



ASEAN Agricultural and Biosystems Engineering Cooperation Framework and Complementary Action in support to ASEAN Food Security and Climate Change Adaptation and Mitigation

(ASEAN ABE Cooperation Framework)

3rd Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific

3rd ASEAN Conference on Agricultural and Biosystems Engineering

Co-located with the 12th Engineering Research and Development for Technology in Agriculture

9-11 December 2015, Manila, the Philippines

PRESENTATION CONTENTS

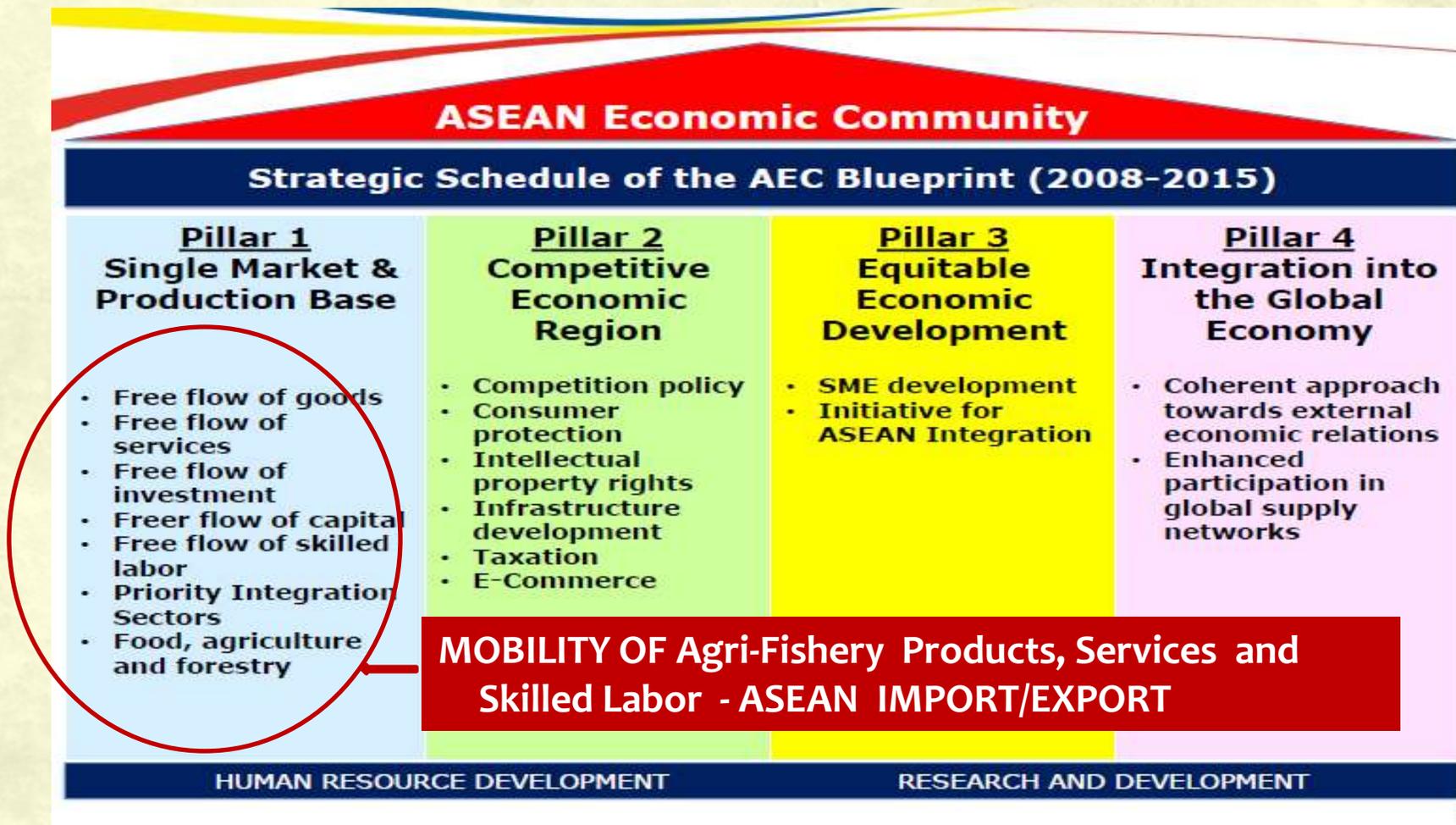
1. Background
2. ASEAN ABE Cooperation Framework
3. Implementation Updates

