

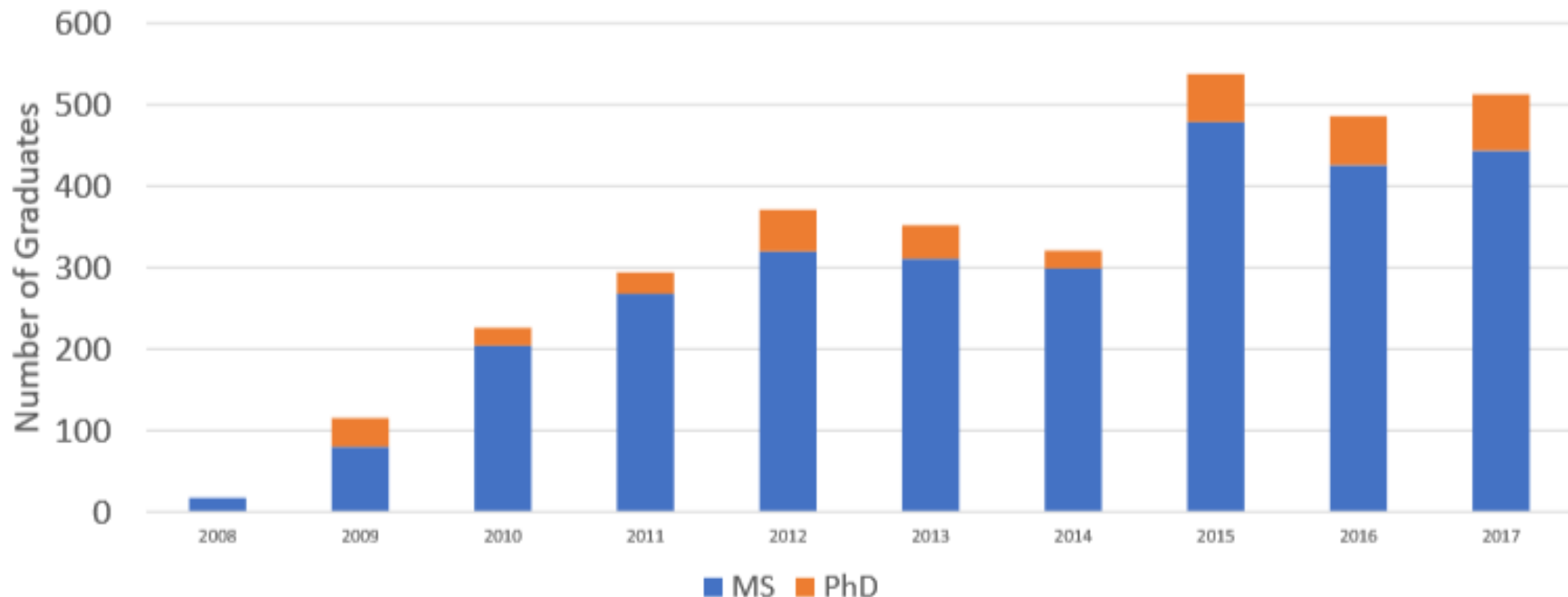
Catalyzing Academe-Industry Collaboration

East Asia Regional Policy Forum:
UK-East Asia Higher Education Partnerships for Industry Engagement
7 March 2019



ROWENA CRISTINA L. GUEVARA
Undersecretary for R&D

ASTHRDP and ERDT 2008-2017



105 Disciplines

- ASTHRDP awarded scholarships for 4,335 MS and 889 PhD
- ASTHRDP graduates: 1,982 MS and 258 PhD

26 Disciplines

- ERDT awarded scholarships 2,244 MS and 366 PhD
- ERDT graduates 894 MS and 99 PhD

CRADLE

*Collaborative Research and Development to
Leverage Philippine Economy*



**Industry to
identify a
problem**

*CRADLE Program creates synergistic relationship
between the academe and the industry with the
goal of invigorating Philippine R&D*

A **solution**
that exactly
meets the
NEED



**Partner HEI or RDI to
undertake the necessary
R&D to find solution**

Funding Structure






- Maximum funding is Php 5M
- HEI/RDI should have at least one partner company
- Partner company to provide at least 20% counterpart funding

Agriculture, Aquatic & Natural Resources

REGION	TITLE	UNIVERSITY (MAIN PROPONENT)
XI	Synergize Academe-Industry Research Undertaking to Improve Productivity through Development of Banana Diseases Surveillance System	University of Southeastern Philippines and HIJO Resources Corporations
IV-A	Micropropagation of Selected Genetically-verified, Superior Bamboo to Protect the Environment and Develop an Alternative Wood Industry	UPLB and Carolina Bamboo Garden
NCR	Development of Aquafeed from “ <i>Lab-lab</i> ”	DLSU and SANTEH Feed Corporation
XI	Fermentation and Purification Research to Produce Food Grade, Pharmaceutical-Grade and Polymer Grade Lactic Acid	UP Mindanao and Monde Nissin Corporation



