Country	**Suriname**
Request ID#	**2025000036**
Title	Advancing Climate Innovation and Resilience in Suriname
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Proponent	Rafiq Ilahi Ministry of Economic Affairs, Entrepreneurship & Technological Innovation Permanent Secretary Department of Technological Innovation Havenlaan 1 Paramaribo, Suriname Email: rafiq.ilahI@ezoti.gov.sr Ritesh Sardjoe Ministry of Spatial Planning and Environment Permanent Secretary Department of Environment Prins Hendrikstraat 22 Paramaribo, Suriname Email: ritesh.sardjoe@rom.gov.sr

Summary of the CTCN technical assistance

The summary should provide a brief description of the problem (barrier to climate technology deployment) and how the technical assistance will address it (brief summary of outputs and activities). Please also briefly indicate national actors involved and the anticipated timeline. Please note this summary will be used for public communication purposes so it is important that it is well written. (maximum 1250 characters including spaces)

Suriname faces significant barriers to deploying climate technologies, including limited research capacity, fragmented coordination among institutions, and gaps in digital and technical infrastructure. These challenges hinder the country's ability to innovate, scale climate-resilient solutions, and effectively monitor forests, agriculture, and carbon emissions.

This technical assistance will strengthen Suriname's innovation ecosystem by assessing national needs, improving collaboration between government, academia, private sector, and civil society, and developing recommendations for targeted policies to encourage climate technology development. Further, it will build national skills through new training programmes and a train-the-trainers approach, building national capacities, and sharing successful local and international examples to support wider adoption of climate-resilient practices.
Key national stakeholders include relevant ministries, universities, research institutions, the private sector, and non-governmental organizations. The technical assistance is expected to be implemented in 12 months.

Agreement:

(If possible, please use electronic signatures in Microsoft Word file format)

National Designated Entity to the UNFCCC Technology Mechanism
Name: Rafiq Ilahi
Title: Permanent Secretary

Date: 5 May 2026

Signature: 

Proponent (signature of the Proponent is optional)
Name:
Title:

Date:

Signature:

UNFCCC Climate Technology Centre and Network (CTCN)
Name: Ariesta Ningrum
Title: Director, CTCN

Date: 07.05.2026

Signature: 

1. Background and context

Please provide a brief description of the background and context for the CTCN Response Plan. Please include national and sectoral information using recognized and publicly available sources. (maximum 2500 characters including spaces).

Suriname faces increasing challenges related to climate change, including impacts on forests, agriculture, energy security, and low-lying coastal areas. While the country has strengths in natural resources and high forest cover, it has limited technological innovation capacity in climate-related sectors, including SMEs. Strengthening its ability to develop, adopt, and deploy climate technologies is essential for meeting its mitigation and adaptation objectives, as reflected in its Nationally Determined Contribution (NDC) and national development vision.

Supporting SMEs is crucial for Suriname's climate efforts. Their agility and innovation can drive the development and implementation of practical, local climate solutions. This includes initiatives like renewable energy systems tailored to specific communities, sustainable farming practices that protect biodiversity, and eco-tourism ventures that provide economic opportunities while preserving natural resources. Fostering a thriving SME ecosystem that actively promotes youth participation and gender equality is crucial for Suriname to effectively implement the strategies outlined in its National Adaptation Plan (NAP). While climate change considerations have not yet been fully integrated into the planning and setup of Suriname's innovation system, this presents a significant and timely opportunity. With the right technical support, the innovation ecosystem can be strategically designed to address the pressing challenges posed by climate change.

The Department of Technological Innovation (DTI), from the Ministry of Economic Affairs Entrepreneurship and Technological Innovation, has taken significant steps to address innovation challenges in Suriname by establishing the Innovation Network Suriname, a foundation dedicated to fostering technological progress and collaboration. Recognizing the importance of uniting stakeholders, the foundation and the Ministry have signed a Memorandum of Understanding (MOU) with Anton de Kom University of Suriname. This agreement aims to consolidate all innovation initiatives under a single collaborative network. The network will act as a multidisciplinary team tasked with addressing innovation challenges, creating specialized curricula, and organizing short programs to accelerate innovation and strengthen innovation systems throughout the country.

A key initiative of the foundation is the establishment of a state-of-the-art fabrication laboratory at Anton de Kom University. This facility will serve as a hub for innovation and creativity, providing resources and support for students, researchers, and entrepreneurs. It will complement a network of smaller fabrication laboratories (FabLabs) across Suriname, enhancing access to tools and technologies critical for innovation. To support this initiative, DTI has secured USD 250,000 in funding through the Suriname Competitiveness and Sector Diversification Program.

In addition to these efforts, the Department is actively developing a trajectory to establish incubators that will nurture startups and innovative enterprises. These incubators will provide mentorship, resources, and an enabling environment to help new ventures thrive, further contributing to Suriname's transition to a knowledge-driven economy.

This Technical Assistance (TA) aims to address technological barriers, improve national innovation systems, build technical capacities, and expand access to global tools, knowledge and partnerships that support climate-resilient development.

2. Problem statement

Founded on the national and sectoral context as detailed in the section above, please include a brief problem statement clarifying the main problems and barriers for climate change mitigation and/or adaptation in terms of climate technologies that the CTCN Response Plan will address and overcome. (maximum 1250 characters including spaces).

