Members of the Scientific and Technical Committee

Feb. 2026

4 PER 1000
SOILS FOR FOOD SECURITY AND CLIMATE

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The Scientific and Technical Committee (STC) as part of the governance structure of the initiative

The Initiative operates through four bodies:

- **The Consortium of Members**, where decisions are taken,
- **The Forum of Partners**, where multi-stakeholder collaborations are fostered,
- **The Scientific and Technical Committee (STC)**, where scientific and technical expertise are provided,
- **The International Executive Secretariat** provides assistance and supports to the 3 other bodies.

The STC comprises 14 scientists or practitioners, all recognized for their scientific or technical competence on topics relevant to the international "4 per 1000" Initiative. STC members are notably experts in the following disciplines: soil sciences, the carbon cycle, agronomics, land tenures, farming, forestry, environmental sciences, GIS or remote sensing, data sciences, economics, political sciences and sociology, with the following areas of application: food and nutrition security, adaptation or mitigation to climate change, and development. The composition of the STC assigns a significant role to expertise in the field. It takes into account the world's various regions and shall ensure gender balance.

STC members are appointed for a two-year term renewable twice by decision of the Members of the Consortium. One third of the STC members shall be replaced every two years if possible, so that a complete exchange of STC members is reached within a period of 6 years. This rule is implemented in a flexible manner in order to avoid discontinuity in the functioning of the STC.

Specifically, the STC is tasked to:

- **propose to the Consortium and update**, a **set of reference criteria for the evaluation of projects and actions** founded on the principles and goals of the Initiative as defined in the Paris Declaration, as well as on the Sustainable Development Goals;
- **formulate opinions and advice on projects, actions and programs** at the request of the Consortium or the Secretariat;
- **formulate and update priorities in support of international scientific research and cooperation programs**
- make **contributions to the resource centre** in conjunction with the Secretariat and, when asked to do so by the Secretariat,
- **validate the posting of documents online**.

Additionally, the STC may support other scientific and technical tasks such as but not limited to:

- providing advice and input for the scientific and technical aspects of the Initiative, including:
  - proposed actions;
  - implementation of the strategic plan;
  - documents produced and published;

- supporting the dissemination of knowledge related to Soil Health and other aspects addressed by the Initiative, through, e.g., policy briefs, scientific papers, webinars or conferences;
- assessing projects in the framework of the calls organized by the Executive Secretary;
- communicating with the College of Research and Educational Bodies of the Forum of the Initiative on training, capacity building, technology transfer, data management, and research activities;
- consulting when deemed necessary any external expert it considers relevant to its activities.

The STC carries out its assigned tasks by means of physical and virtual meetings with support from the Executive Secretariat. The members of the STC may appoint from among their members STC chair, deputy chair and/or co-chairs. The STC chair, deputy chair and/or co-chairs may take part in meetings of Consortium members and Forum meetings.

Statements of interest shall be produced by each STC member and updated every year. STC members may provide advice for the development of activities and public policies only if they have demonstrated the absence of any conflict of interest.

The Committee members serve in a voluntary capacity and are able to claim travel expenses.

The STC also serves as the scientific committee of "Soil Carbon Futures" (Former Soil Carbon International Research Consortium).

Former members of the Scientific and Technical Committee

- Magali GARCIA CARDENAS (Bolivia) – 2016 - 2020
- Claire CHENU (France) – 2016 - 2025
- Alejandro FUENTES ESPINOZA (Argentina) – 2020 - 2025
- Martin LECKSON KAONGA (Zambia) – 2016 - 2020
- Cornelia RUMPEL (Germany) - 2016 - 2023
- Saïdou NOUROU SALL (Senegal) – 2020 - 2021
- Yasuhito SHIRATO (Japan) – 2016 - 2023
- Pete SMITH (UK) – 2016 - 2019
- Brahim SOUDI (Morocco) – 2016 - 2021
- Jean-Francois SOUSSANA (France) – 2016 - 2025
- David WHITEHEAD (New Zealand) – 2016 - 2021
- Lini WOLLENBERG (USA) – 2016 - 2022

Present members

Farshad AMIRASLANI (Iran)

Farshad Amiraslani has been involved in dryland management and research over the last 25 years, focusing on interconnected elements of social, ecological and economic aspects in relation to natural resources management. He received his PhD from the University of Sydney in 2011 and has served as Assistant/Associate Professor in Iran, China and the UK since then. He has been a Cheney Fellow (University of Leeds) and Research Fellow at the Chinese Academy of Sciences (UNEP-IEMP).

