

Technical Assistance Closure Report Template

Objective of the technical assistance (TA) Closure Report:

- To communicate publicly in one document a summary of progress made and lessons learned during the TA towards the anticipated impact (sections 1-4).
- To document qualitative and quantitative data collected during TA, for use in donor and UN reporting (Annex 1).

Steps for completing the TA closure report:

1. The lead TA implementer submits the closure report at the end of the technical assistance as a final deliverable. The TA closure report will capture outputs, outcomes and impacts of all activities conducted under the TA. Please copy and summarise relevant material from previous TA outputs/deliverables and the Response Plan, as relevant.
2. A CTCN Manager will review and revise the closure report before final approval by the CTCN Deputy Director.

Important note on public and internal use of the closure report:

Once approved by the CTCN Deputy Director, the TA closure report will be a public document available on the CTCN website www.ctc-n.org. Selected content will be used for targeted communication activities. Annex 2 is for internal use only and will not be publicly available.

Closure Report for CTCN Technical Assistance

1. Basic information

Basic Information	
Title of response plan	Development of a Multi-Hazard Platform for forecasting Local level climate extremes and physical hazards for Iskandar Malaysia
Technical assistance reference number	LTR/2022/807/CTR
Country/ countries	Malaysia
NDE focal point and organisation	Ministry of Natural Resources, Environment and Climate Change (NRECC)
NDE contact information	
Proponent focal point and organisation	Iskandar Regional Development Authority (IRDA)
Designer of the response plan	Deltares + UTM (sub-consultant)
Implementer of response plan	Deltares + UTM (sub-consultant)
Sector(s) addressed	Disaster risk reduction

Technologies supported	Multi-Hazard Risk Assessments and Forecasting
Implementation start date	01/12/2023
Implementation end date	01/06/2025
Total budget for implementation	USD 232414, -
Description of delivered outputs and products as well as the activities undertaken to achieve them. In doing so, review the log frame of the original response plan and refer to it as appropriate	<ul style="list-style-type: none"> - Prototype of the Multi-Hazard Platform - A capacity needs assessment - Several trainings on the setup and use of the multi-hazard platform - Stakeholder engagement workshops
Methodologies applied to produce outputs and products	
Reference to knowledge resources	

2. Lessons learned

	Lessons learned	Recommendations
Lessons learned from the CTCN TA process	Data collection is taking much time. Timeline for data collection was not well defined at the start of the project.	<ul style="list-style-type: none"> - Account sufficient time for data collection in the project - Agree on the timeline for data collection and plan for alternative data sources to continue the work
	Sharing of data between agencies is not formalized. This results in a bureaucratic process (e.g. approvals) and associated costs for sharing data	<ul style="list-style-type: none"> - Make a provision in the project budget for sharing of data, or make clear arrangements
Lessons learned related to climate technology transfer	Developing and maintaining an operational multi-hazard platform requires highly skilled staff in e.g. hydrology, IT and meteorology. The receiving organization does not have the skills, nor the mandate for operating such a platform.	<ul style="list-style-type: none"> - When defining the project, or before the start of the project, make sure the right parties are involved. - Do a technology readiness scan with the proposed organizations to identify gaps in the organization for adopting new technologies.

3. Illustration of the TA and photos

For communication purposes, please provide 2-4 Power Point slides, including illustrations or charts, describing barriers, opportunities, methodology, activities, outputs and achieved results. The illustrations must be copied into the TA Closure report but must also be delivered as power point files. Also, please provide at least five high-resolution pictures in jpg format, capturing technical assistance. The pictures should illustrate how the TA has impacted the lives of the beneficiaries in particular and the communities in general.

4. Impact Statement

The information in the table below will be used to communicate results and anticipated impacts of this technical assistance publicly. Please copy information from impact statement developed in the M&E Plan and update as relevant.

