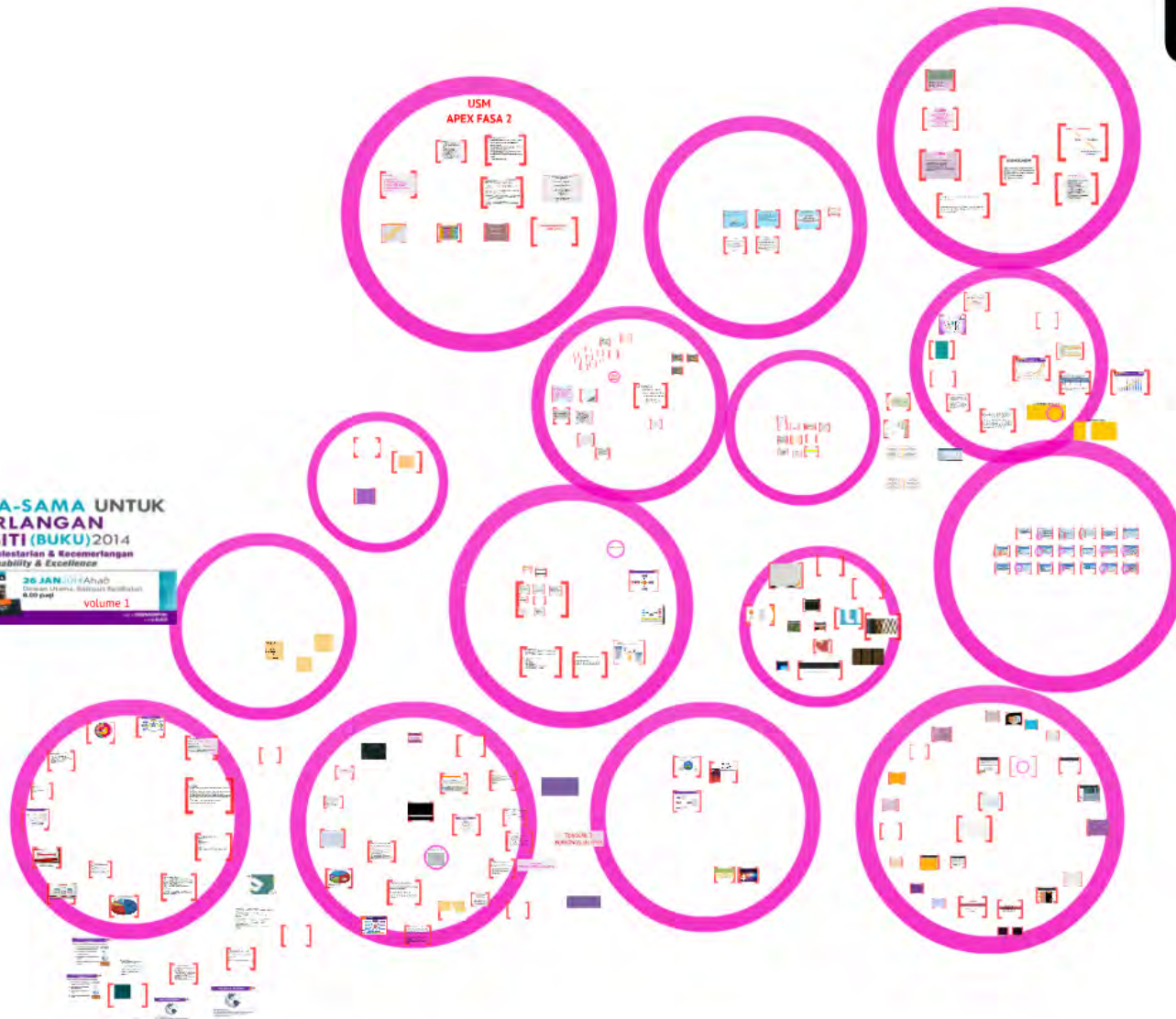


USM APEX



1 USM



BERSAMA-SAMA UNTUK KECEMERLANGAN UNIVERSITI (BUKU) 2014

Keterangkuman, Kelestarian & Kecemerlangan
Inclusivity, Sustainability & Excellence



**semua
DIJEMPUT
HADIR**

26 JAN 2014 Ahað
Dewan Utama, Kampus Kesihatan
8.00 pagi

volume 1

kami **MEMIMPIN**
we **LEAD**

BUKU 2014

1. KAMPUS INDUK:DTSP: 8 JAN 2014

2. KAMPUS KEJURUTERAAN: 9 JAN
2014

TEKS UCAPAN: DWI BAHASA
PERSEMBAHAN : DWI BAHASA

KESILAPAN EJAAN ADALAH
DIKESALI

Ayat 8 Surah al-Maidah mafhumnya:

Wahai orang-orang yang beriman, hendaklah kamu semua sentiasa menjadi orang-orang yang menegakkan keadilan kerana Allah, lagi menerangkan kebenaran dan jangan sekali-kali kebencian kamu terhadap sesuatu kaum itu mendorong kamu kepada tidak melakukan keadilan. Hendaklah kamu berlaku adil (kepada sesiapa jua) kerana sikap adil itu lebih hampir kepada taqwa. Dan bertaqwalah kepada Allah, sesungguhnya Allah Maha Mengetahui dengan mendalam akan apa yang kamu lakukan.

