



COLLABORATION : UNIVERSITY – INDUSTRY TO PROMOTE TECHNOLOGY TRANSFER

Presented by : Indonesia Participants

*WIPO Regional Forum on University –
Industry Collaboration to Promote
Technology Transfer
Hanoi, November 2 – 4, 2011*



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

Policy, Regulations,
Financing, etc

Government

Support
Gov. Programs

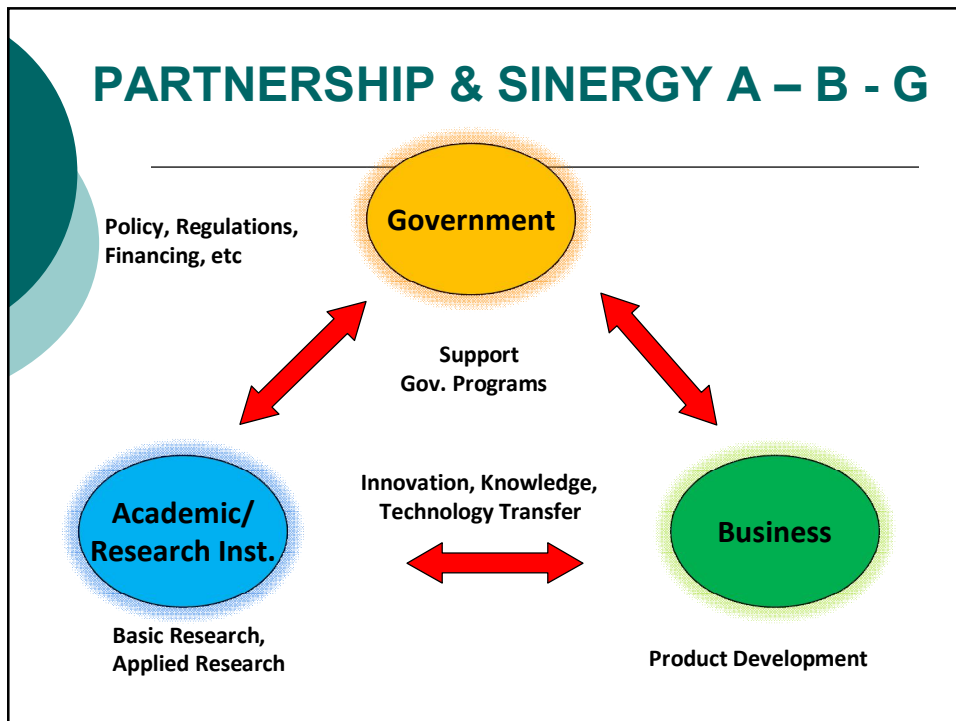
**Academic/
Research Inst.**

Basic Research,
Applied Research

Innovation, Knowledge,
Technology Transfer

Business

Product Development





Government Support/Policy :