Challenge	<p>The Climate Technology Centre and Network (CTCN), being the operational arm of the United Nations Framework Convention on Climate Change, received and awarded a request from Malaysia to provide Technical Assistance (TA) on Development of a Multi-Hazard Platform for forecasting Local level climate extremes and physical hazards for Iskandar Malaysia. The objective of the TA is to enable Iskandar Malaysia to take early actions to mitigate climate risk through a decision support system designed in an inclusive manner and based on the understanding of the local level climate extremes and their impacts by integrating them into a prototype Multi-Hazard Platform (MHP) focusing on coastal hazards.</p> <p>Coastal areas in Malaysia are largely affected by various hazards (floods, droughts, erosion, etc.) affecting its growing population and increasing number of assets. Combined with climate change and sea level rise, these hazards threaten the fast-growing coastal developments in Malaysia.</p> <p>The TA will deliver a prototype decision support tool which will demonstrate how a multi-hazard platform for five zones of Iskandar Malaysia can help address growing climate change risks of this important coastal economic zone.</p> <p>The overall goal of the project is to (1) develop technical specifications to design and integrate information on local climate extremes and hazard risks in a multi-hazard platform (MHP) for Iskandar Malaysia (IM), (2) develop a prototype and establish the financing requirements to operationalize the MHP for IM, and (3) improve local capacities in implementing a people-centered forecasting system using social innovation.</p>
CTCN assistance	<ul style="list-style-type: none"> • Liaison with NRECC • Updated CTCN website dissemination of the MHEWS
Anticipated impact	<ul style="list-style-type: none"> • Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses. • Information available to cover targeted population groups with adequate risk reduction systems
Anticipated co-benefits from the TA	<ul style="list-style-type: none"> • Capacity building of IRDA staff in IM
Gender aspects of the TA	<p>An assessment will be made of the gender aspects related to the flood hazard and risk assessment. The project will develop hazard and risk maps, identifying land use zones and building types at risk. Based on available information about the population and the gender aspects we will assess how flood risk affects men and women in the 5 selected regions in Iskandar Malaysia.</p>
Anticipated contribution to NDC	<ul style="list-style-type: none"> • The implementation of climate change adaptation in Malaysia focuses on the management of water resources and security, coastal resources, agriculture and food supply, urban and infrastructure

	<p>resilience, public health, forestry and biodiversity and key adaptation cross sectoral areas.</p> <ul style="list-style-type: none"> • Minimizing flood impacts by incorporating climate change factors into flood risk assessment and protection projects are important for Malaysia. In this regard, weather-flood forecasting and early warning system based on future climate conditions will be improved. • Sea level rise (SLR) poses threat to Malaysia’s coastal resources. SLR and storm surge projections will be mainstreamed into the Integrated Shoreline Management Plan and for the planning of coastal protection and development projects. • In managing future risks and potential loss from climate change, Malaysia is mainstreaming climate resilience into urban planning and development of infrastructures. This will include emphasizing infrastructure integrity assessments and revisions of the existing manuals and guidelines.
<p>The narrative story</p>	<p>Coastal areas in Malaysia are largely affected by various hazards (floods, droughts, erosion, etc.) affecting its growing population and increasing number of assets. Combined with climate change and sea level rise, these hazards threaten the fast-growing coastal developments in Malaysia.</p> <p>This TA delivered a prototype decision support tool which demonstrates how a multi-hazard platform for five zones of Iskandar Malaysia can help address growing climate change risks of this important coastal economic zone. Having such information available is a required first step towards becoming climate resilient.</p> <p>The overall goal of the project was to (1) develop technical specifications to design and integrate information on local climate extremes and hazard risks in a multi-hazard platform (MHP) for Iskandar Malaysia (IM), (2) develop a prototype and establish the financing requirements to operationalize the MHP for IM, and (3) improve local capacities in implementing a people-centered forecasting system using social innovation.</p> <p>Through this TA the local capacity of key stakeholders was strengthened. The prototype supports on the job enhancement of the capacity to deal with climate risks.</p>
<p>Contribution to SDGs</p>	<p>Contribution is to SDG13: The TA provides information and tools that can be used to develop climate actions to reduce the impact of climate induced hazards. This includes the development of risk knowledge and translating this knowledge into real-time information.</p> <p>Contribution to SDG5: This TA will assess gender aspects related to flood risk in Iskandar Malaysia. This information could be used later to improve gender equality, e.g. by targeting men and women with specific risk information products.</p> <p>Contribution to SDG11: This TA targets communities in Iskandar Malaysia. The TA will provide these communities with actionable information to improve their climate resilience.</p>

	The flood risk knowledge developed in this TA can provide information to make human settlements safe and resilient.
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Annex 1 Technical assistance data collection

Please add quantitative and qualitative values for the indicators selected in the M&E plan and monitored throughout the technical assistance in the tables below. Indicators which have been monitored in addition to the proposed indicators below may be added at the end of table A. Non-relevant indicators should be left blank.

