PROJECT STATUS REPORT (PSR)

07/01/2022 - 12/31/2022 - PSR-09512

PROJECT SUMMARY

Operation number
JA-T1189

Suboperation number
ATN/ME-18064-JA

Project Name
Building Resilience through Climate Adaptation Technologies

Team Leader
Sudaney Blair

Executing Agency
Caribbean Climate Innovation Center

Purpose
The objective of the project is to enhance the early warning and data management system to provide enhanced weather and climate communication to vulnerable populations in urban communities and their communities in Jamaica

Project cycle

Approval Date	Signature Date	First Disbursement Date	Last Disbursement Date
2020-06-25	2020-07-14	2020-11-13	2023-07-14

PSR SCORE

- 0 - 1 Red Flag
- 1 - 2 Yellow Flag
- 2 - 4 Green Flag

LEARNINGS

1. Risk and Lessons

1.1. Risk

1.1.1. What do you think is the biggest risk that threatens the achievement of the project objectives?

During the July to December 2022 semester, the project was faced with very limited time to test and launch the new weather products that were co-designed for the Met service. The execution of the outreach program and media training depended on this. Additionally, co-finance that was granted by WMO CREWS was channeled through the Met service and misallocated by MEGJC which became inaccessible to the project. The funds were requested and were not received by December 31, 2022, 6 months after the request. To start beta testing the weather app for which the design is complete, a representative from the Met service required written authorization from their head ministry (MEGJC) to sign agreements with both apple and google platforms. This response did not come by December 31, 2022, even after being delayed for 5 months at that time. The co-finance was tied to the completion of the outreach program and the Met service website overhaul, this would therefore not be available after December 31st and these activities could not be completed and the co-finance returned. With this information, a no-cost extension was requested and granted in mid-December 2022.

1.2. Greatest Achievement or Failure

1.2.1. What has been the greatest achievement or failure in the last semester that affected the implementation of the project?

Despite the many delays that continued to haunt the project, we managed to achieve quite a bit. The BReTCAT project is now in a good position to deliver this project strong but still with little time. Here are our achievements for the last semester ending December 31, 2022: - Revised daily national weather forecast - design agreed with Met Service (template agreed June 2022) - Revised marine forecast - developed with Met Service (test production completed September 2022) - Redesign of Met Service website - recommendations submitted and discussed (November 2021) - New five-day Multi-Hazard Early Warning Service (MHEWS) forecast- design agreed with Met Service (template finalized September 2022) - Design of the weather app for Jamaica - agreed with Met Service and FMI (final proposals shared in June 2022) - New weather icons created for Jamaica (September 2022) - Quick reference guide - to explain the weather icons and standard terms used in Jamaican forecasts and warnings (final version awaiting review and approval by Met Service) - Designed community outreach initiative to get the new and improved forecast products to farmers, fishers, and urban dwellers - Engaged consultant and development to build the data platform - Created a proposal for the open data platform development and the overhaul of the CCICs website - Engaged developer for MSJs website overhaul - Organized Co-design workshop for Impact statements which will accompany forecasts by MSJ - Engaged developer to overhaul the CCIC website and integrate a data portal that will house different datasets for the long-term gain of entrepreneurs and others - Delivered 4 co-design workshops that allowed us to create the templates which will be used in the new forecasts

1.3. Findings and Lessons

1.3.1. What are the most useful findings and lessons from this project that when taken into consideration could improve the execution and results of existing projects and the design of similar projects in the future? A finding describes an action, circumstance or decision that was critical in determining the positive or negative evolution of the project (for example, switching from the development of a blockchain platform to a web-based shared database reduced the cost and time devoted to implementing the traceability capabilities required by the project). A lesson is a concrete, actionable proposal based on a finding that, in similar circumstances, would facilitate problem solving, risk mitigation, and the achievement of results (for example, Develop guidelines

and criteria to identify candidates that could benefit from the implementation of a blockchain platform, and assess during the design if the selected project satisfies the criteria before committing to develop one).

