

**WIPO 3rd Regional Conference for Presidents and Vice-Presidents of Universities and Research Institutions on Creating an Enabling Intellectual Property (IP) Environment for Technology Development, Management and Commercialization**

## ***Panel 3: Accelerating University Technology to the Market***

***- from JICA's International Cooperation Experience -***

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**AUN/SEED-Net**



**ASEAN University Network**

**Southeast Asia Engineering Education Development Network Project**

## Achievement by Phase 3

- (1) Improvement of Quality of Academic Staff  
**1,392 Master and PhD scholarship**
- (2) Improvement of Quality of Research  
**211 Research Projects**
- (3) Mobility/Network  
**More than 700 Trips** (Research Fellowship, Short-term Research Program in Japan, Short-term Visit Program in ASEAN, Japanese Professor Dispatch Program)

## Project Purpose of Phase 4

The network of AUN/SEED-Net among member countries is well maintained and expanded.

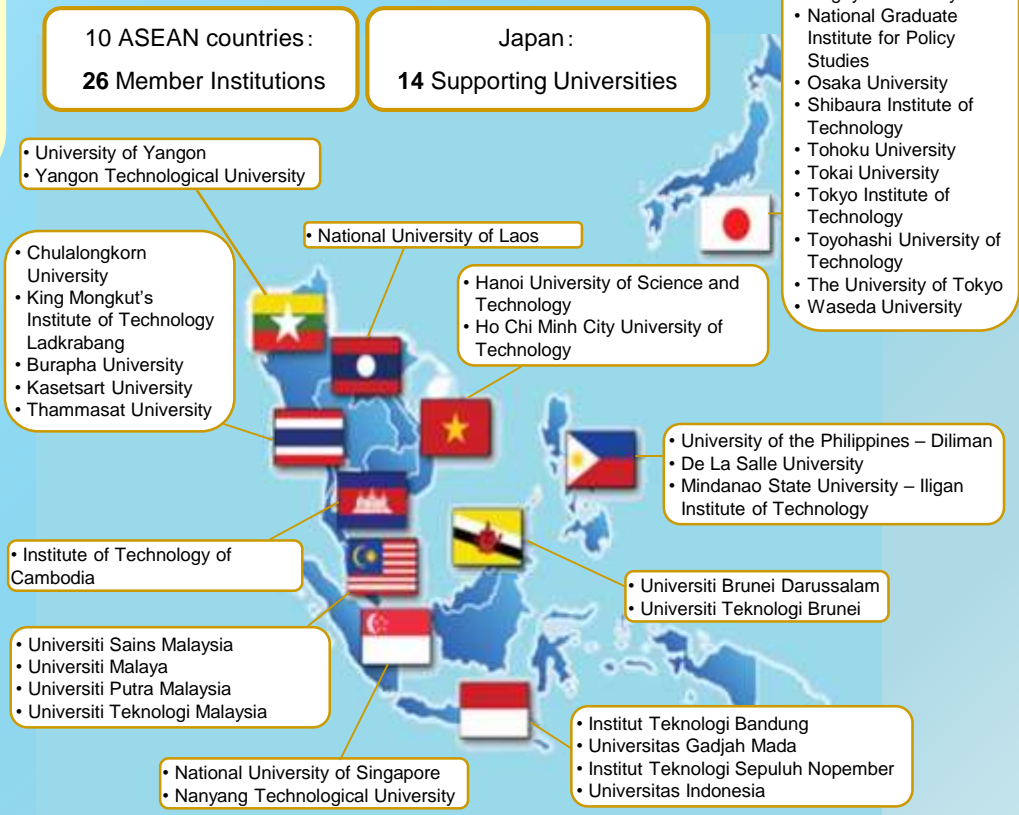
**Networks among Member Institutions (MIs), Industry and community are strengthened**

**Research and educational capacity of MIs is enhanced through collaboration among MIs/Japanese Supporting Universities (JSUs)**

