



## Editorial

# #12

April 2021

Dear Partners and dear Members,

2021, with its series of International UN meetings (UNEP's launch of the Decade of Ecosystem Restoration in June, the Food Systems Conference in September, CoP 15 of the Biodiversity Convention in October and CoP 26 of the Climate Convention in November) promises to be a pivotal year. This is what we need, on a global scale, to start afresh by rethinking our agricultural and food systems, restoring degraded ecosystems, protecting, and giving a chance to marine and terrestrial biodiversity and the largely underestimated biodiversity of our soils. **Our agricultural and food systems will have to find a new resilience based on regenerative approaches and practices**, in order to enable us to meet the multiple challenges linked to climate change, future pandemics and the increase in the world's population, while preserving our environment.

It is a "vast programme" for the implementation of which we need all the active forces, all the goodwill, so urgent is the need to act. More than ever, the importance and relevance of the objectives of the International "4 per 1000" Initiative: Soils for Food Security and Climate" are becoming apparent. It is no coincidence that more than fifty new partners and members have joined us since December 2020, allowing the Initiative to have, now, **614 partners including 278 members**. Together we will be stronger, and thanks to the solidarity and support of all, we will create the synergies necessary for a change of scale of the actions on the ground, which are still insufficient to generate real change, but which carry a wonderful hope.

In 2020, in an article published in "Nature", scientists indicated that the restoration of 15% of the land converted by man in so-called "priority" areas could avoid, in the future, 60% of the predicted extinctions of species, while sequestering nearly 300 Gt of CO<sub>2</sub>, i.e. 30% of the total increase in CO<sub>2</sub> in the atmosphere since the industrial revolution. Thus, by acting on the restoration of ecosystems in target areas, we could have a powerful lever for biodiversity and the fight against climate change. But to make this possible, we must also opt for regenerative agricultural production methods to produce better on less land, to feed a growing world population while combating climate change. This is precisely why the "4 by 1000" Initiative has joined the ranks of partners in the **UNEP Decade on Ecosystem Restoration** to be launched in June (in this regard, I encourage you to fill in the Global Ecosystem Restoration Capacity Assessment questionnaire before 15 April, on page 5)..

It also seemed important and timely, to the Executive Secretariat to participate in the European Union Green Week 2021 entitled "Zero Pollution for a healthier population and planet", by organizing a partner event from 3 May to 13 June 2021, through a "4 for 1000" Virtual Fair entitled: "Reducing Air Pollution and Greenhouse Gases by Improving Soil Health. ". I encourage you to register online on our collaborative platform to host a virtual stand to, for example, showcase your achievements in the context of the Initiative, to present your project, and any other ideas you would like to share.

Regarding the **life of the Initiative**, a few points deserve to be highlighted:

- The electoral process leading to the election of an incoming Vice-President who will succeed in January 2023, the current President Stéphane LE FOLL, who will himself take the place of the outgoing Vice-President, currently occupied by Dr. Ibrahim MAYAKI. As I write these lines, the electronic election is in full swing between the 5 candidates whose candidacies were validated by the Board at its meeting on 22 March. The results will be communicated at the end of the vote.
- The evolution of the Executive Secretariat with the definitive departure of Viridiana ALCANTARA-SHIVAPATHAM at the end of March (we would like to thank her publicly for her important contribution to the work of the Secretariat over the last few months, in particular on the DELPHI study on the Strategic Plan), the arrival of Julia KLEMME in the team based at the BLE in Bonn since 2020, and the support of Joachim GAIGNARD for 6 months during his internship at Sciences Po Grenoble. More details on the Executive Secretariat team are enclosed in this newsletter.
- The preparation of the 5th day of the "4 for 1000" Initiative, most probably on 10 November 2021 in Glasgow during the CoP 21 of the UN Convention on Climate Change, is in progress if a face-to-face meeting is possible. Make a note of this week in November in your diaries.
- For your information, the next meeting of the Initiative's Bureau is scheduled for Monday 19 April.

**We still need your support**, as the Executive Secretariat is constantly looking for human and financial resources to operate and continue its work, especially since the adoption of our strategic plan to 2050. Please do not hesitate to contact Béatrice BRETON-ASKAR ([beatrice.breton-askar@4p1000.org](mailto:beatrice.breton-askar@4p1000.org)) to discuss the practicalities of your support if you can, whatever the form and level, there is no small contribution.

**Remember that this newsletter is yours**, and that your proposals, your information, the "save-the-date" for your events have their full place. Please contact the following address for this purpose: [socialmedia.admin@4p1000.org](mailto:socialmedia.admin@4p1000.org). The same applies to our social networks, which are fully open to you: Facebook, Twitter, LinkedIn, and our YouTube channel.

In the current context of the CoVid-19 pandemic, take care of yourself, your loved ones and always our soils.

**Dr. Paul LUU**, Executive Secretary

## Focus... The Executive Secretariat of the International "4 per 1000" Initiative

### **The Executive Secretariat is the executive body of the international "4 per 1000" Initiative.**

Its mission is to provide support to the three governance bodies (Partners Forum, Consortium of Members as well as the Bureau, and Scientific and Technical Committee) and to coordinate and implement the annual roadmap of the Initiative, particularly through the organization of statutory meetings and the management of common tools (website including the collaborative platform).

Hosted by the Alliance CIAT - Bioversity International, an International Organization with headquarters in Montpellier (France), the Executive Secretariat is made up of a small team managed by Dr. Paul Luu, Executive Secretary of the "4 for 1000" Initiative since September 1, 2016. The human and financial resources allowing the operation of the Initiative, including the Executive Secretariat, are provided on a voluntary basis by some members and partners of the Initiative. In addition to its technical portfolio, each member of the Executive Secretary is the correspondent in charge of the follow up of a region of the world.