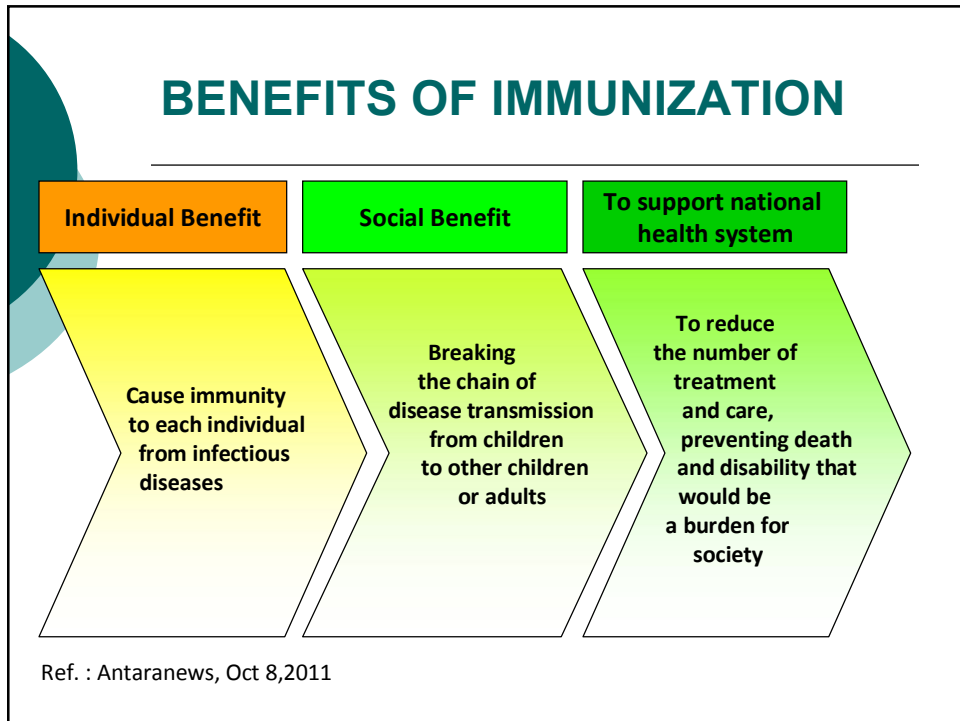
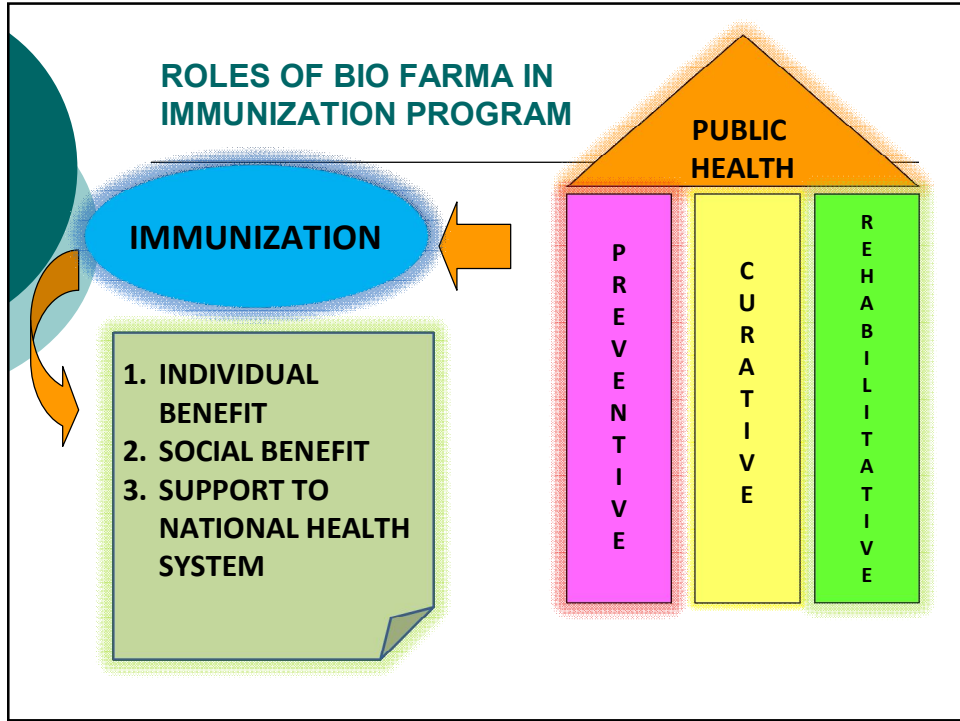
- Government Regulation Number 93/2010 Tax incentive policy for the donation given to research and development activities in Indonesia
- A company can apply restitution for Value Added Tax (VAT) of Research Expenses associated with the activities of company



Roles of Industry to Support Government Program

BIO FARMA :

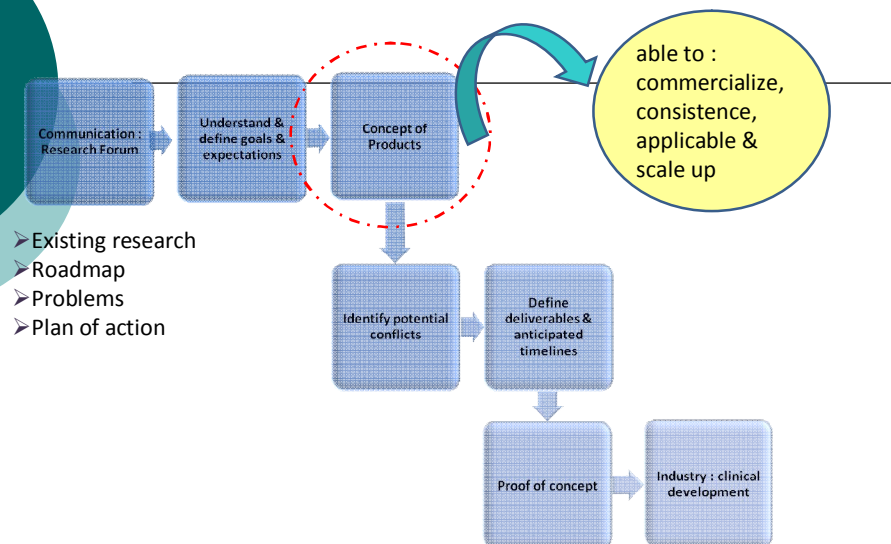
- Core business : manufacture Human Vaccines and Antisera
- Supply Vaccine and Antisera to the Gov. of the Rep. of Indonesia **for Immunization Program**