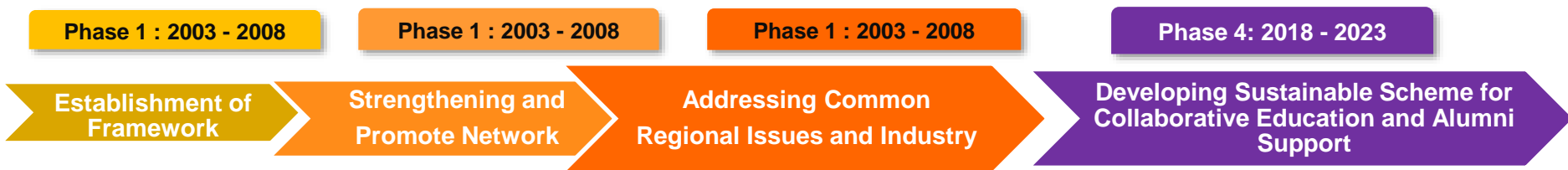
**Joint research is promoted for solving regional issues**

**Academic network among MIs/JSUs is strengthened and expanded**

## Network of 40 Engineering Universities in ASEAN and Japan



## Project Timeline



## Network of 40 Engineering Universities in ASEAN and Japan

10 ASEAN countries :  
**26 Member Institutions**

Japan :  
**14 Supporting Universities**

- University of Yangon
- Yangon Technological University

- National University of Laos

- Chulalongkorn University
- King Mongkut's Institute of Technology Ladkrabang
- Burapha University
- Kasetsart University
- Thammasat University

- Hanoi University of Science and Technology
- Ho Chi Minh City University of Technology

- Institute of Technology of Cambodia

- University of the Philippines – Diliman
- De La Salle University
- Mindanao State University – Iligan Institute of Technology

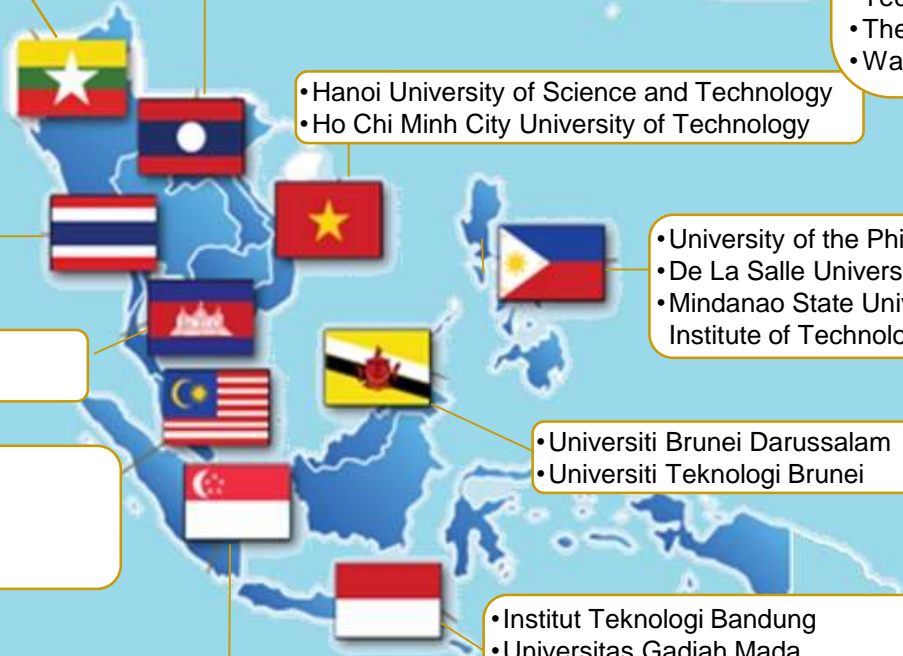
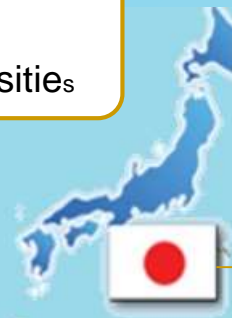
- Universiti Sains Malaysia
- Universiti Malaya
- Universiti Putra Malaysia
- Universiti Teknologi Malaysia

- Universiti Brunei Darussalam
- Universiti Teknologi Brunei

- National University of Singapore
- Nanyang Technological University

- Institut Teknologi Bandung
- Universitas Gadjah Mada
- Institut Teknologi Sepuluh Nopember
- Universitas Indonesia

- Hokkaido University
- Keio University
- Kyoto University
- Kyushu University
- Nagoya University
- National Graduate Institute for Policy Studies
- Osaka University
- Shibaura Institute of Technology
- Tohoku University
- Tokai University
- Tokyo Institute of Technology
- Toyohashi University of Technology
- The University of Tokyo
- Waseda University



# ASEAN University Network/ Southeast Asia Engineering Education Development Network (AUN/SEED-Net Project)

## Project Purpose & 4 Main Objectives

### **Capacity Development of academic staff of Member Universities**

Scholarship and Research programs for faculty staff

### **Addressing common regional issues**

Research conducted which addresses common issues in the region

A region-wide system for advanced research and education will be established by Member Universities, in collaboration with Japanese Supporting Universities.

