

iCARE Innovation Fund

High Throughput Crop Monitoring using Computer Vision for Climate Smart Agriculture

Monthly Progress Report

Reporting Period (04, 2024)

Prepared by Dr Saqib Ali/Dr Sultan Habibullah Khan
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1. Project Information

Project Title:	High Throughput Crop Monitoring using Computer Vision for Climate Smart Agriculture
Project Code:	WBCAR
Partner Organisation:	Centre for Advanced Studies in Agriculture and Food Security, University of Agriculture Faisalabad, Pakistan Guangzhou Institute of Software Application Technology, P.R. China
Reporting Period:	Apr 01, 2024 to Apr 30, 2024
Date of Submission:	May 05, 2024
Contact Name:	Project Manager - Prof. Dr. Sultan Habibullah Khan
Contact Position:	Centre for Advanced Studies in Agriculture and Food Security, University of Agriculture Faisalabad, Pakistan
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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	<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: _____ Designation: _____

2. Key Achievements

1. Selection process for the positions of Engineer, Web/software developer and DPL completed.
2. Orientation of the hired staff has been completed.
3. Web portal development work initiated. Graphical User Interface (GUI) design has also been commenced. Frameworks required to achieve targets have been finalized.
4. Two weather stations are installed at UAF campuses in Faisalabad and Burewala.

3. Implementation Progress

Activity Title	Last Month Progress	Current Month Progress	Activities, and Events, planned for the subsequent month
Activity 1.1.1: Preparation of clear job description and advertisement (Dec-2023)	Completed	Completed	N/A
Activity 1.1.2: Interview, Selection, and orientation of candidates (Dec-2023)	In-Progress	Completed	N/A
Activity 1.2.1: Preparation of tenders and advertisement for bidding (Jan-Feb-2024)	Completed	Completed	N/A
1.2.2: Screening of bidding documents and preparation of supply orders (Feb-Mar-2024)	In-Progress	In-Progress	Issuance of Supply Orders.
Activity 1.3.1: Install and configure the equipment at relevant locations (April-2024)	In-Progress	In-Progress	Commissioning, Testing and Installation of the Equipment, if delivered, will be conducted.

Activity 1.3.2: Data acquisition (May - 2024)	In-Progress	In-Progress	We have installed 2 out of 4 weather stations and data is being transmitted; next month, we plan to complete the installation and initiate data analysis.
Activity 1.3.3: Data validation (June-2024)	In-Progress	In-Progress	We have installed 2 out of 4 weather stations and data is being transmitted; next month, we plan to complete the installation and initiate data validation.
Activity 1.4.1: Design and development of online portal and mobile app (Feb-Aug-2024)	In-Progress	In-Progress	Basic user functionality and basemaps will be added to the GUI.
Activity 1.4.2: Data integration (Jun-Sept-2024)	In-Progress	In-Progress	Once GUI and databases are linked, progress will start on this activity.
Activity 1.4.3: Testing (Aug-Nov-2024)	In-Progress	In-Progress	Once the app and portal are ready, progress will start on this activity.
Activity 1.5.1: Development of training materials and resources (Aug-Nov-2024)	In-Progress	In-Progress	Once the app and portal are ready, progress will start on this activity

Activity 1.5.2: Training of stakeholder on using the online portal and mobile app for crop monitoring (Nov- 2024-Jan-2025)	In-Progress	In-Progress	Once the app and portal are ready, progress will start on this activity
Activity 1.5.3: Organize awareness seminars, workshops and conferences (Nov- 2024-Jan-2025)	In-Progress	In-Progress	Once the app and portal are ready, progress will start on this activity
Activity 1.5.4: Policy for the potential of scaling up of technology for the South Asian region (Feb-2025)	In-Progress	In-Progress	Once the app and portal are ready, progress will start on this activity

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	Govt: 1 Citizens: 200 (M:100, F:100)	0	0	Govt: 2 Citizens: 1000 (M:500, F:500)
Date		30 Mar 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	Citizens: 200 (M:100, F:100)	0	0	Citizens: 400 (M:200, F:200)
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of people trained (online) (by sex, country, topic, year, participant category)				
Value	Citizens: 200 (M:100, F:100)	0	0	Citizens: 600 (M:300, F:300)
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of knowledge products provided (by type of product, theme, country)				

Value	3	0	0	6
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of people / organizations provided with knowledge products (by recipient category, type of knowledge product, country, theme)				
Value	Citizens: 200 (M:100, F:100)	0	0	Citizens: 1000 (M:500, F:500)
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of events supported (by type, year, theme, country)				
Value	Online: 1 Field: 1	0	0	Online: 2 Field: 2
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				
Output Indicator Description: Number of people participating in supported events (by participant category, sex, year, theme, country)				
Value	Citizens: 200 (M:100, F:100)	0	0	Citizens: 500 (M:250, F:250)
Date		30 Mar 2024	30 Apr 2024	15 Jan 2025
Comments				

5. Challenges, Lessons Learned and Way Forward

Annexures:

Glossary

Project Title	mea ns	Exact and full name of the project as defined in the Sub Grant Agreement
Project Code	mea ns	A five-digit code assigned by ADPC
Partner Organization	mea ns	The lead agency(ies) responsible for the implementation of the project
Key Achievements	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.
Implementation Progress	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
Challenges	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.
Lessons Learned	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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