





MENGATASI BERSAMA KESAN TSUNAMI GLOBALISASI

GAYA USM

"Rising above the tsunami effect of globalization together... USM style"

Profesor Datuk Dr. Asma Ismail, FASc

14.2.2017 8.30 Pagi Dewan Tuanku Syed Putra Kampus Induk 15.2.2017 8.30 Pagi Auditorium Kompleks Dewan Kuliah Kampus Kejuruteraan

16.2.2017 8.30 Pagi Dewan Utama Kampus Kesihatan







www.usm.my

Perutusan Tahunan Naib Canselor 2017

Alhamdulilah

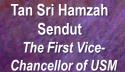
Today marks my 134th day as VC@USM











Tun Hamdan Sheikh
Tahir
The Second ViceChancellor



Tan Sri Musa Mohamad The Third Vice-Chancellor



Professor Dato' Dr Ishak Tambi Kechik The Fourth Vice-Chancellor



Professor Tan Sri Dzulkifli Abdul Razak The Fifth Vice-Chancellor



Profesor Dato' Dr.Omar Osman The Sixth Vice-Chancellor

Kami Memimpin | We Lead







Why I returned to

USM?

Qada' dan Qadar It is my destiny



What do I want the university to be?

Purpose-Driven University

QUANTUM LEAP USM to a new level by **DESIGN** and not by CHANCE

....USM style

Melonjakkan USM dengan rekacipta tersendiri dan tidak mengharap pada nasib





Enhance and consolidate APEX University











Perutusan Tahunan 2017 Universiti Sains Malaysia

Challenges to higher education in the 21st century

Kami Memimpin | We Lead www.usm my





Higher education potential

- Education is a lucrative economic sector with a global annual fee income estimated at US\$30 billion, and this market has been growing at an annual rate of seven percent since 1990s (Economist, 2005).
 - It is estimated that Asia will dominate the global demand for international higher education for the next two decades.
 - The demand is forecasted to increase from 1.8 million in 2000 to 8.4 million international students in 2025.
- This is a potential that Malaysian Higher education should tap into.



Challenges of the 21st Century

The world is changing and the demands on higher education is changing.

We have to learn to accept 21st century realities.

Change is inevitable (perubahan yang tidak dapat dielakkan)

Accelerating PACE of CHANGE due to DIGITAL age

ASEAN economic community

GLOBAL Economic crisis

GLOBAL
Competition due to
GLOBALIZATION





Globalization can be defined as the broad economic, technological and scientific trends that directly affect higher education.

It allows the global flow of trade, knowledge, investment, capital, people and popular culture.

In combination with information age, the world is a borderless village







Kami Memimpin | We Lead



Impacts on higher education

- Massification of higher education (Menyebarluaskan Pendidikan. Tinggi)
 - No of of students needing higher education is more than the number of seats available in the university.
 - There is a need to change the delivery of the curriculum so that more can be educated without having to be in the classroom.
 - Need for blended learning.





Impact of the challenges

- With the advent of the global economic crisis, students today need to work while obtaining a degree
- Education today need to move from structured to FLEXIBLE Education
 - Re-think Teaching
 - Re-design learning



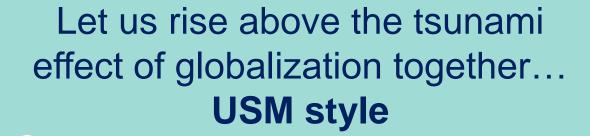


How do we go about it?

- Accept the need for CHANGE brought about by globalization. This will allow USM to shape the future of higher education
- As we embark on our journey to evolve for tomorrow, we need to focus on what we can UNIQUELY contribute to our stakeholders.
- We need the feedback from our stakeholders to determine how we need to move forward and formulate our response.
- Its important that we know what students are thinking, what the community is thinking, what the nation is thinking, and what our peers and strategic partners think about us.
- The journey ahead will require that we learn from the past, in order to evolve today and create new opportunities tomorrow.

Clarity of purpose

- As we strive forward we need to set high ambitions. If we think small, we get modest results. If we think big, you get big results... most of the time.
 - This means there is a need for clarity of purpose and sense of mission that will allow us to work together to strive for the impossible and deliver it.
- The tsunami effects of globalization on higher education is real and it is here to stay. Together we will deliver the impossible.





Global prominence

Financial sustainability

Happiness index

Emphasis on





Perutusan Tahunan 2017 Universiti Sains Malaysia

Global Prominence

Kami Memimpin | We Lead

WWW.USM9 My

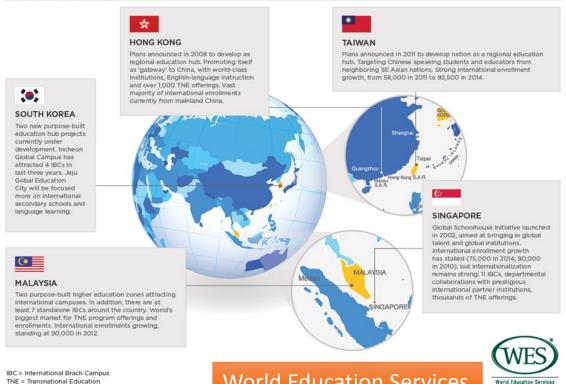
Global prominence via RDCI

- Let me begin with global prominence via RDCI
- USM is a Research University. As a research-intensive university we should produce new knowledge and this knowledge should be disseminated to the students and shared with community and industry to create wealth for the country.
- As a research university we should set the trend of technology and change the academic content of our curriculum with the latest research findings.
- As an APEX university we should use the knowledge to transform the economic well being of the bottom billion
- We cannot run away from our responsibility as a research university and our apex agenda.



Malaysia as the Regional hub for higher education

INTERNATIONAL EDUCATION **HUBS IN ASIA**



What's our attraction?

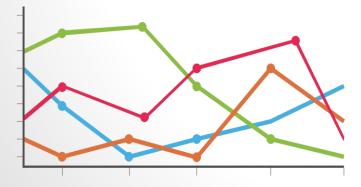
- 1. World's biggest market for transnational education
- 2. Anchor Universities (individual universities in the rankings);
- 3. Quality education system in the country yet affordable

TNE = Transnational Education

World Education Services

Addressing the ranking game

- Whether we like it or not, to be an international attraction for foreign students to come to Malaysia, we cannot avoid the ranking game.
- Ensure the ranking indicators that we respond to is aligned with our fundamentals and we do not go overboard with the indicators that do not align with our fundamentals.
- What is important is that we must acknowledge that RDCI will make or break a research university.
- I keep reminding myself that failure of leadership is when we see a downward pattern and we did not do anything to address it.









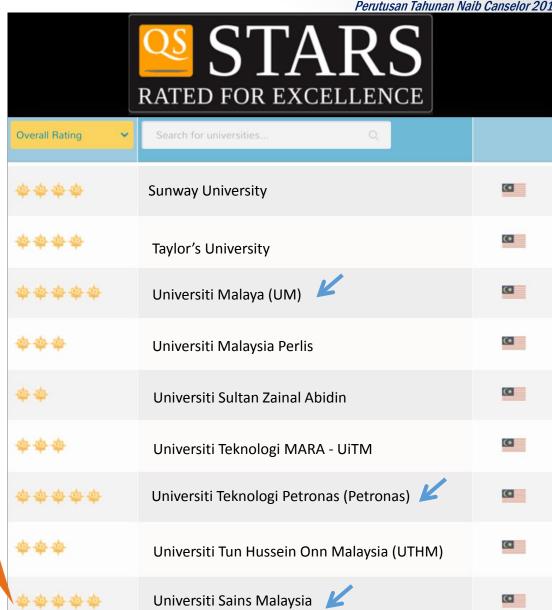




Pencapaian Universiti



Updated: 19/12/2016 **QS Official Website**



RECOGNITIONS



Perutusan Tahunan Naib Canselor 2017

Rising Stars of the Higher Education World

Top 50 universities under 50 years old



UNI	VERSITY	RANK
UPM RR UPM WHEN HAR WASHEST TO SEE THE	UNIVERSITI PUTRA MALAYSIA	17
UTM SWEEDETH TEXOCLOGY MALATEM	UNIVERSITI TEKNOLOGI MALAYSIA	25
WINVERSITI KEBANCSAAN MALAYSIA National University of Malaysia	UNIVERSITI KEBANGSAAN MALAYSIA	26

UNIVERSITI SAINS MALAYSIA 33



by FACULTY RANKINGS



Faculty excellence among the Top 100 in the world

SOCIAL SCIENCES & MANAGEMENT

UNIVERSITY	2014		2015
UNIVERSITY OF MALAYA	123	M	69
ENVISOR SHE HA ACIA	161	M	89
UPM	232	M	152
L-CONTRACT CANADA AND AND AND AND AND AND AND AND AN	196	M	161
OUTM	283	M	211
UNIVERSITI TERNOLOGI MARA	350	M	327

ENGINEERING & TECHNOLOGY

UNIVERSITY	2014		2015	
UNIVERSITY OF MALAYA	83	M	54	
BINSON SHE HAVISA	122	M	85	TO:
OUTM	134	M	100	
UPM	161	M	133	
Understall Registration Management of the Control o	186	M	149	
UNIVERSITI TERNOLOGI PETRONAS	335	M	288	





Did you know?



