

Agenda item 4(a)iii- Emerging and transformational adaptation technologies

Supporting Early Warnings for All initiative through innovation and transformational technologies

Concept and design of the TEC-GEO Knowledge product on innovation for risk knowledge

Technology Executive Committee, 27th meeting and TEC-CTCN Joint session
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Background

As per activity A.3.1 of the TEC rolling workplan for 2023–2027, the TEC is to engage in work on emerging and transformational adaptation technologies by identifying and analysing emerging and transformational technologies for adaptation (e.g. early warning systems and disaster risk management), including the role of finance and the private sector in supporting their deployment.

The TEC is to engage with potential partners in 2023 to identify areas for collaboration on the topic of emerging and transformational adaptation technologies that contribute to reducing vulnerabilities and strengthening resilience. A related knowledge product is expected to be published in 2024.

At TEC 26, the TEC agreed to focus the work on this activity on early warning systems, and subsequently, through the UNFCCC secretariat, joined the Early Warnings for All initiative. In particular, the TEC has embarked on a collaborative partnership with the Group on Earth Observation (GEO) for the development of the abovementioned knowledge product, with a focus on innovation for risk knowledge.

The activity group supporting the implementation of the A.3.1 activity of the TEC rolling workplan, in close collaboration with the GEO, has developed a scoping note on the scope and design of the knowledge product, as contained in document TEC/2023/27/6.



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Focus and key elements

The knowledge product will provide examples of **existing and emerging technologies**, **tools and innovation** that could help **improve 'risk knowledge and information'** in response to context-specific needs and priorities of most vulnerable communities (especially in the SIDS and LDCs) with regard to **accessing support for the implementation and scale-up** of **MHEWSs**, including by promoting **impact-based decision making** and **risk-informed adaptation** planning and action.

The **main elements** of this knowledge product may include:

- A summary of key **gaps and challenges in risk knowledge and information** that hinders the access to support for MHEWS, including **regional perspectives**;
- Identification of **prioritized technologies** with transformational impacts for improving risk knowledge and information and examples of their **application in different contexts**;
- Key **findings and recommendations** for various actors across the **early warning value chain**.



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Sources of information and means of gathering data

Written information

Reports, information notes, databases, assessment studies

- Desk research and review
- Synthesis and analysis

Practical insights

Regional/sectoral leads in climate funds, implementing agencies of climate funds, and providers of technical assistance and capacity-building in the areas of MHEWS and early action

- Expert interviews
- Bilateral exchanges

Case studies and good practices

Country case studies from different regions (including from the Early Warnings for All work)

- Curating cases from:
- TEC(/CTCN) members & partners
 - GEO(/CTCN) networks
 - Early Warnings for All partners

Consultation, feedback & verification of findings

All stakeholders across the early warning value chain, including through communities of practice and expert groups

- Information exchange and consultation sessions with stakeholders and partners
- Written reviews/feedback



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Target audience and potential users

The knowledge product will provide valuable insights on harnessing climate technology and innovation in developing evidence-based and scientifically-sound projects and programmes that could inform a range of actors across the early warning value chain in their actions.

- **Country teams** that are in charge of developing proposals and implementing projects with a focus on MHEWS and climate resilience
- **Providers of technical assistance and capacity-building**
- UNFCCC **Parties, bodies** and relevant **processes**
- **Funding entities** and their **implementing partners**
- Partners and stakeholders of the **Early Warnings for All Initiative** across all pillars



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Proposed next steps

Timeline	Expected deliverables	Proposed means/actions
October – November 2023	Defining the scope of the knowledge product and development of a draft outline.	<u>Gathering information and insights</u> through e.g. desk research , virtual information session(s) with stakeholders, and bilateral exchanges with relevant partners and experts.
November – December 2023	Gathering and analysing information to identify key gaps and priorities and verifying the findings.	<u>Soliciting feedback and inputs from stakeholders, partners and experts</u> , including at the margins of flagship events e.g. the UNFCCC RCWs , GEO week 2023 , COP 28 , and meetings of constituencies and constituted bodies .
December 2023 – February 2024	Identifying and supplying cases/good practices .	<u>Finalizing the outline of the document and identifying case studies</u> for inclusion in the knowledge product, in consultation with relevant experts and partners
February 2024 – TEC 28	Development of a first draft of the knowledge product for consideration at TEC 28	<u>Seeking expert feedback and review</u> on the draft including through communities of practice and expert working groups convened by the GEO and other Early Warnings for All partners.
After TEC 28	Further develop the draft knowledge product, with a view to finalize and release the knowledge product in 2024.	



Guiding questions for discussions

While discussing the issue, the TEC may wish to consider the following guiding questions:

1. Do you have any suggestions for **refining the suggested concept and design** of this knowledge product?
2. Considering the audience and potential users of this knowledge products, **what type of knowledge product** would be the most fit-for-purpose in your opinion?
3. Do you agree with the **proposed next steps**?
4. Are there **other considerations** that may enrich the work of the TEC in the development of the knowledge product and engagement with Early Warnings for All initiative?

Thank you!



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