

# iCARE Innovation Fund

Climate Resilient Infrastructure for  
Social Transformation and Adaptation  
(CRISTA) 2.0

Monthly Progress Report

Reporting period:  
**February 2024**

## 1. Project Information

<b>Project Title:</b>	Climate Resilient Infrastructure for Social Transformation and Adaptation (CRISTA) – 2.0
<b>Project Code:</b>	WBCAR
<b>Partner Organisation:</b>	Asian Institute of Technology
<b>Reporting Period:</b>	1 - 29 February 2024
<b>Date of Submission:</b>	5 March 2024
<b>Contact Name:</b>	Dr. Indrajit Pal
<b>Contact Position:</b>	Project Lead
<b>Contact Email Address:</b>	indrajit-pal@ait.ac.th
<b>Contact Telephone Number:</b>	
<b>Status of project progress in this reporting period</b>	<input type="checkbox"/> Significant delay <input type="checkbox"/> Delay <input checked="" type="checkbox"/> On Track
<b>Report sign Off</b>	<p>I have reviewed all the information provided for each section including number of beneficiaries. The information provided for each section of the report is complete.</p> <p>Name: <b>Dr. Indrajit Pal</b>      Designation: <b>Project Lead</b></p>

## 2. Key Achievements

- **The project team has completed preparations for the field mapping and survey activity.** The survey aims to collect primary data on various attributes of critical infrastructure in the three project municipalities. Based on the existing data requirement list, the project team has listed in detail the data which will be collected through the survey. Through a series of intensive internal meetings, the data collection tool (questionnaire) which will be deployed by the surveyors has been developed. Additionally, the project team has also prepared an operational survey plan.
- In conjunction with preparations for the field mapping and survey activity, **the project team has developed an extensive database of geospatial and non-geospatial data** which were collected from reliable secondary sources as part of the baseline study conducted by the project team. This includes datasets on flood and landslide hazards, existing road networks, locations of transformers, and several social infrastructure entities, such as ward offices and settlements.
- AIT and CRISTA project have **confirmed partnership as Academic and Innovation Partners with the Government of Nepal and Municipal Association of Nepal in organizing a national-level event, 'National Dialogue on Climate Change' in Nepal** on 12 March 2024. AIT and CRISTA will be directly involved in supporting the event. Moreover, the platform will provide an opportunity to the project to disseminate information on CRISTA to more than 250 participants including Municipal Mayors and Deputy Mayors, Elected Representatives and Representatives from Government Institutions and Non-Government Organizations working in Nepal.
- Subsequent to the acceptance of AIT's procurement plan by ADPC, the project team has begun the administrative process to procure consulting services for the project activities. The project team has finalized the TOR with a consulting firm in Nepal for the implementation of the project field activities: field mapping, survey, training and community engagement activities and workshops. Similarly, quotations for the consulting services for development of dashboard, web server and mobile application have also been received from qualified consulting firms.
- **AIT has confirmed attendance to the European Geosciences Union (EGU) General Assembly in Vienna, Austria on 14-19 April 2024.** During this event, Project Lead Dr. Indrajit Pal will disseminate information on CRISTA to a broad global audience, from scientists to early career researchers. The General Assembly expects over 18,000 attendees from all over the world.

### 3. Implementation Progress

Activity Title	Last Month Progress	Current Month Progress	Activities, and Events, planned for the subsequent month
<b>Activity 1.1.1: Conduct a Memorandum of Agreement with project local government and concerned authorities</b>	<ul style="list-style-type: none"> <li>- MoA signed with local implementation partner in Dhading, Nepal for coordinating field activities</li> <li>- Official letters received from three project municipalities (Neelkantha, Benighat Rorang and Gajuri) as support and endorsement of project objectives and outcomes.</li> </ul>	-	-
<b>Activity 1.1.2: Conduct baseline study of project areas and boundary partners</b>	<ul style="list-style-type: none"> <li>- Baseline study is being conducted in project implementation areas. Some components of the study (stakeholder mapping) have been reported in the Inception Report.</li> </ul>	<ul style="list-style-type: none"> <li>- The team continues the baseline study of the study areas. Datasets from secondary sources have been collected for future analyses and use in the CRISTA platform.</li> </ul>	<ul style="list-style-type: none"> <li>- Continue the baseline study and collect data from primary sources for future climate risk and vulnerability assessment and integration into the CRISTA platform.</li> </ul>
<b>Activity 1.1.3: Conduct inception workshop to identify needs and capacity</b>	<ul style="list-style-type: none"> <li>- One-day inception workshop held in project implementation area to consult with key stakeholders regarding project</li> </ul>	-	-

