



INTERNATIONAL CONFERENCE 2023

A NEW PARADIGM OF LEADERSHIP & MANAGEMENT, TEACHING AND LEARNING  
IN HIGHER EDUCATION: GLOBAL AND LOCAL PERSPECTIVES AND PRACTICES

SEAMEO RETRAC, July 13-14, 2023

Sponsor  CAPILANO  
UNIVERSITY

# Reshaping Instruction, Research and Development for Higher Education Institution in SEA in Time of Pandemic

Nur Azura Adam  
Deputy Director for Program  
SEAMEO-SEARCA







Sponsor  CAPILANO UNIVERSITY

INTERNATIONAL CONFERENCE 2023

A NEW PARADIGM OF LEADERSHIP & MANAGEMENT, TEACHING AND LEARNING  
IN HIGHER EDUCATION: GLOBAL AND LOCAL PERSPECTIVES AND PRACTICES

SEAMEO RETRAC, July 13-14, 2023

## Vision

A leading enabler and champion of excellence  
in agricultural and rural development in  
Southeast Asia

## Mission

To elevate the quality of life of agricultural families  
through sustainable livelihoods and access  
to modern networks and innovative markets







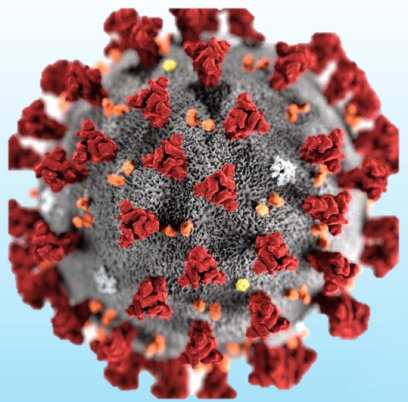
S E A M E O  
**SEARCA**



# ATTAIN

---

## ACCELERATING TRANSFORMATION THROUGH AGRICULTURAL INNOVATION



- The pandemic has underscored the connections between supply chains and our consumption patterns, and the urgent **need to redefine agricultural systems as food systems.**
- Also underscored the role of universities to produce **graduates with a transformative mindset** who are adept in understanding the growing complex social concerns and are able to effect positive change now and in the future.



