



"4 per 1000" Initiative, Soils for Food Security and Climate

Editorial by Paul Luu

Dear members, dear partners,

Allow me, at the beginning of the year 2019, to send to you from the entire team of the Executive Secretariat (Paloma, Viridiana, Gianna, Brigitte and me), our best wishes for your family and you, but also for our soil and their health!



Just a month ago, last December 13, we held our 2nd day of the "4 for 1000" initiative on the sidelines of COP 24 in Katowice (Poland). It was a beautiful day, rich in exchanges, debates and all kinds of discussions. Thanks to the warm welcome and the perfect logistical organization of the University of Silesia, the participants were able to attend:

- a high-level segment launched by an inspiring presentation by Dr. Deborah BOSSIO and continued with the speech of 17 VIPs;
- a Forum of active Partners with 4 thematic workshops;
- a Consortium of Members that made important decisions for the life of the Initiative, including the establishment of a Bureau, and validating an ambitious 2019 Roadmap supported by an appropriate budget.

We will have the opportunity in this newsletter to come back in more detail about the day's progress and the results of discussions and debates. May all those who contributed to the success of this day, including the many participants, be thanked here.

At the time of writing, we know that COP 25 will take place in Chile, without exact confirmation of the location, but especially with no certainty as to the dates (November, 11-22th, initially) that could shift in mid-January 2020 (possibly from 6 to 17). So we will meet in Chile at the end of this year or the beginning of the next.

Among the results of the Consortium's work, a roadmap for 2019 has been adopted. It takes up the tasks and achievements started in 2018, and asks the Executive Secretariat to deepen certain aspects, particularly those relating to the mobilization of resources for projects "4 per 1000", the continuation of the organization of regional meetings, and the animation of the Partners' Forum via the collaborative platform. A call for projects to be evaluated by the Scientific and Technical Committee will also be launched this year.

This roadmap can only be fully implemented if the necessary means are made available to the 4 per 1000 initiative, in particular for specific activities, such as communication tasks. To date, out of the € 805,000 of the adopted budget (not counting the € 240,000 that would make it possible to organize two regional meetings during the year), only € 371,000 are available, thanks to the 2018 balances and the € 221,000 contribution provided by the French Ministry of Agriculture and Food.

All members and partners of the Initiative are encouraged to contribute, even modestly, to the Initiative's budget so that we can put all the chances on our side to implement the roadmap for 2019. The "4 per 1000" Initiative is your initiative, it lives and succeeds only through you and with your help.

It will grow and grow thanks to you, your commitments, your research, your projects, and your support in financial or human resources. Do not hesitate to contact the Executive Secretariat to find the right way to support and publicize the Initiative. This newsletter is also yours, so send us information about your projects, your achievements, your meetings, in order to share them with the entire strong community of the today "4 for 1000" 359 partners!

Once again, Happy New Year 2019 to all!

Dr. Paul Luu, Executive Secretary

FINANCING the "4 per 1000" Initiative: How Resource Mobilization is key.

An exhaustive inventory of public and private funders for the "4 per 1000" Initiative has been conducted in 2018.

The following categories of funders were defined:

- Government Institutions / Agencies
- Private Foundations
- Funder networks
- Development Banks
- Commercial Banks & Ventures
- IO International Organizations
- NGOs Non-Governmental Organizations
- International Funds.

The description of the donors in terms of funds/initiatives, project types, period of time, fund total amount, geographic focus, finance type (grant, ...), typical finance size, application criterion, evaluation criterion and a full contact form of the funder has been developed.

The Part 2 of the resource mobilization plan has consisted in elaborating a campaign to create awareness about the 4 per 1000 Initiative and to call to action the identified funders.

The messaging is based on the following plan:

- What is "4 per 1000"?
- The VISION (The Mission / The 3 Goals / The triple Ambition / The Means / The Beneficiaries)
- The ACHIEVEMENTS, so far (The 4 pillars of Research / Reference criteria and Indicators for SOC project assessment / An innovative cross-functional Program of Action)
- WHY WE NEED YOU (Contribute now / How to engage in 2 steps / Thank you)
- Learn more about ...

More information [here](#)

In 2019, additional funding will be key for the development of practices, projects or policies and to implement actions on the ground.

I.FUNDRAISING

By pursuing the work initiated in 2018 towards donors, it is essential to continue to advocate and show case that the "4 per 1000" Initiative is the best option ever to move forward the projects, actions and activities on carbon sequestration in soils on a global scale.