Ayat 47, surah Adh-Dhariyaat mafhumnya:

"Dan langit itu kami dirikan dengan kekuasaan kami (dalam bentuk binaan yang kukuh dan rapi) dan sesungguhnya Kami adalah mempunyai kekuasaan yang luas tidak terhingga"

TERIMA KASIH

Tuan Yang Terutama

Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Haji Abbas,
Yang di-Pertua Negeri Pulau Pinang
dan

Yang Amat Berbahagia

Toh Puan Dato' Seri Utama Hajah Majimor Shariff



1USM

KELESTARIAN

UNTUK HARI ESOK

RELEVAN

UNTUK HARI INI

KECEMERLANGAN

UNTUK SEMUA

KUALITI

KETERANGKUMAN



1. USM Universiti APEX Fasa 2 :

- ekuiti,**
- tanggung jawab dan**
- kecemerlangan**
- tempat kerja & organisasi.**

2. Program APEX

- i. Mekanisma Urus tadbir & otonominya**
- ii. Pentadbiran dan pentadbir berupaya**
- iii. Berdaya maju dalam kewangan**

PENGLIBATAN PELAJAR



- **Pelajar yang terlibat: 85%.**
- **Bil penglibatan : hampir 37,000 untuk**
- **1,100 projek**

BANTUAN KEWANGAN



1. **35 agensi luar memberi biasiswa dan pinjaman dengan 16,782 penerima**
2. **21 Tabung pinjaman dalaman USM dengan**
 - **297 penerima**
 - **2009 penerima insentif akademik, sosio-ekonomi dan penerbangan**
3. **Pelajar tanpa bantuan = 1859 orang/14000 pelajar Penuh Masa Ijazah Pertama**

PELAJAR IJAZAH TINGGI

- Graduate assistant scheme = 147
 - Post Graduate Research Grant= 1106
 - Fellowship = 137
-
- Industrial PhDs
 - My Brain15
 - My Masters
 - MARA Scholars
 - Other External Scholarships PG
Nos. 508



Tugas kita

- **Melebarkan kerjasama dalam kampus**
- **Bersama dengan program universiti**
- **Pelajar lebih ramai - komuniti luar**
- **Sukarelawan Staf - persatuan, kelab, ptj**

1 USM

- Prinsip keterangkuman
- Prinsip bersama dan kebersamaan
 - Bekerja berpasukan
 - Berkerja tujuan sama
- antara staf dan pelajar sesama staf dan ptj
 - Bekerja untuk USM
 - Bersama untuk USM
- Diversiti dan Memupuk perpaduan

1 USM



- Lebih ramai staf amal gaya hidup sihat
- Meningkatkan cakna masyarakat
- Menjadi agen cakna masyarakat
- Melatih lebih ramai sukarelawan
- konsep bantu diri dan bantu yang lain secara sukarelawan

KECEMERLANGAN

- **1 Pembudayaan Penyelidikan**
- **2 Kekuatan Akademik**
- **3 Kekuatan jaringan**
- **4 Kesejahteraan individu**
- **5 Kestabilan institusi**
- **6 Kestabilan persekitaran**
- **7 Budaya kelestarian**
- **8 Pembudayaan kesejahteraan**
- **9 Budaya hubungan**

Kualiti ----- Kecermmerlangan



Relevan ----- keterangkuman



**Kualiti & Relevan -----
Kelestarian**

PROGRAM TRANSFORMASI STAF SEJAHTERA

Memperkayakan konsep sejahtera - membantu pembangunan insan yang sejahtera.

PEJABAT TRANSFORMASI



**Memperkemarkan komitmen staf -
membina budaya kerja -
pemupukan & memperkayakan hati dan qalbu -
budaya masyarakat sivil, budaya integriti, budaya
berniat baik, budaya minda sejahtera**

PROGRAM MEMUMPUK JIWA



- Salah satu program asas - program Transformasi Staf Sejahtera
- Menggunakan konsep 'hati-akal-fizikal' - membina kesihatan hati dan rohani.
- Menjadikan kerohanian berada di landasan kebaikan & memandu kehidupan - kesejahteraan yang holistik.

Membina; Mengupaya; Membudaya Kecemerlangan:



- **Mengganda pencapaian ahli akademik & penyelidik.**
 - **Mengupaya PTJs**
 - **Mengupaya bakat**
 - **Transformasi minda - produktif**
- **Memimpin dalam kelestarian & pemimpin transformatif**
- **Transformasi & pemindahan pengetahuan & teknologi**
 - **Perhubungan strategik**

RELEVAN

- Relevan ialah hubungan; praktikal & mempunyai aplikasi sosial.
- Ia mempamirkan kesahihan atau membuktikan sesuatu.
 - Kurikulum mesti relevan.
- Apa yang dikaji perlu relevan kepada ilmu untuk mencari penyelesaian kepada masalah persekitaran, pembangunan dan masalah sosio ekonomi.

Adakah kita relevan?
Adakah USM relevan?

KECEMERLANGAN

- **Bagaimana kita mengguna sumber**
- **Sejuah manakah produktif bakat kita**
- **Sudah kah kita mencapai tanda aras?**
- **Dan tanda aras siapa?**
- **Dan tanda aras mana?**

KELESTARIAN

Dalam pengajian tinggi.

**Usaha Universiti untuk bersaing mendapat pelajar berkualiti.
Staf berketrampilan, kemudahan mencukupi dan kewangan,**

Fokus ialah status quo, praktis terbaik dan kecemerlangan.

Ini ialah lautan merah.

Aspek lain ialah:

**Berhadapan dengan isu kelestarian dan bagaimana kita menghadapinya
dan bagaimana USM mempelopornya.**

Ini ialah lautan biru

MELIHAT 10 TAHUN - 2004-2008 DAN 2009-2013

PENCAPAIAN

2004-2008 PRE APEX

2009-2013 APEX FASA 1

KEMAJUAN 10 TAHUN: 2004-2008 DAN 2009-2013

- **Membawa universiti - berbeza dan kejayaan lebih terserlah - perspektif awam.**
- **Kedudukan USM - ranking berasaskan ilmu terbaik dengan pencapaian amat membangkakan di tahap Dunia.**
- **Ranking institusi di tahap memuaskan**
- **USM - pelbagai isu dan kefahaman berkenaan Universiti APEX.**
- **Prospek masa hadapan - terus membina asas & fundamental yang sesuai kepada model APEX untuk Malaysia & aspirasi nasional - tandaras antarabangsa.**