For Life Sciences & Medicine, Universiti Sains Malaysia Academic Reputation is ranked at 53 in the world

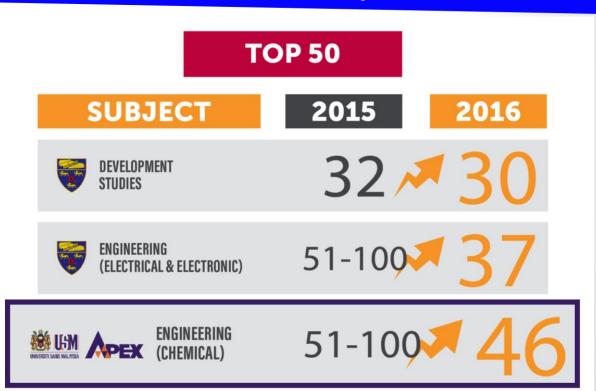
	1	Z	Harvard University	100.0
	17		University College London (UCL)	90.2
	28	Z	Monash University	87.1
1	48		Nanyang Technological University	82.7
	48		Universiti Malaya (UM)	82.7
	51		University of Pennsylvania	82.6
	53		Columbia University	82.0
	53	/	Universiti Sains Malaysia (USM)	82.0
	53	<u>/</u> /	Universiti Kebangsaan Malaysia (UKM)	82.0
	2000	<u> </u>	Universiti Kebangsaan Malaysia (UKM)	
	57		Universiti Kebangsaan Malaysia (UKM)	81.7
	57 67		Universiti Kebangsaan Malaysia (UKM) University of Glasgow	81.7
	57 67 77		Universiti Kebangsaan Malaysia (UKM) University of Glasgow Princeton University	81.7 80.6 79.4

Achievements



Subject / Faculty:

For the first time in history, three subjects offered by our public universities were ranked in the world's top 50.



But we used to have 4 in 2016. USM dropped in Environmental studies

Recognition





Perutusan Tahunan Naib Canselor 2017

TOP 50 & TOP 100 IN THE WORLD



Development Studies - 30 th * TOP 50 Engineering - Electrical & Electronic - 37th*TOP 50

Architecture / Built Environment **Computer Science & Information Systems** Education **Engineering - Chemical** Engineering - Mechanical, Aeronautical & Manufacturing

English Language & Literature

Linguistics

Engineering – Chemical – 46th *TOP 50 Architecture / Built Environment

Computer Science & Information Systems

Development Studies Education

Engineering - Electrical & Electronic

Engineering - Mechanical, Aeronautical & Manufacturing

Environmental Sciences

Pharmacy & Pharmacology



Architecture / Built Environment Education **Engineering - Chemical** Social Policy & Administration



Architecture / Built Environment **Engineering - Chemical Engineering - Electrical & Electronic**



Agriculture & Forestry

9 subjects in top 100

UNIVERSITI SAINS MALAYSIA







	UNIVERSITI SAINS MALAYSIA (USM) - SCHOOL OF MANAGEMENT AND GRADUATE SCHOOL OF BUSINESS	2	70‰
	UNIVERSITI PUTRA MALAYSIA (UPM) - PUTRA BUSINESS SCHOOL	1	114‰
18	3 PALMES OF EXCELLENCE - EXCELLENT BUSINESS SCHOOL WITH REINFORCING INTERNATIONAL INFLUENCE	RANK BY PALMES LEAGUE	DEAN'S RECOMMENDATION RATE 2016
	UNIVERSITY OF MALAYA - FACULTY OF BUSINESS AND ACCOUNTANCY	1	140‰
*	4 PALMES OF EXCELLENCE - TOP BUSINESS SCHOOL WITH SIGNIFICANT INTERNATIONAL INFLUENCE	RANK BY PALMES LEAGUE	DEAN'S RECOMMENDATION RATE 2016

Kami Memimpin | We Lead www.usm.my



Malaysia's Rising Stars Award 2015 -2016

Lecturers & Research



Outstanding Research ACHIEVEMENTS







Perutusan Tahunan Naib Canselor 2017



4 m 32

Top Research Scientist Malaysia by ASM (2010 - 2016)



10

Rising Star (2015 - 2016)



The Most Cited Researchers **Shanghai Academic** Ranking of World Universities (ARWU) -(2016)



The World's **Most Influential Scientific Minds** (2014 - 2015)



Data update: 8 December 2016 **Excellence in Research**

RECOGNITIONS







Perutusan Tahunan Naib Canselor 2017









2014

Professor Dr. Saidur Rahman Engineering UNIVERSITY OF MALAYA



Professor Dr. Ishak Hashim School of Mathematical Sciences Science & Technology





Professor Dr. Bassim H. Hameed Chemical Engineering





THOMSON REUTERS

THE WORLD'S MOST INFLUENTIAL SCIENTIFIC MINDS



Professor Dato' Ir. Dr. Wan Ramli Engineering





2015

Professor Dr. Bassim H. Hameed Chemical Engineering





Professor Dr. Siti Kartom Kamarudin Engineering





2016

ACADEMIC RANKING OF SINCE WORLD UNIVERSITIES

USM, UTM scholars among most cited

MAJOR RECOGNITION: Success attributed to dedicated groups, world-class facilities

O.C. YEOH ocynologist.c

POUR academicians from two local universities have been listed among the Most Cited Researchers in the latest Shanghai Academic Ranking of World Universities 2016 by Subjects. Representing various fields of

engineering three of these top researchers hail from Universiti Sains Malaysia (USM), while the fourth is from Universiti

Teknologi Malaysia (UTM).

USM's most cited researchers are
Professor Dr Bassim H. Hameed and Professor Dr Lee Keat Teong from the USM School of Chemical Engineering, and Professor Dr Hanafi Ismail from the USM School of Materials and Mineral Resources

UTM's deputy Vice-Chancellor (Research and Innovation) Professor Dr Ahmad Fauzi Ismail was also listed as one of the Most Cited Researchers for Chemical Engineering.
Bassimwas cited as being top in the field of

Chemical Engineering and Environmental Science and Engineering, Hanafi is in the field of Chemical Engineering and Lee in

the field of Energy Science and Engineering Bassim said he was both proud and honoured to have been recognised for his research work in Chemical Engineering and Environmental Science and Engineering by the Shanghai Jino Tong Academic World University Rankings.

Before this, he was listed by Thomson

Reuters as among the World's Most always been his Influential Scientific Minds and also the Highly Cited Researcher for 2015 and 2014 his findings with in the field of Engineering.

"Iwishto express my sincere appreciation to the Ministry of Higher Education (MOHE), Ministry of Science, Technology & hope that it will Innovation (MOSTI) and USM for granting me funds to make my research possible," advancement of





THE MOST CITED **RESEARCHES SHANGHAI ACADEMIC** RANKING OF WORLD UNIVERSITIES (ARWU)



Prof. Dr. Bassim H. Hameed Chemical Engineering & Environmental Science



Prof. Dr. Hanafi Ismail Chemical Engineering



Prof. Dr. Lee Keat Teong

Energy (Science & Engineering)

RESEARCHERS	SUBJECTS	INSTITUTION	
Hamand Bassim H	Chemical Eng	LICNA	1
Hameed, Bassim H	Environmental Sci & Eng	USM	
Ismail, Hanafi	Chemical Eng	USM	4
Ismail, Ahmad Fauzi	Chemical Eng	UTM	
Lee, Keat Teong	Energy Sci & Eng	USM	4

Professor Dr Lee Keat Teong and Professor Dr Post-Doctoral Fellows as well as the technical personnel and our national and international collaborators," he said. to cooperate with others in their research." "To me, publication is one of the most impactful media for scientific and applied

Lee, who is director of the USM Research Creativity and Management Office (RCMO) and director of the USM International
Collaborations Office, said that it has
communicating ideas and scientific

(clockwise from top left) Professor Dr Bassim

H. Homeed Professor Dr Honofi Ismail.

in his field around the world, with the



Dr Omar Osman

scientists and researchers to publish their high quality research findings

"It also serves as

of the efforts in research and innovation. leading to academic writings published in various journals and cited by other

cademicians all overthe world "said USM

He said that explained the success of the three USM academicians being listed as Most Cited Researchers by ARWU

and also in the world rankings as an acknowledgement on the achievements of

the scientists and scholars in the country.