The Executive Secretariat is composed of:



**Dr. Paul LUU, Executive Secretary of the "4 per 1000" Initiative**, is in charge of the coordination of the Executive Secretariat team, the mobilization of resources, implementation of the roadmap and organization of the statutory meetings of all bodies of the Initiative.

Dr. Paul LUU is an agronomist specialized in tropical agronomy, graduate from AgroParisTech, the Institute of Tropical Areas and the University of Montpellier (PhD). He began to work in the field (6 years) in agronomic research projects (St. Lucia, Sri Lanka and Tonga) before joining the International Relations Department of the French Ministry of Agriculture where he was in charge (7 years) of the relations with FAO, the World

Bank and the CGIAR, of bilateral relations with Africa and the Mediterranean area, and the management of the French Food Aid. Afterwards, he served 9 years as Technical Advisor "Agriculture, Fisheries and Forestry" the and as Director of ODEADOM (French overseas departments and territories). In 2011, Dr. Paul LUU was appointed Director of Agropolis International (Montpellier) before joining the CGIAR Consortium in September 2013 as Liaison Officer with the French Authorities, then as Protocol Officer. He is Executive Secretary of the "4 per 1000 Initiative since 1st September 2016.

**If you wish to exchange information (project, initiative, scientific publication ...) on Asia, Oceania and North America, please contact Dr Paul LUU ([paul.luu@4p1000.org](mailto:paul.luu@4p1000.org)).**

**Ms. Béatrice BRETON-ASKAR, Resource Mobilization Senior Officer**, is in charge of engagement with funders. Her role within the Executive Secretariat, consists in developing networks, partnerships, and funding for the sake of the "4 per 1000" Initiative. She is based in Montpellier, France.

Ms. Béatrice Breton-Askar has a dual French American education; she studied economy, management and international affairs at ESC Rennes, France and in Clemson University, USA, where she obtained a Master of Business Administration. She has 20 years of combined experience both in the private sector, in major global agri-food and health companies (Yoplait, Bausch&Lomb, etc.) where she occupied International managing positions in strategic marketing; and in International Organizations. She joined CGIAR, early 2016, to become a Funder Engagement Officer, at the CGIAR System Organization; and, then, she joined the "4 per 1000" Initiative, as of 2018, to follow up relationships to existing funders and build fundraising campaigns to attract new funders. Agriculture is deeply rooted in her own experience and she is currently widening her curriculum towards agroecology and agroforestry.

**If you wish to exchange information about funding opportunities, please contact Ms. Béatrice BRETON-ASKAR ([beatrice.breton-askar@4p1000.org](mailto:beatrice.breton-askar@4p1000.org)).**



## Focus... The Executive Secretariat of the International "4 per 1000" Initiative



**Dr. Paloma MELGAREJO-NARDIZ, Sciences Officer in charge of the link with the international research and scientific cooperation program and of the secretariat of the STC.** She is based in Paris (France) at INRAE.

Dr. Paloma MELGAREJO is a Professor of Research from the Spanish Ministry of Agriculture, Fish and Food (MAPA). She studied Agriculture Engineering at the High Technical School of Agriculture Engineering - Polytechnic University of Madrid, and got her PhD in Agricultural Engineering in 1983 by the same university. After researching in Plant Pathology at the Spanish National Institute for Agricultural and Food Research and Technology for 32 years, she took the position of Deputy Director of Foresight and Coordination Programs at INIA from 2008 to 2017. In September 2017 she joined the Executive Secretariat as Sciences Officer. She is author or co-author of more than 150 scientific papers included in the Web of Science, author or co-author of 50 books, monographies and collective books, and has provided more than 300 contributions to congresses and symposia.

She has been Associate Professor at the Polytechnic University of Madrid for 22 years, and has participated in 45 research projects; coordinating 25. She has received several awards such as the Twentieth Anniversary Ozone Protection Award, Montreal Protocol Awards: Implementers Awards - The United Nations (ONU) - September 2007. She is currently a member of the Scientific Advisory Board of the Joint Programming Initiative on Agriculture, Food Security and Climate Change and a member of the Network Management Group of European Phytosanitary Research Coordination (EUPHRESOCO). Dr. MELGAREJO is placed at the disposal of the Initiative by the Spanish Government, through the Ministry of Agriculture, Fisheries and Food.

**If you wish to exchange information (project, initiative, scientific publication ...) on Central and South America, please contact Dr. Paloma MELGAREJO ([paloma.melgarejo@4p1000.org](mailto:paloma.melgarejo@4p1000.org))**

**Marc BERNARD participates in the coordination of the operational part of the international "4 per 1000" Initiative.** He conceptualizes and implements network activities for the development and implementation of the strategy, manages the electronic platform, promotes teamwork and partnerships and provides ideas for overcoming complex challenges, such as the idea of the Twin Regions, creation of Task Forces, the Delphi study and more recently the upcoming virtual "4 per 1000" virtual fair.

Marc BERNARD is an agronomist and soil scientist, graduate of the Technical University of Munich. From 1984 to 1989, he conducted soil erosion research in Nigeria and Cameroon in collaboration with IITA and national research organizations. From 1989 to 2000 he coordinated an interdisciplinary research project "Adapted Agriculture in West Africa" on behalf of the University of Hohenheim. In 2000 he moved to Germany to join the Central Agency for Agricultural Information and Documentation (ZADI) in Germany, which was later integrated into the Federal Office for Agriculture and Food (BLE). He decided to focus on knowledge management for agricultural and rural development, strengthening the agricultural innovation system, and developing alternative business models to increase returns on investments in R&D. Giving voice to marginalized farmers and increasing the impact of research on their livelihoods were the key objectives of his work. Through numerous projects, he has had the privilege of working with a wide range of African, European, regional and international partners to develop solutions and approaches for collaboration and networking in various areas such as rural extension services, research coordination, agricultural market information systems, agricultural statistics, and expert systems for improved decision making and research data management. A particularly highlight is the successful development of an operational framework for innovation and youth employment at scale.