### **Academic networking among Member Universities in ASEAN and Japan**

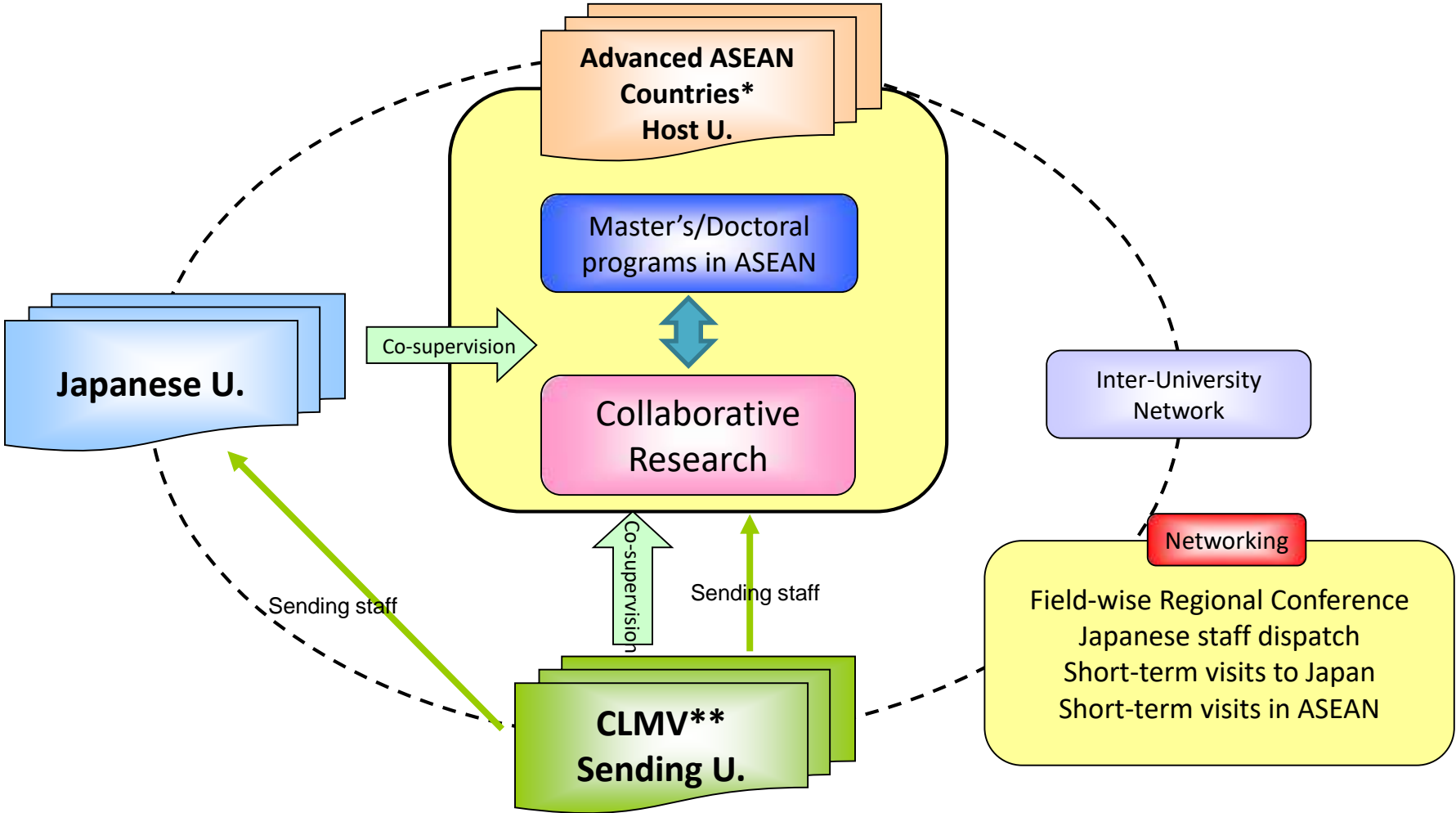
Other academic activities among universities in ASEAN and Japan (e.g. organizing conferences, publicizing an academic journal, exchange of faculty staff, etc.)

