CTCN: Progress update and new service offerings

www.ctc-n.org
ctcn@unep.org
Agenda

I. CTCN Mandate and Structure

II. CTCN Services
   1. Technical Assistance
   2. Knowledge sharing
   3. Collaboration and networking
CTCN Structure

**Mission:** Stimulate technology cooperation and enhance the development and transfer of technologies to developing country Parties at their request.

**Oversight:**
- By UNFCCC COP and CTCN Advisory Board

**Operations:**
- Secretariat hosted by UNEP in collaboration with UNIDO
- Consortium of 11 independent, regional and global climate technology leaders
- Global Network of academic, multilateral, NGO and private sector institution
- National Designated Entities (NDEs), national focal points selected by countries
National Designated Entities (NDEs)

116 NDEs have been selected by their countries as of 29 May 2015
Climate Technology Network: 55 Members to date

Through its Network, the CTCN mobilizes policy and technical expertise from academia, civil society, finance and private sectors to deliver technology solutions, capacity building and implementation advice to developing countries.
CTCN Consortium
CTCN Services and Impacts

Service 1: Technical Assistance
- Energy Supply
- Energy Use
- Industry
- Agriculture
- Forestry

Service 2: Knowledge Sharing
- Coastal Zones
- Infrastructure, Transport & Urban Design
- Early Warning & Environmental Assessment

Service 3: Collaboration & Networking
- Water
- Agriculture & Forestry
- Human Health
- Marine & Fisheries

Reduce GHG Emissions
Strengthen Climate Resilience
Specified contribution
Specified contribution
Sustainable Development Goals

CTCN Services and Impacts

United Nations Framework Convention on Climate Change

UNIDO
Since portal launch in Dec. 2014:

- **16,762 users** from 172 countries (**139 developing countries**) have visited the site
- Technology **webinar series** introduced: 14 technology webinars on topics such as agriculture, gender, transportation, water issues, and waste management.
Since 2014, the CTCN has conducted **training workshops** for 170 NDEs and Climate Change Focal Points.

Launched in late 2014: **The Request Incubator Programme for Least Developed Countries**

Provides tailored support in order to:

- Access CTCN technical assistance services
- Coordinate and scale-up national activities related to climate technologies
- Identify funding mechanisms for deploying climate technologies in their countries
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Technical Assistance Status

Distribution by Region

- Africa: 36.1%
- Asia and the Pacific: 36.1%
- Latin America and the Caribbean: 27.8%

Distribution by UNFCCC Objective

- Adaptation: 52.8%
- Mitigation: 33.3%
- Adaptation and mitigation: 13.9%
Technical Assistance Status

Adaptation Requests by Sector

- Early Warning and Environmental Assessment: 8.3%
- Agriculture and forestry: 25%
- Water: 41.7%
- Coastal zones: 8.3%
- Cross-sectoral: 16.7%

Mitigation Requests by Sector

- Energy: 52.6%
- Transport: 10.5%
- Industry: 15.8%
- Forestry: 5.3%
- Waste management: 10.5%
- Cross-sectoral:
Technical Assistance Status

Requests submitted by countries that have conducted TNA already

- Countries with TNA already: 55.6%
- Countries without TNA yet: 36.1%
- Others (multi-country requests): 8.3%
Technical Assistance Status

