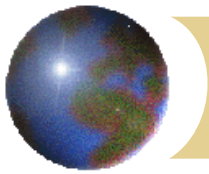


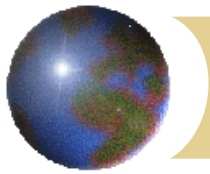
Ensuring the Relevance of Initiatives in Agriculture Higher Education

ASK Asia Workshop
21 September 2015
Czech University of Life Sciences
Prague, Czech Republic



Development Aid in Higher Education

- ⊕ Financial assistance provided for educating and training professionals and researchers should consider the growth paths of industry and the developmental needs of a nation
- ⊕ Initiatives to match Objectives of Stakeholders
 - ⊕ Necessary skills and competencies as identified by firms and government planners
 - ⊕ Motivations of and incentives for students
- ⊕ Capacity-Building to coordinate Demand and Supply
 - ⊕ National development targets and industry development
 - ⊕ Qualifications required for employability
 - ⊕ Educational choices of the potential labor force



Pursuing Agricultural Human Resource Development in Southeast Asia

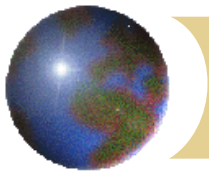
SEARCA

- ✿ Cambodia
- ✿ Indonesia
- ✿ Lao PDR
- ✿ Malaysia
- ✿ Myanmar
- ✿ Philippines
- ✿ Singapore
- ✿ Thailand
- ✿ Timor-Leste
- ✿ Vietnam

University Consortium

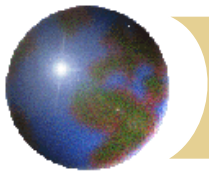
- ✿ Institut Pertanian Bogor (IPB)-Indonesia
- ✿ University of the Philippines Los Baños (UPLB)
- ✿ University Putra Malaysia (UPM)
- ✿ Gadjah Mada University
- ✿ Tokyo University of Agriculture (TUA)

- ✿ University of British Columbia (UBC)
- ✿ Georg-August-Universität Göttingen – Section for Tropical and Subtropical Agriculture and Forestry (SeTSAF)



SEARCA Umbrella Program on Food and Nutrition Security for Southeast Asia 2014-2019

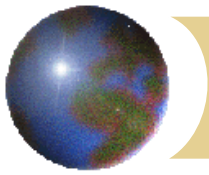
- ✿ Intended to serve as a platform for collaborative research to align programs with regional development needs
- ✿ Participatory and bottom-up approach integrating Research and development, Capacity building through graduate education and training, and Knowledge management
- ✿ Major Themes
 - ✿ Food Reserves, Trade, and Investment
 - ✿ Sustainable Food Production and Utilization Systems
 - ✿ Emerging Issues related to Food Security



*Southeast Asian Regional Center for Graduate Study and
Research in Agriculture (SEARCA)*

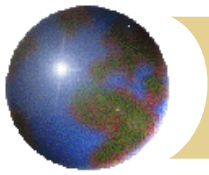
*Southeast Asian University Consortium for Graduate
Education in Agriculture and Natural Resources (UC)*

***ENHANCING HUMAN RESOURCE
DEVELOPMENT IN AGRICULTURE:
IMPERATIVES FOR REGIONAL FOOD
AND NUTRITION SECURITY***



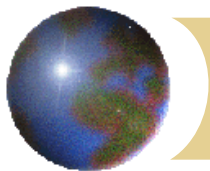
Rationale

- ⊕ Ensuring food and nutrition security requires overcoming barriers to trade and investment that lead to lower product prices for farmers and higher food prices for consumers
- ⊕ Development of human resources in the agricultural and food sectors is key, particularly in the context of an ASEAN Economic Community
 - ⊕ Declining enrolment and graduation in agriculture and related fields such as forestry, fishery, and resource management
 - ⊕ Mismatch between competencies provided by educational/training programs and professional needs of industry



