



CTCN

CLIMATE TECHNOLOGY CENTRE & NETWORK
UNFCCC Technology Mechanism



Linking UNFCCC mechanisms

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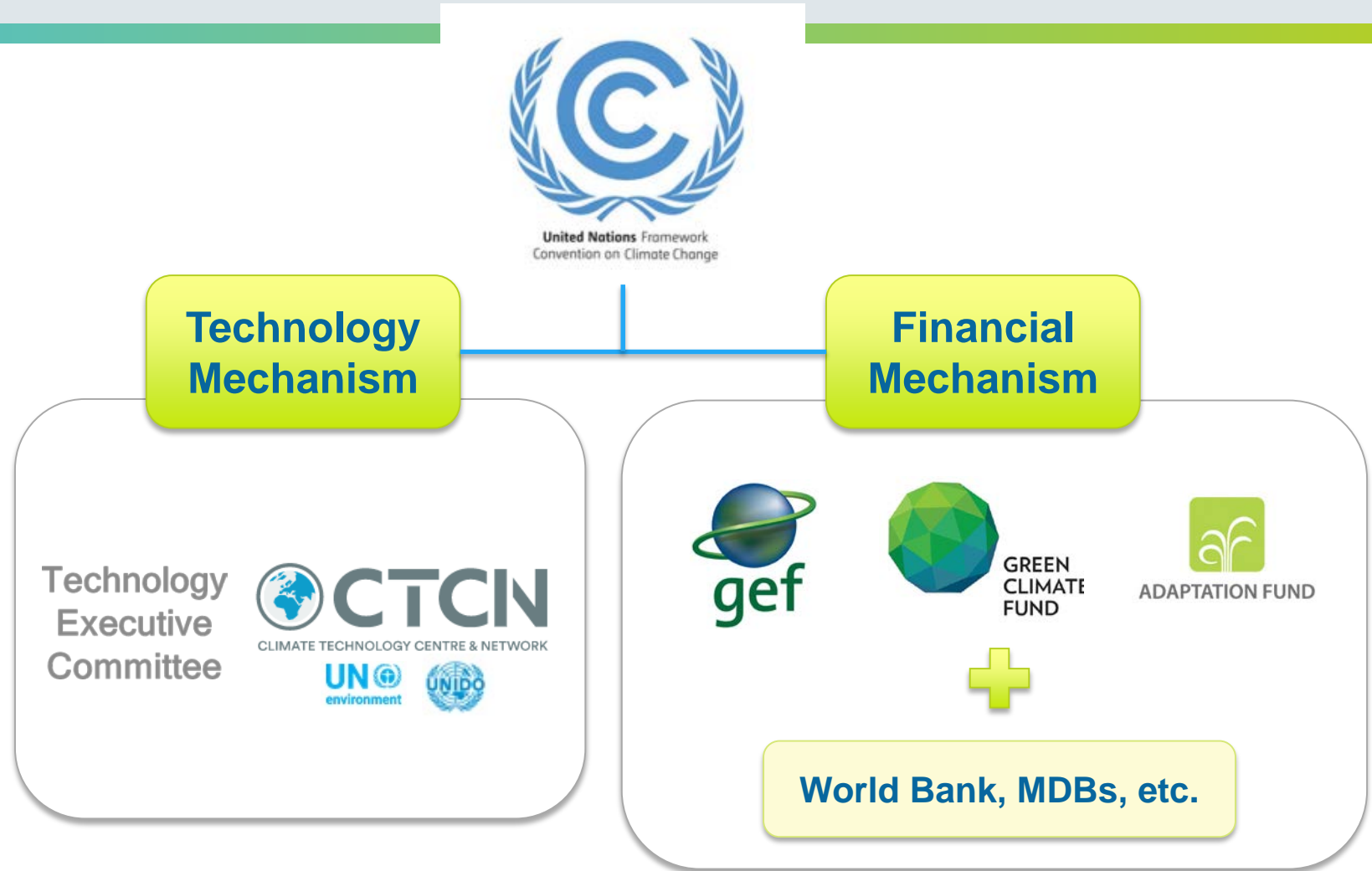
Rome, 18 October 2019



CTCN: UNFCCC Technology Mechanism

UN Climate Technology Centre and Network (CTCN) is the operational arm of the UNFCCC Technology Mechanism.