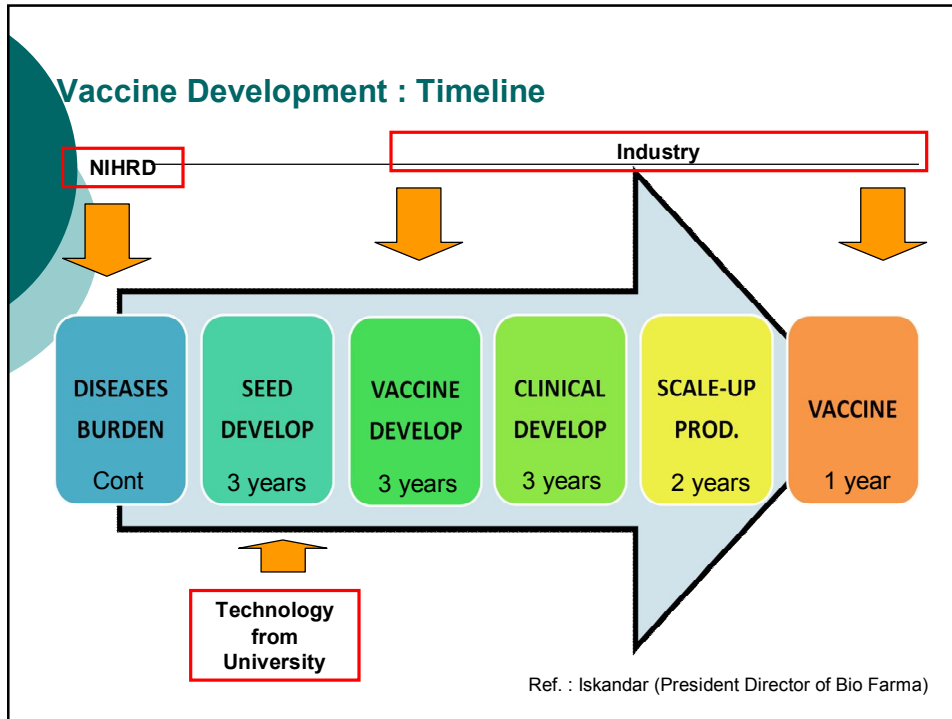
The Purpose of Collaboration between Industry (Bio Farma) and Universities :

- 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



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 INDOWATER), and the company have right to marketing and mass produce this technology.

The image displays a technical presentation for a water treatment system. On the left, there are two main diagrams. The top diagram, labeled 'ALTERNATIF I', shows a cross-section of a container-based system with components like 'POMPA AIR' (water pump), 'TANGKAIAN' (tanks), and 'SISTEM AERASI' (aeration system). The bottom diagram, 'DIAGRAM SIP PAKETING WTP BOSTING AIR PERUMPAHAM', illustrates a more complex system with 'TANGKAIAN AERASI' (aeration tanks), 'TANGKAIAN FILTRASI' (filtration tanks), and 'SISTEM AERASI' (aeration system). On the right side, there are several photographs: a blue container, a pump, aeration tanks, aeration columns, aeration filters, and a truck. The truck is labeled 'PT. LAPI INDOWATER' and 'INDONESIA'.

TEKNOLOGI MICRO HYDRAULIC LAPI INDO WATER ITB WTP MOBIL KAPASITAS 3 – 5 LPD PADA HARI KESEHATAN NASIONAL DI SUBANG 30 NOV 2005 - WAPRES, MENKES, 44 BUPATI & WALIKOTA



BUPATI SUBANG MEMINUM LANGSUNG AIR HASIL PENGOLAHAN WTP MOBIL MICRO HYDRAULIC LAPI ITB



JIRUT LAPI ITB – DIRUT PDAM - DPRD

44 BUPATI WALIKOTA MENDAPAT PENGHARGAAN DAN WAKIL PRESIDEN RI-PARAMENRI DAN GUBERNUR



AIR BAKU AIR PROSES HYDRAULIC DAN HASIL PENGOLAHAN LENGKAP DARI 900 NTU MENJADTO NTU



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://ipik.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!

