

# UPM AT A GLANCE

**140+**  
DEGREE  
PROGRAMS

**3000 HECTARE**  
MAIN CAMPUS  
+ BRANCH CAMPUS

**1700+**  
ACADEMIC  
STAFFS

**100+**  
STUDENT  
ORGANIZATIONS

**26,000** STUDENT FROM  
60 COUNTRIES  
**40%** POSTGRADUATE STUDENT  
**17%** INTERNATIONAL STUDENTS

**16** FACULTIES  
**10** INSTITUTES  
**1** SCHOOL  
**1** ACADEMY

**120+**  
NATIONAL  
ATHLETES



**UPM**

UNIVERSITI PUTRA MALAYSIA  
BERILMU BERBAKTI

# INTRODUCTION

Universiti Putra Malaysia (UPM) is one of Malaysia's premier public Universities with an array of disciplines

Founded in 1931 and known internationally as one of the distinguished universities in the region

Accorded the status of "Research University" in 2006

Awarded Autonomy University status in 2012

Awarded Self-Accreditation status (Academic Programs Quality) in 2010



# PIONEERING UNIVERSITY WITH PROVEN TRACK-RECORD

The first to offer an **agriculture** program in Malaysia



The first certified **halal product research** institute Malaysia (R&D)



UPM professor was the first in Asia to win the **Carlos. J. Finlay Award** in Microbiology



The first to offer **Bioscience, Biotechnology, Veterinary, Food Science & Technology, Forestry** programs in Malaysia



The first and only international **Biomass Technology Centre** in the country undertaking R&D in tropical biomass



The first and only national **ageing research institute** Malaysia



# UPM ranks in the **Top 1.0%** of universities worldwide

**229<sup>th</sup>**

QS World University Rankings

**17<sup>th</sup>**

QS Top 50 Under 50

REUTERS

**Top 75**

Asia's Most Innovative Universities

**36<sup>th</sup>**

QS Asia University Rankings

PUTRA  
GLOBAL 

**34<sup>th</sup>**

UI GreenMetric University Rankings

**5 Star**



QS Star Universities Ratings

**200**

**89<sup>th</sup>**

THE BRICS & Emerging Economics World Rankings

**Agriculture Science program rankings**

**Top 100**

QS World University Ranking by Subjects

**42<sup>nd</sup>**

US News & World Report

**67<sup>th</sup>**

National Taiwan University Ranking



# R&D AT UPM



# FACULTIES & SCHOOL

# 1

School

- SCHOOL OF GRADUATE STUDIES

# 16

Faculties

- FACULTY OF AGRICULTURE
- FACULTY OF SCIENCE
- FACULTY OF ENGINEERING
- FACULTY OF EDUCATIONAL STUDIES
- FACULTY OF FOOD SCIENCE & TECHNOLOGY
- FACULTY OF FORESTRY
- FACULTY OF VETERINARY MEDICINE
- FACULTY ECONOMICS & MANAGEMENT
- FACULTY OF HUMAN ECOLOGY
- FACULTY OF MODERN LANGUAGES & COMMUNICATION
- FACULTY OF DESIGN & ARCHITECTURE
- FACULTY OF MEDICINE & HEALTH SCIENCES
- FACULTY OF ENVIRONMENTAL STUDIES
- FACULTY OF AGRICULTURE & FOOD SCIENCE
- FACULTY OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY
- FACULTY OF BIOTECHNOLOGY & BIOMOLECULAR SCIENCES



