COLLABORATION: UNIVERSITY – INDUSTRY TO PROMOTE TECHNOLOGY TRANSFER

Presented by: Indonesia Participants

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1. Introduction

2. Collaboration and Technology Transfer
   University – Industry

3. Conclusion
Values of University and Industry

1. University:
   - Man Power for Research and Development
   - Ideas for Innovation
   - Knowledge

2. Industry:
   - Capital
   - Mass Production for Commercial
   - Ideas for Innovation

Benefit of University-Industry Collaboration

- Upgrading Knowledge and Sharing Experience for University and Industry
- The product of the collaboration of University and Industry not just commercial thing but also for People welfare
Ideas of Innovation

- Government Regulation and Law
- Government Target Achievement
- People Demand

2. Collaboration and Technology Transfer
   University – Industry
Innovation Technology Information

- Scientific and Technology Journal
- Research and Development office in the university
- University Intellectual Property Office
- University Innovation and Business Incubator Office

Problem in Innovation Technology by University

- Only Prototype model
- Cannot implemented in mass production because of capital or not economic
- Not integrated/comply with industry demand
- Need Investor to make the innovation technology being proven
- Agreement of Intellectual Property Right
Challenges and Opportunities of Innovation Technology by University

Challenges for University is to make the innovation technology became solution for human being and make benefit for investor and founder of innovation technology

Industry has Opportunities to involved with University Researcher or Commercialization of University Innovation Technology

PARTNERSHIP & SINERGY A – B - G

Government

- Policy, Regulations, Financing, etc
- Support Gov. Programs

Academic/Research Inst.

- Basic Research, Applied Research

Business

- Innovation, Knowledge, Technology Transfer
- Product Development
Government Support/Policy:

- Government Regulation Number 93/2010 Tax incentive policy for the donation given to research and development activities in Indonesia
- A company can apply restitution for Value Added Tax (VAT) of Research Expenses associated with the activities of company

Roles of Industry to Support Government Program

**BIO FARMA**:

- Core business: manufacture Human Vaccines and Antisera
- Supply Vaccine and Antisera to the Gov. of the Rep. of Indonesia for Immunization Program
1. INDIVIDUAL BENEFIT
2. SOCIAL BENEFIT
3. SUPPORT TO NATIONAL HEALTH SYSTEM

1. INDIVIDUAL BENEFIT
- Cause immunity to each individual from infectious diseases

2. SOCIAL BENEFIT
- Breaking the chain of disease transmission from children to other children or adults

3. SUPPORT TO NATIONAL HEALTH SYSTEM
- To reduce the number of treatment and care, preventing death and disability that would be a burden for society

Ref.: Antaranews, Oct 8, 2011
The Purpose of Collaboration between Industry (Bio Farma) and Universities:

- To enhance its role to the success of immunization programs
- Improving human resource capability
- Self-sufficiency in vaccine production through innovation, knowledge and technology transfer
- To produce vaccine with the high quality and safe

How to enhance academia-industry collaboration

- Existing research
- Roadmap
- Problems
- Plan of action

Ref. : Iskandar (President Director of Bio Farma)
**Successful Case**

*Water Treatment Technology*

(Patent No. ID P 0024915 and ID P 0025016)

This is the case in Indonesia based on Government Regulation and Government Target Achievement especially in pure water.

- Indonesian Government Regulation No. 16/2005 about Drinking Water and Indonesian Law No. 7/2004 about Water Conservation
- Indonesian Government MDG’s Target
- University Research in Pure Water Technology called Micro-Hydraulic
- The innovation pure water technology registered by researcher to patent institution
- Investor interested with this technology
- The collaboration came out in company establishment (PT. LAPI INOWATER), and the company have right to marketing and mass produce this technology.
PT.LAPI Indowater Water Treatment Technology in Cambodia
Coal Upgrading Technology
by Prof. Dr. Ir. Aryadi Suwono

- Patent No. ID 0016804
- The Innovation for Upgrade Coal Calorie with lower cost
- Project Development Stage: Pilot Plant sponsored by PT. PAMAPERSADA (coal company).

Source: http://ipr.itb.ac.id and http://lpik.itb.ac.id

3. Conclusion:

- Required the same vision, paradigm and perception in collaboration between university and industry to generate innovation, knowledge and technology.
Thank You!