Throughout the life of this project, it has been clearly demonstrated that a project for a class of people should be led by the people. We experienced very high levels of interaction and appreciation from the different target groups in all our interactions, from focus group to baseline survey to co-designing, the people wanted this change and were very open and willing to share information to enhance the Met services forecast products. Also, finding a way to incorporate community groups work for us because we didn't only ask for input but they were able to be a part of the implementation. This helps them to own a part of this new development. Additionally, we learned that even though there was a basis for preconceived thoughts, approaching farmers, fishers, and urban dwellers with an open mind helped us understand the needs of these groups on a deeper level.

2. Scalability and replicability

2.1. Scalability Plan

2.1.1. Now that the Project is in the execution phase, have you developed any concrete plan or action that will allow it to reach a greater number of users/clients/beneficiaries (or broader environmental or resilience to climate change and natural disasters impacts) in the future?

The Design of the outreach initiative was done in a way to create and hand over WhatsApp channel ownership to the admin organization for each group created within the WhatsApp community for broadcasting weather forecasts. This will allow each group the ability to continue to grow their groups by choice without compromising the community as that ownership remains at the Met Service. With future developments, the Met service will already have a wide and relevant group of its primary target audience at its fingertips and this will provide them with the type of visibility that it would not have been able to garner before now because the new forecast products have been designed with their primary audience.

2.2. Costs and Partners to Scale

2.2.1. Now that the project is in the execution phase, do you know how much it costs to offer your product / service per user / client / beneficiary? Is this a factor that could affect reaching a greater number of users / clients / beneficiaries in the future? Has any public or private institution requested this information from you, looking for scaling or replicating the model / product / service?

The solution from this project will be handed over to a government agency so working through the cost of the product was irrelevant as the product will be offered publicly at no cost to the users. The major factor affecting the uptake of the app seems to be the accuracy of the forecasts that will be produced by the Met service once the products are completely handed over to them. At the point of this report, we have not yet launched the products publicly.

2.3. Facilitating or Hindering Factors

2.3.1. Has any of these factors affected the number of users/clients/beneficiaries (more/fewer) reached by the project compared to what was originally planned (or environmental or resilience to climate change and natural disasters impacts)?

[Coordination with third parties, Market size that could be reached, Knowledge of the existence of the solution by potential users/clients/beneficiaries]

2.4. Scalability Scope

2.4.1. How feasible it is that the organization could reach a number of users/clients/beneficiaries 5, 10 or 100 times the number originally planned in the project design, five years after the project ends?

[It could reach between 10 times and 100 times the number of users/clients/beneficiaries originally planned in the project design five years after its closure]

2.4.2. How likely is the organization to reach that number five years after the project ends?

[Probable (more than 50% but less than 90% chance)]

2.5. IDB Group business relation

2.5.1. Has a business relation been created with another part of the IDB Group different from IDB Lab?

Not at the time of this report.

2.6. Replicability Partners

2.6.1. Are you aware of any other entity at a national or international level that has copied / replicated completely or partially the business model of the project? Did you collaborate in the process with that entity?

[No]

2.7. Replicability Scope

2.7.1. Number of users / clients / beneficiaries reached by entities that have fully or partially replicated / copied the business model / products / services implemented with the support of the project?

[N/A]

2.7.2. Have you experienced, in the last year, significant expansion (50% or more) of the reach of the business model of the project beyond what was expected in the original project design (due to increasing of the organizational size, operational scope or geographic spread)?

[No]

2.7.3. Number of users / clients / beneficiaries reached as of the end of the year?

[N/A]

2.8. Sustainability

2.8.1. How do you think the project will continue once the IDB Lab financing ends? Examples: it has identified external financing sources to continue operating, it has reached the breakeven point through the sale of services and products, it has obtained the support of public institutions or the private sector, it will adjust the business model to remain viable (via franchises, etc.)

Once the products are fully handed over, provisions will be made in the government budget to sustain to availability of the products developed during this project except for the data platform which will be housed at the Caribbean Climate Innovation Center. This however will be maintained under its provisions.