# RESEARCH INSTITUTES

# 10

## Institutes

### \*Institute of Bioscience

Institute of **Advanced Technology**

Malaysian Research Institute of **Ageing**

Institute of **Mathematical Research**

Institute of **Halal Product Research**

Institute of **Agricultural & Food Policy Studies**

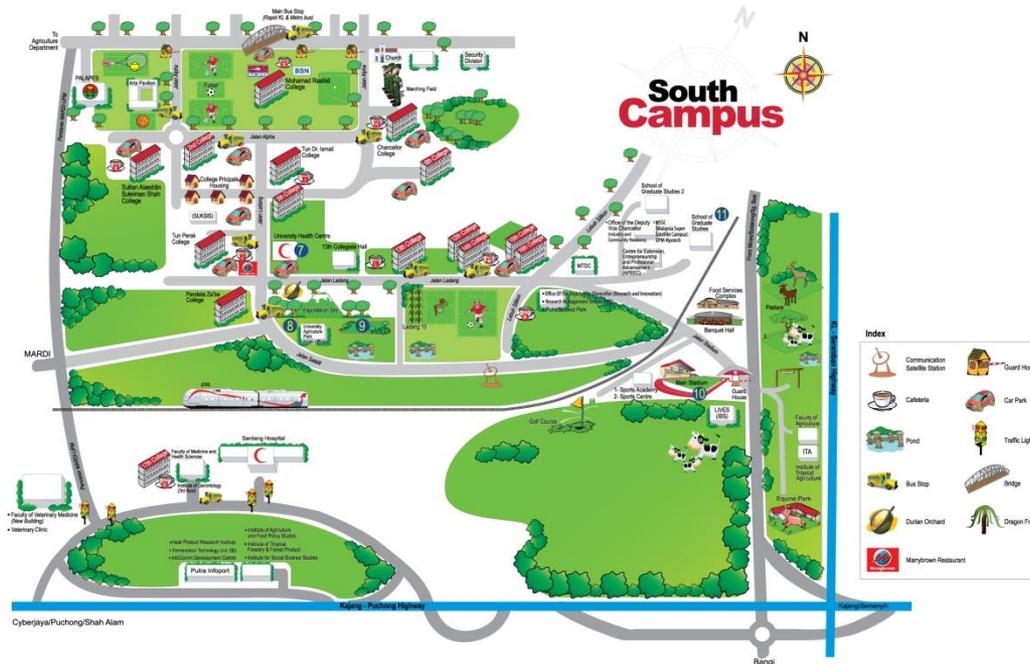
\*Institute of Tropical Forestry & Forest Product