Furthermore, it could serve as a guideline as it is conducted by those utilising widely accepted methodologies and thus would be

insparent and comprehensive.
"The achievements of USM in relation to the citations in research lournals has so far

been maintained within the past five years, to be the best in the country and among the

best at the international stage " said Omar

"This achievement is thanks also to the concerted efforts and dedication of

everyone in the Advanced Membrane Technology Research Center (AMTEC), including academic staff, students and

research outcome communication.

Ahmad Fauzi said it was a great honour be included among the Most Cited

in high impact journals. "At the same time, state-of-the-art research approaches will ensure the R&D products to be applied or marketed in the

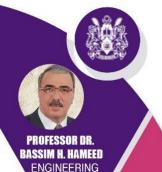
right and short time.
"It is also important to complete the research cycle where the research is structured to start from fundamental research and progressively advanced to applied, prototyping, pilot plant, demonstration and, ultimately, commercialisation."

The ARWU International Advisory Board was established in November 2011 to provide its team with global and academic serspectives on the current practice and ature projects of ARWU.

It comprises world-renowned scholars. op policy researchers and higher education eaders. The ARWU International Advisory Board Meeting is held every two years.

Kami Memimpin | We Lead





Pockets of Excellence
No new faces #muka2tujeagain



3 OUT OF 6
RESEARCHERS
ARE FROM USM.

UNIVERSITI KEBANGSAAN MALAYSIA

ENGINEERING



Clarivate
Analytics
ON HIGHLY CITED
RESEARCHERS 2016.

UNIVERSITI PUTRA MALAYSIA

COMPUTER SCIENCE



UNIVERSITI KEBANGSAAN MALAYSIA

ENGINEERING



CONGRATULATIONS

RECOGNITIONS



Malaysian & International Universities Compared

Massachusetts Institute of Technology (MIT) University of Oxford National University of Singapore (NUS) Nanyang Technological University (NTU) Monash University The University of Nottingham By 2025: 2 universities in Top 100

UNIVERSITY





We are the last among the RUs

We also do not show sustainability of cohorts

RECOGNITIONS





Perutusan Tahunan Naib Canselor 2017

Selected as FINALIST in

MOHE Entrepreneurial Award

2016 (MEA2016) - Public

University







Heart to heart on RDCI at USM

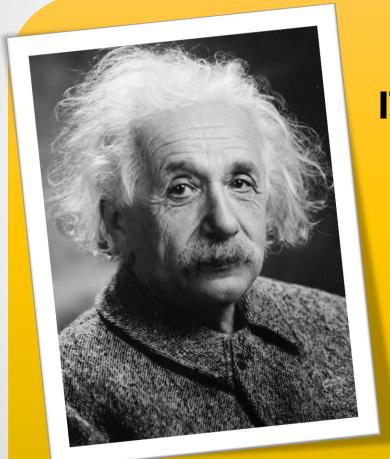
From nowhere we went into the finals at the MEA and was announced that we were close second to UPM. What made UPM win is that their commercialization policy is way ahead of us and they have many impactful products

I want to congratulate USMMers for trying our level best to win the hearts of the judges but what we have managed to show is POCKETS OF EXCELLENCE.

To me it is no longer about winning. The MEA award forced USM to look closely at our policies on being an entrepreneurial university, our commercialization policies and whether we can be a sustainable as a Research university



Some of the things we do have got to change



IT IS INSANE TO CONTINUE
TO DO THE SAME THING
OVER AND OVER AGAIN
AND EXPECT TO GET
DIFFERENT RESULTS

Einstein



OPLE GROW,

REFERRE



Perutusan Tahunan Naib Canselor 2017

MOHE'S R&D ROADMAP: Value Chain Pathway

Paradigm shift in HOW we aproach the RDCI value chain

Delivering Excellence

2016-2025

High Tech ← High Touch

2010-2015

Enhancing Performance

2007 -2009

Laying the foundation

Talent Development

Research Prominence

Wealth Creation Bridging the Grand Challenge

Despite our RUs are in the top 1%, OECD report on R&D still states that Malaysian R&D need to show impact **Amanat YBM MOHE:**

2017 is the The year of translational research

New thinking in R&D&C&I @ USM





New thinking in RDCI

The global economy in the information age is no longer about cheap labour

Knowledge is now the currency of the new economy.

With the information age, location is no longer the barrier.

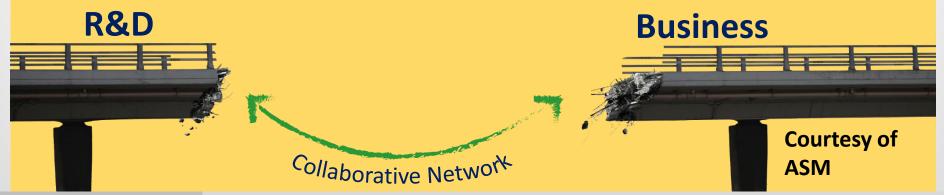
Ideas can now cross border easily and thus collaboration and information sharing now becomes important

Tomorrow is no longer about being in control but about **collaborative network with** sharing of information

As the world become more connected and collaborative, we should now be motivated to co-learn and co-create

Collaborative model is now the necessary platform to allow for technology assimilation. With assimilation we will see a a sustainable change in society Hence if we want impactful translational research we need to move into the

COLLABORATIVE MODEL APPROACH



USM's mantra for 2017

Learn **Un-Learn** Re-Learn Co- Learn **Co-Create**







Synergizing

Arts, Sciences and Technology to Action (total participation) at USM

STEM to STEAM to STREAM

Health, Medical and Clinical Science Science, Technology Science, Technology Arts, Applied Arts, Social Science Management and Humanities

SYNERGIZING Arts, Sciences and Technology

To provide comprehensive understanding of the problems that we face today, but also offer a fresh alternative in solving them

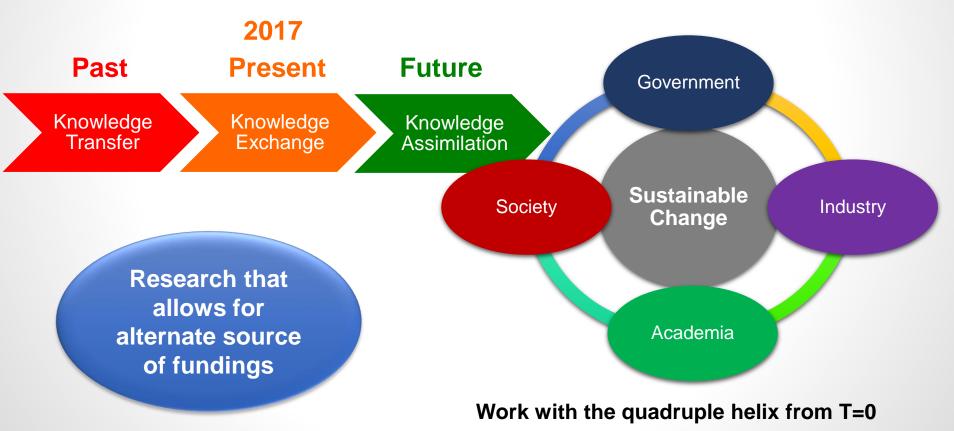
Celebrate differences and varieties

MOVING FORWARD



Perutusan Tahunan Naib Canselor 2017

Collaborative Model Approach Assimilation of Knowledge & Diversification of Source of Research Funding





Collaborative Model Approach

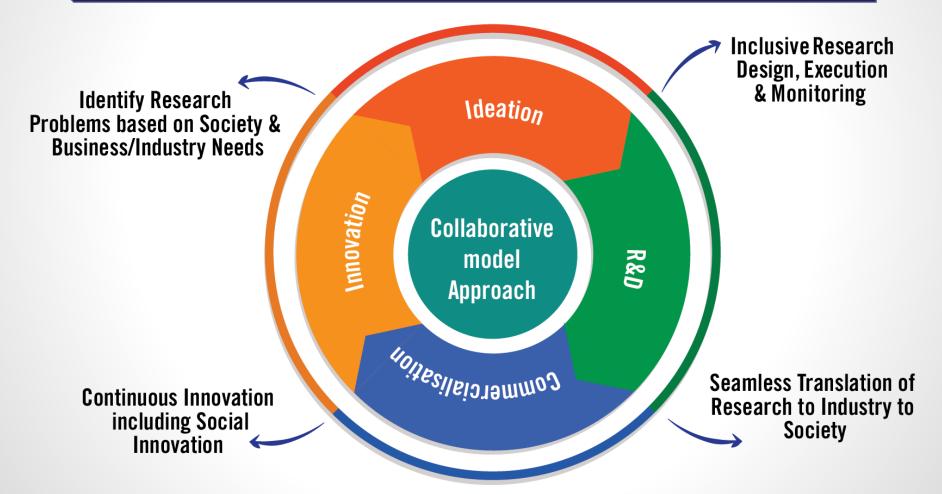
- University, Ministry, NGO, community are collaborators involved in the very beginning
- Designing of innovations are with the involvement of the industry
- Services to be provided are in collaboration with the service sector
- The R&D will be collaborative and multidisciplinary and not silo based.
 There will be convergence of technology (4th Industrial revolution) with high output for publications and IPR
- The center for collaborative approach can be demand-driven or valuesdriven. Choose research topics that can easly obtain grants via CSR from industry, endowment, waqaf as alternative to government grants.
- Providing local solutions to solve global problems via knowledge assimilation to create impact