3. Implementation

3.1. Facilitating or Hindering Factors

3.1.1. What specific aspects have (positively or negatively) affected the implementation of the project the most?

[Available resources, Contracting consultants / suppliers, Coordination with third parties]

3.1.2. Explain in detail how these factors that you identified have made the implementation of the project easier or more difficult

Contracting consultants helped in areas of data interpretation and market research studies mostly, however, we faced challenges with the head Ministry (MEGJC) of the Met service in areas of being able to mobilize the weather app for testing as the Met service had no direct authorization without this being granted by the Permanent Secretary in the Ministry, additionally, co-finance that came through the Met service was mishandled by the Ministry, making the funds inaccessible for over 6 months. The Resurgence team once again ran out of money and tried to make demands of the project, however, our responses to mitigate these issues started to take effect by the end of December

3.2. Novel Tecnologies Factors

3.2.1. If the project makes use of novel technologies or methodologies, what factors have facilitated or hindered the implementation of the technological solution initially proposed by the project?

[Previous experience of the executing agency / client with the technology, Access to subject matter experts by executing agency/client, Public recognition of the innovation of the project, Interest from other companies / government in the technology]

4. Development Outcomes (Quantitative)

4.0 Has your project contributed to any of the following indicators in the last 12 months (last year)?

[4.1. Number of companies benefited, 4.2. Direct jobs generated by the project or financing]

4.1. Number of companies with improved business performance or productivity

Total

73

Companies Owned/Led by Men

48

Companies Owned/Led by Women

25

4.1.2. Indicate which indicator in the results matrix is related to your answer, or how did you calculate this number?

This number is based on those companies that would have passed through the bootcamp

4.1.3. What type of services did the companies receive?

[Non-Financial]

4.1.4. Please select how the project is benefiting these companies

[Improved productivity or business performance (e.g. improved sales/reduced costs/improved profitability/return on capital/yields/labor productivity, Reduced climate risk or improved climate resilience of the Business, Improved capacity to address needs of youth/elderly or migrants, Improved capacity to address the needs of under-represented groups (e.g. afro-decedents/indigenous populations/people with disabilities/LGBTQ+), Improved capacity to address the needs of women]

4.2. Direct jobs generated by the project. How many people were directly employed as a result of the project funded by IDB Lab?

Total

15

Jobs created: number of men

7

Jobs created: number of women

8

4.2.2. Indicate which indicator in the results matrix is related to your answer, or how did you calculate this number?

This number is a generated estimate

4.5. Data Source

4.5.1. What kind of verification sources have you used to report the data you provided in this section? (Please select all that apply)

[Based on personal experience]

5. Development Outcomes (Qualitative)

5.1. Target population identified in the design

Is the target population that was identified in the design being reached by the project? Select the target population actually reached by the project that was originally identified in the project design.

[Urban/periurban population, Poor/vulnerable/low income population, SMEs]

5.2. Population served NOT identified in the project design

5.2.1. Select if there are Groups that were NOT originally identified in the project design but are being reached in the execution phase?

[Women, Senior adults, People with disabilities]

5.3. Facilitating or Hindering Factors

5.3.1. Factors that have affected (facilitated or hindered) reaching these groups, or the resilience/environmental impacts, in the numbers/dimensions that the project had originally planned.

[Changes in the implementation of the original design, Interest of clients/users/beneficiaries, Difficulties or advantages related to the adoption of technology, Scope of the access channels to the product/service, Improvements in the characteristics of the product/service offered]

5.3.2. Explain in detail how these factors that you have identified have affected the ability of the project to reach the groups (achieve resilience/environmental impacts) in the numbers/dimensions originally expected

The nature of this project has been viewed as relevant from the beginning within the right groups because the products as they were not widely understood by the users given the technical language. Most people already understood the need to have and utilize the forecast but most communicated the forecasts in their own language while others used the forecast to identify when it would rain. Fisherfolks for example: need information about wind speed and wave heights and though these are forecasted, they weren't all able to interpret it. The different groups (Farmers, fishers, and urban dwellers) were easily receptive and willing to contribute to the enhancement of the new weather forecast offered through this project.

