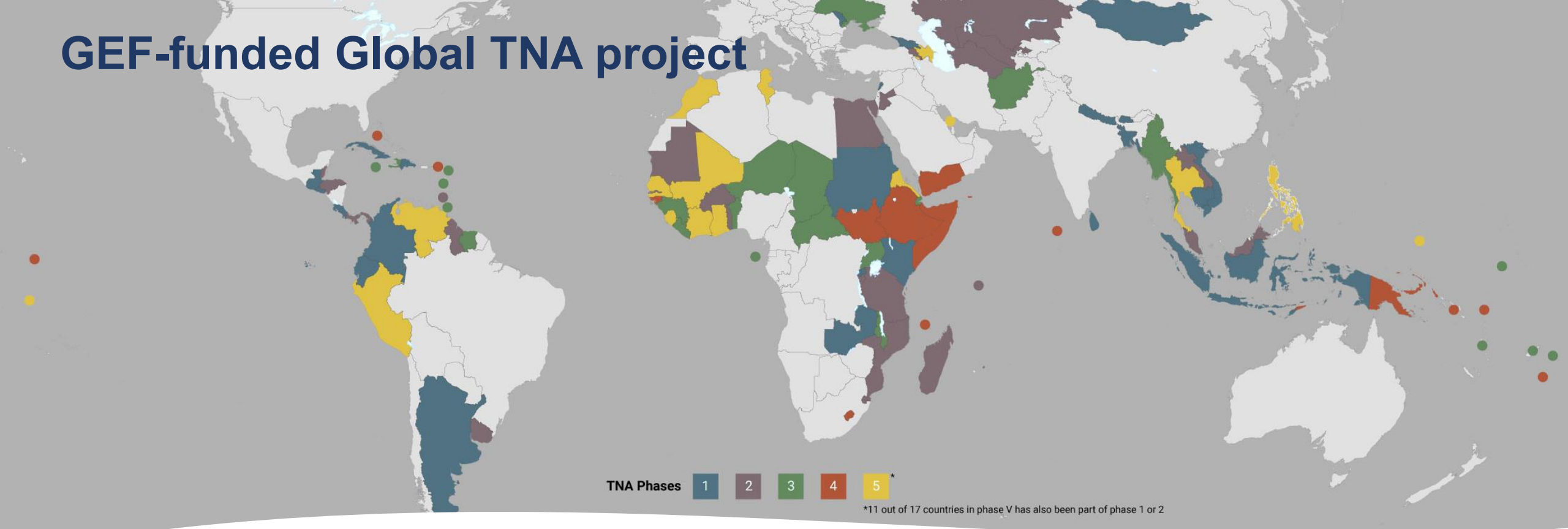




Update on the GEF-funded Global Technology Needs Assessment (TNA) Project

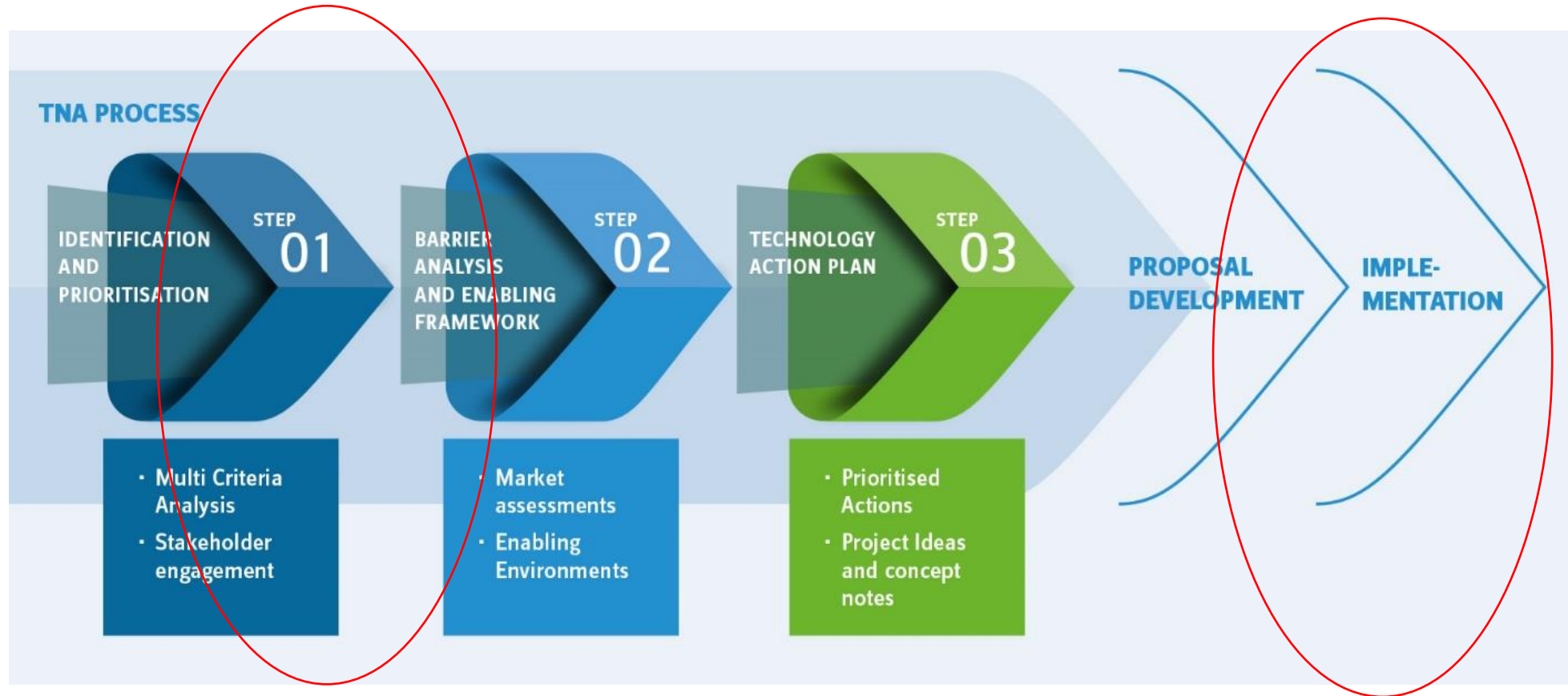
TEC32, April 2026,
Sara Traerup,
sara.traerup@un.org

GEF-funded Global TNA project



	Year	No. of countries	GEF project financing, USD
Phase I	2009 – 2013	36	8,200,000
Phase II	2014 – 2018	22	6,100,000
Phase III	2018 – 2023	23	6,210,000
Phase IV	2020 – 2025	17	4,590,000
Phase V	2025 – 2027	17	5,100,000
		115	30,200,000

Status



TNA Phase V, 2025 – 2027

17 countries

Azerbaijan, Cook Islands, Côte d'Ivoire, Bahrain, Eritrea, Federal States of Micronesia, Ghana, Mali, Mongolia, Morocco, Peru, Philippines, Senegal, Sierra Leone, Thailand, Tunisia and Venezuela