# Reinforcing transformed agricultural food systems in SEA



**A T T A I N**  
ACCELERATING TRANSFORMATION THROUGH AGRICULTURAL INNOVATION

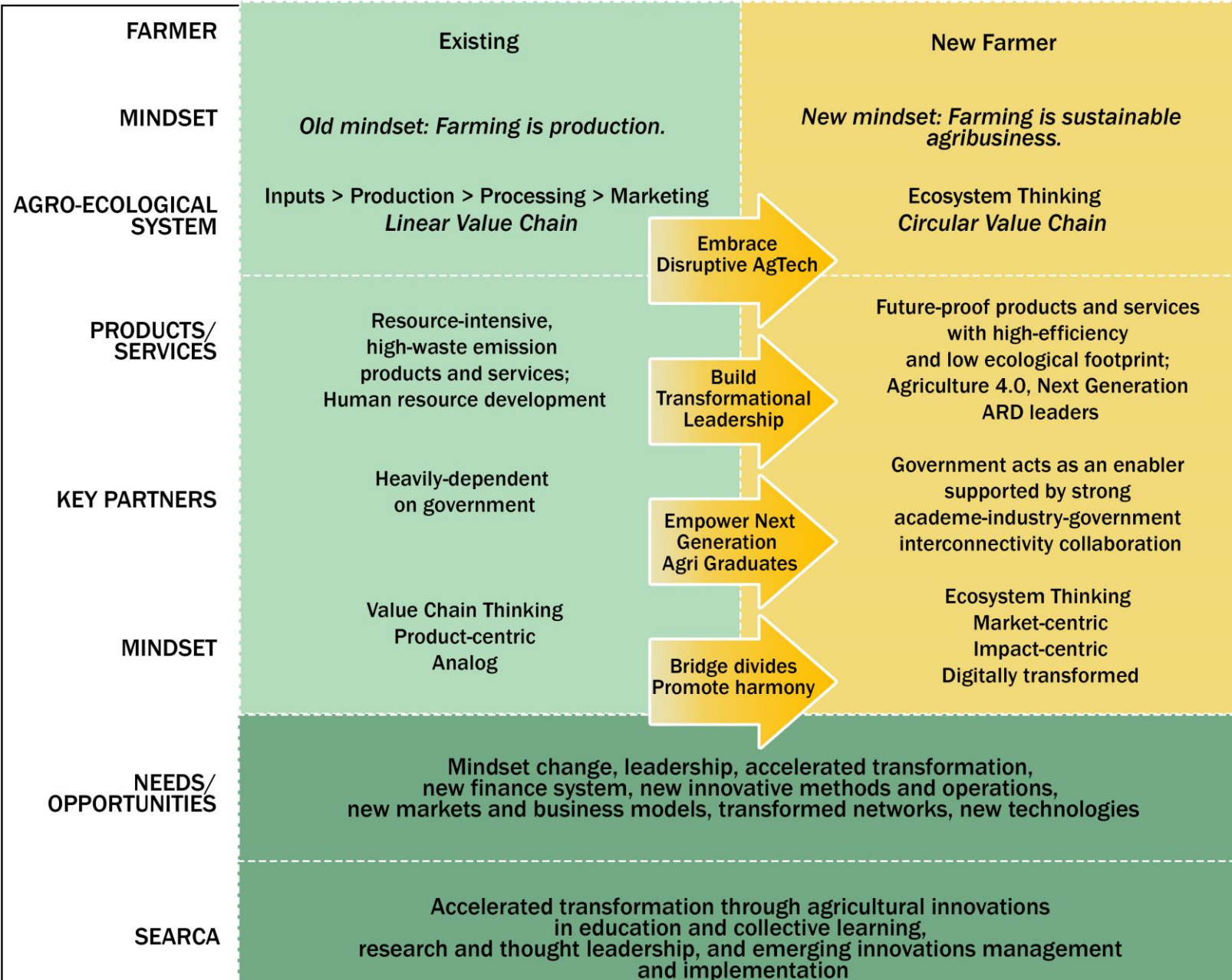
**PRESENT**



**TO**



**FUTURE**



## Questions to the Universities in this time of pandemic



What are the major priority areas for research to accelerate transformation toward sustainable agricultural food systems?



How can the human capital, like their research and academic initiatives, be fully maximized to solve the societal concern in times of pandemic



As research funding will be limited, what innovative solutions needed to enhance capability in knowledge generation?

# Capitalizing on Research for Development and Innovations Potential of Universities



**The need to support local capacity toward being self-sufficient through well-planned local food production systems.**

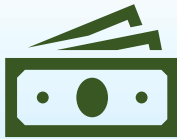


Basic research and Policy support are needed towards:

1. **Development of new and relevant crop varieties and livestock breeds**
2. **Seed and livestock production and distribution of technologies**
3. **Agricultural systems technologies**
4. **Post-harvest management**
5. **Farm produce transport and logistics systems**
6. **Facilities supporting food quality, nutrition, and safety maintenance**
7. **Diversified farming**



# Capitalizing on Research for Development and Innovations Potential of Universities



**Support more studies and activities related to improving design of financial technologies for farmers,**



**Encourage more programs and budget allocation, as well as private sector initiatives related to agriculture**



**Promotion of sustainable and responsible consumption pattern to support cleaner production, environmental conservation, and social inclusion.**



# Capitalizing on Research for Development and Innovations Potential of Universities



- The growing interest in agriculture needs to be sustained with **more targeted capacity building activities** of relevant government agencies and groups to specifically promote and generate more agri-entrepreneurs



- More **studies to ensure the balance between trade priorities and food security goals** particularly under the tenets of ASEAN Economic Cooperation.