Throughout his career, he has been elected or invited for various consultancies and publication assignments for the UN and international organizations over the past. Between 2022 and 2025, he served as a Lead Author for the Global Environmental Outlook-7 report (UNEP). He was elected in 2012-13 as one of the twelve global members to serve on the Ad Hoc Working Group on Scientific Advice (AGSA) to develop a new mechanism for science-policy communication for the UNCCD. In that regard, the UNCCD-SPI has been established, a Science-Policy Interface document prepared and an ISI paper in a leading journal published.

At the national level, he has served as a four-year committee member for formulating a National Action Plan to Combat Desertification and served as Assistant to the National Project Director for the Carbon Sequestration Project (in cooperation with UNDP and GEF). He also served as an advisor to Internationalization to the Persian Gulf Science and Technology Park (PGSTP) between 2011 and 2013. He also acted as the Chair of Scientific Committee - Food Security Conference in Western Asia and Northern Africa held by PGSTP in 2013.

At the university level, he has been elected to various committees, including the International Fund-raising Steering Committee. He has held positions such as Deputy Dean (Academic Affairs) and Associate Dean (Internationalization) in the Faculty of Geography, University of Tehran. He has received several international awards and fellowships and has published over 110 publications, including one in journal *Nature*.

Farshad has also served as Vice-Chair and Co-Chair of the STC of the “4 per 1000” Initiative during several years.

Deborah BOSSIO (USA) – Co-Chair

Deborah Bossio is the Lead Scientist for Food Systems and Soil Science at the Nature Conservancy. The Nature Conservancy is a large, science driven, international environmental NGO, working in 70 countries and territories to conserve the lands and waters on which all life depends. At the Conservancy, Deborah is an integral member of the Global Food and Water Systems team, and an active member of the Cabinet of Lead Scientists. She brings science expertise and partnerships to advance climate, agriculture, and conservation priorities. Most recently she is leading efforts for the Conservancy to accelerate action on natural based solutions in agriculture, to address climate, food and environment challenges. She is the lead author for the recent report "Foodscapes: Toward Food System Transition" that describes a vision for nature-based solutions in foodscapes globally.

With Soils Revealed Deborah has spearheaded an effort to enhance the availability of globally standardized soil data through an interactive on-line platform that makes soil data and projections for soil carbon sequestration available to all. Her recent publications have focused on advancing understanding of the opportunity for soil carbon sequestration to help mitigate the climate crisis while sustaining food production. Linking science to practice, including market opportunities, characterizes her work. To support these efforts, she maintains active partnerships with leading research institutions around the world.

Deborah came to The Nature Conservancy (TNC) after spending more than 20 years living and working in Africa, Asia and the Americas working as a science leader in the CGIAR. In that capacity she was based in Kenya, Ethiopia and Sri Lanka, and led research teams on sustainable soil management, food security, climate, and landscape approaches to sustaining ecosystems. Deborah's academic roots are in Soil Biology. She holds a M.Sc. and PhD in Soil Science from the University of California, Davis and is passionate about the pivotal role that soils play in supporting lives and ecosystems.

Rémi CARDINAEL (FRANCE)

Rémi Cardinael is an agronomist and a soil scientist at CIRAD, the French Agricultural Research Centre for International Development. He holds a MSc in agronomy from AgroParisTech (2011), a PhD in soil sciences from University of Paris-Saclay (2015), and the 'HDR' (Habilitation to supervise research) from Montpellier University (2023). Since 2017, he has been seconded at the University of Zimbabwe where he conducts research in partnership on tropical cropping systems.
His early research focused on temperate agroforestry systems and their impacts on soil organic carbon dynamics, with an experience in Canada at the University of Guelph, and later on in France. With this expertise, he contributed to the INRAE expertise in France to evaluate the potential for additional carbon storage in soils using various agroecological practices. He is a Contributing Author of the IPCC 2019 Refinement to the 2006 Guidelines for National Greenhouse Gas Inventories, with the development of Tier 1 emission factors for agroforestry, and a Lead Author for the 2027 IPCC Methodology Report on Carbon Dioxide Removal Technologies, Carbon Capture, Utilization, and Storage for National Greenhouse Gas Inventories (Additional guidance).