A. Output and outcome indicators

Indicator	Quantitative value	Qualitative description
Please note indicators below highlighted as anticipated	<i>Numerals only; disaggregates must sum to the total</i>	<i>List the various elements corresponding to the quantitative value as well as timelines and responsible institutions</i>
Total number of events organized by proponents and implementing partners	6	
Number of participants in events organized by proponents and implementing partners	25	
a) Number of men	13	
b) Number of women	12	
Number of climate technology RD&D related events	6	
Number of participants in climate technology RD&D events	25	
a) Number of men	13	
b) Number of women	12	
Number of training organized by proponents and implementing partners	2	<i>Multi Hazard Platform (MHP) Iskandar Malaysia Basic Course</i> <i>Multi Hazard Platform (MHP) Iskandar Malaysia Web-Client</i>
Number of participants in trainings organized by proponents and implementing partners	25	
a) Number of men	13	
b) Number of women	12	
Total number of institutions trained	11	
a) Governmental (national or subnational)	12	<i>NRES, NAHRIM, MET-Malaysia, NADMA, DID, PLAN-Malaysia, BPEN, MBB, MBIP, MBPG, JOHOR-BAHRU-DISTRICT-OFFICE, IRDA</i>
b) Private sector (bank, corporation, etc.)	0	-
c) Nongovernmental (NGO, University, etc.)	0	-
Percentage of participants reporting satisfaction with CTCN training (from CTCN training feedback form)	N/A	
Percentage of participants reporting increased knowledge, capacity and/or understanding as a result of CTCN training (from CTCN training feedback form)	N/A	
a) Percentage of men	N/A	

b) Percentage of women	N/A	
Total number of deliverables produced during the assistance (excluding mission, progress and internal reports)	4	
a) Number of communication materials, including news releases, newsletters, articles, presentations, social media postings, etc.	0	
b) Number of tools and technical documents strengthened, revised or developed	1	Proof of Concept of a Multi-Hazard Platform, including a Functional & Technical Design Document and User Manual
c) Number of other information materials strengthened, revised or created (For example training and workshop reports, Power Points, exercise docs etc.)	5	<ul style="list-style-type: none"> - Training Needs Assessment Capacity Building Plan - Workshop materials (presentations) - Technical Committee Meeting materials (presentations) - Steering Committee Meeting materials (presentations) - Project Overview Presentation for DG
Total number of policies, strategies, plans, laws, agreements or regulations supported by the assistance	0	
a) Adaptation related	0	
b) Mitigation related	0	
c) Both adaptation- and mitigation related	0	
Anticipated number of policies, strategies, plans, laws, agreements or regulations proposed, adopted or implemented as a result of the TA	0	
a) Adaptation related	0	
b) Mitigation related	0	
c) Both adaptation- and mitigation related	0	
Anticipated number of technologies transferred or deployed as a result of CTCN support	1	Early warning systems
Anticipated number of collaborations facilitated or enabled as a result of technical assistance	N/A	
a) Number of South-South collaborations	0	
b) Number of RD&D collaborations	0	
c) Number of private sector collaborations	0	
Number of countries with strengthened National System of Innovation as a result of CTCN support	0	
Insert any additional indicators here		

B. Core impact indicators

Please fill in the tables for anticipated impacts of the CTCN assistance. Every technical assistance should contribute to at least one of the indicators below. For guidance on how to report on core indicators see the [‘M&E Guidance Document for TA Implementers’](#).

Core indicator 2	Anticipated increased economic, health, well-being, infrastructure and built environment, and ecosystems resilience to climate change impacts as a result of technical assistance
	<i>Please provide a qualitative description of the anticipated impacts on the categories below</i>
Infrastructure and built environment Anticipated increased infrastructure resilience (avoided/mitigated climate induced damages and strengthened physical assets)	
Ecosystems and biodiversity Anticipated increased ecosystem resilience (areas with increased resistance to climate-induced disturbances and with improved recovery rates)	
Economic Anticipated increased economic resilience (e.g. less reliance on vulnerable economic sectors or diversification of livelihood)	
Health and wellbeing Anticipated increased health and wellbeing of target group (e.g. improved basic health, water and food security)	

Core indicator 3	Anticipated number of direct and indirect beneficiaries as a result of the TA	
	Quantitative value	Means of verification
Total beneficiaries	<i>Total number</i>	
Number of adaptation beneficiaries		<i>Describe calculation methods and assumptions made</i>
Number of mitigation beneficiaries		<i>Describe calculation methods and assumptions made</i>
Number of adaptation-and mitigation beneficiaries		<i>Describe calculation methods and assumptions made</i>



Annex 2 (for internal use – to be filled in by the CTCN)

CTCN evaluation

This section will be completed by the relevant CTCN Technology Manager.

- Evaluation of the timeliness of the TA implementation as measured against the timeline included in the response plan;
- Evaluation of TA quality as defined in the response plan;
- Overall performance of the Implementers;
- Overall engagement of the NDE and Proponent;
- Lessons learned on the CTCN process and steps taken by the CTCN to improve.