TNA Phase IV, 2020 – 2025

Completed July 2025

Terminal Evaluation Jan - August 2026

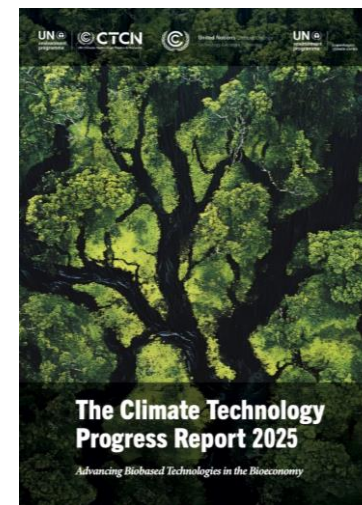
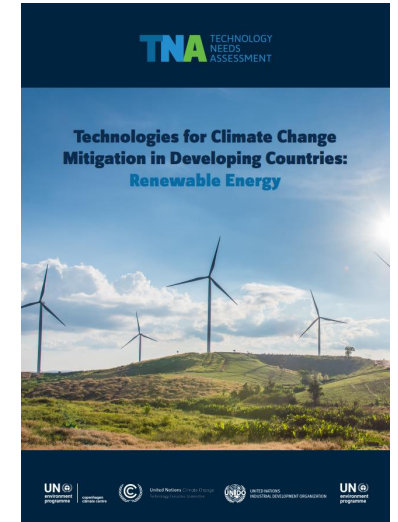
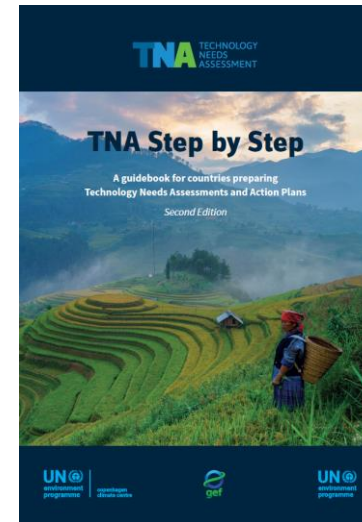
TNA Guidance and other Related Publications

TNA Guidance

- **Updated Step-by-Step guidebook**, Dec 2024 <https://tech-action.unepccc.org/publications/39082/>
- **Renewable Energy Sector guidebook**, June 2025 <https://tech-action.unepccc.org/publications/39082/>
TEC product, led by UNFCCC Secretariat with UNIDO & UNEP-CCC
- **Guidance for reporting on technology development and transfer in BTRs, under preparation**
UNEP-CCC lead, collaboration with the GEF-funded Capacity Building Initiative for Transparency (CBIT) team

Other

- **TNA Stories 2025**, Dec 2025 <https://tech-action.unepccc.org/publications/stories-from-the-technology-needs-assessments-2025/>
- **Climate Technology Progress Report 2025 – advancing biobased technologies**, Dec 2025 <https://unepccc.org/publications/the-climate-technology-progress-report-2025/>
Collaboration with TEC and CTCN



Renewable Energy Sector guidebook - dissemination

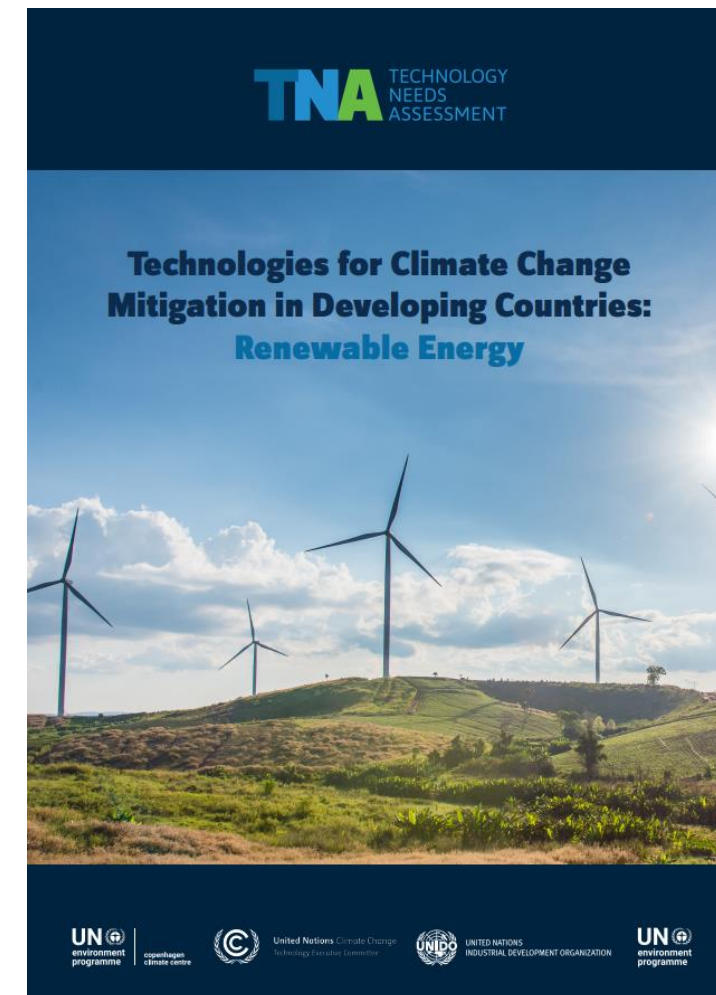
Disseminated to countries participating in TNA Phase V through