Collaborative model:

Creation of sustainable RDCI ecosystem that assimilates the collective knowledge and resources of the quadruple helix at all stages of RDCI



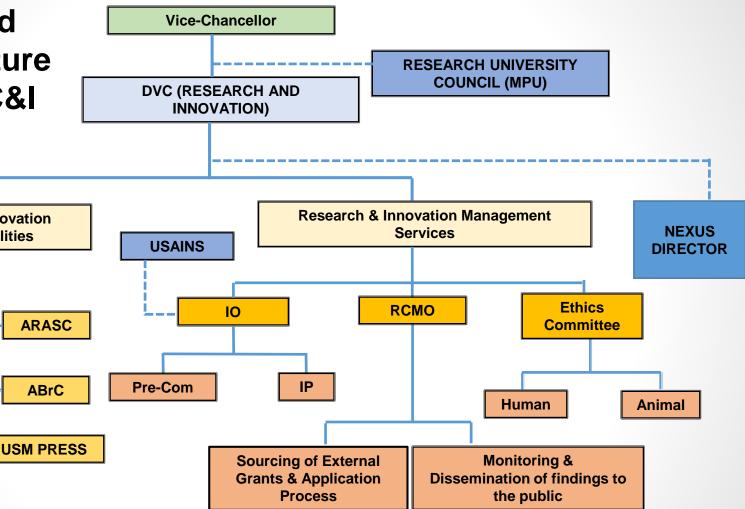


Research & Innovation

Support Facilities

ARASC

ABrC



ABrC - Analytical Biochemistry Research Centre ARASC - Animal Research and Service Centre

SERC

I²U

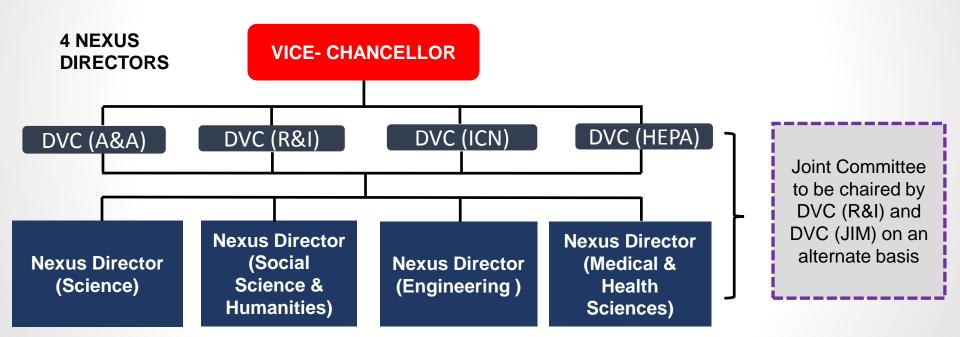
NEXUS@USM

Nurture good science and good attitude towards social wellbeing and wealth creation

Exchange ideas and expertise beyond borders

Universality: comprehend diverse range of knowledge

Salient: driving USM towards world prominence







TOR for NEXUS Directors

Lead Industry and Community **Driven Projects**

Identify and

Sourcing for Funding

Spearhead Global Challenge **Initiative (GCI)**

Terms of Reference for Nexus **Director**

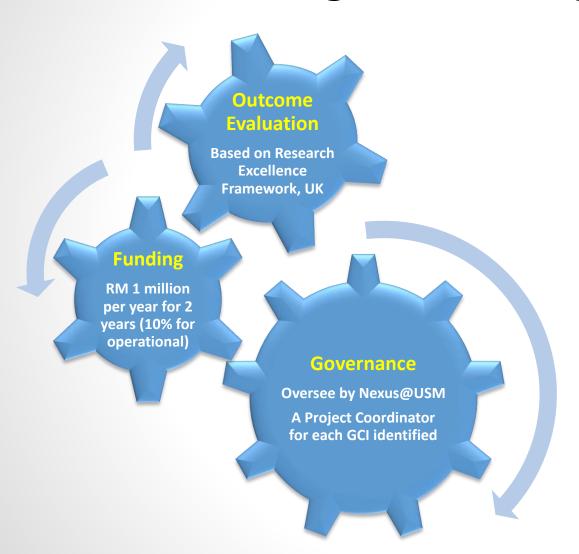
> **Strategic Planning**

Drive & Align R&I and JIM activities to PPPM (PT) & **National** Agenda

Talent Development



Global Challenge Initiative (GCI)



Philosophy:

GCI is a concerted effort by the University to address issues and challenges of global & national socio-economic importance based on a collaborative model approach through knowledge exchange with community and/or industry up until assimilation. It is a multidisciplinary approach

This will be a top down initiative that may involve all the following core activities of a university; teaching, research, outreach program, social innovations and entrepreneurship



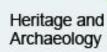








Environmental Sustainability



Well Being



Potential Global Challenge Initiatives



Disaster Management



"Transforming Higher Education For a Sustainable Tomorrow"



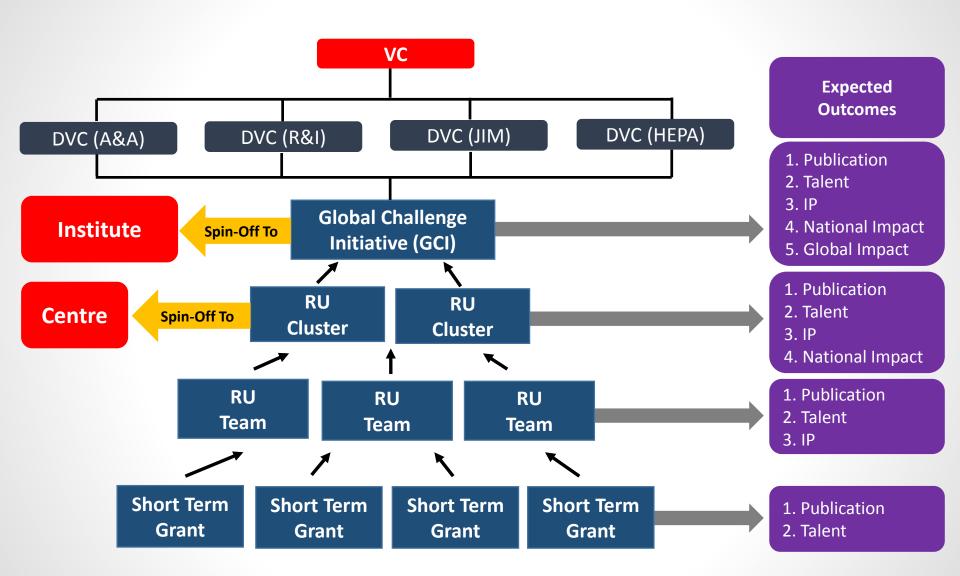
SMEs (USM4SME)



Public Sector Delivery & Productivity

Future Materials (OLED, GaN, Kenaf, Polymers, etc.)