### **Linkage between universities and industry**

Strengthen the linkage between industrial sectors and Member Universities

# Framework of AUN/SEED-Net

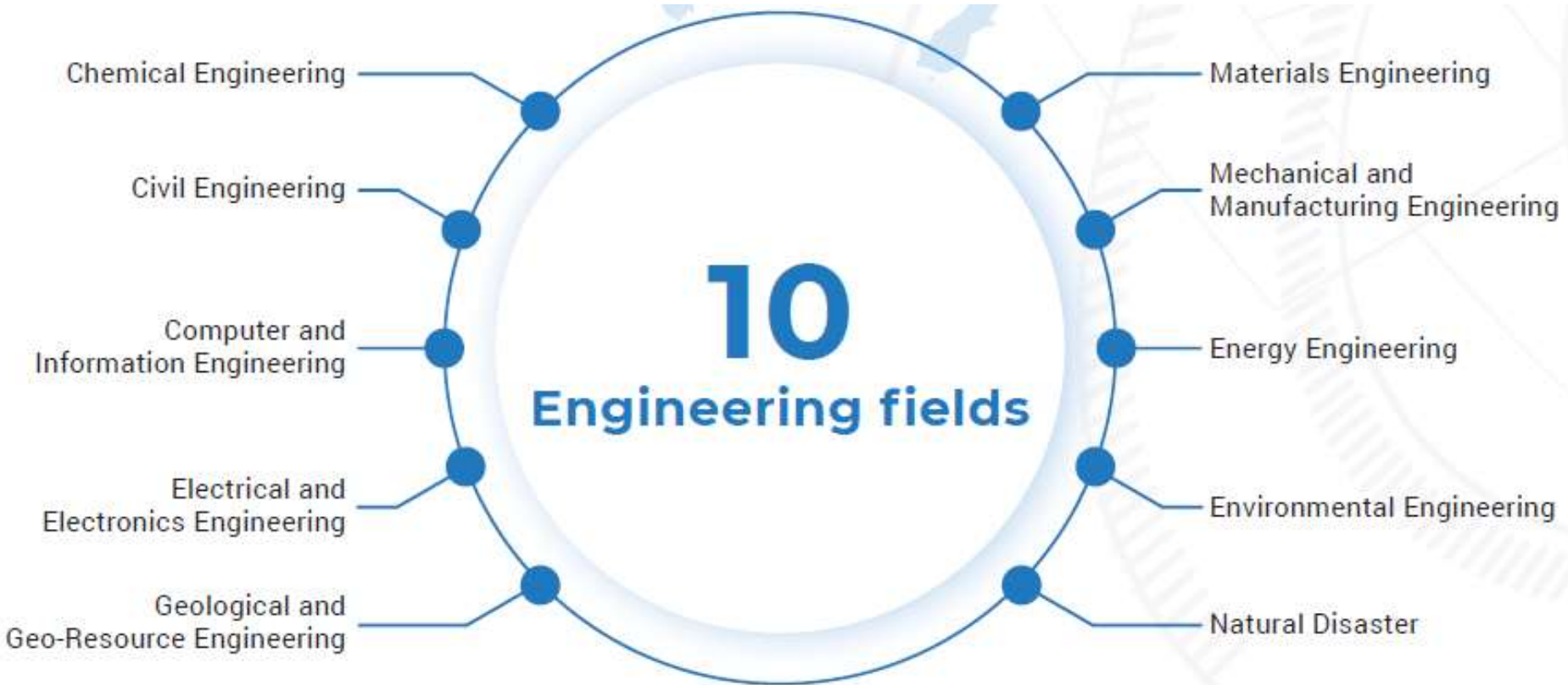
Master's/Doctoral Programs + Collaborative Research + Networking



\* Advanced ASEAN countries: Indonesia, Malaysia, Philippines, Singapore & Thailand

\*\* CLMV: Cambodia, Laos, Myanmar & Vietnam

# 10 Engineering fields



# University-Industry Linkage portal site

<http://seed-net-ui.org>



## UNIVERSITY-INDUSTRY LINKAGE

Search 

UNIVERSITY PARTNER :: INVESTMENT OPPORTUNITY :: SERVICE & BENEFIT :: UNIVERSITY-INDUSTRY LINKAGE LIBRARY



Looking for  
University Partner

For those who are seeking research partners /  
technical seeds in university



Looking for  
Investment Opportunity

For those who are seeking investment opportunity to  
the collaborative research with university

"Seeds in Engineering to Contribute to the Future ASEAN with Your Business"

Photo : Courtesy from Member Institutions of AUN/SEED-Net



Welcome to the university-industry linkage portal under SEED-Net Web. This site aims to help you in finding your research partners from our member universities in ASEAN as well as applying for financial opportunities for collaborative researches.