II.FUNDER ENGAGEMENT & PARTNERSHIPS

Building a network of partnerships is the only key to enter funding mechanisms which are very complex and different from one organization to another. Forming alliances with 2nd and/or 3rd parties are strategic to build upon key common experiences and is, also, the way to involve the beneficiaries.

Source: Resource Mobilization Strategy for the 4 per 1000 Initiative - B. Breton-Askar

The collaborative platform, a real work tool!

The "4 per 1000" Initiative collaborative platform was launched last September.

Launched on September, 13, at the Global Climate Action Summit in San Francisco, the "4 per 1000" Initiative collaborative platform is open to "4 per 1000" Initiative Partners.

[For more information on how to get involved](#)

Become a militant of the "4 for 1000"!

The main challenges of the platform are to promote discussion among partners and create a knowledge base for all. To do this, we are looking for volunteers of good will wishing to become "militants of the 4 per 1000", with two types of profile:

- o **Group leaders and discussion moderators** - volunteers to participate in the animation of the different workgroups of the hub, and especially to become guides to welcome external visitors of the hub
- o **Collectors and creators of voluntary content** to gather information, reference documents and participate in the capitalization of knowledge on the Hub... These people collect and process publications and be in regular contact with our researchers in order to make information and knowledge accessible to as many people as possible.

If you are interested and you wish to get involved, contact the platform administrator by sending an email to Hub.admin@4p1000.org

Focus on the 2nd "4 per 1000" Initiative day

On the occasion of the UNFCCC COP 24 (3-14 December 2018) organized in Katowice, Poland, the "4 per 1000 Initiative: Soils for Food Security and Climate » held, the 2nd "4 per 1000 Initiative Day" on December 13, 2018, in partnership with the University of Silesia.

This 2nd "4 per 1000 Initiative" day was divided into the following:

- a high-level opening session, inspirational talks reporting successes from the ground and the 3rd Forum of Partners, opened to Members, Partners, "Friend Organizations" of the Initiative (organizations wishing to join the Initiative) ;
- the 4th meeting of the Consortium, reserved only to Members of the Initiative.

The Scientific and Technical Committee held its 6th meeting in the University of Silesia, on December 11 and 12, and reported to the Forum and the Consortium, during the Initiative day.

More than 120 people attended this 2nd "4 per 1000" Initiative Day.

Focus on the 3rd Forum of Partners (from 8:30 am to 4:15 pm)

Opening of the Forum with a High Level Segment

Welcome address by Mr Ryszard ZARUDZKI - Under Secretary of State of the Minister of agriculture, Poland ; Mr Ryszard KOZIOLEK, ProRector University of Silésia and Dr. Ibrahim MAYAKI - President of the Forum ((recorded video)

Inspirational speech by Dr. Deborah BOSSIO, Lead Scientist of The Nature Conservancy

Speaking by the Officials

To view the high level interventions, click [here](#)

Plenary sessions and working groups:

Adoption of the agenda and approval of the report of the Forum n°2 - Bonn 16 November 2017

Annual activity report 2017 & 2018 and activity report of the Scientific and Technical Committee

CIRCASA progress report with 1st survey results

Presentation of the winners of the 2018 Future Policy Awards «Agroecology» by Mr Rob van RIET, Climate Director of the World Future Council and presentation of the film on the Initiative «4 per 1000» by Kiss the Ground.

4 Thematic Workshops (90 min parallel sessions):

- Soil organic carbon good management practices: innovation and scaling up with presentations from Julien Demenois (CIRAD, Climate KIC) and a Marcelo Marzola from Fazenda Da Toca and Rizoma, Brasil
- Monitoring and Reporting of soil organic carbon for climate change mitigation and adaptation benefits at multiple levels with presentations from Tim Tennigkeit (UNIQUE forestry and land use) and Eleanor Milne (Carbon Benefits Project)
- Management of organic matter in an urban context and its link with rural areas with presentations from Cornelia Rumpel (4 per 1000 Scientific and Technical Committee) and Benoît Salsac (WORMS a.b.s.l, Brussels)
- Involvement of the private sector in the storage of soil organic carbon and offsetting emissions with presentations from Eric Soubeiran (DANONE) and Marion Verles (Gold Standard).

To view the video of the Forum, click [here](#)

Focus on the Consortium of Members (from 4.30 pm to 6.30 pm)

Opening of the meeting by M. LE FOLL, Vice-Président

Adoption of the agenda and Approval of the report of the Consortium n°3 - Bonn 16 November 2017

Welcome to new Partners and Members

Download [Listing of the consortium members and forum partners of the initiative \(Dec.13 2018, French version\)](#)

Approval of the Activity Report 2017-2018 and renewal for 2019 and 2020 of the mandates of the President Dr. Ibrahim MAYAKI and the Vice-President, Mr. Stéphane LE FOLL.

