

Initiative “4p1000” Scientific and Technical Committee Vision and Action Plan: soil data

Paloma MELGAREJO-NARDIZ
Scientific Officer
Executive Secretariat
Iniciativa “4 por 1000”



As an introduction: some facts

- A growing population with a (too) slowly decreasing number of undernourished
- An agriculture in the hot sea due to actions in the other economic sectors to reduce GHG emissions
- A need to adapt agriculture and forestry to ongoing climate change



From these facts, 3 guidelines for action

- Act on GHG emissions (mitigation) at all level including agriculture and forestry
- Adapt agriculture and forestry to climate change
- Ensure food security that will otherwise be strongly impacted by climate change

... Through one support: Soils and one action: carbon sequestration



Why storing C in soils?

- **To Mitigate climate change**

- Attenuate GHG emissions.
- OC can be stored in soils for decades to millenia
- Low cost negative emission technology



- **To Adapt to climate change**

- Soil organic matter increases water retention capacity,
- and decreases sensitivity to erosion



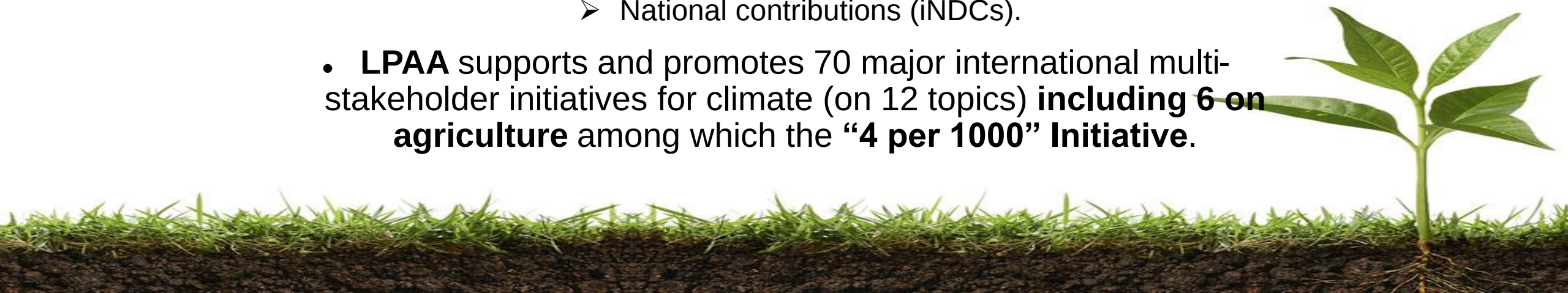
- **To Contribute to food security & restore degraded soils**

- Soil organic matter plays a major role in soil fertility
- As well as yields stability
- It helps restoring degraded soils



Results of COP21 in Paris

- **Historical agreement:** a solid foundation for international climate action
 - recognizing in its preamble the inclusive concept of “**food security**”.
- **Composed of 3 pillars, all including “agriculture and food security”:**
 - The legal instrument of the agreement;
 - Lima Paris Agenda for Action (LPAA);
 - National contributions (iNDCs).
- **LPAA** supports and promotes 70 major international multi-stakeholder initiatives for climate (on 12 topics) **including 6 on agriculture** among which the “**4 per 1000**” Initiative.



DATA4C+ - Interopérabilité des bases de données sur le carbone du sol dans le cadre de l'Initiative 4 pour 1000

Final Feedback Workshop - 17 mars 2022



On December 1st 2015, more than
160 signatories of the declaration
of intent (31 countries)



- **strengthen** public policies, tools and actions
- **maintain or enhance** carbon stock in agricultural soils,
- **encourage** research programs to improve knowledge on soil-carbon storage
- **assess** the performance of farming techniques and methods of restoring degraded land
- **support** a participatory approach to build innovative solutions and their adoption by means of training and education programs
- **share** projects, actions, experience and results



Partners & Members (20th Sept 2021)

FORUM partners

660 signatories of the Declaration of Intent
on objectives sharing

Including 48 countries & provinces, 17 international & regional organizations, 11 foundations & development banks, 231 NGOs, 99 research & education bodies & Universities, 64 Farmers organizations and 190 enterprises

CONSORTIUM Members

295 signatories of the Declaration of Intent
on governance

Chair : **Mr. Stéphane LE FOLL** (ex. Ag. Minister France)

Inc. Vice-Chair : **Mrs. Gabrielle BASTIEN** (Reg. Canada)

