

iCARE Innovation Fund

Heylhi 2.0

Monthly Progress Report

Reporting Period (07, 2024)

Prepared by: Small Island Geographic Society

1. Project Information

Project Title:	Heylhi 2.0
Project Code:	WBCAR
Partner Organisation:	Ministry of Climate Change, Environment, Energy, Dhiffushi Island Council, Vaikaradhoo Island Council, Water Solutions
Reporting Period:	1 July 2024 to 31 July 2024
Date of Submission:	5 Aug,2024
Contact Name:	Shaadhoon Mohamed Haleem
Contact Position:	Administrative Manager
Contact Email Address:	info@sigsmaldives.org
Contact Telephone Number:	+9609763588
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	<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: Mohamed Bunyameen Designation: Project Coordinator</p>

2. Key Achievements

During this reporting period, the following achievements were accomplished;

Meeting with Ministry of Climate Change, Environment, and Energy and Japan International Cooperation Agency (meeting minutes in annex)

App has been completed and is now undergoing internal beta testing. App is available in both Web and Android versions.

Meeting with fabricator team in order to design the new data collection markers.

Prototype design of data collection marker created.

Meeting with Citizen Science Coastal Consultant and End User Reporting Consultant to go through modules of the app (meetings minutes in annex)

3. Implementation Progress

Activity Title	Last Month Progress	Current Progress	Month	Activities, and Events, planned for the subsequent month
Activity 1.1.1: Redesign user interface (Dec 2023-May 2024)	Completed: Activity completed	Completed: Activity completed		-
Activity 1.1.2: Develop new features and back-end (Mar-May 2024)	Completed: • Activity completed	Completed Activity completed		-
Activity 1.1.3: Make Heylhi app available on Android and iPhone (April-May 2024)	In-Progress: Apple store publication process in progress Completed • APK for Android available	In-Progress: Apple store publication process in progress		Complete Apple Store publication
Activity: 1.2.1: Survey new islands (drone mapping and shoreline to identify locations to put photo markers and prepare base map of islands (Jan-Mar 2024)	Completed: • Dhiffushi baseline survey completed • Vaikaradhoo baselines survey completed	Completed Activity completed		
Activity 1.2.2: Design and make upgraded data collection markers. (April-May 2024)	In-Progress • Contractor has been finalized and waiting to receive final quantity from MOCCEE/ JICA to complete fabrication works.	Completed Activity completed		

Activity 1.2.3: Set up markers in the islands (May-June 2024)	In-Progress: ● Not yet started	In-Progress: ● Sample stand fabricated and ready for full assembly	
Activity 1.3.1: Train selected people from sites to collect data using Heylhi app (June 2024)	In-Progress: ● Training materials are being developed	In-Progress: ● Training materials being developed, pending visits to selected sites for training	Training materials attached in annex
Activity 1.4.1: Ongoing data collection (July 2024- Jan 2025)	In-Progress: ● Not yet started	In-Progress: ● Not yet started	-
Activity 2.1.1: Identify possible outputs, who will benefit from these and how can they use the outputs - workshops with MECCT and stakeholders (Mar-April 2024)	Completed Activity completed	Completed Activity completed	-
Activity 2.1.2: Develop, optimize, and test Matlab/Python scripts to analyze data collected through the Heylhi app (July 2024 - Jan 2025)	In-Progress: ● Not yet started	In-Progress: ● Citizen Science Coastal consultant and End User Reporting consultant engage and work-in-progress with Heylhi team	-
Activity 2.1.3: Training to analyze data (June 2024)	In-Progress: ● Not yet started	In-Progress: ● Not yet started	
Activity 2.1.4: Analyze data (July 2024 - Jan 2025)	In-Progress: ● Not yet started	In-Progress: ● Not yet started	-