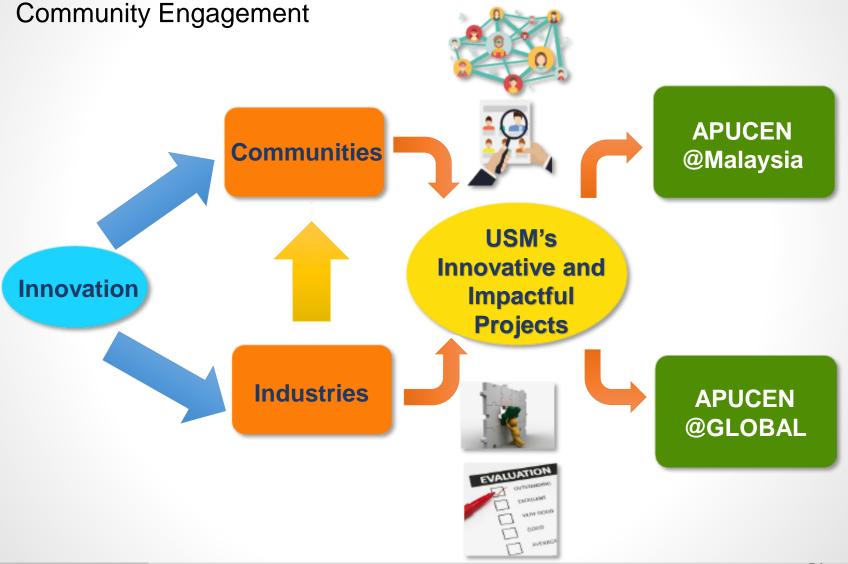




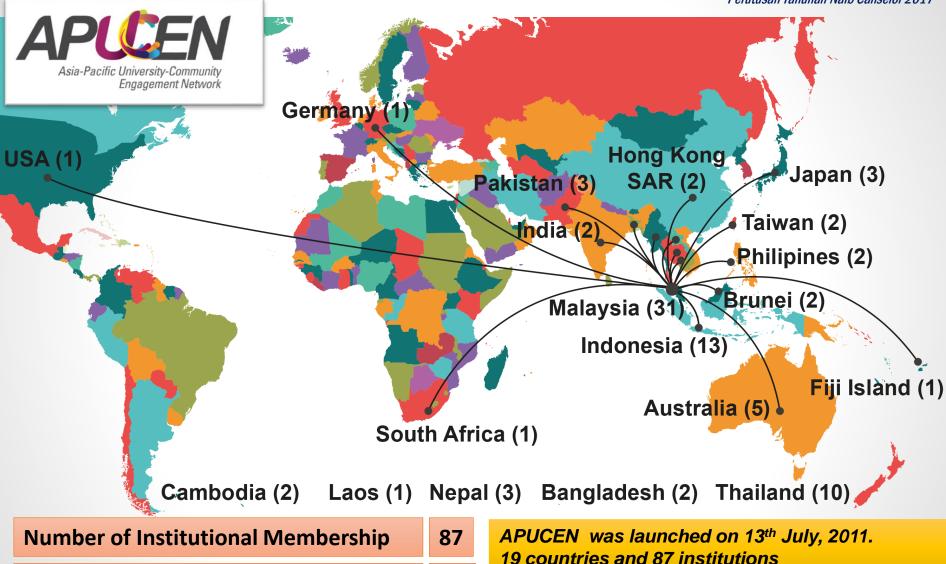




Global Prominence through **academia**-industry relationship and







Number of Country 19

55 www.iish

Hope for RDCI@USM

- We hope that the presence of the Nexus directors will help to nurture, encourage and catalyse researchers to move impactful research forward, enhance demand driven and social innovation in the country.
- What is important is that USM should conduct responsible research with integrity.
- And we need to set olympiad targets and move USM in the ranking by DESIGN and not by CHANCE.







Perutusan Tahunan 2017 Universiti Sains Malaysia

Financial Sustainability

Kami Memimpin | We Lead www.usmamy

Generating surplus for USM

- Currently government can no longer maintain the requirement for massification of higher education. This is a phenomenon worldwide.
- Hence public universities including USM have been asked to generate up to 30% of its required operationals.
- USM is a university for public good. We are not for profit organization
- Hence entrepreneurial policy must be put in place to ensure sustainability of the university
- We need to make new money and not be dependent on our reserves. We need to make the new money in matters that we are good at which is our core business.
- As an entrepreneurial university USM has not unleashed its full potential. We are working on it...fast.



BOARD OF GOVERNORS





Perutusan Tahunan Naib Canselor 2017



Members Of The Board Of Governors



Chairman Of The Board Of Governors













Government











50% Board of Governors are corporate members.

Corporate members



Secretary

TOP MANAGEMENT



Perutusan Tahunan Naib Canselor 2017



Chair of Finance Board, USM is corporate member.

Big agenda in JKPU to drive income generation up to 30% of operating budget



















Director of
Business
Development



INSTRUMEN STRATEGIK PERNIAGAAN USM



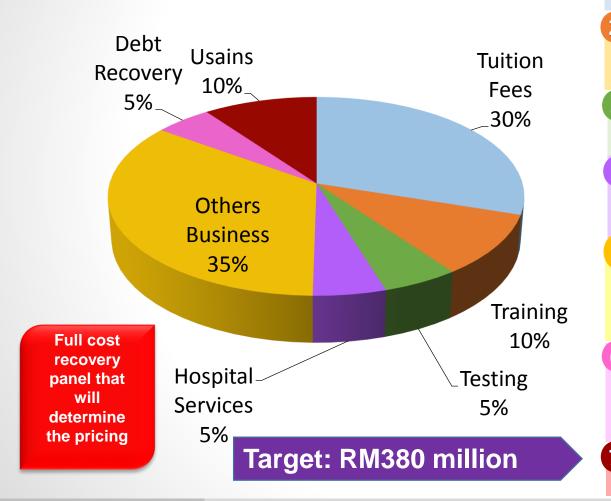
Last year we are short of 7%





USM Income Generation Strategy For 2017

This year we have a game plan



Strategic initiative: Tuition Fees

- . Charging foreign students in USD
- . Full cost fee for Medical UG Programs
- 3. Cost recovery fees of local sponsored students (T20)
- Effective marketing strategies and promotional packages to increase international students
- 5. Double/dual degree

Strategic initiative: Training

- Professional Certificates, HRDF, short term executive courses.
- 2. Student Attachment
- Mobility Programs

Strategic initiative: Testing

 Revise business model & new charges to achieve full cost recovery (ABrC, SERC, IPPT, Pusat Sejahtera, INFORMM, PPSP, other PTJs)

Strategic initiative: Hospital Services

- 1. New business models & restructure charges.
- After office clinics (Pusat Sejahtera, IPPT Dental Services, HUSM).

Strategic initiative: Other Business

- Commercialaise spaces, facilities & research products
- 2. Top performing investments & cash managements
- New business initiatives (private hospital, accommodation services, potential low risk business ventures)
- 4. Tapping to research findings potential (i.e. Archeology Centre, Sungai Batu Kedah)

Strategic initiative: Debt Recovery

- Collect 20% of outstanding debts (avg. total debt is RM90m).
- Enforce rules, contracts and agreements on debt management.
- 3. Improve operating procedures
- 4. Shared responsibility between Bursary and Legal Office

Strategic initiative: Usains

 Increase Usains contributions to USM (10% of 2017 targeted income).

KPIs – 7 Strategic Initiatives 2017

Perutusan Tahunan Naib Canselor 2017



Deep dive

1

Strategic Initiative 1: Tuition Fees

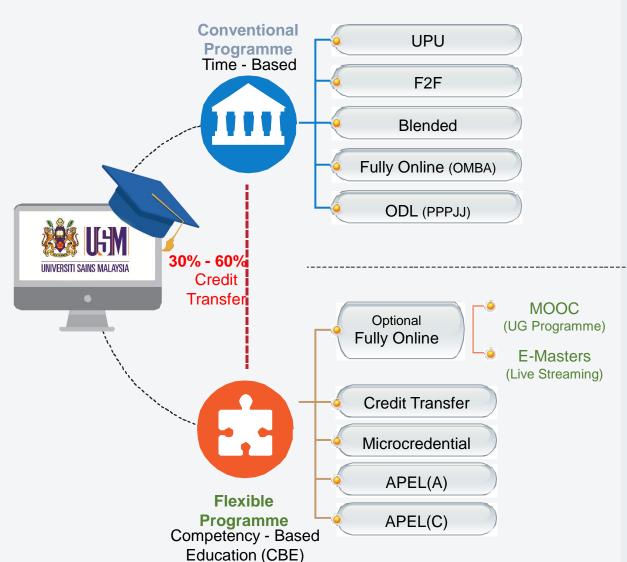
Programs	RM million
1. Undergraduate	34
2. Postgraduate	68
3. Distance learning	5
4. KLE	6
5. Offshore Programs	1
	114







MOVE TOWARDS FLEXIBLE EDUCATION



DELIVERABLES



Limited Income



Limited **Enrollment**



High Maintenance



Unlimited **Enrollment**



Low Maintenance



KPIs – 7 Strategic Initiatives 2017





Perutusan Tahunan Naib Canselor 2017

2

Strategic Initiative 2: Training

Initiatives	M million
1. Professional certification, HRDF, short-term executive courses	
a. PIPPA, USM b. HRDF c. Cost Centers (Conference/Seminars) d. USM@KL City Campus (UTM Space Model)	4 5 5 7
2. Mobility Programs 3. Student Attachment	9 8
	38

