

AMANAT 2017

MENTERI PENDIDIKAN TINGGI

Redesigning Higher Education

MEREKA BENTUK PENDIDIKAN TINGGI



الحمد لله

ALHAMDULILLAH



DATUK DR MARY YAP



TAN SRI DR NOORUL AINUR



**DATIN PADUKA IR DR SITI
HAMSIAH**



DATO' AMIR MOHD NOOR



TERIMA KASIH &

SELAMAT TAHUN BARU









“To provide the **best higher
education system** in the
world”

2016

Recognition



Top 1% in the World World University Rankings





















UNIVERSITY	2015	2016
 UNIVERSITY OF MALAYA	146	 133
 UNIVERSITI PUTRA MALAYSIA	331	 61 270
 UNIVERSITI TEKNOLOGI MALAYSIA	303	 15 288
 UNIVERSITI KEBANGSAAN MALAYSIA <i>The National University of Malaysia</i>	312	 10 302

Top 50 Under 50







UNIVERSITY	RANK
 UNIVERSITI PUTRA MALAYSIA	17
 UNIVERSITI TEKNOLOGI MALAYSIA	25
 UNIVERSITI KEBANGSAAN MALAYSIA <i>National University of Malaysia</i>	26
 UNIVERSITI SAINS MALAYSIA	33

QS WORLD UNIVERSITY RANKINGS 2016/2017

Asian University Rankings

UNIVERSITY	2015	2016
 UNIVERSITI MALAYA	29	 27
 UNIVERSITI PUTRA MALAYSIA	66	 49
 UNIVERSITI SAINS MALAYSIA	49	 51
 UNIVERSITI KEBANGSAAN MALAYSIA <i>National University of Malaysia</i>	56	 55
 UNIVERSITI TEKNOLOGI MALAYSIA	61	 63
 UNIVERSITI TEKNOLOGI PETRONAS	151	 127
 UNIVERSITI UTARA MALAYSIA	191	 137
 INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA	151	 151
 TAYLOR'S UNIVERSITY <i>Work • Inspire • Succeed</i>	201	 179
 UNIVERSITI TEKNOLOGI MARA	201	 181

By Subject Rankings

SUBJECT	2015	2016
 DEVELOPMENT STUDIES	32	 30
 ENGINEERING (ELECTRICAL & ELECTRONIC)	51-100	 37
 ENGINEERING (CHEMICAL)	51-100	 46

Top 100

 UNIVERSITY OF MALAYA	Architecture / Built Environment Computer Science & Information Systems Education Engineering - Chemical Engineering - Mechanical, Aeronautical & Manufacturing English Language & Literature Linguistics
 UNIVERSITI SAINS MALAYSIA	Architecture / Built Environment Computer Science & Information Systems Development Studies Education Engineering - Electrical & Electronic Engineering - Mechanical, Aeronautical & Manufacturing Environmental Sciences Pharmacy & Pharmacology
 UNIVERSITI KEBANGSAAN MALAYSIA <i>National University of Malaysia</i>	Architecture / Built Environment Education Engineering - Chemical Social Policy & Administration
 UNIVERSITI TEKNOLOGI MALAYSIA	Architecture / Built Environment Engineering - Chemical Engineering - Electrical & Electronic
 UNIVERSITI PUTRA MALAYSIA	Agriculture & Forestry

QS Stars 2016









QS STARS
RATED FOR EXCELLENCE
2016

SUNWAY UNIVERSITY


Four gold stars and one grey star.


Teaching	★	★	★	★	★
Employability	★	★	★	★	★
Facilities	★	★	★	★	★
Inclusiveness	★	★	★	★	★

Asia University Rankings

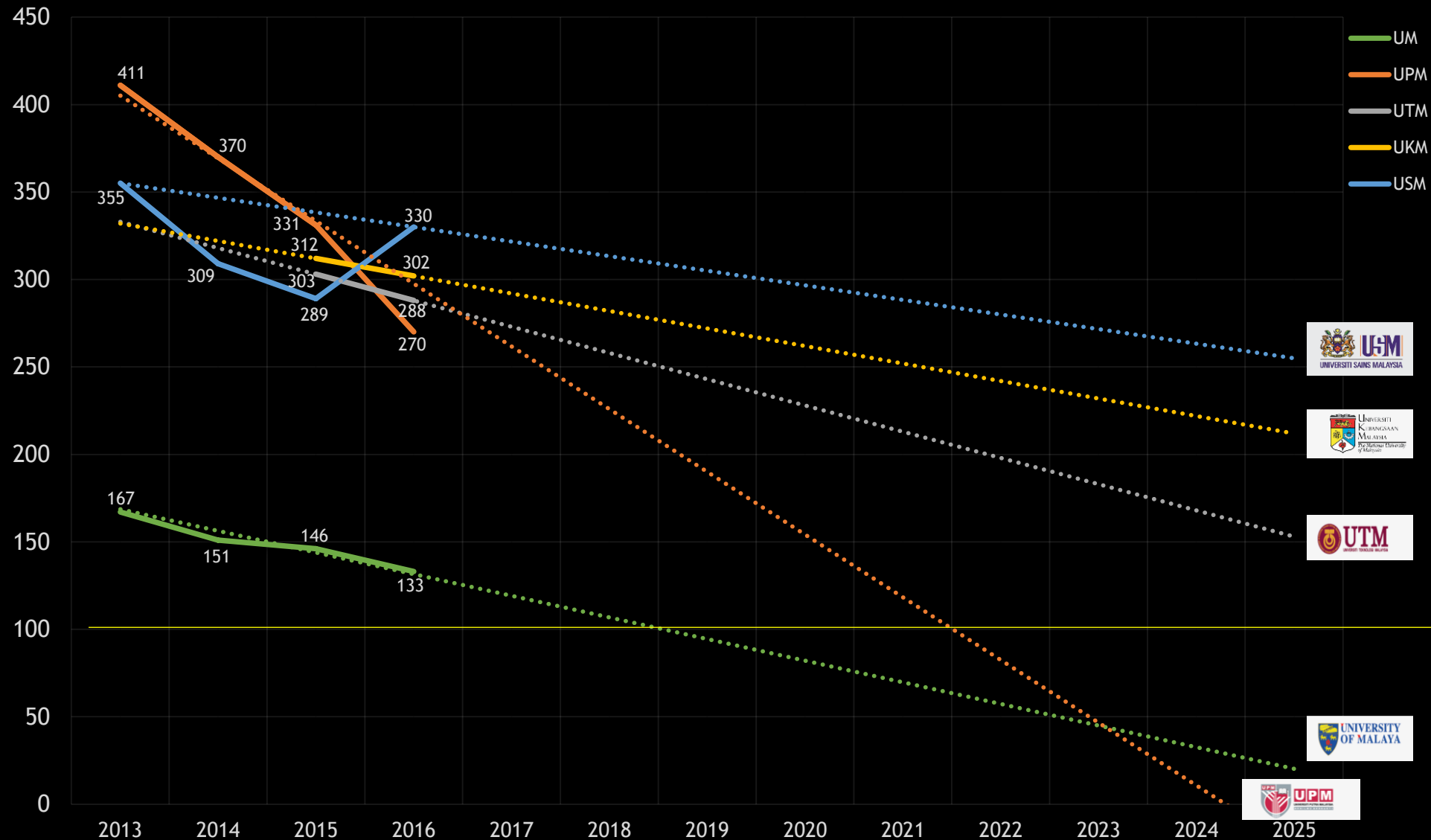
UNIVERSITY	2015	2016
 UNIVERSITI TEKNOLOGI PETRONAS	151	↑ 127
 TAYLOR'S UNIVERSITY Wisdom · Integrity · Excellence	201-250	↑ 179
 MMU MULTIMEDIA UNIVERSITY	201-250	↑ 193
 LIMKOKWING UNIVERSITY OF CREATIVE TECHNOLOGY	251-300	
 UNIVERSITI TENAGA NASIONAL	251-300	
 UTAR UNIVERSITI TUNKU ABDUL RAHMAN	251-300	

By Subject Rankings

 UNIVERSITI TEKNOLOGI PETRONAS	
#101-150	Engineering - Chemical
#151-200	Engineering - Mechanical
#201-250	Engineering - Electrical & Electronic
#301-350	Computer Science & Information Systems

 MMU MULTIMEDIA UNIVERSITY	
#151-200	Engineering - Electrical & Electronic
#301-350	Computer Science & Information Systems

