One Forest Summit

Event – 1st March 2023

One Forest Vision

Part 1 – Recent advances in forest monitoring (1h30)

Part 2 - Governance, partnership, training, research needs for a fair data platform (1h30)

PILLAR 1

Concept of the event

Tropical rainforest are key ecosystems as vital reserves of carbon and biodiversity, but are currently under threat. In order to conserve the environmental integrity of these irrecoverable carbon and biodiversity pools, the One Forest Vision initiative offers to deliver the most recent monitoring methods combining remote sensing, IA and data from forest inventories, biodiversity, carbon cycle and sustainable practices.
The One forest Summit will be a unique opportunity to promote the partnership for a fair integrative data portal on the basis of this initiative, as well as capacity building and citizen science.

Program

10h-11h30 : Part 1 - Advances in forest monitoring : Que savons-nous (et ne savons-nous pas) sur l'état des forêts tropicales autour du monde ?

Chairs :

Sylvie Retailleau, Minister of Higher Education and Research (France)

Patrick Daouda Mouguiama, Minister of Higher Education, Scientific Research, Technology Transfer, Culture and Arts (Gabon)

In the **Session 1**, review the status of forest around the World, including the 3 major tropical forest blocks as well as trends in deforestation and reforestation. It will assess monitoring methods of threats to forests, such as development, deforestation, fire, insects, climate, droughts and highlight drivers of forest loss and degradation.

Facilitator: Aboubakar Ndjoungui Mambimba (AGEOS)

Rapporteur : Jean-François Soussana (INRAE)

- Mat Hansen (U. Maryland), forest cover, deforestation, degradation, forest recovery around the tropics and the World (developed and developing nations) - Global Forest Watch
- Thierry Koleck (CNES) forest monitoring- Tropisco
- Maurice Mugabowindekwe (Copenhagen U., U. of Rwanda, Kigali) – Expected improvements in capacity for space-based monitoring over the next decade
- Simon Lewis – on the ground monitoring of the health of tropical forests around the world
- Pierre Ploton (IRD) and Lucie Temgoua (Université de Dschang, Cameroun) – integrating forest inventories data for understanding forest resilience and vulnerability

The **Session 2** will highlight the key roles of the three main tropical forests (in Africa, Asia and South America), as stores and sinks for carbon, as key sanctuaries for **biodiversity**, as the source of atmospheric rivers that can influence weather patterns hundreds and even thousands of kilometers away, in generating rainfall, cooling cities and landscapes and other ecosystem services. Ideas for valuing ecosystem services will be discussed and other ways to save the standing forests and to promote natural forest regeneration.

Session 2: the ecological / climatic roles of forests and how they may change in coming decades

Facilitator: Laurent Durieux (IRD)

- Mouhamadou Bamba Sylla (Kigali, Rwanda)- climate changes and future of rainforest
- Raphael Tshimanga – Hydrological trends in the Congo basin
- Sabrina Krief (MNHN) - Biodiversity trends in tropical forests

- Panel : Yadvinder Malhi (Oxford U.), Yves Laumonier (CIFOR) and Gilvan Sampaio (INPE) – The ecological trends and incoming changes in the tropical rainforests

Discussion and Wrap-up: *One Forest Vision*; **Jean-François Soussana (INRAe)** (Rapporteur)

12h-13h30 : Part 2. Governance, partnership, training, research needs for a fair data platform

Chairs :

Sylvie Retailleau, Minister of Higher Education and Research (France)

Patrick Daouda Mouguiama, Minister of Higher Education, Scientific Research, Technology Transfer, Culture and Arts (Gabon)

Facilitator: Alain Billand (CIRAD)

Rapporteur: Alfred Ngomanda (CENAREST)

This session will promote collaboration and a forests database articulating regional nodes at a global level, and capacity building in developing countries through training, mentoring and collaborations. To do so, we propose to highlight lessons learned from past and ongoing projects and networks in the three tropical regions, and then discuss the challenges on the governance of global forest database.

Session 3: Long-term field and remote sensing data sets needed for detecting trends in forest biodiversity and responses to climate change

- Kate Abernethy and Donald Midoko – Lopé (ANPN et Université Sterling) and Ipassa (IRET/CENAREST) research stations
- Pascal Bonnet (Cirad)
- Richard Eba'a (CIFOR) and Florence Palla (OFAC) – Towards a fair and open regional platform for sharing high quality rainforest data

Session 4: past and incoming Networks - state of arts, capacity building needs and governance challenges. Towards an articulated network of regional forest data repositories

- Central Africa – R2FAC (Faustin Boyemba), RIFFEAC (Claude Kachaka)
- Amazon/Brazil – LBA (Gilvan Sampaio, INPE)
- CBCSI – Emma Torres (UN-SDSN) and Raphael Tshimanga

Discussion: Which future governance for the platform in Central Africa?

- Role of civil society : Henri Verdier (Ambassadeur pour le numérique), Nathalie Nyare Essima (WWF)
- Gilles Kleitz (AFD)
- Christian Ruck (PFBC facilitator, Germany), Hervé Maidou (Secrétaire exécutif de la Comifac) ;

Global-Wrap-up: *One Forest Vision*; **Alfred NGOMANDA** (CENAREST) (Rapporteur)

Contacts

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