

# iCARE Innovation Fund

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

### Monthly Progress Report

Reporting Period (04, 2024)

Prepared by: Paul Janecek

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# 1. Project Information

<b>Project Title:</b>	Early Warning and Decision Support System for Energy Infrastructure Resilience in the GBM Basin
<b>Project Code:</b>	WBCAR
<b>Partner Organisation:</b>	<a href="#">Think Blue Data Co., Ltd.</a>
<b>Reporting Period:</b>	April 2024
<b>Date of Submission:</b>	5th May 2024
<b>Contact Name:</b>	<a href="#">Paul Janecek</a>
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<b>Contact Telephone Number:</b>	+66 890177604
<b>Status of project progress in this reporting period</b>	<input type="checkbox"/> Significant delay      x      Delay <input type="checkbox"/> On Track
<b>Report sign Off</b>	<p>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.</p> <p>Name: Paul Janecek                      Designation: Project Lead</p>

## 2. Key Achievements

The key achievements from the past month are the download, processing and implementation of the previously identified datasets from Google Earth Engine (GEE), as well as the software development. The staging site now includes four hazards (Heatwaves, Flood, Rainfall, Drought) and two map layers (Population and Digital Elevation Model). The application now includes caching of files (JS, CSS, images etc.) and API resources to support offline features.

In parallel, we have also been focusing on the planning and preparation for the upcoming June workshop.

### 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 <ul style="list-style-type: none"> <li>Annex 1: Gap Analysis</li> </ul>	N/A
1.2.1: Maintain Community of Practice with key national and regional stakeholders (Jan – Mar 2024)	<b>Completed</b> <ul style="list-style-type: none"> <li>In-Progress</li> <li>Engagement with DDM, NCHM, and outreach to Energy</li> </ul>	<b>Completed</b> <ul style="list-style-type: none"> <li>Gathered inputs from DDM on topics of interest for future CoP events, and identified relevant resources. Next event will be held at the workshop.</li> </ul>	
1.2.2: Prepare forecast and geospatial data	<b>Completed</b>	<b>Completed</b>	Prepare case studies for the workshop.

<p>(Jan – Mar 2024)</p>	<ul style="list-style-type: none"> <li>● Annex 3: DSS V1 Data Preparation Report DRAFT, V1</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Reviewing data quality</li> </ul>	<ul style="list-style-type: none"> <li>● Annex 3: DSS V1 Data Preparation Report DRAFT, V2</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Gathering feedback</li> </ul>	
<p>1.2.3: Iterative design and development of key online use-cases based on stakeholder priorities</p> <p>(Feb – Mar 2024)</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● Annex 2: Design and Implementation Report DRAFT, v3</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Implementing more use cases</li> </ul>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● Annex 2: Design and Implementation Report DRAFT, v4</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Gathering feedback</li> </ul>	<p>Finalise development for the workshop.</p>
<p>1.2.4: Pilot-testing with designs and interactive prototypes with select stakeholders</p> <p>(Feb – Mar 2024)</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● Annex 4: Pilot-Test Report DRAFT, V1</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Pilot-testing with internal and UNESCAP stakeholders</li> </ul>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● See last month</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Pilot-testing with internal and UNESCAP stakeholders</li> </ul>	<p>Pilot-testing with hands-on case studies before the workshop.</p>
<p>1.2.5 Workshop 1.0: Launch of DSS for pilot-testing by key stakeholders from government, community, and regional partners</p> <p>(Apr 2024)</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● First draft of workshop reviewed with DLGDM</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Reviewing topic, resource, participant and logistics options</li> </ul>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>● Finalised workshop topics and general schedule with DLGDM and ESCAP</li> <li>● Agreed to division of logistics and costs for with ESCAP</li> </ul> <p><b>In-Progress</b></p> <ul style="list-style-type: none"> <li>● Finalising resources</li> </ul>	<p>Finalise resources, content and hands-on case studies for the workshop.</p> <p>Finalise the participant list and logistics.</p>

