

Agenda item 4(a)iii.

Innovative approaches for adaptation technologies

TEC/2021/22/6

Technology Executive Committee, 22nd meeting

Virtual meeting, 20-23 April and 26 April 2021 (TEC-CTCN Joint session)



Ariesta Ningrum, UNFCCC secretariat

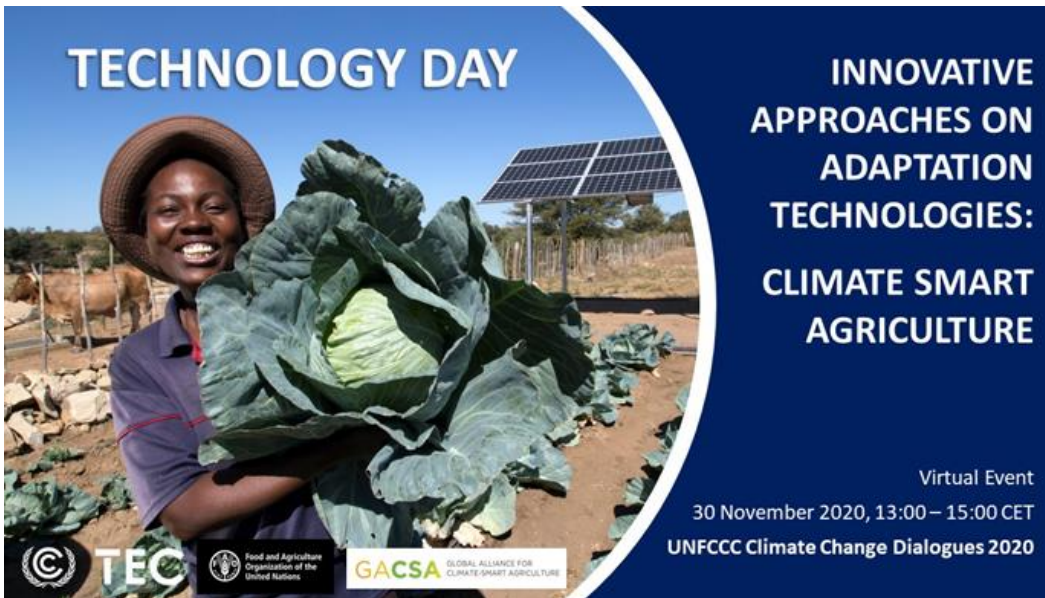
Ali Raza Rizvi/Emily Goodwin, IUCN

Rojina Manandhar/ Ali Raza Rizvi, UNFCCC secretariat / IUCN

*Part 1: Report of Launch of Technology
Day and first thematic session – Climate
smart agriculture*



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TECHNOLOGY DAY

INNOVATIVE APPROACHES ON ADAPTATION TECHNOLOGIES: CLIMATE SMART AGRICULTURE

Virtual Event
30 November 2020, 13:00 – 15:00 CET
UNFCCC Climate Change Dialogues 2020

Logos: UNFCCC, TEC, Food and Agriculture Organization of the United Nations, GACSA (GLOBAL ALLIANCE FOR CLIMATE-SMART AGRICULTURE)

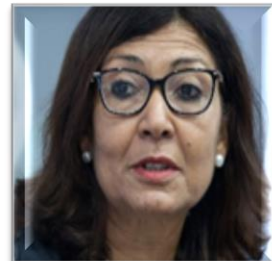
The banner features a woman in a hat holding a large head of cabbage in a field with solar panels in the background.

