



ASEAN Food Security Information System
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Ministry of Agriculture and Cooperatives
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No. 1331.01/14

24 February 2021

Mr. Sang-Man Lee
Director General
International Cooperation Bureau
Ministry of Agriculture, Food, and Rural Affairs
Republic of Korea

Dear Mr. Sang-Man Lee:

**Subject: Establishing Real Time ASEAN Food Security Information
Network and Developing Human Resource (3rd Phase)**

Warm greetings from the ASEAN Food Security Information System (AFSIS) Secretariat!

I would like to thank you for your commitment to the cooperation with the AFSIS for the past several years. The AFSIS and the MAFRA, in collaboration with EPIS and ASEAN countries, have smoothly implemented the project 'Establishing Real-time ASEAN Food Security Information System and Developing Human Resources (Phase 1-2)' together.

I am writing this letter to inform you that the AFSIS Secretariat and the member countries are willing to continue this partnership and implement the 3rd phase of 'Establishing Real-time ASEAN Food Security Information System and Developing Human Resources.'

In this regard, for consideration of its cooperation program, we are submitting a **Project Concept Paper (PCP)** that outlines the next phase of the project, including the current situation, goals, and activities spanning the years to come.

In the 3rd phase of this project, we would like to build a Food Security Forecasting Model (FSFM) for six ASEAN countries using remotely sensed observations. We expect that, along with the current National Agricultural Information System (NAIS), the forecasting and early-warning system will contribute to the Food Security in ASEAN +3 region in a more advanced way.

Besides, we are willing to strengthen our partnership by co-hosting annual training workshops continuously, even after the 3rd phase of this project. Developing human resources by sharing knowledge is key to maintain and utilize the Food Security Information System.

I look forward to your continued cooperation in the next phase of the project.

Sincerely yours,



Dr. Waraporn Saelee
AFSIS Manager

Project Concept Paper

ESTABLISHING REAL-TIME ASEAN FOOD SECURITY INFORMATION SYSTEM AND DEVELOPING HUMAN RESOURCES (3RD PHASE)

I. Organization Information

1.1	Organization	ASEAN Food Security Information System (AFSIS) Secretariat
1.2	Address	50 AFSIS Secretariat, 2nd Floor, Office of Agricultural Economics (Innovation Building), Kasetsart University Complex, Phahonyothin Road, Ladyao, Chatuchak, Bangkok Thailand, 10900
1.3	Contact Person	Dr. Waraporn Saelee
1.4	Job Title	AFSIS Manager
1.5	Contact No.	(+66) 2-9407468
1.6	Email Address	aptfsis@gmail.com , waraporn.sae@gmail.com
1.7	Submission Date	February 24, 2021

II. Basic Project Information

2.1	Country	Cambodia, Lao PDR, Vietnam, Philippines, Myanmar, Indonesia
2.2	Project Title	Establishing Real-time ASEAN Food Security Information System and Developing Human Resource (3 rd Phase)
2.3	Duration	2022– 2027 (6 years)
2.4	Estimated Budget	(Total) 5 Million USD * The total budget and matching fund are to be confirmed.
2.5	Project Type	Agriculture, System Development, Capacity Building, etc.
2.6	Objectives	Enhancing the ASEAN region's food security by developing a Food Security Forecasting Model (FSFM).
2.7	Beneficiary	Governments and general population of ASEAN+3 Region
2.8	Coordinating Office	ASEAN Food Security Information System (AFSIS) Secretariat
2.9	Implementing Organization	<ul style="list-style-type: none">- Cambodia: Department of Planning and Statistics, MAFF- Lao PDR: Center for Agricultural Statistics, MAF- Vietnam: Center for Informatics and Statistics, MARD- Philippines: Philippine Statistics Authority (PSA)- Myanmar: Department of Agricultural Land Management and Statistics, MOALI- Indonesia: Center for Agricultural Data and Information Systems, MoA

2.10	Responsible Korean Organization	Ministry of Agriculture, Food and Rural Affairs (Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries)
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III. Project Description

Objectives

This project aims to enhance the ASEAN region's food security by developing a Food Security Forecasting Model (FSFM) using Remote Sensing Technology.

Background

AFSIS has been an ASEAN Hub for food security information and has coordinated joint projects in such areas in cooperation with the Korean government and six member countries: Cambodia, Lao PDR, Philippines, Vietnam, Myanmar, and Indonesia.



















From the year 2003, AFSIS has established a network system on food security and collected, utilized, and analyzed statistical data of ASEAN+3 countries.

Since 2005, the Korean government has hosted Training Workshops on agricultural statistics for ASEAN officials.