FOOD and FOOD INDUSTRY

REGION	TITLE	UNIVERSITY (MAIN PROPONENT)	
NCR	Development of Chicken Egg White Powder and Granules from Low value Edible Shell Eggs	UPD and Batangas Egg Producers Cooperative	 
IV-A	Reinventing Ice Cream into a Functional Food Matrix	UPLB and Sugar and Ice Confections Inc.	 
VI	Metabolomics as Tool for the Discovery of Hypocholesterolemic Natural Products from Pineapple	University of San Agustin and Del Monte Philippines	 
NCR	Post-Treatment of Food Processing Wastewater Effluent for Nutrient Removal	ITDI and Central Macaroni Co. Inc., (CENMACO)	 

ICT and Electronics

REGION	TITLE	UNIVERSITY (MAIN PROPONENT)
NCR	PCOPEIA: Predictive Chromatography of Organic Plant Extracts with Intelligent Agents	TIP- Manila and Pascual Pharma Corp.
XI	PISOLAR: Payment Innovation for SHS Ownership by Lay Away Routine	University of Southeastern Philippines and LeadTech Inc.
NCR	Enhancement and Market Validation of Plasma Enhanced Chemical Vapor Deposition Industrial Prototype for Nitride- Based Coatings	UPD and Asian Semiconductor Electronics Technologies (ASET) Corporation
IV-A	Development of a Design Guideline Using Finite Element Analysis (FEA) for Semiconductor Packages	DLSU-Laguna and Integrated Micro-Electronics Inc (IMI)



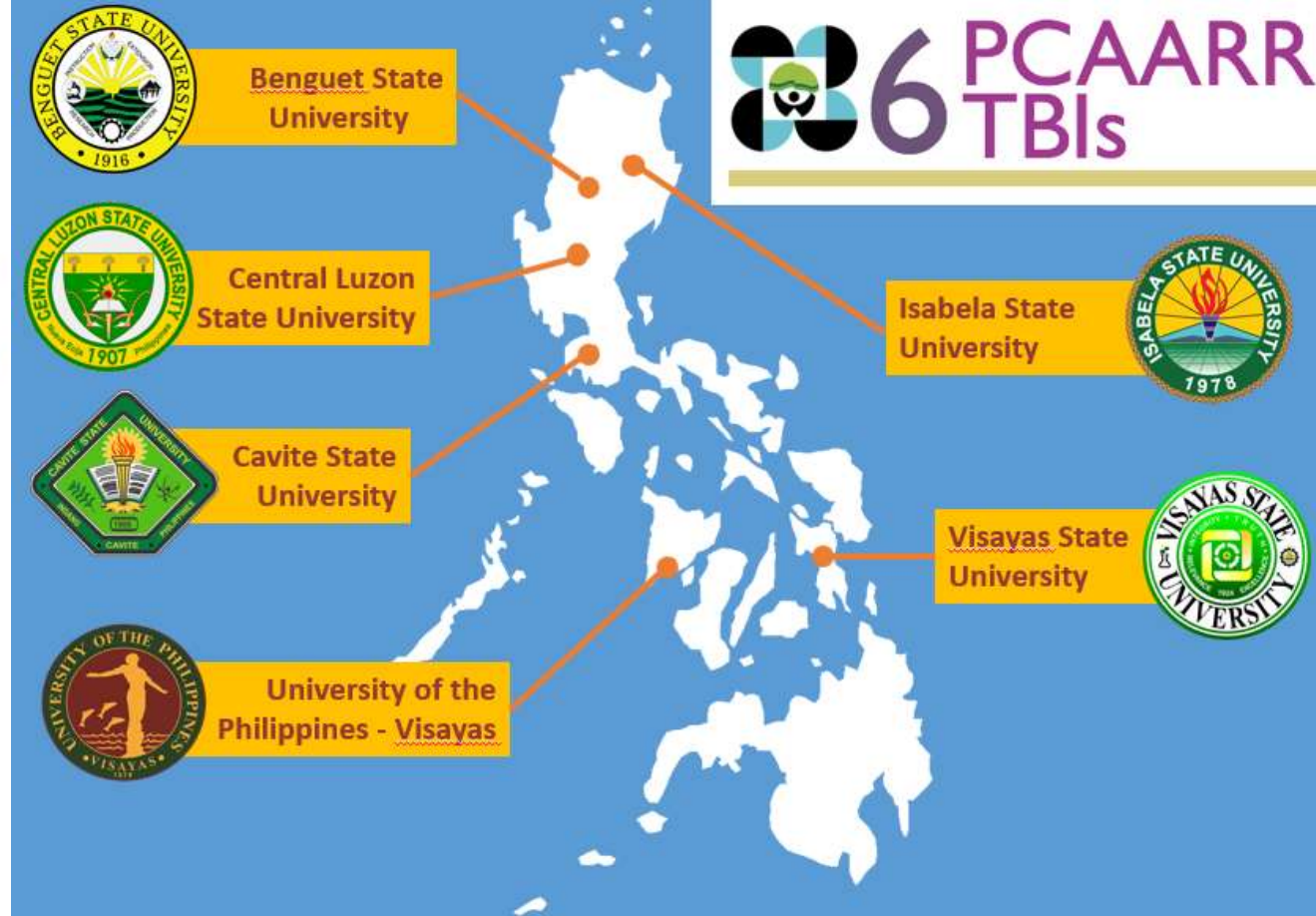
Technology Business Incubation (TBI)