Source: AUC/SEED-Net - JICA (2018)





UNIVERSITY PARTNER

INVESTMENT OPPORTUNITY

SERVICE & BENEFIT

UNIVERSITY-INDUSTRY LINKAGE LIBRARY

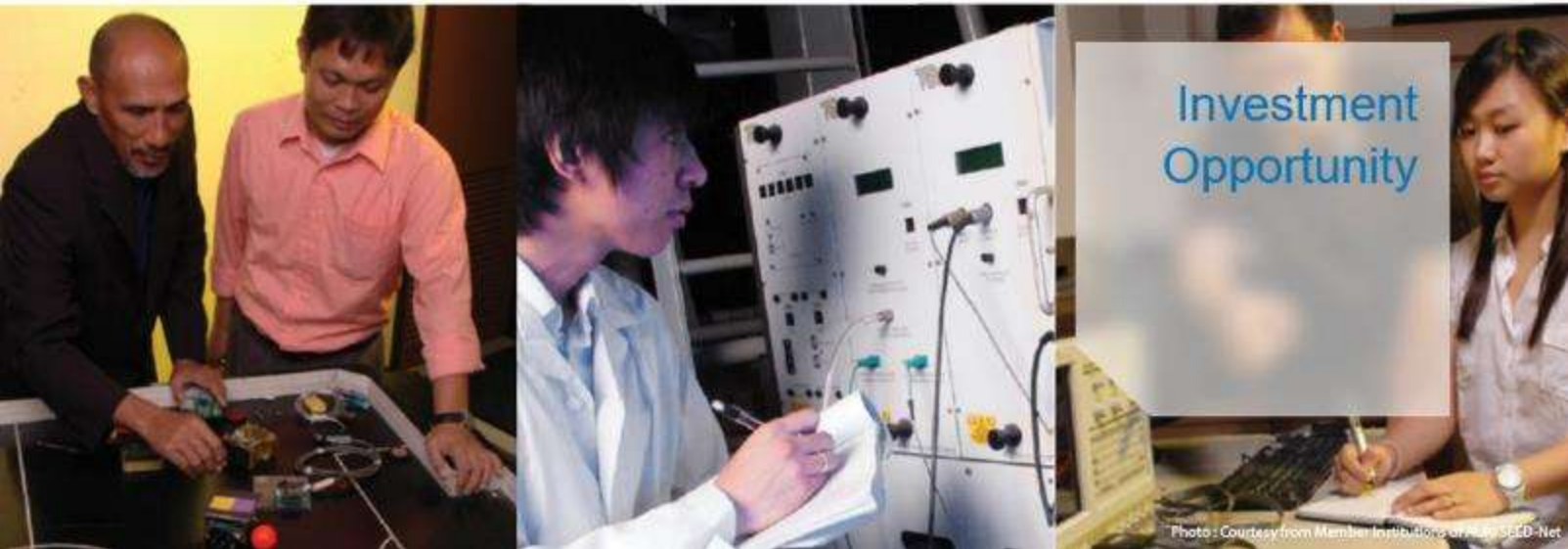


Photo : Courtesy from Member Institutions of AUN/SEED-Net

University Partner

## Directories for Engineering for each member country





# Research Programs :

## Example for Collaborative Research with Industry



Dr. Ika Dewi Ana  
Universitas Gadjah Mada, Indonesia



- Synthesis of Carbonate Apatite Composite Bone Graft, Its Degradation Profile, Cellular and Inflammation Response in Animal Model, Osteoconductivity, and Initial Clinical Trial Towards Product Spinning-off
  - Along with Professor Kunio Yoshikawa from Kyushu University who was her PhD supervisor
  - The **first ever commercialized tissue engineering product in Indonesia**.
  - Initiated product orders for bone graft distribution all over Indonesia; sold 30,000 sets in 3 months; cost down up to 1/3 of import products
  - **Assisted commercialization**; **2 patents** were already approved and 2 more are under process
- (<https://www.youtube.com/watch?v=hsuw0W5J9Z8>)