<p>Activity 2.2.1 Prepare outputs (knowledge product i.e., reports, trend graphs)</p> <p>(Dec 2023 – Jan 2025)</p>	<p>In-Progress:</p> <ul style="list-style-type: none"> • Ongoing periodic meetings scheduled with the consultants to support project activities 	<p>In-Progress:</p> <ul style="list-style-type: none"> • Ongoing periodic meetings scheduled with the consultants to support project activities 	<p>-</p>
<p>Activity 2.3.1: Share outputs generated with project stakeholders</p> <p>(Jan 2025)</p>	<p>In-Progress:</p> <ul style="list-style-type: none"> • Not yet started 	<p>In-Progress:</p> <ul style="list-style-type: none"> • Not yet started 	<p>-</p>
<p>Activity 2.4.1: Present at conferences & publish papers</p> <p>(Jan 2025)</p>	<p>In-Progress:</p> <ul style="list-style-type: none"> • Not yet started 	<p>In-Progress:</p> <ul style="list-style-type: none"> • Not yet started 	<p>-</p>
<p>Activity 2.5.1: Share information about Heylhi to Government, Councils, resorts, research communities</p> <p>(Dec 2023 – Jan 2025)</p>	<p>In-Progress:</p> <ul style="list-style-type: none"> • MOCCEE has confirmed their availability to proceed with the workshop for their staff. 	<p>In-Progress:</p> <ul style="list-style-type: none"> • Workshop being planned for project islands to implement Heylhi 2.0 	<p>-</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	0	Government agencies: 8 Citizens: 150
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Outcome 1 Indicator Description: Upscale existing mobile application and coastal erosion and flooding data is being collected				
Value	0	n/a	0	6
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 1.1 Indicator Description: Number of people access to Heylhi app				
Value	0	n/a	0	150
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 1.2 Indicator Description: Number of sites (islands) with access to data collection facilities				
Value	1	n/a	0	6
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 1.3 Indicator Description: Number of people trained				
Value	0	n/a	0	50
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 1.4 Indicator Description: Number of uploads/entries per month per island				
Value	0	n/a	0	10
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Outcome 2 Indicator Description: Capacity developed to analyse data in Maldives and government agencies, local councils, and citizens using outputs from Heylhi 2.0 data				
Value	0	n/a	0	6
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025

Comments				
Output 2.1 Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category)				
Value	0	n/a	0	20
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 2.2 Indicator Description: Number of knowledge products provided (by type of product, theme, country)				
Value	0	n/a	2	5
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 2.3 Indicator Description: Number of people / organisations provided with knowledge products (by recipient category, type of knowledge product, country, theme)				
Value	0	n/a	0	150
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 2.4 Indicator Description: Number of events supported (by type, year, theme, country)				
Value	0	0	1	3
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				
Output 2.5 Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value	0	0	38	80
Date	15 Dec 2023	30 Mar 2024	31 July 2024	15 Jan 2025
Comments				

5. Challenges, Lessons Learned and Way Forward

Challenges

Beta testing of Heylhi 2.0 web application has commenced however, due to bugs in the web application the progress is slow for data collection

During the Heylhi 2.0 application development, difficulty in using a new framework and language was presented as it was the first time we are using Firebase backend. Along with this, uploading the application on app store has been challenging due to the extensive formalities required.

Lessons Learned

In terms of app development, there have been a few issues we have faced. Firebase plan needs to be upgraded, as the push notification feature is not available on the current tier. This feature has had to be on standby.

A recent FlutterFlow update introduced the debug panel feature, and since then queries have been extremely slow in test mode. This is inconvenient as test mode allows you to quickly see changes as you make them, without having to rebuild the app every time. Since test mode is unusable for the time being, the app has to be built every single time you want to see your changes, which takes several minutes every single time. This has made iteration and testing difficult.

The project had to be debugged after a FlutterFlow update caused breaking changes that were related to some dependencies being updated. This means that custom code had to be rewritten. Difficulties with translating Flutter code for the EXIF extraction to work with FlutterFlow, due to differences in the data types used.

Way Forward

Complete fabrication and set up markers. Trainings to be held in project islands for app use.

Annexures:

1. [Attendance Sheet JICA meeting 03072024.jpg](#)
2. [Meeting with Citizen Science Coastal Consultant and End User Reporting Consultant 200524.docx](#)
3. [Meeting with Fabricator \(25 07 2024\).jpg](#)
4. [Single frame marker prototype.jpg](#)

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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