Dokumen-Dokumen Terkini Universiti Sains Malaysia



UNIVERSITI SAINS MALAYSIA



Transforming Higher Education for a Sustainable Tomorrow





Status Pencapaian **BUKU 2013**

Bersama-sama untuk
Kecemerlangan Universiti
Together for University's Excellence

**“Mensinergi Ekosfera
Universiti untuk
Kecemerlangan”**

*Synergizing the Ecosphere of
University for Excellence*

edisi khas APEX



dalam Angka dan Nombor



Bahagian Pembangunan Institusi

www.usm.my

disediakan oleh
Bahagian Pembangunan Institusi

3) PERATUS GRADUAN IJAZAH PERTAMA PENUH MASA DENGAN
PNGK 3.00 DAN KEATAS BAGI TAHUN 2009 SEHINGGA 2013

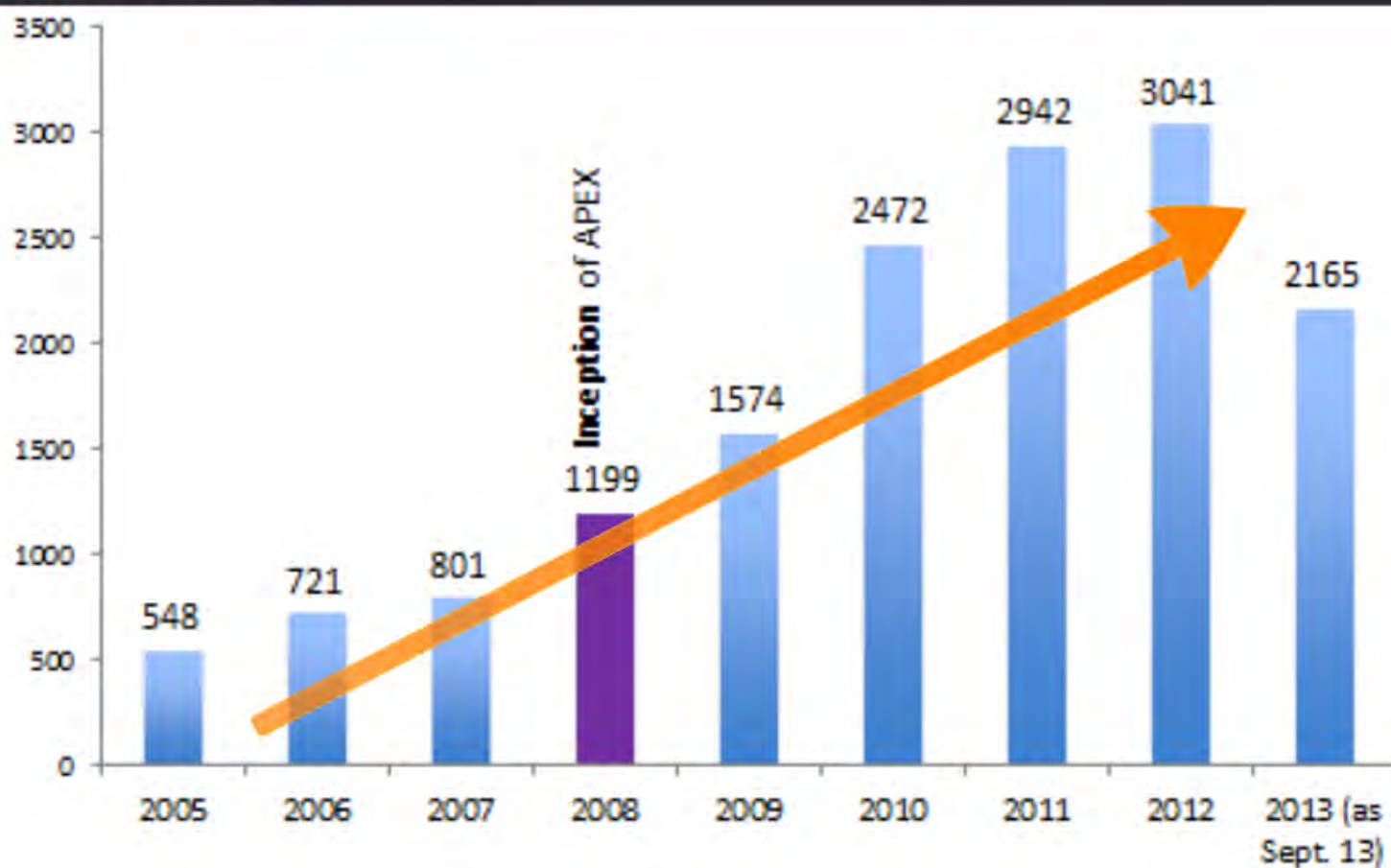
PNGK	Tahun				
	2009	2010	2011	2012	2013
	%	%	%	%	%
3.00 dan keatas	59	58	66	67	70

Nota: PNGK Program Doktor Perubatan dan Doktor Pergigian dikira dalam kelompok PNGK 3.00-3.66