**If you wish to exchange information on any of the above subjects, please contact Marc BERNARD ([marc.bernard@4p1000.org](mailto:marc.bernard@4p1000.org)).**





Focus... The Executive Secretariat of the International "4 per 1000" Initiative



**Julia KLEMME is working at the German Federal Office for Agriculture and Food (BLE), and is based in Bonn (Germany).** She is in charge of the communication in Germany, the organization of events and supporting the moderation of the collaborative platform.

Julia KLEMME studied geography at the university of Bonn. She graduated with a Master of Science degree in 2016. During her studies, she focused on development issues, climate change and risk research. She has always been interested in the intersection of human and physical geography.

**Mrs. Brigitte CABANTOUS is in charge of the logistical organization of the statutory meetings (STC, Consortium and Forum) and contributes to the update of the website.** She is seconded to the Executive Secretariat on a half-time basis by **Cirad**, the French agricultural research and international cooperation organization working for the sustainable development of tropical and Mediterranean regions, and she is based in Cirad Campus in Montpellier (France).





### Survey: "Taking Stock of Global Capacity for Ecosystems Restoration"

The [UN Decade on Ecosystem Restoration](#) is launching a global online survey "Taking Stock of Global Capacity for Ecosystems Restoration" to identify what and whose capacities need to be enhanced to achieve the goals of the Decade. This survey was jointly developed by a coalition of 38 organizations, under FAO's leadership. All stakeholders involved in restoration are welcome to participate to this assessment. The survey is available in English, French, Spanish, Portuguese, Chinese, Arabic and Russian. It will take you about 15 minutes to fill. The survey will remain open **till 15 April 2021**. We kindly invite you to follow [this link](#) to complete the survey. Please encourage others across your networks to fill it out!



### "4 per 1000" Virtual Fair - EU Green Week

The [EU Green Week](#) will take place from 3 May to 13 June 2021 dedicated to the theme ZERO POLLUTION for healthier people and planet. In this framework, **the international "4 per 1000" Initiative holds a virtual fair.**

**The topic of the fair is: Reducing air pollution and greenhouse gases by improving soil health!**

Profiting from the EU Green Week, we want to raise the voices of our "4 per 1000" Partners, Members and friends. We would like to invite you to organize an own virtual event at the "4 per 1000" fair and create a web page on the electronic platform. You can use the event and the page to present yourself and your work, to show what you are doing.

Please have a look on this webpage to find out more about the fair: [EU Green Week 2021 - "4 per 1000" fair](#).

To view the virtual event map, click [here](#).



"**The 4P1000 initiative: global challenges and opportunities for the soil**" edited by Ingrid Kögel-Knabner, Cornelia Rumpel, Abad Chabbi. [This Geoderma special issue](#) follow the Conference organized in Poitiers in June 2018 by Abad CHABBI and Cornelia RUMPEL on the "4 per 1000" Initiative and the link with Sciences.

### Launch of the Alliance Française pour la Neutralité Carbone - March 16, 2021

On March 16, on the occasion of the launch of the Alliance Française pour la Neutralité Carbone, public and private actors engaged in the "zero net emissions" objective by 2050 were brought together for a live performance.

Speakers such as Paul Luu, Executive Secretary of the [International "4 per 1000" Initiative](#), Claire Chenu from [INRAE](#) and member of the Scientific and Technical Committee of "4 per 1000", Thierry Caquet from INRAE, Pierre-Alexandre Teulié and Christophe Klotz from [Nestlé France SAS](#), discussed the issues of the National Low Carbon Strategy and the development of natural carbon sinks (agricultural soils and forests).

This initiative is supported in particular by Nestlé France S.A.S., a founding member and partner of the international "4 per 1000" Initiative. To see the replay, click [here](#) (in French).



### Healthy soils to combat climate change and end hunger

On January 21, 2021, the expert panel "Healthy Soils to Combat Climate Change and End Hunger" of the international "4 per 1000" Initiative was held as part of [Global Forum for Food and Agriculture 2021 \(GFFA\)](#). It was moderated by Dr. Paul Luu, Executive Secretary of the international "4 per 1000" Initiative.

**The Federal Minister of Food and Agriculture, Julia Klöckner, highlighted the importance of healthy soils and emphasized the importance of the international "4 per 1000" Initiative in an opening video. Wolfgang Zornbach, Head of Unit for Sustainability, Climate Protection and Climate Impacts at the German Federal Ministry of Food and Agriculture, emphasized the importance of carbon in soil in his speech, comparing it to a diamond.**

The panel was composed of representatives from four different stakeholder groups. Keynote speeches by the panelists were followed by a lively discussion. To learn more, please click [here](#).

**On January 22, at the end of the Global Forum for Food and Agriculture 2021 (GFFA), the 13th Conference of Ministers of Agriculture was held.** To read the final communiqué "How to feed the world in times of pandemic and climate change?" click [here](#).

The [Living Soils Symposium 2021](#) was held online from February 22 to 26, 2021.

Missed a session? The recordings of the session are available [here](#).

**"The First International Symposium on Cool Earth via Microbes in Agriculture" was held online on 1st March 2021.**

With more than 700 registrations and 542 attendees from 27 countries, top international researchers discussed how to prevent global warming by optimizing carbon and nitrogen cycling and shared the trends in research on the mitigation of greenhouse gas emissions from agricultural lands by leading international research institutes. [Official website was created, and you can find the presentation slides of all presenters including Q&A.](#)

\* Note that presenters may slightly edit the slides according to the type of data they want to be shared.



## We are all concerned!

Every single one of us can take action to get things moving forward. Together we can make a difference. Our actions, individual or collective, can make things happen.