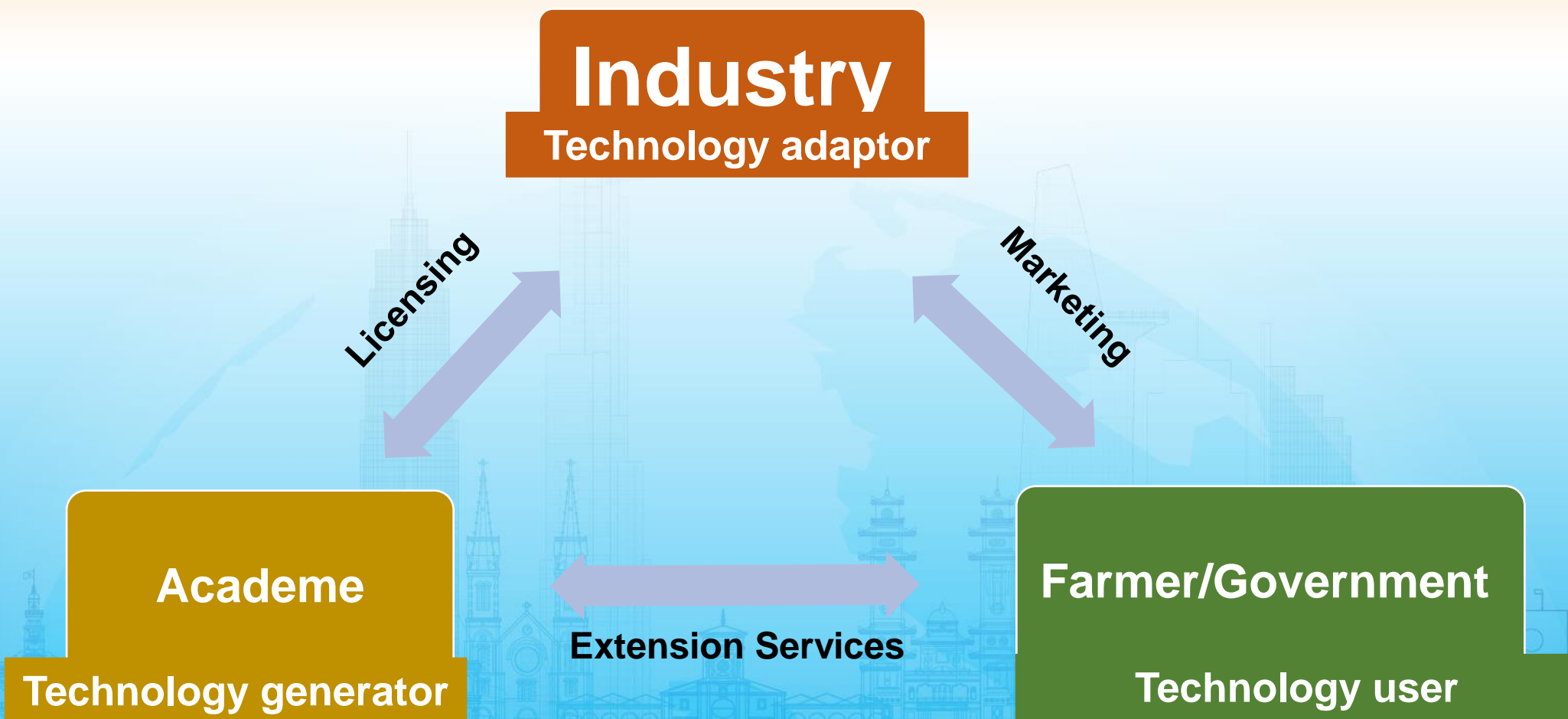
- **Effective coordination mechanisms among countries to reduce trade and food insecurities** both at the national and regional levels

## Major priorities in reshaping agricultural R&D In HEI

1. Enabling environment to engage in mutual-learning and co-learning through the establishment of multi- and inter-disciplinary research labs, centers, and institutes
2. Incentivizing scientific productivity that values beyond mere publication but also other Ps -People, Partnerships, Patents, Product, Process, and Profit
3. Retooling in application for intellectual property rights, patents, technology transfer system, technology-based incubation, and entrepreneurship
4. More grants and extension awards that enable faculty and students to engage with industry, community beneficiaries, and other stakeholders across the agricultural supply chain
5. Rearticulate COVID-19 responses for ongoing projects
6. Creative crafting of new research proposals and relate these to COVID-19



# Academe-Industry-Government (AIG) Interconnectivity Model



## Major initiatives that universities and colleges could pursue under the AIG interconnectivity model



*Strengthened collaboration for research priority identification and implementation shaped by design thinking approach*



*Resource sharing of human and financial capital to strengthen linkage between basic and applied research with the industry needs*



*Designing and implementing digital agriculture infrastructure and open innovation systems across the agricultural supply chains*



*Collaborative knowledge generation through joint publications, patenting, technology transfer systems, and business incubation*



# SEARCA established UC in 1989



To pursue agricultural human resource development in Southeast Asia by linking top agricultural universities in the region to facilitate free exchange of information, facilities, and expertise



Central Mindanao University  
Journal of Science

ISSN Print: 0116-7847 ISSN Online: 2704-3703

Food security amid the COVID-19 pandemic: research and development priorities  
for Higher Education Institutions in the Philippines and Southeast Asia

Glenn B. Gregorio<sup>1,2,3</sup> and Rico C. Ancog<sup>1,4</sup>

<sup>1</sup>Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), Laguna, Philippines