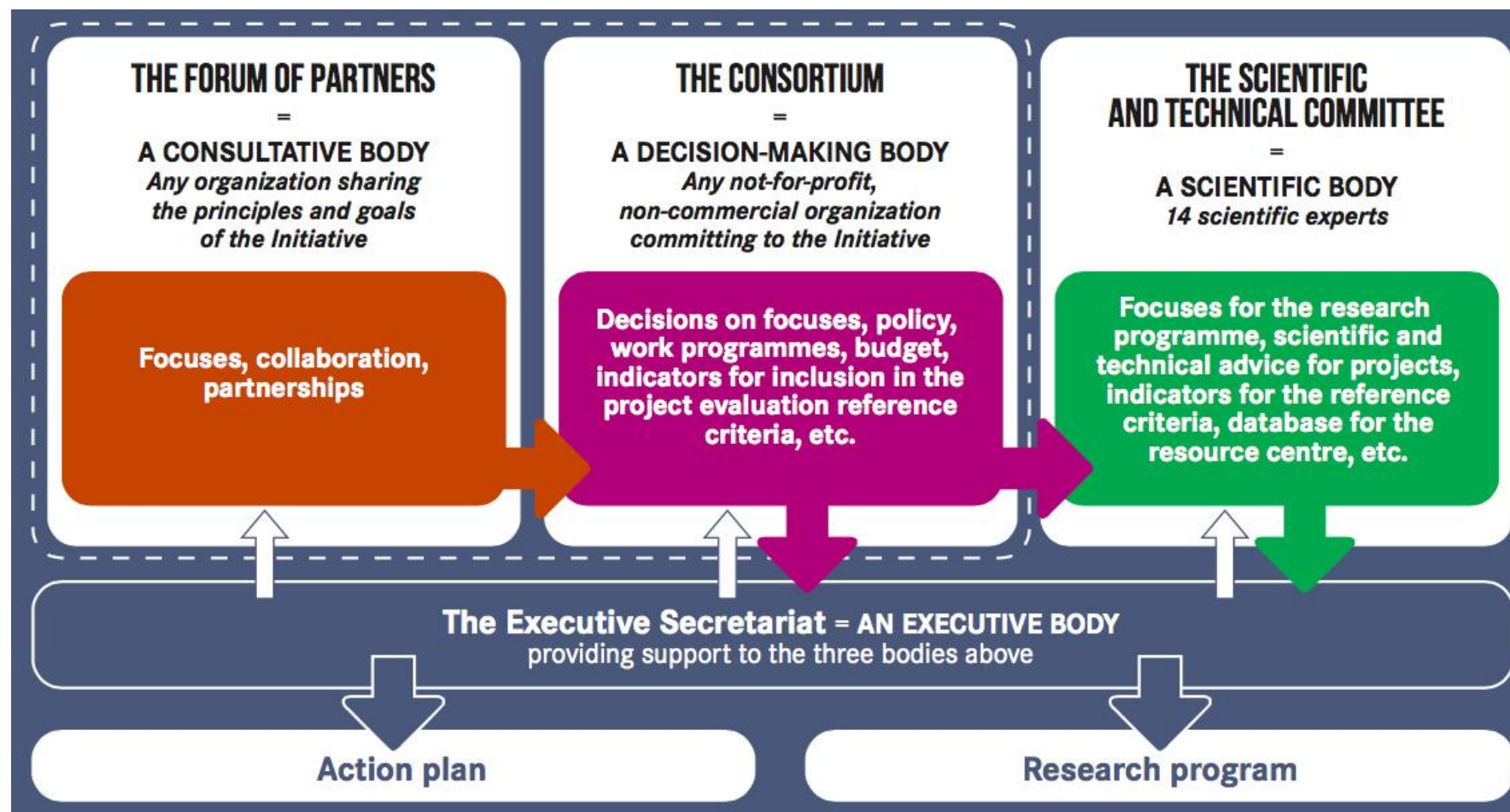
Out. Vice-Chair : **Dr. Ibrahim MAYAKI** (ES NEPAD)



Some Partners & Members in Sept 2021



Governance of the Initiative



Scientific and Technical Committee



PRESENT MEMBERS

AMIRASLANI Farshad – Iran - Chair
CHENU Claire - France
FUENTES-ESPINOZA Alejandro - Chili
HENRY Beverley – Australia - Chair
KOUTIKA Lydie-Stella - Congo Republic
LADHA Jagdish - India
MADARI Beata - Brasil
MINASNY Budiman Australia
RUMPEL Cornelia – Germany - Vicechair
SHIRATO Yasukito - Japan
SOUSSANA Jean-François - France
VARELA-ORTEGA Consuelo - Spain

PREVIOUS MEMBERS

GARCIA CARDENAS Magali - Bolivia
KAONGA Martin - Zambia
SMITH Pete - UK
SOUDI Brahim - Marrocco
WHITEHEAD David - New Zealand
WOLLENBERG Lini - USA
SALL Saidôu Nourou - Senegal

multidisciplinary group formed by 14 high-level scientists of international renown, with a balanced composition in terms of geographical origin and gender

