PROJECT NOTIFICATION

Reference No.: 211

Date of Issue	22 September 2023
Project Code	23-RC-21-GE-RES-A
Title	Research on New Productivity Tools in Agriculture
Timing	25 September 2023–30 March 2024
Hosting Country(ies)	Not Applicable
Venue City(ies)	Not Applicable
Modality	Online
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Closing Date	25 October 2023
Remarks	The closing date is for the submission of proposals by research institutions. Please refer to the implementation procedures for information.

Objectives	Explore digital prediction tools available for adoption in the agriculture sector in APO member economies; develop guidelines on adopting digital prediction tools to analyze innovation and productivity performance in agriculture; and provide learning materials for adopting digital prediction tools in the agriculture sector in APO members.
Rationale	In agriculture, prediction tool adoption can be difficult given the many interacting factors involved. Most work in this area relies on undiscussed assumptions and lacks a transparent, collaborative approach. With digital technology, different tools and strategies can be introduced and applied for agricultural innovation and productivity enhancement.
Background	Innovation in agriculture is influenced by socioeconomic conditions, cultural norms, education levels, and access to information. Successful innovation necessitates understanding these factors and designing strategies suiting the diverse contexts in APO members. Predictive agriculture tools are valuable assets for guiding decision-making by providing precise information for improving operational efficiencies via the modeling and simulation of agricultural systems. By harnessing data analytics, machine learning, and predictive modeling, these tools offer insights into complex scenarios, allowing stakeholders to anticipate trends and outcomes. However, the utilization of such tools in agriculture for predicting the adoption of innovation remains an underexplored avenue. This research will explore existing digital prediction tools for the agriculture sector and develop learning material on their applications to enhance the innovation and productivity performance of APO member economies.
Topics	Theoretical overview of digital adoption processes for agricultural practices; Guide to the Adoption and Diffusion Outcome Prediction Tool (ADOPT); Digital production systems and simulation processes in agriculture; and Prediction-based systems for the agriculture sector for enhanced innovation and productivity performance.
Outcome	Learning material and guidelines on digital prediction tools for enhancing agricultural innovation and productivity performance are developed in APO member economies.
Qualifications	Research institutions with extensive, specialized knowledge in the topics covered with a track record of experience in conducting predictive analysis using online tools in the agriculture sector and research articles published in reputed journals.

Please refer to the implementation procedures circulated with this document for further details.

Dr. Indra Pradana Singawinata
Secretary-General