Publications In Scopus

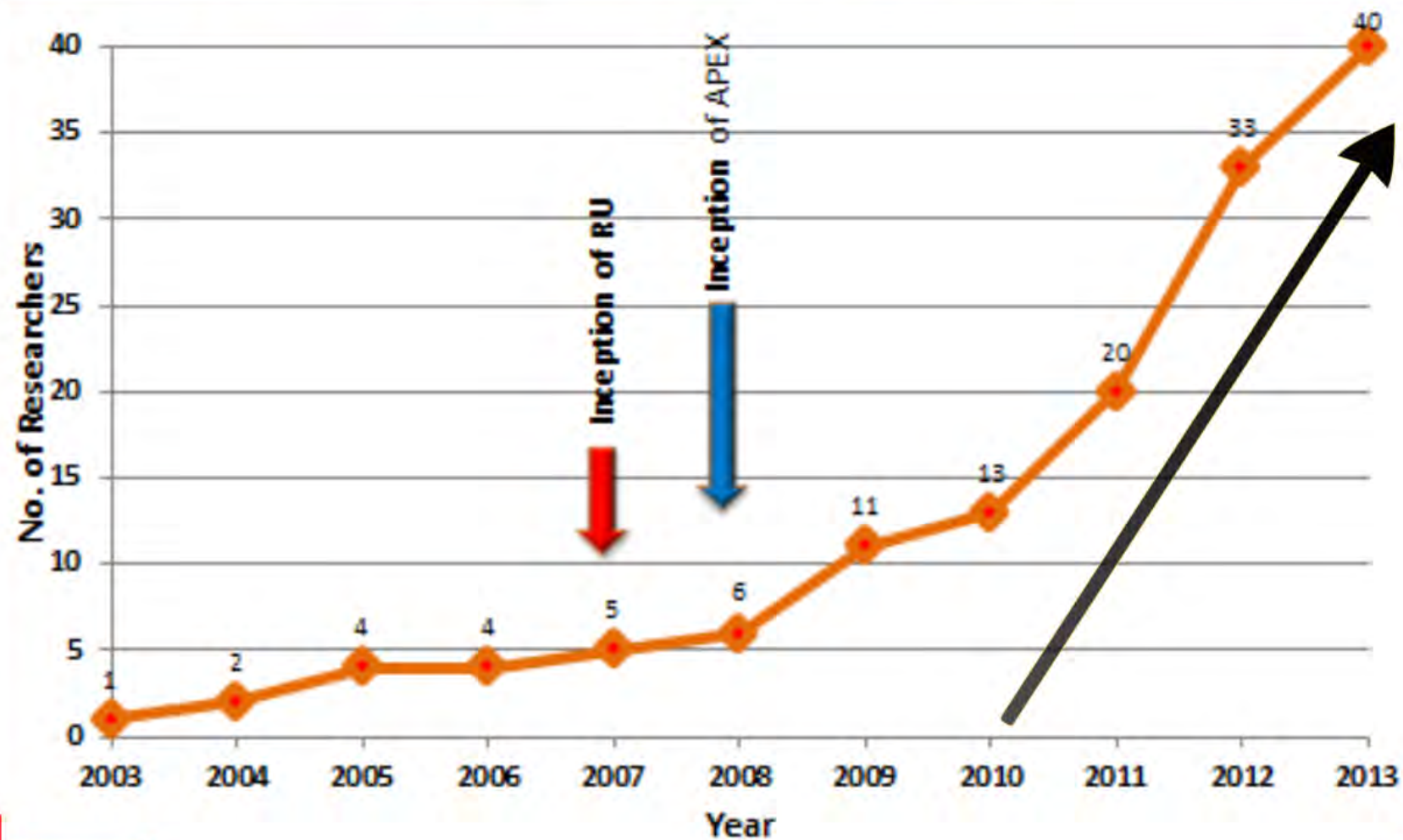
APEX Phase I





No. of USM Researchers With ISI Citations > 500

APEX Phase I



USM PERFORMANCE

Assessments	2008	2009	2010	2011	2012	2013
Malaysia Research University Assessment (MyRA)	RU Status 6 bintang (2007 – 2009)		Matured RU Status - 6 bintang -			N/R
Peer Review CAPs PSPTN	N/R	N/R	✓	✓	✓	N/R
Peer Review CAPs APEX	N/R	N/R	✓	✓	✓	N/R
SETARA	-	Tier 5 (Cemerlang)	-	Tier 5 (Cemerlang)	-	N/R

USM PERFORMANCE

D'SETARA						
» Perubatan, Pergigian dan Farmasi	-	-	-	Tier 4 Tier 5	-	N/R
» Kejuruteraan ; Sains Kesihatan				-		
» Hospitaliti dan Pelancongan						
Generic Community Engagement	N/R	N/R	N/R	N/R	100%	
QS-WUR Ranking	313	314	309	335	326	355
Webometrics (world):	-	-	Not in top 500 Top 3 in MAS	428 Top 3 in MAS	437 Top 1 in MAS	307 Top 1 in MAS

KEY DELIVERABLES BEFORE 2008	% INCREASED	KEY DELIVERABLES BEFORE 2013 (AFTER PHASE 1)
2717 NEW RESEARCH GRANTS (2004-2008)	80% UP	4897 NEW RESEARCH GRANTS (2009-2013)
3392 CUMULATIVE PUBLICATION (CITATION-INDEXED JOURNAL) ISI/SCOPUS (2004-2008)	209% UP	10464 CUMULATIVE PUBLICATION (CITATION-INDEXED JOURNAL) ISI/SCOPUS (2009-2013)
0.74 PUBLICATION PER STAFF (CITATION-INDEXED JOURNAL 2008)	102% UP	1.50 PUBLICATION PER STAFF (CITATION-INDEXED JOURNAL 2013)
7801 POSTGRADUATES ENROLLMENT (2008)	55% UP	12097 POSTGRADUATES ENROLLMENT (2012)

5635 POSTGRADUATES GRADUATED (2004-2008)	44% UP	8113 POSTGRADUATES GRADUATED (2009-2013)
521 PHD GRADUATED (2004-2008)	142% UP	1316 PHD GRADUATED (2009-2013)
7.0% OF UNDERGRADUATES GRADUATING WITH A CGPA 3.5 OR HIGHER	78% UP	12.5% OF UNDERGRADUATES GRADUATING WITH A CGPA 3.5 OR HIGHER
40 PATENTS FILED AND 34 PATENTS GRANTED (2004-2008)	617%	287 PATENTS FILED AND 35 PATENTS GRANTED (9-2013)
1760 ACADEMIC STAFF	7%	1887 ACADEMIC STAFF

