

iCARE Innovation Fund

Social Innovation Through Technology Nudging:
Developing a Behavioral Toolkit for Diffusing Solar
Irrigation

Monthly Progress Report

Reporting period: April 2024

Prepared by **Durham University**

1. Project Information

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|--|---|
| Project Title: | Social Innovation Through Technology Nudging: Developing a Behavioral Toolkit for Diffusing Solar Irrigation |
| Project Code: | WBCAR |
| Partner Organisation: | Curtin University Australia, University of Rajshahi Bangladesh, American International University-Bangladesh, Khulna University Bangladesh |
| Reporting Period: | April 2024 |
| Date of Submission: | 08 May 2024 |
| Contact Name: | Dr Habib Rahman |
| Contact Position: | Project lead |
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| Contact Telephone Number: | +447440467648 |
| Status of project progress in this reporting period | <input type="checkbox"/> Significant delay <input checked="" type="checkbox"/> Delay <input 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 Habib Rahman Designation: Associate Professor, Durham University |

2. Key Achievements

- A quarterly progress review meeting was attended and the team presented quarterly progress.
- The draft version of the ADOPT training manual (the first milestone deliverable) is reviewed and the final version is being drafted.
- Grooming of field surveyors is complete and training on the baseline survey is in progress.
- The baseline survey questionnaire is complete.

3. Implementation Progress

| Activity Title | Last Month Progress (March) | Current Month Progress (April) | Activities, and Events, planned for the subsequent month (May) |
|--|--|--|---|
| Activity 1.1: Inception Workshop (Nov-Dec,2023) | Completed | Completed | N/A |
| Activity 1.2: Literature review (Jan-Feb,2024) | Completed | Completed | N/A |
| Activity 1.3: Brainstorming with local partners (Jan-Mar,2024) | Completed | Completed | N/A |
| Activity 1.4: Networking with Stakeholders (Feb-Mar,2024) | Completed | Completed | N/A |
| Activity 1.5: The ADOPT Training Manual development (Feb-Mar,2024) | <p>Completed</p> <ul style="list-style-type: none"> • First draft of the ADOPT training manual <p>In-Progress:</p> <ul style="list-style-type: none"> • ADOPT training manual document review (the first milestone) | <p>Completed</p> <ul style="list-style-type: none"> • ADOPT training manual document review (the first milestone) <p>In-Progress:</p> <ul style="list-style-type: none"> • Final documentation of the ADOPT manual | <p>Finalize the ADOPT training manual document and submission of the deliverable</p> <p>Note: This activity is delayed due to changes in study design, case study materials selection, and challenges in identifying local community trainers on the ADOPT manual. We expect to complete the activity in May.</p> |
| Activity 2.1: Building research teams (Feb-Mar,2024) | <p>Completed</p> <ul style="list-style-type: none"> • Recruitment of surveyors and field supervisors • Grooming surveyors and field supervisors <p>In-Progress:</p> <ul style="list-style-type: none"> • Identification of trainers on the ADOPT manual | <p>Completed</p> <ul style="list-style-type: none"> • Identification of trainers on the ADOPT manual <p>In-Progress:</p> <ul style="list-style-type: none"> • Training of surveyors | Complete training of surveyors and commence sampling frame preparations |