2 universities, top 100, by 2025



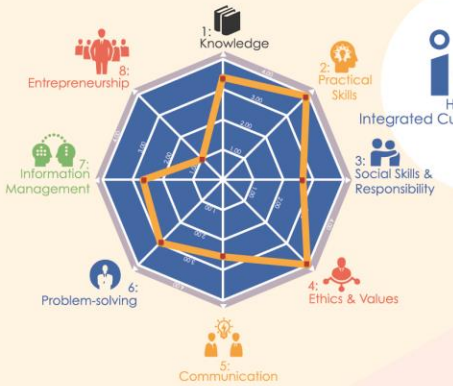
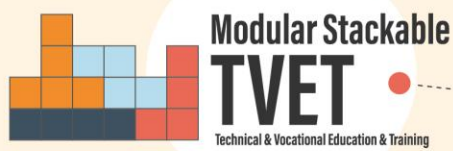
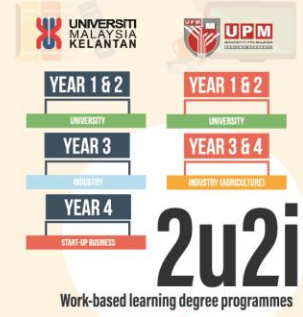
Top
100







@ FACULTY PROGRAMME



ICGPA
Holistic Graduates :
Integrated Cumulative Grade Point Average

REDESIGNING HIGHER EDUCATION

SOARING UPWARDS
MALAYSIAN HIGHER EDUCATION

RECOGNITION

TOP 100 Subjects in the World

SUBJECT	2015	2016
DEVELOPMENT STUDIES	32	30
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TOP 51-100

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UM APEX	Agriculture & Forestry

TOP 1% in the World
Malaysian Research Universities

*There are approximately 30,000 universities worldwide

- MIT Massachusetts Institute of Technology (MIT)
- University of Oxford
- National University of Singapore (NUS)
- The University of Nottingham
- Universiti Malaysia
- Kyushu University
- Cardiff University
- Georgetown University
- Chulalongkorn University
- RMIT University
- Universiti Putra Malaysia
- Queensland University of Technology (QUT)
- University of South Australia
- Universiti Teknologi Malaysia
- University of Ottawa
- University of California, Santa Cruz
- Universiti Kebangsaan Malaysia
- Universitas Indonesia
- Heriot Watt University
- Universiti Sains Malaysia
- George Washington University

11 International University Branches in Malaysia



TOP 50 UNDER 50

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RESEARCH
Growth in Research Output - last 10 years.



THOMSON REUTERS
THE WORLD'S MOST INFLUENTIAL SCIENTIFIC MINDS 2014 - 2016



Cambridge Intersarsity Debate Champion



KUALA LUMPUR
MOST AFFORDABLE CITY
IN THE WORLD FOR STUDENTS

QS BEST STUDENT CITIES SURVEY 2013/14 & 2014/16



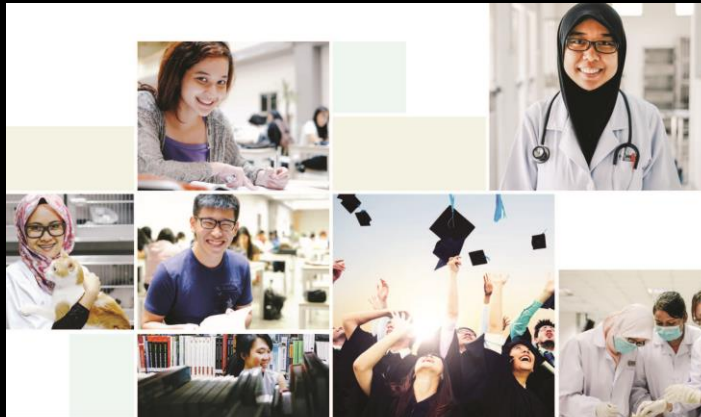
MINISTRY OF HIGHER EDUCATION

**SOARING
UPWARDS**
MALAYSIAN HIGHER EDUCATION



The background is a dark, semi-transparent overlay on a photograph of hands working on architectural drawings. One hand holds a blue pencil, another a yellow pencil, and a third a green pencil. A ruler is visible in the lower right corner. The text 'Redesigning Higher Education' is overlaid in white, bold, sans-serif font on the left side of the image.

Redesigning Higher Education



MINISTRY OF
EDUCATION
MALAYSIA

Malaysia Education Blueprint 2015-2025 (Higher Education)



1-7

SYSTEM ASPIRATIONS

The MEB (HE) will therefore build on the five aspirations set out in the MEB of access, quality, equity, unity, and efficiency.

HIGHER
EDUCATION

PRESCHOOL
TO POST-
SECONDARY
EDUCATION

ACCESS

By 2025, the Ministry aspires to increase access to and enrolment in higher education. If Malaysia were to successfully improve tertiary enrolment rates from 36% currently to 53% (and higher education enrolment from 48% to 70%), this will bring Malaysia on par with the highest enrolment levels in ASEAN today. This growth scenario will require an additional 1.1 million places by 2025, mainly through growth in technical and vocational education and training (TVET), private HLIs and online learning. The exact pace and nature of the expansion plan will be determined in close collaboration with industry to ensure supply matches demand.

100%
ENROLMENT

Across all levels from preschool to upper secondary by 2020

QUALITY

The Ministry's aspiration covers three aspects: quality of graduates, quality of institutions, and quality of the overall system. On quality of graduates, the Ministry aspires to increase the current 75% graduate employability rate to more than 80% in 2025. On quality of institutions, only one of Malaysia's universities is currently in the Top 200 QS global rankings. By 2025, the Ministry aims to place one university in Asia's Top 25, two in the Global Top 100, and four in the Global Top 200. Finally, on quality of the overall system, the Ministry aspires to raise its U21 ranking for research output from 36th out of 50 countries to the top 25, and to increase the number of international students in HLIs from 108,000 today to 250,000 students in HLIs and schools by 2025.

TOP 3rd
OF COUNTRIES

In international assessments such as PISA and TIMSS in 15 years

EQUITY

Although there is currently a lack of comprehensive data to effectively assess equity in the system, the Ministry aims to ensure that all Malaysians have the opportunity to fulfil their potential regardless of background. For example, the Ministry is committed to improving the enrolment rate and completion rate of students from socio-economically disadvantaged backgrounds and communities.

50%
REDUCTION

In achievement gaps (urban-rural, socio-economic, and gender) by 2020

UNITY

Similarly, while there is no widely accepted method yet to measure unity, the Ministry is committed to ensuring that enrolment in HLIs reflects the mix of Malaysia's ethnicities. The aim is to create an education system that provides students with shared values, shared experiences, and common aspirations by embracing diversity.

SHARED
VALUES AND
EXPERIENCES

An education system that gives children shared values and experiences by embracing diversity

EFFICIENCY

In terms of efficiency, the Ministry aims to maximise the return on investment in higher education and to maintain the current levels of Government expenditure per student across public institutions. Malaysia also aspires to rise from 44th out of the 50 countries in the U21 output ranking that covers research, enrolment, and employability to be in the top 25 by 2025.

MAXIMISES
STUDENT
OUTCOMES

A system which maximises student outcomes within current budget

STUDENT ASPIRATIONS



MINISTRY OF
EDUCATION
MALAYSIA

Malaysia Education Blueprint 2015-2025 (Higher Education)



Ethics & Spirituality

Ethically and morally upright, spiritually grounded, compassionate and caring; appreciates sustainable development and a healthy lifestyle.



Leadership Skills

Is an effective communicator, emotionally intelligent and able to work across cultures; is socially responsible, competitive, resilient, and confident.



National Identity

Has pride in Malaysia and an understanding of Malaysia in relation to the world.



Language Proficiency

Proficient in *Bahasa Melayu* and English, and encouraged to learn one additional global language.



Thinking Skills

Appreciates diverse views, is able to think critically and be innovative, has problem-solving initiative, and an entrepreneurial mindset.



Knowledge

Has mastery of own disciplines, is able to harness, connect and apply knowledge learnt, and has an appreciation of culture, arts, and Science, Technology, Engineering and Mathematics (STEM).

HIGHER
EDUCATION

PRE-SCHOOL
TO POST-
SECONDARY
EDUCATION

Possesses solid moral foundation and courage to make right decisions.

Has strong communication skills, is entrepreneurial, resilient, can lead and work in teams.

Proudly identifies as Malaysian and embraces diversity.