Distribution of Requests Submitted per Geographical Focus

- Community level: 8.8%
- Sub-national level: 8.8%
- National level: 70.6%
- Multi-country level (in same region): 11.8%
<table>
<thead>
<tr>
<th>Country</th>
<th>Sector</th>
<th>Title</th>
<th>Date of submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chile</td>
<td>Ecosystems</td>
<td>Design of Biodiversity Monitoring Network in the context of Climate Change</td>
<td>February 21, 2014</td>
</tr>
<tr>
<td>Colombia</td>
<td>Monitoring</td>
<td>National Adaptation” Monitoring System</td>
<td>March 18, 2014</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Cross-sectoral</td>
<td>Technology Guidance and Support for Conducting the Technology Needs Assessment (TNA)</td>
<td>September 26, 2014</td>
</tr>
<tr>
<td>Colombia</td>
<td>Energy</td>
<td>Monitoring and Evaluation of national promotion policies for energy efficiency (EE) and renewable energy (RE) against national targets</td>
<td>March 19, 2014</td>
</tr>
<tr>
<td>Colombia</td>
<td>Waste</td>
<td>Development of a Mechanical-Biological Treatment (MBT) pilot project of the Waste NAMA</td>
<td>March 20, 2014</td>
</tr>
<tr>
<td>Multi-country</td>
<td>Cross-sectoral</td>
<td>Green Cooling Africa Initiative</td>
<td>August 8, 2014</td>
</tr>
<tr>
<td>Côte d'Ivoire</td>
<td>Monitoring</td>
<td>Mise en place d’un Système d'Information Environnementale (SIE) capable de guider le choix d’une bonne politique de développement durable et de favoriser une gestion optimale des questions de changements climatiques</td>
<td>August 29, 2014</td>
</tr>
<tr>
<td><strong>Mali</strong></td>
<td>Agriculture</td>
<td>Renforcement de la mise en œuvre d'actions d'adaptation aux changements climatiques et de Développement propre par les communautés rurales au Mali</td>
<td>August 29, 2014</td>
</tr>
<tr>
<td>Afghanistan</td>
<td>Cross-sectoral</td>
<td>Technical support and advise for the identification of technology needs in Afghanistan</td>
<td>May 4, 2014</td>
</tr>
<tr>
<td>Country</td>
<td>Sector</td>
<td>Title</td>
<td>Date of submission</td>
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<tr>
<td>Iran (Islamic Republic of)</td>
<td>Energy</td>
<td>Technology of Photovoltaic Solar Cell Design and Manufacturing</td>
<td>June 3, 2014</td>
</tr>
<tr>
<td>Côte d'Ivoire</td>
<td>Cross-sectoral</td>
<td>Elaboration d'une stratégie visant la réduction des pollutions atmosphériques dans le district autonome d'Abidjan en vue contribuer aux efforts de réduction des effets néfastes des changements climatiques</td>
<td>August 21, 2014</td>
</tr>
<tr>
<td>Bhutan</td>
<td>Transport</td>
<td>Reducing GHG Emissions from Transport by Improving Public Transport Systems through Capacity Building and Use of Technology</td>
<td>October 21, 2014</td>
</tr>
<tr>
<td>Namibia</td>
<td>Water</td>
<td>Transformative water harvesting plan for Namibia</td>
<td>October 6, 2014</td>
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<tr>
<td>Mauritius</td>
<td>Energy</td>
<td>Building Capacity for promoting a greenhouse gas mitigation strategy for the proposed power generation facility</td>
<td>November 17, 2014</td>
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<tr>
<td>Mauritius</td>
<td>Energy</td>
<td>Assessment and identification of technology needs and best practices for reducing the GHG emitting potential of the energy sector</td>
<td>November 17, 2014</td>
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<tr>
<td>Dominican Republic</td>
<td>Disaster/ Early Warning</td>
<td>A Community based early Warning System in Every pocket from Santo Domingo, D. N.</td>
<td>January 19, 2015</td>
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<tr>
<td>Indonesia</td>
<td>Disaster/ Early Warning</td>
<td>Integrated River and Coastal Management toward Sustainable Giant Sea Wall Technology Jakarta</td>
<td>February 5, 2015</td>
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<tr>
<td>Country</td>
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<tr>
<td>Indonesia</td>
<td>Waste</td>
<td>Development of Anaerobic Digester technology for palm Oil Empty Fruit Bunch (EFB) in Indonesia</td>
<td>February 5, 2015</td>
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<tr>
<td>Uruguay</td>
<td>Industry</td>
<td>Replacement of fluorinated refrigerants for end users of refrigeration equipment in the dairy sector</td>
<td>March 13, 2015</td>
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<tr>
<td>Mali</td>
<td>Agriculture</td>
<td>Etude de faisibilite technique et economique pour lever les barierres à l’implantation de technologies de sechage et stockage de gombo, mangue et pommes de terre pour soutenir la securite alimentaire</td>
<td>April 24, 2015</td>
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<tr>
<td>Multi-country</td>
<td>Agriculture</td>
<td>Capacity Building in Ecosystem-based Methods and Green Infrastructure for Sustainable Agriculture Intensification and Disaster Risk Management</td>
<td>March 31, 2015</td>
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<tr>
<td>Senegal</td>
<td>Energy</td>
<td>Development of energy efficiency projects in industries and services</td>
<td>December 31, 2014</td>
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<tr>
<td>Antigua and Barbuda</td>
<td>Cross-sectoral</td>
<td>Technical Assistance for the Implementation of Projects related to the Establishment of a Sustainable Financial Mechanism for Climate Change</td>
<td>February 8, 2015</td>
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<tr>
<td>Senegal</td>
<td>Industry</td>
<td>Green Technology Deployment in Industrial Zones</td>
<td>February 9, 2015</td>
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<tr>
<td>Mozambique</td>
<td>Waste</td>
<td>Feasibility study to use waste as fuel for cement factories</td>
<td>April 14, 2015</td>
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<tr>
<td>Dominican Republic</td>
<td>Energy</td>
<td>Developing a NAMA to leapfrog to advanced energy-efficient lighting technologies</td>
<td>March 30, 2015</td>
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<tr>
<td>Country</td>
<td>Sector</td>
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<tr>
<td><strong>Requests Deemed Eligible but not Prioritized</strong></td>
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<td>Indonesia</td>
<td>Water</td>
<td>Development of the Ciliwung Watershed Management</td>
<td>February 5, 2015</td>
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<tr>
<td>Indonesia</td>
<td>Energy</td>
<td>Development of Ocean Current Watershed Management</td>
<td>February 5, 2015</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Forest</td>
<td>Development of Integrated Carbon Measurements Methodology on Peat lands in Indonesia</td>
<td>February 5, 2015</td>
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<tr>
<td><strong>Requests not Deemed Eligible</strong></td>
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<tr>
<td>Syrian Arab Republic</td>
<td>Cross-sectoral</td>
<td>Technology Needs Assessment for Climate Change in Syria</td>
<td>August 6, 2014</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Agriculture and Fisheries</td>
<td>Propagation of Crop Production Process for Productivity Enhancement</td>
<td>March 18, 2014</td>
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<tr>
<td><strong>Inactive Requests</strong></td>
<td></td>
<td></td>
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<tr>
<td>Multi-country</td>
<td>Cross-sectoral</td>
<td>Consulta para diseno de un Centro Tecnologico de la Alianza Pacifica para el Cambio Climatico</td>
<td>September 9, 2014</td>
</tr>
<tr>
<td>Honduras</td>
<td>Ecosystems</td>
<td>Strengthening local capacities at Cuyamel Omoa Protected Area</td>
<td>April 2, 2014</td>
</tr>
</tbody>
</table>
Request to CTCN to help catalyse private sector financing for adaptation