KPIs – 7 Strategic Initiatives 2017





Perutusan Tahunan Naib Canselor 2017

3

Strategic Initiative 3: Testing

KPIS will be given to PTJs

Initiatives	RM million
Revise business model and new charges (full cost recovery and competitive market pricing)	
a. ABrC	4
b. SERC	
c. IPPT	3
d. Pusat Sejahtera e. INFORMM	2 3 1 2
f. School of Medical Sciences	1
g. INOR	2
h. CEDEC i. Other cost centres	2
i. Biology	0.4
ii. Physics	0.4
iii. Chemistry	0.4
iv. Industrial Technology v. Chemical Engineering	0.4 0.4
vi. Materials Engineering	0.4
vii. House, Building & Planning	0.4
viii. Archeology	0.2

Fikir positif

KITA

CUBA

DULU

20

KPIs - 7 Strategic Initiatives 2017



Perutusan Tahunan Naib Canselor 2017

4

Strategic Initiative 4: Hospital Service

Initiatives	RM million
1 New business model and restructure of charges 2 Private wing full paid patients 3 After office clinics a. Pusat Sejahtera b.IPPT - Dental Services c.Hospital USM	0.4 0.5 18
	19

KPIs – 7 Strategic Initiatives 2017





Perutusan Tahunan Naib Canselor 2017

5

Strategic initiative 5 : Other Business

Initiatives	RM million
 Commercialising University spaces and facilities for rental Eureka/Sains@USM Cost centres Hostels Sports Arena and sport facilities Other spaces and facilities Investing in top performing cash investments Commercialisation of research products Tapping to research findings potential 	2 0.5 13 0.5 2 45 7
a. Archeology Center; Sungai Batu Kedah b. Others 5. New business initiatives	0.5 1.5 13
6. Student services	47

^{*} Student Services refers to other than tuition fees i.e registration, library, transportation, ICT. Most of these fees are due for revision

132



6

Strategic Initiative 6: Debt recovery

Initiatives

- 1 Enforcement of rules, contracts and agreements with regards to debt management
- 2 Improve accounts receivable operating procedures
- 3 Shared responsibility on debt collection between Bursary and Legal Office

RM million



KPIs – 7 Strategic Initiatives 2017



Perutusan Tahunan Naib Canselor 2017



Strategic Initiative 7: USAINS Holdings Sdn. Bhd.

Initiatives

To increase USAINS contribution to the University (10% of 2017 targeted income of USM)

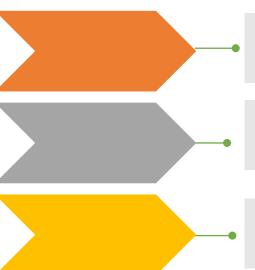
RM million





CHALLENGES TO INCREASE NUMBER OF FOREIGN STUDENTS

CHALLENGES



Increase enrolment of international students

Increase number of students participating in mobility programmes

Strengthening USM's Education brand









NEW STRUCTURE: USM **INTERNATIONAL**

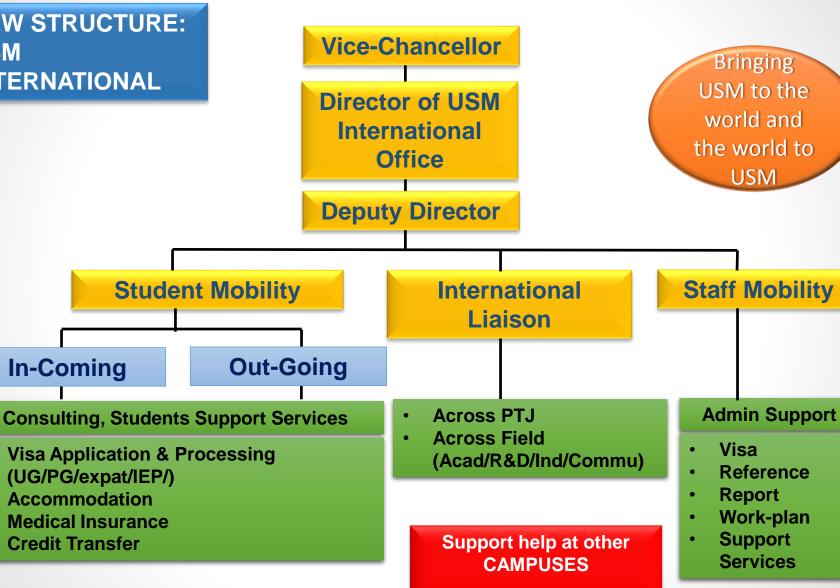
In-Coming

(UG/PG/expat/IEP/)

Medical Insurance

Accommodation

Credit Transfer







New initiatives

- Towards the end of 2016, government has allowed UG tuition fees for Medicine, Dental and Pharmacy to be charged at full cost to Foreign students.
- Hence allowing for the first time foreign students to be enrolled in these courses.
- All foreign students enrolled (not more than 5%) for UG and no limit for PG
- All new intake will be charged in USD
- We are not raising the fees we are just converting to USD. All charges (accomodation etc) will be in USD. This way we are not affected by the exchange rate.

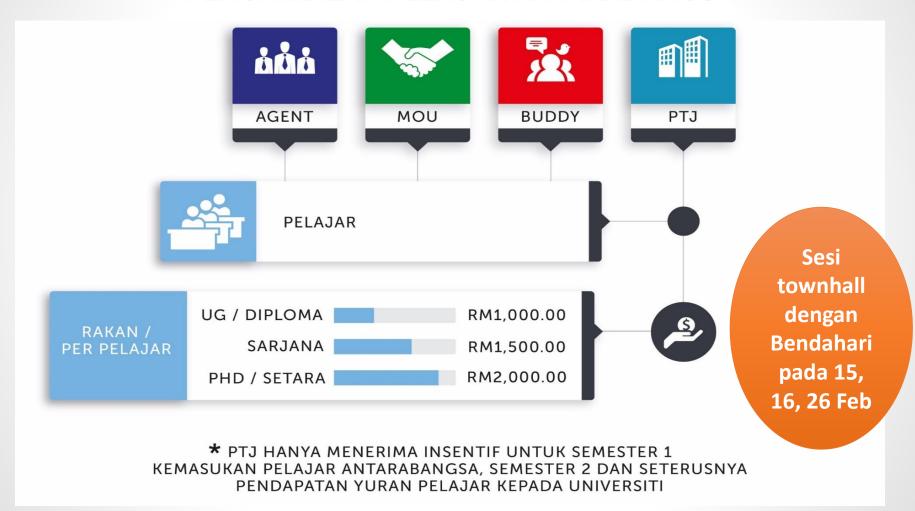
Marketing for foreign students

- What is obvious is not to have a marketing and promotion arm in the university.
- EVERYONE in the university has to do the marketing and promotion because only the PTJ knows best about what to promote and where to find the market.
- We are creating new initiatives to get foreign students to USM
 - Buddy system (students/staff find the potential candidates)
 - MOU/MOA
 - Agents
 - PTJ itself finding the students
- The university will therefore INCENTIVISE the PTJs to find and register the foreign students.





MODEL PROMOSI DAN INSENTIF PENGAMBILAN PELAJAR ANTARABANGSA





MANUAL PERNIAGAAN UNIVERSITI

Menggariskan asas panduan penjanaan pendapatan PTJ dan universiti melalui instrumen strategik perniagaan universiti Optimization-Saving-Income (OSI)

Tahniah pada Bendahari dan Pusat Pembangunan Perniagaan







Perutusan Tahunan 2017 Universiti Naib Canselor Malaysia

Happiness Index

Kami Memimpin | We Lead www.usmamy





Happiness index

- The asset of any organization is its people.
- We spend a large number of hours per day thinking about work or doing work. But its also possible to spend quantity without quality output.
- We need to be outcome-based driven by both KPI and KIP (tangibles and intangibles)
- To strive for outcome-based, we need INTRINSIC MOTIVATION within the organization.
- We must develop passion in people.
- The need to move USM to grow, evolve and embrace change must be felt by everyone.
- Only then can USMers feel a sense of belonging to the university, passion for the university and be inspired by what it plans to do.

Happiness index

Before we deep dive into the USM's Happiness Index, ask ourselves are Malaysians in general happy people?







WHERE IS MALAYSIA NOW?

