PROJECT NOTIFICATION

Reference No.: 148

Date of Issue	13 July 2023
Project Code	23-RC-23-GE-RES-A
Title	Research on Strategic Modeling for Future Agriculture in Asia
Timing	18 July 2023–31 December 2023
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	30 August 2023
Remarks	The closing date is for the submission of proposals by research institutions. Please refer to the implementation procedures for information.

Objectives	Explore different socioeconomic, climate, and technology scenarios in the agrifood sectors in APO members; analyze and produce longer-term projections based on strategic modeling of the agrifood sector in the Asia-Pacific; and recommend policies for enhancing agricultural productivity in the region to meet future needs.
Rationale	Asia still faces challenges in the agrifood sector, including impacts of global drivers such as climate change. It is crucial to explore the potential effects of these overall trends on agriculture and food security. This research will examine different scenarios and produce long-term projections based on modeling for the agriculture sector in APO members.
Background	The global population is expected to reach 9.2 billion in 2050. It is crucial to increase productivity in agriculture and double food production to meet the growing demand (UN FAO). Agriculture will be impacted by ongoing climate change, including rising sea levels, droughts, and floods, compounding pressure on food production systems. The population in Asia may grow by 25% between 2010 and 2050, and average income per capita may see a four-fold increase. Due to expected changes in environmental and socioeconomic trends, it is essential to conduct strategic modeling to predict the future of agriculture in Asia. Using the strategic modeling tool, this research will focus on the effects of climate and socioeconomic changes on agricultural productivity and consumption, explore the potential of R&D investments as adaptation measures, project long-term growth based on international modeling, and recommend policies for enhancing agricultural productivity in APO members.
Topics	Strategic modeling of agriculture; Effects of baseline technological growth on agricultural production and markets across Asia and changes due to projected impacts of climate change; Effects of investment in R&D on agricultural production and other climate change-related indicators; and Effects of socioeconomic changes on food demand and diets in the Asia-Pacific.
Outcome	A report on socioeconomic, climate, and technology scenarios in the agrifood sectors in APO members; long-term modeling projections; and recommendations on policies to enhance agricultural productivity in the region.
Qualifications	Research institutions with extensive, specialized knowledge in the topics covered with a track record of experience in conducting long-term policy analyses at national and regional levels in the agrifood sector and research articles published in reputed journals.

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

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