Mali: Climate resilient agriculture productivity

Challenge/Request:
- Climate variability reducing viability of key crops.
- Distribution and drying technologies can strengthen productive viability.
- But investment is required to pilot and scale up these technologies.

CTCN Response:
1. Strengthen business plan and financial case.
2. Identify and introduce local producers to private investors.
3. Train local producers for sales pitch to private investors.
Request to CTCN to support private sector development

Iran: Photovoltaic Solar Cell Design and Manufacturing

**Challenge/Request:**
- Enable PV module producers to enhance quality and quantity
- Training of local installers
- Use project as research facility for operation and maintenance
- Test laboratories

**CTCN Response:**
- Inventory of needs and requirements for PV pilot line
- Recommendations for design of PV industry in Iran
- Recommendation for a specific pilot plant for PV cell manufacturing
- Financial analysis
Bhutan: Improve public transport systems

**Challenge/Request:**
- Building professionalism in public transport
- Increase share of public transport
- CB for private passenger bus operators
- CB on climate change and use of emission testing equipment

**CTCN Response:**
1. Assistance in development of a full project proposal
2. Capacity building and training by network partners
3. In-country training in conjunction with the CTCN incubator programme
Request to CTCN to help catalyse private sector financing for adaptation

Dominican Republic: Early Warning Communication

Challenge/Request:
• Increased frequency and intensity of extreme storms.
• Mechanisms exist to gain early warning information.
• But the system for communicating it to the public needs improvement.

CTCN Response:
• Help strengthen communications protocols
• Identify new technologies (include mobile phone app)
• Help broker private financing for development and scale up of communication.
Technical Assistance Requests: Eligibility and Priority Criteria

Steps:
1. CTCN Technology Manager acknowledges request {by day 2}
2. Technology Manager assesses {by day 4}
   a) Eligibility
   b) Prioritization and balancing
3. Director reviews recommendation {by day 8}
4. Director communicates decision to NDE {by day 10}

Eligibility criteria approved by AB:
1. A) Benefit to mitigating or adapting to climate change.
   B) The request is in line with national strategies and plans*
2. Enhances endogenous capacities.*
3. Processes in place in requesting country to monitor and evaluate.*

Prioritisation criteria:
1. Promoted endogenous and appropriate technologies and processes.*
2. “Project readiness” and potential for replication or scaling up.
3. Collaboration amongst stakeholders.*
5. Gender equality and empowerment of vulnerable groups.