Suriname faces an innovation gap hindering the adoption of essential climate technologies. This gap is rooted in a risk-averse economic culture dominated by resource extraction and a limited focus on advanced education in critical fields like environmental technology and computer engineering. Knowledge transfer to smaller firms is also scarce. Critically, these challenges are compounded by limited opportunities for youth engagement and a lack of focus on gender equality within the innovation and climate action landscape. Addressing these gaps is essential to ensure inclusive and effective climate action.

Suriname's innovation ecosystem remains under-developed and fragmented. Key barriers include:

- Limited R&D capacity for climate technologies and skilled personnel.
- Weak regulatory and policy barriers. Complex regulations and insufficient incentives for technology adoption.
- Lack of a network to consolidate innovation efforts and strengthen coordination between government, academia, private sector, and NGOs.
- Gaps in digital and technical infrastructure for monitoring, data collection, and technology deployment
- Insufficient access to finance, SMEs struggle to secure funding for climate-resilient technologies, advanced tools such as satellite imagery and drones
- Limited awareness, knowledge, and training programs
- Weak mechanisms for documenting and sharing best practices.

The TA will strengthen institutions, develop human capacity, improve the enabling environment for innovation, and create long-term partnerships to support technology transfer.

3. Logical Framework for the CTCN Technical Assistance:

(Guidance: Please note that multiple activities lead to one Output, and multiple Outputs lead to one Outcome. There can be several Outputs, but only one Outcome description capturing the CTCN technical assistance. Deliverables are the products or services to be delivered to the NDE/Proponent/CTCN based on the Activities and the Outputs.)

	Month														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
***Objective**: Please provide a one sentence description of the Objective of the technical assistance. The objective of the CTCN technical assistance reflects what the assistance aims to produce and impact.* Establishing the Innovation Network to strengthen Suriname's capacity to develop, adopt, and deploy climate technologies that support adaptation efforts by enhancing the innovation ecosystem, building human and institutional capacity, and expanding access to global knowledge and tools.															
Outcome: *(Guidance: The Outcome articulates changes in the institutional and behavioural capacities for climate technology development or deployment. Activities and Outputs contribute to the Outcome but the Outcome is not within the direct control of the CTCN activities). (maximum 400 characters including spaces)* A strengthened and coordinated national innovation ecosystem for climate technology development, enabling enhanced research and development (R&D), and increased national capacity to deploy climate-resilient technologies.															
Mandatory Output: Project management *All implementers must undertake the following project management activities at the beginning of, during and at the end of the CTCN technical assistance.*															
Activity A: Beginning of implementation A detailed work plan of all activities, deliveries, outputs, deadlines and responsible persons/organisations and detailed budget to implement the Response Plan. The detailed work plan and budget must be based directly on this Response Plan; Based on the work plan, a monitoring and evaluation (M&E) plan with specific, measurable, achievable, relevant, and time-bound indicators used to monitor and evaluate the timeliness and appropriateness of the implementation. The monitoring and evaluation plan should apply selected indicators from the Closure and Data Collection report template and enable the lead implementer to complete the CTCN Closure and Data collection report at the end of the assignment (please refer to															

item iv below and section 14 in the Response Plan). This M&E plan also includes a CTCN Impact Description formulated in the beginning of the technical assistance which will be revised in the Closure and Data Collection report once the technical assistance is fully delivered (templates will be provided). Other additional monitoring and evaluation indicators or templates may be required depending on the donor that is funding the technical assistance. Furthermore, a gender evaluation and gender action plan (GAP) will be prepared and followed throughout the technical assistance (a template will be provided).[1]															
Activity B: Implementation A project steering committee will be formed, consisting of the implementing team (international and local consultants), the NDE, the project proponent(s), beneficiary(ies), and CTCN. The objective of this steering committee is for the implementing partner to report on progress, and to guide the implementation of the project at a high level. It is recommended that this steering committee is virtually meeting on a monthly basis.															
Activity C: End of implementation A Closure and Data Collection report completed at the end of the technical assistance (a template will be provided). Potential project-end communication and dissemination activities (such as knowledge sharing webinar, dialogue with financial institutions, press release) may be conducted in collaboration with the CTCN Secretariat, subject to appropriateness.															
Mandatory deliverables: Deliverable A: Detailed work plan; M&E plan; gender assessment and gender action plan. Deliverable B: Project Steering Committee meeting reports.	X X			 X				 X					 X		

[1] Additional information is available under Section 10 of the response plan.

Deliverable C: Closure and Data Collection report; press release, webinar, dialogue with financial institutions.											X				
Output 1: Stakeholder Mapping and establishing a Project Steering Committee															
Activity 1.1: Identification of stakeholders and inception meeting Conduct a stakeholder mapping and establish a stakeholder working group/project steering committee who will be engaged throughout the TA implementation phase. Identify relevant stakeholders among governmental institutions at the national and sub-national levels, in the climate innovation space, including the Department of Technological Innovation (DTI), the Ministry of Economic Affairs, Entrepreneurship and Technological Innovation, Anton de Kom University, SMEs, and financial institutions among others. This will ensure all relevant stakeholders are involved in the design and development of the Innovation Network Suriname. Conduct an inception meeting with the Project Steering Committee, to present the goals,milestones, anticipated deliverables, and the role of the PSC.	X														
Activity 1.2: Validation of prioritized solutions Conduct a comprehensive needs assessment identifying preferred solutions in Suriname's climate innovation ecosystem (governance, academia, private sector, finance, data systems). The objective of this activity is to obtain consensus on ideal solutions addressing previously identified gaps on fields critical to climate resilience, such as environmental technology, data science, regulatory and policy barriers, research and development (R&D) capacity, and the knowledge gap of entrepreneurs and smaller businesses. Independent semi-structured interview (or a similar form of consultation) with each key stakeholder group is suggested to gather preferred solutions by each stakeholder. Qualitative analyses on top 2-3 solutions for each stakeholder to be followed.		X	X												
Activity 1.3: Needs Assessment for prioritized sector innovators in Suriname			X	X											