Aim: One of the top 20 nations in the world (TN50)



|--|--|

		<u> </u>	
No	Economic	Creativity and Innovation	Happiness
	(The Global Competitivene	2016)	(World Happiness Report 2016)
	Index 2016-2017		
1	Switzerla		Denmark
2	Singar	SYUKUR	Switzerland
3	US	SIONON	Iceland
4	Nethe		Norway
5	Germ	SELALU	Finland
6	Swede		Canada
7	United Kingde		Netherlands
8	Japan		New Zealand
9	Hong Kong SAR	Netherlands	Australia
10	Finland	Germany	Sweden
Malaysia	25	35	47 (29%)

Happiness index: Singapore 22; Thailand 33; Indonesia 79 Out of 157

Happiness index for students

Good learning experience

To get a job or be a job creator

Students come to USM not just to have a degree but to have a future

Student Enrolment (2016)

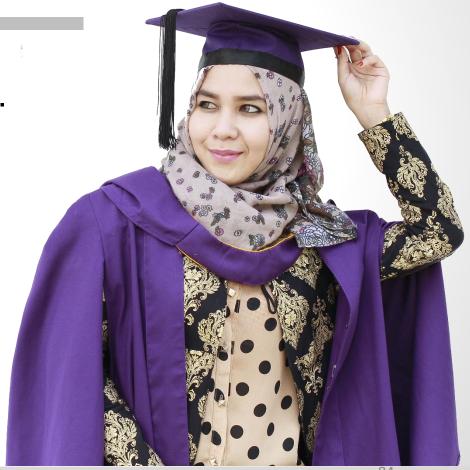






What can students expect from USM?

- 35% of jobs today will no longer exist 20 years from now.
- USM degree must offer valueadd and be relevant
- The degree should teach the students to be able to ADAPT in the future.
- The adaptability can be nurtured with experiential learning



4th Industrial Revolution





Convergence of technology, internet of things, big data, robotics and automation Interface between man and machines

Entrepreneurial Culture





A balanced job creator with values

H.E.B.A.T

students

Malaysia Education BLUEPRINT – Shift 1

Sustainability-led university (APEX Agenda)

Rukun Nilai (Values)

Wisdom | Truth | QALBU | Humanity | Beauty











	2014/2015 Students	2015/2016 Students		
Band 6	0 🗸	9		
Band 5	555 🎺	1,316		
Band 4	5,295	11,128		
Band 3	20,088	27,748		
Total	25,938	: 40,201 :		

2u2i

2 years University 2 years Industry

- UMK: Entrepreneurship
- UPM: Plantation
- UiTM: Communication
- UMT: Accountancy (Industrial Collaboration)

USM will move towards flexible education

MUET

STUDENTENTREPRENEURS



INDUSTRY EXPOSURE





- Siswa Tani
- Pribumi Investment Camp
- Entrepreneur Incubation

iCGPA

Integrated Cumulative Grade Point Average

- Entrepreneurship
- Management Skills
- Communication Skills



*Compelency Scale











The "Oscars of Higher Education" 2016

- Dr. Muhamad Saiful Bahri Yusoff from School of Medical Sciences, USM made Malaysia proud by winning the Reimagine Education Award 2016 – Teaching Delivery Category
- An annual global recognition to educational innovators organized by QS World University Rankings and Wharton School-SEI Centre University of Pennsylvania.
- Attracted 807 submissions from 56 countries,
 527 entries were accepted and 140 shortlisted.
- International panel of judges comprise of 40 experts (i.e., Google, Microsoft, IBM, Coursera, Harvard Innovation Lab, etc).
- Three main evaluation criteria: innovation, impact, depth or scalability.
- The first Asian to win this Award for this category.





http://www.reimagine-education.com

89







Reimagine Education Award 2016 – Teaching Delivery



TEACHING DELIVERY

The **first Asian** to win this Award for this category



Congratulations



Re-Imagining Education for the Twenty-First Century in USM



- We don't own any buildings
- We don't own any dorms
- We don't own any labs
- We have classes round the world
- The lecturers can be anywhere
- Small classroom to five personal attention
- Low tuition fees
- Students are global

7 cities

during four years of intensive study.

San Francisco
Berlin
Buenos Aires
Seoul
Bangalore
Istanbul
London





The APEX agenda: Meaning through purpose

Learn **Un-Learn** Re-Learn Co- Learn **Co-Create**

Aligning with APEX agenda



- To create a USM global player with emphasis on values
- Why not all of USM students own a passport
- They will use this passport to observe and experience a week in the life of the marginalised population and deliver solutions to real-life problems

Sometimes in life we do good things not because it is a must but because it is the right thing to do

Happiness index for staff





Talent in USM



3,608

Main Campus



841

Engineering Campus



578

Advanced
Medical and
Dental Institute

TOTAL 10,075 1,976

Health Campus



3,072

HUSM



As of 24/1/2017

Statistics According to Service Groups





Perutusan Tahunan Naib Canselor 2017

1,948 academic vs 8,127 non academic Ratio 1:4.2





Total population

Health campus=5048

Bigger than campus

Penang!!



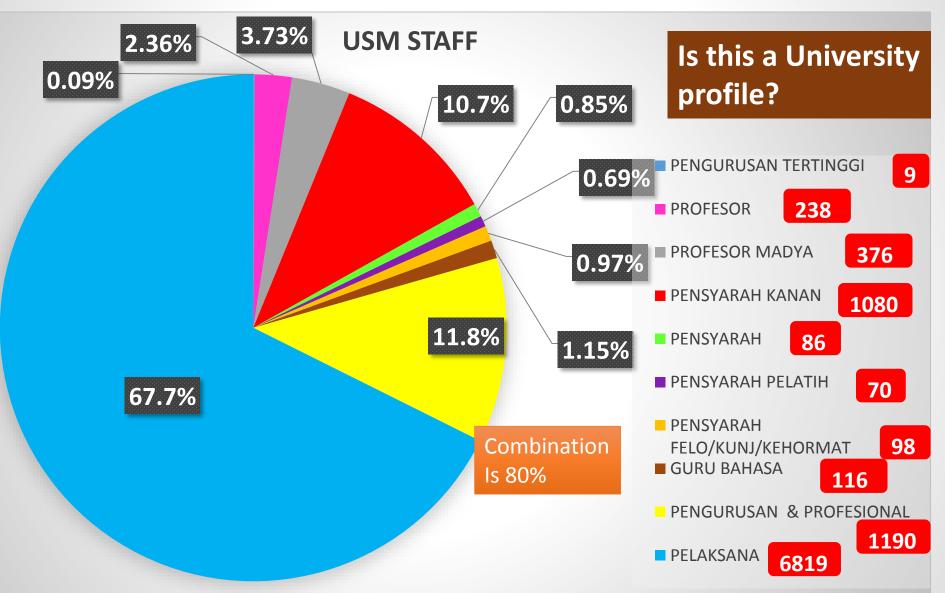
GROUP/ CAMPUS	MAIN CAMPUS	ENGINEERING CAMPUS	HEALTH CAMPUS	MSUH	IPPT
TOP MANAGEMENT	9	0	0	0	0
ACADEMIC STAFF	1,010	249	591	0	91
LANGUAGE TEACHERS	86	14	16	0	0
MANAGEMENT & PROFESSIONAL STAFF	513	81	203	325	68
SUPPORT STAFF	1,990	497	1,166	2,747	419
TOTAL	3,608	841	1,976	3072	578

Composition of USM STAFF





Perutusan Tahunan Naib Canselor 2017



PENAMATAN PERKHIDMATAN



SOARING UPWARDS

Perutusan Tahunan Naib Canselor 2017

3.5% attrition rate in 2016

2016

2017

1. Bersara Wajib

176

12 /171

2. Bersara Pilihan

88

21

3. Bersara Kesihatan

1

0

4. Kematian

10

0

5. Letak Jawatan

61 (0.6%)

4

6. Khidmat Ditamatkan

19 (0.18%)

0

7. Pelepasan Jawatan

0

0

Mirror mirror on the wall

- Expected ratio is 1 academic to 2 non-academic
 - UM without hospital staff 1:1.8
 - USM without hospital staff is 1:2.3
- Mirror mirror on the wall: USM is FAT.
- In fact WE are OBESE. How obese are we compared to other universities in the world? This phenomenon is not strange. UK universities (71%) also show the same phenomenon with a national average support staff of 53%. London School of Business (85%)(Times Higher Education)

So HOW to reduce weight?

- Following the government ruling, we need to exercise the exit policy
- HR has investigated the PTJs that are with surplus and will undergo re-positioning and re-tooling of existing staff
- We will undergo trade-off of posts to attain a better career development of the staff
- To all heads of PTJs. We beg your indulgence. Until things improve, we will not be replacing those that has left the university. However we will consider replacements for posts that will contribute to the advancement of our RU status.





