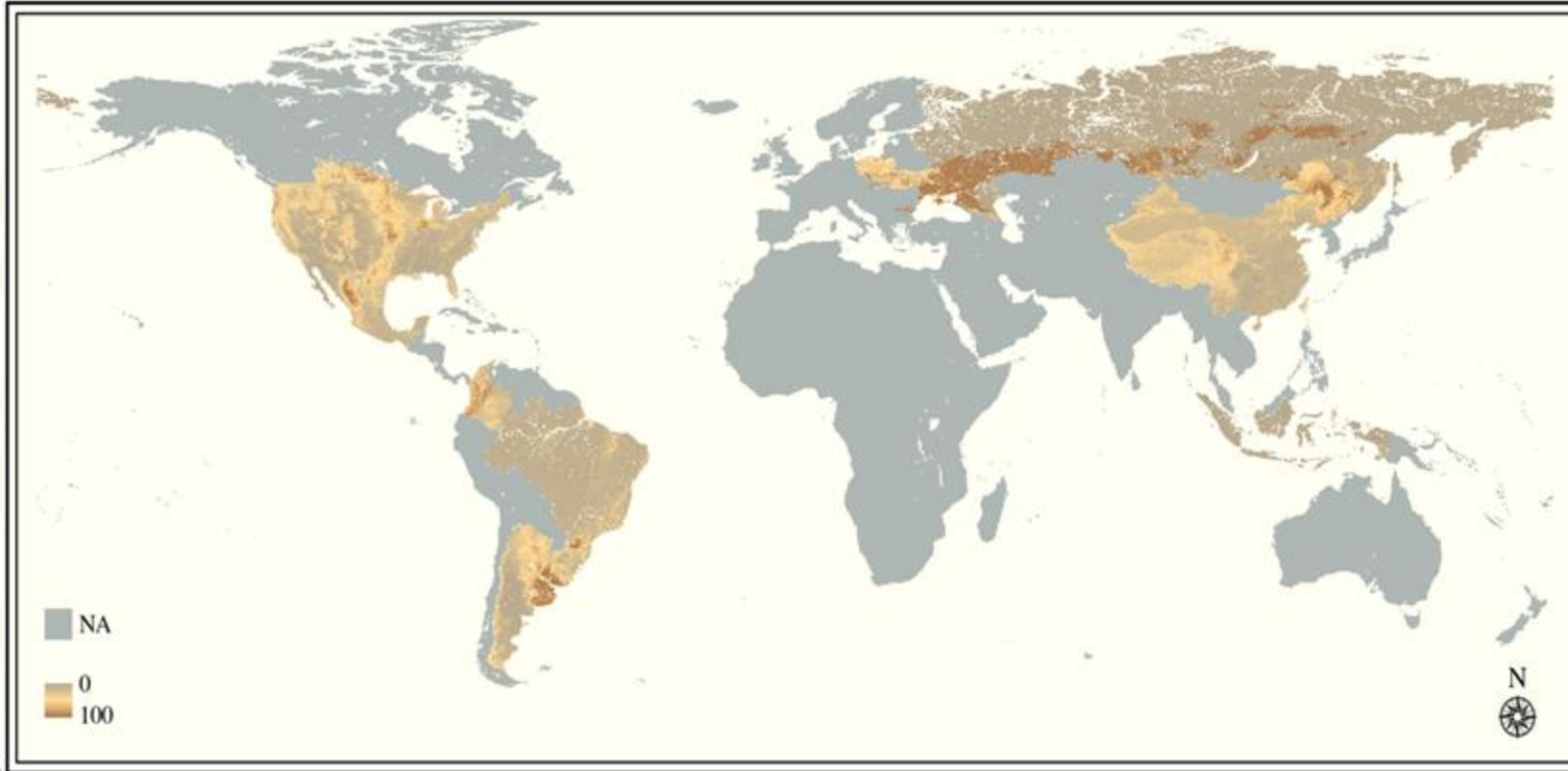
■ Africa ■ Asia ■ Eurasia ■ Europe ■ LATC ■ NENA ■ North America

## Global distribution of Black Soil member countries in the INBS

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# Global Black Soils Map – National Submissions



## Method:

1. Argentina (probability map)
2. Brazil (probability map)
3. Bulgaria (detailed polygon maps)
4. Canada (probability map)
5. China (probability map)
6. Colombia (probability map)
7. Indonesia (detailed polygon maps)
8. Mexico (probability map)
9. Poland (probability map)
10. Russian Federation (detailed polygon maps)
11. Slovakia (detailed polygon maps)
12. Ukraine (probability map)
13. United States of America (probability map)
14. Uruguay (probability map)

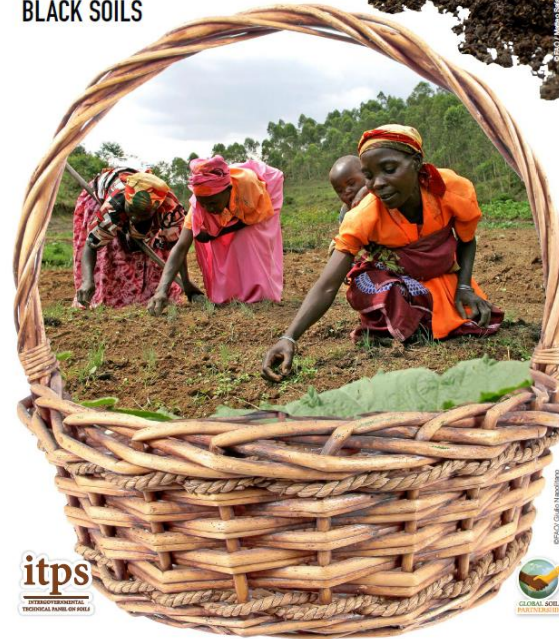
**Black soils probability map**  
(<https://www.fao.org/documents/card/en/c/cc0236en>)