	objectives and outcomes.		
<b>Activity 2.1.1: Conduct field survey and mapping of climate hazards and critical infrastructure in project area</b>	<ul style="list-style-type: none"> <li>- Preliminary field survey and mapping planning has begun with identification of data requirements, availability of existing data and digital survey tools/equipment.</li> </ul>	<ul style="list-style-type: none"> <li>- Project team has developed data collection tool (questionnaire) for field mapping and survey activity as well as a survey plan.</li> <li>- ToR for consultant procurement has been developed and consultant firm has been selected. Contracting process currently ongoing.</li> </ul>	<ul style="list-style-type: none"> <li>- Selection and orientation of field surveyors for the mapping and data collection.</li> <li>- Surveyors will be mobilized in the project areas for the field survey and mapping.</li> </ul>
<b>Activity 2.1.2: Conduct climate vulnerability and risk assessment for critical infrastructure systems in the project area</b>	<ul style="list-style-type: none"> <li>- Discussions have begun regarding research design and conceptual framework for climate vulnerability and risk assessment.</li> </ul>	<ul style="list-style-type: none"> <li>- Baseline data on road and power infrastructure; and hazard data of the study areas have been collected from reliable secondary sources. Data is stored in a geospatial database for further analysis.</li> </ul>	<ul style="list-style-type: none"> <li>- Primary data will be collected from field mapping survey where detailed attributes of critical infrastructure will be recorded.</li> <li>- Framework for climate vulnerability and risk assessment will be developed.</li> </ul>

<p><b>Activity 2.1.3: Generate web-based GIS database and integrate baseline information and maps</b></p>	<ul style="list-style-type: none"> <li>- Data requirements for GIS database generation has been identified.</li> <li>- Collection of secondary data from open-source platforms has begun.</li> </ul>	<ul style="list-style-type: none"> <li>- Geospatial and non-geospatial data from baseline study has been collected from reliable secondary sources (OSM, BIPAD Portal, Municipal and Statistical Office)</li> </ul>	<ul style="list-style-type: none"> <li>- Primary data will be collected from field mapping survey to produce granular geospatial data for utilization in web-based GIS database.</li> </ul>
<p><b>Activity 2.1.4: Upgrade CRISTA dashboard, user interface and mobile application including field testing</b></p>	<ul style="list-style-type: none"> <li>- Preliminary structure of CRISTA system has been developed.</li> <li>- Enquired availability of several consulting firms for the task.</li> </ul>	<ul style="list-style-type: none"> <li>- TOR has been developed and circulated among several IT firms to collect quotations, as stated in the procurement plan. Quotations have been received from interested and qualified consulting firms.</li> </ul>	<ul style="list-style-type: none"> <li>- Collected quotations will be analysed and the project team will decide on IT firm selection.</li> <li>- Subsequent to selection, contracting process with selected IT firm will commence.</li> </ul>
<p><b>Activity 3.1.1: Establishment of CRISTA-2.0 monitoring system in local governments and integration with existing ICT systems</b></p>	<ul style="list-style-type: none"> <li>- Information on existing ICT equipment, personnel and mechanism is being collected as part of baseline study.</li> </ul>	<ul style="list-style-type: none"> <li>- Project team continues to collect information on existing ICT equipment, personnel and mechanisms for CRISTA integration.</li> </ul>	<ul style="list-style-type: none"> <li>- Based on the collected information, the project team will begin analysis on how to integrate CRISTA within existing ICT systems.</li> </ul>
<p><b>Activity 3.1.2: Development of SOP for CRISTA system</b></p>	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>