Operationally proficient in at least *Bahasa Melayu* and English.

Is inquisitive and innovative, can apply, create, and connect knowledge to provide solutions.

Has mastery of core subjects and general knowledge about the world.

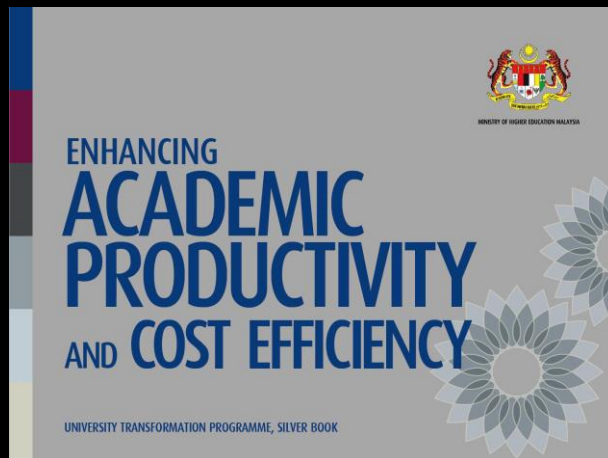
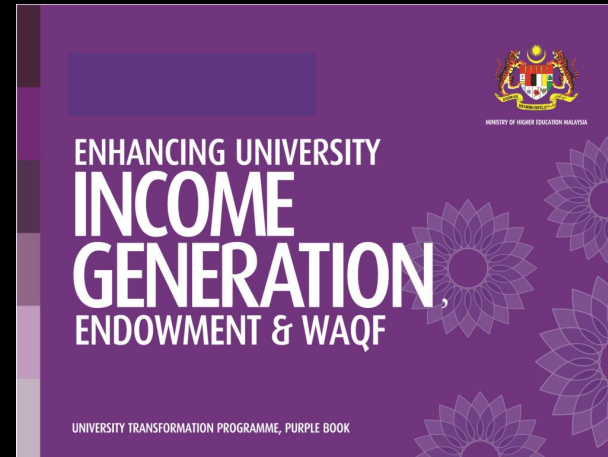
AKHLAK
(Ethics and Morality)

BALANCE

ILMU
(Knowledge and Skills)

UniTP Playbooks

2017





MINISTRY OF
EDUCATION
MALAYSIA

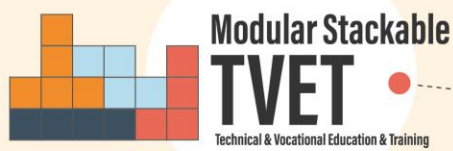
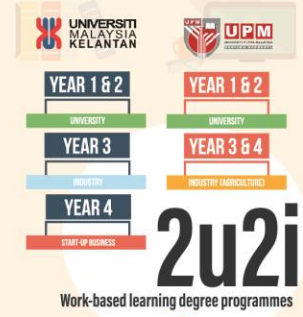
Malaysia Education Blueprint 2015-2025 (Higher Education)



We have our aspirations,
We have a vision,
We have a plan.



@ FACULTY PROGRAMME



ICGPA
Holistic Graduates :
Integrated Cumulative Grade Point Average

REDESIGNING HIGHER EDUCATION

SOARING UPWARDS MALAYSIAN HIGHER EDUCATION

RECOGNITION

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- 1 MIT Massachusetts Institute of Technology (MIT)
- 6 University of Oxford
- 12 National University of Singapore (NUS)
- 75 The University of Nottingham
- 133 Universiti Malaya
- 135 Kyushu University
- 140 Cardiff University
- 214 Georgetown University
- 252 Chulalongkorn University
- 252 RMIT University
- 270 Universiti Putra Malaysia
- 276 Queensland University of Technology (QUT)
- 288 University of South Australia
- 288 Universiti Teknologi Malaysia
- 291 University of Ottawa
- 296 University of California, Santa Cruz
- 302 Universiti Kebangsaan Malaysia
- 325 Universitas Indonesia
- 327 Heriot Watt University
- 330 Universiti Sains Malaysia
- 363 George Washington University

KUALA LUMPUR MOST AFFORDABLE CITY IN THE WORLD FOR STUDENTS
QS BEST STUDENT CITIES SURVEY 2013/14 & 2014/16



THOMSON REUTERS THE WORLD'S MOST INFLUENTIAL SCIENTIFIC MINDS 2014 - 2016



- 11 International University Branches in Malaysia**
- Heriot Watt University
 - Hatfield University
 - Newcastle University
 - Scotsman University
 - Curtin University
 - The University of Nottingham
 - University of Reading
 - Monash University
 - Swinburne University
 - MIT Sloan Management

TOP 50 UNDER 50

UNIVERSITY	RANK
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Holistic Graduates :

iCGPA
Integrated Cumulative
Grade Point Average

CEO
@ FACULTY
PROGRAMME

2u2i
Work-based learning degree programmes

MALAYSIA
MOOC
MASSIVE OPEN ONLINE LEARNING

LEARNING NEVER STOPS
APEL

TVET:
Modular & Stackable

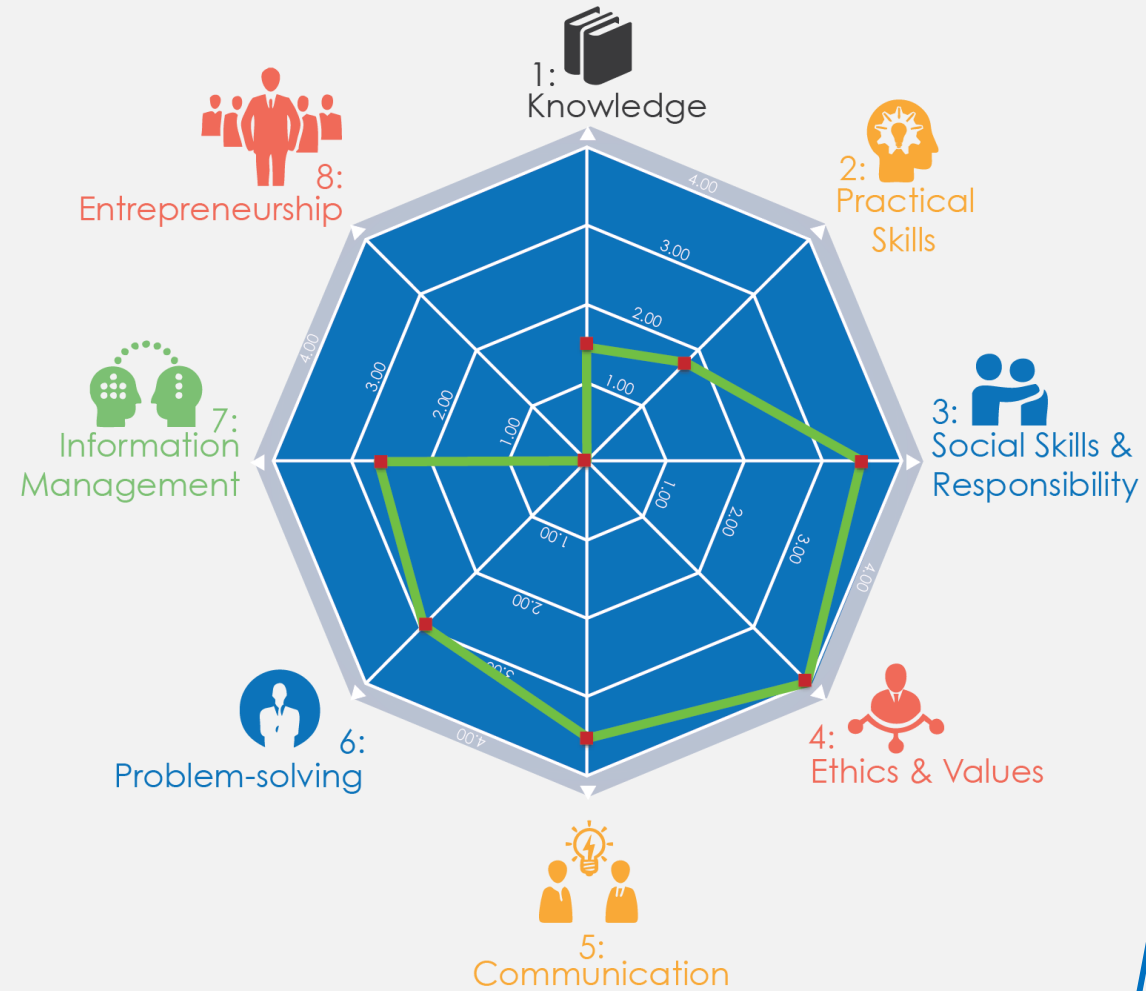
Holistic Graduates :