- Regional capacity building workshops held in Asia & the Pacific, Latin America, Anglophone and Francophone Africa
- National Inception Workshops (16 countries)

Available on the TNA website

Disseminated through events at

- COP30, Brazil, November 2025
- International Vienna Energy and Climate Forum (IVECF) 2026, Austria, April 2026



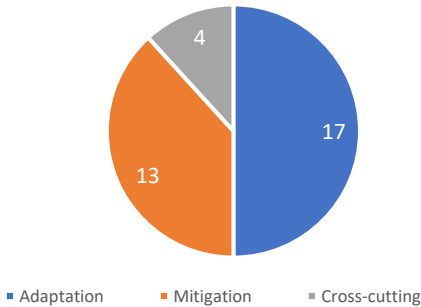
Implementation tracking

Approved projects informed by the national TNAs/TAPs developed under the Global TNA project in USD				
	Funding	Co-Finance	Total Financing (funding + co-finance)	Number of Projects
GCF (incl. Grants and Loans)*	776,251,144	1,848,118,120	2,624,369,264	24
GEF	24,364,235	295,920,258	320,284,493	8
AF	10,707,000		10,707,000	2
Total in USD	811,322,379	2,144,038,378	2,955,360,757	34

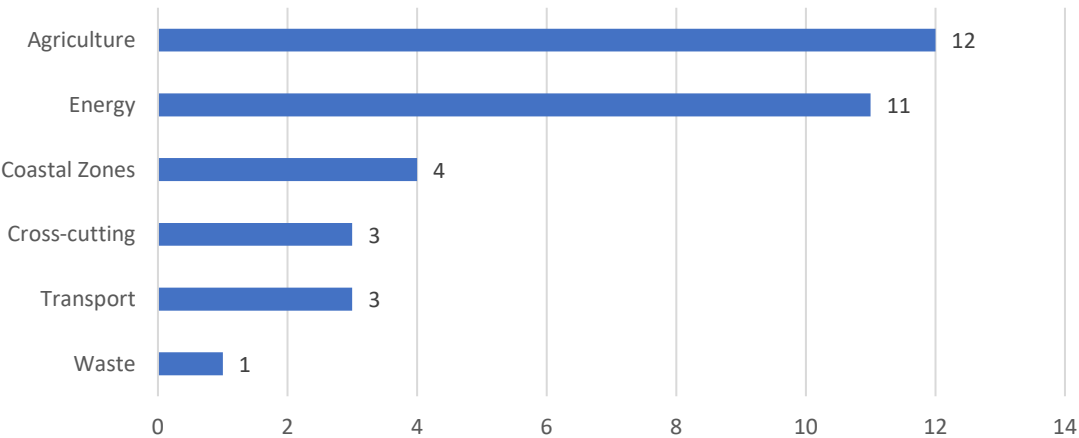
*Includes Readiness and implementation

Tracking note [LINK](#)

