Establishing Real Time ASEAN Food Security Information Network and Developing Human Resource

December, 2019

Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries (EPIS)
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1. Background of Real-Time AFSIS Project

1. Korea pledged to support AFSIS
   - At the ASEAN+3 Ministerial Meeting, Korea pledged to support human capacity development by hosting training programs (2001)
   - Korea irregularly provided support due to difficulties in securing budget

2. Limitations of Food Security Information
   - ASEAN countries have inadequate or no agricultural statistics system
   - AFSIS formally asked the Korean Government to improve the system (AFSIS LOI No.1303(April 2, 2013))

Real-Time AFSIS Project was needed
   - Real-Time AFSIS helps to monitor international food supply and demand situation, and to take immediate action on food security issues
AFSIS as a representative of ASEAN member countries asked the Korean Government to improve the current level of food security information system both ASEAN and each country. (AFSIS LOI No. 1303)

April 2, 2013

Proposal for AFSIS Project (LOI)

AFSIS will give full support to the Korean Government for the success of its projects. For the details of the project proposal, we will closely cooperate with the Korean Government. The concept note of the project is enclosed herewith.

Yours sincerely,

Mr. Montol Jeamchareon
AFSIS Manager

Enc. as stated
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Cc: Jae woo Song, Deputy Director, International Development & Cooperation Division
Paul Chang, Ph.D., Senior Vice President, Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries
AFSIS and Korean Government (MAFRA) signed the Record of Discussion on establishing Real-Time ASEAN Food Security Information Network and Developing Human Resources.
# Introduction of Real-Time AFSIS Project

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Establishment of real-time ASEAN Food Security Information Network and developing human resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Countries</td>
<td>Cambodia, Myanmar, Lao PDR, Vietnam, Indonesia, the Philippines, Thailand (AFSIS)</td>
</tr>
<tr>
<td>Project Components</td>
<td>Establishing National Action Plans and building national food security information system, connecting the national systems to EPIS &amp; AFSIS</td>
</tr>
<tr>
<td></td>
<td>Developing human resources to help utilize information system</td>
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<tr>
<td>Project Duration</td>
<td>Establishing National Action Plans and building national food security information system, connecting the national systems to EPIS &amp; AFSIS</td>
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<td>Developing human resources to help utilize information system</td>
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<td>Project Budget</td>
<td>1st Phrase: Total about $2,000,000 [$463,000(^\d{14}), $648,000(^\d{15}), $555,000(^\d{16}), $278,000(^\d{17})]</td>
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<tr>
<td></td>
<td>2nd Phrase: Total about $2,000,000 [$770,000(^\d{18}), $540,000(^\d{19}), $557,000(^\d{20}), $300,000(^\d{21})]</td>
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<td>Supervising Organization</td>
<td>Ministry of Agriculture, Food and Rural Affairs (MAFRA)</td>
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<tr>
<td>Implementing Agency</td>
<td>Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries (EPIS)</td>
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## 2. Introduction of Real-Time AFSIS Project

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<tr>
<td>Contents</td>
<td>▪ Establish - Standard Model(1st Phrase) - National Agri-food Information System (NAIS) (inc. production, yield, quantity, etc) ** Customized for each recipient country situation ▪ Build Human Resources</td>
<td>▪ Establish - Standard Model(2nd Phrase) - NAIS (inc. Wholesale/ Retail Price, Public/ Private Stocks) - Mobile System (APPs) - EWI (Pilot in Philippines) ▪ Build Human Resources</td>
<td>▪ Establish - Forecasting/ EWI system - Monitoring System ** covered by ASEAN+3 ▪ Maintenance &amp; Improvement(‘24~) ▪ Build Human Resources</td>
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</tbody>
</table>
2. Introduction of Real-Time AFSIS Project

- Project Supervision
  - MAFRA (General Division of International Cooperation)

- Project Cooperation
  - AFSIS Secretariat

- Project Implementation
  - EPIS (International Cooperation Team)
    - PMC
      - System Integrations Entrepreneur
    - Project Application
      - Recipient countries’ Ministry of Agriculture
3. Project Concept

National Agri-food Information System (NAIS)

WEB & Mobile Services
- Agricultural Stocks
  - Survey Status
  - Owned Area Trend
  - Production Trend
  - Distribution Trend
- Report
  - Report Status
  - Period Production Trend
  - Planted/Harvested Trend
- Board
- System
  - User Management
  - Code Management
  - Metadata Management
  - AFSIS Reporting

Sample of WEB Services

Sample Mobile Services

Android OS only

Mobile Survey for Strategy Crop(s)
4. Outcomes of Project (Laos, 2014)

H/W
- 1 AP Server
- 1 DB Server
- 22 PCS
- 1 Rack
- 1 UPS
- 1 Battery Case
- 1 Generator