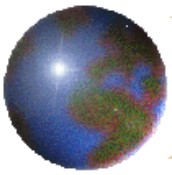
Objectives

- ✦ Analyze human resource requirements to ensure food and nutrition security in the ASEAN region
 - ✦ Examine demand and supply of human resources in agriculture and related disciplines that contribute to efforts towards food and nutrition security
- ✦ Specifically,
 - ✦ Evaluate characteristics of students and graduates in terms of socioeconomic, demographic, and educational profiles
 - ✦ Investigate employability of graduates in terms of skills, competencies, and qualifications required by firms and the economy
 - ✦ Chart the future direction of educational assistance programs and initiatives to promote food and nutrition security

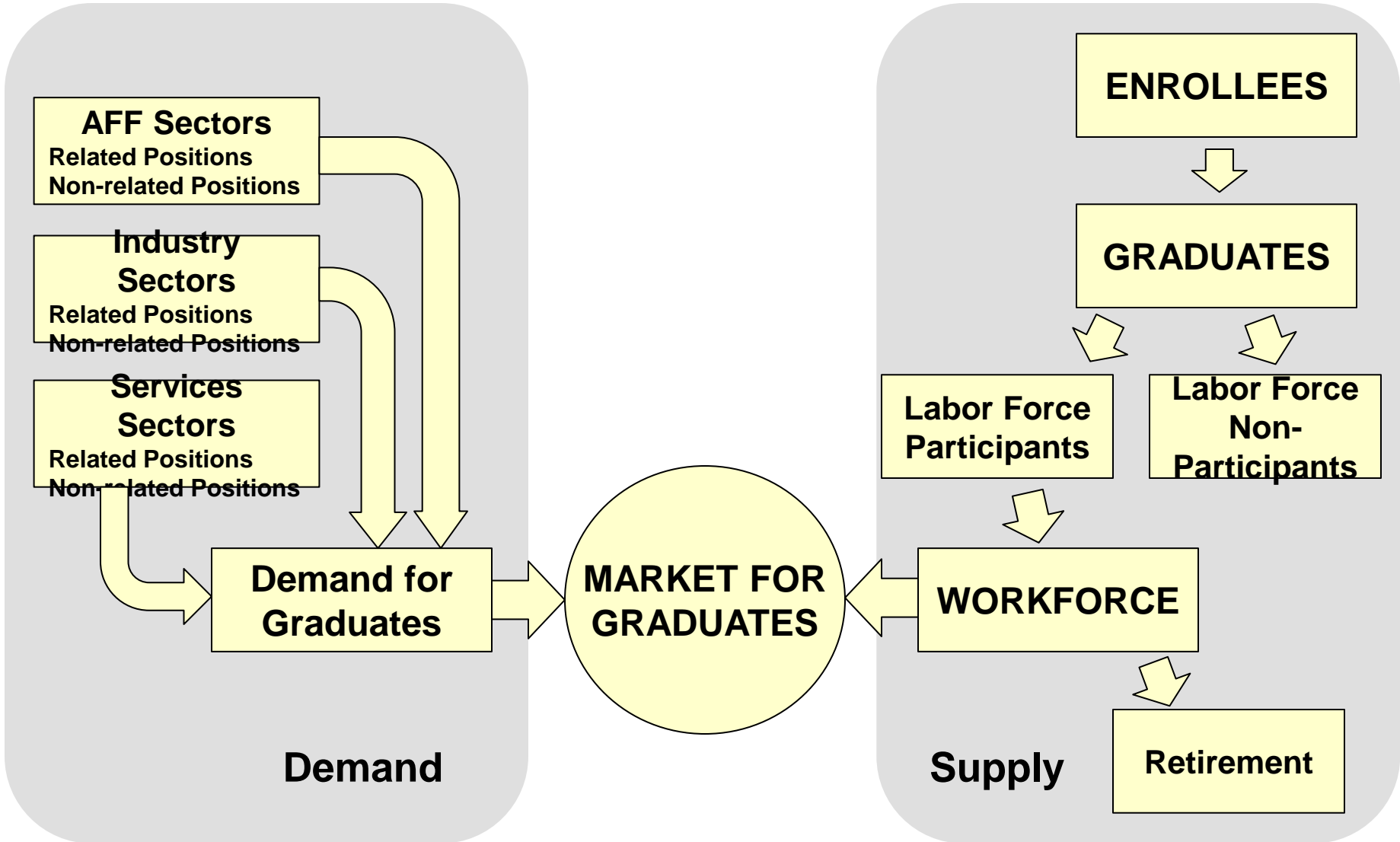


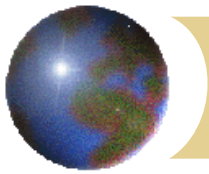
Relevant Educational Programs

Natural Sciences		Physical Sciences	Social Sciences
Agriculture	Fisheries/Fishery Technology	Agricultural Engineering	Agribusiness/ Management
Agro-forestry/ Forestry	Marine Biology	Agricultural Technology/ Agri-Biotechnology	Agricultural Education/ Rural Sociology
Animal Science/ Husbandry	Plant Breeding	Agricultural Chemistry	Agricultural Economics
Entomology/ Pest Management	Plant Pathology	Food Technology	Agricultural Extension
Environmental Science and Natural Resource Management	Veterinary Medicine	Rubber Production	Agricultural/ Development Communication
			Entrepreneurial Technology

