Anas M. Fauzi

Vice Rector for Research and Collaboration

DISSEMINATION OF INNOVATION Case of Bogor Agricultural University



Conference on "Lost in Translation" Britisch Council – MRHE – UGM Yogyakarta, March 4th, 2015











- 1. AGRICULTURE
- 2. VETERINARY MEDICINE
- 3. FISHERY & MARINE SCIENCES
- 4. ANIMAL SCIENCES
- 5. FORESTRY
- 6. AGRIC. ENG. & TECHNOLOGY
- 7. MATH & NATURAL SCIENCES
- 8. ECONOMY & MANAGEMENT
- 9. HUMAN ECOLOGY





















Bogor Agricultural University (IPB), Indonesia www.ipb.ac.id

RESEARCH AGENDA

- **FOOD**
- **ENERGY**
- POVERTY REDUCTION
- **ECOLOGY & ENVIRONMENT**
- **BIOMEDICINES**



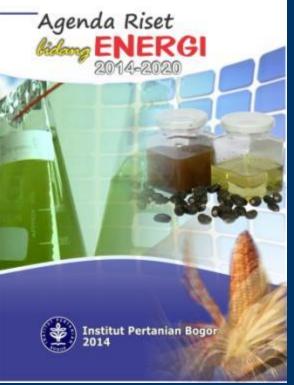








Research Agenda





Agenda Riset

Bidang PANGAN

Agenda Riset Strategis
bidang
Penanggulan
Kemiskinan
2014-2020





Consortium for Collaborative Research

New Academic Research Cluster "THE INDONESIAN BIOCLUSTER"

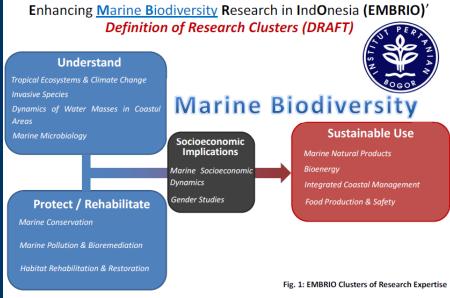
NEW ACADEMIC RESEARCH CLUSTER (NARC)



An integrated area where researchers, engineers and industries conduct research, technology development and innovation, information exchange, mutual cooperation and manufacturing of bioresources-based products to strengthen the industrialization toward sustainably economic growth, poverty alleviation, national prosperity and equity



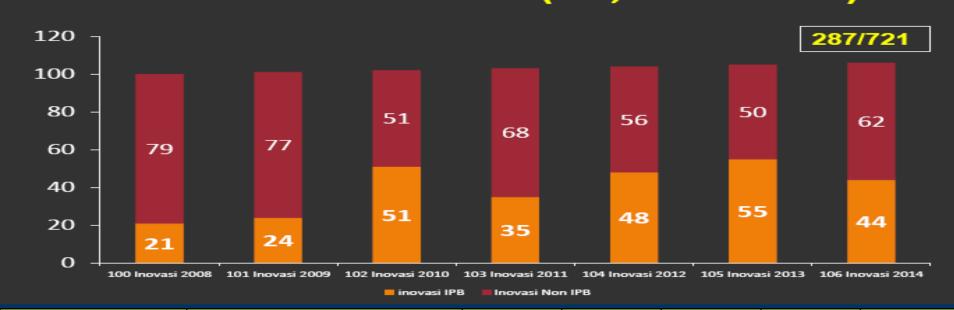






Bogor Agricultural University (IPB), Indonesia www.ipb.ac.id

CONTRIBUTION OF IPB IN THE LIST OF PROSPECTIVE INNOVATIONS IN INDONESIA (BIC, 2008 – 2014)



IPR	Status	2010	2011	2012	2013	2014
Patent	Registered	160	179	200	199	203
	Granted	25	33	47	61	69
Merk	Registered	3	3	0	7	9
	Granted	1	1	4	4	4
Copy right	Registered	1	4	4	4	6
	Granted		4	4	4	4



nnovation Food & Rural Dev.



Kampus IPB Baranangsiang, Jl. Raya Pajajaran - Bogor 161

Telp. 0251-8326881, 8382201; Faks. 0251-8326881

E-mail: ipbfruit@indo.net.id, fruit@ipb.ac.id

Website: http://buah.ipb.ac.id







Sutjiprihati (2011) Aswidinnoor et al. (2012)



Trikoesoemaningtyas (2012)



Innovation Food & Rural Dev.