Our mandate is to support the development, transfer, deployment and dissemination of climate technologies that can deliver mitigation or adaptation outcomes.



CTCN service areas and core sectors



↓ **MITIGATION**

- Agriculture
- Energy Supply
- Forestry
- Industry
- Transport
- Waste Management

↻ **ADAPTATION**

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

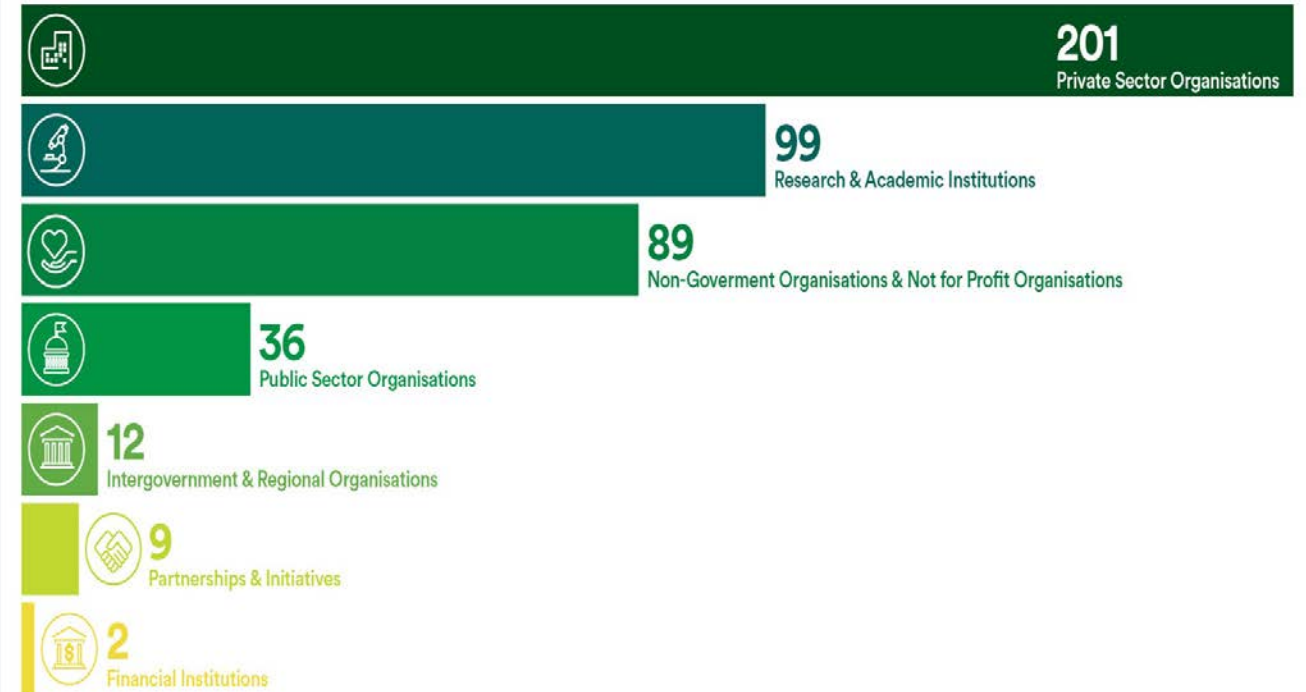
CTCN: Centre & Network



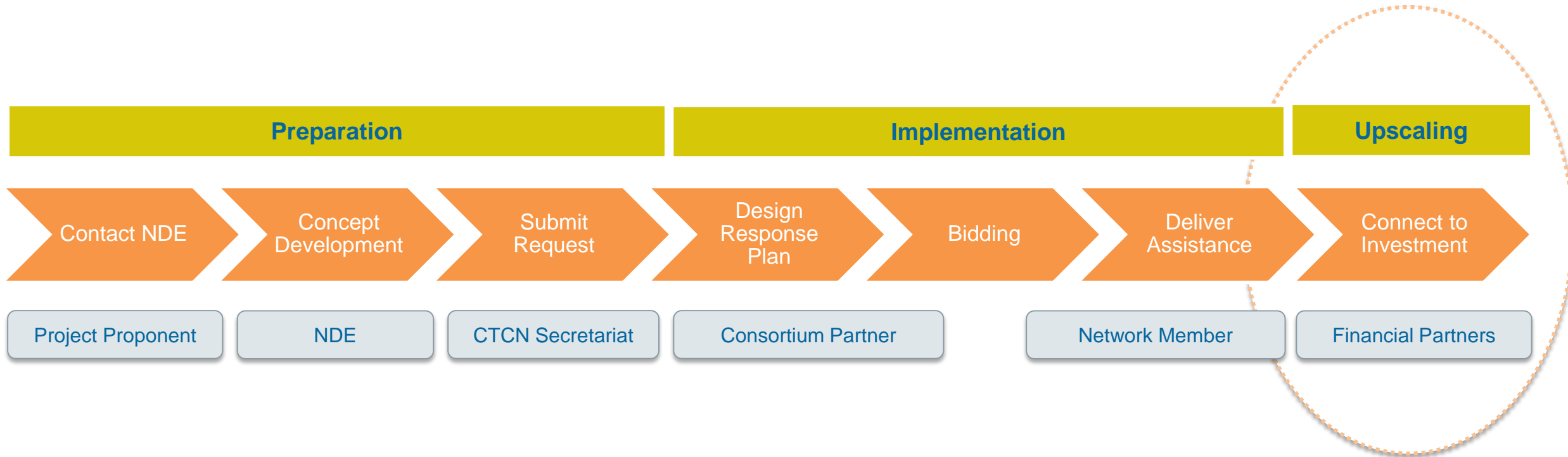
Network



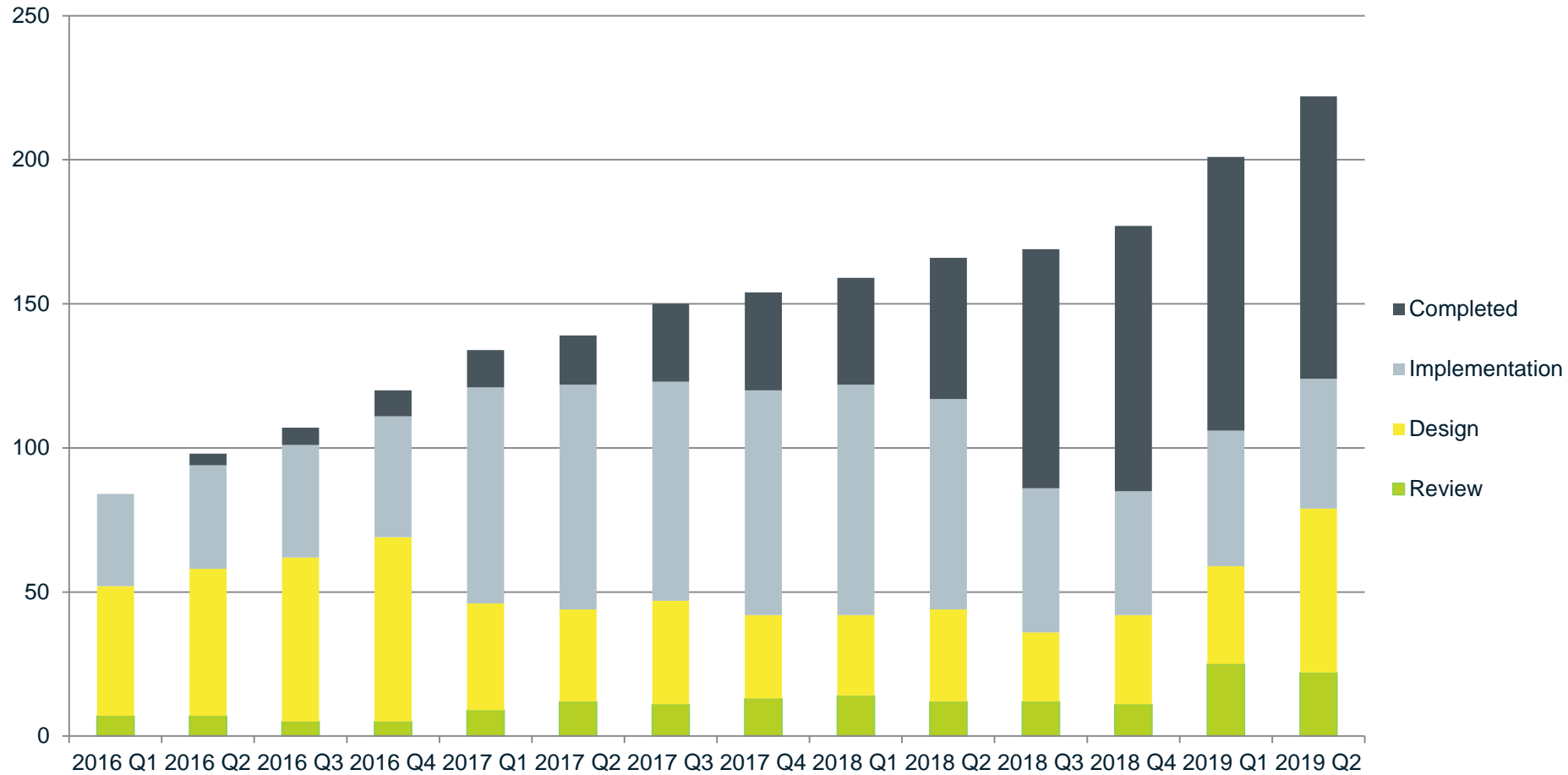
Distribution of Network Members by Type of Institution