- Launched during the Climate Dialogues on 30 November 2020
- Thematic session on climate smart agriculture followed
- 300 participants, 12 Speakers



The twin crisis of COVID and Climate change are crying out for innovation and in many cases technological solutions

We need to bolster technology and innovation in agriculture to optimize use of our natural resources, minimize negative impacts on environment and adapt to climate change



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Panel discussion on successful innovative models and approaches, lessons learned and good practices

Moderated by Hindu Oumar



State of play – GACSA and CGIAR

Enabling policy for innovation – Govt of Ireland

Innovation from business perspectives - WBCSD

Improving resilience of smallholder farmers - FAO

Innovative financing - AFB

Role of digitalization - FAO



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- **Technology and Innovation** can facilitate access to food, water and provide information for decision making
- Many innovative **climate smart technologies** with **multiple co-benefits**



- **Partnership and collaboration** to scale up and make technology accessible to farmers
- **Working together with women, youth, the indigenous community** is key



- **Transformative thinking** required to **scale up new technologies**
- **Transforming the innovation** system to work better with other players is crucial



- **De-risking the agriculture value chain** and bringing **private sector investment**
- **Policy and institutional change** are important



*Part 2: Second thematic session –
Strengthening coastal and ocean
adaptation*



Why EbA and a hybrid approach?

- Ecosystem-based adaptation (EbA):
 - Makes active use of biodiversity and ecosystem services to help people adapt to climate change and generate multiple benefits.
 - Supports equitable governance and enhances capacities.
 - Is inherently part of an overall adaptation strategy and linked to policies at multiple levels.
- Business-as-usual application of adaptation technologies has not been enough.
- Technology and innovation for ocean health was highlighted as a key action by the NWP Expert Group on Oceans.
- Adaptation and technology must be further integrated and upscaled in innovative ways to build a resilient future.

Why oceans and coastal areas?

- Priority area under the NWP.
 - The ocean is critical to the global climate and being impacted by climate change and other stressors.
 - People around the world live in coastal areas and rely on the ocean's natural resources.
 - Ocean and coastal ecosystems can help communities adapt to climate change.
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Session title:

Innovative approaches to strengthening coastal and ocean adaptation

Objectives of the session

Present and discuss innovative learning and examples from integrating technology and EbA in various policies and programmes to build the resilience of oceans and coastal ecosystems and communities, in particular to:

- Identify emerging innovative technologies with high potential.
- Showcase and discuss various innovative approaches for integrating technological solutions.
- Explore how indigenous and local knowledge has been integrated.
- Highlight the importance of safeguards for climate technology.



Overview of the Session

- Opening and introductory remarks
- Keynote speaker
- Moderated panel discussion on **Successful Innovative Models & Approaches, Lessons Learned and Good Practices**. Topics may include:
 - Coastal resilience work
 - Climate technology, safeguards, and Indigenous Peoples
 - Green-gray infrastructure and hybrid solutions
 - Health and technology in ocean and coastal settings
 - Regional perspective
 - Innovative policy and finance
 - Fostering the blue economy
- Moderated Q&A with audience
- Concluding remarks from panellists
- Summary of the session and next steps
- Closing remarks from the UNFCCC Secretariat



Part 3: Potential collaboration



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Why is long-term partnership needed?

- To respond to the increasing threat of climate change and to achieve the goals of the Paris Agreement
- Innovative approaches using adaptation technologies, including hybrid technologies, are needed to build resilience



Proposed plan for collaboration (to address the challenge)

Long-term:

- Continue the TEC partnership with FEBA and the NWP to support developing countries:
 - Meeting technology needs in NDCs
 - Providing operational guidelines to developing countries on integrating technologies into adaptation projects (e.g. formulating and implementing national adaptation plans)
 - Promoting R&D and integrating innovative technologies into adaptation policies and practices
 - Informing & influencing investment strategies

Immediate proposed next steps:

- Policy brief leading to recommendations to the COP
- Possible creation of a joint FEBA working group on advancing innovative adaptation technology, in collaboration with the TEC and the NWP (in partnership with NWP thematic groups: oceans, biodiversity, agriculture and food security)



TEC consideration

- a) **Take note** of the report of the first thematic session on Innovative approaches to deploy, disseminate and scale-up technologies and solution for climate smart agriculture
- b) **Provide guidance** for the upcoming thematic session on coastal and ocean adaptation, in particular:
 - Possible topics to be discussed during the panel discussion;
 - Continued engagement on this theme and potential future collaboration to advance innovative adaptation technologies.



Thank you!



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