This activity will undertake a needs assessment from various climate innovators and targeted audience for the Innovation Network Suriname. Identify the strengths and weaknesses of Suriname's efforts to develop new climate-friendly technologies. Organize a multi-stakeholder workshop, previous coordination with the NDE, to align strategies among government agencies, academic institutions, private sector, and NGOs regarding technological innovation and climate change. The workshop will enable experience sharing, understand each actor's priorities, and identify the most feasible solution that may work for all. This is aimed at assisting identified stakeholders with the familiarization of preferred climate technologies, to enhance long-term coordination and cooperation, to identify gaps in the technical capacity for operation and maintenance of the preferred techs, and baseline data collection. Common methods utilized for that process included: Focus groups with experts and stakeholders including market mapping and problem trees; and/or logical problem analyses activities, consensus building workshops including collective voting; ideation workshops on technical capacity building programs.														
Deliverables Output 1: D1.1. Stakeholders mapping report D1.2. Project Steering Committee terms of reference D1.3. Needs Assessment Report on Suriname's Innovation Ecosystem. D1.4. Workshop report.															
Output2: Governance for Climate Technology Innovation															
Activity 2.1: Baseline assessment Assess existing technical infrastructure for climate technology development and data systems. Including laboratories, data systems, monitoring tools to identify gaps. Identify additional local research institutions, private sector actors, NGOs, and government institutions involved in adaptation to climate change. The activity includes reviewing current regulations and identifying gaps and bottlenecks that prevent the adoption of new climate technologies.				X	X										

Activity 2.2: Policy recommendations and governance Prepare policy advisory notes and governance strategy to promote innovation-friendly regulation and technology adoption. Develop short-, mid-, and long-term policy recommendations to support investment, and knowledge sharing, and the establishment of the Innovation Network, including defined governance and mission. Develop a guide on how the government, businesses, small companies, and universities can work together effectively to address climate change. Design the governance structure by describing the roles of the National Designated Entity (NDE), and the host institution for the Innovation Network, and the Steering Committee. Develop a 5 year strategy that outlines how the Innovation Network will facilitate climate technology transfer and collaborative R&D. In addition, the activity includes establishing criteria for local and international partners to join the Innovation Network, ensuring a mix of academic, financial, and technical expertise.					X			X			X			
Activity 2.3: Defining functions and skills required for the Innovation Network Define the functions and skills required for Suriname's Innovation Network to ensure functionality and capability of moving a climate technology from a concept to a field application. Describe what activities will do the Innovation Network on a day-to-day basis, including and not limited to: a) technology scouting, b) knowledge transfer between academic researchers and policy-makers to ensure data is used in national planning, c) advisory services, d) incubation and advocacy, by supporting local startups and advocating for policy changes that remove barriers to green technology imports. Once functions are set, define the specific skills, expertise and experience needed. Assess the existing institutions like the Anton de Kom University and the Ministry of Spatial Planning and Environment. Determine the gap between Suriname's current capacity and the ideal state defined previously and determine the training needs.					X	X								
Activity 2.4: Frameworks for collaboration and partnerships							X			X		X		

Design a collaboration framework for knowledge transfer between corporations, SMEs, academic institutions, and government entities. Facilitate partnerships for access to satellite imagery, drone technologies, and advanced data platforms.														
Deliverables Output 2: D2.1. Infrastructure Assessment Report D2.2. Policy Advisory Notes and governance guide to support innovation, financing, and technology deployment. D2.3. Innovation Network functions and skills required. D2.4. Collaboration Framework for Government–Private Sector–Academia Partnerships.														
Output 3: Dissemination of best practices and knowledge sharing														
Activity 3.1: Success stories Identify successful international and local examples/stories of climate technology implementation (renewables, sustainable agriculture, forest management), and lessons learned regarding the integration of innovative climate solutions concepts into public planning: • Existing national and local legal frameworks • Management and governance models • Infrastructure and technological capabilities Provide at least 10 case studies or success stories identified and documented.						X	X							
Activity 3.2: Knowledge products Develop communication materials (brochures, videos, briefs) to share lessons learned. The knowledge products should follow a tiered approach to reach different audiences: • Technical briefs for policy makers, scientists with data-driven results, policy recommendations, social return on investment (SROI) for climate technology. • Infographic brochures for private sector and investors, including visual summaries of the innovation ecosystem, market opportunities, and network benefits. • Short videos for the general public and donors with high-impact visuals showing the climate technology in action within the Surinamese landscape.									X	X			