CTCN Technical Assistance: How it works



Requests for Technical Assistance



270

REQUESTS

FROM

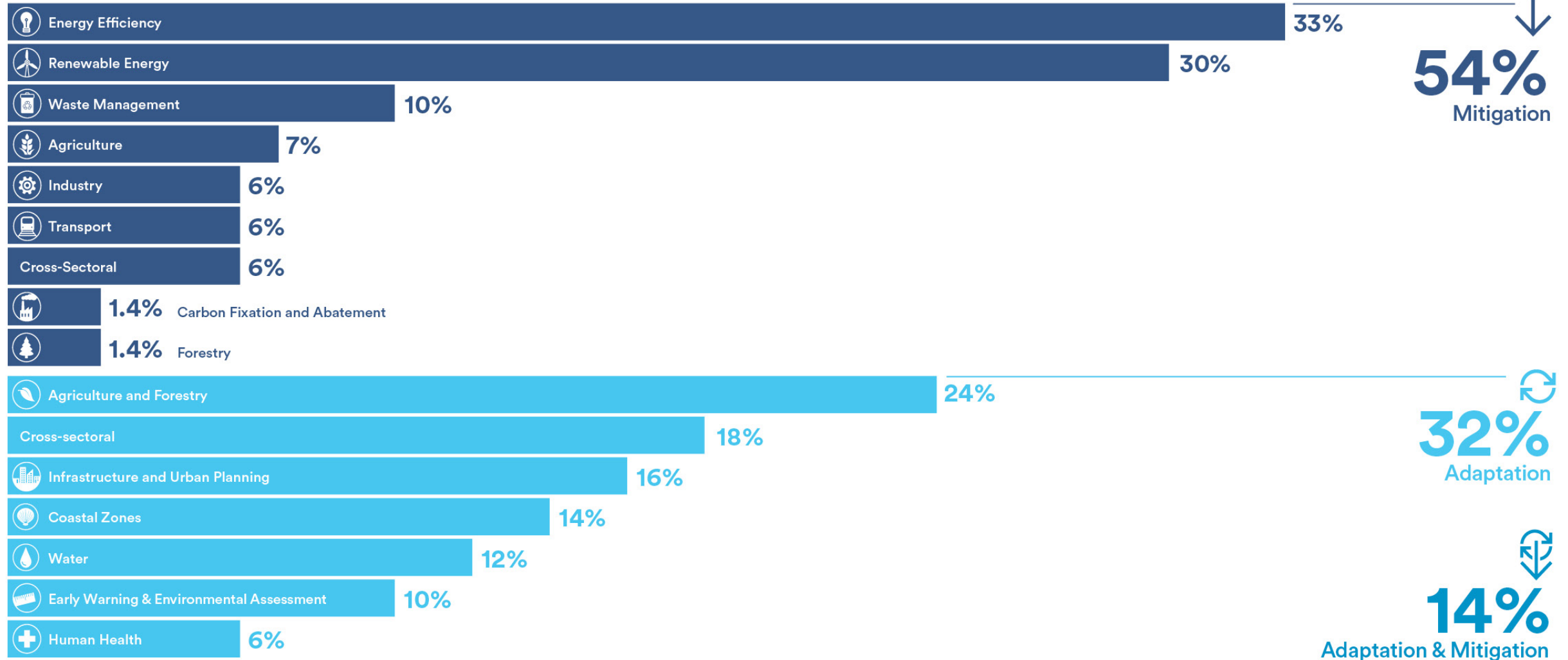
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COUNTRIES

