

iCARE Innovation Fund

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

Monthly Progress Report

Reporting Period (07, 2024)

Prepared by: Asian Institute of Technology (AIT)

1. Project Information

Project Title:	Climate Resilient Infrastructure for Social Transformation and Adaptation (CRISTA) – 2.0
Project Code:	WBCAR
Partner Organisation:	Asian Institute of Technology
Reporting Period:	1 - 31 July 2024
Date of Submission:	5 August 2024
Contact Name:	Dr. Indrajit Pal
Contact Position:	Project Lead
Contact Email Address:	indrajit-pal@ait.ac.th
Contact Telephone Number:	
Status of project progress in this reporting period	<input type="checkbox"/> Significant delay <input type="checkbox"/> Delay <input checked="" type="checkbox"/> On Track
Report sign Off	<input checked="" type="checkbox"/> 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. Name: Dr. Indrajit Pal Designation: Project Lead

2. Key Achievements

- **The CRISTA system is now live!!** The project has completed the development of the CRISTA 2.0 mobile application and web-dashboard including field testing in the project municipalities. Further troubleshooting, debugging and upgradation will continue with the feedback received from the users.
- The CRISTA website (www.crista-world.org) is also live for public access. This website will function as an outreach and information platform to showcase the CRISTA project and innovation and will include project activities, case stories, testimonials etc.
- On 7th July, CRISTA was featured in an op-ed article titled 'Local Governments in Disaster Management' published in 'Gorkhapatra', the official national news daily of the Government of Nepal. The author describes CRISTA application as an innovative tool connecting communities and local governments in exchange of information on disaster risk, impacts and early warnings to increase efficiency of risk management actions.
- On 9th July, CRISTA project team met with Mr. Anish Joshi, GIS and Risk Assessment Specialist of ADPC CARE SA project at Asian Institute of Technology. The meeting focussed on identifying synergies between CRISTA and CARE SA activities in Transport Sector in Nepal, potential avenues of collaboration and entry points for sustainability and scale-up of the CRISTA system in Nepal.
- On the 25th of July, the CRISTA project team submitted a six-monthly report to the iCARE team. The six-monthly report described the overall progress of the project between January and June 2024, highlighted key achievements and milestones, reported on the partnerships formed under the project, measures for project sustainability, communication products, challenges, and lessons learned. The report has been duly accepted by the iCARE team.

3. Implementation Progress

Activity Title	Last Month Progress	Current Month Progress	Activities, and Events, planned for the subsequent month
Activity 1.1.1: Conduct a Memorandum of Agreement with project local government and concerned authorities (Dec 2023 - Jan 2024)	<i>Completed</i>	<i>Completed</i>	N/A <i>This activity is completed.</i>
Activity 1.1.2: Conduct baseline study of project areas and boundary partners (Dec 2023 - Jan 2024)	<i>Completed</i>	<i>Completed</i>	N/A <i>This activity is completed.</i>
Activity 1.1.3: Conduct inception workshop to identify needs and capacity (Jan 2024)	<i>Completed</i>	<i>Completed</i>	N/A <i>This activity is completed.</i>
Activity 2.1.1: Conduct field survey and mapping of climate hazards and critical infrastructure in project area (Jan 2024 - Mar 2024)	<i>Completed</i>	<i>Completed</i>	N/A <i>This activity is completed</i>

<p>Activity 2.1.2: Conduct climate vulnerability and risk assessment for critical infrastructure systems (CIS) in the project area</p> <p>(Feb 2024 - May 2024)</p>	<p><i>Completed</i></p>	<p><i>Completed</i></p>	<p><i>N/A</i> <i>This activity is completed.</i></p>
<p>Activity 2.1.3: Generate web-based GIS database and integrate baseline information and maps</p> <p>(April 2024 - May 2024)</p>	<p><i>Completed</i></p>	<p><i>Completed</i></p>	<p><i>N/A</i> <i>This activity is completed.</i></p>
<p>Activity 2.1.4: Upgrade CRISTA dashboard, user interface and mobile application including field testing</p> <p>(April 2024 - July 2024)</p>	<p>In Progress</p> <ul style="list-style-type: none"> - Beta version of the mobile application and dashboard has been developed and is currently undergoing internal testing and troubleshooting 	<p>Completed</p> <ul style="list-style-type: none"> - Field testing of the beta versions of the application and dashboard has been complete with limited release to project partners. - The CRISTA team has developed two knowledge products related to the CRISTA system: CRISTA mobile app and CRISTA dashboard. 	<p><i>N/A</i> This activity is completed</p>