ICGPA

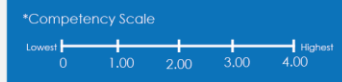
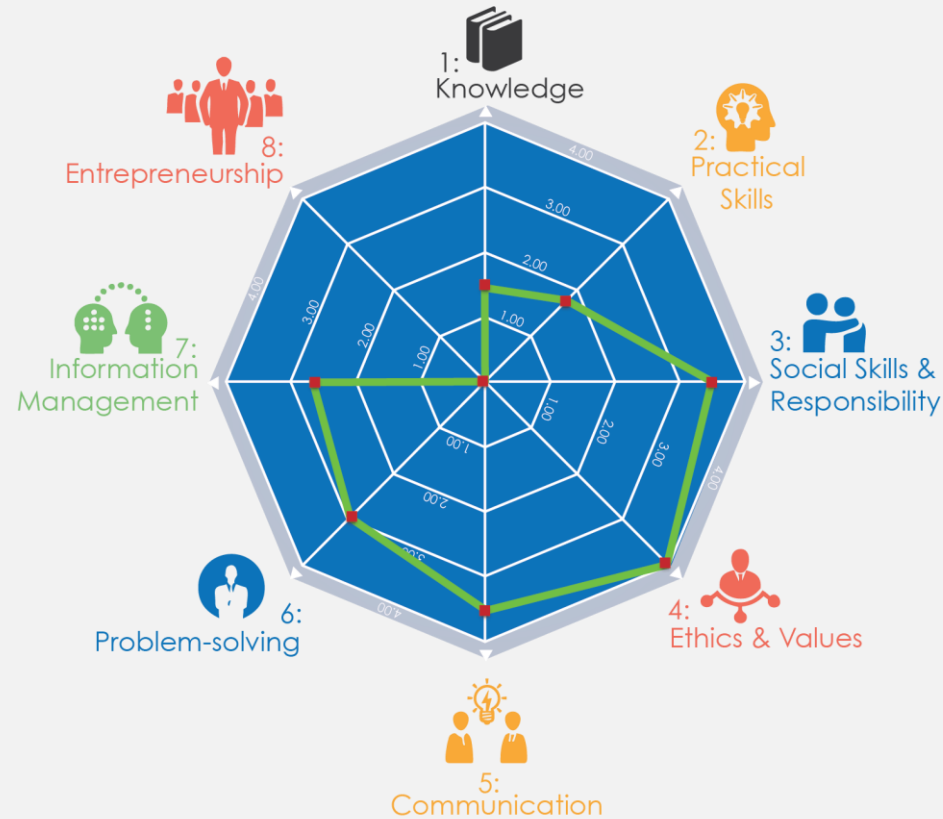
Integrated Cumulative
Grade Point Average



