



Nature-based Solutions to emerging water management challenges in the Asia-Pacific

Publication launch webinar October 12, 2022



Welcome to participants

Facilitating team:



Alejandro Jiménez
Consultant
UNEP-DHI



Heather Jacobs
Knowledge and research specialist
CTCN



Lisbet Rhiannon Hansen
Programme advisor
UNEP-DHI



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Senior technical advisor
UNEP-DHI

Agenda

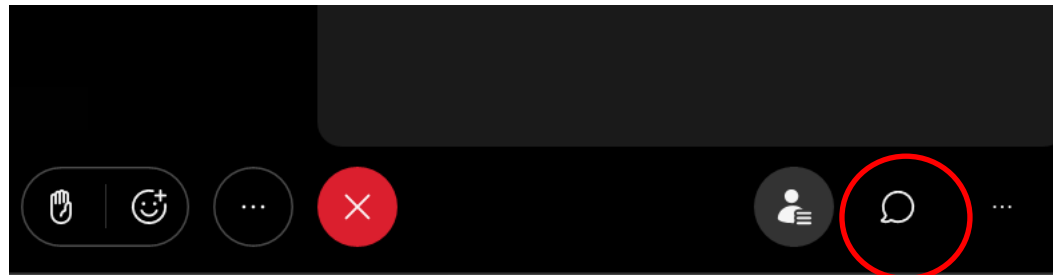
Facilitator: Alejandro Jiménez

1. Opening remarks: **Lis Mullin Bernhardt**, Programme Officer, UNEP Freshwater Ecosystems
2. Setting the scene and publication launch: **Heather Jacobs**, Knowledge and Research Specialist, CTCN
3. Case study presentations:
 - **Prasoon Singh** (The Energy and Resources Institute (TERI)): Designing ecosystem-based solutions for building urban resilience in Laos
 - **Katie Bimson** (International Union for the Conservation of Nature (IUCN)): Mekong WET: Building Resilience of Wetlands in the Lower Mekong Region through a Ramsar Regional Initiative
 - **Ganapathy Ganeshan** (Consortium for Decentralised Wastewater Treatment Systems (DEWATS) Dissemination): NbS for Lake Rejuvenation in Coimbatore
4. Panel discussion
5. Thank you and wrap-up



Housekeeping

1. Please keep your microphones muted
2. Ask questions in chat box
3. Comments, remarks, sharing of experiences also welcome throughout the webinar!



Use the Chat box to ask questions you have

Opening remarks

Lis Mullin Bernhardt

Deputy Head
UNEP Freshwater Ecosystems Unit



Overview of the CTCN and Publication launch

Heather Jacobs

Knowledge and Research Specialist
CTCN



https://www.ctc-n.org/sites/www.ctc-n.org/files/resources/CTCN_Brief_AsiaPacific.pdf



UN Climate Technology Centre and Network - CTCN

The CTCN was established in 2013 as the implementation arm of the UNFCCC Technology Mechanism, hosted by UN Environment Programme (UNEP) with support of 11 Consortium partner institutions.

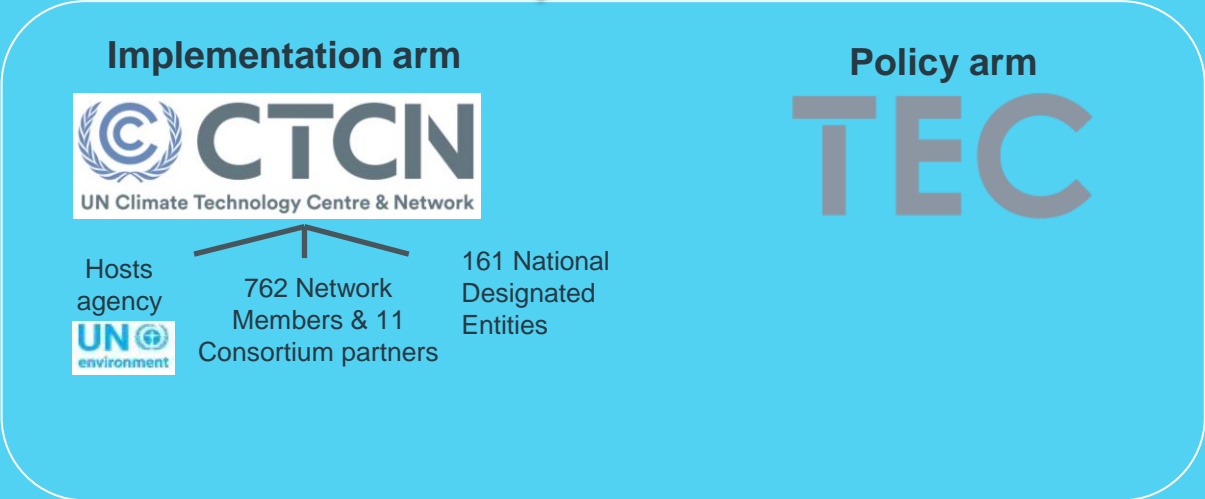
To promote the accelerated development and transfer of climate technologies at the request of developing countries for energy-efficient, low-carbon and climate-resilient development



