



# **PHILIPPINE AGRICULTURE AND FISHERIES BIOTECHNOLOGY PROGRAMME (DA Biotech Programme)**

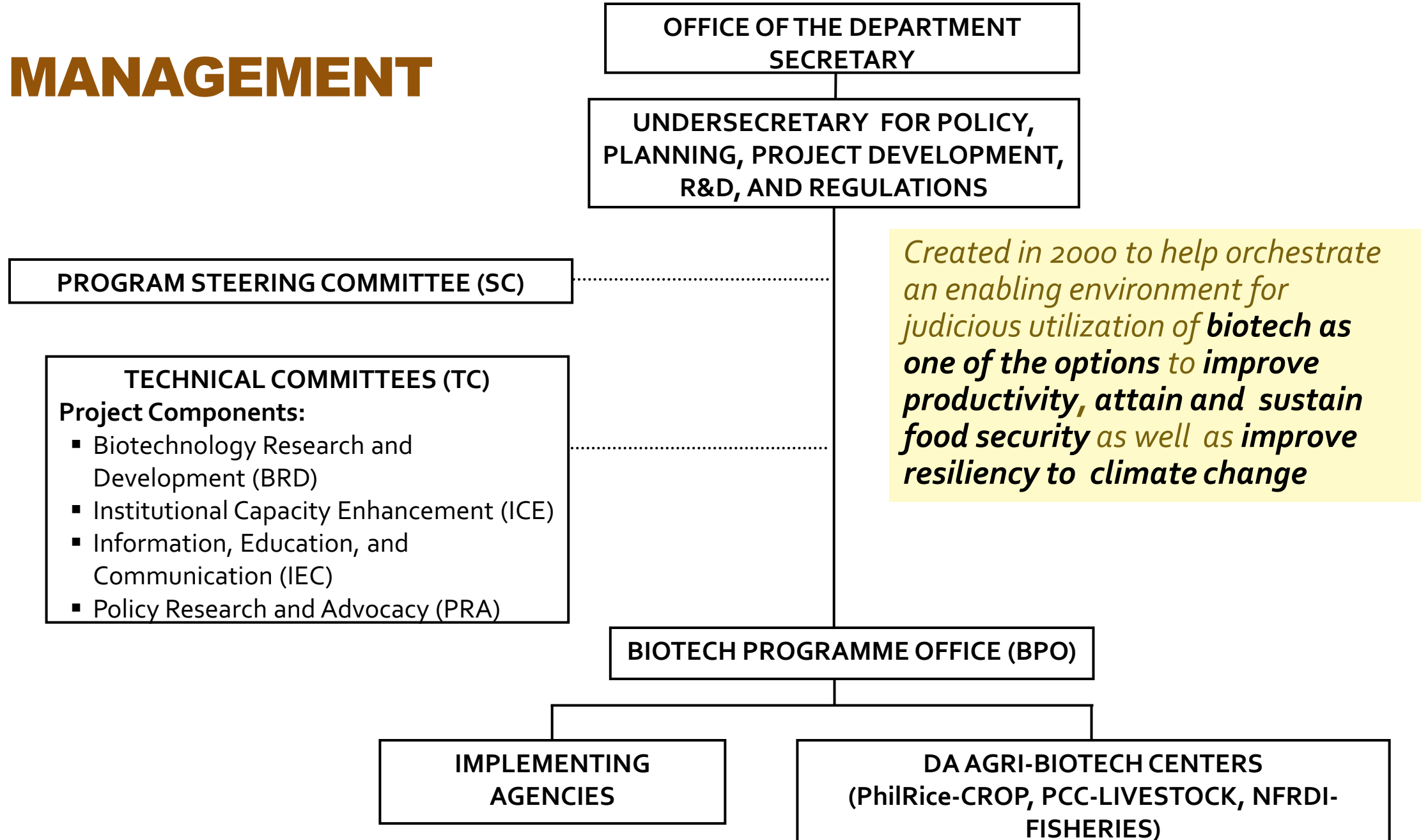
---

**Vivencio R. Mamaril, PhD**

*Director, DA Biotechnology Program Office*

Presented on June 01, 2017 at the Newton Swine and Poultry Research Initiative Call Partnering Workshop  
Bangkok, Thailand

# MANAGEMENT



# PROGRAM RDE AGENDA/THRUSTS

## Food Security



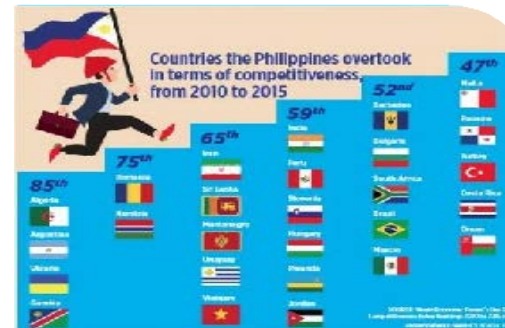
Increasing productivity, increasing incomes, improving nutritive value