<p>Activity 3.1.1: Establishment of CRISTA-2.0 monitoring system in local governments and integration with existing ICT systems</p> <p>(July 2024 - Aug 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> - Consultation and planning for field testing and CRISTA system deployment to the target municipalities. 	<p><i>No activity performed in this month</i></p>	<p>In-progress</p> <ul style="list-style-type: none"> - Stakeholder meetings will be conducted in project municipalities to demonstrate the finalized version of the CRISTA system and start integration. - Project municipalities will receive user access to the system
<p>Activity 3.1.2: Development of SOP for CRISTA system</p> <p>(Aug 2024 - Sept 2024)</p>	<p>Planned in Aug/Sep 2024</p>	<p>Planned in Aug/Sep 2024</p>	<p>In Progress</p> <ul style="list-style-type: none"> - CRISTA SOPs will be drafted in close coordination with the project municipalities.
<p>Activity 3.1.3: TOT to technical officers of project area local governments on use of CRISTA system</p> <p>(Sept 2024 - Oct 2024)</p>	<p>Planned in Aug/Sep 2024</p>	<p>Planned in Aug/Sep 2024</p>	<p>In Progress</p> <ul style="list-style-type: none"> - Preparing roster of technical officers in project municipalities for implementation of trainings - Implement training programs for technical officers
<p>Activity 3.2.1: Develop and produce IEC materials for public awareness on CRISTA system application</p> <p>(Oct 2024 - Nov 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> - A poster presentation on CRISTA system was done on 11th June 2024 to representatives of Asian Development Bank, 	<p><i>No activity performed in this month</i></p>	<p>In Progress</p> <ul style="list-style-type: none"> - Training, awareness and promotional materials will be prepared for community training and technical officer training for the use of the CRISTA system

	<p>including Mr. Masatsugu Asakawa, President of ADB.</p> <ul style="list-style-type: none"> - CRISTA team had started developing of visual and written case stories to document climate-hazard impacts on critical infrastructure in the project areas to demonstrate the use of CRISTA system. 		
<p>Activity 3.2.2: Community level training program for incident reporting by general public</p> <p>(Nov 2024 - Dec 2024)</p>	Planned in Aug 2024	Planned in Aug/Sep 2024	<p>In progress</p> <ul style="list-style-type: none"> - The community training programs will be conducted in the three project municipalities.
<p>Activity 4.1.1: Prepare CRISTA 2.0 knowledge products and visual documentation</p> <p>(Nov 2024 - Dec 2024)</p>	N/A	<p>In Progress</p> <ul style="list-style-type: none"> - An op-ed article featuring CRISTA innovation has been published in Nepali national daily. - The CRISTA website has been developed and launched (www.crista-world.org). 	<p>In progress</p> <ul style="list-style-type: none"> - Communication materials will be prepared for the iCARE National Workshop in Nepal. - A case story will be developed on climate-induced damages and disruptions on road infrastructure in Nepal in 2024 and potential use of CRISTA application in

			supporting risk management.
Activity 4.1.2: Conduct a project completion and lesson sharing workshop at regional or national level and report project achievements (Dec 2024 - Jan 2025)	- Planned in Dec 2024	- Planned in Dec 2024	Planning for iCARE Field Mission to Nepal and National Workshop to be held in September 2024.