USM in QS SUBJECT RANKING

1. ENVIRONMENTAL STUDIES
2. CHEMICAL ENGINEERING
3. ENGLISH LANGUAGE AND LITERATURE
4. MECHANICAL ENGINEERING
5. EDUCATION AND TRAINING
6. HARMACY
7. MODERN LANGUAGES
8. ELECTRICAL AND ELECTRONICS
9. CIVIL ENGINEERING
10. COMPUTER SC AND IINFORTMATION SYSTEMS
11. ECONOMICS AND ECONOMETRICS
12. MATERIAL SCIENCE

RANKING

2011	2012	2013
51-100	29	30
51-100	51-100	38
101-150		151-200
	151-200	101-150
	101-150	101-150
	151-200	101-150
		101-150
		101-150
		101-150
		151-200
		151-200

ESSENTIAL SCIENCE INDICATORS

INSTITUTION

FIELD

USM (6)



CHEMISTRY, MATERIAL SCIENCE, ENGINEERING, CLINICAL
MEDICINE, AGRICULTURAL SCIENCES,
ENVIRONMENT/ECOLOGY

UM (7)



CHEMISTRY, MATERIAL SCIENCE, ENGINEERING, CLINICAL
MEDICINE, ENVIRONMENT/ECOLOGY, PLANT AND ANIMAL
SCIENCE, SOCIAL SCIENCE GENERAL

UKM (2)

CLINICAL MEDICINE, ENGINEERING

UPM (3)

AGRICULTURAL SCIENCES, ENGINEERING, PLANT AND ANIMAL
SCIENCE

UTM (2)

CHEMISTRY, ENGINEERING

PENERBITAN ISI

INSITUTION	AGE (FOUNDED)	ISI PUBLICATION
HARVARD U	377 (1636)	118,282
TOKYO U	137 (1877)	75,624
OXFORD U	847 (1167)	60,060
KYOTO U	117 (1897)	55,752
CAMBRIDGE U	783 (1231)	55,946
SEOUL U	68 (1946)	49,163
NUS	109 (1905)	39,684
MAHIDOL	71 (1943)	8,733
UM	109 (1905)	9,892
USM	44 (1969)	8,320

LEBIH BERUMUR UNIVERSITY LEBIH TINGGI
PENERBITAN ISI



www.usm.my

Delivering Excellence Grants 2012 (DE2012)
email: usmde2012@gmail.com



Extended Abstracts APEX Delivering Excellence Projects



USM

UNIVERSITI
SAINS
MALAYSIA

Extended
ABSTRACTS
APEX
Delivering Excellence
PROJECTS



USM

APEX FASA 2

APEX Fasa 2 berhasrat :

- Meluaskan akses & meningkatkan ek

APEX Fasa 2 berhasrat :

- **Meluaskan akses & meningkatkan ekuiti**
- **Meningkatkan kualiti pengajaran & pembelajaran**
- **Mempertingkatkan penyelidikan & Inovasi**
- **Mengukuhkan institusi**
- **Memperhebatkan pengantarabangsaan**
- **Membudayakan pembelajaran sepanjang hayat**
- **Sistem penyampaian**

7 ENABLER

- **1. tadbir urus yang baik,**
- **2. membangun, mengupaya bakat,**
- **3. memupuk warga bertanggungjawab,**
- **4. penyelidikan & inovasi,**
- **5. kewangan,**
- **6. memposisi (positioning) &**
- **7. perkhidmatan**

PELAJAR APEX

- 1. Set minda Global
- 2. Berpengetahuan global
- 3. Kekuatan budaya persekitaran;
- 4. Kemahiran kukuh komunikasi
- 5. Mengurus perhubungan kompleks interpersonal

Tadbir Urus Insaniah BERAMANA / “human governance”

Transformasi USM APEX.

“Lautan Biru”, Yang Berkesan

**autonomi dari kerajaan
tadbir urus berkredibiliti &
sistem audit
birokrasi**

**Program penghapupayaan
Program pemerkasaan**



PELANCARAN APEX FASA 2 (2014-2018)



KEY RESULT AREAS

APEX FASA 2

Summary of Plans

AKRA (APEX KEY RESULT AREAS)	Pillars	Programmes	Quick Win	Projects
1. Global Research Prominence - WRU	Research & Innovation	6	7	
2. Part of Developed Nation Builder	Leadership and Nation Building	4	1	
3. Transformation of Higher Education Institutes	APEX Sharing	3	1	
4. Visible, Distinctive and Competitive	APEX Extension and Positioning	13	3	
5. Prominence in Sustainability	Academic and Students Development	5	1	
6. Financial Autonomy	Financial Sustainability	6	1	
7. Enhanced and Empowered USM	Institutional Development	5	1	
7 KEY AREAS	7 PILLARS	42	15	57 PROGRAMME



APEX FASA 2 IMPLEMENTATION PROGRAMMES OVERVIEWS



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UNIVERSITI SAINS MALAYSIA
11800 USM, PULAU PINANG, MALAYSIA



The **WHITE BOOK** on

APEX

Phase II

2014-2025

The **WHITE BOOK** on
APEX Phase II 2014-2025



USM 2014 PROSPEK

**Mencapai Kecemerlangan melalui
keterangkuman dan kelestarian**



PILLAR

APEX Research & Innovation

▶ Global Research Prominence



APEX Research and Innovation

Global Research Prominence

APEX Phase II

Achieving Global Research Prominence

**Achieving Global
Research Prominence**

Research Icons

Iconic Research

Next Generation Researchers

Upgrading & maintaining State Of Art
Infrastructure

Research-to-market Program



Gemini



P1

APEX Research and Innovation

Global Research Prominence

APEX Phase II

Iconic Research

- ▶ Selected ARIs, RUC and LRGS will be developed into iconic research that will result in outcome that is of high impact to the nation.
- ▶ Strategic partnership with various Ministries such as Home Ministry and also the research division of Government Linked Companies such as Khazanah Nasional, Permodalan Nasional Berhad to conduct iconic research funded by both sides.



