



## PROJECT NOTIFICATION

Reference No.: 525

<b>Date of Issue</b>	6 February 2025
<b>Project Code</b>	25-CP-47-GE-WSP-A
<b>Title</b>	Workshop on Artificial Intelligence and Sustainability Applied in Aquaculture
<b>Timing</b>	3 June 2025–6 June 2025
<b>Hosting Country(ies)</b>	Republic of China
<b>Venue City(ies)</b>	Tainan
<b>Modality</b>	Face-to-face
<b>Implementing Organization(s)</b>	China Productivity Center
<b>Participating Country(ies)</b>	All Member Countries
<b>Overseas Participants</b>	19
<b>Local Participants</b>	6
<b>Closing Date</b>	11 April 2025
<b>Remarks</b>	Not Applicable

<b>Objectives</b>	Meet the growing demand for seafood while addressing challenges such as overfishing, environmental degradation, and resource scarcity, while exploring new possibilities with AI-powered aquaculture systems.
<b>Rationale</b>	With Green Productivity as one of its flagship programs, the APO emphasizes the importance of ensuring that both productivity improvement and environmental protection are harmonized in various sectors, including aquaculture. The integration of AI technologies into fishery management can contribute to the long-term sustainability and development of aquaculture.
<b>Background</b>	<p>Aquaculture and fish farming play vital roles in meeting the global demand for fish products, with production levels steadily rising to cater to a growing population. However, they face challenges such as ensuring environmental sustainability, improving operational efficiency, and complying with regulations. There is growing interest in utilizing technologies to enhance sustainability and efficiency in aquaculture operations.</p> <p>AI offers a variety of applications, including predictive analytics, image recognition, and autonomous systems, which can optimize different aspects of aquaculture management, boost production efficiency, and reduce labor costs (FAO, 2024). Additionally, sustainability is now a crucial consideration in aquaculture due to concerns about environmental impacts and resource conservation.</p>
<b>Topics</b>	Understanding the fundamentals of AI applications in aquaculture; Technical aspects of AI in aquaculture; Robotics in fish and shellfish aquaculture; Ethical considerations and regulatory frameworks of AI in aquaculture; and The future of precision aquaculture technologies.
<b>Outcome</b>	Participants acquire the knowledge and skills to harness the potential of AI applications to address sustainability challenges in aquaculture. By combining AI techniques with sustainability principles, they will be able to explore innovative solutions to enhance productivity, minimize environmental impacts, and promote long-term viability in aquaculture and fish farming.
<b>Qualifications</b>	Government officials, policymakers, executives of aquaculture associations, academics, and consultants working on aquaculture.

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



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