With his position in sub-Saharan Africa, he has diversified his expertise, with research projects on intercropping and conservation agriculture and their role for climate change mitigation, adaptation, and food security. More specifically, his work focuses on soil organic carbon and nutrient dynamics, greenhouse gases emissions (especially nitrous oxide) and surface albedo dynamics. He also investigates the impact of climate change, such as rainfall extremes, on soil-plant processes under various cropping systems, using long-term on-station experiments, and a network of on-farm trials. He currently works in several countries in sub-Saharan Africa, but also in South-East Asia.

He is also an Editor-in-Chief of the international peer-reviewed *SOIL* journal from the European Geosciences Union (EGU), and an Associate Editor for the *Agroforestry Systems* journal and formerly for the *Plant and Soil* journal (Springer).

Beverley HENRY (Australia)

Beverley Henry is a plant physiologist with 35 years' experience in academic, government and industry roles related to agriculture and environmental management. She has a PhD from University of Queensland, Australia and is currently an Adjunct Associate Professor at Queensland University of Technology and a consultant.

Beverley's research has focussed on impacts of environmental stress factors on plant physiological function and growth and understanding applications to agricultural productivity and environmental sustainability for farmers through to policy, with a particular interest in issues facing ruminant livestock producers in arid and semi-arid environments. A major aspect of her work since the 1990s has been the science of quantifying and managing greenhouse gas emissions and sequestration, adaptation to climate variability and climate change, and sustainability reporting to address the global challenges of climate change, environmental sustainability and food security. She contributed to the development of land sector accounting for Australia's national greenhouse gas reporting, designing and managing climate change research programs, and method development for carbon credit projects, including as a member and chair of the statutory committee (the Emissions Reduction Assurance Committee, ERAC) responsible for ensuring the integrity of carbon offset methods in Australia's carbon farming legislation.

Throughout her career, Beverley has appreciated working with multidisciplinary experts and mentoring junior researchers. She has valued opportunities to participate in national and international research projects, a range of initiatives, committees and advisory panels on agriculture, climate change mitigation and adaptation land degradation, and specific activities on fostering soil carbon and soil health, including membership of FAO's LEAP Technical Advisory Group for 'Soil Carbon Guidelines', a commissioned review of the potential for soil carbon sequestration in northern Australian rangelands, and a Global Environment Fund review project on Sustainable Land Management for Environmental Benefits and Food Security. Ongoing advisory roles include membership of New Zealand's Ag Emissions Centre Science Program Advisory Panel, adviser to the Queensland Government on greenhouse gas and soil carbon science and policies, and membership of Australian government reference groups for developing new carbon offset methods.

Beverley has served as co-chair of the “4 per 1000” initiative’s STC during several years.

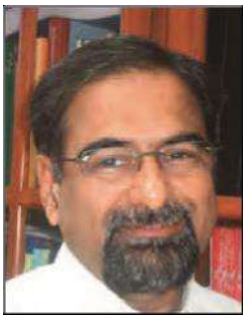
Lydie-Stella KOUTIKA (Congo)

Lydie-Stella KOUTIKA is a soil scientist with over 30 years in agro- ad forestry ecosystems. She is the director and founder of Soil Care and Environmental Studies, (SCES), a non-profit organization. She obtained an engineer degree in agronomy (Timiryazev Institute, Moscow), a PhD in soil science (Université Nancy I, which merged to Université de Lorraine, France), and the '*Habillitation à Diriger des Recherches*' (HDR) (Université de Lorraine).

For the duration of her career, Lydie-Stella has been fascinated with the soil organic matter (SOM) evaluation in different ecosystems, such as natural and planted forests, pastures, croplands, grasslands or savannas to contribute to the conservation of natural resources and ensure food availability. She has worked on how SOM, mainly carbon, nitrogen and phosphorus dynamics, improves soil fertility and regulates nutrient and water retention, soil structure and soil biota. Her research also spans the link between SOM dynamics and both ecosystem biodiversity, and it's increasing impact on the resilience and mitigation of climate change at global scale.

At the beginning of her career, she gained experience in research conducted on Brazilian Amazon ecosystems, Belgium and the Netherlands. That was useful to later design research strategy benefiting to farmers and natural resources management in Central Africa (Cameroon, Republic of the Congo), but also in Kenya. Her research on SOM is oriented to improve fertility of inherently nutrient-poor or degraded soils, to secure food availability, sustain forest productivity, increase resilience and adaptation to climate change and improve the welfare of family farming in Africa. She specifically investigated land-use changes in different ecosystems using SOM status or part of it (C, N, P, microbial biomass, particulate organic matter, fungal and bacterial community structure and diversity) as an indicator of soil and environment health.