KHAZANAH
NASIONAL



Permodalan Nasional Berhad

Research Icons

- ▶ Increase the number of USM researchers that are recognized as world renowned research icons in their respective field.
- ▶ Staff placement in world renowned laboratories and enhancing presence in Editorial Boards of world renowned refereed journals.
- ▶ Nurturing young researchers in USM to become world renowned research icons through a series of seminal workshop facilitated by nobel laureates.
- ▶ The presence of world renowned research icons among USM researchers will brand USM as a world renowned research institution in selected research areas.

P1

State of Art Research Infrastructure

- 
- Partnership between public and private institution to upgrade and maintain state of the art laboratories.
 - Source for funding will be win-win partnership from public and private sector for shared state of the art facilities
 - ◆ CCB
 - ◆ Doping & CAATS
 - ◆ INFORMM
 - ◆ Brains Science

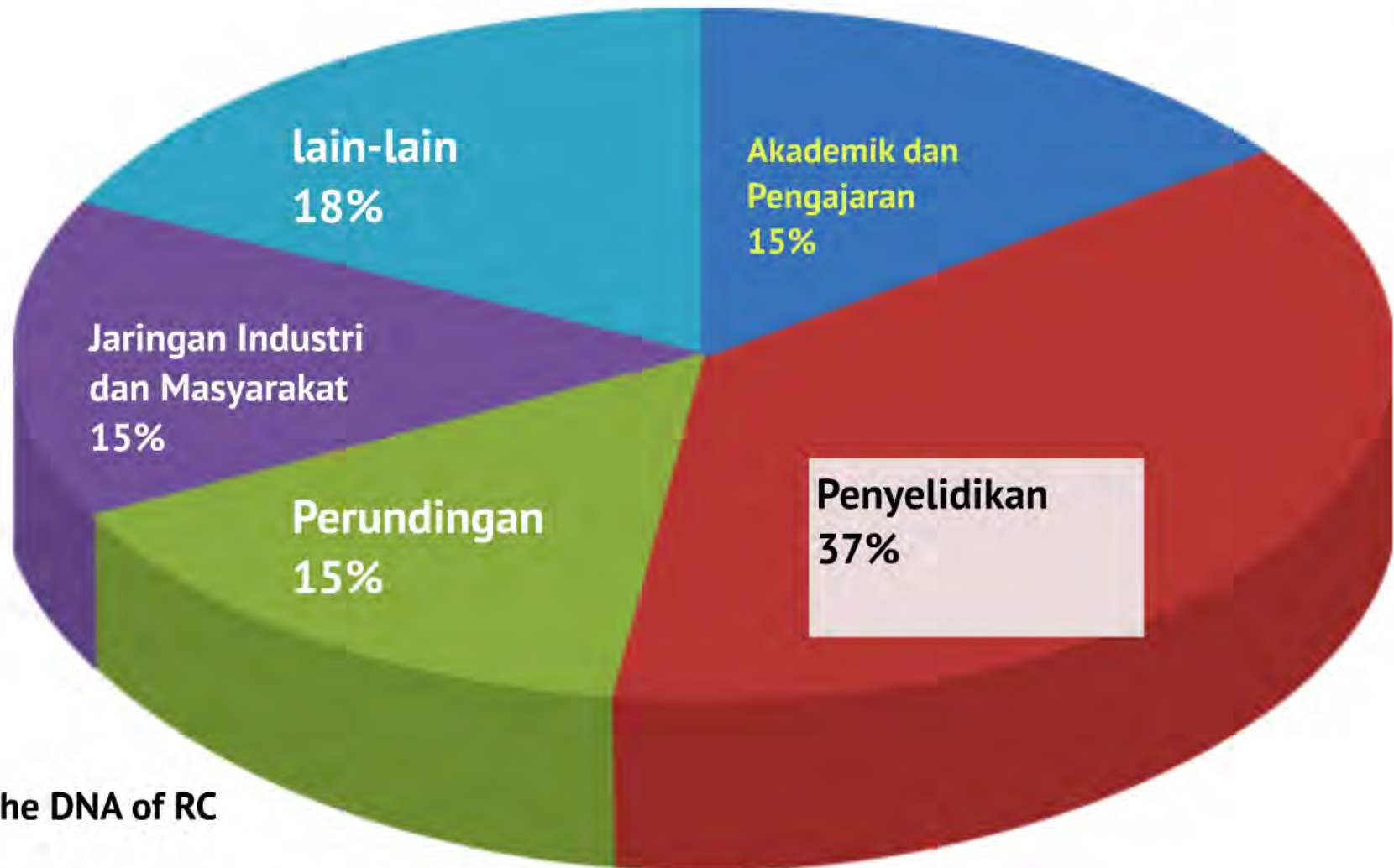
USM Advanced Research Initiatives ARIs

- **Research Initiative Projects** - translate USM's aspirations to emerge as a leading research institution, championing sustainability agenda.
- Can be individuals, teams, clusters or Centres of Excellence, groomed under the USM research ecosystem
- plans to gather researchers of various disciplines from across the university as well as counterparts, locally and internationally
- to embark on research journey that would transform lives and give impact to society and wealth for the country

PENYELIDIKAN BERPOTENSI

Category		No.
Existing Institutional Level	Research-based	16
	Service-based	8
Existing National Level (HiCoE)		2
Potential	RUC	6
	LRGS	8
	Others	5
Total		45

DNA USM (PUSAT PENYELIDIKAN)



The DNA of RC

Strategi untuk HiCoE sedia ada diperkembangkan

- membina brand global
- membina tujahan diiktiraf
- membina rangkaian luar dengan Global CoEs

School of Health Sciences

- 4 Does Secondhand Smoke Affect Pregnancy?
- 5 Water for Life: Managing and Improving Water Environment
- 6 Understanding the Association between Childhood Trauma, Personality Disorders and Aggressiveness among Male Offenders.