• Toolkits and manuals for local practitioners. "How-to" guides for maintaining or replicating the climate technology locally.														
Deliverables Output 3: D3.1. Report on success stories and case studies D3.2.1. Knowledge products (technical briefs, toolkits and manuals) D3.2.2. Communication materials (brochures, audiovisual content, short videos)														
Output 4: Capacity Building														
Activity 4.1: Development of the Program Co-develop specialized syllabus with local academic institutions in: • climate technologies • data science for environmental analysis							X	X						
Activity 4.2: Training of Trainers Conduct a Training of Trainers (ToT) programme targeting universities, vocational institutes, and professional associations.									X	X				
Activity 4.3: Training sessions Deliver sector-specific training sessions for policymakers, SMEs, and practitioners. Develop learning documentation, including workshop reports, training evaluations, and knowledge products. Organize a case-study sharing program, including webinars, round tables, and info-sessions.										X	X			
Deliverables Output 4: D4.1. Training modules and program D4.2. Train-the-Trainers program materials and certification D4.3. Learning documentation and workshop reports														

4. Resources required and itemized budget:

Please provide an indicative overview of the resources required and itemized budget required to implement the CTCN technical assistance, including for M&E-related activities, using the table below. Important to note that minimum 5% of the budget should explicitly target gender specific activities related to the technical assistance (please see section 10 for further information on gender). A maximum of 20% of the budget can be allocated to procurement (e.g. infrastructure purchase, technology piloting), Once the Response Plan is completed, a Response Implementation partner(s) will be selected by the Climate Technology Centre (CTC). A detailed activity-based budget for the CTCN assistance will be finalized by the CTCN and selected Implementer.

Activities and Outputs	**Input: Human Resources** *(Title, role, estimated number of days)*	**Input: Travel**[2] *(Purpose, national vs. international, number of days)*	**Inputs: Meetings/events**[3] *(Meeting title, number of participants, number of days)*	**Input: Equipment/Material** *(Item, purpose, buy/rent, quantity)*	**Estimated cost** *Please accumulate the costing (USD) at Activity and Output level and provide an estimated costing range for each activity and the total Response Plan*	
					Minimum	**Maximum**
Mandatory Output: Project Management					*7,000*	*8,000*
Mandatory Activities: A: Beginning of implementation B: Implementation C : End of implementation	Please allocate 1-5 working days for each of the mandatory reports under Activities A-C					
Output 1: Stakeholder Mapping and establishing a Project Steering Committee					*12,000*	*14,000*
Output 2:					*22,000*	*23,000*

[2] All budget values related to Daily Subsistence Allowance or logistical support for local participants shall remain as indicated.
[3] All budget values related to the organization of meetings and events shall remain as indicated.

Governance for Climate Technology Innovation						
Output 3: Dissemination of best practices and knowledge sharing					*14,000*	*16,000*
Output 4: Capacity Building					*35,000*	*38,000*
Estimated range of costing for the entire Response Plan					*90,000*	*99,000*

5. Profile and experience of experts

Based on the required Human Resources identified in section 4 (Resources required and itemized budget) please provide a description of the required profile of all involved experts for the implementation of the CTCN Response Plan. Please note that an expert with experience in gender mainstreaming is required.

The CTCN Gender and Climate Technology Expert Roster can help you identify a suitable expert:
https://www.ctc-n.org/networking-and-collaboration/gender-and-climate-technology-expert-roster

Experts required	Brief description of required profile
Please use the same titles for all experts as applied in section 4.	*Please provide a short description of expertise and experience needed (education, sectors of expertise, years of experience, country experience, language requirements, etc.).*
Team Leader, Climate Innovation Expert (International expert)	• Advanced degree (Master's or PhD) in climate change, environmental sciences, sustainable development, engineering, or related field • Minimum 10 years of experience in climate technology development, innovation ecosystems, or climate policy • Demonstrated experience managing multi-stakeholder climate or technology transfer programmes (>USD 200,000) • Proven leadership in developing national strategies, innovation frameworks, or climate technology roadmaps • Experience working with developing countries, preferably in the Caribbean or small forested countries • Strong understanding of UNFCCC processes, NDC implementation, and technology transfer mechanisms.
Innovation and policy expert (International expert)	• Postgraduate degree in public policy, innovation management, economics, or similar • Minimum 7 years of experience in designing innovation ecosystems or technology acceleration programmes • Experience in policy analysis, regulatory frameworks, and institutional strengthening • Experience conducting needs assessments and multi-stakeholder consultations • Knowledge of SME innovation, R&D systems, and public–private collaboration models.

Digital infrastructure and data system expert
(International expert)
	• Degree in information systems, remote sensing, ICT for development, geospatial technologies, or related engineering field
	• At least 7 years of experience in climate data systems, environmental monitoring, remote sensing, or digital infrastructure design
	• Proven expertise with:
	  o GIS platforms
	  o Satellite imagery
	  o Drone-based monitoring
	  o Data collection systems for agriculture, forests, or carbon tracking
	• Experience working with national ministries or environmental agencies will be valued.

