PROJECT NOTIFICATION

Reference No.: 581

Date of Issue	14 May 2025
Project Code	25-IP-15-GE-SMN-A
Title	Study Mission to a Nonmember Country on Innovative Technologies for Food Security
Timing	15 September 2025–19 September 2025
Hosting Country(ies)	Netherlands
Venue City(ies)	Wageningen
Modality	Face-to-face
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	20
Local Participants	Not Applicable
Closing Date	~~15 July 2025~~ NPO Pakistan Closing date: 24 June 2025
Remarks	This study mission to a nonmember will be held in Wageningen and other cities in the Netherlands.

Objectives	Showcase innovative technologies, methodologies, and practices for increasing food security, meeting food supply demand, and addressing nutritional insecurity in the Netherlands; and provide benchmarks and best practices for member economies to replicate.
Rationale	Innovative technologies for food security can address the challenges posed by global population growth, climate change, resource limitations, and evolving consumer demand. In line with the APO Vision 2025 of expanding smart transformation and Green Productivity to the agriculture sector, this study mission to the Netherlands, one of the world's top innovative agrifood countries, will be useful for APO member economies.
Background	According to the UN FAO, in 2023, 2.33 billion people, an estimated 28.9% of the global population, were moderately or severely food insecure. Innovative technologies can increase production and distribution. Precision agriculture includes using GPS, IoT sensors, drones, and AI to monitor crop health, soil quality, and resource usage, while reducing waste, improving yields, and allowing farmers to make data-driven decisions. However, these innovative technologies have not yet disseminated widely in APO members due to a lack of resources, knowledge, and infrastructure. With limited farming area, the Netherlands utilizes advanced agricultural technologies for efficient, sustainable food production. It optimizes crop growth through precision agriculture and minimizes water and fertilizer use. Vertical farming and controlled-environment agriculture allow crop growth indoors. This study mission to the Netherlands will give participants opportunities to view such innovative technologies and how they positively affect food security.
Topics	Precision agriculture; Genetic engineering; Climate-smart agriculture; AI and robotics in food value chains; and Blockchain applications in agriculture.
Outcome	Adoption of best practices from a nonmember, knowledge of innovative agricultural technologies expanded, sustainable food production enabled for resilient food systems, and improved access to nutritious food for all in APO members.
Qualifications	Government officials, representatives of private enterprises and farmers'/agribusiness associations, academics, and consultants working on innovative technologies in agriculture and food value chains.

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

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