

CChAMPioning Food Security and Poverty Alleviation in Southeast Asia



Maria Celeste H. Cadiz, PhD

Manager for Knowledge Management, SEARCA
mchc@agri.searca.org



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Science and Education for Agriculture and Development



Background



SEARCA is one of 20 Centers of the Southeast Asian Ministers of Education Organization or SEAMEO, a treaty organization of 11 countries founded in 1965 to promote regional cooperation in education, science, and culture.

Mandate:

Build capacities for agricultural and rural development



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SEARCA's 3 Major Functions

- To provide high quality **graduate education** and **training** in agriculture to member countries
- To promote, undertake, and coordinate **research** related to the needs and problems in agriculture of the region
- To **disseminate** the **findings** of agricultural research and experimentation



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Enabling Institutions in Agriculture and Rural Development in a Globalizing Southeast Asia: SEARCA's 9th 5-Year Plan 09-14

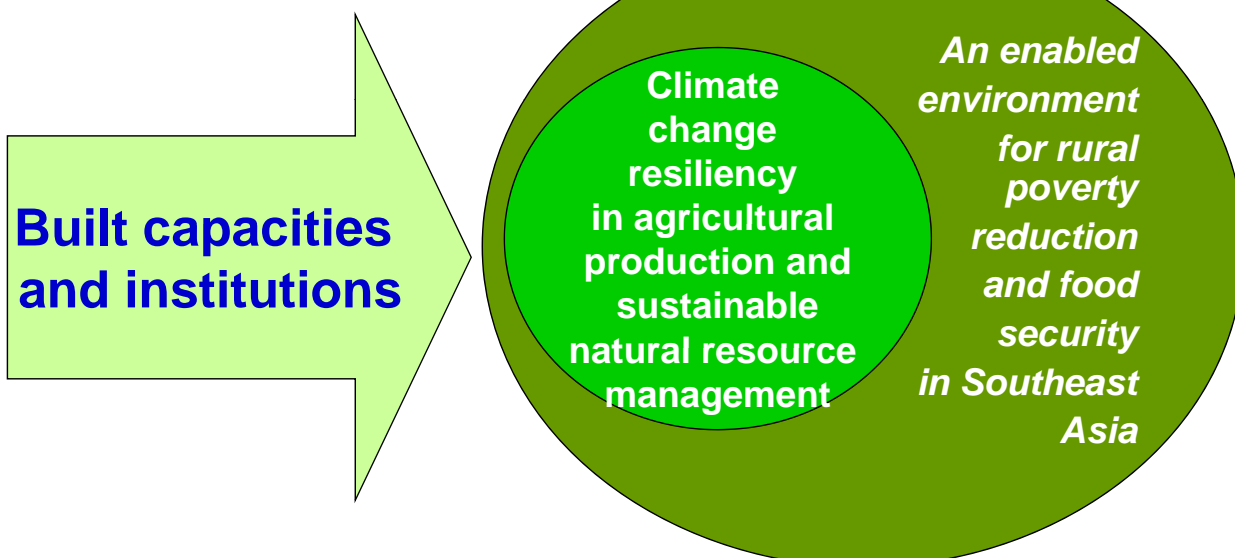


OUTCOME

An enabled environment for rural poverty reduction and food security in Southeast Asia via built capacities and institutions

SEARCA's Climate Change Adaptation and Mitigation Program (CChAMP)

for Agriculture and Natural Resource Management
in Southeast Asia



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Main Issues in CCA in ANR in SEA

- Reduced crop yields due to heat stress and drought (El Niño); and floods (La Niña)
- Inconsistent timing of production cycle due to erratic precipitation patterns also affecting life cycles of pests and diseases
- Loss of arable land due to amplified soil salinity from seawater intrusion (rising sea levels)
- Reduced aquaculture harvest due to saltwater intrusion and reduced fish catch due to coral bleaching



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Gaps/needs and Solutions

SOME GAPS/NEEDS

1. Vulnerability of climate-sensitive sectors
2. Limited access to financing and investment for CChAM
3. Limited capacity for CChAM
4. Gaps in policies and development plans
5. Translation of science-based knowledge to action

POSSIBLE SOLUTIONS

1. Appropriate and useful tools in and data management on vulnerability assessment
2. KM and capacity development on financing and CChAM
3. Policy studies, fora, and materials
4. Action research on mainstreaming