Capacity building expert	• Advanced degree in education, instructional design, environmental technology, renewable energy, or data

(International expert)	science • Minimum 5 years of experience in designing and delivering training for technical subjects • Strong background in adult learning methodologies and curriculum design • Experience developing university-level or vocational training materials • Experience conducting train-the-trainer programmes.
Knowledge and communications and gender expert (Local expert)	• Bachelor's or Master's degree in communications, knowledge management, environmental communications, or gender studies and sociology • At least 5 years of experience producing communication materials for climate, environment, or development sectors • Experience preparing brochures, videos, awareness materials, case studies • Strong writing and visual storytelling skills • Expertise in gender equity work, especially in innovation or climate sectors • Experience with gender-responsive budgeting and inclusive programme design.
Climate technology expert (Local expert)	• Bachelor's or Master's degree relevant to climate, agriculture, forestry, or public policy • At least 3–5 years of experience in climate change, environmental management, or community engagement • Strong knowledge of national institutions, Indigenous and local community contexts, and Suriname's development priorities • Ability to coordinate stakeholder engagement and support data collection.
Stakeholder engagement and governance expert (Local expert)	• Bachelor's or Master's degree relevant to public policy, development, political science, or related • At least 5-7 years in multi-stakeholder engagement, policy, or innovation systems • Familiarity with Suriname institutions, public-private collaboration.

6. Intended contribution to impact over time

Please provide a brief description of the intended contribution to impact over time of the outcome and outputs provided by this technical assistance on resilience to climate change and/or carbon abatement. To the extent possible, please quantify the intended impact contribution, for example by indicated estimated number of people potentially impacted over time, GDP contribution of the focus sector, carbon emissions by the focus sector, etc. This intended contribution to impact is what will happen if the objective (as articulated in section 3) is met. Please ensure relevant complementarity with text in sections 7 to 12. (maximum 1250 characters including spaces)

While climate change considerations are not yet fully integrated into Suriname's innovation system, this Technical Assistance presents a significant opportunity. With the right technical support, the innovation ecosystem can be strategically designed to address climate change challenges. Integrating climate technology and innovation into existing initiatives is crucial. This technical assistance can also specifically address the challenges faced by women and SMEs.

The incorporation of the Innovation center and the establishment of a strong network will foster youth engagement in technological innovation. By creating more opportunities for youth involvement, we can cultivate a new generation of innovators who can drive the development and implementation of cutting-edge climate solutions.

7. Relevance to NDCs and other national priorities

Please identify relevance and contribution from the technical assistance to the Nationally Intended Contributions (NDC) and other relevant national prioritized efforts (TNAs, TAPs, NAPs, NAMAs, etc.). (maximum 2500 characters including spaces)

Suriname, with its rich biodiversity, can combat climate change by leveraging innovation. This includes utilizing advanced technologies like remote sensing and AI for sustainable forestry, developing renewable energy solutions, promoting climate-smart agriculture, and protecting coastal ecosystems through mangrove restoration and sustainable fisheries. Investing in capacity building will empower local communities to implement these innovative solutions, ensuring a more sustainable and resilient future (2020). page 22.

The Technology Needs Assessment (TNA) aimed to overcome barriers to technology adoption and develop action plans to facilitate their transfer, adoption, and diffusion, ultimately enhancing Suriname's capacity to address climate change challenges (2019). Chapter 5, page 25.

National Adaptation Plan (NAP): Building an investment-friendly environment for technology transfer and technology driven adaptation solutions including through building national innovation capacity for technology absorption, adaptation, and commercialization is a strategic objective (6.4) of the plan (Section 6.6, page 92) (2020).

National Development Plan 2022-2026: Suriname’s National Development Plan prioritizes innovation and climate action. It emphasizes the importance of developing a skilled workforce through initiatives like involving the business community in the Training Authority. Recognizing the urgency of climate change, the plan focuses on green growth, phasing out toxic substances in mining, implementing water laws, and promoting community-based biodiversity conservation. These measures reflect a commitment to sustainable development and building a resilient future

for Suriname. (page 11).

Suriname Green Development Strategy:
Suriname's Green Development Strategy (GDS) is a plan to achieve sustainable development by conserving the country's natural resources and biodiversity. The GDS is being developed by the Ministry of Spatial Planning and Environment (ROM).
(In draft now).

8. Linkages to relevant parallel on-going activities:

Please identify relevant previous and ongoing public and private sector initiatives, projects or programmes that the CTCN assistance will specifically build on and contribute to. To the extent possible, please add practical and operational details on the linkages between existing activities and the CTCN assistance. (maximum 2500 characters including spaces)

The Department of Technological Innovation (DTI), from the Ministry of Economic Affairs Entrepreneurship and Technological Innovation, has taken significant steps to address innovation challenges in Suriname by establishing the Innovation Network Suriname, a foundation dedicated to fostering technological progress and collaboration.

Key initiatives include:

- Establishing the Innovation Network Suriname: This network, formed through a collaboration between DTI, the Ministry of Economic Affairs, Entrepreneurship, and Technological Innovation, and Anton de Kom University, aims to consolidate innovation efforts, address challenges, and strengthen the innovation system.
- Creating a state-of-the-art fabrication laboratory: This facility, supported by DTI funding, will provide resources for students, researchers, and entrepreneurs, complementing a network of smaller FabLabs across Suriname.
- Developing incubators: These incubators will nurture startups and innovative enterprises, fostering a knowledge-driven economy.