Name of Lines	Protein Content		
	(%)		
IPB Kresna -12	33.91		
IPB Kresna- 15	40.14		
IPB Kresna -17	38.53		
Cikuray	35.00		
Malika	37.00		

Koesumaningtyas (2014)



SATURATED SOIL METHOD IN SOYBEAN CULTIVATION ON **TIDAL LAND**

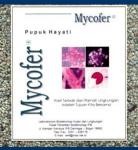
Ghulamahdi et al. (2012),



ANALOG RICE (Rice-like grain)

Composition	Analog Rice	Rice
Water content	10.58	14.39
Protein	7.83	8.40
Fat	1,13	0,22
Ash	0,61	0.23
Carbohydrate	79.85	91,10

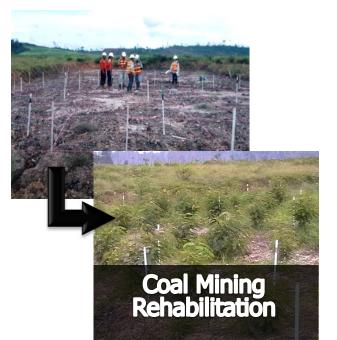




Application of Mycofer



- Enhance plant growth
- Improve quality and productivity
- improve seedling adaptation
- Reduce P input





Translation Regulations

National

- UU 18/2002 → National system for R&D and implementation of S&T
- UU 14/2001 → Paten
- PP 20/2005 → IP and technology transfer from univeristy and R&D institution
- PP No. 66/2013 → Statuta IPB

University (IPB)

- Rector decree No. 136/K13/PG/2004 → IP arrangement guideline
- Rector decree No. 209/K13/PG/2004 → IP management guideline
- Rector decree No. 180/K13/PG/2005 → IP management guideline for graduate research

IPB rector decree No. 209/K13/PG/2004

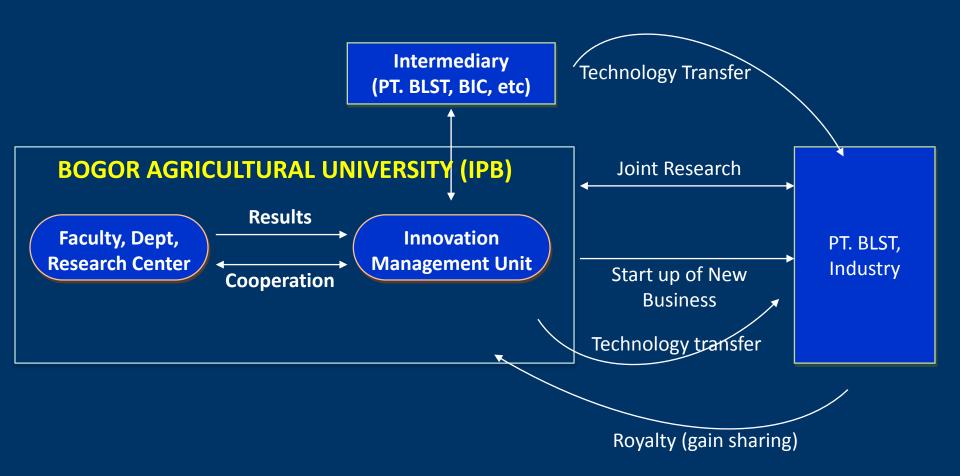
IP and patent ownership

- ➤ IPs and patents resulted from IPB-funded research work belong to IPB.
- ➤ IPs and patents resulted from research in IPB facilities belong to IPB as long as no specific agreement with the third party

Gain sharing (Royalty based)

- Inventor: 40%
- ➤ Office (lab/dept/research center) : 20 % → research funding, lab facility maintanance
- > IPB : 40 % → IP management, academic/research supports

DISSEMINATION SYSTEM OF INNOVATIONS IN IPB



CAJUPUT CANDY

- PT Wahana Karya Inovasi (IFA Group) mediated by BIC
- Technology license since 2014
- Prof. Hany Wijaya (Biopharmaca Research Center, Dept.of Food Science and Technology