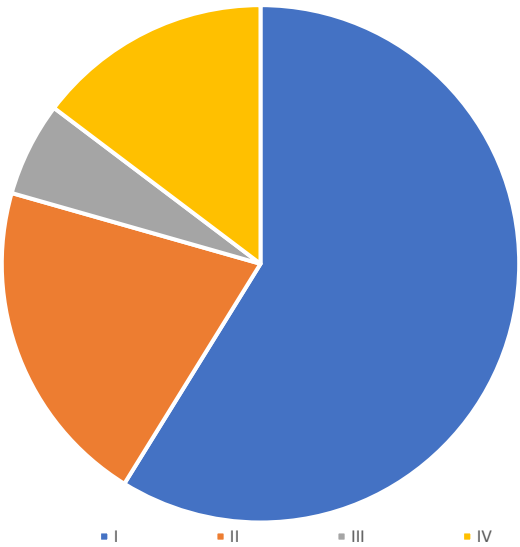
Type of Climate Action Response



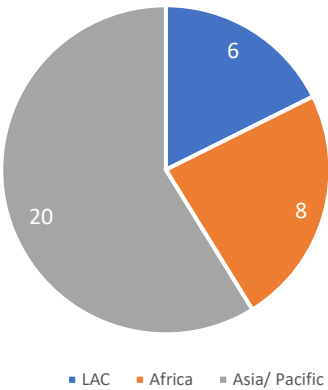
Projects per sector

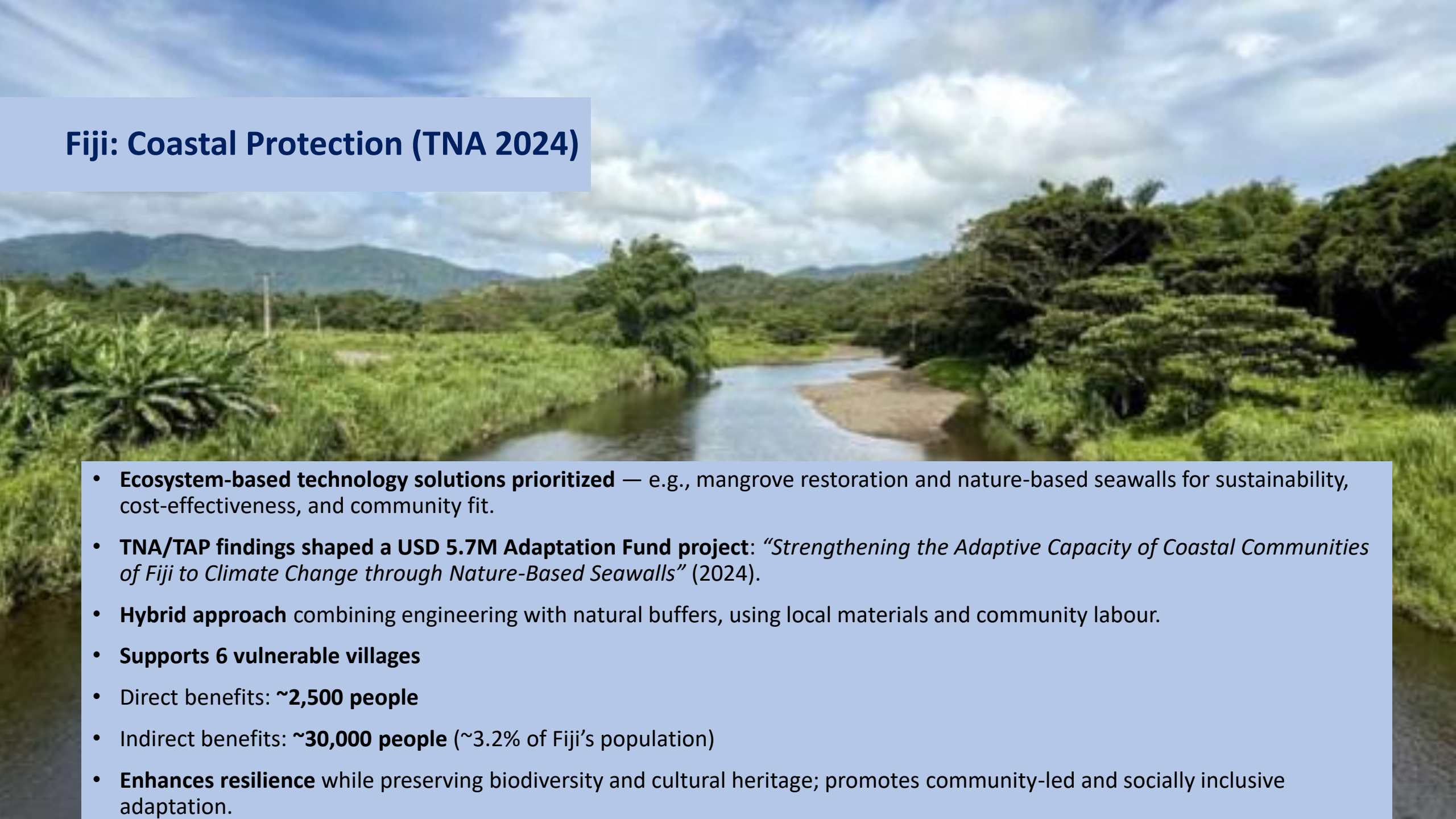


Project distribution, TNA Phases



Projects per Region





Fiji: Coastal Protection (TNA 2024)

- **Ecosystem-based technology solutions prioritized** — e.g., mangrove restoration and nature-based seawalls for sustainability, cost-effectiveness, and community fit.
- **TNA/TAP findings shaped a USD 5.7M Adaptation Fund project:** *“Strengthening the Adaptive Capacity of Coastal Communities of Fiji to Climate Change through Nature-Based Seawalls”* (2024).
- **Hybrid approach** combining engineering with natural buffers, using local materials and community labour.
- **Supports 6 vulnerable villages**
- Direct benefits: **~2,500 people**
- Indirect benefits: **~30,000 people** (~3.2% of Fiji’s population)
- **Enhances resilience** while preserving biodiversity and cultural heritage; promotes community-led and socially inclusive adaptation.

TNA Phase VI, GEF 9

Considerations

- Overall framing: NDC update and implementation
- Updated concept, which will allow countries to choose from various options for an enhanced flexible approach (see also last slide in the deck, it includes more details and budget estimates):
 - **Standard TNA/TAP**
 - **Subnational TNA/TAP**
 - **Sectoral deep dive TNA/TAP**
 - **Business Model Development & Enhanced Private Sector Engagement for TNA/TAP implementation**