S/W
- 1 Web Server
- 1 WAS
- 1 DBMS
- 1 Reporting Tool
- 1 Chart Component

National Agri-food Statistics System

Report
Enter The Query Conditions:
Searching Condition: All
Report Period: [ ]

Report List
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<td>17</td>
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<td>Start, Stop, End, Complete</td>
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</table>

Create
4. Outcomes of Project (Cambodia, 2015)

- 1 WEB Server
- 1 DB Server
- 1 Rack
- 1 UPS
- 2 PDUs
- 27 PCs, etc

- 1 Web Server
- 1 WAS
- 2 Server OS
- 2 Antivirus
- 1 DBMS
- 1 Reporting Tool

National Agri-food Information System

Survey Mgmt.
- List
- Create
- Select UIC

Report Mgmt.
- List
- Create

Operation
- Report Approval
- Survey Operation
- Survey Approval

User Manual

<table>
<thead>
<tr>
<th>Report Title</th>
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<th>Report Period To</th>
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<td>2017-05-10</td>
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<td>2017-08-02</td>
<td>2017-08-04</td>
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</table>
4. Outcomes of Project (Philippines, 2015)

**H/W**
- 1 AP Server
- 2 PCs
- 1 UPS
- 70 Tablets
- etc.

**S/W**
- 1 WAS
- 1 Web Server
- 1 Server OS
- 1 DBMS
- etc.
4. Outcomes of Project (Vietnam, 2016)

**H/W**
- 1 AP Server
- 1 DB Server
- 20 Desktops
- 5 Laptops
- 22 Tablets
- 1 WAS
- 1 Web Server
- 2 Server OS
- 1 DBMS
- etc.

**S/W**
- NAIS
- Market Price
- Report
- Annual Report
- Board
- System

**Report Status Sub Area List**

<table>
<thead>
<tr>
<th>District/Eng Name</th>
<th>Approval Status</th>
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<tbody>
<tr>
<td>Bac Lieu City</td>
<td>Finish Report</td>
<td>29 Nov, 2016 09:03:04</td>
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<td>Hong Dan District</td>
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<tr>
<td>Gia Rai Town</td>
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</table>

**Outcomes of Project (Vietnam, 2016)**

**H/W**
- 1 AP Server
- 1 DB Server
- 20 Desktops
- 5 Laptops
- 22 Tablets
- 1 WAS
- 1 Web Server
- 2 Server OS
- 1 DBMS
- etc.
4. Outcomes of Project (Indonesia, 2016)

H/W
- 2 Laptops
- 70 Tablets
- etc.

S/W
- 1 DBMS
- etc.
4. Outcomes of Project (Myanmar, 2017)

- H/W
  - 2 Servers
  - 1 Server Rack
  - 1 UPS
  - 2 Desktops
  - 85 Tablets
  - 1 WAS
  - 1 Web Server
  - 2 Server OS
  - 1 DBMS
  - etc.

- S/W

Outcomes of Project (Myanmar, 2017)
4. Outcomes of Project (Philippines, 2018)

H/W
- 2 Server
- 2 UPS
- 1 Server Rack
- 360 Tablet

S/W
- 1 WAS
- 1 Web Server
- 2 Server OS
- 1 DBMS

Grains Businessman List

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<th>Control No.</th>
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<th>Name</th>
<th>Major Stratum</th>
<th>Sub Stratum</th>
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<td>Retailer</td>
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</table>
4. Outcomes of Project (Laos, 2018)

H/W

- 1 UTM
- 1 UPS
- 1 Projector
- 200 Tablet

S/W

- 1 WAS
- 1 Web Server
- 1 Server OS
- 1 DBMS
4. Outcomes of Project (Vietnam, 2019)

**H/W**
- 1 PC
- 3 Lab top
- 2 Projector
- 40 Tablet

**S/W**
- 2 Server Vaccine
- 1 DBMS
4. Outcomes of Project (Cambodia, 2019)

**H/W**
- 1 UPS
- 1 UTM
- 1 Server
- 50 Tablet

**S/W**
- 1 WAS
- 1 Web Server
- 1 Server OS
- 1 DBMS
4. Outcomes of Project

**Developing Human Resources (Invitational Training/Workshop)**

Over 200 Government Officials since 2005 participating in the invitational training/workshop to enhance capacity on agricultural statistics and ICT Application
4. Outcomes of Project

Developing Human Resources (Local user’s training)

Over 1,000 Government Officials since 2014 participating in the local user’s training on how to utilize NAIS system efficiently
5. Expected Outcome

- **Save time by inputting data**
in the district/province level and swift approval procedure through NAIS.

- **Strengthen data analysis capacity**
of officials in recipient countries by using NAIS and also through human capacity building.

- **Swift response to food security issues**
not only in recipient countries but also in the ASEAN region in the long-run.
Thank you!