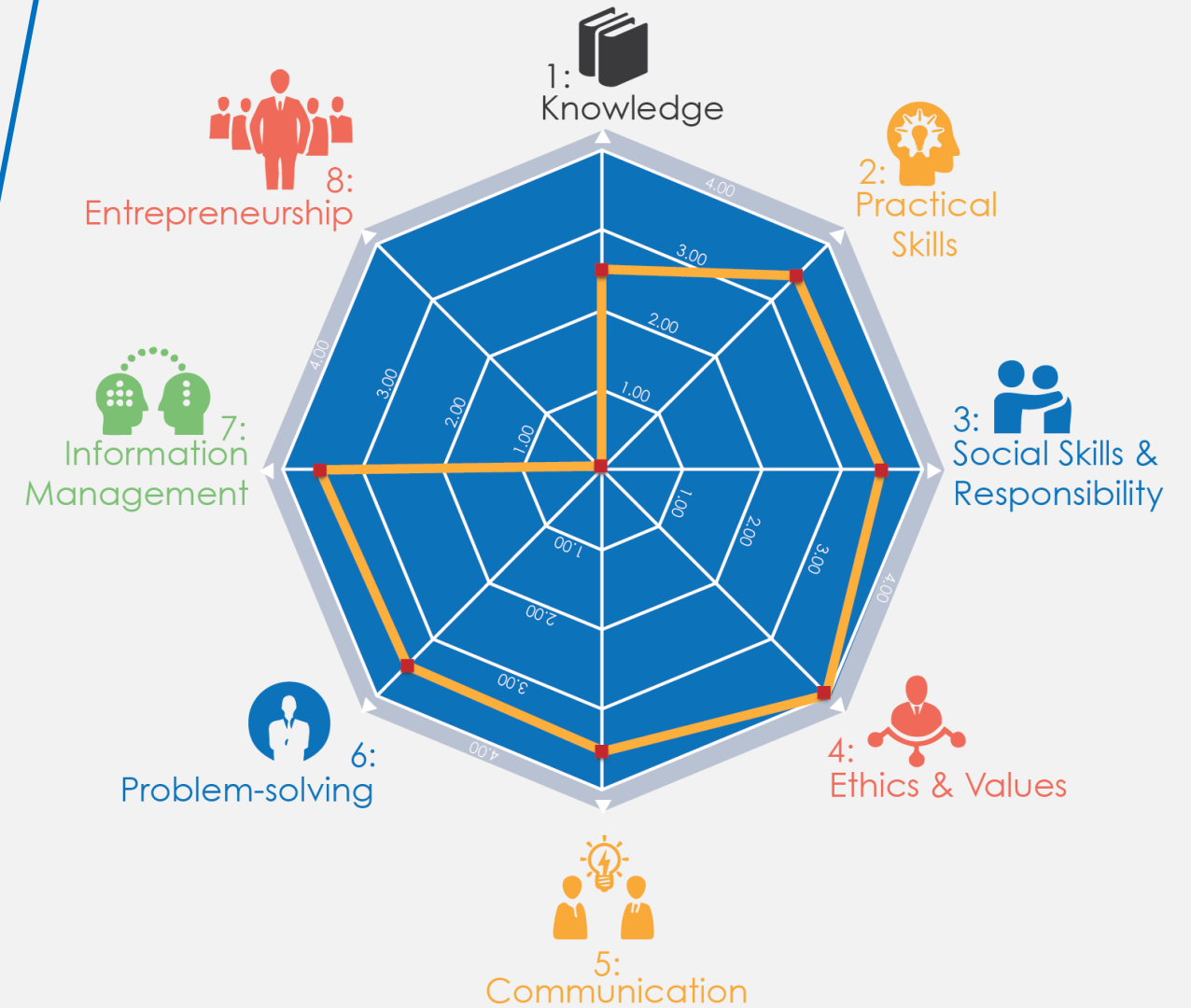
Semester 1



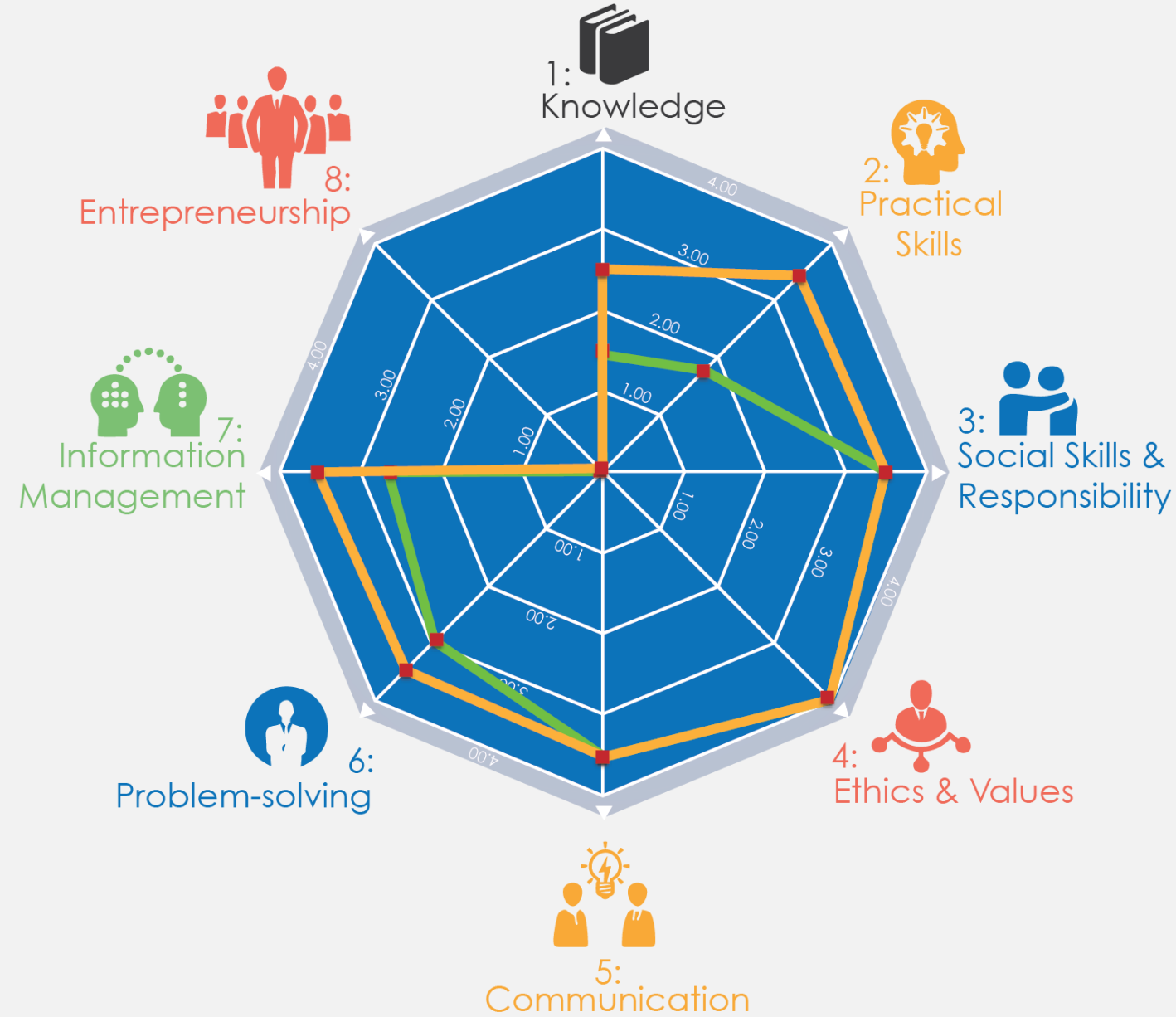
Semester 1



Semester 2



Semester 1 & Semester 2



*Competency Scale

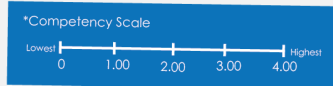


2015

5

Universities

iCGPA
Holistic Graduates :
Integrated Cumulative Grade Point Average



2016

20

Universities

5

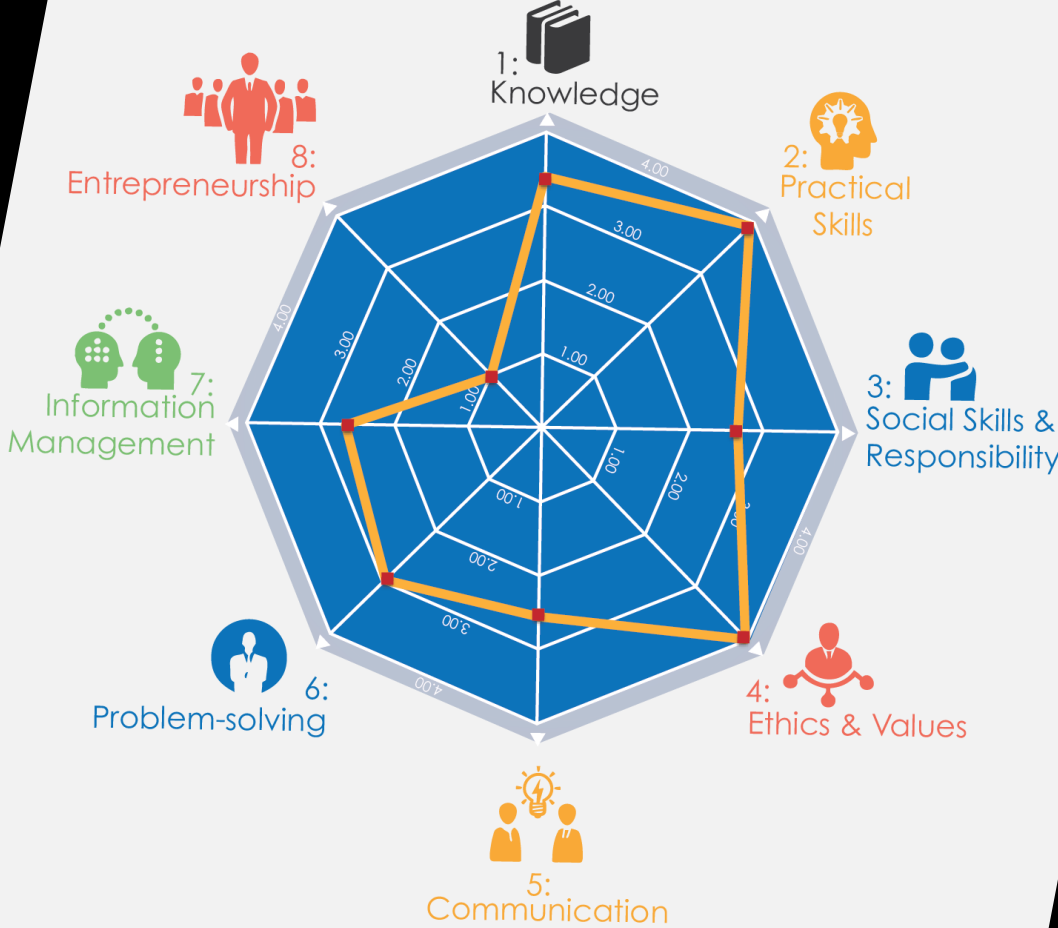
Polytechnics

9

Community Colleges

2017

Continued growth
+
Private HEIs welcome to join.



Data Engineering



UTM
UNIVERSITI TEKNOLOGI MALAYSIA





2u2i
*Work-based learning
degree programmes*



Data Engineering Program



+



ORACLE



HILTI



2u2i
Work-based learning degree programmes



Dato' Yasmin Mahmood
Chief Executive Officer
Malaysia Digital Ekonomi Corporation (MDEC)

*A **dynamic & flexible**
higher education
ecosystem*

2u2i
Work-based learning degree programmes





2u2i
Work-based learning degree programmes



2016/
2017

5

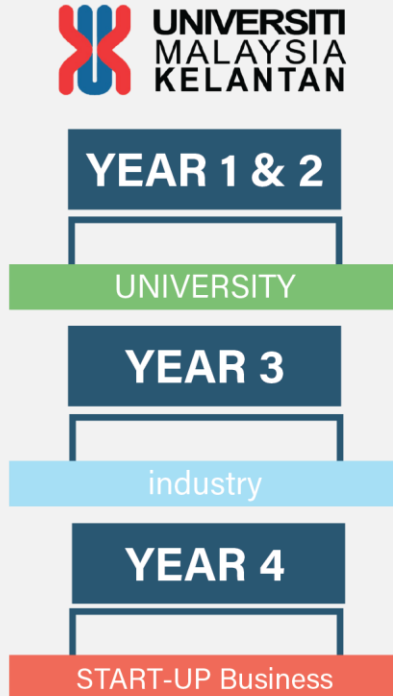
Universities

8

Programmes



2U2i



2017/
2018

7

Universities

16

Programmes

2u2i

Work-based learning degree programmes





@ FACULTY
PROGRAMME

*“In business, the **most important thing** for an entrepreneur is to have an **idea**. My idea was if I could fly people to Penang for 50 or 60 ringgit, would it work?
Absolutely”*



