United Nations
Economic Commission for Africa

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Africa Regional Dialogue on Advancing Integrated Solutions for Sustainable Development: Climate–Water–Energy–Food Nexus Solutions
The Third Edition of the Dialogue between the OIBC-4, the Regional Collaborative Platform
Session II.1: Cases from North Africa and the Mediterranean Basin

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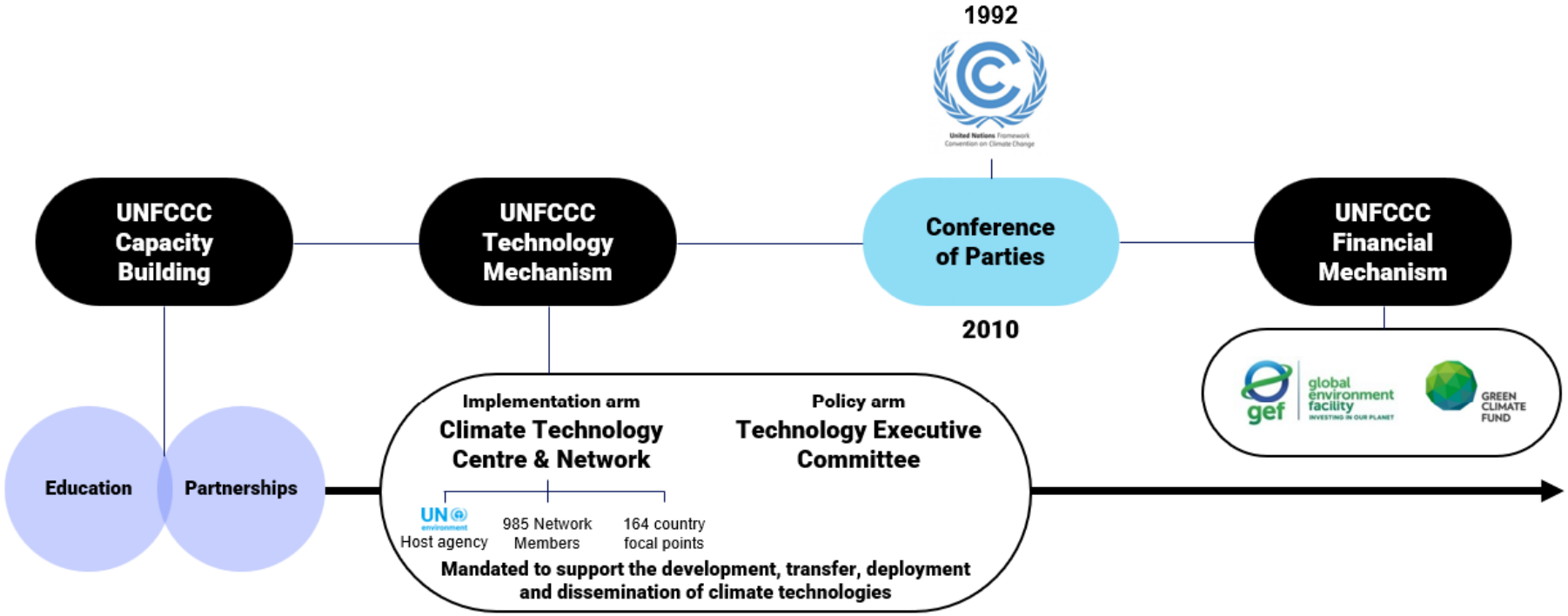
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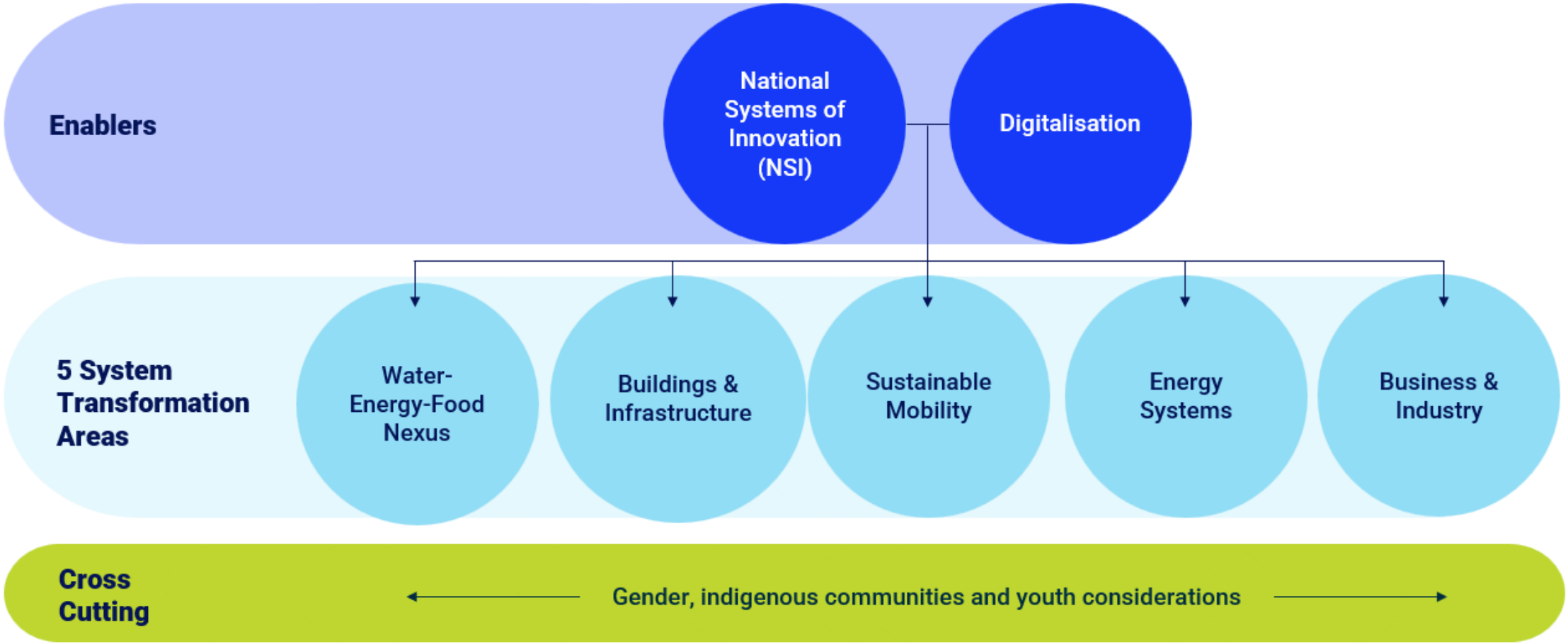
CTCN's Role: Enabling WEFE Nexus Technology Transfer Across Africa