She has been a Lead Author (LA) for Chapter 4 '*Land and Soils*' UNEP Global Environmental Outlook 7 (https://www.unep.org/news-and-stories/video/future-we-choose). She is a member of the Sscientific and Technical Committee (STC) for 4p1000 initiative '*Soil for food security and climate*' since 2016, the steering committee for the Congo Basin Science Initiative (CBSI) (https://congobasinscience.net/), and the Intergovernmental Technical Panel on Soils (ITPS) (2025-2028) https://www.fao.org/global-soil-partnership/itps/en/). Lydie-Stella is one of the three co-chairs for the Science Panel for the Congo Basin (SPCB) (https://www.spcongobasin.org/). In 2025, she joined the TG Data (2025-2028) mandated by the Intergovernmental Panel on Climate Change (IPCC) to provide guidance to the Data Distribution Centre (DDC) on curation, traceability, stability, availability. She also acting as Contributing Lead Author for chapter 13 "*Agriculture, Forestry and Other Land Use*" (AFOLU), Working Group III AR7 IPCC (2025-2029). The nominee has published over 60 peer-reviewed papers, some book chapters and books. She is strongly dedicated to her catholic faith and to the development of Africa.



Jagdish LADHA (India)

Dr. J. K. Ladha has devoted more than 32 years to aspects of sustainable management of agriculture and natural resources for increasing food security and environmental quality in developing countries. He is an expert of soil fertility and plant nutrition; serving at different positions since 1980. Currently, he is a Principal Scientist, and an adjunct senior scientist at the Columbia University; associate in the Agricultural Experiment Station at the University of California-Davis. Dr Ladha provided leadership to the Cereal System Initiative System for South Asia and the Rice-Wheat Consortium Project that aims to sustainably enhance the crop productivity. He was a "Frosty" Hill Fellow at Cornell University (July 07–June 08) and an adjunct professor of Soil Science at the University of the Philippines (1990-2004). He was born and grew up in Gwalior, India, and earned his PhD from Banaras University in 1976.

Dr. Ladha is recognized internationally as an authority on sustainable resource management for increasing food security and environmental quality. He has made immense contributions to international agriculture through his research, training, and extension activities in several Asian countries (Bangladesh, India, Nepal, Pakistan, Philippines, and Thailand) on problems across national and regional boundaries. Dr. Ladha is one of those unique scientists who have demonstrated success in conducting both basic and applied research. He has had an opportunity to pursue the full spectrum of basic, strategic, and applied research to find insights and develop technologies to solve farmers' problems.

Dr Ladha has published widely on issues related to sustainable and conservation agriculture. The impact of Dr. Ladha's work is evident from his exceptionally high h-index for citations (Google Scholar, 69; Web of Science, 51; Scopus, 50). He served on the editorial boards of several international journals including the Regional Editor of Biology and Fertility of Soils. He has been involved with several international advisory/scientific review panels. He supervised 35 masters and doctoral students from a dozen countries.

He is a fellow of the American Association for the Advancement of Science (AAAS), American Society of Agronomy (ASA), the Soil Science Society of America (SSA), the Crop Science Society of America (CSSA), the Indian Academy of Agricultural Sciences (NAAS), and an associate member of the Philippine Council of Agricultural Research (PARC). He is a recipient of several awards and honors notably, the Third World Academy of Sciences Agriculture Prize 2015, the International Crop Science Award 2015, the International Service in Agronomy Award 2011, International Soil Science Award 2010, International Plant Nutrition Institute Science Award 2009. In 2000 and 2004, the CGIAR awarded the Chairman's Excellence Science Award for Outstanding Scientific Partnership and the prestigious King Baudoin Award for Outstanding Research to the Rice-Wheat Consortium in which J. K. Ladha was the key scientist and IRRI's coordinator.

Beata EMOKE MADARI (Brazil)

Beata Madari is an agronomist (1994) with a Ph.D. in Agricultural Sciences, specializing in Soil Science (1999), from the Gödöllö University of Agricultural Sciences in Hungary, complemented by sandwich studies at Purdue University's School of Agronomy in Indiana, USA. She began her career as a research scientist at the National Soil Research Center of Embrapa Soils (2002–2005) and, since 2005, has served as a research scientist at Embrapa Rice and Beans.

