



# Resilience Building of Agriculture in ASEAN



*Imelda Bacudo*  
*GIZ and ASEAN Climate Resilience Network*  
*2017 APEC Climate Symposium*

# Southeast Asia and Climate Change

## Vulnerabilities

Long coastlines  
Heavy reliance on agriculture, fisheries, forestry and other natural resources

## CC Threats

Temperature increase  
Erratic rainfall patterns  
Extreme climatic events  
Impact on ecosystem, livelihood and many other aspects of the society



# ASEAN Cooperation in Food, Agriculture and Forestry 2016–2025 *Strategic Plan*

## Strategic Thrust 4

Climate change and its impacts on FAF sector in ASEAN Member States ( appropriate agricultural practices, building competencies, providing access to financial resources and enhancing regional and international cooperation.

## Strategic Thrust 6

promote and protect ASEAN interests at international governance frameworks

Five Work Areas to advance the scaling up of CSA practices

- *Knowledge Management*
  - *Project Support for Scaling-up CSA Practices*
  - *Funding*
  - *Capacity Building*
  - *Joint Policy Statement and Protocol*
- 
- ASEAN Multi-Sectoral FRAMEWORK on Climate Change (AFCC)
  - ASEAN Working Group on Climate Change



# ASEAN CLIMATE RESILIENCE NETWORK



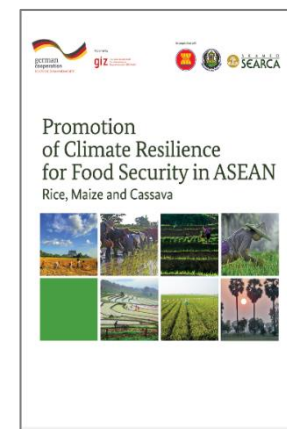
- The **ASEAN-CRN** is established to ensure that ASEAN Member States (AMS) are in a better position to adapt their agricultural sector to climate change and optimize its mitigation potential.
- promotes a **common understanding** on climate change and agriculture within ASEAN
- promotes resiliency of agriculture within the region, through the **scaling-up** of identified CSA practices
- identifies common concerns and capacity needs and propose **regional support strategies** and instruments to address these in a coherent manner; and
- supports **ASEAN decision-making** and implementation processes



# FOUNDATION

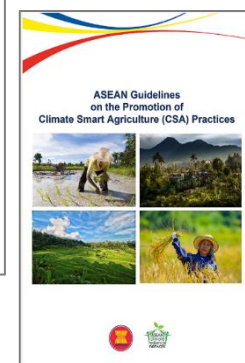
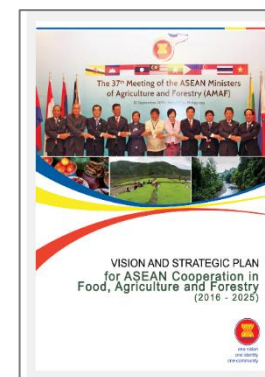
## The ASEAN-CRN developed from:

- Initiative of Thailand – Proposal to the ASEAN Technical Working Group on Agricultural Research and Development
  - Production System Approach for Sustainable Productivity and Enhanced Resilience to Climate Change
  - Process of National Studies on the Promotion of Climate Resilience for Food Security in ASEAN



## The ASEAN-CRN implements the:

- ASEAN Guidelines on the Promotion of Climate Smart Agriculture (CSA) Practices
- Vision and Strategic Plan for Food, Agriculture and Forestry (2016-2025) – Strategic Thrusts 4 and 6