Balancing criteria:
1. Inter and intra-regional equity
2. Balance adaptation and mitigation
3. Balance spanning the technology cycle

Questions on CTCN Technical Assistance? Contact:
• CTCN Technology Manager on Adaptation
  Jason Spensley: jason.spensley@unep.org
• CTCN Technology Manager on Mitigation
  Harald Diaz-Bone: h.diaz-bone@unido.org

* Footnotes
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Knowledge Management System

Support for NDEs and country stakeholders with information on:

- Adaptation and mitigation technologies
- Technology by sector and country
- Capacity building services
- Linkages to partner organizations’ info

Development is ongoing – we welcome your input at ctcn@unep.org
Climate Knowledge Event

• Emerging alliance of around 50 of the leading global, regional and national knowledge brokers specialising in climate and development information.

• Diverse set of information players, from international organisations to research institutes, NGOs and good practice networks, and covers the full breadth of climate related themes.

• Focus on primarily online initiatives, and those that play an explicit knowledge brokerage role, rather than being simply institutional websites.

CKB Workshop 24-25 June 2015
Copenhagen, Denmark
In 2015, the CTCN is bringing together NDEs, Network members and other key climate technology finance and policy stakeholders for regional meetings to promote collaboration and sharing of best practices.

**ASIA**
April 28 – 30, Bangkok

**AFRICA**
June 22-26, Dakar – Senegal (Francophone Africa)
June 22-26, Arusha – Tanzania (Anglophone Africa)
Back to back with the TNA training workshops.

**EASTER EUROPE AND MIDDLE EAST**
October 1-3, Yerevan, Armenia

**CARIBBEAN SIDS, PACIFIC SIDS and LATIN AMERICA**
Fall 2015, exact dates and places TBD
# CTCN Secondment Programme

## Objectives
- Knowledge exchange among CTCN community members
- Improved collaboration, trust and understanding among partners

## Participants
Key staff from CTCN partner organizations
- Consortium partners, donors, NDEs, and Network members

## Financial implications
- Candidate remains employed and paid by partner institution
- Level of support depends on home country (see table)

*First round of applications currently under review*

<table>
<thead>
<tr>
<th>Annex 1:</th>
<th>Non-Annex 1:</th>
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</thead>
<tbody>
<tr>
<td>Accommodation</td>
<td>Accommodation + flight</td>
</tr>
<tr>
<td>LDC:</td>
<td>LDC:</td>
</tr>
</tbody>
</table>
| Accommodation + flight + 50€ DSA | }
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Delivering Technical Assistance through the Network

Key Guidance
4th Advisory Board meeting highlighted importance of Network for implementation of Technical Assistance
“…ensure fair and open international tendering for the procurement of services in line with the fiduciary and ethical standards of the United Nations”

Procurement via UNIDO
- Fully integrated eProcurement
- 265+ million USD goods and services procured by UNIDO for technical cooperation and operations
Network Status

Network members by region

<table>
<thead>
<tr>
<th>Region</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
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<tr>
<td>North-America</td>
<td>7</td>
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<tr>
<td>Latin America and the Caribbean</td>
<td>6</td>
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<tr>
<td>Asia</td>
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<tr>
<td>Europe</td>
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<td>Oceania</td>
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<tr>
<td>International</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>55</strong></td>
</tr>
</tbody>
</table>

Network distribution by UNFCCC country designation

- **53%** Annex I
- **31%** Non-Annex I
- **16%** International

Network by type of institution

- 27% Research and Academic Institution
- 15% Intergovernmental organization
- 15% Partnership or initiative
- 11% Non-governmental organization
- 9% Public sector organization
- 16% Private sector organization
- 7% Not for Profit Organization
Network Expertise by Sector and Service Type

Mitigation sectors

- Energy: 44
- Transport: 18
- Industry: 24
- Agriculture: 14
- Forestry: 13
- Waste: 21

Adaptation sectors

- Early warning/Disaster: 15
- Agriculture/Fisheries: 12
- Forestry: 7
- Water resources: 20
- Coastal Zones/Oceans: 11
- Terrestrial ecosystems: 11
- Human health: 8
- Infrastructure/Human: 13
- Tourism: 3
- Businesses: 4
- Education: 4

Service types

- Technology development and transfer: 38
- Collaboration in innovation: 19
- Investments: 11
- Capacity building: 47
- Knowledge sharing: 45
- Policy and planning: 43
The Climate Technology Centre gratefully acknowledges the financial support of the European Union and the governments of Canada, Denmark, Germany, Japan, Norway, Switzerland, and the United States.

For more information, please visit:

http://ctc-n.org