[Join the Initiative!](#)

The Executive Secretariat needs stronger means to implement its annual roadmap and organize statutory meetings in particular of the STC or regional meetings. If you wish to contribute to our common effort, please contact the Executive Secretariat: [secretariat@4p1000.org](mailto:secretariat@4p1000.org)





Cornelia Rumpel

## "4 questions to ..."

**Cornelia Rumpel**  
President of the Scientific and  
Technical Committee of  
the International "4 per 1000"  
Initiative

*"This initiative is extremely important to promote the importance of soil and sustainable soil management as a solution for multiple sustainable development goals."*

### 1/ Cornelia Rumpel, could you introduce yourself in a few words?

*I am a research director working for the French National Research Center (CNRS) at the Institute of Ecology and Environmental Sciences in Paris. I have been working as a biogeochemist for 25 years to understand the mechanisms leading to organic carbon sequestration in soils. My work concerned tropical as well as temperate environments. In recent years, I focused on applying my finding to develop sustainable agricultural practices.*

### 2/ As President of the Scientific and Technical Committee (STC) of the "4 per 1000" Initiative, what are the main actions you take?

*As President of the STC of the "4 per 1000" Initiative, I am concerned with the organization of the work of the STC. We work on the elaboration of the scientific basis of soil carbon sequestration and the link between soil carbon sequestration, biodiversity and climate change. As president of the STC I am heavily involved in project evaluation, information gathering concerning region-specific sustainable practices and dissemination of the results of our work among scientists and other stakeholders.*

### 3/ What does the "4 per 1000" Initiative represent for you?

*The "4 per 1000" Initiative represents for me an excellent opportunity to exchange among multiple stakeholders, to generate new ideas and to implement sustainable practices. Moreover, this initiative is extremely important to promote the importance of soil and sustainable soil management as a solution for multiple sustainable development goals.*

### 4/ What message do you want to convey to the "4 per 1000" Members and Partners?

*Let's work together to find rapidly adequate strategies to store carbon and to improve global soils, the basis of our lives because we have no time and only one planet.*

## Save the date!

### EIP-AGRI Seminar "Healthy soils for Europe: sustainable management through knowledge and practice" - April, 13-14 2021 - online

The European Commission - Directorate-General for Agriculture and Rural Development and the EIP-AGRI Service Point are organising this seminar in cooperation with the Portuguese General Directorate of Agriculture and Rural Development (DGADR). Anyone involved in keeping Europe's soils healthy is invited to apply: farmers, foresters, researchers and others involved in Operational Group projects, Horizon 2020 research projects or other innovative projects, innovation support services, advisers working on solutions for enhancing soil health, EU regions and Member States.

To learn more, please click [here](#).

### Global Symposium on Soil Biodiversity - 19 to 22 April 2021 - online

As a precautionary health measure, the Symposium forecasted in June 2020 has been postponed to April 2021. It will be a science-policy meeting, held over three days, at the UN Food and Agriculture Organization (FAO) headquarters in Rome, Italy. It is jointly organized by the UN FAO and its Global Soil Partnership (GSP), the Intergovernmental Technical Panel on Soils (ITPS), together with the UN Convention on Biological Diversity (UNCBD) and the Global Soil Biodiversity Initiative (GSBI).

The main objective is to fill some critical knowledge gaps and promote discussion among policy makers, food producers, scientists, practitioners and other stakeholders on solutions to live in harmony with nature, and ultimately, achieve the SDGs through the conservation and sustainable use of soil biodiversity.

To learn more, please click [here](#).



## International organisations They act!

### Greenhouse gas assessment and mitigation in agriculture: concepts, methods and simulation tools - 28 September - 2 October - 5-8 October 2020

This online advanced course was jointly organized by the International Centre for Advanced Mediterranean Agronomic Studies ([CIHEAM](#)), through the Mediterranean Agronomic Institute of Zaragoza (CIHEAM Zaragoza), the Global Research Alliance on Agricultural Greenhouse Gases (GRA), the Food and Agriculture Organization of the United Nations ([FAO](#)), the [Red REMEDIA](#) (Scientific network for greenhouse gas mitigation in the agroforestry sector) and [the international "4 per 1000" Initiative](#).

For more information, please contact Maite Aguinaco at CIHEAM Zaragoza.

### Compendium of Practices in Climate-Smart Agriculture and Solar Irrigation

In this compendium, [Global Green Growth Institute](#) (GGGI) provides the latest knowledge and capacity building materials on these topics and offers information on the most relevant topics on technologies related to climate-smart agriculture and solar irrigation – both of which can be used as training materials. The presented information in this compendium is based on the training materials used for capacity building purposes of ICRAF-CGIAR partners between 2014 and 2020. Overall, the technologies discussed in this compendium explain the general practices and are supported by case studies. Because each context is specific, these technologies need to be adopted within a context, considering its institutional, economic, social and environmental aspects. [This publication](#) serves as a practical guide and useful resource for practitioners, farmers, scientists, and technicians to better understand the initiative undertaken by GGGI.

### Nature-based Solutions in Agriculture

In February, [FAO](#) and [The Nature Conservancy](#) co-hosted a publication launch and webinar to explore the potential of Nature-based Solutions to promote food security while restoring natural resources. To learn more, please click [here](#).

### How can local & global agricultural markets contribute to growth & sustainable development while leaving no one behind?

Check out the State of Agricultural Commodity Markets 2020, published by FAO, by clicking [here](#).

### ***"You don't need to be a biologist to save the planet! Environmental protection and restoration is not just a matter of natural sciences."***

Carlos Manuel Rodriguez became the [Global Environment Facility's](#) fifth CEO and Chairperson in September 2020, in the middle of a global pandemic. In an interview, Carlos Manuel Rodriguez shared what he's most looking forward to in the coming year. To read [here](#).



