

iCARE Innovation Fund

Early Warning and Decision Support System for Energy Infrastructure Resilience in the GBM Basin

Monthly Progress Report

Reporting Period (05, 2024)

Prepared by: Paul Janecek

1. Project Information

Project Title:	Early Warning and Decision Support System for Energy Infrastructure Resilience in the GBM Basin
Project Code:	WBCAR
Partner Organisation:	Think Blue Data Co., Ltd.
Reporting Period:	1 May 2024 - 31 May 2024
Date of Submission:	5th June 2024
Contact Name:	Paul Janecek
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Status of project progress in this reporting period	<input type="checkbox"/> Significant delay <input type="checkbox"/> Delay X On Track
Report sign Off	X 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: Paul Janecek Designation: Project Lead

2. Key Achievements

The key achievement from the past month has been the planning and preparation of the Capacity Development Training on Disaster Risk Reduction and Climate Change Adaptation for Disaster Management Officers that is set to be held on 10-14th June in Punakha, Bhutan. We have been coordinating with Bhutan Disaster Management stakeholders and UNESCAP to refine the training plans. This includes deciding on the topics, identifying the resource persons for each topic, setting up the detailed session plan etc. Additionally, we also focused on various logistic and administrative tasks in preparation of the training.

In parallel, we have been continuing with the development of the DSS web application. One major recent development has been the custom layer upload feature for logged in users.

3. Implementation Progress

Activity Title	Last Month Progress	Current Month Progress	Activities, and Events, planned for the subsequent month
1.1.1 Prepare Project Inception Report (Dec 2023)	Completed	Completed	N/A
1.1.2 Establish Community of Practice with key national and regional stakeholders (Dec 2023)	Completed	Completed	N/A
1.1.3 Gather requirements and priorities from key stakeholders through interviews and virtual study tours / workshops (Jan – Feb 2024)	Completed	Completed • Annex 1: Gap Analysis V4	Finalise Gap Analysis after discussions at Workshop
1.2.1: Maintain Community of Practice with key national and regional stakeholders (Jan – Mar 2024)	Completed • Gathered inputs from DDM on topics of interest for future CoP events, and identified relevant resources. Next event will be held at the workshop.	Completed	N/A

<p>1.2.2: Prepare forecast and geospatial data (Jan – Mar 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • DSS V1 Data Preparation Report DRAFT, V2 <p>In-Progress</p> <ul style="list-style-type: none"> • Gathering feedback 	<p>Completed</p> <ul style="list-style-type: none"> • DSS Data Preparation 	
<p>1.2.3: Iterative design and development of key online use-cases based on stakeholder priorities (Feb – Mar 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • Design and Implementation Report DRAFT, v4 <p>In-Progress</p> <ul style="list-style-type: none"> • Gathering feedback 	<p>Completed</p> <ul style="list-style-type: none"> • DSSV1 Design and Implementation Report 	
<p>1.2.4: Pilot-testing with designs and interactive prototypes with select stakeholders (Feb – Mar 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • See last month <p>In-Progress</p> <ul style="list-style-type: none"> • Pilot-testing with internal and UNESCAP stakeholders 	<p>Completed</p> <ul style="list-style-type: none"> • Pilot-testing with hands-on case studies before the workshop. 	
<p>1.2.5 Workshop 1.0: Launch of DSS for pilot-testing by key stakeholders from government, community, and regional partners (Apr 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • Finalised workshop topics and general schedule with DLGDM and ESCAP • Agreed to division of logistics and costs for with ESCAP <p>In-Progress</p> <ul style="list-style-type: none"> • Finalising resources 	<p>Completed</p> <ul style="list-style-type: none"> • Finalised resources, content and hands-on case studies for the workshop. • Finalised the participant list and logistics. <p>In Progress</p> <ul style="list-style-type: none"> • Holding Workshop 	<p>Conduct Workshop June 10-14 in Punakha Bhutan</p>

<p>1.3.1 Maintain Community of Practice with key national and regional stakeholders (Apr – Jul 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • In-Progress • Gathered key topics of interest from DLGDM and developed draft for Workshop • Updated draft of topics and resources for Workshop 	<p>Completed</p> <ul style="list-style-type: none"> • Gathered resources and scheduled CoP events at the workshop. <p>In-Progress</p> <ul style="list-style-type: none"> • 	<p>Continue CoP events and planning</p>
<p>1.3.2 Refine and extend forecast and geospatial data (Apr – Jul 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • DSS V1 Data Preparation Report DRAFT, V2 <p>In-Progress</p> <ul style="list-style-type: none"> • Gathering additional data requirements 	<p>Completed</p> <ul style="list-style-type: none"> • DSS V1 Data Preparation Report <p>In-Progress</p> <ul style="list-style-type: none"> • Preparing case studies for the workshop 	<p>Gather data for DSS V2</p>
<p>1.3.3 Iterative design and development of key mobile use-cases based on stakeholder priorities (Apr – Jul 2024)</p>	<p>Completed</p> <ul style="list-style-type: none"> • <p>In-Progress</p> <ul style="list-style-type: none"> • Gathering additional requirements for next version of DSS 	<p>Completed</p> <ul style="list-style-type: none"> • <p>In-Progress</p> <ul style="list-style-type: none"> • Gathering requirements for next version of DSS 	<p>Design and implement DSS V2</p>
<p>1.3.4 Pilot-testing with designs and interactive prototypes with select stakeholders (May – Jun 2024)</p>	<p>Planned from May 2024 onward.</p>	<p>Completed</p> <ul style="list-style-type: none"> • <p>In-Progress</p> <ul style="list-style-type: none"> • Pilot-testing with hands-on case studies before the workshop. 	<p>Hands-on testing of DSS V1 with workshop participants</p>