Next steps

- UNEP/UNEP-CCC inform countries (GEF OFP, UNFCCC FP, NDEs) of the opportunity to join a TNA Phase VI
- Organize sub-regional virtual meetings with countries to discuss and collect feedback on proposed concept
- Countries are invited to submit Letters of Endorsement
- UNEP/UNEP-CCC prepare Project Identification Form (PIF) for submission ahead of the 70th GEF Council Meeting scheduled for December 2026

Countries

- 10 countries eligible to join for the standard TNA through Global set aside (Angola, Bolivia, Congo DRC, Cabo Verde, Barbados, Palau, Saint Lucia, Saint Vincent & Grenadines, Singapore, Marshall Islands)
- Other countries are invited to join utilising their STAR allocations

Collaboration with the Technology Mechanism under the Global TNA Project

TEC

- TEC inputs to the TNA step-by-step guidebook (Dec 2024)
- TNA gap assessment (November 2024)
- Energy sector guidebook (April 2025)
- TNA Stories and exhibitions
- Side events and workshops
- Climate Technology Progress Report series
- TNA Steering Committee (Stig Svenningsen + **one vacant seat, NAI**)
- UNEP-CCC provides regular updates on the Global TNA Project to the TEC

CTCN

- Inputs to the update of the TNA step-by-step guidebook
- Facilitation of technical assistance requests building on TNAs/TAPs
- Workshops
- Side events
- Climate Technology Progress Report series
- TNA Steering Committee
- Knowledge products