## Save the date!

### 4 per 1000 fair at EU Green Week - 3

**May to 13 June 2021 - online**

The [EU Green Week](#) will take place from 3 May to 13 June 2021 dedicated to the theme ZERO POLLUTION for healthier people and planet. In this framework, the Initiative 4 per 1000 will hold a virtual fair on the theme "**Reducing air pollution and greenhouse gases by improving soil health**". We would like to invite you of the "4 per 1000" Initiative to organize an own virtual event at the "4 per 1000" fair and create a web page on the electronic platform. You can use the event and the page to present yourself and your work, to show what you are doing.

To learn more about how to participate: [EU Green Week 2021 - "4 per 1000" fair](#).

Kindly note that you will need to register your event at the 4p1000 electronic platform and the EU Green Week portal **before April 15, 2021**.

**The 5th European Agroforestry Conference will be held online from 17th to 19th May 2021.** For more information, please click [here](#).

### 8th World Congress on Conservation Agriculture (8WCCA) - Online - June 21 - 24 2021, Bern (Switzerland)

The theme of the Congress is: "**Profitable and Sustainable Farming with Conservation Agriculture**".

Conservation Agriculture (CA) is acknowledged to be a sustainable system of agricultural intensification which improves soil health and thus, will be a key element to ensure the production of food and other agricultural products, while providing additional ecosystem services, even under the threatening scenarios involving the consequences of climate change and larger world population. During the three days of the Congress, manifold topics will be discussed in depth in plenary sessions, panel discussions, parallel sessions and poster sessions, with the objective to promote a wider adoption of CA worldwide.

For more information, click [here](#).



## Farmers and foresters organisations They act!

In February, 'Tomorrow the Earth' La Terre' interviewed Paul Luu, Executive Secretary of the International "4 per 1000" Initiative. To watch the video "3 questions to... Paul Luu", click [here](#) (in French).

More and more farmers, technicians and agronomists are committing to the path of agroecology.

To see how Raphaël Martinez, director of the [Federation of Fruits and Vegetables of Occitania](#) conceives the transition, click [here](#).

This portrait was realized by '[Pour une Agriculture du Vivant](#)'.

[APAD](#) (Association For Sustainable Agriculture) regularly offers a section called "L'instant technique". To see "Successful seeding of protein crops in Conservation Agriculture, main keys to success", click [here](#) (in French).



## Research and training bodies They act!

### New maps of global forest carbon flux.

A team of CIFOR scientists collaborated with NASA Goddard, NASA Jet Propulsion Lab, The Sustainability Consortium, University of Maryland, Wageningen University & Research (WUR), Woodwell Climate Research Center et World Resources Institute (WRI), to develop new maps of global forest carbon flux. To learn more, click [here](#).

CIFOR is a research center of [CGIAR](#), Member of the International "4 per 1000" Initiative, and leads the CGIAR Research Program on Forests, Trees and Agroforestry (FTA).

### What are the practices to be encouraged for a sustainable agriculture? How can mineralization be limited?

[Interview with Olivier Husson](#), an agricultural engineer and [Cirad](#) researcher. This portrait was produced by '[Pour une Agriculture du Vivant](#)'.

**Coordinated by [Cirad](#), the FAIR project is banking on agroecology to boost the resilience of producers in the Sahel.** This project is financed by the European Commission - Development & Cooperation - EuropeAid and [AFD](#) - Agence Française de Développement, member of the international "4 per 1000" Initiative. For more information, click [here](#).

### Cocoa4Future project: putting people and the environment back at the heart of tomorrow's cocoa farming

The aim of this project, coordinated by CIRAD in Côte d'Ivoire and Ghana, is to improve the sustainability of farms while preserving the environment.

This program is funded by the European Union and by [AFD](#) - Agence Française de Développement. To learn more, click [here](#).

## Save the date!

### The Soil at Risk symposium - June, 30, 2021 - Online event.

The symposium invites researchers, farmers, businesses and decision-makers to answer vital questions together: How do we safeguard the soil for future generations? What kind of cultivation practices for soil regeneration are needed? To learn more and to register, please click [here](#).

### Eurosoil 2020: Connecting people and soil - From 23 to 27 august 2021 - Online event.

Eurosoil 2020 objective is to bring together leading research scientists working on soil related topics and stakeholders dealing with issues of public concern such as soil degradation and consequences of climatic changes. The important bridging role of soil practitioners to translate scientific knowledge into practice will be emphasized.

**The "4 per 1000" Initiative will co-organize with Desertnet International a session titled "The "Agricultural fields - Opportunities and limits of carbon and water storage" featuring oral and poster presentations. For more information, please click [here](#).**

**The International Union for Conservation of Nature (IUCN) and the French government have agreed to hold the IUCN World Conservation Congress 2020 from 3 to 11 September 2021 in Marseille (France). For more information, please click [here](#).**

### Global Symposium on Salt-Affected Soils - October 27 to 29, 2021 Tashkent (Uzbekistan).

FAO, the Global Soil Partnership and its Intergovernmental Technical Panel on Soils (ITPS) together with the Republic of Uzbekistan, will be organizing the Global Symposium on Salt-Affected Soils. More information [here](#).



## Research and training bodies They act!

### Storing 4 per 1000 carbon in soils: the potential in France

On June 2019, [INRAE](#) delivered a study commissioned by the French Environment and Energy Management Agency (ADEME) and the [French Ministry of Agriculture and Food](#) concerning the carbon storage potential of soils in France. Using a novel methodology, the study was able to evaluate this potential by estimating the implementation cost, region by region, in terms of a 4 ‰ goal. The final report of the study has just been published. To download it, click [here](#).

A complementary study is also available online "Effect of climate change on carbon storage in field crop soils".