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Expected Outputs

- Empowered agriculture and natural resource institutions to address Climate Change Adaptation and Mitigation (CChAM)
- Well-informed policy and decision makers on the impact of CC in agriculture and natural resources (ANR)
- Science-based CC knowledge
- Mainstreamed CChAM in national and sub-national development plans
- Informed public and effective KM on CC in SEA



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CChAMP Components

- Research and Development
- Mainstreaming in Development Management
- Capacity Building and Knowledge Management
- Scholarships and Grants



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Research and Development

1. Seed fund for research and development activities focused on CC in SEA
2. Research projects on risk and vulnerability assessment and impacts of CC on agri-biodiversity
3. Policy studies on CC



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Mainstreaming in Development Management

- Special projects mainstreaming CChAM at regional, sub-regional, national, and sub-national levels
- Assistance to government institutions and other partners' projects addressing CChAM
- Experts database buildup



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Capacity Building and Knowledge Management

- Regional and national training programs and online courses on climate risks in ANR
- Regional CChAMP conferences, symposia, seminars, policy forums, and workshops related to ANR
- Information and resources on CC through KC3, publications, and other knowledge products



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Scholarships and Grants

- Dissertation grants addressing CC concerns
- Exchanges and cross visits of CC experts to enhance adaptation and mitigation measures in SEA
- Support for participation of graduate scholars and fellows to symposia, forums, and training courses related to CC



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Some SEARCA CCA Projects/Initiatives

1. Mainstreaming of CChAMP in Local Development Plans (EU-SEARCA Focused Food Production Assistance to Vulnerable Sectors)
2. KC3, a repository website on CCA in ANRM in SEA
3. EEPSEA-SEARCA Building Capacity to Adapt to CC: VA and Econ Analysis of Adaptation in Camb, Phil, Viet
4. IRRI-SEARCA Impact of CC on Phil Rice Sector



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Some SEARCA CCA Projects

5. Phil DA-BAR/SEARCA Capability Building on Responding to CC through R&D in Agriculture
6. Online Course on Responding to Climate Risks in ANRM in SEA
7. Residential int'l/regional learning events
 - a. International Training Course on Responding to Changing Climate: Knowledge-based Strategies for Managing Risks in Agricultural Production, Sep 2008, Nov 2009, Sep 2010
 - b. Study Tour/Writeshop on CChAM in Indonesia, Nov 2010
 - c. Environmental Leadership in CCA in SEA, 6-10 Feb 2012
 - d. Status, Impacts and Future Prospects of Agri-biotechnology in a Changing Climate: A Regional Workshop for Media Practitioners, 20-22 July 2011



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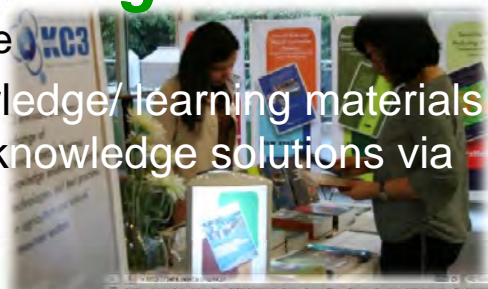
KC3 – Knowledge Center on CCA in ANRM in SEA

Promoting knowledge sharing and use

through capture, repackaging, re-use

- K-harvesting to develop knowledge/ learning materials for easier regional access to knowledge solutions via KC3 website
 - ✓ E-news
 - ✓ CCA community
 - ✓ Directories of relevant K/L resources
 - ✓ Policy briefs, primers, handbooks, etc.
 - ✓ Coming soon: community platforms