**UNFCCC
Technology
Mechanism**

**Conference
of Parties**

**UNFCCC
Financial
Mechanism**



11 Consortium members

- 762 Network Members
- 3 regional offices
- 1 Partnership and Liaison Office
- 161 National Designated Entities



CTCN Partnership & Liaison Office

Ministry of Science and ICT
Incheon Metropolitan City





- Agriculture
- Carbon Fixation & Abatement
- Energy Efficiency
- Forestry
- Industry
- Renewable Energy
- Transport
- Waste Management

CTCN Services

TECHNICAL ASSISTANCE

KNOWLEDGE SHARING

COLLABORATION & NETWORKING



- Agriculture & Forestry
- Coastal Zones
- Early Warning & Environmental Assessment
- Human Health
- Infrastructure & Urban Planning
- Marine & Fisheries
- Water

Technical Assistance -- Overview

365

Requests for technical assistance received to date

155

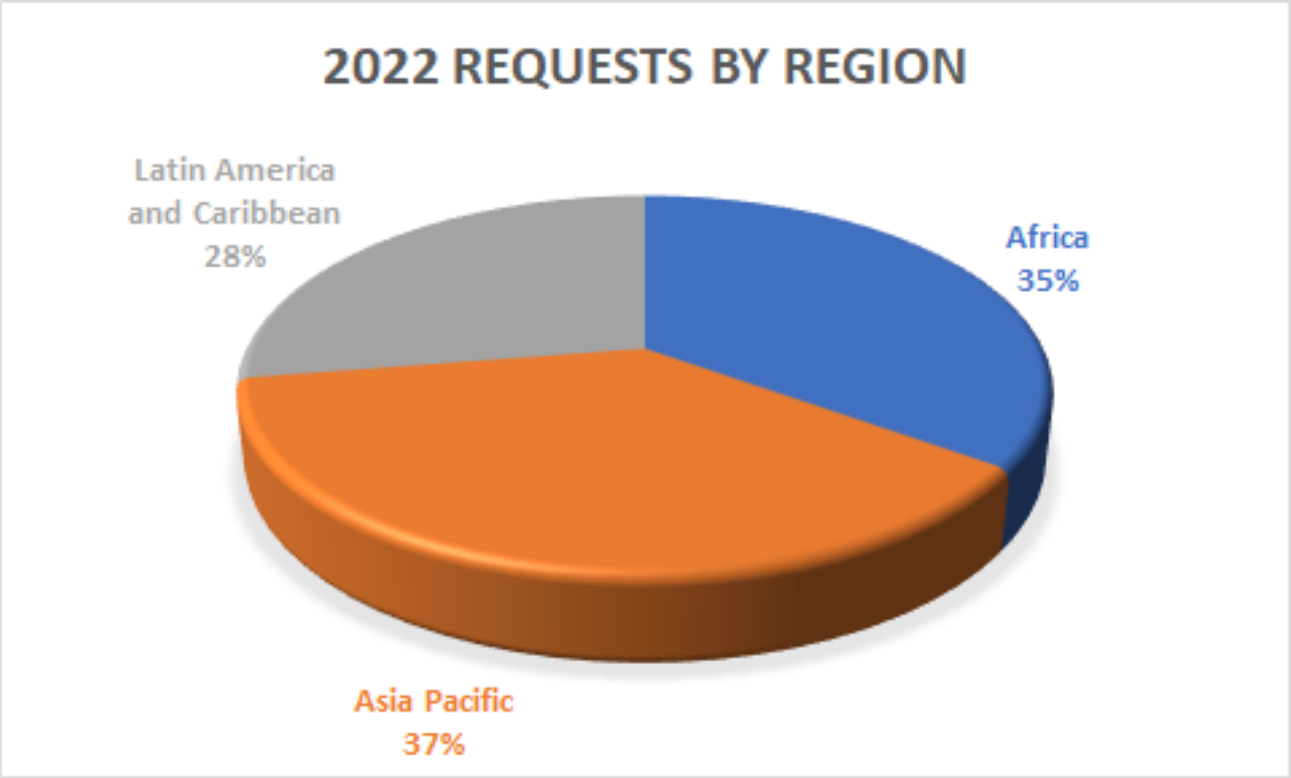
Completed

73

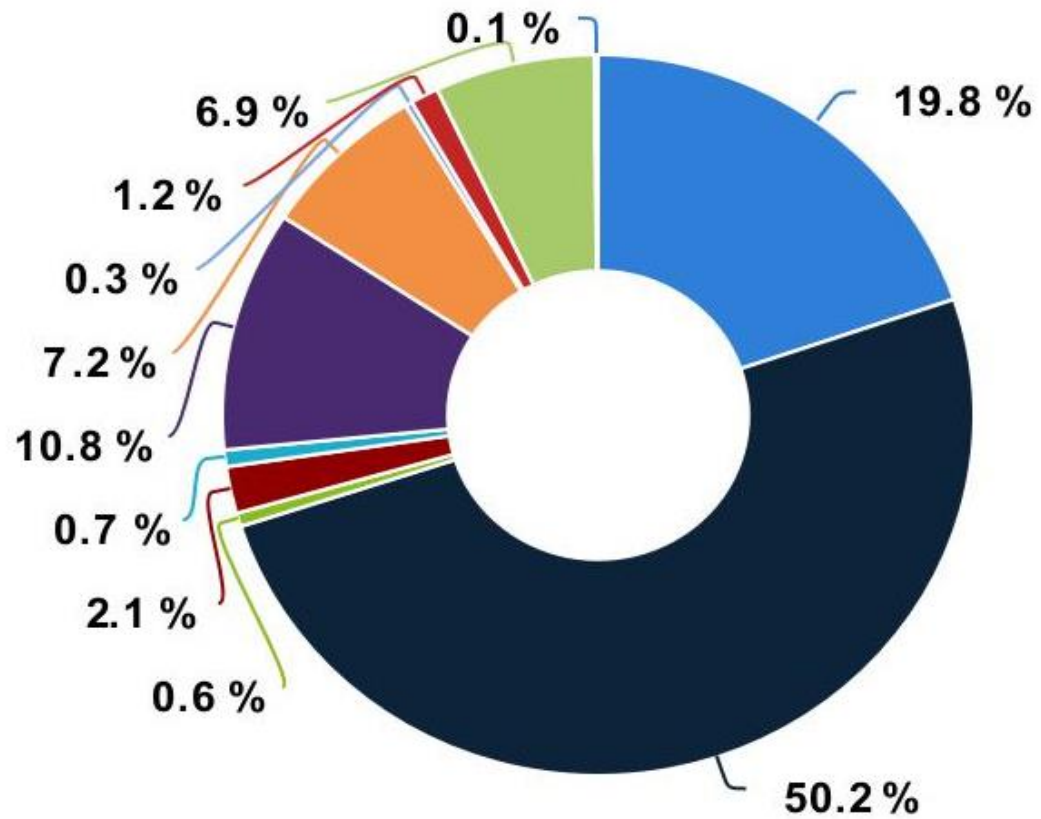
Under Implementation

40

New requests in 2022

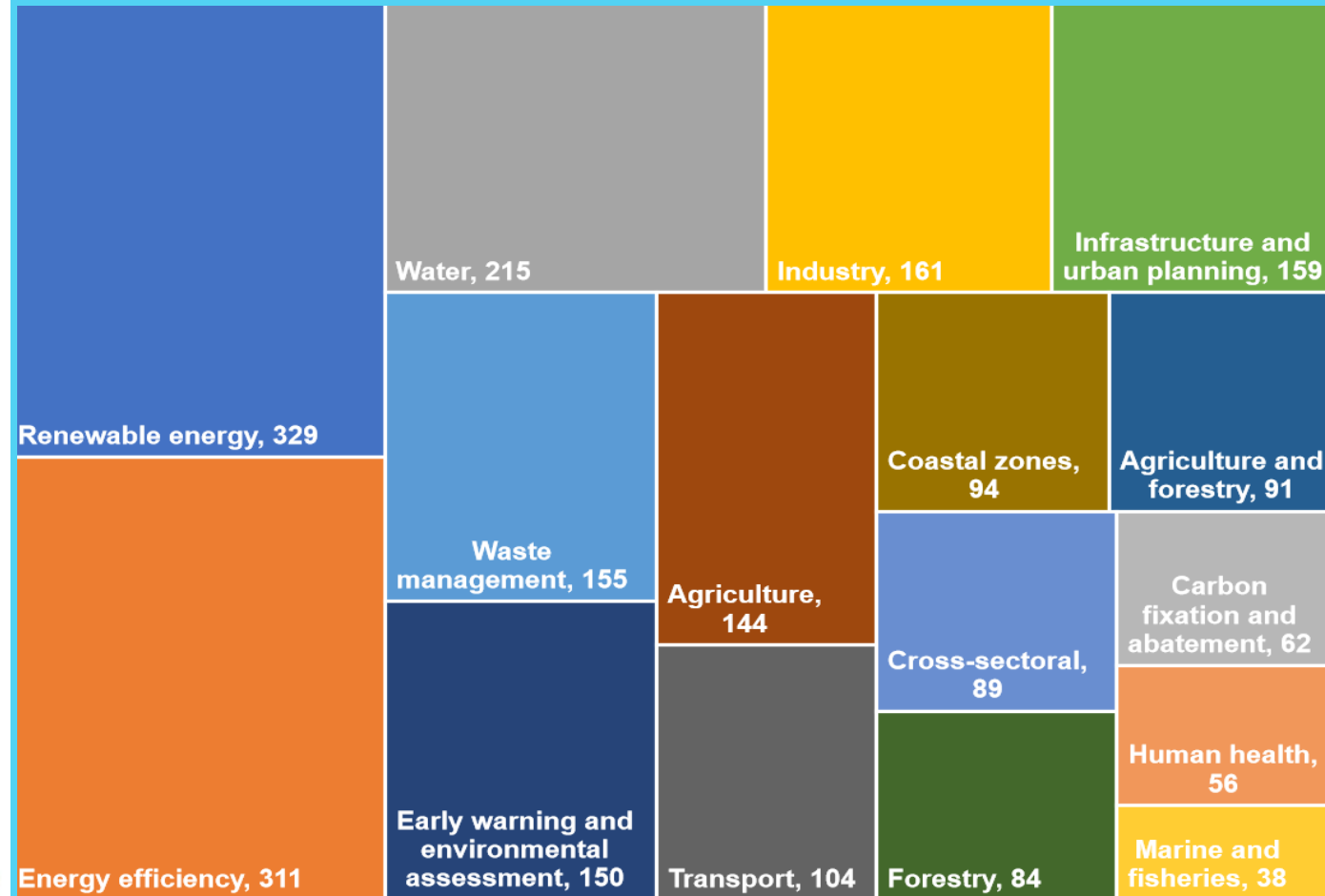


Distribution of Network Members by institution type and sectoral areas of expertise