PERJANJIAN KERJASAMA APLIKASI TEKNOLOGI PERMEN CAJUPUT ANTARA



INSTITUT PERTANIAN BOGOR

DENGAN

PT. WAHANA KARYA INOVASI

Nomor

13/IT3/KsP/2014



Biopharmaca Products

KAO Corporation - Japan with Biopharmaca Research Center (started in Agustus 2014) Scientific and Technical Cooperation for commercial research

Benefits: 1) Research funding, 2) Capacity building for researchers, 3) International patent registration, 4) Technology transfer





MEMORANDUM OF UNDERSTANDING BETWEEN

BOGOR AGRICULTURAL UNIVERSITY

AND

KAO CORPORATION



CONCERNING
SCIENTIFIC AND TECHNICAL COLABORATION

Bogor Agricultural University Institut Pertanian Bogor (hereafter referred as "IPB") through the Biopharmaca Research Center (BRC LPPM IPB) of Indonesia and Kao Corporation (including its affiliate, Kao Consumer Products (Southeast Asia) Co., Ltd.) of Japan (hereafter referred as "Kao") bereafter referred as "Be Parties.

Considering the Parties common interest in establishing collaboration for a research study on Indonesian Herbs.

Palm oil based surfactant (*Metil Ester* Sulfonat) for Enhanced Oil Recovery (EOR)

- PT Mahkota Indonesia, since 2011 for surfactant production (5 ton/day)
- Surfactant and Bioenergy Research Center (SBRC) IPB
- Contract Agreement with PT Pertamina EP (USD 1.11 Mio) in 2012 for the production of 110 ton surfaktan MES.



Vaccine Production

PT. IPB Shigeta and PT. BLST IPB for Bird flu vaccine (Bird Close 5.1)

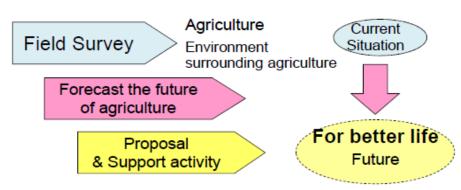
PT. Bio Farma and Primate Research Center IPB for Vaccine Polio



Yanmar Agricultural Research Institute-IPB (YARI-IPB)

《Purpose》

(1) Forecast the future of agriculture from field survey of agriculture and its social environment, and Propose the solution for better life of those who are relating to food production.



YARI - IPB

YANMAR

(2) Propose Solution widely for products and software to become an mandatory company for Farmers, Agricultural villages

Regions and Countries.



Department of Mechanical and Biosystem Engineering - IPB

IPB – RIST Posco Co. Korea











DISEMINAT



IPB Innovation Gallery



VINI GALERI INOVASI



Serambi Botani® (Outlet for IPB's products)

Bogor (Botani Square), Jakarta (Gandaria City, Mal Artha Gading, Kota Kasblanka), Serpong-Tangerang (Mal Alam Sutera), Palembang (Mal Palembang Icon), Surabaya (Mal Ciputra World)









- Outlet of all IPB's superior products both produced from research results (IPR base and non IPR) as well as small and medium business enterprise fostered by IPB
- Products: food, beverages, fruits, herbal & body care

ADOPTION FACTORS

Innovation Characteristic

- Relative advantage
- Compatibility
- Complexity
- Trialability
- Observability

VS

Company Strategy

- > Proactive
- > Active
- Reactive
- > Passive

DISEMINATION STRATEGY

- Extension Programs
- Exhibition & Business meeting
- Forum ABG-C
- Direct marketing
- Joint research & production
- Spin off Company

WAYS FORWARDS.....

Nowadays apart from *teaching, research* and *community empowerment*, **economic development** has become also an additional important pillar.

World Patent Information xxx (2013) 1-10



Contents lists available at ScienceDirect

World Patent Information

journal homepage: www.elsevier.com/locate/worpatin

An entrepreneurial, research-based university model focused on intellectual property management for economic development in emerging economies: The case of Bogor Agricultural University, Indonesia

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b Bogor Agricultural University (Institut Pertanian Bogor, IPB), Bogor, Indonesia

dari dan untuk IPB

http://blst.co.id



PT Bogor Life Science and Technology

Holding Company of IPB

Established since October 5th, 2003



















IPB Science Park Taman Kencana

- ❖ Research Centers ❖ Innovation Gallery
- ❖ Multi-tenant building ❖ Green house

2014 - 2018