Tony Fernandes

AirAsia.com



2015

24
CEOs

CEO
@ FACULTY
PROGRAMME



2016

60
CEOs

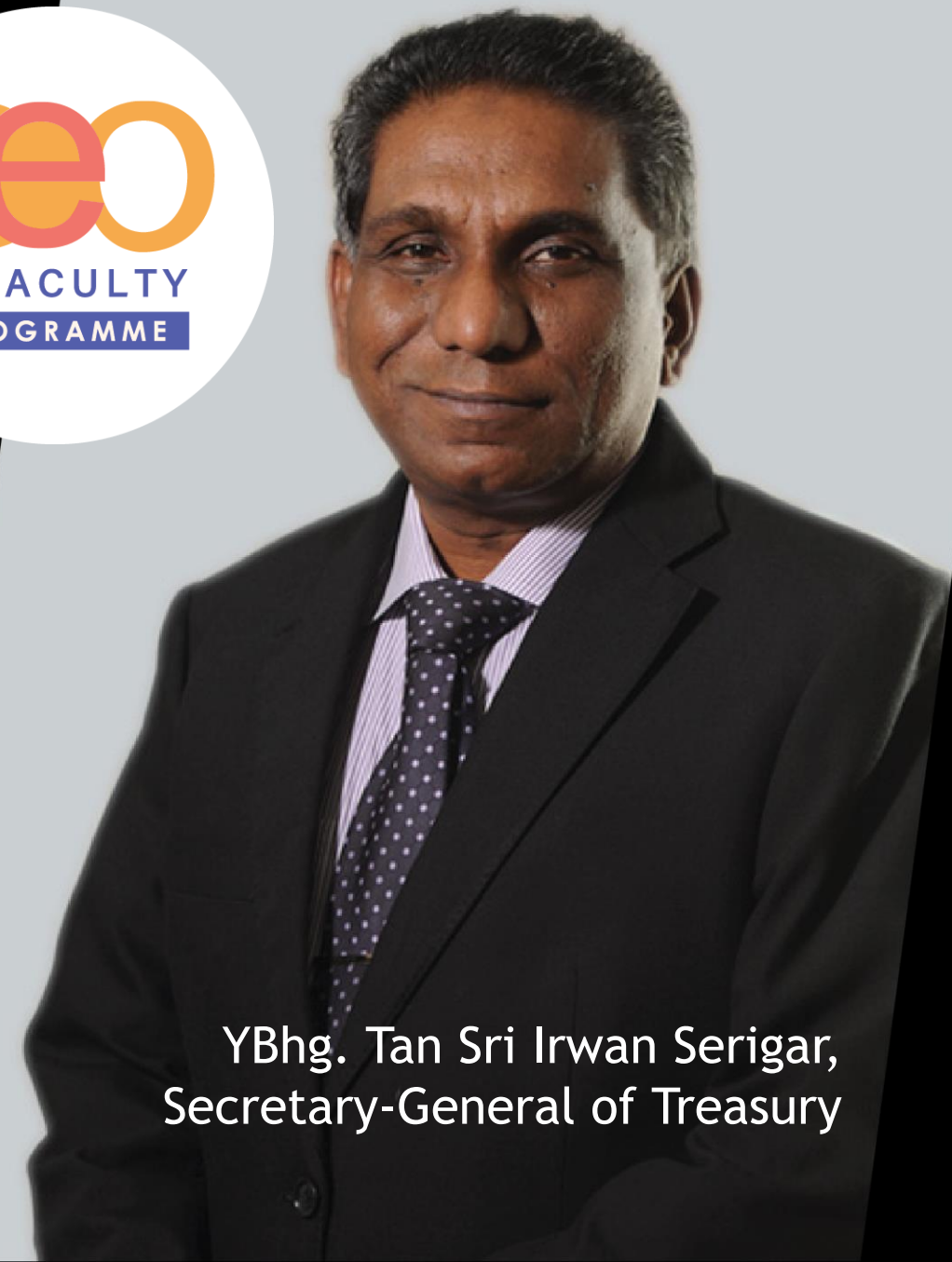




+



‘Masterclass Entrepreneurs’



YBhg. Tan Sri Irwan Serigar,
Secretary-General of Treasury



@ FACULTY
PROGRAMME

400
Hours

90
Lectures

30
Sharing
Sessions

60,000
Students & Staff

Phase 1.0

Learn from the PROs



Phase 2.0

Coached by the PROs





Accreditation of Prior
Experiential Learning





Michael Veerapan

Professional Musician, Producer, Composer



VIDEO





Michael Veerapan
Professional Musician



Raja Zulkarnain
Professional Gambus Player



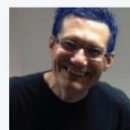
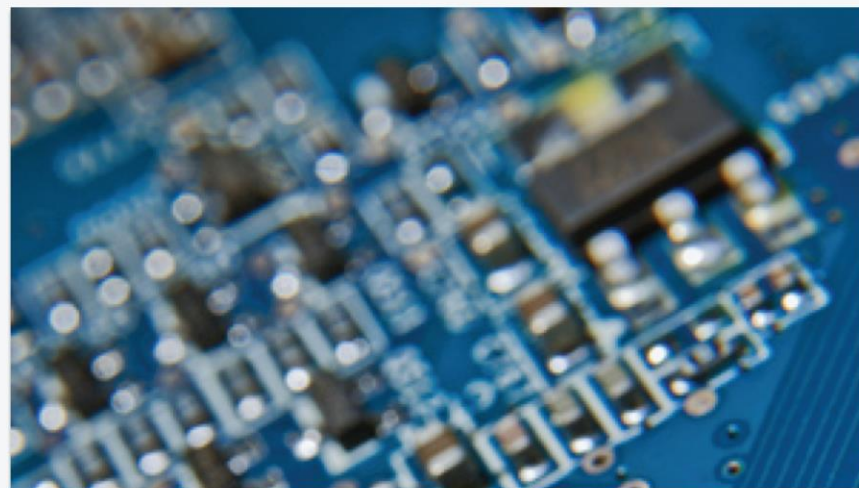
Lai Chai Gim
Marketing Manager



**APEL
(A)**

**APEL
(C)**



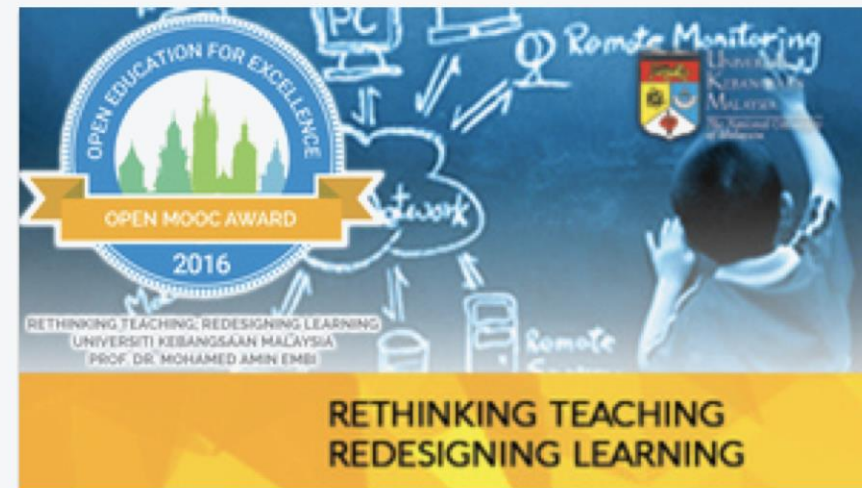


Richard Buckland

sec.edu - Security Engineering - Applied Cyber Security

Over 2016 and 2017, we will be releasing a sequence of publicly available courses in cyber security,...

18,903 Students



Mohamed Amin Embi

Rethinking Teaching; Redesigning Learning

The problem with today's education is that most educators are still teaching the way they were taught in the past....

4,432 Students



250

MOOCs

220,000

Students
from

170

Countries





MINERVA[®]
SCHOOLS AT KGI



Course  Jukebox

Courses Programs About Guide News FAQ Contact

English
Japanese

Course Jukebox

Course Jukebox is a platform that allows students to select courses and educational programs like "jukebox" at University of Tsukuba and partner universities.

We are continuing to develop Course Jukebox as a global platform for courses and programs. We are pursuing expansion of the number of partner universities as well as the enhancement of each course or program.

[More details](#)

Now **230** courses, and more.