- Research and academic institution
- Private sector organization
- Financial institution
- Intergovernmental organisation
- Initiative
- Non-governmental organisation
- Not for profit organisation
- Other
- Partnership
- Public sector organisation
- Regional organisation

762 Network Members

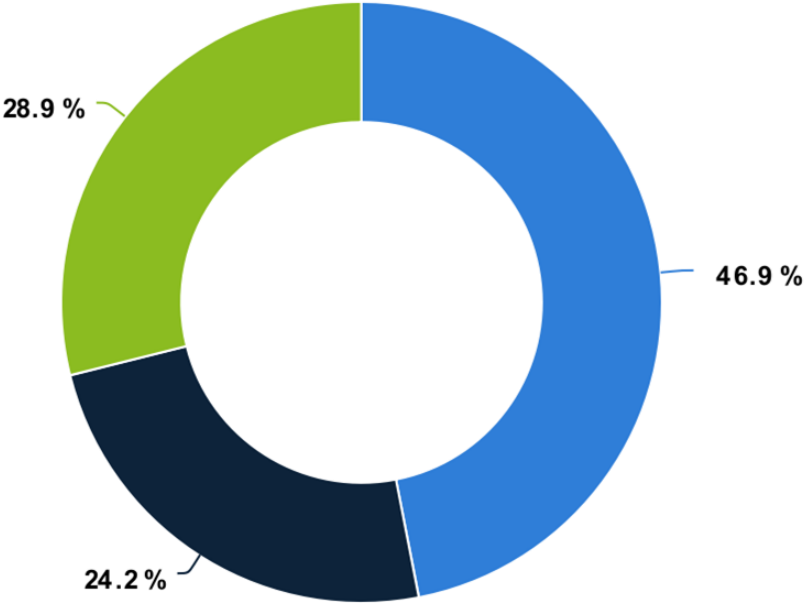


Technical Assistance Projects: 2014-2021 vs. 2021-2022

We're seeing an increase in adaptation and cross-sectoral requests, with a decrease in mitigation requests