Background



ASEAN AND ITS DIALOGUE PARTNERS

Background



Background

***Agricultural and Bio-systems Engineering-* is the application of engineering science and designs to the processes and systems for the sustainable production, post production and processing of safe food, feed, fiber, timber and other agricultural and biological materials and the efficient utilization, conservation and management of natural and renewable resources in order to enhance human health in harmony with the environment**

Source : International Commission on Agricultural Engineering (CIGR) and Philippine Agricultural Engineering Law

Background

1st ASEAN Conference on Agricultural and Biosystems Engineering (ACABE-1)
September 24-27, 2013, Manila, Philippines



Theme : Integrating Agricultural and Biosystems Engineering for Food Security, Climate Change Mitigation and Global Practice in the ASEAN.



- ❑ **Adoption of ASEAN Agricultural and Biosystems Engineering Framework for Cooperation and Complementary Action in support to ASEAN Food Security and Climate Change Adaptation and Mitigation (ASEAN ABE Cooperation Framework)**

ASEAN ABE Cooperation Framework

ASEAN ECONOMIC COMMUNITY 2015



Component 3- COMPETITIVE AND SECURED ASEAN ABE WORKFORCE

Agricultural Engineers; ABE Technicians & Operators



Component 2- COMPETITIVE ASEAN ABE EDUCATION

Higher Education; Tech-Voc; and Basic Education



Component 1- SAFE & EFFICIENT ABE FACILITIES & TECHNOLOGIES FOR ASEAN FOOD SECURITY , BIOENREGY AND CLIMATE CHANGE MITIGATION

Agricultural Mechanization, Irrigation, Agro-Processing , Renewable Energy, etc.

Implementation Updates

ACABE-2, September 11-14, 2014, Serpong, Indonesia



Hosted and organized by the Ministry of Agriculture of the Republic of Indonesia through the Indonesian Agency for Agricultural Research and Development (IARD)

- **Discussed the implementation of ABE Cooperation Framework**
- **Organization of the ACABE Coordinating Committee chaired by Philippines**

Implementation Updates

Special Senior Officials Meeting of the ASEAN Ministers on Agriculture and Forestry (SOM-AMAF), August 12-14, 2015 at Nay Pyi Taw, Myanmar



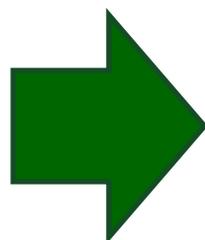
- ***Philippines presented the ASEAN ABE Cooperation Framework***
- ***Unanimously welcomed, Philippines to submit Action Plan in support to ASEAN Food Security Framework***

ASEAN INTEGRATED FOOD SECURITY (AIFS) FRAMEWORK & STRATEGIC PLAN OF ACTION ON FOOD SECURITY IN ASEAN 2015-2020 (SPA-FS 2015-2020)

AGRICULTURAL AND BIOSYSTEMS ENGINEERING COOPERATION IN ASEAN



+ Human Resource Development



OBJECTIVES

- sustain and increase food production
- reduce post harvest losses
- ensure food safety and quality
- ensure sustainable, efficient and effective use of land, forest and water resources- to minimize risks and impacts of climate change (AFCC)

Implementation Updates

ASEAN Universities Consortium on Food and Agro-based Engineering & Technology (AUCFA)



3rd annual AUCFA meeting and 1st International AUCFA Student Seminar and Idea Competition on Food and Agro-based Engineering and Technology, October 15-17, 2014 at IPB International Convention Center, Bogor, Indonesia.