STC ROLE

- **propose a set of benchmarks for the evaluation of projects and actions** based on the principles and objectives of the Initiative, ,and SDGs
- **formulate proposals for the guidelines of the international program for scientific research and cooperation**
- **define the vision and mission of the initiative**
- **provide scientific and technical advice on the implementation, monitoring, reporting and verification of field projects, actions and programs**
- **assess projects** submitted to the 4p1000 initiative
- **discuss issues related to the implementation and the outreach of the initiative**
- **provide advice for the participation of the initiative in the high level political process and the establishment of its relation to other international bodies**
- **elaborate a roadmap**



MAIN RESULTS SINCE 2016

- International Research and Scientific Cooperation Program (<https://4p1000.org/les-priorites-de-recherche-du-4-pour-1000/>)
- Set of reference criteria for evaluation of projects & actions (<https://4p1000.org/criteres-de-reference-et-indicateurs-pour-levaluation-de-projets-version-2021/>)
- Scientific and technical advice for projects: 2019, 2020, 2021 "4 per 1000" Call for formative assessment of projects (<https://4p1000.org/act/calls-for-projects/?lang=en>)
- Participation in COPs
- Participation in Koronivia Joint Work in Agriculture
- Publication of scientific papers (Nature, Ambio, Special issue, Policy)
- Participation of authors and reviewers with FAO documents and manuals
- Participation in workshops, symposia and other events
- Contribution to the Strategy of the Initiative
- Relationships with other related initiatives



The 4PER1000 Initiative's Strategic Plan

(<https://4p1000.org/plan-strategique-de-linitiative/>)

VISION 2050

Worldwide healthy and carbon-rich soils to combat climate change and end hunger.

MISSION 2030

Provide a supportive framework and action plan to conceptualize, implement, promote and follow up actions, on soil health and soil carbon, through an enhanced collaboration between stakeholders of the «Agriculture, Forestry and Other Land Use (AFOLU)» sector, in line with the UN Sustainable Development Goals (SDGs).



GUIDING PRINCIPLES

We believe in:

Soil health is at the center of actions

Farmers/foresters are key actors at the center and managers of their farming/forestry systems

A territorial approach that respects land rights and holders, adjusts to local conditions, follows the subsidiarity principle and strengthens local ownership of action

A science-based and result-oriented approach, with the help of an international multidisciplinary «4 per 1000» Initiative Scientific and Technical Committee (STC)

A «4 per 1000» Initiative Executive Secretariat that facilitates and organizes, and Members and Partners who voluntarily act and implement

A focus on strengthening inter-institutional collaboration.

A multi-stakeholder approach and a public-private cooperation that promote mutual support between actors, open access and open data and optimal allocation of resources including to farmers/foresters

The ability to learn, agility, willingness and team spirit at all levels provide the flexibility and drive needed to meet the complex challenges ahead

Gender equality and the empowerment of women and young people in agriculture

The inclusion of ethnic minority groups.

GOALS

Goals are broad long-term aims that define accomplishment of the vision.

6-7	A INCEPTION & CONCEPTUALIZATION	Facilitate the emergence and ensure the feasibility of methodologies, tools and recommendations that foster stakeholders' ability to implement the Initiative on the ground
8-9	B IMPLEMENTATION	Foster enabling environment and/or framework (business model, trustworthy third-party, tutoring, mentoring, amplify impact, scaling up) for implementation on the ground
10-11	C PROMOTION	Raise awareness and advocacy, build trust, encourage partnerships, engagements and commitments of all stakeholders
12-13	D COLLABORATION	Implement an online collaborative platform that facilitates and supports interaction between partners, with powerful tool box, business plan and knowledge management strategy
14-15	E FOLLOW UP	Establish an international science based framework recognized by all stakeholders for the assessment of impact through monitoring, reporting & verification
16-17	F CROSSCUTTING ACTIONS	Implement the «4 per 1000» Initiative by initiating and promoting targeted actions on the ground and increase resource mobilization to ensure the long-term viability of the Initiative.

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A- INCEPTION & CONCEPTUALIZATION

- A1 NDCs -
- **A2 Project Development**
- **A3 Share Experiences**
- **A4 Stakeholder Interaction**
- A5 Carbon markets
- A6 Conceptual Framework

B- IMPLEMENTATION

- B1 Investment Plans
- **B2 Technology Database**
- **B3 GAFOLUP Help-desk**
- **B4 MRV Tools**

6 GOALS 24 OBJECTIVES

C – PROMOTION

- C1 Advocacy & Awareness
- C2 Urge Soil Regeneration
- C3 Increased investments
- C4 Branding & Certification

D – COLLABORATION

- **D1 Collaborative Platform**
- **D2 Regional Networks**
- D3 Youth & Seniors
- D4 Partnerships & Alliances

E – FOLLOW UP

- **E1 MRV Systems**
- **E2 Soil Health Observatory**
- E3 Impact Assessment

F- CROSSCUTTING ACTIONS

- F1 Twin Regions
- F2 Resource Mobilization
- F3 "4 per 1000" Dashboard



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www.4p1000.org

More on....