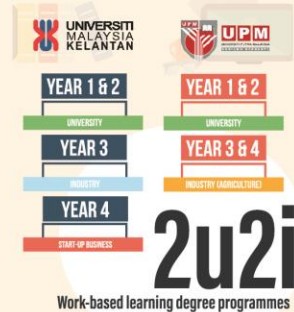
 TOP GLOBAL UNIVERSITY JAPAN



CEO
@ FACULTY
PROGRAMME



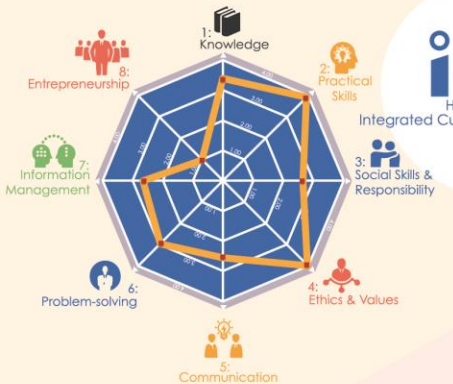
MALAYSIA
MOOC
MASSIVE OPEN ONLINE LEARNING



UNIVERSITY OF MALAYA
133rd in the World

2013	2014	2015	2016
167	151	146	133

Modular Stackable TVET
Technical & Vocational Education & Training



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133	Universiti Malaysia	Universiti Malaysia
135	Kyushu University	Kyushu University
140	Cardiff University	Cardiff University
214	Georgetown University	Georgetown University
252	Chulalongkorn University	Chulalongkorn University
252	RMIT University	RMIT University
270	Universiti Putra Malaysia	Universiti Putra Malaysia
276	Queensland University of Technology (QUT)	Queensland University of Technology (QUT)
288	University of South Australia	University of South Australia
288	Universiti Teknologi Malaysia	Universiti Teknologi Malaysia
291	University of Ottawa	University of Ottawa
296	University of California, Santa Cruz	University of California, Santa Cruz
302	Universiti Kebangsaan Malaysia	Universiti Kebangsaan Malaysia
325	Universitas Indonesia	Universitas Indonesia
327	Heriot Watt University	Heriot Watt University
330	Universiti Sains Malaysia	Universiti Sains Malaysia
363	George Washington University	George Washington University

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***Moving
Forward***

2017

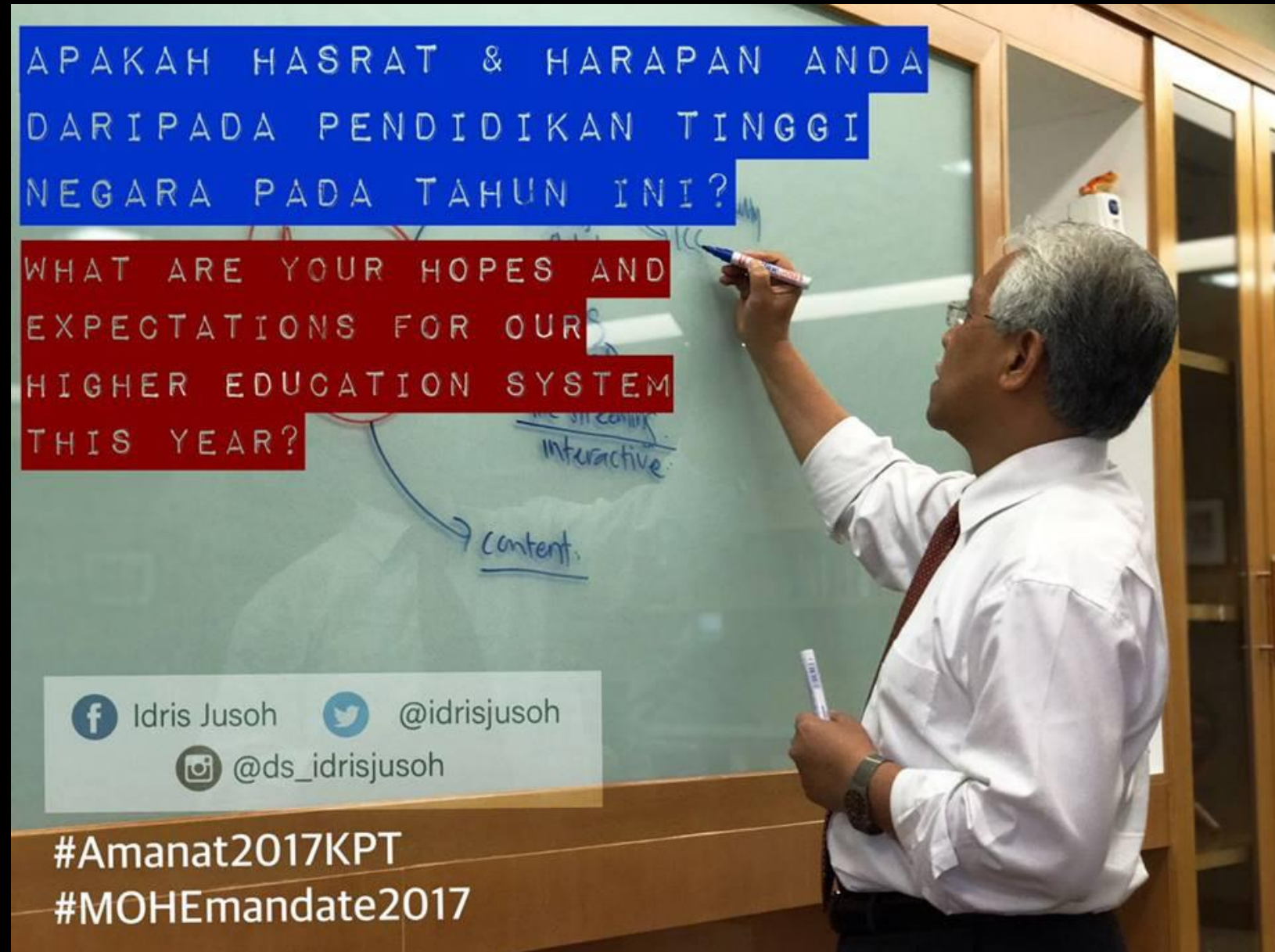
*What are your
hopes and
expectations
for Malaysian
higher
education in
2017?*

APAKAH HASRAT & HARAPAN ANDA
DARIPADA PENDIDIKAN TINGGI
NEGARA PADA TAHUN INI?

WHAT ARE YOUR HOPES AND
EXPECTATIONS FOR OUR
HIGHER EDUCATION SYSTEM
THIS YEAR?

 Idris Jusoh  @idrisjusoh
 @ds_idrisjusoh

#Amanat2017KPT
#MOHEmandate2017



30K Reach

+100 Comments



FACEBOOK



TWITTER

INSTAGRAM



Khairul Anwar Look more improvement in education policies, distance away from operational and more autonomy for IPTAs & schools.
Like · Reply · Message · January 8 at 12:40am

Haniza HR BizMgt All 'ilmu' come from Allah, so connect all knowledge with Al-Quran & Hadis. Dato Seri akan dapati ia akan lebih dihayati, kekal di hati & membentuk akhlak yang mulia. Manusia akan lebih self terpimpin & terarah independently. ROI & KPI @ result akan lebih mudah diukur. I have done this in most of my management & entrepreneurship training. InshaaAllah.
Like · Reply · Message · January 6 at 9:35am

Nur Fatin Bari'ah Idris Jusoh: saya harap supaya Dato' Seri memperbanyakkan lagi research funding kerana research funding adalah amat penting utk pelajar2 postgrad membuat research yang berkualiti tinggi.
Yg ke2, diharapkn supaya universiti2 dapat berkolaborasi dengan syarikat2 dlm bidang penyelidikan.... See More
Like · Reply · Message · January 7 at 8:06pm

Tai Zee Kin Salam Dato' Sri
Saya berharap kementerian Pelajaran tinggi dapat kurangkan pengaruh kementerian terhadap institusi pengajian tinggi dan memberikan sebanyak boleh Autonomi (Autonomy) kepada IPT.... See More
Like · Reply · Message · 13 · January 5 at 10:04pm · Edited
1 Reply

Khairul Anwar Look more improvement in education policies, distance away from operational and more autonomy for IPTAs & schools.
Like · Reply · Message · January 8 at 12:40am

Balamuralithara Balakrishnan Tidak bebankan pensyarah dengan KPI yang melibatkan semua elemen; tolong adakan track yang bersesuaian dengan minat dan kebolehan pensyarah agar kita sama sama menuju kearah kejayaan. Soaring Upwards...
Like · Reply · Message · 14 · January 5 at 5:29pm
3 Replies

Hafidz Baharom Reinstiute MyBrain and MyPhD for all courses. Especially the social sciences and arts.
Like · Reply · Message · 1 · January 6 at 7:02am



Hafidz Baharom Reinstiute MyBrain and MyPhD for all courses. Especially the social sciences and arts.
Like · Reply · Message · 1 · January 6 at 7:02am

Muhamad Bustaman Abdul Manaf Jangan jadi U tempat banyak teori dan kajian, kurang berpijak di dunia nyata. Latihan industri juga utk pensyarah. Design course content yg highly practical to real world.
Like · Reply · Message · 3 · January 5 at 9:44pm