JSM Hospital

- 7 Ezi-Crutch: A Three-in-one Walking Aid
- 8 I-MOD: Smart Modality : A Multipurpose Equipment for Bedridden Patients

Social Transformation & Humanities



- 17 Intensifying Sustainable Tourism Research
- 19 AURA Biopsychosocial
entailing paradigm shifts towards achieving the APEX aspirations
- 21 Historical-Socio Culture-Geography Research Group
natural and cultural historical heritage - Penang, Perlis, Kedah and Northern Perak

Advanced Medical & Dental Institute

- 20 Toothbrush With Bristles in an Isosceles Configuration
- 21 A New Diagnostic Test for the Laboratory Diagnosis of Melioidosis

CLINICAL & HEALTH SCIENCES

MY Human Variome Project

Mapping breast and cervical cancers

Behavioural changes for drug addiction

Biomaterial implants and prostheses

BRAINetwork

Medicinal bee rearing business

Honey-based inhaler for asthma

Personalized HIV medicine

Smart use of antibiotics

Baking soda for kitchen malodour

Pembangunan Bakat - Strategi

- **Memperkaya Budaya Penyelidikan**
 - **Pensyarah 1 geran penyelidikan - Penyelidik Utama**
 - **Penyelidikan bertahap tinggi**
 - **Penyelidik menjadi penyelidik memimpin**
-
- **Pusat perkhidmatan Penyelidikan akan di tingkatkan untuk memacu penyelidikan di Universiti dan menyediakan perkhidmatan diluar.**
 - **Strategi: Untuk HiCOE, penilaian sendiri, akan diberi sokongan sumber dan kewangan**

PILLAR

2

APEX Leadership and Nation Building Program

▶ Developed Nation



APEX Leadership and Nation Building Program

Developed Nation

APEX Phase II

APEX Leadership and Nation Building Program



Pillar 2

P2



APEX Leadership and Nation Building Program

Developed Nation

APEX Phase II

Pillar 2



APEX Scholar

POSTGRADUATE
EDUCATION

Unique modules designed to develop interdisciplinary thinking. Learning beyond classroom through wide range of research, internship, community involvement, and study abroad opportunities.

Aim to produce graduates with intellectual rigour, initiative, and innovative spirit to make significant contribution to the society.

30% of their academic work, **70%** in their home schools.

An honours programme, graduate with an honours degree from their school, and a certificate that recognises them as University Scholars



APEX Leadership and Nation Building Program

Developed Nation

APEX Phase II



APEX College

TERTIARY
EDUCATION

- This is a preparatory college to groom students for USM undergraduates programmes. The college will offer pre-U programmes using specially designed curriculums, benchmarked and modelled after International Baccalaurette (IB) World School.
- USM will collaborate with MARA and other private institutions which offer pre-U and matriculation programmes.
- Each year USM will produce about 500 students for various fields namely Medical and Health Sciences, Pharmaceutical Sciences, Liberals Arts, Accounting and Finance, Economics, etc
- Besides the APEX College program, USM will also link up with selected secondary schools in a support program called the APEX School program



IF YOU VIEW THE WORLD DIFFERENTLY, WE WANT YOU



+

The USM Global Fellowship is open for application to all nationalities across the globe who aspire to pursue full time Doctoral studies in various research fields with Universiti Sains Malaysia.

+

USM GLOBAL FELLOWSHIP

TONGGAK 2:

Program APEX Pembina Pemimpin Masa Depan Negara

Meneruskan agenda membina negara bangsa.

Nilai utama APEX kepada negara ialah menjadi sebahagian daripada pembina negara.

- **Bakat terus di bina dan di tujahkan ke hadapan**
- **Bakat dibina berasas potensi**
- **USM menghasilkan pemimpin masa dengan**
- **Pengantian bakat**
- **Bakat berminda Global**



PILLAR

3

APEX Sharing

▶ Transformation of Higher Education



APEX Sharing

Transformation of Higher Education

APEX Phase II



Transformation of "Rakan RU" to RU



APEX Governance Best of Practices



APEX Knowledge Transfer Program





APEX Sharing

Transformation of Higher Education

APEX Phase II

Transformation Of A “Rakan RU” To RU

In line with Malaysia’s vision towards achieving developed nation status, more research universities must be created to support the innovation economy.

APEX University should contribute actively to the creation of additional full-fledged research universities.

To become the mentor and provide non-monetary support to “Rakan RU” Universities to achieve Research University status



APEX Governance Best Practices

**The characteristics of good governance.
To establish and build a good internal system
Build up the autonomy status of the University.**

The transformation in 3 key activities, namely:

- **services, administration and financial;**
- **nurturing and learning; and**
- **research and innovations**

TONGGAK 3 : Perkongsian APEX

- **Transformasi Pengajian Tinggi bermula transformasi institusi.**
- **Universti Apex - memula, berkongsi dan memindah yang terbaik.**
- **Komuniti kampus cakna - perkongsian ilmu dan perpindahan ilmu.**
- **Asas – permintaan institusi tersebut selain daripada berasaskan kepada keperluan yang dikenal pasti.**



4

PILLAR

APEX Extension & Positioning

▶ Visible, Distinctive and Competitive

PILLAR 4: MEMPOSISI DAN PROGRAM LUAR

- **Universiti Memimpin Lestari yang Tersendiri**
 - **Kelestarian merentasi bidang, bidang penyelidikan akademik perkhidmatan pelajar dan staf**
- **Programm WEHAB +3**
 - **(Water, Health, Energy, Agriculture and Bio Diversity + Climate Change/Disaster Risk Management, Production and Consumption and Population and Poverty.**
- **Program kelestarian dalam praktis**
- **Sustainability Assessment Methodology (SAM) alat yang dihasilkan untuk**
 - **indikator penilaian kualiti kelestarian**
 - **boleh menjadi alat untuk pembuat keputusan.**