From 2012 to 2017, she led Embrapa's national research network on carbon balance and greenhouse gas emissions in crop production systems (Fluxus). She has also played key roles in Embrapa's institutional governance of climate-related research, serving as a member (2012–2016; 2019–2024) and executive secretary (2022–2024) of the institution's Climate Change Research Portfolio. She currently serves on Embrapa's Permanent Committee for the Management of Issues Related to Carbon Dynamics, Greenhouse Gas Emissions, and Adaptation in Agriculture (Plataforma C).

Her scientific expertise spans carbon and nitrogen cycling in terrestrial ecosystems—particularly in tropical acidic soils under annual crops—as well as integrated crop–livestock–forestry systems, soil carbon sequestration, greenhouse gas emissions, and carbon balance. She also has extensive experience in the physical and chemical fractionation of soil organic matter.

Beata was a visiting scientist at the URM Eco&Sols mixed research unit in Montpellier, France (IRD, 2017–2018) and served on FAO's Livestock Environmental Assessment Partnership technical advisory group on soil organic carbon stock change (2017–2018). She is currently the coordinator of the Brazilian Chapter of the International Humic Substances Society (2023–), a member of the Scientific Advisory Panel of the Climate and Clean Air Coalition of the United Nations Environment Programme (2024–), and a member of the FAO–IPCC Scientific Steering Committee for the organization of workshop for alignment across Working Groups for the elaboration of the 7th Assessment Report (AR7) regarding agriculture.

Since 2016, she has been a member of the Scientific and Technical Committee of the "4 per 1000" Initiative.

Beata is the author or co-author of approximately 100 scientific articles (H-index: ISI = 30; Scopus = 34).
ORCID: https://orcid.org/0000-0002-6242-6619
Lattes: http://lattes.cnpq.br/0302689027695014
Web of Science ResearcherID: A-1188-2013

Budiman MINASNY (Indonesia) – Co-Chair

Budiman Minasny is a professor in soil-landscape modelling at the University of Sydney. He is a soil scientist, previously awarded the QEII and the Future Fellowships from the Australian Research Council.

He is recognized as a Highly Cited Researcher in 2019 by the Web of Science. He has an undergraduate degree from Universitas Sumatera Utara in Indonesia and a MAgr and PhD degrees in soil science from the University of Sydney.

He is passionate about the role of soil in managing climate change, food, water, energy security and maintaining biodiversity. His research contribution has been on discovering the causes and controls of soil distribution over space and time. The digital soil mapping research has created a new standard on the cost-effective delivery of accurate and precise information on soil assets from the globe down to the paddock. He believes that soil carbon sequestration as ways of improving the resilience of the soil to future climate change.

Adesola OLALEYE (Eswatini/Canada)

Adesola Olaleye is a Professor/Research Administrator and Research Impact Assessment Specialist. He has a B.Sc. (Hons) background in Agriculture/Agronomy, M.Sc. Soil-Agronomy and Ph.D. Soil Science (Pedology, Soil Classification & Land Evaluation). He has over 18 years of experience in African Agricultural Research and Development, field experimentation, bio-physical data collection/panel data collection, and data analysis (using SAS, STATA, SPSS etc). In addition, he has relevant work experience, including managing research programmes in academia and research with excellent statistical reasoning and analytical skills. He has collaborated with scientists globally on set project, goals and objectives. He has published over 80 peer-reviewed research articles, am a reviewer of some top Soil Science Journals, and am a receiver of around USD 1M in research grant funding. Ola currently serves on multiple editorial boards of distinguished scientific journals. He is also an advisor to numerous scientific and academic advisory boards, government entities, and community organizations.

He has worked within three Consultative Group on International Agricultural Research (CGIAR) centres-International Institute of Tropical Agriculture (IITA), AfricaRice and International Water Management Institute as a research fellow and a Senior Researcher. As a consultant Wetland Soil Scientist, he has also worked within the Food and Agriculture Organisation (FAO) of the United Nations. In addition, he has worked as a Professor of Soil Science/Natural Resources and Environmental Management for over 16 years within the universities. His research and academic work emphasize agricultural development in Africa, focusing on wetlands management, soil organic carbon management in upland soils, soil fertility, fertilizer systems, climate and resilience. He has also consulted for the Forum for Agricultural Research in Africa (FARA-Africa), the International Atomic & Energy Agency (IAEA), The Council for the Development of Social Science Research in Africa (CODESRIA), and African Technology Policy Studies (ATPS), to mention but a few. These consultancies focused on understanding various aspects of climate change adaptation and mitigation. He recently conducted a study on Factors Affecting Fertilizer Supply Chains in East, South and West African countries sponsored by FARA-Africa. As a University Professor of Soil Science with over 15 years of experience, he has a demonstrable ability to understand complex scientific issues and to communicate and apply them at the project and program levels. He has made scientific presentations (oral, written and posters) at the local, regional and international scientific and non-scientific meetings.