9. Anticipated follow up activities after this technical assistance is completed:

Please describe the expected future use of the outputs and deliveries produced by this technical assistance, after the CTCN implementation is completed, towards contributing to the anticipated impacts over time articulated in section 6. For example, what organizations or stakeholders will use the outputs of the technical assistance after it is completed, for what purpose, at what scale and scope the outputs and deliveries will be applied, when and what will be the next steps undertaken, etc. Please also describe the role of the NDE and project proponent(s) in post-implementation monitoring and reporting. (maximum 2500 characters including spaces)

Recognizing the importance of uniting stakeholders, the foundation and the Ministry have signed a Memorandum of Understanding (MOU) with Anton de Kom University of Suriname. This agreement aims to consolidate all innovation initiatives under a single collaborative network. The network will act as a multidisciplinary team tasked with addressing innovation challenges, creating specialized curricula, and organizing short programs to accelerate innovation and strengthen innovation systems throughout the country.

A key initiative of the foundation is the establishment of a state-of-the-art fabrication laboratory at Anton de Kom University. This facility will serve as a hub for innovation and creativity, providing resources and support for students, researchers, and entrepreneurs. It will complement a network of smaller fabrication laboratories (FabLabs) across Suriname, enhancing access to tools and technologies critical for innovation.
To support this initiative, DTI has secured USD 250,000 in funding through the Suriname Competitiveness and Sector Diversification Program.

In addition to these efforts, the Department is actively developing a trajectory to establish incubators that will nurture startups and innovative enterprises. These incubators will provide mentorship, resources, and an enabling environment to help new ventures thrive, further contributing to Suriname's transition to a knowledge-driven economy.

10. Gender and co-benefits:

Each technical assistance must integrate gender mainstreaming activities and lead to gender and other co-benefits. At least 5% of the technical assistance budget need to be allocated to gender mainstreaming activities. A suitable expert can be identified through the CTCN Gender and Climate Technology Expert Roster: https://www.ctc-n.org/networking-and-collaboration/gender-and-climate-technology-expert-roster

Gender benefits embedded in the implementation and as a result of activities:	*A gender mainstreaming analysis is mandatory to include for all technical assistances. A gender expert will be assigned to carry out an assessment and evaluation regarding gender mainstreaming and will develop the gender assessment action plan (GAAP) (a template will be provided). The GAAP will be followed throughout the implementation of the TA.* *The GAAP will include but not limited to the following components:* • *Analysis of gender disparities (assess the situation of gender disparities in the context of the project, including socio-economic, cultural and institutional factors. Identify areas where inequalities exist, etc.).* • *A monitoring tool to ensure 5 percent of the TA budget is allocated and used on gender mainstreaming activities.* • *Data collection (collect and analyze gender-disaggregated data to understand the specific needs and preferences of different genders).* • *Adaptive and gender-responsive design (evaluate the project design to ensure that it takes into account the different roles, responsibilities and interests of all genders. Analyze how the*

	project can empower women and all other marginalized gender groups while promoting gender equality). • *Gender and innovation ecosystem (evaluate how the proposed technologies could promote women as entrepreneurs).* • *Gender budgeting (budget allocation to guide gender mainstreaming activities. Also ensure that gender-specific needs are adequately funded).* *In addition, please describe all support to gender aspects and women's equality embedded into the Response Plan (please include a reference to the actual gender mainstreaming-related activities and outputs as described in section 3).* The report "Profiling-Caribbean-Women-Entrepreneurs.pdf" says it's hard for women to start and grow businesses in the Caribbean. Things like getting loans, protecting their ideas, and paying taxes can be difficult. Even though things are getting better, women still face challenges. Reports from organizations like the World Bank and the United Nations highlight Suriname's progress in gender equality. For example, Suriname has a relatively high female labor force participation rate and women hold significant positions in government. This project aims to build upon this progress by creating equal opportunities for all, including women and youth, through the strategic implementation of quotas.
Other co-benefits embedded in the implementation and intended as result of the activities:	*Please describe any other co-benefits embedded in the implementation and as a result of the CTCN technical assistance (please include a reference to the actual activities and outputs as described in section 3).* The report also says that helping women entrepreneurs needs to be done right. Programs should focus on what women actually need, especially those who want to start businesses in technology and other fast-growing areas. When women are successful in business, it helps the whole economy. They bring new ideas and ways of thinking, which makes businesses stronger. It's important to give women the chance to learn about science, technology, engineering, and math (STEM) and to work in these fields. This will help build a stronger workforce and protect the environment.

11. Main in-country stakeholders in implementation of the technical assistance activities:

Using the table below, please list and describe the role of in-country stakeholders, participants and beneficiaries who will be involved in or directly consulted during implementation of the assistance.

In country stakeholder	Role in implementation of the technical assistance
Ministry of Economic Affairs, Entrepreneurship & Technological Innovation The Department of Technological Innovation (DTI)	The Innovation Network Suriname Foundation is a working arm of the Ministry.
Ministry of Spatial Planning and the Environment	They are responsible for Suriname's environmental policies. Provide technical inputs.
Ministry of Education	This stakeholder is responsible for curricula. Alignment and streamlining with existing curricula is key. Participate in consultations.
NATIN	Higher Educational Institute with students and part of the Innovation network. Participate in consultations.
ADEK	Higher Educational Institute with students and part of the Innovation Network Suriname. Participate in consultations, work collaboratively on one or more of the outputs.
UNASAT	Technical and Vocational Educational Institute with students and part of the Innovation Network Suriname. Participate in consultations, work collaboratively on one or more of the outputs.
IOTLAB	Private Lab, part of Innovation Network Suriname. Participate in consultations, work collaboratively on one or more of the outputs.
ZAPLAB	Private Lab, part of Innovation Network Suriname. Participate in consultations, work collaboratively on one or more of the outputs.
Codettes	Private Lab, part of Innovation Network Suriname. Participate in consultations, work collaboratively on one or more of the outputs.