4. Results Framework Indicators Progress

PDO Indicator Description: Government agencies and Citizens who have access to climate-resilient solutions tested under the project				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0	0	0	305 (Government Agencies: 5, Citizens: 300)
Date	20 Jan 24	30 June 2024	31 July 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	N/A	59	59
Date	20 Jan 24	30 June 2024	31 July 2024	31 Jan 2024
Comments	Outcome 1 has been 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	3	3	3
Date	20 Jan 24	30 June 2024	31 July 2024	31 May 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	4	6	10
Date	20 Jan 24	30 June 2024	31 July 2024	31 October 2024
Comments	- Two new system level knowledge products have been developed (i) CRISTA Mobile Application			

	(ii) CRISTA Web Dashboard			
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	30 June 2024	31 July 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	30 June 2024	31 July 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	30 June 2024	31 July 2024	31 Dec 2024
Comments				
Outcome 4 Indicator Description: Number of events supported (by type, year, theme, country)				
Value	0	10	14	23
Date	20 Jan 24	30 June 2024	31 July 2024	28 Feb 2025
Comments	Four new supported events have been achieved, <ul style="list-style-type: none"> - CRISTA Website - Newspaper Article in National News Daily - Video Interview Facebook Posts - 2 			

Outcome 4 Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value	0	271	278	470
Date	20 Jan 24	30 June 2024	31 July 2024	28 Feb 2025
Comments				
Output 4.1 Indicator Description: Number of knowledge products provided (by type of product, theme, country)				
Value	0	7	8	8
Date	20 Jan 24	30 June 2024	31 July 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	271	272	620
Date	20 Jan 24	30 June 2024	31 July 2024	31 Dec 2024
Comments				

5. Challenges, Lessons Learned and Way Forward

Challenges	Lessons Learned	Way Forward
<p>The project encountered technical challenges in deployment of the CRISTA application for public access on Google Play Store including delays in internal testing and certification. This was due to lack of previous experience of developing and deploying public-use applications.</p>	<p>Need comprehensive understanding of procedures and processes linked with external agents (in this case Google Play Store) for detailed planning of activities.</p>	<p>While the certification process is ongoing, the application has been deployed through limited release to project partners and selected volunteers who will continue using the application.</p>

6. Annexes

Table: List of CRISTA knowledge products developed in July 2024

SN	Description	Type of Product	Language	Date	Target Audience	Link
1	CRISTA Website	Website	English	31 Jul-24	General Public	www.crista-world.org
2	CRISTA Mobile Application	Mobile Application	English/Nepali	31 Jul-24	Community People	<i>*Pending certification at Google Play Store</i>
3	CRISTA Web Dashboard	Web Dashboard	English	31 Jul-24	Government agencies	https://crista-world.org/dashboard?infrastructure_type=all&date_range=7_days
4	Gorkhapatra Newspaper Article	Newspaper Article	Nepali	7 Jul-24	General Public	https://1drv.ms/b/s!Ap2aueCDdCQg9RDneWlKA-EuPtG1w?e=yBd3kA
5	Interview with Raju Chauhan (Environmental ist) published on Samaya TV (Facebook)	Facebook Post	Nepali	1 Jul-24	General Public	https://www.facebook.com/watch/?mibextid=w8EBqM&v=954354183103365&rdid=3YEEzegtW0vCxUF6
6	Interview with Dr. Narayan Prasad Ghimire (Environmental ist) published on Samaya TV (Facebook)	Facebook Post	Nepali	1 Jul-24	General Public	https://www.facebook.com/watch/?mibextid=w8EBqM&v=372691342120062&rdid=hp9T1riX4109iXNt

Glossary

Project Title	means	Exact and full name of the project as defined in the Sub Grant Agreement
Project Code	means	A five-digit code assigned by ADPC
Partner Organization	means	The lead agency(ies) responsible for the implementation of the project
Key Achievements	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.
Implementation Progress	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
Challenges	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.
Lessons Learned	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.



Asian Disaster Preparedness Center

SM Tower, 24th Floor, 979/66-70 Paholyothin Road,
Phayathai, Bangkok 10400 Thailand

Tel: +66 2 298 0681-92

Fax: +66 2 298 0012

Email: adpc@adpc.net



www.adpc.net



Asian Disaster Preparedness Center - ADPC



@ADPCnet



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