# Research Programs :

## Example for Collaborative Research with Industry



*"I was very lucky to be awarded CRI grant. I am very happy because finally as a researcher in the area of tissue engineering I can realize my dream to help my patients by tissue engineering research."*

- “GAMACHA” Commercialized material, which is used as scaffold for the regeneration of bone
- Collaboration between University of Gadjah Mada and PT. Kimia Farma

# JICA Technical Cooperation on Intellectual Property (IP) in Asia

\*Projects written in bold letters are in operation.

## Myanmar

**Advisor for Intellectual Property Administration**  
[2015-2019]

## Thailand

Industrial Property Information Center  
[1995-2000]

## Viet Nam

Modernization of Industrial Property Administration Project  
[2002-2005]  
Project for Utilization of Intellectual Property Information  
[2005-2009]  
Project for Strengthening the Enforcement of Intellectual Property Rights  
[2012-2017]

## Malaysia

Study on Enhancement of Intellectual Property Rights Administration Capacity through Utilization of Information Technology  
[2002-2005]  
Human Resource Development in the Intellectual Property Rights' Administration of MyIPO  
[2007-2010]

## China

Intellectual Property Rights Protection Project  
[2005-2010]

## Philippines

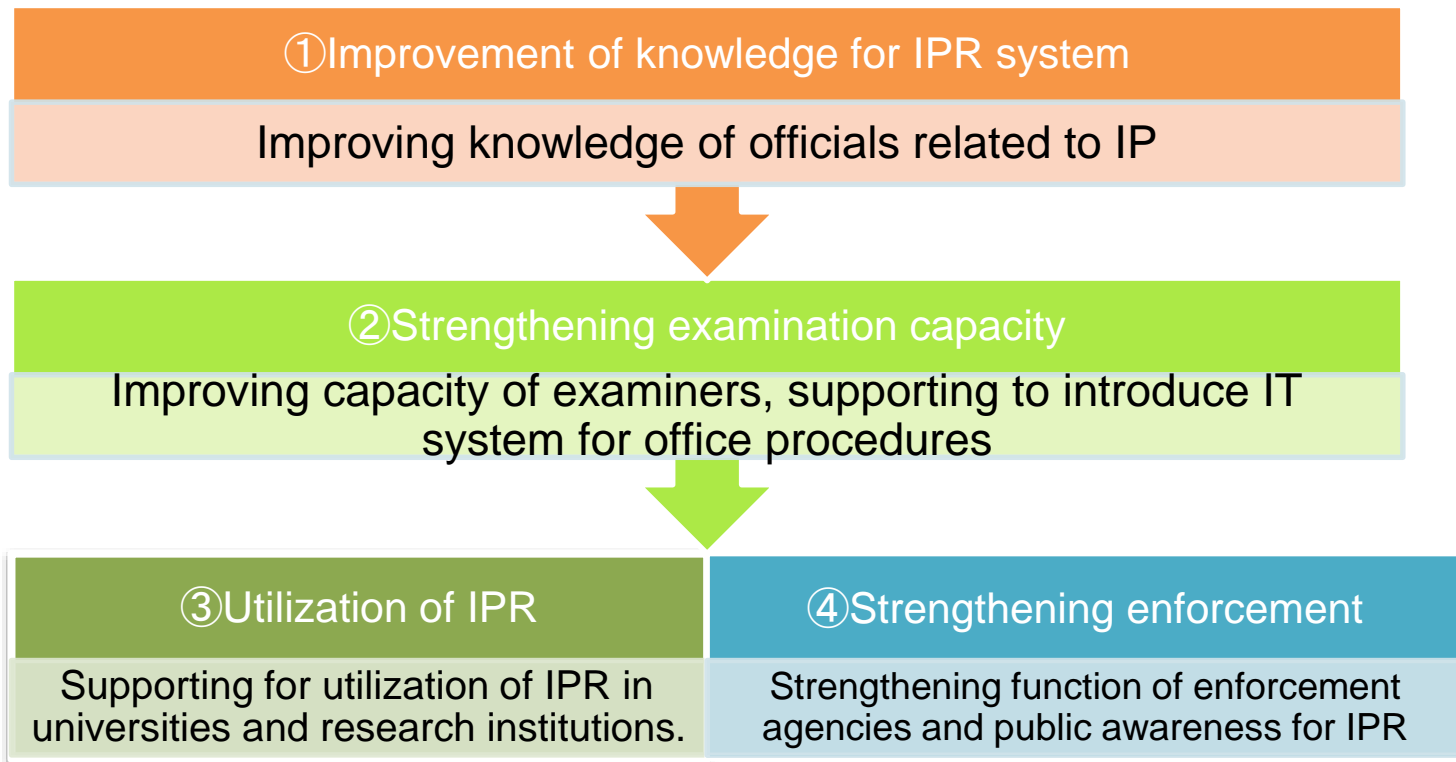
Modernization of Industrial Property Administration  
[1999-2003]  
F/U of Modernization of Industrial Property Administration  
[2004-2006]