<p>1.3.5 Workshop 1.5: Launch of DSS mobile app and online updates, with training and hands-on sessions for broader community</p> <p>(Jul 2024)</p>	<p>Planned from Jul 2024 onward.</p>	<p>Planned from Jul 2024 onward.</p>	
<p>1.4.1 Maintain Community of Practice with key national and regional stakeholders</p> <p>(Jul - Sep 2024)</p>	<p>Planned from Jul 2024 onward.</p>	<p>Planned from Jul 2024 onward.</p>	
<p>1.4.2 Refine and extend forecast and geospatial data</p> <p>(Jul - Sep 2024)</p>	<p>Planned from Jul 2024 onward.</p>	<p>Planned from Jul 2024 onward.</p>	
<p>1.4.3 Improve design and functionality based on community feedback and priorities, and share with key stakeholders</p> <p>(Jul - Sep 2024)</p>	<p>Planned from Jul 2024 onward.</p>	<p>Planned from Jul 2024 onward.</p>	

<p>1.4.4 Pilot-testing with designs and interactive prototypes with select stakeholders</p> <p>(Aug – Oct 2024)</p>	<p>Planned from Aug 2024 onward.</p>	<p>Planned from Aug 2024 onward.</p>	
<p>1.4.5 Workshop 2.0: Launch DSS version 2 with training and hands-on sessions</p> <p>(Oct 2024)</p>	<p>Planned in Oct 2024.</p>	<p>Planned in Oct 2024.</p>	
<p>1.5.1 Maintain Community of Practice with key national and regional stakeholders</p> <p>(Nov 2024 – Jan 2025)</p>	<p>Planned from Nov 2024 onward</p>	<p>Planned from Nov 2024 onward</p>	
<p>1.5.2 Refine and update DSS based on community feedback</p> <p>(Nov 2024 – Jan 2025)</p>	<p>Planned from Nov 2024 onward</p>	<p>Planned from Nov 2024 onward</p>	
<p>1.5.3 Review effectiveness and implement strategy for sustainability</p> <p>(Jan 2025)</p>	<p>Planned from Jan 2025 onward</p>	<p>Planned from Jan 2025 onward</p>	

4. Results Framework Indicators Progress

PDO Indicator Description: Government agencies and Citizens who have access to climate-resilient solutions tested under the project (Number)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value		0	0	Gov: 3 Sub-national Gov: 12 Citizens: 500
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category)				
Value		0	0	48
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments	Training under development			
Output Indicator Description: Number of people trained (online) (by sex, country, topic, year, participant category)				
Value		0	0	88
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments	Training under development			
Output Indicator Description: Number of knowledge products provided (by type of product, theme, country)				
Value		0	3	6
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments	Submitted Knowledge Products (A2: Design; A3: Data; DSSV1)			
Output Indicator Description: Number of people / organizations provided with knowledge products (by recipient category, type of knowledge product, country, theme)				

Value		0	0	People: 500 Organisation: 64
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments		Will share Knowledge Products at workshop in June		
Output Indicator Description: Number of events supported (by type, year, theme, country)				
Value		1	0	53
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments		Training workshop to be held in June		
Output Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value		23	0	205
Date		30 April 2024	31 May 2024	15 Jan 2025
Comments		27 participants plan to attend workshop in June		

5. Challenges, Lessons Learned and Way Forward

Challenges

Planning and preparing for a multi day training session has been challenging. Coordinating with various stakeholders, finalising the agenda items, identifying resource persons for different topics, arrangement of the logistics, planning of the financial aspects etc. has taken up a lot of time and effort. Since most of our focus has been on the preparation of this upcoming workshop, we have faced some delay on the document preparation side.

Lessons Learned

This past month has helped us understand the extensive planning that goes into conducting an onsite training session. This has highlighted the numerous logistical considerations, resource allocation, and coordination efforts needed to ensure smooth execution of the training.

Way Forward

The upcoming workshop will be a great platform to introduce our tool to the disaster management officers from 24 different dzongkhags of Bhutan. We are expecting the workshop to be a vital source of feedback from the stakeholders. This exposure and assessment should help shape our product and ensure end user satisfaction. Based on the feedback we will receive and the insights we will gain, we will refocus our development efforts as needed.

Annexures:

Annex 1 [A1 Gap analysis Report V4.pdf](#)

Annex 2 [A2 Design and Implementation Report.pdf](#)

Annex 3 [A3 Forecast and geospatial data.pdf](#)

Annex 5 [A5 Workshop Report V3.docx.pdf](#)

Annex 6 [A6 Agenda Bhutan Disaster Management Training Programme.pdf](#)

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.



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