

Workshop on Food Security and Smart Monitoring

Date: 24 June-3 July, 2026

Application deadline: 20 May, 2026

*Invitation required: Through the R.O.C. (Taiwan) embassies, representative offices or Taiwan technical missions.

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ZERO HUNGER



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INDUSTRY, INNOVATION AND INFRASTRUCTURE



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RESPONSIBLE CONSUMPTION AND PRODUCTION



TAIWAN



Overview:

In the face of intensifying global climate change, rising geopolitical risks, and increasingly stringent food safety standards, the resilience and transparency of the food supply chain have become critical issues for national and corporate survival. This workshop focuses on integrating smart monitoring technologies (such as AIoT, satellite, and remote sensing) to establish a comprehensive food security early warning and management system from the farm to the table. The Workshop will explore data science for accurate yield forecasting, real-time pest/quality monitoring, and establishing a highly efficient digital traceability system. Through practical case studies and scenario simulations, participants can identify potential food crises, enhance response capabilities to supply chain disruptions, and ensure food quality and consumer confidence.

Objectives:

- **Smart Monitoring System Construction:** Apply IoT data and AI models to establish intelligent food security monitoring and early warning systems covering production, storage, and circulation.
- **Enhance Supply Chain Risk Response Capability:** Be equipped to analyze and respond to climate impacts, trade shocks, and food safety crises, strengthening supply chain resilience and traceability.

Contents:

- **Data Acquisition & Traceability:** Focus on IoT/Remote Sensing for production monitoring and utilizing Blockchain for tamper-proof supply chain traceability.
- **AI Modeling & Quality Assurance:** Apply AI for yield forecasting, early warning of pests/climate risks, and implementing rapid quality detection methods.
- **Risk Management & Crisis Response:** Study the digitalization of international safety standards and practice crisis handling for supply chain interruptions and food safety incidents.

Who may apply:

- **Background:** Core personnel in agriculture, health, environmental, and trade agencies responsible for food security, agricultural product inspection, and supply chain management.
- **Expertise:** Technical staff in information engineering, agricultural technology, and data analysis fields engaged in the development and maintenance of smart agriculture and food traceability systems.



Contact Person:

Ting-Yu Lin

Tel: 886-2-28886145

E-mail: ty.lin@icdf.org.tw