12. SDG Contributions:

*Instructions: Please complete the grey section below for **a maximum of three SDGs** that will be advanced through this TA. A complete list of SDGs and their targets is available here: https://sustainabledevelopment.un.org/partnership/register/.*

Goal	Sustainable Development Goal	Direct contribution from CTCN TA (1 sentence for top 1-3 SDGs)
1	End poverty in all its forms everywhere	
2	End hunger, achieve food security and improved nutrition, and promote sustainable agriculture	
3	Ensure healthy lives and promote well-being for all at all ages	
4	Ensure inclusive and equitable quality education and promote life-long learning opportunities for all	The TA will develop a report on local and international success stories, and knowledge products for dissemination.
5	Achieve gender equality and empower all women and girls	
6	Ensure availability and sustainable management of water and	

	sanitation for all	
7	Ensure access to affordable, reliable, sustainable, and modern energy for all (consider adding targets for 7)	
	7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services	
	7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix	
	7.3 - By 2030, double the global rate of improvement in energy efficiency	
	7.a - By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	
	7.b - By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support	
8	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	
9	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	The TA directly strengthens Suriname's national innovation ecosystem by identifying gaps, creating an Innovation Network, and improving the enabling environment for climate technology development and transfer.
10	Reduce inequality within and among countries	
11	Make cities and human settlements inclusive, safe, resilient and sustainable	
12	Ensure sustainable consumption and production patterns	
13	Take urgent action to combat climate change and its impacts	*All TAs should indicate relevance to Goal 13 and at least one target below (13.1 to 13.b).*
	13.1 - Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	
	13.2 - Integrate climate change measures into national policies, strategies and planning	The TA enhances national capacity to develop, deploy and scale climate technologies. In addition, it supports implementation of Suriname's NDC by improving knowledge, and technology readiness. Finally provides policy recommendations that accelerate climate technology adoption and resilience planning.
	13.3 - Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	
	13.a - Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly $100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible	
	13.b - Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities	
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	

13. Classification of technical assistance:

Please indicate primary type of technical assistance. Optional: If desired, indicate secondary type of technical assistance.

Please tick off the relevant boxes below	*Primary*	*Secondary*
☐ 1. Decision-making tools and/or information provision	X	☐
☐ 2. Sectoral roadmaps and strategies	☐	☐
☐ 3. Recommendations for law, policy and regulations	☐	X
☐ 4. Financing facilitation	☐	☐
☐ 5. Private sector engagement and market creation	☐	X
☐ 6. Research and development of technologies	☐	☐
☐ 7. Feasibility of technology options	☐	☐
☐ 8. Piloting and deployment of technologies in local conditions	☐	☐
☐ 9. Technology identification and prioritisation	☐	☐

Please note that all CTCN technical assistance contributes to strengthening the capacity of in country actors.

14. Monitoring and Evaluation process

Upon contracting of the implementing partners to implement this Response Plan, the lead implementer will produce a monitoring and evaluation plan for the technical assistance. The monitoring and evaluation plan must include specific, measurable, achievable, relevant, and time-bound indicators that will be used to monitor and evaluate the timeliness and appropriateness of the implementation. The CTCN Technology Manager responsible for the technical assistance will monitor the timeliness and appropriateness of the Response Plan implementation. Upon completion of all activities and outputs, evaluation forms will be completed by the (i) NDE about overall satisfaction level with the technical assistance service provided; and (ii) the Lead Implementer about the knowledge and learning gained through delivery of technical assistance. Furthermore, the NDE together with the project proponent(s) will complete a periodic post-implementation form to track the impact of the activities beyond the technical assistance end date.

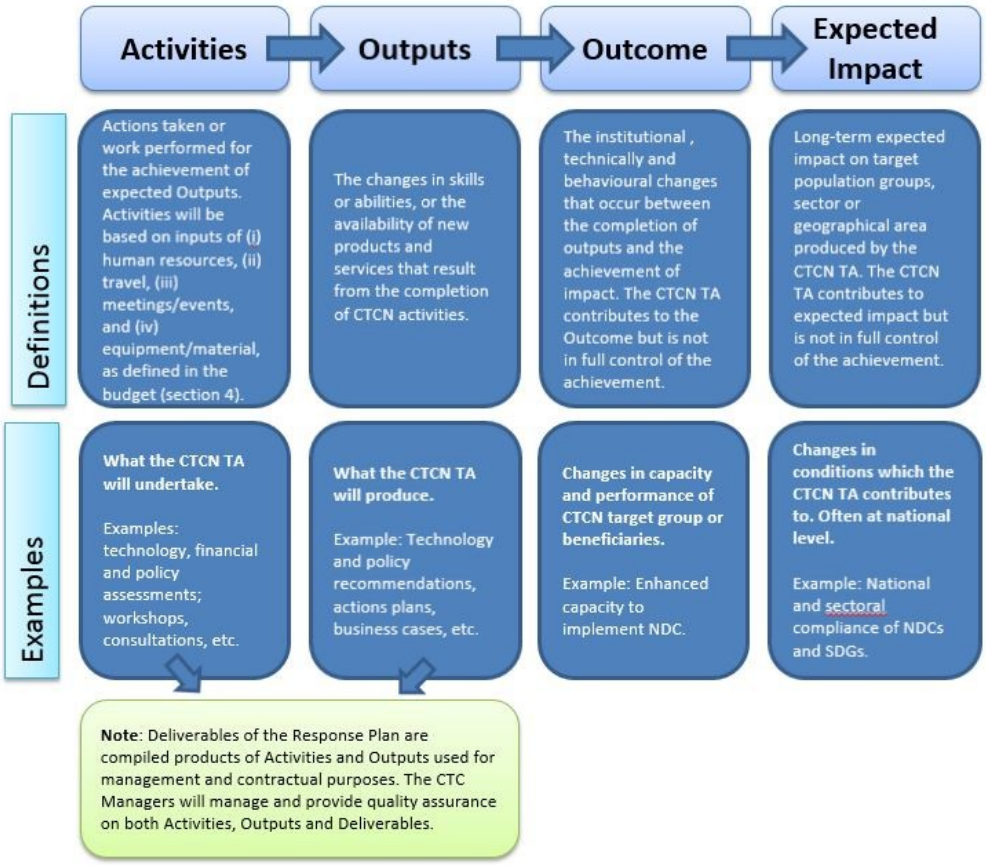
Annex 1: Guidance note for designing a Response Plan (to be deleted when submitting the Response Plan)