## Climate Change Adaptation and Mitigation



Increasing productivity, reducing use of agrichemicals and energy, improving resource efficiency, generating products with adaptation traits

## Global Competitiveness



Increasing productivity with competitive prices, creating world market niches

## Environmental Protection



Reducing agricultural chemical use, protecting biodiversity

# RDE AGENDA IMPLEMENTATION

- Research program per priority commodity
- Call for proposals
- Writeshops to guide in filling-out of required Full Proposal format
- Regular monitoring and onsite validation of ongoing projects

# PRIORITY COMMODITIES

- **Livestock**: water buffalo, cattle, small ruminants (goat and sheep), swine and poultry
- **Crops**: abaca, rice, banana, mango, coconut, white and yellow corn, cotton, cassava, sweet potato, yam, tomato, eggplant, papaya, rubber, coffee, cacao
- **Fisheries**: milkfish, tilapia, siganids, groupers, pompano, snappers, sea bass, eels, marine fish, tuna, sardines, shrimp, freshwater prawn, mud crab, blue crab, abalone, scallops, giant clam, oyster, sea cucumbers, indigenous species, ornamental fish, and high value species

# **PRIORITY LIVESTOCK BIOTECH RESEARCH AREAS**

- **Breed Improvement**

- increased productivity (i.e., milk, meat or draft)
- disease-resistance
- climate change-resiliency

- **Animal Health, Food Safety and Quality  
Management**

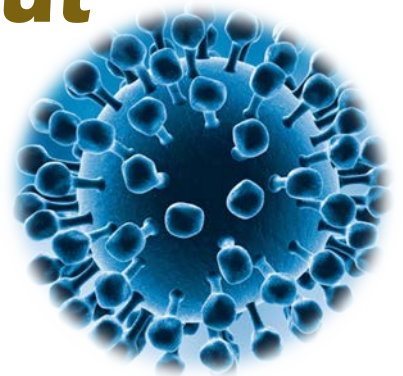
- **Product Development**

# NEWTON SWINE & POULTRY CALL

*Major Priority:* **Disease management and control**

*Desired output:*

- **Development of laboratory protocol/diagnostic kit for high-throughput detection**
- **Vaccine**



# PRIORITY SWINE PATHOGENS

- Actinobacillus pleuropneumonia (APP)
- Classical Swine Fever (Hog Cholera)
- Leptospirosis
- Porcine Circovirus 2-associated Diseases
- Porcine Epidemic Diarrhea (PED)
- Porcine Reproductive and Respiratory Syndrome (PRRS)
- Atrophic Rhinitis
- Swine Erysipelas
- Swine Influenza
- Swine Salmonellosis
- Transmissible Gastroenteritis (TGE)
- Enzootic Pneumonia
- Clostridium sp. Infection/Botulism
- Lawsonia-related diseases (Porcine Intestinal Adematosis, Hemorrhagic Enteritis, Ileitis)





# PRIORITY POULTRY PATHOGENS

- Coccidiosis
- Encephalomyelitis
- Infectious Bronchitis
- Avian Malaria
- Mycoplasmosis
- Viral Enteritis
- Salmonellosis
- Chicken Anemia
- Egg Drop Syndrome
- Fowl Pox
- Infectious Bursal Disease (Gumboro Disease)
- Infectious Coryza
- Infectious Laryngotracheitis
- Marek's Disease
- Newcastle Disease
- Pullorum Disease
- Swollen Head Syndrome
- Lymphoid Leukosis
- Chronic Respiratory Disease
- Pigeon Paramyxoviral Infection/Pigeon Pox



# INITIAL SUPPORTED WORK

- Detection of *Salmonella* in swine raw meat & meat products
- Swine Foot and Mouth Disease detection kit



# PROPOSAL ELIGIBILITY

- **Biotech research component**
- **RDE agenda alignment**
- **Implementing institutions:**
  - mandate
  - manpower and facilities

# PROPOSAL ELIGIBILITY

- **Proponent:**

- should not have more than 3 ongoing DA Biotech

Programme-supported research projects

- good research track record for the last 3 years

- all non-DA applicants should work in collaboration with

at least one concerned DA agency

- **Outputs should include:**

- Package of technology

- Publication

- Techno guide

# FUND COVERAGE

- Personnel Services
- MOOE
- Capital Outlay

*Thank you*

**DA Biotech Program Office**

2/F East Wing DA-OSEC (old) Bldg., Elliptical Rd., Diliman, Quezon City

(632) 927-0426; 922-0057

biotechpiu@gmail.com

Facebook & Twitter: DA Biotech Program