Monika SKOWRONSKA (Poland)

Monika Skowrońska is an Associate Professor in the Department of Agricultural and Environmental Chemistry at the University of Life Sciences in Lublin, Poland.

She has a wide range of research interests focusing on soil, water, air, and food quality. One area of particular interest is carbon and nitrogen cycling, taking into account the environmental, economic, sociological, and legal aspects. These include effective strategies for attempting to 'seal' the nutrient cycle on a global, regional, and local scale, whilst also evaluating the influence of management practices on the quality and quantity of soil organic matter, as well as the possibilities of efficient carbon sequestration. She has many years of experience in collaborating with scientists, farmers, and decision-makers in Poland and abroad. She has worked for the World Wildlife Fund, the National Fund for Environmental Protection and Water Management, the Ministry of Agriculture and Rural Development, the Ministry of Science and Higher Education, and the Polish Agency for Enterprise Development.

She is the author and co-author of over 50 scientific publications. She serves as a reviewer and editor-in-chief of journals and books aside from being a member of journal editorial boards. She has participated in international and national projects in various roles, as a manager, a task manager, a contractor, and an expert. Professor Monika Skowrońska has completed several foreign and national fellowships and received numerous university and regional awards in addition to her many accomplishments and substantial contributions in the field of teaching, organization, and popularization of science.

Consuelo VARELA-ORTEGA (Spain)

Consuelo Varela-Ortega, is Professor Emeritus of Agricultural Economics at the Universidad Politécnica de Madrid (UPM), Spain, and senior researcher in the Research Centre for the Management of Agricultural and Environmental Risks (CEIGRAM).

She has been largely involved in research in Spain, the EU and international networks in the fields of agricultural and water economics and policy, food and water security, interactions of environmental and social systems in rural areas, climate change adaptation and vulnerability, scenario development and participatory modeling. Also collaborating with international organizations (FAO, IDB, WB, CIHEAM, EU) she has been directly implicated in the analysis and workshops of irrigation water policies in a number of non-EU countries (Syria, Jamaica, Mexico, Georgia, Lebanon, Bolivia and China), during the last three decades. Actively involved in national and international associations, scientific meetings, scholar programs and congresses in Agricultural Economics and Environmental and Resource Economics she has published extensively in scientific journals and books. She has also been a member of the editorial board of the European Review of Agricultural Economics and of several Spanish journals. She has been the country representative for Spain in the International Association of Agricultural Economist (IAAE) and has taken part in the scientific committee and advisory panels of several international institutions, such as the Global and National Food and Water System for the international CGIAR Challenge Program on Water and Food. She is one of the members in the FAO expert international panel on Water Scarcity and agriculture and was a member of the international panel of reviewers for the national climate change research program of the Netherlands, Knowledge for Climate.

In EU research networks she has been directly involved, since the early 90's, as a scientific coordinator for the Spanish research team in more than 20 national and international projects where she coordinated the participatory modeling initiative in several LA regions. At present she is PI of H2020 PROTEIN2FOOD (Development of high-quality food protein from multi-purpose crops through optimized, sustainable production and processing methods) where she coordinates the socio-economic and policy analysis of the potential of plant protein products. MADFORWATER (DevelopMentAnD application of integrated technological and management solutionsFORwasteWATER treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries) where she coordinates the agricultural and water economics and policy analysis in the MENA region. During the last fifteen years she has been collaborating extensively as panel expert of research projects and programs with the Directorate-General for Research of the EU Commission (e.g., review of the EU Bioeconomy Strategy and its Action Plan for Food2030), a panel member in the joint research initiative EU-China with the Directorate of Social Sciences and Humanities and a FP7 member of the Advisory group for Environment and Climate Change in the Directorate of Environment.

Executive secretariat
secretariat@4p1000.org

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