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Way forward for APAN

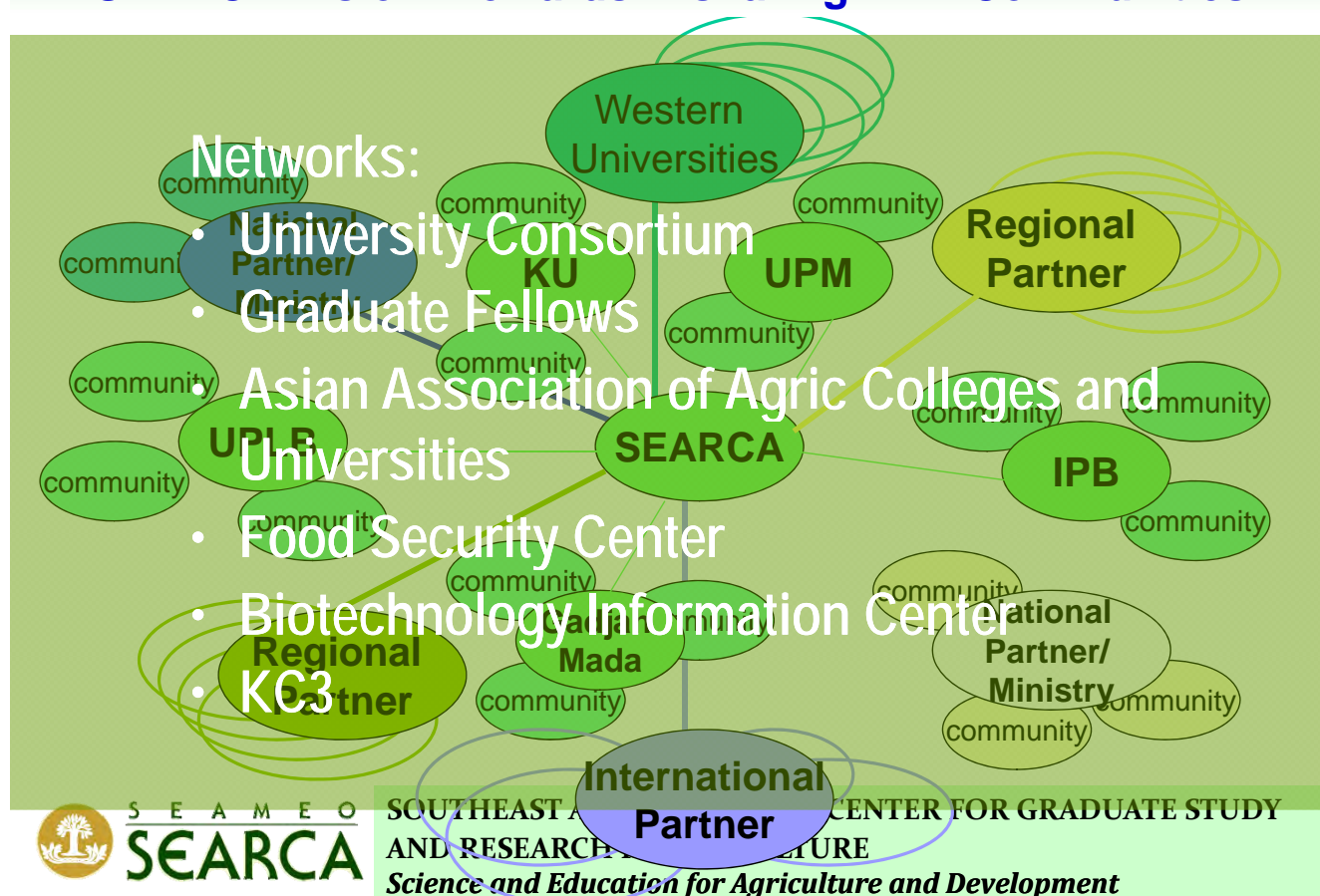
1. Regional knowledge sharing conference-workshops/writeshops on CCA
2. Grants for action research, dissertations/theses and policy studies
3. Grants/support for knowledge packaging and sharing
4. Community and platform building support (SEARCA's KC3)
5. Training scholarships/grants for regional learning events – financing CCA, mainstreaming CChAM



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SEARCA Vision: Towards K-sharing ARD Communities



KM in CChAMP for Agriculture and Rural Development in Southeast Asia

An enabled environment for rural poverty reduction and food security in Southeast Asia via built capacities and institutions in CChAMP for agriculture and NRM

- Learning events on responding to climate risks/change in agric and NRM

- Seminars - ADSS
- Conferences
- Roundtables
- *Asian Journal of Agric and Dev (AJAD)*
- Discussion paper series
- Refereed books and monographs
- Thesis/dissertation abstracts
- Etc.

Graduate Scholarship

Learning

- Professorial lectures

Knowledge creation

Knowledge sharing & use

- www.searca.org
- SEA Agriculture and development primers
- Policy, research, experience briefs
- KC3

R&D

- Research grants
- Dissertation grants
- Travel grants

GRADUATE STUDY

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Thank you for listening!
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