From 2014 - 2021

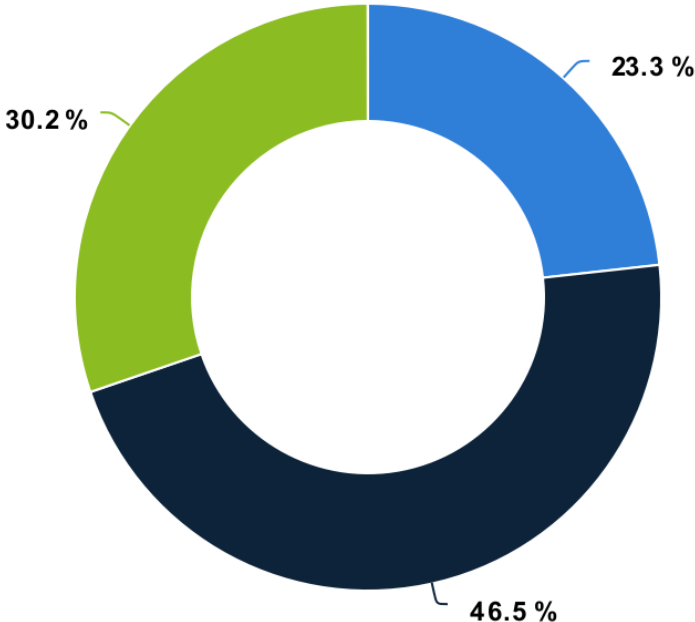
Distribution of requests by objective



Mitigation Adaptation and mitigation Adaptation

Requests received over the past year

Distribution of requests by objective



Mitigation Adaptation and mitigation Adaptation

CTCN technical assistance related to NbS



Protecting ecosystems

- The identification of projects for the greening and resilience of the land and coastal areas of the Commune of Cocody, Abidjan
- Identification and characterisation of potential sand resources for beach rehabilitation in Mauritius

Restoring and developing ecosystems

- Formulation of Kenya's ten-year national agroforestry strategy (2020 – 2030)
- Technical support to formulate a National Agroforestry Policy for Nepal
- Development of an integrated and comprehensive agroforestry policy
- Design of an ecological response and restoration platform against fires for the Chilean silvo-farming sector
- Cost-benefit assessment of mitigation options in rice production for Vietnam

Sustainable Development Goals



Sustainable Development Goals



Creating Ecosystems (urban design)

- Development of a Climate Smart City in Kurunegala
- City Climate Vulnerability Assessment and Identification of Ecosystem-based Adaptation Intervention in Laos



Introducing the knowledge brief: *Nature-based Solutions to Emerging Water Management Challenges in the Asia-Pacific Region*

- The knowledge brief was written by **Maija Bertule and Lisbet Hansen** of UNEP-DHI with input from the CTCN and the NbS expert panel comprised of leading experts with experience in development of NbS projects and initiatives in the Asia-Pacific Region.
- Brief **seeks to highlight the potential of NbS in the Asia-Pacific region** by presenting a collection of **16 case studies** representing **rural, urban, and coastal** environments.
- **Why focus on NbS for water management?** NbS offer one of the most effective and cost-efficient ways to address the complex challenges of clean water provision, climate change adaptation and livelihood resilience in an integrated way.



Nature-based Solutions to Emerging Water Management Challenges in the Asia-Pacific Region

Introducing the knowledge brief: *Nature-based Solutions to Emerging Water Management Challenges in the Asia-Pacific Region*

Some of the barriers to NbS

- Cost-benefit analysis more complex than for conventional built infrastructure; value of NbS solutions is often difficult to quantify; difficult to manage natural infrastructure when the asset is an entire ecosystem
- Broad stakeholder involvement is challenging -- often located across geographic and administrative boundaries
- Working with and reshaping ecosystems: takes time to see results

Opportunities For Scaling Up NbS

- **Mainstreaming NbS** into climate change adaptation and mitigation, and national development plans, NDCs, NAPs, disaster risk management, SDG coordination, and existing mechanisms of participatory governance.
- **Creating a favourable enabling environment** for NbS implementation, including the creation of regulatory environments and incentives.
- **Building stakeholder capacity and awareness on NbS**, including through knowledge sharing and innovation platforms and regional initiatives.



Preview of the next knowledge brief: *Harnessing technology in the circular economy for climate action in Africa*

- The next knowledge brief will be focused on Africa - addressing the harnessing of technology in the circular economy for climate action
- Developed jointly with Kenya Climate Innovation Center
- Due to be launched at end of 2022/early 2023

Harnessing Technology in the Circular Economy
for Climate Action in Africa





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Supported by





Questions and panel discussion

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