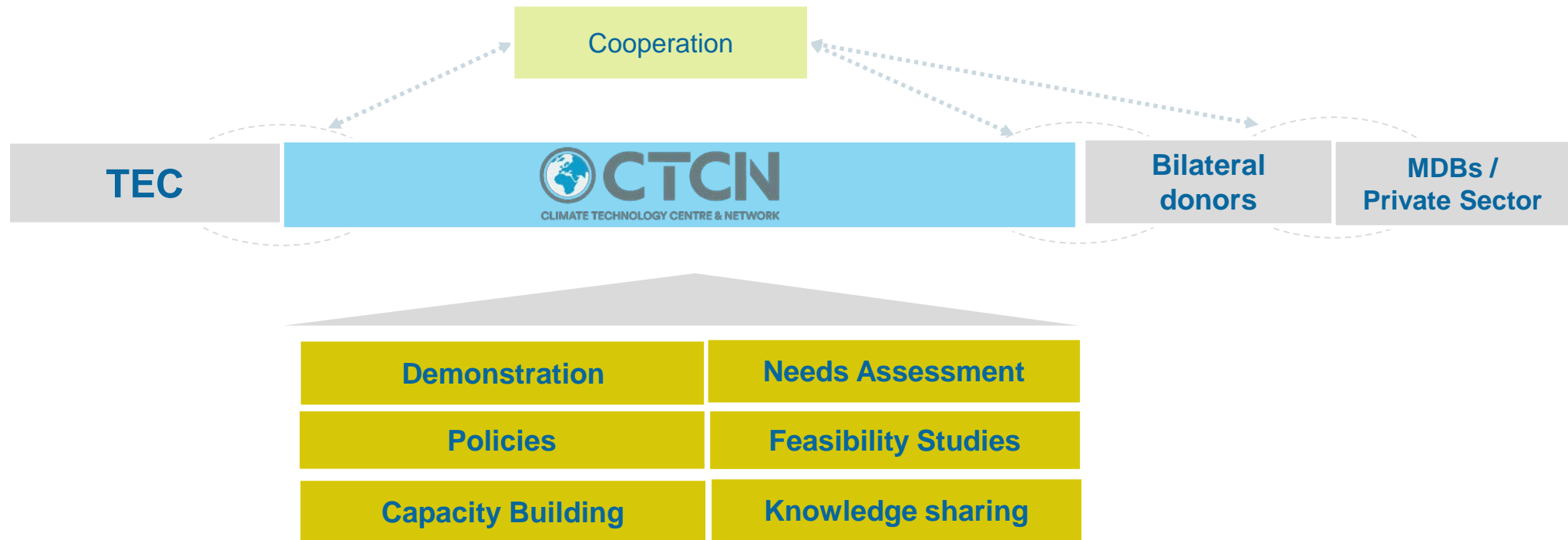
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TAs completed

Distribution of Technical Assistance Requests by Sector



CTCN: Value proposition for scaling up



Rehabilitation of district heating in Bosnia & Herzegovina

- City of Banja Luka's network is the country's 2nd largest and experienced losses in transmission and end-use. Boilers on average 35 years old and lost <60% of heat, while poor insulation led <40% of heat lost in buildings.
- With support of Danfoss, CTCN conducted a city-wide analysis on the network and buildings. Recommendations included the use of biomass boilers, rehabilitation of components, and metering and billing.
- The proposed strategy and financing model attracted funding interest from EBRD and other stakeholders.