## Indonesia

Study on Intellectual Property Rights Administration through Utilization of Information and Communication Technology  
[2005-2007]  
Industrial Property Rights Administration  
[2005-2010]  
Project for Strengthening Intellectual Property Protection  
[2011-2015]  
**Project on Intellectual Property Rights Protection and Legal Consistency for Improving Business Environment**  
[2015-2020]

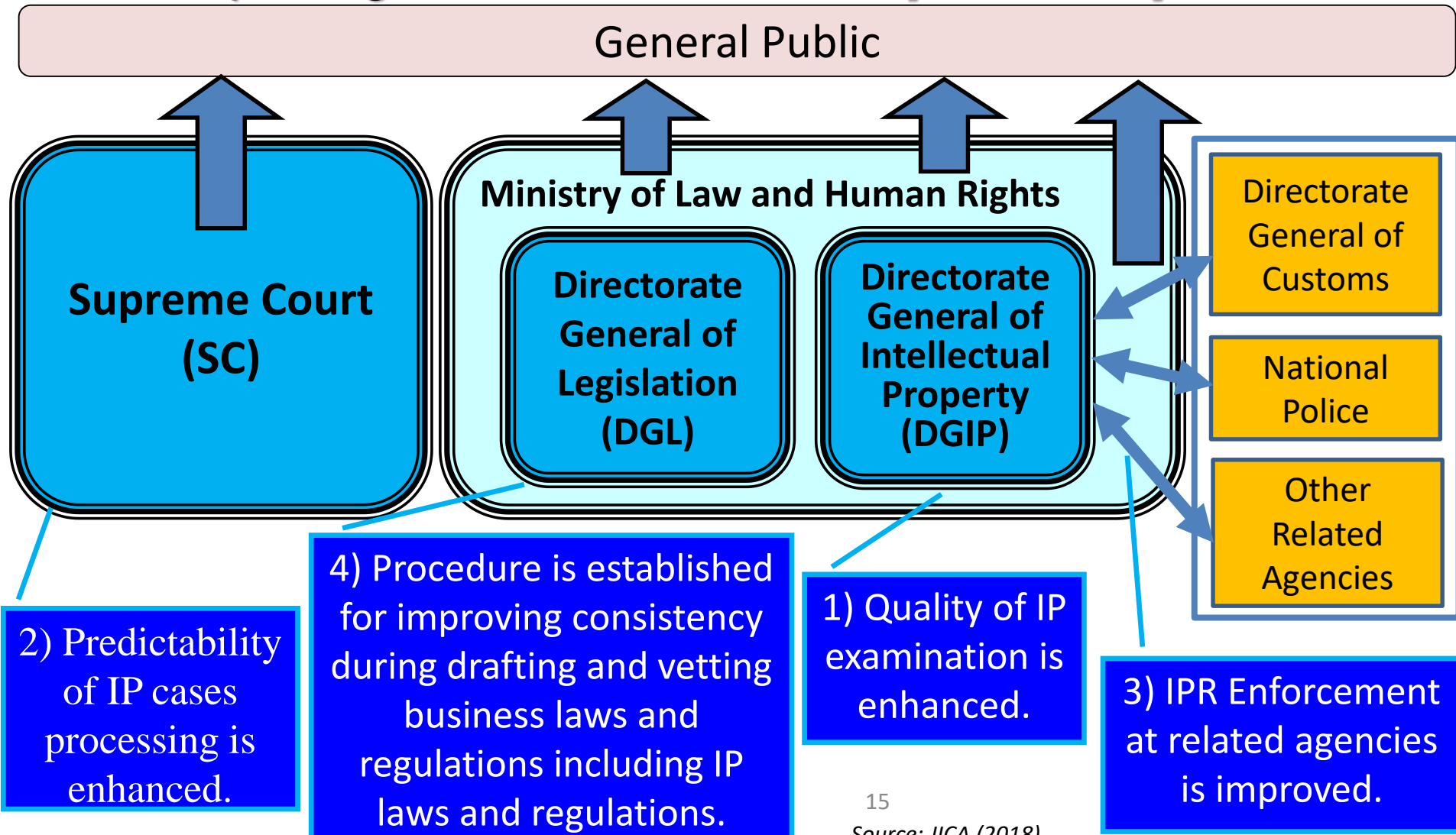
# JICA Technical Cooperation in the field of Intellectual Property (IP)