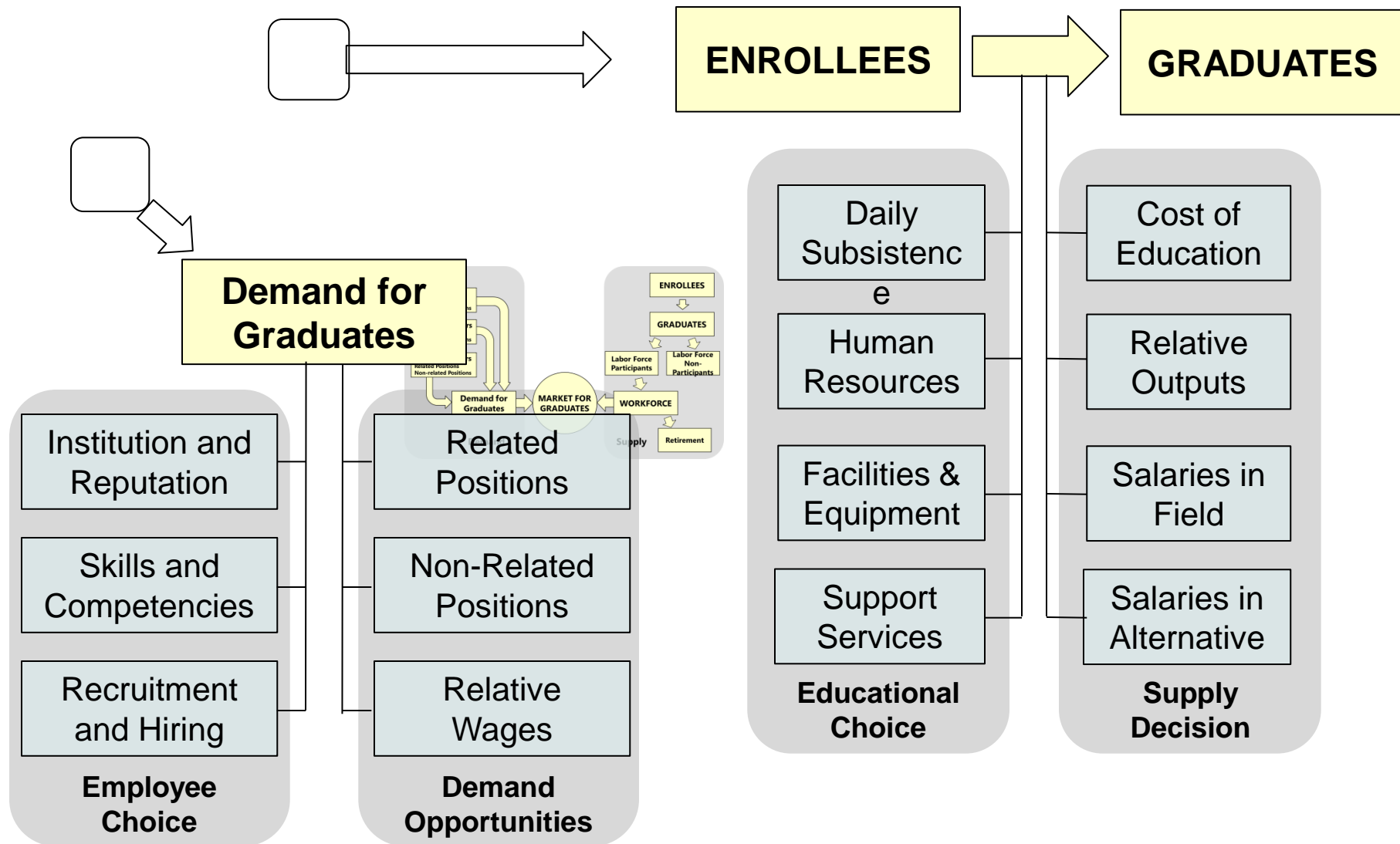


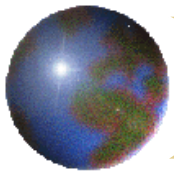
Framework





Framework





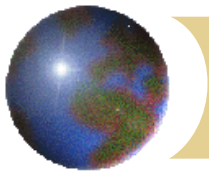
Implementation Plan

1. Environmental Scanning
and Human Resource
Inventory

2. Surveys and Database
Construction

3. Analysis of Skills Gaps and/or
Shortages

4. Proposal of Policy
Interventions



Activities (1)

ENVIRONMENTAL SCANNING & HUMAN RESOURCE INVENTORY

Identification of Institutions

National Enrolment and Graduation Trends

National Employment Trends

National Policies on Higher Education and Agriculture

University profiles

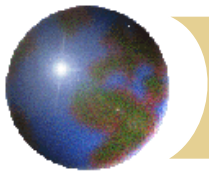
Relevant economic sectors

Identification of Programs

Enrolment and graduation data

Faculty profiles

Facilities and other resources



Activities (2)

SURVEYS AND DATABASE CONSTRUCTION

Determination of
Population

Survey Design

Survey Instrument
Development

Survey Implementation

In-school student
surveys

Graduate tracer
studies

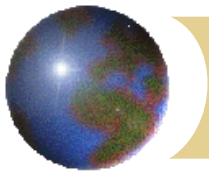
Employer surveys

Database Construction

Encoding survey
results

Data cleaning

Consolidation of
national reports



Activities (3)

ANALYSIS OF SKILLS GAPS AND/OR SHORTAGES

Model Formulation

Individual Country Projections

Comparison of Preliminary Results

Country Reports

Model and projection revisions

Formulation of content and style guidelines

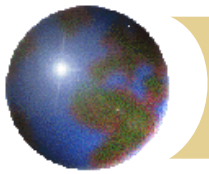
Draft country report writing

Regional Workshops

Presentation of draft country reports

Discussion on possible policy interventions

Consolidation of results



Activities (4)