### The Enchytreides, soil organisms that need to be better known

Do you know the Enchytreides, small white worms, close cousins of earthworms? They live in our soils, contribute to their fertility and are the subject of numerous [INRAE](#) studies. To learn more, click [here](#) (in French).

### Forest and wood sector and climate change mitigation

INRAE and IGN publish a synthesis book to enlighten the debate. To learn more, click [here](#) (in French).

### One Planet Summit: launch of PREZODE, a first-ever international initiative to prevent future pandemics

Under the aegis of France, and notably the Ministry of Higher Education, Research and Innovation and the Ministry of Europe and Foreign Affairs, [PREZODE, an initiative to prevent emerging zoonotic risks and pandemics](#), was launched on the occasion of the One Planet Summit for biodiversity on 11 January. Three French research institutes - [INRAE](#), [Cirad](#) and [IRD](#) - have teamed up with around ten other research bodies in France, Germany and the Netherlands to launch PREZODE, which has already mobilized more than 1000 researchers.

Climate-smart practices, Climate-Smart Villages, and Local Technical Agroclimatic Committees are some of the approaches that [CCAFS](#) - CGIAR Research Program on Climate Change, Agriculture and Food Security - has implemented in Latin America to increase the adaptive capacity and food security of rural communities.

Deissy Martínez Barón, Regional Leader of CCAFS Latin America, explains in an article for World Farmers' Organisation how to increase climate resilience in different countries of Latin America through science and innovation. To read the article, please click [here](#).

### Climate resilient food systems for Africa: from evidence to action.

CCAFS together with Wageningen University & Research and the Dutch ministries of Foreign Affairs and Agriculture, Nature and Food Quality, held a series of virtual dialogues through January 2021 to learn on how we can make African food systems more resilient to climate change. To learn more, please click [here](#).

## Save the date!

**The UN Biodiversity Conference (COP 15) has been rescheduled for October 11 to 24, 2021**, in China. For more information, click [here](#).

The UK will host the 26th UN Climate Change Conference of the Parties (COP26) at the Scottish Event Campus (SEC) in Glasgow on 1 - 12 November 2021. More information [here](#).

**The regional meeting in Asia in New Delhi (India) organized by the "4 per 1000" Initiative in collaboration with CIMMYT (International Maize and Wheat Improvement Center), ICAR (Indian Council of Agricultural Research) and TAAS (Trust for Advancement of Agricultural Sciences), initially scheduled for October 2020 is delayed for now (details to come).**

**1st Latin America and Caribbean Regional Symposium (LAC) initially scheduled from May 12 to 14, 2021 is postponed to May or June 2022 in Goiânia (Brazil) (details to come). The "4 per 1000 Initiative : Soils for Food Security and Climate", the Brazilian Agricultural Research Corporation (Embrapa), together with other local partners, will organize the 1st Latin America and Caribbean Regional Symposium (LAC).** This two-days conference is hosted by the Federação de Agricultura e Pecuária do Estado de Goiás. Stakeholders representing the diversity of agricultural production systems and concepts in LAC region - small to large industrial scale production farms, farmers and farmers' organizations, policy makers, researchers, related industries, multi and bilateral funders... are welcome. More information [here](#).

More events [here](#)



## Research and training bodies They act!

On the occasion of World Soil Day last December, [IRD](#) published an **article on its actions in carbon sequestration in Southern Africa, East Africa and the Indian Ocean**. To learn more, click [here](#).

**The Department of Biotechnology at the University of Verona in Italy studies the challenges of biological sciences and the advancement of methods related to biotechnological applications for the agri-food industry, the environment and health.** For more information, click [here](#).







## Civil Society, associations, NGO They act!

### **Territorial Approaches for Sustainable Development**

[EcoAgriculture Partners](#) has published in January of a [new report on Territorial Approaches for Sustainable Development](#), which takes stock of experience around the world with territorial approaches. The report was commissioned by TP4D partners - AFD, BMZ/GIZ, Cirad, EU, FAO, NEPAD, OECD, UNCDF, working with ICLEI, UN Habitat, Rimisp and EcoAgriculture Partners--and produced with support provided by the German Federal Ministry for Economic Cooperation and Development (BMZ). The study aims to inform policymakers, program managers, and practitioners of **lessons learned** about the successful implementation of territorial approaches in 14 case studies.

### **Ten years of giving native species trees!**

[iGiveTrees](#) celebrates ten years of giving native species trees to smallholders in Brazil, Guatemala and Mexico to restore their forests. To see the video, click [here](#).

### **A Map of Regenerative Farms in Canada**

[Regeneration Canada](#) has launched a Map of Regenerative Farms in Canada. This first-of-its-kind interactive map helps people locate and connect with regenerative farms in a given area, learn more about their farming methods and find out how to purchase their products. To view the map, click [here](#).

### **Second "Mini-Barefoot Guide: Whole Landscapes, Whole Communities"**

Co-written by [Regeneration International](#) team-member Precious Phiri, this guide is an introduction to the work path of the Seed Knowledge Initiative (SKI), a partner of Regeneration International, at the landscape level with the communities of the region of the Southern Africa.

It is written to share essential information on landscape regeneration through living stories of local wisdom, exploration of practices, and a mini-guide on how to engage local communities to take action in regeneration.

To download the guide, click [here](#).

### **Agroecology for peace in Colombia**

In Colombia, [AVSF](#) (Agronomists and Veterinarians Without Borders) has been working with rural communities since 2018 to contribute to peace building and equitable governance of their territories through agroecology. To learn more, click [here](#) (in French).

### **Finland: a free e-college for regenerative agriculture**

The e-college for regenerative farming is a new free online course, which combines improving the productivity of farming with hands-on environmental work. The online training project is a joint effort of [Baltic Sea Action Group](#) and Reaktor, supported by many partners. The e-college provides a comprehensive overview of regenerative farming and its main methods, whilst bearing in mind the unique features and circumstances of the participants' farms.