Thank you

Find more information on TNAs at:

www.tech-action.unepccc.org and
<http://unfccc.int/ttclear/tna>



Get in contact: Sara Trærup, Head of Technology, UNEP-CCC sara.traerup@un.org

Additional information: initial outline and tentative budget information for TNA Phase VI

Standard Technology Needs Assessment including Technology Action Plans	Subnational Technology Needs Assessment including Technology Action Plans	TNA Sectoral Deep Dive		Business Model Development & Private Sector Engagement for TNA/TAP implementation
<i>A nationally led and internationally recognized process for identifying, prioritizing, and planning climate technologies and their implementation, building on UNEP's Technology Needs Assessment (TNA) methodology that has been applied by more than 100 countries.</i> Key Components Technology Needs Assessment (TNA) • Sector prioritization, baseline mapping, and stakeholder engagement. • Technology Longlist + MCA scoring to identify priority technologies. • TNA report for 3–4 sectors. Barrier & Enabling Framework Analysis • Assessment of economic, technical, policy, regulatory, institutional, social, and other barriers. • Recommendations to strengthen enabling conditions. • BAEF report for 3–4 sectors. Technology Action Plans (TAPs) & Concept Notes • Actions, roles, budgets, and timelines for priority technologies. • Identification of funding pathways and investment partners. • TAPs for 6 – 8 technologies • Two concept notes aligned with international climate finance formats. Budget: USD 340,000	<i>A localized process to identify and prioritize climate technologies for a province, state, or district. Translates national climate ambitions into actionable, investment-ready local projects.</i> Key Components Subnational TNA report • Sector scoping, stakeholder mapping, assessment of existing technologies and identification of technology gaps. • Multi-criteria analysis to rank technologies by impact, cost, and other subnational criteria. • Sub-national TNA report for 3+4 sectors at the sub-national level Subnational Barrier & Enabling Framework Analysis • Assessment of context specific barriers and enabling conditions for priority technologies at the local level. • Sub-national BAEF report for 3–4 sectors at the sub-national level Subnational Technology Action Plans & Concept Notes • Actions, roles, budgets, and timelines for priority technologies • Identification of funding pathways and investment partners. • Sub-national TAPs for 6+8 technologies • Development of investment concept notes for climate funds and national finance institutions. Budget: USD 340,000	<i>An in-depth assessment of a priority sector, identified in a previous or ongoing TNA, to generate targeted insights that strengthen a country's Technology Action Plans for the specific sector. Builds a comprehensive picture of sectoral innovation systems, technology options, and enabling conditions for implementation.</i> Key Components Sector Technology Landscape • Mapping of existing systems, actors, and institutional roles. • Analysis of technology maturity, readiness, and local feasibility. Priority Technologies, barriers and Enabling Conditions • Identification of priority technology options and capability needs. • Assessment of barriers, risks, and emerging opportunities. Sectoral Implementation Report • Policy, regulatory and other enabling requirements across national–local levels. • Initial investment needs and financing considerations, including implications for business models, procurement systems, and potential funding instruments. • Aligned with and provides information for NDC Investment Plans Budget: USD 240,000		<i>Supports development of bankable, scalable business models for priority climate technologies, identified through a previous or ongoing TNA, with continuous private-sector engagement to align solutions with market needs.</i> Key Components Private-Sector Insights • Mapping private sector actors for 4-6 priority technologies • Mapping technology readiness and adoption levels. • Engagement with firms, SMEs, startups, and technology providers to identify opportunities and capability gaps. Business Model Design & Market Assessment • Structured definition of value propositions, delivery models, and operational needs. • Pre-feasibility and market assessments, including adoption barriers, for 4-6 technologies Financing Pathways & Investment Structuring • Identification of suitable financing instruments and partners. • Support to structure investment-ready business model proposals for climate funds and investors. Budget: USD 240,000