| | | | |
|---|--|--|--|
| <p>Activity 2.2: Survey App & baseline questionnaire (Mar-April,2024)</p> | <p>In-Progress:</p> <ul style="list-style-type: none"> Drafting baseline survey questionnaire draft | <p>Completed</p> <ul style="list-style-type: none"> Baseline survey questionnaire | <p>Pilot testing of the baseline survey questionnaire</p> |
| <p>Activity 2.3: Surveyors training (Mar-April,2024)</p> | <p>In Progress:</p> <ul style="list-style-type: none"> Training of surveyors on the ADOPT study design, and guideline on field preparations (e.g., survey area selection, responsibilities of field supervisors, making sampling frame and recruiting farmers for baseline survey) | <p>Completed:</p> <ul style="list-style-type: none"> Preliminary discussion on the ADOPT and its study design <p>In-Progress:</p> <ul style="list-style-type: none"> Online training (of surveyors) on the pilot test of baseline survey questionnaire | <p>Complete in-person training of surveyors on the baseline questionnaire</p> <p>Note: This activity is delayed due to a heat wave in Bangladesh. We expect to complete it by the third week of May 2024.)</p> |
| <p>Activity 2.4: Project site visits, farmer recruitment & baseline survey (April-May,2024)</p> | <p>NA</p> | <p>Completed:</p> <ul style="list-style-type: none"> Selection of the survey areas: 28 sub-districts 28 districts in Bangladesh Initiating site visits <p>In-Progress:</p> <ul style="list-style-type: none"> Project site visits Sampling frame Baseline survey preparations | <p>Complete project site visits, sampling frame, farmers' recruitment and commence baseline survey</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 | No training, no training manual, and no evidence of farmers' behavioral traits | 0 | 0 | Government agencies: 3 Ministry of Agriculture, GoB Ministry of Power, energy and Mineral Resources, GoB Ministry of Environment, Forest and Climate Change, GoB Citizens: 1400 Non-solar using farmers |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | | | | |
| Output Indicator Description: Number of people trained (in person) (by sex, country, topic, year, participant category) | | | | |
| Value | NA | 0 | 0 | NA |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | During the reporting month, we did not give any in-person training. | | | |
| Output Indicator Description: Number of people trained (online)- 30 (THIRTY) surveyors and 3 field supervisors from Bangladesh are recruited and have received online grooming on conducting field visits and preparing sampling frames. | | | | |
| Value | No training | | | Surveyors: 30 Field supervisors: 3 |
| Date | | 31 March 2024 | 30 Apr 2024 | |
| Comments | We will complete all training of surveyors by the third week of May 2024. | | | |

| | | | | |
|--|--|--------------|-------------|---------------------------|
| Output Indicator Description: Number of knowledge products provided- 1 (ONE) knowledge product (The ADOPT training manual) | | | | |
| Value | The ADOPT model | | | The ADOPT training manual |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | We reviewed the draft version of the ADOPT manual in April 2024. We will submit the document (the first deliverable) by the end of May 2024. | | | |
| Output Indicator Description: Number of people / organizations provided with knowledge products (by recipient category, type of knowledge product, country, theme) | | | | |
| Value | NA | 0 | 0 | NA |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | During the reporting month, we did not provide people/organizations with any knowledge product of this project. | | | |
| Output Indicator Description: Number of events supported | | | | |
| Value | NA | 0 | 0 | NA |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | During the reporting month, we did not organize any event. | | | |
| Output Indicator Description: Number of people participating in supported events- 50 (FIFTY) people participated in the policy engagement workshop organized in Bangladesh. | | | | |
| Value | NA | 0 | 0 | NA |
| Date | | 31 Marc 2024 | 30 Apr 2024 | 15 Jan 2025 |
| Comments | During the reporting month, we did not organize any event. | | | |

5. Challenges, Lessons Learned, and Way Forward

During the reporting month, the core research team completed the review of the draft version of the ADOPT training manual. The first challenge in finalizing the draft was to make it simple, clear, and comprehensive for the selected trainers. We have structured the manual in a logical manner (similar sequence for each module) and included relevant contents on solar irrigation features and benefits, national policies and Acts regarding sustainable energy and water use and agricultural technology diffusion, and government and private action programmes for reference (as case studies, videos and photo gallery). The second challenge is to ensure adaptability and engaged learning. Hence, we are now incorporating various methods of training-learning and receiving feedback from trainees (farmers). We are also preparing to translate the manual into the local language (i.e., Bangla) for better delivery by the trainers.

During the reporting month, the team faced another challenge, i.e., an ongoing heat wave in the project site- Bangladesh. Therefore, the tasks of completing in-person training and commencing the baseline survey (survey preparations include completion of project site visit, sampling frame, and farmers' recruitment) have been moved considering the health risks of farmers, surveyors, and trainers. However, we are coordinating with local partners and we have advised them to complete the second training session online and the third one in-person. We expect to commence the baseline survey by the end of May 2024.

Annexure:



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