For more information, click [here](#) (in Finnish).

**German Terra Preta Organization - [Terra Preta Weserbergland GbR](#)** is developing activities in Germany (Lower Saxony). Its objective is to form humus in terms of several thousand tonnes per year and to use it in agriculture to reduce greenhouse gases and promote biodiversity. To learn more, click [here](#).

[Farmers Pride International](#) has published [its 2020-2026 strategic plan](#) with the actions carried out in the different countries where they are currently present.



## Civil Society, associations, NGO They act!

### **The Avaclim project aims to create the necessary conditions for the deployment of agroecology in arid areas.**

To achieve this, **CARI**, the NGO that is carrying out the project, and its partners are giving themselves three years, from 2020 to 2022. Practitioners, farmers and scientists are studying agroecological initiatives in seven countries: Burkina Faso, Senegal, Morocco, Ethiopia, South Africa, Brazil and India to promote agro-ecology to the political authorities of these countries and to intergovernmental bodies.

Some initiatives identified by the Avaclim project:

- In India, [Andhra Pradesh Community Managed Natural Farming](#) offers an agroecological alternative to reduce the cost of inputs and create sustainable agricultural livelihoods using methods rooted in both science and Indian tradition.
- The [Bioprotect initiative wants to contribute to the development of organic agriculture in Burkina Faso](#) through the production and dissemination of biopesticide production methods for the ecological control of crop diseases and pests.
- [5 pilot farms put into practice the Sahelian bocage](#) in various provinces of the country, to mitigate environmental degradation and promote local agriculture.
- [Inter-village communities are committed to the sustainable management of forest resources in the northern region of Burkina Faso.](#)
- In Burkina Faso, in the province of Zondoma, a [project supports agroecological off-season market gardening.](#)
- In Morocco, the [commune of Ghassate in the province of Ouarzazate is involved in the agricultural transition of many farming families.](#)
- The [Tifawine cooperative seeks to promote sustainable agricultural development](#) through the professionalization of small family fruit production enterprises grouped by the cooperative.
- The Association '[France Et Maroc au Cœur](#)' has developed [family gardens](#) in the arid provinces of Chichaoua and Taroudant.

### **Pasture Cropping - The Innovative No-kill, No-till System Developed by Australian Farmers**

Regenerative agricultural systems such as cover cropping and pasture cropping are radically changing the conventional approach to weed management. They have shown that the belief that any plant that is not our cash crop is a weed and needs to be destroyed is no longer correct. The fact is that plant diversity builds resilience and increases yields, not the other way around.

**To read the article by André Leu, International Director of Regeneration International, please click [here](#).**

**The NGO ADD- KIDAL MALI (Sustainable Development Assistance)** works in the areas of peace and the establishment of income-generating activities for vulnerable women in the areas of agriculture, livestock and handicrafts. For more information, click [here](#).

**One Planet Business for Biodiversity (OP2B)** is a unique international cross-sectorial, action-oriented business coalition on biodiversity with a specific focus on agriculture. Actions are focused around three pillars: scaling up regenerative agricultural practices; boosting cultivated biodiversity and diets through product portfolios; and eliminating deforestation / enhancing the management, restoration and protection high-value natural ecosystems.

Hosted by the World Business Council for Sustainable Development ([WBCSD](#)), the coalition currently consists of twenty one companies. To learn more, please click [here](#).



## Civil Society, associations, NGO They act!

With many agricultural soils losing 40-60% of their organic matter, it's more important than ever to have a comprehensive strategy for advancing soil health. [Soil Health Institute's President and CEO Dr. Wayne Honeycutt discusses this strategy and the many benefits adoption of soil health systems can bring](#), including increased carbon sequestration, enhanced yield stability, increased biodiversity, and more.

Listen to the second episode of the ReJenerate podcast - "Creating Healthy Ecosystems, Food Systems and Community Through Living Soils" about living soils and regenerative agriculture with [Regeneration Canada's Deputy Director, Sarah Barsalou](#), who talks about living soil, what we should know about it, understanding soil as a solution to climate change, how it can improve our food systems, and the regenerative agriculture movement in Canada. To listen to the podcast, click [here](#).



The Executive Secretariat is still looking for a secondment related to a Communication officer and webmaster.

If your institution or organization wishes to provide such a secondment, please contact Dr. Paul LUU: [paul.luu@4p1000.org](mailto:paul.luu@4p1000.org)





## Private companies They act!

[Danone](#) has been committed for several years to accelerating the transition of French agriculture towards more sustainable practices that are more respectful of the planet, people and animals.

In France, [Danone has made commitments in favor of regenerative agriculture](#), and has launched the "2 Feet on Earth" program with several partners.

The objective: to support partner producers in reducing the carbon footprint of their livestock by 15% and developing regenerative farming practices by 2025.

To learn more, click [here](#).

### Regenerating the shea butter tree

**Livelihoods** is launching a sustainable shea sourcing project in Ghana to improve the livelihoods of 13,000 women farmers. For more information, please click [here](#).

**Ecosia GmbH, the search engine that plants trees**, has begun to incorporate more and more agroforestry projects into its tree-planting efforts. **Ecosia also offers financial partnerships to European farmers who wish to implement agroforestry systems**. For more information, click [here](#).

[Plant Health Cure](#) is a specialist and frontrunner in the field of mycorrhiza technology and soil biology. Plant Health Cure supplies useful soil fungi and soil bacteria and other agents that make plants resilient and function better. Plant Health Cure has made a short film "Soil is a living organism", to see the film click [here](#).

**MyEasyFarm** launches the [first application compatible with the future Label Bas Carbone method for field crops](#).

To support and donate to the "4 per 1000" Initiative, please contact Ms. Béatrice Breton-Askar, our Resource Mobilization Senior Officer: [beatrice.breton-askar@4p1000.org](mailto:beatrice.breton-askar@4p1000.org)

To view the presentation file, click [here](#). We thank you in advance for your support.



