



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	<p>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).</p> <p>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.</p> <p>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.</p>
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.



Dr. Indra Pradana Singawinata
Secretary-General

**IMPLEMENTATION PROCEDURES FOR APO RESEARCH PROJECT ON STRATEGIC
MODELING FOR FUTURE AGRICULTURE IN ASIA
(DIGITAL MULTICOUNTRY)**

1. Methodology

- a. Submission of proposals: Interested research institutions submit their research proposals to the APO Secretariat by the deadline.
- b. Multistakeholder consultative meeting: To finalize the plan for the research, a meeting will be held virtually, tentatively in September 2023. The indicative agenda items and tentative timeline are:
 - Research overview: August 2023
 - Proposals for the study by research institution: August 2023
 - Discussion on implementation of the study: September 2023
 - Finalization of the research plan and initiation of research: September 2023
 - Completion of research: December 2023
- c. Joint study implementation: The research team will collect, process, and analyze data for the report. The final report will be submitted to the APO Secretariat by the end of December 2023.

2. Tasks of Selected Research Institution

- a. Assisting and working with the APO Secretariat in developing the research framework.
- b. Finalizing the methodology and outline of the report structure with the APO Secretariat.
- c. Collecting data for the research (including communicating with the original data owners) and analyzing them based on the agreed framework and methodology.
- d. Preparing the final report and submitting it to the APO Secretariat by the deadline.
- e. Supporting the APO Secretariat during the process of confirming the research findings with APO member economies.
- f. Providing support for dissemination of the research findings after report completion.

3. Qualifications of Research Institution

The APO Secretariat will select an appropriate research institution with the following qualifications:

- a. Extensive, specialized knowledge on strategic modeling for agriculture; ability to analyze different socioeconomic, climate, and technology scenarios in the agrifood sector; ability to analyze and produce longer-term projections based on strategic modeling of the agrifood sectors in the Asia-Pacific; ability to recommend policies for enhancing agricultural productivity in APO members; and with a track record of experience and publications in English.
- b. Experience in providing advisory services to governments.
- c. Excellent English writing skills.
- d. Strong commitment to undertaking and completing the research project within the given time frame.

Notes:

The detailed scope of work is provided in the Request for Proposal (RFP), which can be found in the following link. <https://www.apo-tokyo.org/procurement-notice/>

The selection of the participating research institution will be made by the APO Secretariat based on its selection criteria. The APO Secretariat will in no case be responsible or liable for any costs involved in proposal submission, regardless of the conduct or outcome of the selection process.

4. Financial Arrangements

To be met by the APO

Honoraria for the participating research institution to be paid upon completion of the final report.

To be met by the research institution

All implementation costs incurred by the selected research institution when conducting the study.