JICA normally implements technical cooperation in the following stages in cooperation with Japan Patent Office.



# IP Technical Cooperation in Indonesia

## ● Project on IPR Protection and Legal Consistency for Improving Business Environment [2015-2020]



# Technical Cooperation in Indonesia

Study Visit to Japan (various; following studies are example)

## [1] Study for PPNS (October 2017)

- Civil servant investigators from DGIP and District Offices
- Study IP enforcement of Japan



[http://www.jipa.or.jp/katsudou/kokusai\\_katsudou/171023\\_indonesia.html](http://www.jipa.or.jp/katsudou/kokusai_katsudou/171023_indonesia.html)

## [2] Study on Public Education and Awareness Rising (November 2017)

- Heads and staffs from IP related sections in DGIP and District Offices
- Learn the policies for PE&A and develop their minds of IPR



[https://www.jpo.go.jp/shoukai/soshiki/photo\\_gallery/2017103001.htm](https://www.jpo.go.jp/shoukai/soshiki/photo_gallery/2017103001.htm)



### [3] Study on IT (December 2017)

- Heads and staffs from DGIP
- JPO's experiences of IT system establishment and management for IPR

[https://www.jpo.go.jp/shoukai/soshiki/photo\\_gallery/y2017121502.htm](https://www.jpo.go.jp/shoukai/soshiki/photo_gallery/y2017121502.htm)



## Short term experts dispatched from Japan to Indonesia

Roving **Seminar** in regional cities

**“Raising Awareness on IP Management and Utilization for University & Industry and Small Medium Enterprises (SME)”**

organized by DGIP in cooperation with JICA  
in March 2017 at Lombok and Ambon



# Technical Cooperation in Japan

## Knowledge Co-Creation Program

### Training course “Improved Intellectual Property System for Promoting Direct Investment from Overseas” from 16<sup>th</sup> August 2017 to 16<sup>th</sup> September 2017

| <i>Objectives</i>  | <i>Target person</i>   | <i>Target country</i>   |
|--|--|---|
| (1) To acquire IPRs protection system<br>(2) To comprehend the Japanese system including IPRs protection/ utilization/creation<br>(3) To consider better IP system for the participants' country | (1) Officers in charge of administration, legislation, policy making, or making technical suggestions in the field of intellectual property<br>(2) More than 3 years' practical experience in IPRs field | Colombia, Iran, Laos, Myanmar, Nepal, Philippines, Tunisia, Ukarine, Congo, Egypt |

### *Outline (Topics)*

|  |  |
|--|--|
| Intellectual Property System and Economic Growth through the Promotion of Foreign Direct Investment                                      | Border control of counterfeit products /IPR infringing goods by the customs  |
| Relation between measures to IPR protection (Judiciary (civil and criminal) and Administration) and company's requests to IPR protection | Domestic control of counterfeit products /IPR infringing goods by the police |
| Measures to IPR protection in companies / IP Management  | Prior Art Search and Acceleration of IPR Examination                         |
| Measures to IPR protection in Ministries of Japan  | Human resource development/IPR Awareness Program                             |
| <u>IPR system for promoting technology transfer</u>  |  |

# Keywords/implications

ASEAN wide Engineering University Network

AUN/SEED-Net by JICA

University and Industry Linkage

Success story on university technology

commercialization

Network: JICA IP cooperation for awareness

raising for utilization



***Thank you!***

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