INDICATORS

Overachieved Achieved Pending In process Overdue

C1: Adapt, enhance and codesign weather and climate information products

Weight: 54% **Qualification:** Satisfactory

50% 50%

	Indicators	Planned	Achieved	Status
I1	Number of people surveyed and interviewed for product design and research	1500 (2023-06-14)	585 (2022-06-30)	
I2	Number of weather products developed.	2 (2022-06-14)	3 (2022-11-02)	
I3	Number of workshops conducted with stakeholders	6 (2023-06-14)	3 (2022-11-02)	
I4	Number of Public Awareness Campaign implemented.	1 (2022-06-14)	1 (2022-11-02)	
I5	Percentage of organizations participating in the workshops that are representing vulnerable populations like neighborhood associations and other civil society organizations	15 (2023-06-14)	40 (2022-02-18)	
I6	Number of media outlets that participated in the workshop and that later promote or broadcast climate information	10 (2023-06-14)	5 (2022-11-02)	

C2: Use of Digital Technology and Social Media to Enhance Weather and Climate Data a

Weight: 29% **Qualification:** Satisfactory

40% 60%

	Indicators	Planned	Achieved	Status
I1	Digital weather app for smart phones developed	1 (2022-06-14)		
I2	Data and resource platform implemented	1 (2022-06-14)		
I3	Number of people that download and regularly use the app	5000 (2023-06-14)		
I4	Number of Public Awareness Campaign implemented.	0 (2020-07-14)	0 (2021-03-01)	
I5	Percentage of organizations participating in the workshops that are representing vulnerable populations like neighborhood associations and other civil society organizations	0 (2020-07-14)	6 (2021-03-01)	

C3: Support to SMEs with business models with access to weather and climate data

Weight: 17% **Qualification:** High Satisfactory

66% 34%

	Indicators	Planned	Achieved	Status
I1	Number of challenges implemented	3 (2023-06-14)	2 (2022-02-18)	
I2	Number of businesses responding to challenges	60 (2023-06-14)	67 (2022-11-02)	
I3	Number of businesses incubated	20 (2023-06-14)	33 (2022-11-02)	

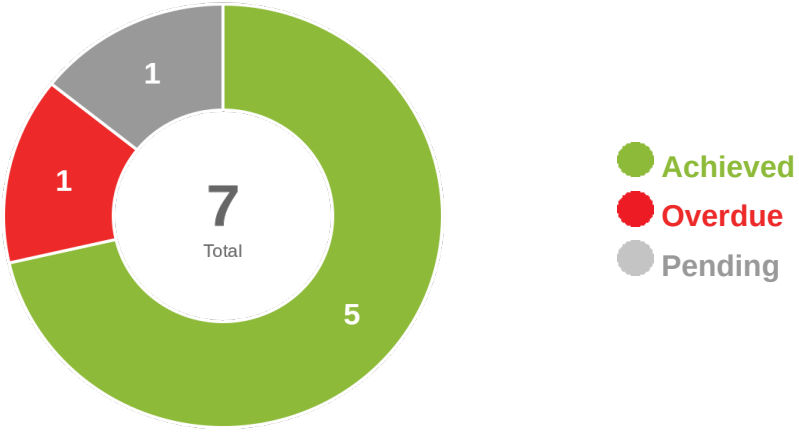
C4: Project Administration

Weight: 0% **Qualification:** Satisfactory

C5: Evaluation, Audit and Contingencies

Weight: 0% **Qualification:** Satisfactory

MILESTONES



Milestones	Achieved Value	Due Date	Achieved Date	Status
*Condiciones Previas / Prior Conditions	1	2021-01-14	2021-02-11	✓
*Co-design of weather information	1	2021-03-31	2021-02-15	✓
*First cohort of climate boot camp completed	1	2021-06-30	2021-03-01	✓
*Technical design of smartphone weather service	1	2022-03-31		✓
*Launch open data platform for meteorological & hydrological information	1	2022-06-30		⚠
*Businesses incubated	10	2021-12-31		✓
*Completion of the Marketing Campaign with 5000 user downloads	5000	2023-06-30		•••