## They joined us!

### International & Regional organisations

[European Compost Organisation e.V. ECN](#) - Germany

### Farmers & Foresters organisations

[Association pour le Développement de Niafobougou](#) - Mali

[Château La Roque Forcade](#) - France

[Vignobles de Larose SA](#) - France

### Research & Educational bodies

[Beni-Suef University](#) - Egypt

[International Institute for Sustainability \(IIS\)](#) - Brazil

[University of Verona](#) - Italy

### Civil society & non-profit organisations

[ADIL MALI](#) - Mali

[Aid and Impact on Life Initiative](#) - Mali

[Aide au Développement Durable \(ADD\)](#) - Mali

[AJAAH](#) - Mali

[AJVAT](#) - Mali

[ASED \(Association-Santé-Education-Démocratie\)](#) - Niger

[ASSADDEC](#) - Mali

[Association pour la Promotion et le Développement](#)

[Artisanal et Culturel \(PRODAC\)](#) - Niger

[Association Solidarité pour le Développement Plus](#)

[\(ASSO+\)](#) - Mali

[CEDIFA](#) - Mali

[European Circular Bioeconomy Policy Initiative](#) - Belgium

[GACIDD Groupe d'Appui des Cadres Innovateurs pour le](#)

[Développement Durable d'Haïti](#) - Haïti

[Global Wellbeing Institute](#) - United States of America

[Green Lifestyles Network](#) - United States of America

[Green Shoots Foundation](#) - United Kingdom

### Civil society & non-profit organisations

[Groupe Gourma](#) - Mali

[Groupe Social des Femmes Lahidou](#) - Mali

[Humanitarian Donations to the Needy](#) - Cameroon

[Instituto Brasileiro de Agroecologia \(IBA\)](#) - Brazil

[Kitchen gardening: Lessons And Seeds](#) - Pakistan

[Lipok Social Foundation](#) - India

[LocalScale](#) - United States of America

[Simpson Foundation](#) - Malawi

[Terra Preta Weserbergland GbR](#) - Germany

[Tse-Xin Organic Agriculture Foundation \(TOAF\)](#)-  
Taiwan

[Vie Bonne "Alimentation pour tous"](#) - Mali

[Wanakaset Pyrénées Orientales](#) - France

[Youth Agro-Marine Development Association](#)

[\(YAMDA\)](#) - Somalia

### Private companies

[Amarengo Group](#) - Ireland

[Carnes Manada](#) - Chile

[Cler Verts](#) - France

[Cquest](#) - Germany

[Crooked Farmz](#) - Canada

[Ecosia GmbH](#) - Germany

[EDAFOTEC](#) - Spain

[Heart and soil magazine](#) - Canada

[Insolitam Crescite Partnership LTD](#) - United Kingdom

[Logiseed SRL](#) - Argentina

[March5](#) - France

[Recovered Carbon](#) - Estonia

[Soil Heroes Operations B.V](#) - Netherlands

[Sylva Fertilis France](#) - France

[Vinci Technologies](#) - France

## The "4 per 1000" Initiative in a figure...

### 614 Partners and Members! (March 2021)

All countries or organizations that wish join the Initiative (see [here](#) how to join) send their application to the Executive Secretary who controls the completeness.

If the application is complete, the Executive Secretary submits the list of new partners and members to be approved to the Consortium of Members or to the Bureau (depending on the time of year), at the beginning of each meeting.

After this formal approval, the new partners and members are included in the official list.

[Listing of the Consortium of Members and Forum of Partners of the Initiative](#)



Follow the "4 per 1000" Initiative on social networks!

Please Suscribe / like / share



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Facebook Group: [All 4p1000](#)

[www.facebook.com/groups/all4p1000](http://www.facebook.com/groups/all4p1000)



Linkedin: [4p1000 Initiative](#)

<https://www.linkedin.com/company/4p1000initiative/>



Twitter: [@4per1000 #4p1000](#)

[www.twitter.com/4per1000](http://www.twitter.com/4per1000)



YouTube: [4p1000 Initiative](#)

[www.youtube.com/channel/UCvBmNtaHxi3PcvbUkkL\\_UQg](http://www.youtube.com/channel/UCvBmNtaHxi3PcvbUkkL_UQg)

If you would like the "4 per 1000" Initiative to relay your publications on its own social networks, please add the following mention at the bottom of the information you publish:

[@4p1000 Initiative](#)

To see...

#### Food, Earth, Happiness [Official - Short Film on Natural Farming]

A majestic journey through Japan, Korea, and the United States that turns our perceptions of food (and life) upside down in a simple and poetic way. [This exciting short film shows us that regenerative practices are universal and intuitive to many cultures around the world.](#) Solutions for our most pressing social and ecological issues come from unexpected places in a bite-sized film that New York Times bestselling author Alicia Bay Laurel calls "beautiful ... both art and documentary."

#### [Biological evolution: the break that never comes... \(in French\) | Marc-André Selosse](#)

TEDxAgroParisTech - 6 February 2021

#### [Reconciling intensive agriculture and ecology \(in French\) | Francis Bucaille](#) - TEDxAgroParisTech, February 2021

Francis Bucaille is a farmer, agronomist, author and co-founder of Gaïago, a company specialized in soil revitalization. His farming practice, enriched by diagnoses carried out in all climates, allows him to take a fresh look at the agriculture of the future.

#### ["Soil health diagnosed as you've never heard before" / Shannon Cappellazzi from the Soil Health Institute](#) - PED

Talks - october 2019

#### [Why soil is one of the most amazing things on Earth](#) | BBC Ideas - December 17, 2020



## The international "4 per 1000" Initiative: Soils for Food Security and Climate



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