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# ITPS Black Soils Letter #7

- Members of Black Soils Working Group developed the draft version;
  - It was reviewed by all ITPS members in the Black Soils WG and GSP secretariat; and
  - Collected comments from other ITPS members.
- ✓ **Published in June 2023 - A call to protect the world's food basket: black soils.**



# Two webinars organized

- Sustainable Black Soils Management, case studies from Argentina on 24 November 2023
- Sustainable Black Soils Management, case studies from China 6 February 2024

## Speakers:

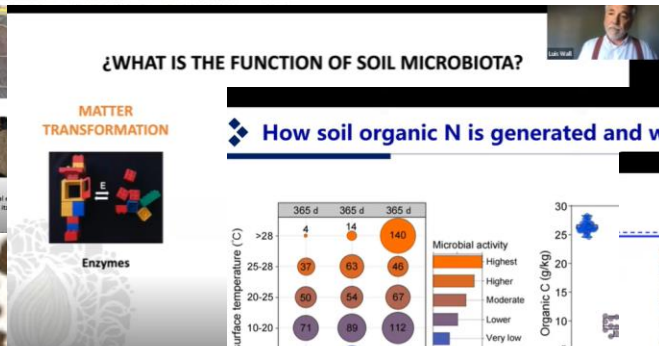
- Mr. Miguel Angel Taboada, Chair of INBS
- Mr Ganlin Zhang, Institute of Soil Science, Chinese Academy of Sciences
- Mr Tusheng Ren, China Agricultural University
- Mr Zhongjun Jia, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- Ms Xueli Chen, Heilongjiang Academy of Agricultural Sciences
- Ms. Ana Beatriz Wingeze, National Institute of Agricultural Technology (INTA), Argentina.
- Mr. Luis Wall, University of Quilmes and CONICET, Argentina



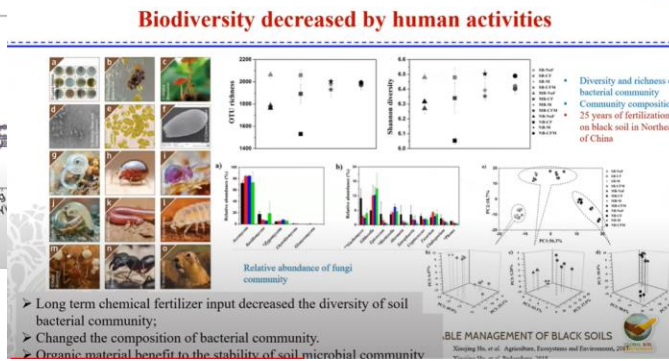
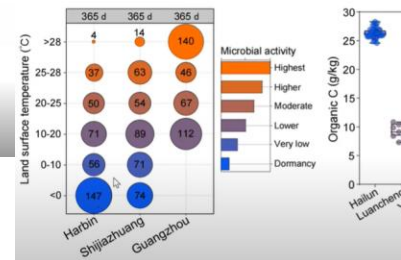
Black soil experts shared successful management practices to improve the health of black soils in the two countries with **more than 600 participants from around the world.**

## Soil quality and resilience

- SOC and fertility depletion
- Physical degradation
- Increased soil erosion potential
- Increased soil degradation



## How soil organic N is generated and why it is high in Black soils



# INBS activities 2024

- Organize **5th Workshop** of the International Network of Black Soils (INBS)  
*9-12 July 2024 in Changchun China*
- Development of a Case Study on sustainable black soil management practices;  
*Table of Content of the Case Study is under development*
- Develop international agreement/guidelines on sustainable management of black soils;  
*Need to be discussed*
- Organize webinars on the topics of sustainable black soil management; and  
*Two Webinars have been organized*
- Prepare scientific papers to be published on the topic of black soils.  
*One publication regarding the GBSmap is under development and ready to submit.*

INBS is open for further suggestions and collaborations  
And **support needed from ITPS**

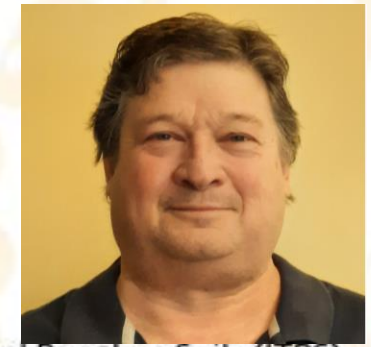


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# Thanks to ITPS Black Soils working group

- Lúcia Helena Cunha dos Anjos
- Ndzana Georges Martial
- JIN Ke
- Guillermo A. Studdert
- Michael Castellano



## Chair and Vice Chair of INBS

- Miguel Angel Taboada
- William May







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**Thank you!**

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