From the convention, the Conference of Parties (COP) introduced three pillars of climate change in 2010.

The operating/implementing arms were established in 2012-13.



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- Countries request technical assistance through NDEs.
- CTCN then mobilizes its Network to deliver technology solutions, capacity building, and policy guidance at no cost to the recipient country.
- Maximum budget of 300 K per TA



CTCN's Role: Enabling WEFE Nexus Technology Transfer Across Africa

- Initiate pilot projects and case studies demonstrating WEFE nexus benefits at local levels (e.g., renewable energy integration, Nature-based Solutions [NbS])
- Implement innovative financing models for WEFE nexus projects
- Launch a WEFE nexus youth innovation challenge
- Develop user-friendly **WEFE nexus modelling tools for policymakers**
- Establish a regional WEFE nexus research network

Demonstrated Success Cases in Sub- Saharan and North Africa

- **In DRC, Senegal, Guinea and Togo, The CTCN provided a technical assistance to** diagnose the feasibility of an agrivoltaics technology pilot

- In Tunisia CTCN provided technical assistance to help **SONEDE manage supply and demand for drinking water by introducing smart metering and billing**, and plan renewable energy integration, including 78 MW of solar PV potential and 5 MW of micro-hydropower.

- In Kaduna state in Northern Nigeria the **CTCN Piloted a small-scale solar-powered hydroponics system** as a strategic solution aimed at addressing the interrelated challenges of climate change, insecurity, and food security in the region.

- CTCN has recently kicked off a Technical Assistance project in the **Gambia on Introducing solar powered Phase Change Materials (PCM) into the Gambia's cold chain** to address post-harvest loss and other waste across the primary sector

Thank You