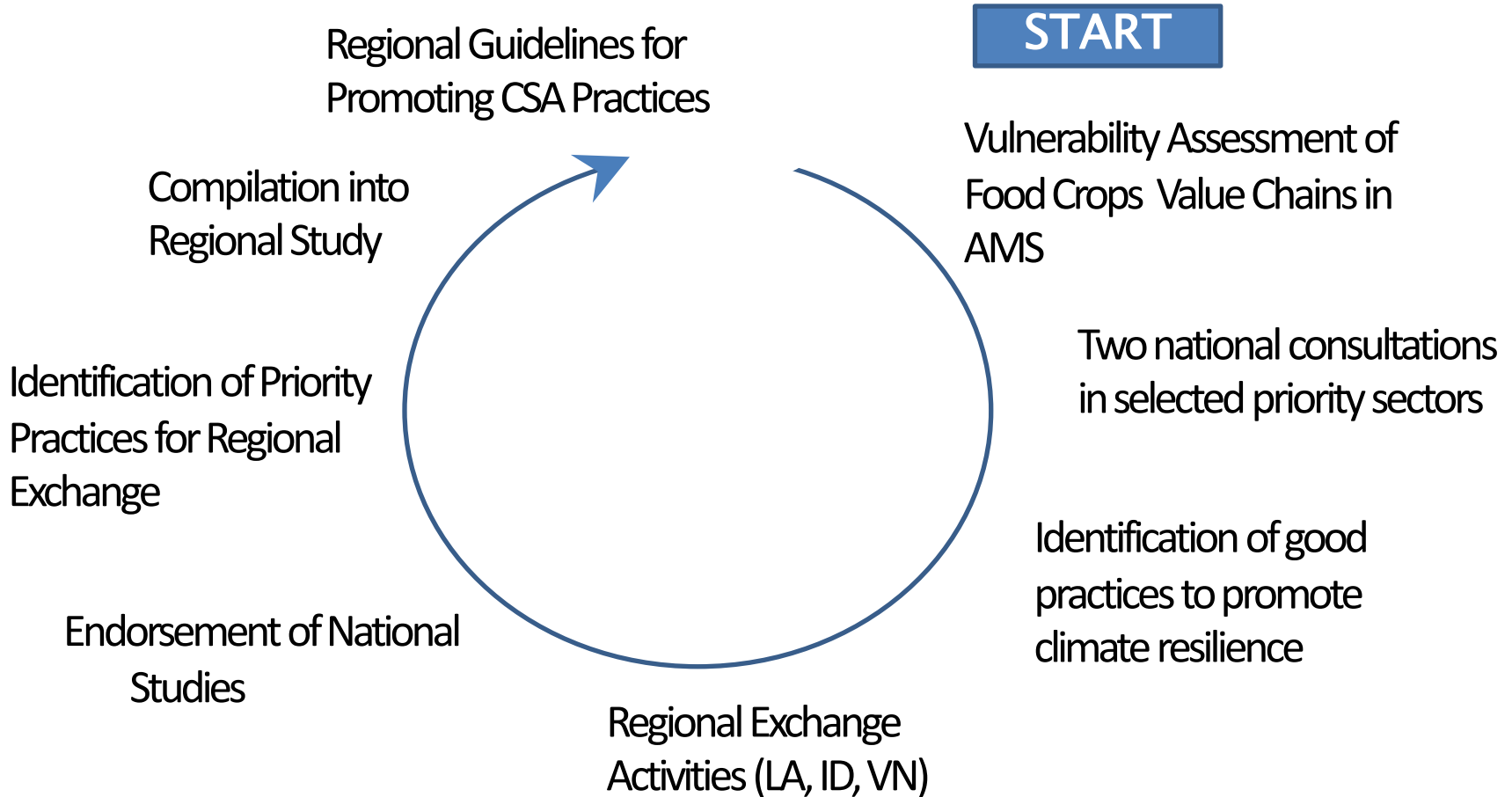
# ROLE and TASKS of CRN

The ASEAN-CRN acts as a platform to:

- Strengthen regional cooperation, facilitate **knowledge exchange**, mutual learning and **capacity building**
- Provide evidence-based **policy recommendations**, protocols and guidelines on the promotion of CSA
- **Mobilize resources** and build partnerships, to develop and coordinate collaborative initiatives (incl. climate finance)
- Involve relevant stakeholders such as private sector, academia and the research community to develop **partnerships**



# Identification





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**giz**  
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SEAHEO  
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# Promotion of Climate Resilience for Food Security in ASEAN Rice, Maize and Cassava



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## Promotion of Climate Resilience in Rice and Cassava Cambodia National Study



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## Promotion of Climate Resilience in Rice and Maize Indonesia National Study



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## Promotion of Climate Resilience in Rice and Maize Thailand National Study





# Priority PRACTICES

Practices prioritized for regional exchange:

<p>Cropping calendar AWD, stress-tolerant varieties</p>	<p>Stress-tolerant varieties, crop diversification/ model farming, best crop management practices</p>	<p>Dynamic cropping calendar, new varieties, crop insurance (WIBI)</p>	<p>Crop diversification, post-harvest technologies, Thai smallholder seed production</p>	<p>Cropping calendar, drought-tolerant varieties, water use efficiency</p>
<p>Climate-resilient varieties, AWD, SSNM, proper post-harvest technologies</p>	<p>Climate-ready varieties, crop diversification, cropping calendar, rice-shrimp farming</p>	<p>Cropping calendar, stress-tolerant varieties, Remote Sensing-based Information and Insurance for Crops in Emerging Economies (RIICE)</p>	<p>Rice shrimp farming, crop insurance, AWD</p>	

ASEAN Regional Guidelines  
for Promoting Climate Smart Agriculture (CSA) Practices  
Volume II



Guidelines on ASEAN Promoting Climate  
Smart Agriculture (CSA) Practices





# Progress of the ASEAN-CRN in Major Work Areas



# Mobilizing Resources

## Brunei agreements on proposal development

Packaging CSA Technologies (at landscape approach and agro-ecological vulnerabilities) Upland, lowland, deforested land, mined lands, peat lands, coastal, flood-prone

**Fund**  
(to be identified)

**Applicant/implementer**  
WFP, CIAT, CCAFS, ASEAN-CRN, IRRI, CCAFS, WOCAN, Thailand DOA, IAARD

**Proponent AMS**  
Brunei, Cambodia, Lao DOA, Malaysia, Myanmar (Department of Agriculture, Yezin Agricultural University), Philippines, Vietnam

**Deadline**  
(to be identified)

A concept note will be prepared in order to match this to existing funds

→ *Concept Note for FAO Technical Cooperation Program*



# Mobilizing Resources

Brunei agreements on proposal development

Regional Exchange to advance the use of climate services for agro-advisory
<b>Fund:</b> SEI, Canadian International Development Agency (CIDA)
<b>Applicant/implementer:</b> ASEAN-CRN, RIMES, IRRI, Environmental Change Institute - University of Oxford
<b>Proponent AMS:</b> Cambodia, Indonesia, Myanmar, Vietnam
<b>Deadline:</b> 30 June 2016

IRRI will write the proposal (c/o Tri Setiyono)

*→ Support provided by FOR-CC / GIZ in cooperation with FAO and CCAFS*



# Mobilizing Resources

Brunei agreements on proposal development

Regional Exchange on pilot agriculture insurance schemes in ASEAN
<b>Fund:</b> SEI, CIDA
<b>Applicant/implementer:</b> ASEAN-CRN
<b>Proponent AMS:</b> Brunei, Cambodia, Laos, Malaysia, Philippines, Vietnam, CIAT
<b>Deadline:</b> 30 June 2016

ASEAN-CRN and Vietnam will write the proposal

*→ Support provided by FOR-CC / GIZ in cooperation with FAO, SEI and G4Indo*



# Mobilizing Resources

Brunei agreements on proposal development

- Scenarios engagement process: testing current policies toward multiple futures –ECI (Oxford)

*→ Grant from BNP Paribas on Climate Modelling and Foresight for Improved Climate Governance*



# Knowledge Exchange and Capacity Building

- Regional Knowledge Exchange Events on
  - Agriculture Climate Insurance
  - Climate Information Services Services for Agriculture
  - Promoting Climate Smart Agriculture Practices
- South-South Cooperation for Capacity Building on
  - Maize Seed Village / Community Based Seed Production and Stress Tolerant Varieties (TH. LA)
  - Dynamic Cropping Calendar and Climate Services for Agro-Advisories (ID, LA)
  - Study visit of Department of Agriculture Philippines to Indonesia