PROPOSAL OF POLICY INTERVENTIONS

Consultations with
Donor Agencies

Mapping of
Educational
Assistance

Regional Workshop

Presentation of results
for validation

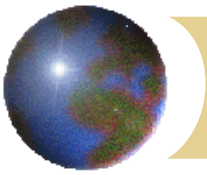
Revision of country
reports

Final Report

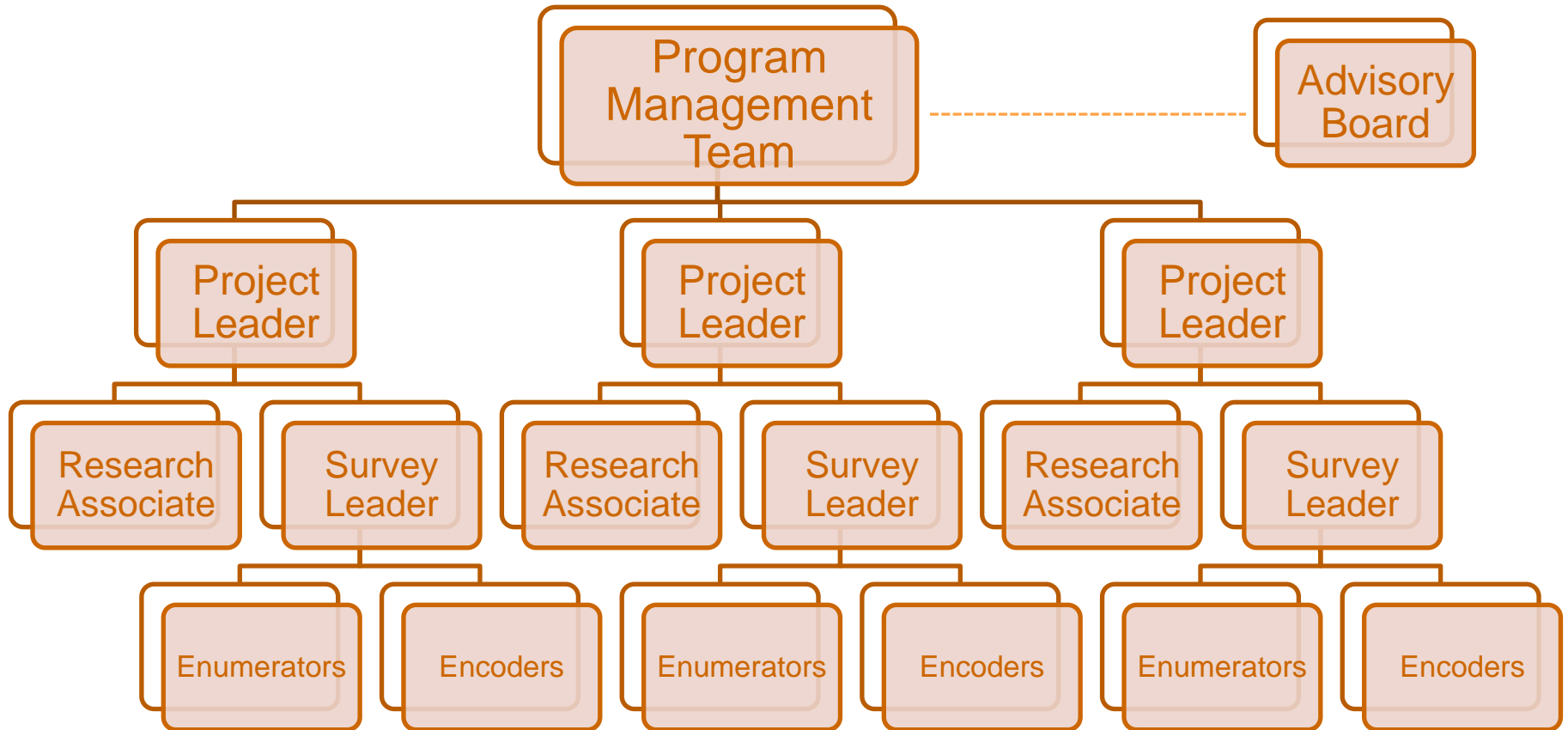
Writing and revising

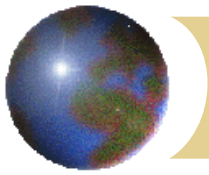
Consolidation

Final Presentation



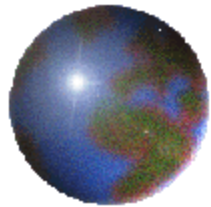
Management and Monitoring





Management and Monitoring

- ✚ Program Management Team (PMT) – UPLB
 - ✚ Lead Investigator
 - ✚ Program Manager
 - ✚ Research Associates (2) and Assistants (3)
- ✚ Advisory Board
 - ✚ Representatives of SEARCA and UC member institutions
- ✚ Project Leaders (5)
 - ✚ One per country to oversee all in-country activities
- ✚ Research Associates (5)
 - ✚ One per country to assist Project Leaders and to provide regular coordination with PMT
- ✚ Survey Leaders (5)
 - ✚ One per educational institution



Thank you

*Questions and comments
are most welcome*