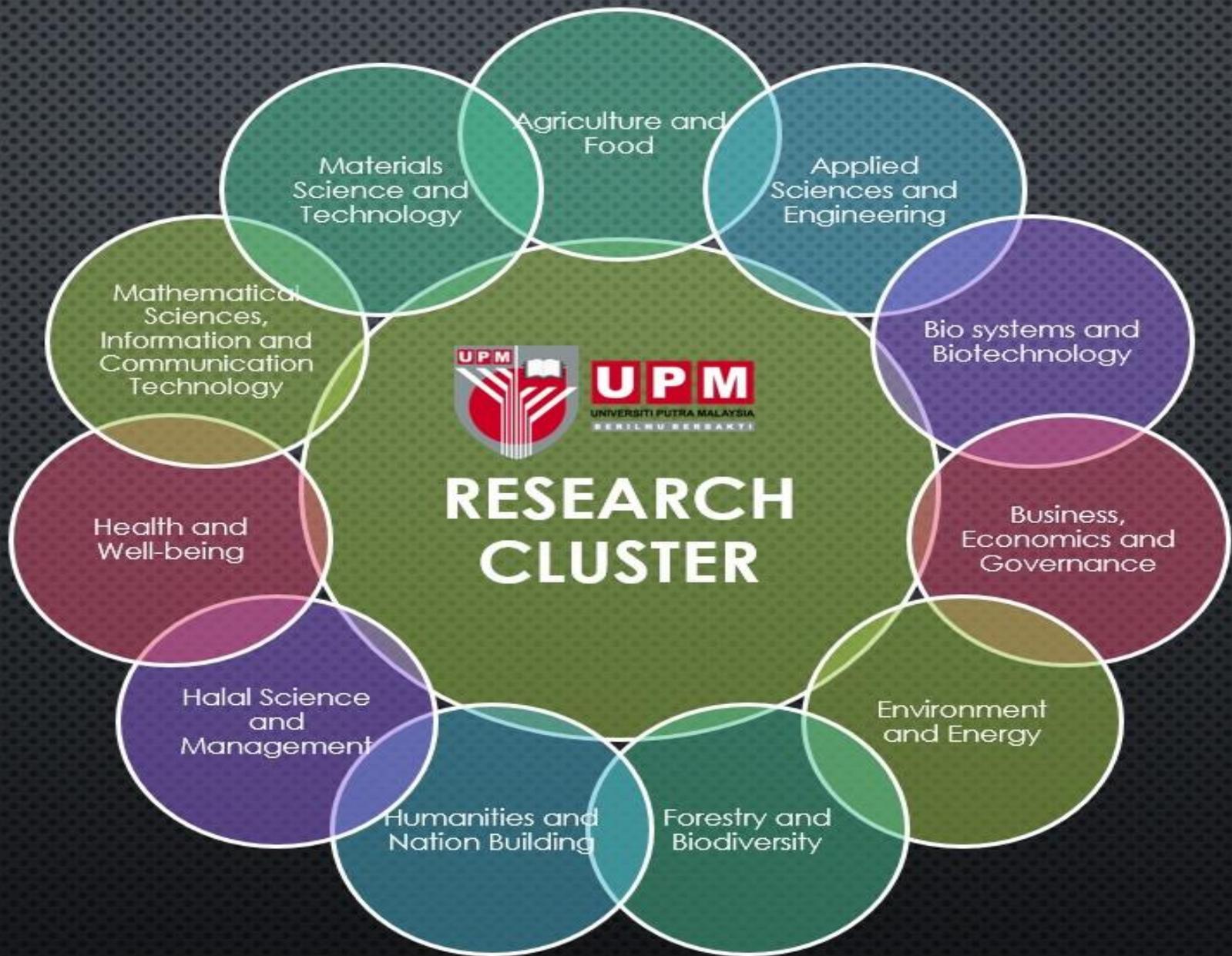
Institute of **Social Science Studies**

\*Institute of Tropical Agriculture & Food Security

Institute of **Plantation Study**

**\* Awarded as Higher Education Centers of Excellence - HICoE**





# Blockbuster Research

## COSMOS

Continuous Operating System for Microalgae Culture  
(Optimized for Sustainable Tropical Aquaculture)



A research grant under the SATREPS program  
funded by JICA-JST-MOHE

Total fund of USD 4.0 million (~ RM14.5  
million) for a period of five (5) years



The technology is believed to be effective in  
reducing environmental pollution

### Partners:



**UPM**  
UNIVERSITI PUTRA MALAYSIA



東京大学  
THE UNIVERSITY OF TOKYO



National  
Institute for  
Environmental  
Studies, Japan

### Funders:



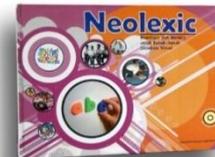
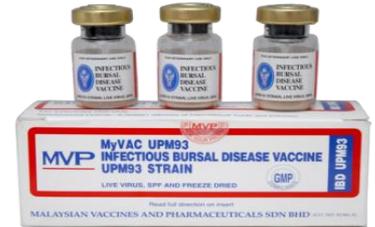
Japan Science and Technology Agency



Japan International  
Cooperation Agency



# UPM COMMERCIALIZATION



*More than **2200** IP filed*

*135 IP commercialized with gross sales more **RM58.91** millions. 6.4% of innovation being transferred to industry*

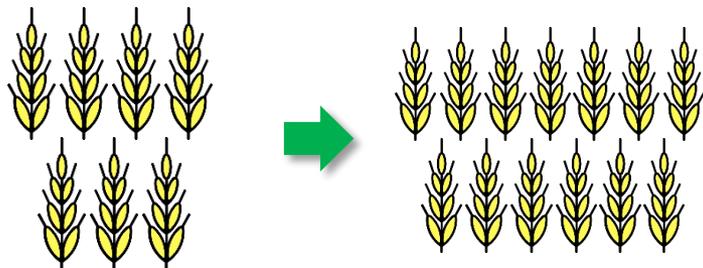
*Awarded National Intellectual Property Awards : **THE BEST ORGANIZATION** for 2008, 2012, 2014 and 2016.*