Tahunan Naib Canselor 2017

Happiness index



- The motto "Saya sayang USM" showed positive vibes but
 - "Adakah USM sayang saya?" needs to be addressed.
- Its unrealistic that a big organisation like USM can satisfy everyone but at least lets open the channels of communication.
- This is especially so regarding promotion exercises. We will townhall on this
 aspect because while many understand the criteria for promotion many more
 still do not understand and assumes that the goal post is changing.
- The university needs to work harder on this aspect and we will improve based on your feedback
- What we want is a 2 way communication so that we do not create gaps and misunderstandings







We need to do Townhall, we need to send infographics, we need to do face to face ...







"Saya sayang USM, USM sayang saya"

 Walapun selalu ditanya apa USM boleh buat untuk kita, perlu juga kita bertanya apa yang kita boleh buat untuk USM.

 Kita perlu ada harapan bersama (mutual expectations) bagi inputs and outcomes.

 Konsep ini akan menjadi tunjang pada slogan 'Saya sayang USM, USM sayang saya"
 INTRINSIC

Inside-out

Saya

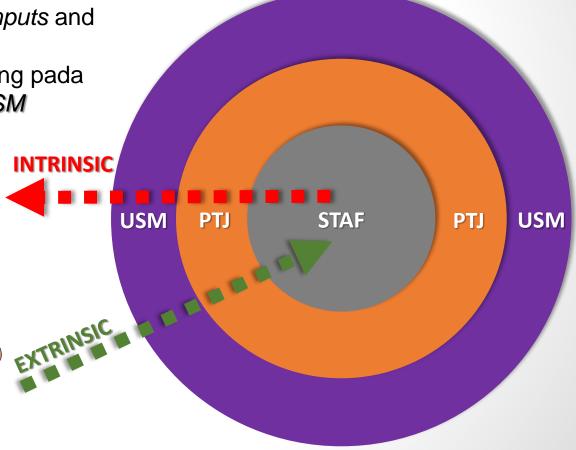
Outside - in

USM

Saya

USM

MUTUAL Expectations for inputs and outcomes





"USM sayang saya"

- Siapa kata USM tak sayang dengan kakitangannya.
- Walaupun kita menghadapi
 peruntukan yang telah dipotong tetapi
 setakat ini tidak ada lagi kakitangan
 yang tidak dibayar gaji dan bonus.
 Dengan itu #syukur selalu.
- Universiti ada banyak cara untuk memberi ganjaran pada kakitangannya.
- Ganjaran ini akan memainkan peranan meningkatkan Motivasi dalaman (intrinsic motivation) warga bekerja USM

ANTARA GANJARAN DARIPADA UNIVERSITI.....

- Gaji dan bonus (lebih RM 500 juta setahun tidak termasuk HUSM)
- Bayaran Bantuan Khas Kewangan (RM 500 seorang)
- Peluang kemajuan kerjaya (akademik 121; pentadbiran 711)
- Pembangunan potensi diri melalui peluang latihan melalui CDAE, PTI, PTJ – (94.5% capai mata minimum CPD)
- Kemudahan rawatan staf (RM 2.6 juta)
- Flexible Scheme For Retired Scholars (FSRS)
- e-Birthday Card (kepada semua staf tetap dan kontrak)
- Majlis Penghargaan dan Pengiktirafan Universiti (1951 penerima)
- Job Rotation pentadbiran (559)
- Staf Pelaksana dinaikkan ke kumpulan Pengurusan dan Profesional (56)
- Staf kontrak diserap ke jawatan tetap (68)
- · Kemudahan fizikal dan sokongan



FLEXIBLE SCHEME FOR RETIRED SCHOLARS (FSRS)

(4 tracks ++)

We need to retain the seniors to provide mentorship and be the role models to inspire the young The wealth of the university lies in its wisdom. To stop brain drain FSRS was developed



Pensyarah Kehormat

(tanpa bayaran)

FLEXIBLE SCHEME FOR RETIRED SCHOLARS (FSRS)

PRINSIP

- Profesor dan Staf Akademik yang kompeten dan telah bersara
- Lantikan selama satu (1) tahun
- Pilihan TREK
- Gaji FSRS dibayar secara pukal

HONORARIUM

JAWATAN	Honorarium SEBULAN
PROFESOR A	RM 12,000
PROFESOR B	RM 10,000
PROFESOR C	RM 8,000
PROFESOR MADYA/SETARAF	RM 6,000

- Dilantik sebagai pensyarah dan dibenarkan gelaran Professor
- Tandatangan "agreement"

TREK LALUAN FSRS

Bridge to USM

- Trek Pengajaran
- Trek Pengajaran (USAINS)*
- Trek Penyelidikan
- Trek Kepimpinan Institusi
- Trek Amalan Profesional
- Trek Amalan Profesional (USAINS)*
- Trek Amalan Profesional (CLINICIAN)*
- * Trek baru yang dicadangkan oleh USM

KELEBIHAN FSRS USM

- Mengekalkan Profesor/staf akademik dalam ekosistem bakat USM
- Menawarkan pelbagai laluan(trek) 4 trek++ berbanding 4 trek dalam BLUE PRINT

WE will also have the 4 track for promotion as stated in the blueprint



Rewarded for loyalty to USM

General worker who kept campus clean among 283 award recipients



Sanjungan Budi award recipient Ahmad (left) and Jasamu Dikenang award recipient Abd Wahab showing the certificates and watches they received.

KEEPING the Universiti Sains Malaysia (USM) campus in Penang clean has been a passion of Abd Wahab Aziz, 60, for four decades.

It was a bittersweet moment when the general worker finally retired on Sept 29.
"I was completely in sync with all my former colleagues.

"Working at the campus was such a great experience for me. I always found something to do as I never like to laze around," he said during an awards and recognition ceremony at USM," Duran Transport

at USM's Dewan Tuanku Syed Putra recently.
Abd Wahab was one of 160 recipients of
the Jasamu Dikenang for their excellent
service to the university.

At the ceremony, USM broadcasting producer Ahmad Zulman Mohd Zain, 52, was spotted wearing Police Volunteer Corps

ttire.
"Oh, I'm not a police officer, It's just that

you are supposed to wear your uniform every Wednesday," Ahmad said.

His love for the university started when he was a student there.

He obtained both his bachelor's and master's degrees from USM and now, he is pursuing his PhD on a part-time basis there.

"I will be here at USM until I retire at 60. I love it here."

Ahmad was among 123 staff members who received the Sanjungan Budi award for serving the university for 25 years.

USM vice-chancellor Prof Datuk Dr Asma Ismail commended all the 283 recipients for their loyalty to the university.

"I encourage everyone here to share and pass on their knowledge.

"In teaching others, we teach ourselves. A candle loses nothing by lighting another candle," she said in her opening speech.



Majlis Penghargaan dan Pengiktirafan Universiti (1951 penerima)

APA PULA HARAPAN USM PADA KAKITANGANNYA?

USM Headline KPIs 2016





Perutusan Tahunan Naib Canselor 2017

Headline KPIs	Description	Target Achievement		
ricaulille KF15	Description	raiget	Acilievei	ileilt
Headline KPI 1	Percentage graduates with employed status as of convocation	83%	74.3%	
Headline KPI 2a	(i) Number of international students enrolled	4,659	1,945	
Headline KPI 2b	(ii) Number of international postgraduate students enrolled	4,211	1,750	
Headline KPI 3a	(i) Total number of publications per lecturer in indexed journals	2	1.45	
Headline KPI 3b	(ii) Total number of citations per lecturer	39	92.5	
Headline KPI 4	Self-generated income as % of total operating expenditure	25%	28.7%	
Headline KPI 5a	(i) Student attrition rate - UG	5%	3.71%	
	(ii) Student attrition rate - Masters	18%	12%	
	(iii) Student attrition rate - PhD	18%	20.7%	
Headline KPI 5b	(i) Intake Graduate on-time rate (iGoT) - UG	89%	86.5	
	(ii) Intake Graduate on-time rate (iGoT) - Masters	52%	52.4%	
	(iii) Intake Graduate on-time rate (iGoT) - PhD	48%	37.4%	
Headline KPI 6	Percentage of student enrolment in TVET programmes	-	NA	
Headline KPI 7a	(i) Number of placements within QS Top 50 global ranking by subjects	2	1	
Headline KPI 7b	(ii) Number of placements within QS Top 200 global ranking by subjects	16	19	

(8/14)

(3/14)

Kami Memimpin | We Lead

Overall:

(3/14)





Perutusan Tahunan 2017 Universit Naib Canselor 2018 Malaysia

This is a journey ...not a destination We don't grow when things are easy, we grow when we fix challenges

Sama-sama kita bangunkan Universiti...gaya USM

Mentransformasi Pendidikan Tinggi untuk Kelestarian hari esok Transforming Higher Education for a sustainable tomorrow

Terima kasih Thank you vc@usm.my

Kami Memimpin | We Lead WWW.USM. my