Libat sama Komuniti yang Inovatif
Berfokus

Berasas kepada keperluan komuniti

Sukarelawan

Kepakaran

Menghidupkan komuniti berasaskan ilmu

KTP : Program APEX

Mekanisma menghasilkan Penyelidikan Relevan kepada Industri dan Komuniti

Kemudiannya boleh di komersilkan oleh Industri

PEMANDU sudah menjadi Stakeholder baru

300 projek

KTP Centre

Kerajaan Negeri



USM KTP IPTA ROLLING PLAN 2011-2014 ACHIEVEMENT

USM KTP Apps

KTP Industry/FI
= 87

KTP Community FC
= 118

Total USM Apps = 205

USM KTP Successful + Short-Listed Apps

KTP Industry/FI
= 32

KTP Community/FC
= 29

Total USM Successful + Short-Listed Apps = 61

Total Value Estimated = RM 8,739,228.50

Sustainability Assessment Tools in Higher
Education Institutions
Mapping Trends and Good Practices Around the
World

Caeiro, S.; Leal Filho, W.; Jabbour, C.;
Azeiteiro, U.M. (Eds.)

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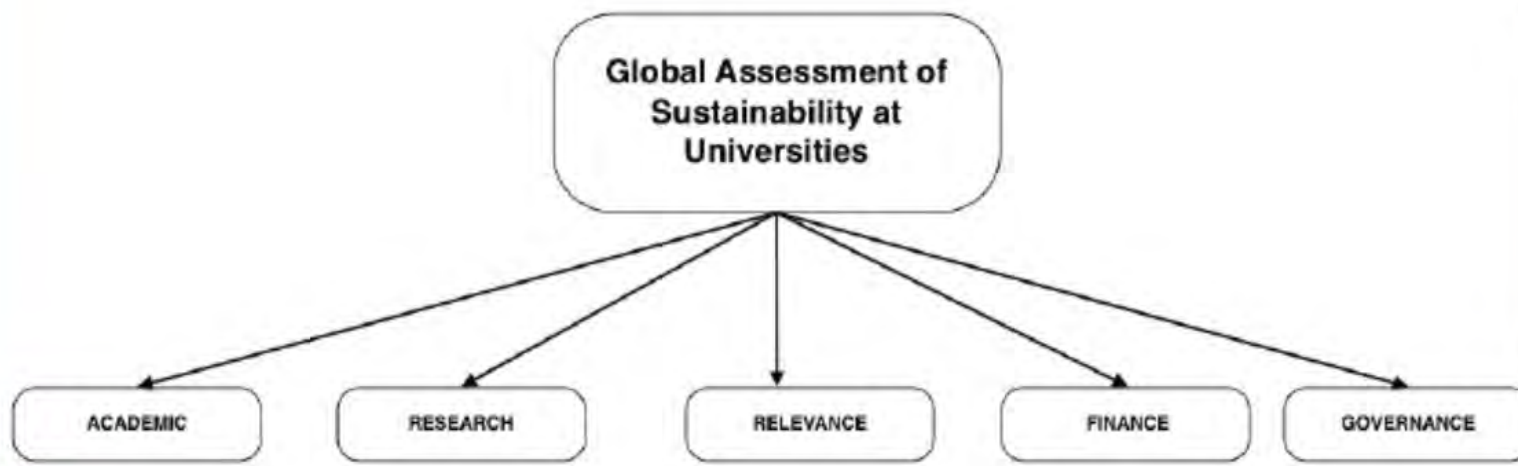
Sandra Caeiro
Walter Leal
Charbel Jabbour
Ulisses Azeiteiro *Editors*

Sustainability
Assessment Tools
in Higher Education
Institutions

Mapping Trends and Good Practice
Around the World

 Springer

To propose a Global Assessment of Sustainability at Universities



GHE-SAM- Global
Higher Education SAM

WUSA- World University
Sustainability Assessment

The proposal will be based on Sustainability Assessment Methodology (SAM) developed at CGSS





USM Global Network :

USM Global Network will house global network secretariats that facilitate, coordinate and provide services to the members of their network.

GLOBAL NETWORK SECRETARIATS UNDER USM



USM currently has FOUR global network secretariats:

1. Asia-Pacific University-Community Engagement Network (APUCEN)



2. South East Asian Sustainability Network (SEASN)



3. Global Higher Education Network (GHEN)



4. ASEAN Local Knowledge Network (ALKN)



No.	Network	No. of Membership	Member Countries
3.	Global Higher Education Network (GHEN)	40	10 Malaysia, Indonesia, Japan, Tunisia, Pakistan, UAE, Bangladesh, Italy, Nigeria, Australia
4.	ASEAN Local Knowledge Network (ALKN)	47	5 Malaysia, Indonesia, Thailand, Philippines, Cambodia

No.	Network	No. of Membership	Member Countries
1.	Asia-Pacific University-Community Engagement Network (APUCEN)	64 61 Institutional Members 1 Affiliate Member 2 Associate Members	14 Malaysia (25), Indonesia (10), Thailand (8), Australia (5), Pakistan (3), India (2), China (2), Philippines (2), Cambodia (2), Japan (1), Taiwan (1), Brunei Darussalam (1), Fiji (1), Germany (1)
2.	South East Asian Sustainability Network (SEASN)	37 Higher Education Institutions and other related sustainability institutions in ASEAN countries	4 Malaysia, Indonesia, Thailand, Philippines



**TERKENAL SEBAGAI
UNIVERSITI KELESTARIAN
DI DUNIA**



PILLAR

5

APEX Academic and Student Development

- ▶ Prominence in Sustainability and Global Mindset



**JAGA
KESIHATAN
FIZIKAL
AKAL DAN
KEROHANIAN**