<p>1.3.1 Maintain Community of Practice with key national and regional stakeholders</p> <p>(Apr – Jul 2024)</p>	<p>Planned from Apr 2024 onward.</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>• <b>In-Progress</b></li> <li>• Gathered key topics of interest from DLGDM and developed draft for Workshop</li> <li>• Updated draft of topics and resources for Workshop</li> </ul>	<p>Gather more resources and schedule CoP events at the workshop.</p>
<p>1.3.2 Refine and extend forecast and geospatial data</p> <p>(Apr – Jul 2024)</p>	<p>Planned from Apr 2024 onward.</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>• Annex 3: DSS V1 Data Preparation Report DRAFT, V2</li> <li>• <b>In-Progress</b></li> <li>• Gathering additional data requirements</li> </ul>	<p>Gathering data for DSS version 2</p>
<p>1.3.3 Iterative design and development of key mobile use-cases based on stakeholder priorities</p> <p>(Apr – Jul 2024)</p>	<p>Planned from Apr 2024 onward.</p>	<p><b>Completed</b></p> <ul style="list-style-type: none"> <li>• Included in Annex 2: Design and Implementation Report DRAFT, v4</li> <li>• <b>In-Progress</b></li> <li>• Gathering additional requirements for next version of DSS</li> </ul>	<p>Gathering requirements for DSS version 2</p>
<p>1.3.4 Pilot-testing with designs and interactive prototypes with select stakeholders</p> <p>(May – Jun 2024)</p>	<p>Planned from May 2024 onward.</p>	<p>Planned from May 2024 onward.</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>	

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

#### 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



				Cit: 500	
Date		31 March 2024	30 April 2024	15 Jan 2025	
Comments		DSS is under development			
<b>Output Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category)</b>					
Value		0	0	48	
Date		31 March 2024	30 April 2024	15 Jan 2025	
Comments		Training under development			
<b>Output Indicator Description: Number of people trained (online) (by sex, country, topic, year, participant category)</b>					
Value		0	0	88	
Date		31 March 2024	30 April 2024	15 Jan 2025	
Comments		Training under development			
<b>Output Indicator Description: Number of knowledge products provided (by type of product, theme, country)</b>					
Value		0	0	6	
Date		31 March 2024	30 April 2024	15 Jan 2025	
Comments		Knowledge products under development			
<b>Output Indicator Description: Number of people / organisations provided with knowledge products (by recipient category, type of knowledge product, country, theme)</b>					
Value		0	0	People: 500 Organisation: 64	
Date		31 March 2024	30 April 2024	15 Jan 2025	
Comments		Knowledge products under development			
<b>Output Indicator Description: Number of events supported (by type, year, theme, country)</b>					
Value		1	1	53	
Date		31 March 2024	30 April 2024	15 Jan 2025	

Comments		Training on Climate Risk Assessment and Climate Data Downscaling		
<b>Output Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)</b>				
Value		23	23	205
Date		31 March 2024	30 April 2024	15 Jan 2025
Comments		Training on Climate Risk Assessment and Climate Data Downscaling		

## 5. Challenges, Lessons Learned and Way Forward

### Challenges

As discussed at the quarterly presentation last week, we have encountered delays in receiving feedback from stakeholders to finalise the deliverable documents. We are working with them to

We received additional details from the Bhutan Department of Local Governance and Disaster Management (DLGDM) on the agenda and budget of the training and DSS launch workshop planned in Q2 that are beyond our initial estimates. We are adjusting the procurement plan to shift the purchase of hardware to later in the year to reserve funds for this workshop in June.

### Lessons Learned

Continue to communicate with all stakeholders.

### Way Forward

Reallocation of budget to support key workshop

Communication and coordination with different government organisations, due to their priorities and availability.

Continue to work with UNESCAP and other partners.

**Annexures:**

[Annex 1: Gap Analysis](#)

[Annex 2: Design and Implementation Report DRAFT, v4](#)

[Annex 3: DSS V1 Data Preparation Report DRAFT, V2](#)

[Annex 5: Workshop Report DRAFT, V2](#)

## Glossary

<b>Project Title</b>	mea ns	Exact and full name of the project as defined in the Sub Grant Agreement
<b>Project Code</b>	mea ns	A five-digit code assigned by ADPC
<b>Partner Organization</b>	mea ns	The lead agency(ies) responsible for the implementation of the project
<b>Key Achievements</b>	mea ns	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>	mea ns	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>	mea ns	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>	mea ns	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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