From 2014, AFSIS and the Korean government have implemented the project "Establishing Real-time ASEAN Food Security Information System and Developing Human Resource (1st-2nd Phase)" in six countries: Cambodia, Lao PDR, Myanmar, Vietnam, Philippines, and Indonesia. This project built National Agricultural Information System (NAIS) in the individual countries and computerized the collection/management/sharing process of agricultural statistical data at both production and distribution levels.

Now that the country-level agricultural data is connected to the AFSIS system in real-time, the pre-conditions are being fulfilled for the next level of the projects: developing Food Security Forecasting Models (FSFMs).

Table 1. AFSIS Project Phase I ~ III

Phase	Phase I. Production				Phase II. Distribution				Phase III. Forecasting/EWI
	2014	2015	2016	2017	2018	2019	2020	2021	2022 - 2027
Country	 LAOS	 CAMBODIA  PHILIPPINE	 VIETNAM  INDONESIA	 MYANMAR	 PHILIPPINES  LAOS	 CAMBODIA  VIETNAM	 INDONESIA	 MYANMAR	 CAMBODIA  VIETNAM  PHILIPPINES  LAOS  MYANMAR  INDONESIA
Content	[Production Information System] Production Quantity, Yield, and Area Produced/Harvested				[Distribution Information System] Inventory, Price, and Import/Export Quantity				[Food Security Forecasting System] Production Forecasting Model, Early-warning System, Maintenance
	[Capacity Building] Training Workshops on agricultural statistics and ICT application								

Project Approach

This project will adopt a stage-by-stage approach; it will establish a roadmap and masterplans, implement and analyze pilot projects in-depth, and refine the dissemination models for a fair amount of time.

The project consists of many nation-level projects and will be utilized at a region-wide level. Thus, establishing a mid/long-term roadmap and revising the nation-level legal/administrative systems are expected to follow in the early years.

Project Action Plan

The project will follow certain stages for each country and their strategic items.

Table 2. Action Plan for AFSIS Project Phase III

Country	2022	2023	2024	2025	2026	2027
Laos	Masterplan & Pilot Project	→	Dissemination Model	→	→	→
Cambodia	Preparation	Masterplan & Pilot Project	→	Dissemination Model	→	→
Myanmar		Preparation	Masterplan & Pilot Project	→	Dissemination Model	→
Vietnam		Preparation	Masterplan & Pilot Project	→	Dissemination Model	→
Philippines			Preparation	Masterplan & Pilot Project	→	Dissemination Model
Indonesia	Revision of existing model	→	Preparation	Masterplan & Pilot Project	→	Dissemination Model
Items	Rice	Rice	Rice Sugar Cane Soybeans	Rice Sugar Cane Soybeans	Sugar Cane Soybeans	Sugar Cane Soybeans
Details	<ul style="list-style-type: none"> - Mid/Long-term roadmap & strategy - Institutional/legal arrangement - Establishment of a prediction model - Construction of a system & satellite database 	<ul style="list-style-type: none"> - Mid/Long-term roadmap & strategy - Institutional /legal arrangement - Establishment of a prediction model - Construction and improvement of a satellite database sys - Revision of the pilot model 	<ul style="list-style-type: none"> - Mid/Long-term roadmap & strategy - Institutional /legal arrangement - Satellite database construction - System improvement - Revision of the pilot model 	<ul style="list-style-type: none"> - Mid/Long-term roadmap & strategy - Satellite database construction - System improvement - Revision of the pilot model 	<ul style="list-style-type: none"> - Establishment of a prediction model - Construction of a system & satellite database - System improvement - Revision of the pilot model 	<ul style="list-style-type: none"> - Establishment of a prediction model - Construction of system & satellite database - System improvement - Revision of the pilot model

Stage 1. Launching Masterplans for the development of FSFM

- Establishment of the masterplans (ISP/BPR) for each country
- In-depth analysis of remote sensing observation cases in agriculture
- Sample design for Pilot Project

Stage 2. Implementing Pilot Projects

- Collection of remote sensing information and securing GIS system in cooperation with related organizations.
- Construction of satellite D/B and agricultural observation information system.
- Comparative analysis on remotely sensed observation and existing agricultural information system.

* Stage 1 and stage 2 can be implemented simultaneously.

Stage 3. Adopting Dissemination Models

- Supplement of the result from the pilot projects

- Adoption & Dissemination of a Forecasting Model for agricultural production for strategic items such as rice, sugarcane, soybeans.
- Refinement of the dissemination model using updated information, both from remotely sensed observations and traditionally collected data.

Capacity Building

Throughout the whole cycle of the project, training workshops and dispatch of experts will be provided for developing capacity in remote sensing observations, forecasting, and agricultural statistics.

- Application of ICT in agriculture and designing Action Plans for adopting ICT national agriculture
- Agricultural forecasting and early-warning system
- Analysis of agricultural statistics, data mining, and archiving