Approval of the Proposal [to set up a "Bureau"](#) to take specific decisions between two Consortium meetings.

The Consortium validated the [extension of mandate term of current members of the Scientific and Technical Committee](#) and the replacement of the departing member, Professor Pete SMITH by Dr Beverly HENRY. Dr. Beverley Henry is an Associate Professor and Principal Research Fellow at Institute for Future Environments, Queensland Univeristy of Technology - Australia

Approval of the [Roadmap for 2019](#) and Meetings of the Initiative (Forum, Consortium & STC) in 2019 and during COP25 and Adoption of the 2019 [Budget](#).

Presentations for information:

- Report of the Symposium "4 per 1000" in Africa - Johannesburg (South Africa, 24 to 26 October) by Dr Viridiana ALCÁNTARA CERVANTES and Ms Precious PHIRI - perspectives for the organization of regional meetings in 2019 (Asia, Latin America, Mediterranean, etc ...)
- Report on international scientific meetings (Rice World Congress, IUSS World Soil Congress, GRA/FACCE-JI, etc.) by members of the Scientific and Technical Committee.

Conclusion of the Consortium by M. LE FOLL, Vice-Président

See Video Consortium [here](#) (from 7:48:07)

Conference website [here](#)



They act!

Discover of different partners and members' projets

On the occasion of the 2nd Day of the "4 per 1000" Initiative held during COP24, Partners and Members of the Initiative presented various projects in the form of **posters**:

- Looking for an enabling environment to foster soil carbon sequestration - **CIRAD**, France
- Database DATA4C on soil carbon - **CIRAD**, France
- Preserve high SOC stocks in tropical volcanic soils - **CIRAD**, France
- Agroecology Training Since 1997 - **Sustainable Harvest International**, USA
- Application of biochar to increase soil carbon sequestration in Taiwan - **Taiwan Agricultural Research Institute**
- Upcoming MOOC (Massive Open Online Course) Soils for food security and climate - **Agreenium**, France
- Soil Hydrology of Sustainable Agriculture - **UC Davis**, USA
- Scaling up regenerative agriculture in Brazil - **Rizoma Regenerative Agriculture**, Brazil
- Mitigation of Climate Change through Conservation Agriculture in the project LIFE+ Climagri and replicability of the results obtained - **Asociación Española Agricultura de Conservación Suelos Vivos**, Spain
- Demain la Terre Agriculture Responsable - **Demain la Terre**, France
- Biochar for climate change mitigation: Navigating from science to evidence-based policy - **Cornell University**, USA
- Developing livelihood strategies for livestock-based communities in Zimbabwe - **Igugu Trust**, Zimbabwe
- Increasing soil carbon on 25,000 ha for water & soil fertility for 30,000 farmers - **Livelihoods Venture**, France
- Soil carbon sequestration and GHGs mitigation in the agriculture sector: Experience in paddy rice cultivation - **Ministry of Agriculture, Forestry and Fisheries and NARO**, Japan
- The practices and action plans of 4 per 1000 initiative in Taiwan - **Taiwan Agricultural Research Institute**
- Land Degradation Neutrality Fund Project Supporting sustainable land use - **MIROVA**, France
- Farming carbon Mobilising farmers' groups in favour of the 4/1000 initiative - **APAD**, France
- Support to farmers in the fight against land degradation - **ALCALODE**, Mali
- Potential for soil carbon sequestration in Soils of Sénégal - **Institut National de Pédologie**, Sénégal
- An Online Platform to Connect Regeneration Projects Around the World - **Regeneration International**, USA
- A Worldwide Movement Advocating for Soil as a Climate Solution Using Civic Engagement, Practitioner Empowerment, and Policy Creation - **Soil4Climate Inc**

To see the presentations of these different projects, 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

Save the date!

CIRCASA First Annual Meeting -
February, 4-8th - Cali, Colombia.
More information [here](#)

"The International Meeting of Agriculture of the Living", Paris, February, 20-24, 2019
Organized by Ver de Terre
Production with the participation of the movement For a Farming of the Living, "the International Meeting of the Agriculture of the Living" will be composed by a set of conferences on the agronomic fundamentals of a living soil, the agroecological practices by sectors in France and abroad, and also advances in the nutritional quality of agroecological products.
Click [here](#) to learn more and register (in French)

From 20 to 22 May 2019 the 4th World Congress on Agroforestry entitled "Strengthening links between science, society and policy" will be held in Montpellier (France).