14 PCIEERD TBIs



6 PCAARRD TBIs





QBO and AIM-Dado Banatao Incubators



AIM-Dado Banatao
INCUBATOR

***"Innovation is more important
than inventions. Innovation
implies industry."***

Dado Banatao
SILICON VALLEY TECH
PIONEER

In recognition
of the generous support
of our donors

DOST
DOST-PREEMO
EERGO CONTRACTS PHILIPPINES INC.
& M&M
LOLOMBE
LOCSI
WILFRIDO SYSTEMS INC.

Startups and Spinoffs



Easybus.ph offers real-time trip display and a self-booking kiosk

RUIROK



The First Pinoy performance bike brand



Biotek-M Aqua Kit detects dengue in a few hours

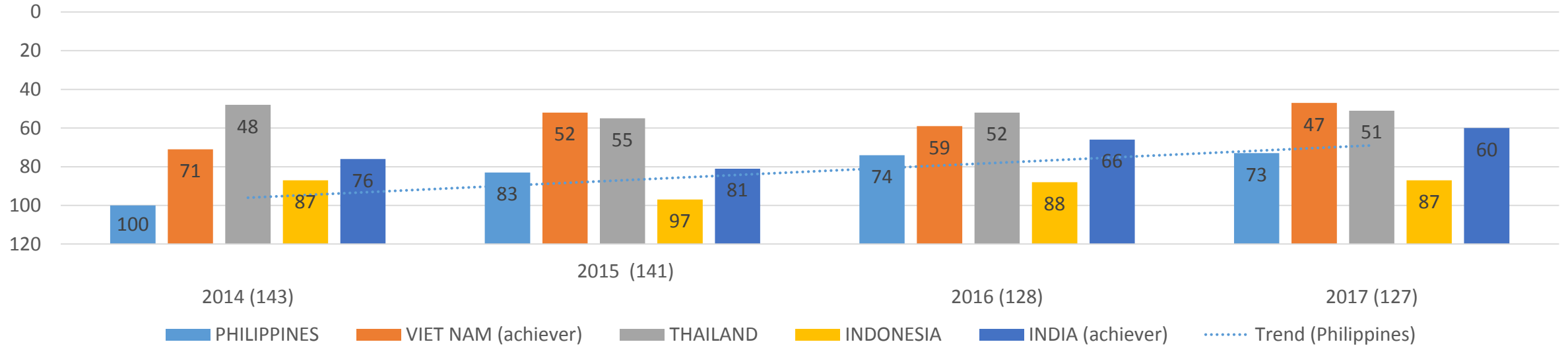


Innovation Drivers in the Investment Priority Plan 2017-2019



- Research and development activities
- Clinical trials (including drug trials)
- Centers of Excellence (e.g., academic and medical facilities)
- Innovation centers
- Business incubation hubs
- Fablabs/co-working spaces
- Shared Service Facility for MSMEs
- **Commercialization of new and emerging technologies and products of DOST or government-funded R&D**

Global Innovation Index 2017



STRENGTHS:

graduates in science & engineering (#27);

trade, competition & market scale (27);

firms offering formal training (9);

research talent (8);

high & medium high-tech manufactures (18);

ICT services exports (16)

WEAKNESSES:

ease of starting a business (#120);

education (#113);

expenditure on education (#106);

government expenditure/pupil (#99);

pupil-teacher ratio (#99);

tertiary inbound mobility (#105)

global R&D Companies (#43)

scientific & technical articles (#120);

new businesses/th population (#92);

creative goods & services (#115),

online creativity (92)