<b>Activity 3.1.3: TOT to technical officers of project area local governments on use of CRISTA system</b>	-	-	-
<b>Activity 3.2.1: Develop and produce IEC materials for public awareness on CRISTA system application</b>	-	- A short video and flyer are being developed for promotion of CRISTA solution among key stakeholders.	Flyers and video will be disseminated during the National Dialogue on Climate Change in Nepal on 12 March.
<b>Activity 3.2.2: Community level training program for incident reporting by general public</b>	-	-	-
<b>Activity 4.1.1: Prepare CRISTA 2.0 knowledge products and visual documentation</b>	-	-	-
<b>Activity 4.1.2: Conduct a project completion and lesson sharing workshop at regional or national level and report project achievements</b>	-	-	-

#### 4. Results Framework Indicators Progress

<b>PDO Indicator Description (Impact Indicator): Government agencies and Citizens who have access to climate-resilient solutions tested under the project</b>				
	<b>Baseline</b>	<b>Actual (Previous)</b>	<b>Actual (Current)</b>	<b>End Target</b>
Value	0	0	0	305
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Dec 2024
Comments	Local governments and communities' ability to monitor climate-induced hazards on critical infrastructure systems in real-time is enhanced, improving their response capacity and contributing to improved climate adaptation through infrastructure resilience in Nepal.			
Outcome 1 Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value	N/A	0	59	59
Date	20 Jan 24	15 Dec 2024	31 Jan 2024	31 Jan 2024
Comments	Outcome 1 is already completed.			
Output 1.1 Indicator Description: Number of endorsement letters received from government agencies for the implementation of project/development of solution.				
Value	N/A	N/A	3	3
Date	20 Jan 24	15 Dec 2023	31 Jan 2024	31 Jan 2024
Comments	Output 1.1 has been achieved.			
Outcome 2 Indicator Description: Number of knowledge products provided (by type of product, theme, country)				
Value	0	0	0	10
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 July 2024
Comments				
Outcome 3 Indicator Description: Number of incident reports generated by the system (infrastructure, location, hazard, level of damage)				
Value	0	0	0	300
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Dec 2024
Comments				
Output 3.1 Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category)				
Value	0	0	0	30
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Oct 2024



Comments				
Output 3.2 Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category)				
Value	0	0	0	200
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Dec 2024
Comments				
Outcome 4 Indicator Description: Number of events supported (by type, year, theme, country)				
Value	N/A	1	0	23
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Feb 2025
Comments		Inception Workshop		
Outcome 4 Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value	N/A	59	N/A	470
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	28 Feb 2025
Comments		Inception Workshop		
Output 4.1 Indicator Description: Number of knowledge products provided (by type of product, theme, country)				
Value	N/A	N/A	N/A	8
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Dec 2024
Comments				
Output 4.1 Indicator Description: Number of people / organizations provided with knowledge products (by recipient category, type of knowledge product, country, theme)				
Value	0	0	0	620
Date	20 Jan 24	31 Jan 2024	29 Feb 2024	31 Dec 2024
Comments				

**5. Challenges, Lessons Learned and Way Forward**

<b>Challenges</b>	<b>Lessons Learned</b>	<b>Way Forward</b>
No challenges encountered during this period.		

**Annexures:**

## Glossary

<b>Project Title</b>	means	Exact and full name of the project as defined in the Sub Grant Agreement
<b>Project Code</b>	means	A five-digit code assigned by ADPC
<b>Partner Organization</b>	means	The lead agency(ies) responsible for the implementation of the project
<b>Key Achievements</b>	means	The actual outcome or impact of your work, such as reaching a PDO, or outcome or output defined in the final and agreed Results Framework.
<b>Implementation Progress</b>	means	Implementation progress means the steps or actions taken to achieve the PDO or outcomes or outputs. In this case it would be the list of activities defined in the final and approved work plan
<b>Challenges</b>	means	The most significant and persistent areas of risk that affect the project's ability to achieve its objectives. Challenges could be related to managing the Sub Grant, sustaining development gains, coordinating with stakeholders, and implementing core management functions. Please also discuss the solutions to mitigate these risks.
<b>Lessons Learned</b>	means	Lessons learned are contextual or operational information that may affect planning and future performance. They highlight the insights gained from the activity's implementation practices and progress, such as staff feedback, stakeholder interviews, data analysis, and success stories. They also include any changes required by or support requested from ADPC or partners.



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