This world congress is organized by CIRAD and INRA, with the support of Agropolis International and Montpellier University Excellence. Delegates and renowned speakers are expected in Montpellier at this great conference which will address the most significant scientific issues in agroforestry. Plenary and parallel sessions will cover topics including: Agroforestry (AF) and Climate Change - AF and desertification / Land Degradation / Soil Rehabilitation - AF, Agroecology and Ecosystem Services - AF and Smallholder Agriculture - Mediterranean AF...
The « Mitigating climate change through agroforestry » session will focus, especially, on issues related to « 4 per 1000 ».

Click [here](#) for more information

Get the [reduced rate](#) by registering before February 15, 2019

They act!

Discover of different partners and members' projets

The Soil Health Institute has convened [a conference](#) on the connections between soil health and human health.

Silver Spring, Maryland, USA - Almost 200 scientists and organization leaders listened to 41 researchers and subject experts during the two-day Conference on Connections Between Soil Health and Human Health, October 16 – 17, 2018. After the topic-rich briefings, the participants, who focus on soil health, microbiome research, nutrition, and public health, proposed research collaboration priorities, which will be outlined in a future report.

David Montgomery, Professor of Earth and Space Sciences at the **University of Washington** has [written extensively](#) on these issues and argues that regenerative agriculture practices are critical to food nutrition and security.

Brazilian researchers have focused on the role of [healthy soils and healthy foods](#) in recovering degraded mining lands.

Increasing organic matter on world croplands may be critical to both soil carbon sequestration and improved nutrition. This comprehensive [study](#) published in Nature points to important connections between soil health, climate mitigation, and food nutritional value.

Rattan Lal, Professor of Soil Science at Ohio State University and director of the Carbon Management and Sequestration Center (**School of Environment and Natural Resources, The Ohio State University, Columbus, USA**), wrote [this paper](#) on the importance of healthy soils for nutrition and for carbon sequestration.

[Research studies](#) by **three University of Illinois soil scientists** raises concerns about the impact of synthetic fertilizers on soil health.

[Soils, Food & Healthy Communities](#) is a **farmer led effort in Malawi** exploring connections between healthy soils, nutrition, and healthy rural communities.

[Fruit tree growers](#) in Washington state, in partnership with research teams at the University of Washington, are focusing on the **nutrient value of fruit and the connection to healthy soils.**

NRCS, USDA, Colorado State University
[Explicit and technical presentation of soil carbon storage solutions tested in California.](#)

Kiss the Ground has just launched their new [soil story curriculum](#). Designed for middle school students, this can be used broadly to tell the story of soils.

On the occasion of the 2nd day of the "4 per 1000" initiative, **Regeneration International** presented a [video](#) of farmers' stories.

FAO urges to scale up response to climate change in agricultural sectors [[Press release](#)]

Save the date !

The Executive Secretariat of the "4 per 1000" Initiative is working with the Ministry of Agriculture, Forestry and Fisheries of Japan to organize an **Asia regional meeting to be held in Shiga, Japan, from May 13-15, 2019**. More information coming soon in the next newsletter.

The first Australia New Zealand Biochar Study Tour and the third Conference (ANZBC19), will be held from Sunday 20 - Saturday 26 October in South Eastern Australia.

The 3 day Study Tour will take place from Sunday 20 to Tuesday 22 October.

The 3 day Conference will be held in the Melbourne Region, is hosted by the Royal Melbourne Institute of Technology (RMIT University), and will be held from Thursday October 24 to Saturday October 26.

The objective of ANZBC19 is to focus on "mainstreaming biochar" by bringing together stakeholders who wish to achieve commercial scale biochar outcomes with significant economic, environmental and social outcomes.

The ANZBC19 Study Tour and Conference will benefit those with interests and responsibilities involving, especially in Soil Health. More information [here](#)

TUFTS University (USA) is preparing, with the "4 per 1000" Initiative, the organization of a **Symposium in Boston** in December, 2019 (dates to be confirmed).

The 3rd Day of the "4 per 1000" Initiative will be held during COP25 in Chile.

The originally scheduled dates of COP25 in Chile are in November, 11-22th, 2019. COP25 could be held from January, 6-17th, 2020 (dates to be confirmed).

A meeting of the STC will also be held during COP25.