Proponent	City of Banja Luka	TA implementor	UNEP
NDE	University of Banja Luka	Budget	90,000 USD

Public building resilience in Antigua & Barbuda

- The country has experienced >10 hurricanes in 20 years. Each brought loss of lives, damages on buildings and ecosystems, and lack of access to electricity.
- CTCN conducted technical assessments of key government buildings, including hospitals, police offices, fire stations and schools, and identified the interventions to make them resilient to climate change and variability, and their costing.
- This support led to the development of a funding proposal to GCF for scaling up the building resilience project.



Proponent	Ministry of Agriculture, Housing, Lands and the Environment	TA implementor	UNEP; Engineering Construction and Management Consulting (St. Lucia)
NDE	Ministry of Agriculture, Housing, Lands and the Environment	Budget	96,000 USD

Technology Needs Assessment in Cook Islands

- The Cook Islands is particularly vulnerable to the impacts of climate change affecting ecosystem services, livelihoods, infrastructure and economic progress.
- The country has not undertaken a full Technology Needs Assessment (TNA) to identify their technology needs, gaps and opportunities
- CTCN support will develop a TNA and technology roadmap, and help develop a GCF Readiness proposal
- The project is co-funded by GCF through a Readiness project implemented by the Direct Access Entity.



Proponent	Office of the Prime Minister	TA implementor	UNEP-DTU Partnership
NDE	Climate Change Cook Islands	Budget	50,000 USD

Flood modelling in Jakarta

- Develop a high-resolution hydrodynamic model for a study area in Jakarta, which is able to produce flood levels under different climate and/or engineering scenarios
- Carry out a socio-cultural survey to capture the views of the local residents on the risks of flooding along with adaptation and mitigation options to alleviate these risks
- Enable local agencies to further develop the model to explore a wider range of scenarios
- Allow local authorities to take the findings from the TA into account when formulating plans to provide a sustainable future for the area (Expert-led workshops)
- A proposal for upscaling this pilot project was developed and USD 5 million was obtained through bilateral funding to apply the similar approach to other polder areas.
- Share lessons learned and facilitate South-South cooperation among Asian cities

Proponent	Jakarta Research Council	TA implementor	UNEP-DHI Partnership
NDE	Ministry of Environment and Forestry	Budget	240,000 USD

Using the Financial Mechanism for scaling up

Green Climate Fund (GCF)

- >20 GCF Readiness proposals have been developed and submitted



Global Environment Facility (GEF)

- 10 TAs were delivered under GEF-5 Medium Size Project
- Possibility to use country (STAR) allocations to follow up mitigation-related TAs



Adaptation Fund (AF)

- Adaptation Fund Innovation Aggregator (micro-grant mechanism) to operate with UNDP
- Jointly working to organize capacity building for adaptation readiness - also with UNFCCC



Most CTCN TAs include the preparation of a concept note for scaling up with GCF/GEF resources

Seeking more collaborations

GCF

- Support on GCF Incubators & Accelerators program
- Workshops and other ways to increase collaborations between NDAs and NDEs
- GCF Readiness 2.0 will be more strategic towards a longer-term and multi-country approach.

MDBs

- Work on the next phase of Regional Climate Technology Centers

Climate-related initiatives

- Exchange pipeline to reduce overlaps and maximize synergies/impacts
- NDC Partnership, GGGI, PAGE, IRENA, etc.

Private sector

- More engagement of SMEs and entrepreneurs in the South
- More engagement of technology providers in TAs
- Let investors recognize CTCN as de-risking facility



Challenges & way forward

- Small-scale interventions have led to policy-oriented work
- Demand-driven model is unique, while facing lack of capacity in LDCs
- Different modality and focal points with Finance Mechanism
- Not yet known to potential beneficiaries

- Improve synergies between UNFCCC Mechanisms
- To be recognized as facility for de-risking, project formulation, feasibility and piloting
- Seek private-sector engagement and support

Join CTCN Network

- **Commercial opportunities:** Pre-qualified access to competitive bidding to provide CTCN technical assistance services to developing countries
- **Connection:** Network with national decision-makers, thought leaders, and other Network members to expand your partnership opportunities and learn emerging practices
- **Visibility:** Increase your global recognition and showcase your success stories through events, reports and tools
- The membership is free of charge.
- Complete application on www.ctc-n.org/network



CTCN

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