# Impact: Translational Research



## PadiU Putra



**+20%**

Production



**RM 1k**

Additional income per tonne



# E-cutter

- The 'e-cutter' was developed as part of the university's translational research programme in collaboration with the Higher Education Ministry and the Federal Land Development Authority (Felda).
- The innovation was co-developed by Professor Dr. Norhisam Misron from UPM's Engineering Faculty and Abdul Razak Jelani, research officer from the Malaysian Palm Oil Board.
- E-cutter is fully powered by electricity and can reach oil palm trees as high as 30 feet
- 1,000 units of the machine would be distributed to Felda smallholders in stages



Higher Education Minister Datuk Seri Idris Jusoh tries out the electric cutter

Funders:



# Pepper Processing Machine



- 1) Driving wealth for B40 community
- 2) Automization of white pepper production of premium quality
- 3) Increase productivity and revenue for more than 30%
- 4) Total Orders To-date : 2 units awarded to 2 longhouse community in Betong, Sarawak (largest White Pepper production area in Malaysia) under the Rural Transformation Program (RTP)
- 5) Total investment: RM280,000

## FUNDERS:



APRIL 2016: With pepper farmers of Rumah Panjang Banyang, Melabu Bair, Ulu Layar



APRIL 2017: Demonstration of the machine with pepper farmers of Rumah Panjang Melina, Luang, Spak

# Money Genius



- 1) Penetrating Malaysian School
- 2) Receive international and national awards



2016 International Invention Innovation Competition in Canada (iCAN 2016)

Anugerah Harta Intelek Negara 2015 Putra World Trade Center (PWTC) Kuala Lumpur  
September 2015

**GOLD AWARD & SPECIAL AWARD**  
Category: Children Invention

**THE GRAND AWARD + RM 10,000 CASH**  
Category: Copyrights (Profesor Bijak Wang)



PROGRAM BIJAK WANG  
With Sekolah Rendah Komuniti Serdang, Selangor

## COMMUNITY PROGRAMS



PROGRAM INFAK KIT BIJAK WANG  
In conjunction with Bulan Ramadhan Selangor

FUNDERS:



KEMENTERIAN PENDIDIKAN TINGGI



# Researchers Profile

List of researchers who involve in rubber related research

| Name                             | Faculty       | E-mail   |
|----------------------------------|---------------|--|
| ZULKEFLY BIN SULAIMAN            | AGRICULTURE   | <a href="mailto:zulkefly@upm.edu.my">zulkefly@upm.edu.my</a>   |
| TAN GEOK HUN                     | AGRICULTURE   | <a href="mailto:geok_hun@upm.edu.my">geok_hun@upm.edu.my</a>   |
| ISMAIL BIN ABD. LATIF            | AGRICULTURE   | <a href="mailto:ial@upm.edu.my">ial@upm.edu.my</a>             |
| SITI NOR AKMAR BINTI ABDULLAH    | AGRICULTURE   | <a href="mailto:snaa@upm.edu.my">snaa@upm.edu.my</a>           |
| LUQMAN CHUAH BIN ABDULLAH        | ENGINEERING   | <a href="mailto:chuah@upm.edu.my">chuah@upm.edu.my</a>         |
| SITI KHAIRUNNIZA BINTI BEJO      | ENGINEERING   | <a href="mailto:skbejo@upm.edu.my">skbejo@upm.edu.my</a>       |
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| MOHD SAPUAN BIN SALIT @ SINON    | ENGINEERING   | <a href="mailto:sapuan@upm.edu.my">sapuan@upm.edu.my</a>       |
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| JEGATHESWARAN A/L RATNASINGAM    | FORESTRY      | <a href="mailto:jswaran@upm.edu.my">jswaran@upm.edu.my</a>     |
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**UNIVERSITI PUTRA MALAYSIA**  
AGRICULTURE • INNOVATION • LIFE

**Thank You | Terima kasih**