They act!

Discover of different partners and members' projets

"Revisiting IPCC Tier 1 coefficients for soil organic and biomass carbon storage in agroforestry systems »

by Rémi Cardinael, CIRAD, in collaboration with FAO

This [article](#) is an important step for the recognition of agroforestry in the carbon accounting proposed by the IPCC. Until now, agroforestry was included in the "Perennial crops" category, with many other things, such as orchards, vineyards and monospecific plantations (coffee, cocoa, tea, oil palm, coconut palms, rubber trees, banana tree...). In addition, there were only carbon storage coefficients for aerial biomass by major climate type.

Coefficients are proposed for 8 main types of agroforestry systems (alley cropping, fallows, hedgerows, multistrata, parklands, shaded perennial-crop, silvoarable and silvopastoral systems), by climate and by region, both for aerial and below-ground biomass, and great novelty, for soil carbon based on previous land use (Cropland->Agroforestry, Forest to Agroforestry, Grassland to Agroforestry).

These new coefficients are already taken into account in the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories which will be released in May 2019, and will soon be proposed for the Emission Factor Database, which is maintained by the IPCC's Task Force on National Greenhouse Gas Inventories (TFI).

Agroecology : dare the MOOC ! From February 8th...

The next session of MOOC Agroecology will start on February 8th for a duration of 6 weeks. This is an online course, open to all, free, which brings together several thousand participants from around the world in each session. This MOOC is based on the scientific skills and pedagogical know-how of **Montpellier SupAgro and its Agreenium partners**.

If you want to discover, rediscover, deepen or revise the basics of agroecology, dare to adventure by registering [here](#). Talk it over!

California is turning farms into carbon-sucking factories

In a grand experiment, California switched on a fleet of high-tech greenhouse gas removal machines in december. [Funded by the state's cap-and-trade program](#), they're designed to reverse climate change by sucking carbon dioxide out of the atmosphere. These wonderfully complex machines are more high-tech than anything humans have designed. They're called plants.

Seriously, though: Plants breathe in carbon dioxide and breathe out oxygen. They break open the tough CO2 molecule and use the carbon to build their leaves and roots. In the process, they deposit carbon into the ground. For years people have excitedly discussed the possibility of stashing carbon in the soil while growing food. Now, for the first time, California is using cap-and-trade money to pay farmers to do it on a large scale. It's called the [California Healthy Soils Initiative](#)...

Organic Center released a [2007 report](#) on declining nutritional values in foods.

The report of the **Johannesburg Symposium** is finalized. You can download it [here](#)

FAO has [fact sheets](#) and [reports](#) on the connection between healthy soils and food nutritional values.



They act!

Discover of different partners and members' projets

Two short videos from [Land Stewardship Project](#) about Midwestern farmers are also pertinent to the today's topic in relation to the Poland meetings in Poland

- [Martin Larsen talks about how extreme weather is affecting his community and how he is utilizing practices like cover-cropping to build resiliency on his farm.](#)
- [Farmers talk about the challenges posed by climate change and how building soil health can help make their operations more resilient](#)

[Ver de Terre Production](#), one of the partners of the Initiative "4 per 1000", conducted last year, an [interview with the botanist Francis Hallé](#) who speaks with great poetry of trees and agroforestry.

To watch the different videos made by Ver de Terre Production, click [here](#)



This 2004 [US Department of Agriculture study](#) showed a significant decline in six nutrients essential to the food value of primarily vegetable crops from 1950 to 1999. Authors speculated that the cause might be connected to varieties grown but [others](#) have speculated about other changes in agricultural production that took place in this period.

The "4 per 1000" Initiative in a few figures...

359 Partners and 281 Members (December, 2018)

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, 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 \(December 13rd, 2018\)](#)



"4 per 1000" Initiative, Soils for Food Security and Climate



Save the date!

International conference «Food Security and climate change: 4 per 1000 new tangible initiative for soil », will take place in Poitiers on 18-20 June 2019.

The conference will focus on 3 areas:

- Explore the controversies that exist in the implementation of Initiative 4 %
- Explore how this "initiative" will affect the role and influence of different research communities in knowledge production networks?
- Explore scientific studies and practical experiences that will unravel the locks and opportunities of carbon storage in different parts of the world.

We invite you to join us to learn and share your experiences around this initiative and better coordinate the various efforts for the success of this strategic initiative for food security and climate.

More information [here](#)

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



Any ideas, any suggestions...

Please send an email to the Executive Secretariat:

secretariat@4p1000.org