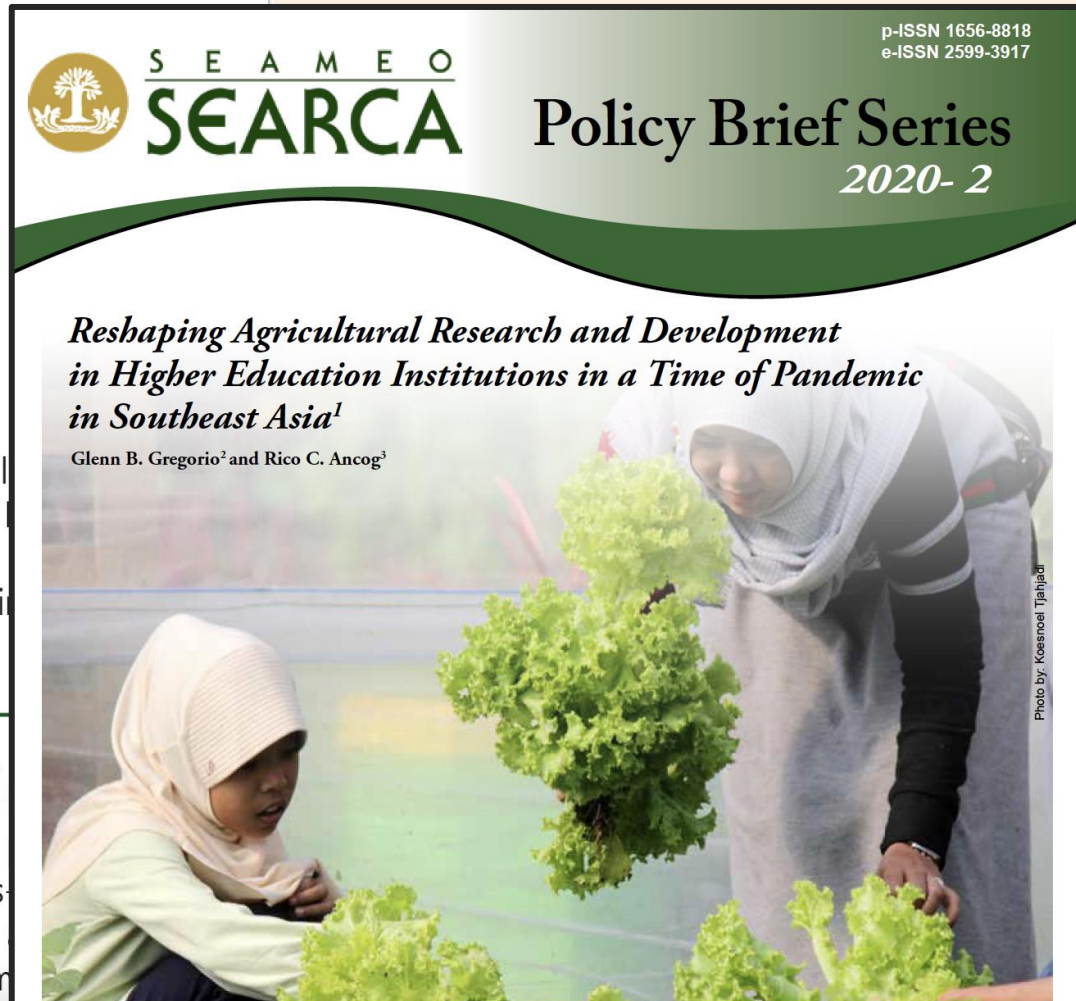
<sup>2</sup>Institute of Crop Science, College of Agriculture and Food Science, University of the Philippines Los Baños, Laguna

<sup>3</sup>National Academy of Science and Technology (NAST) Philippines

<sup>4</sup>School of Environmental Science and Management, University of the Philippines Los Baños, Philippines

Food security has long been a major development priority of all countries and will remain to be in the future. This has become all the more important in this time of COVID19 pandemic. It is achieved when there is the availability of and adequate access to sufficient, safe, and nutritious food at all times for individuals to maintain a

Agriculture has long been our ally, more must be done for us to maximize what to achieve food security targets. On the side, we need to produce more with less terms of yield, income and social inclusivity; terms of unnecessary inputs, energy consum



SEARCA Policy Brief Series 2020-2

*Reshaping Agricultural Research and Development in Higher Education Institutions in a Time of Pandemic in Southeast Asia<sup>1</sup>*

Glenn B. Gregorio<sup>2</sup> and Rico C. Ancog<sup>3</sup>

Photo by: Koenrael Tjahjard

p-ISSN 1656-8818  
e-ISSN 2599-3917





*“We are key players in society’s overall ability to achieve the aspired food security and economic development.*

*But we can aspire to go beyond that is toward an economic development that is sustainable, inclusive, environment-friendly, and most importantly, resilient to current and future pandemics”*



S E A M E O  
**SEARCA**

Southeast Asian Regional Center for Graduate Study and Research in Agriculture  
College, Los Baños, Laguna 4031, Philippines

+63 (49) 536 2554; 536 2631

post@searca.org

/seameo.searca

SEARCAseminars