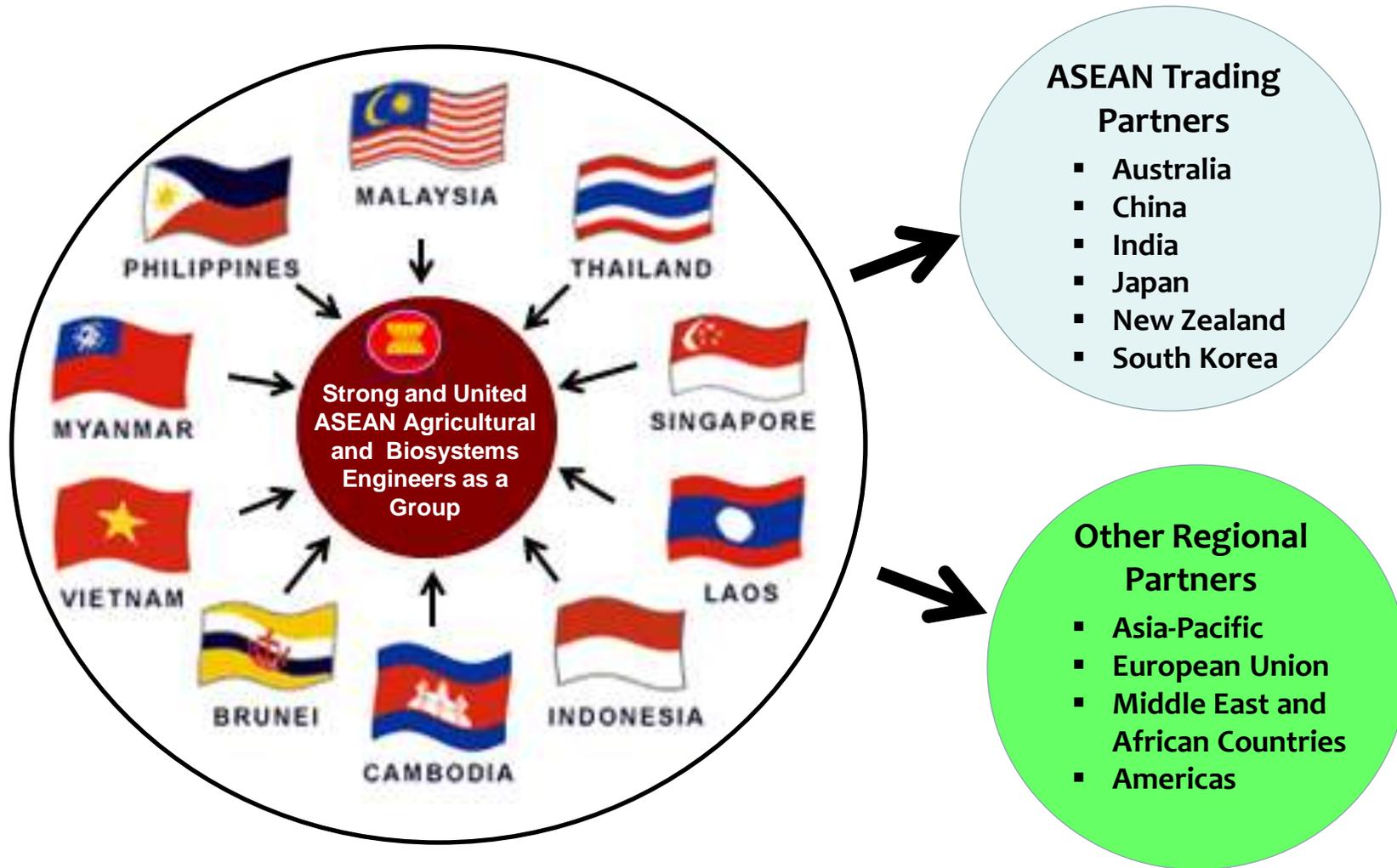
- **Organized in 2012, spearheaded by Indonesia**
- **Collaboration/ Cooperation of ASEAN Agricultural and Biosystems Engineering Education and R & D**

Implementation Updates

ASEAN Mutual Recognition Arrangement (MRA) on Engineering Services



- *Accreditation of ASEAN Chartered Professional Engineer (ACPE)*
- *Includes Agricultural and Biosystems Engineering, Philippines has 3 ACPE*



The Vision for ASEAN Agricultural and Biosystems Engineers



Thank you