1. Objective of the Response Plan

The Response Plan is developed by CTCN specialists in response to a country request for technical assistance. It constitutes the Terms of Reference of the CTCN technical assistance that will be provided to the country and it provides the formulation of and subsequent basis for the monitoring and evaluation of the Response Plan implementation, as well as its expected outcomes and anticipated impacts.

2. Results chain and Logical Framework Approach to be defined in the CTCN Response Plan

The result chain is the causal sequence that stipulates the necessary flow of actions and processes to achieve desired objectives and results – beginning with inputs, moving through activities and outputs, and culminating in individual outcomes. The outcome will contribute to the desired impact in the society. The Logical Framework Approach is an analytical process used to support objectives-oriented project planning and management. It provides a set of pre-defined concepts which are used as part of an iterative process to aid structured and systematic analysis and management of the CTCN technical assistance.



3. Process for designing the Response Plan

The Response Planning process should be completed over a period of up to 60 working days (12 weeks). Indicative steps and related timelines are laid out below:

4. Design Considerations

In order to maximize the impact of the technical assistance provided by the CTCN and provide an effective M&E process, the Response Plan should integrate as much as possible the considerations below:

Climate Technology focus: The Response Plan should have a clear focus on climate technologies, and identify activities that enable the identification, development, deployment or diffusion of one or several specific technologies (including equipment, techniques, knowledge and skills).

Barrier removal / Problem solving: The activities should contribute to address the specific problem statement identified in the Request. The barriers identified should be those hampering the identification, development, deployment or diffusion of one or several climate technologies or climate actions. Therefore, it may be necessary to limit the CTCN Response Plan to a set of activities for technical assistance commonly agreed with the NDE (and Proponent when needed) compared to the original request submitted. The CTCN will liaise with NDEs and Proponent in case the scope of the technical assistance deviates from the original request.

Use of the CTCN assistance by stakeholders: The Response Plan should identify clearly how the products of the CTCN assistance will be used in the short term once support is delivered, by who and when, to ensure it will lead to specific impacts in the country. The activities should engage the stakeholders that will use the concrete results of the assistance to deploy the technologies, including from the private sector, the public sector, research institutions, etc.

Within the scope of CTCN resources: The cost of the technical assistance provided by the CTCN cannot exceed USD 250,000 per Response Plan. Therefore, it may be necessary to prioritize activities and limit the CTCN Response Plan to a set of priority activities commonly agreed with the Proponent and the NDE to remain under this value. Under section 4 of the Response Plan template, an indicative activity based budget should be presented. The proposed budget is indicative and should present an estimated costing range per activity, output as well as a total costing range for the delivery of the

Response Plan. Once the Response Plan is finalised and published for tendering, interested parties will provide competitive offer against the indicative budget.

CTCN activities and outputs should be linkable to monitoring and evaluation indicators: All proposed activities and outputs must be linkable to monitoring and evaluation indicators that are specific, measurable, achievable, relevant, and time-bound. The monitoring and evaluation process and corresponding indicators will be developed by the Lead Implementer as part of the work plan and will allow the CTCN technology Manager to monitor the timeliness and appropriateness of the implementation.

Synergies with existing efforts: The Response Plan should focus on activities that are not already being fully supported or that are in the process of being fully supported by another national, regional or international organization. Synergies and complementarity also require that the CTCN assistance is not duplicating past activities. It is possible in the Response Plan to indicate co-financing from the government, the Proponent or another stakeholder, that will maximize the effectiveness of the CTCN assistance.

Gender mainstreaming: The CTCN mission is to build or strengthen developing countries' capacities to identify technology needs, to facilitate the preparation and implementation of technology projects and strategies taking into account gender considerations. The Response Plan must therefore describe how gender considerations will be included and monitored within the proposed activities, and any gender co-benefits that will be gained as a result of implementing the CTCN technical assistance. For that purpose, a Gender Assessment and Action Plan (GAAP) template has been designed to be followed by the implementation partner.