# Knowledge Exchange and Capacity Building





# Effective Climate Information Services for Agriculture in ASEAN

An ASEAN-CRN Knowledge Exchange Event to Increase Climate Resilience in ASEAN



## The Agriculture Climate Insurance workshop in HCMC, August 2016: an ASEAN-CRN knowledge exchange event

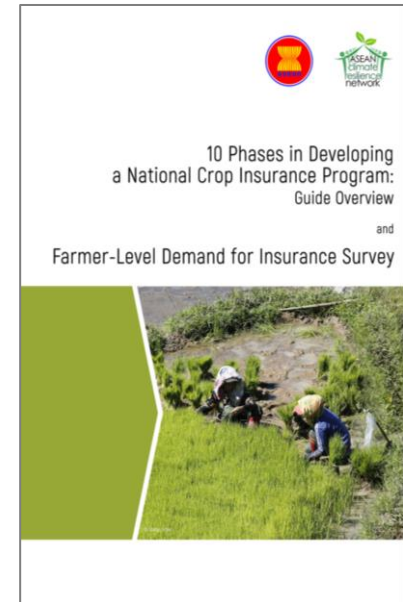
- Brought together representatives from ASEAN MOAs, MOFs and government institutions working on climate change, private sector, development partners, non-government organizations and the academe involved in agricultural insurance and climate resilience
- Exchanged experiences and knowledge on viable, pro-poor, gender sensitive and climate-responsive agriculture insurance solutions
- Discussed collaboration in the fields of regional policies and capacity building to improve farmers' access to such insurance products
- Organized by GIZ/GAP-CC, FAO, SEI and G4INDO





# Regional Policies and Engagement

- 10 Phases in Developing a National Crop Insurance Program
- ASEAN Regional Guidelines for Promoting CSA Practices Vol 1/2
- Submissions to SBSTA44 on Adaptation in Agriculture
- ASEAN Position on Issues Related to Agriculture to COP22





# Regional Policies and Engagement



Enhancing resilience of South East Asian agriculture to climate change

9 November 2016 (Wednesday) | 14:30-16:00 | EU Pavilion

Organized by:  
ASEAN Climate Resilience Network (ASEAN-CRN) and the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS)



## Background

Climate actions in the agriculture sector are a priority for ASEAN member states. This has been highlighted through joint regional submissions to the SBSTA, as well as in member states' INDCs. FAO analysis shows that ASEAN member states have identified 95 climate actions related to agriculture and land use in their INDCs. The Marrakech climate talks in November marks a major milestone for climate negotiations on agriculture, and ASEAN has been pushing for a stronger and unified representation, as demanded by ASEAN Member States such as Vietnam, Thailand and Philippines.

## Objectives

In the context of the ASEAN member states (Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam) efforts to prioritize climate actions in the agriculture sector, this side event will:

- Highlight challenges related to climate change faced by South East Asian countries
- Highlight actions at the regional and national level to respond to challenges

## Resource persons

Dr. Alice Ilaga, Philippines Department of Agriculture | Dr. Margaret Yoovatana, Thailand Department of Agriculture | Dr. Chu Van Chuong, Vietnam Ministry of Agriculture and Rural Development (MARD) | Mr. Pham Quang Huy, Vietnam MARD | Ms. Imelda Bacudo, GIZ | Dr. Peter Láderach, CIAT | Dr. Tony Ryan, University of Sheffield



RESEARCH PROGRAM ON  
Climate Change,  
Agriculture and  
Food Security



Key contacts:

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Mr. Dhanush Dinesh/CCAFS: d.dinesh@cgiar.org



# National Level Implementation of Regional Agreements

- Cambodia – Promotion of Stress Tolerant Rice Varieties
  - Stakeholder consultation on scaling-up the use of Stress Tolerant Rice Varieties
  - Testing a promising stress tolerant rice variety with communities in Preah Vihear
  - Recommendations for developing an enabling framework to increase investment in the seed sector – inputs to seed policy
- Vietnam – Next Phase of Agricultural Insurance Program
  - Support for assessing the National Agricultural Insurance Pilot Program of Vietnam
  - Recommendations on integrating the learnings into the new / next Program



# Research and Innovation

- Process of National Studies and prioritization process for regional collaboration
- Assessment of the Vietnam National Agriculture Insurance Pilot Program (NAIPP)
  - Study report
  - Policy brief
- Scoping Study on Promoting Investment in the Seed Sector in Cambodia
  - Study report
  - Policy brief

# Smallholder farmers in Cambodia successfully field-test a stress tolerant variety to adapt to climate change

<https://www.youtube.com/watch?v=TnbrwcnMQf8>





*Consensus, Consensus*  
ASEAN CRN Meeting back  
to-back with the ASEAN  
Technical Working Group  
on Agricultural Research  
and Development –  
ATWGARD Meeting (latest  
meeting: Siem Reap May  
16, 2017)



# Thank you!