Nur Fatin Bari'ah Idris Jusoh: saya harap supaya Dato' Seri memperbanyakkan lagi research funding kerana research funding adalah amat penting utk pelajar2 postgrad membuat research yang berkualiti tinggi.
Yg ke2, diharapkn supaya universiti2 dapat berkolaborasi dengan syarikat2 dlm bidang penyelidikan.... See More
Like · Reply · Message · January 7 at 8:06pm

Abd Karim Alias Additional points for consideration:
- Roles of AKEPT — while it's good that AKEPT is refocusing on institutional leadership, they should also strengthen the part on academic scholarship to enhance the quality of teaching and learning. Shifting the es... See More
Like · Reply · Message · 1 · January 8 at 7:38am

Muhammad Shahmi Mohon kad debit yg ganti baucer buku dpt diberi pada awal sem.. sebab baucer buku sebelum ni selalu dapat lambat.. kalau diberi pada awal sem dapat membantu pelajar mendapatkan bahan rujukan
Like · Reply · Message · 2 · January 5 at 10:57pm

Sya Kamarudin Dato Seri.. mohon untuk perbanyakkan pemberian Skim Latihan Akademik Bumiputera di IPTA dan juga biasiswa lain untuk kemudahan pelajar pascasiswazah. Terima kasih.
Like · Reply · Message · 6 · January 5 at 8:54pm

Faezah Abd Rashid Biasiswa utk gov staff esp.guru utk smbg phd...
#roadtotopibulatcomingsoon
Like · Reply · Message · January 5 at 9:19pm

***Moving
Forward***

2017

?

‘Jarvis’

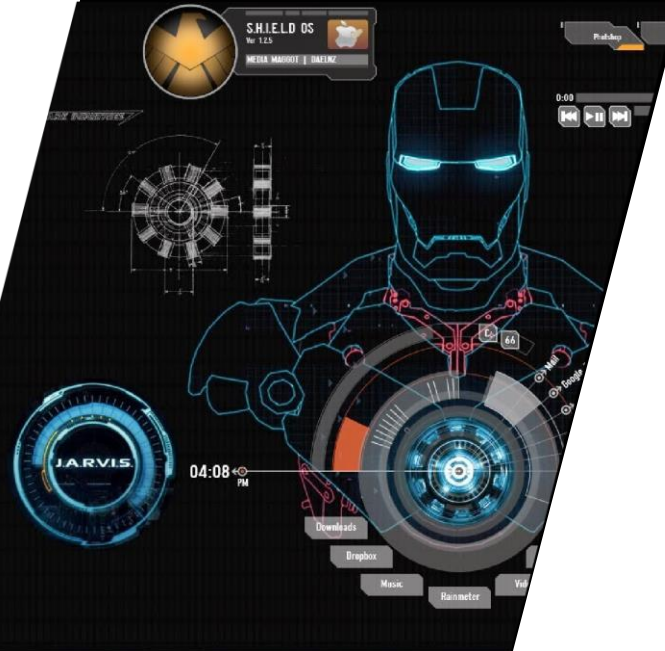
?

‘Siri’

?

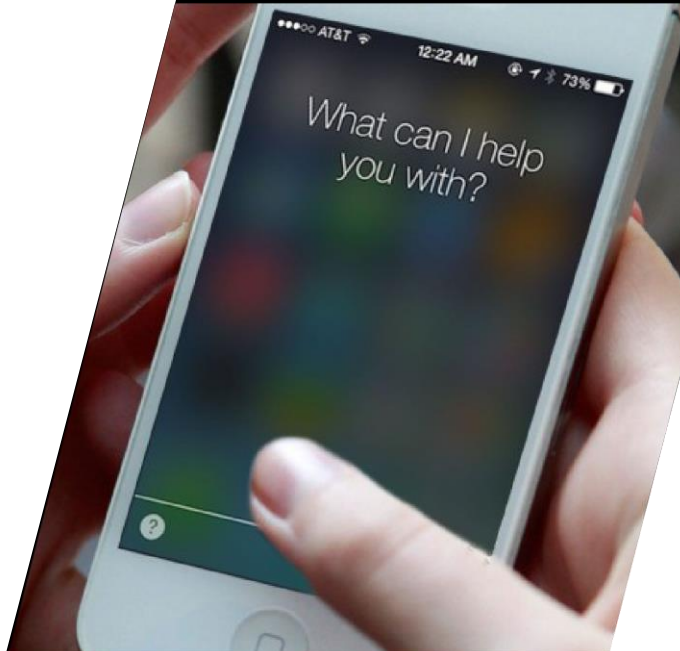
‘Cortana’

Iron Man &
Mark Zuckerberg



‘Jarvis’

Apple



‘Siri’

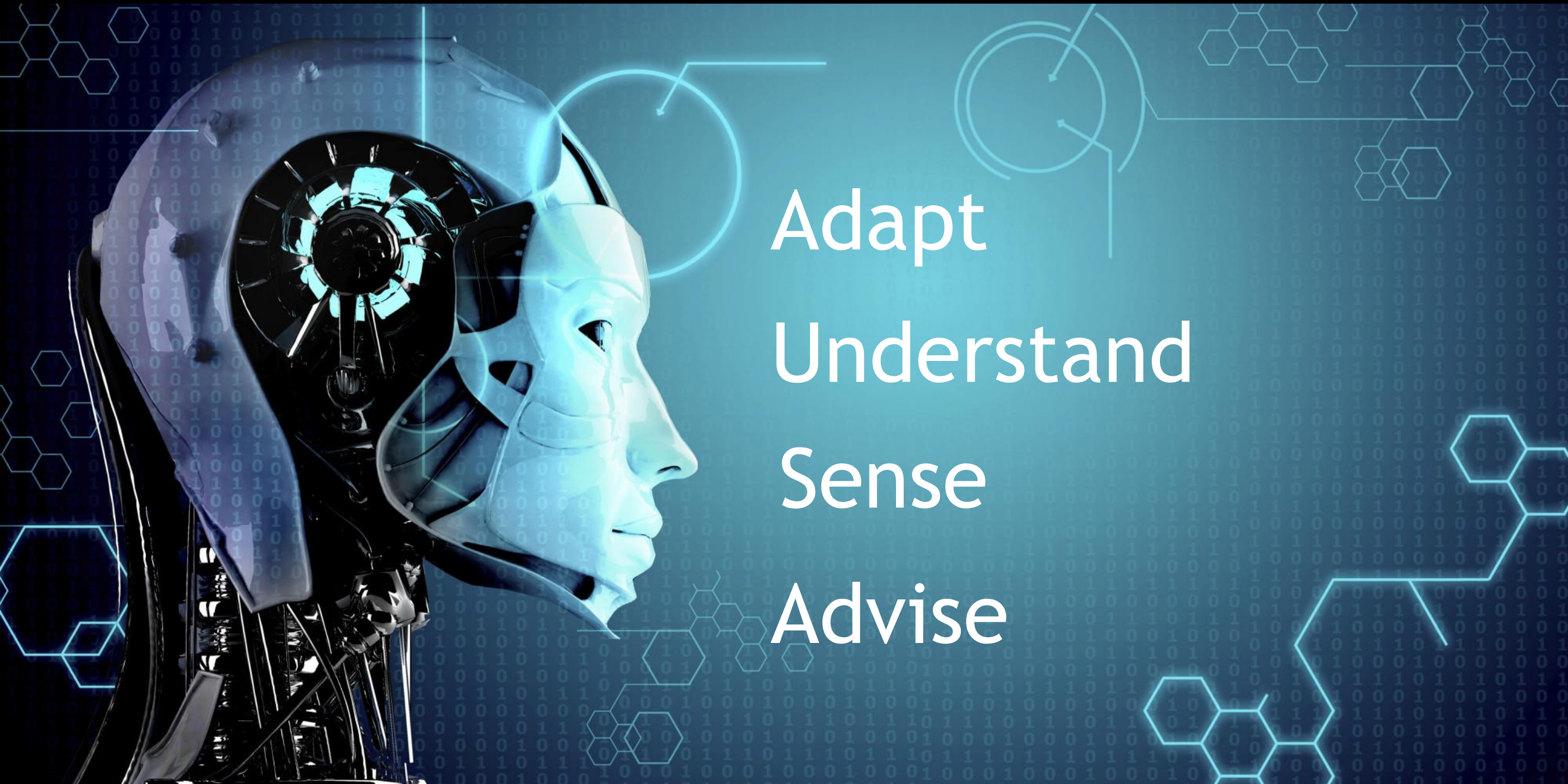
Microsoft



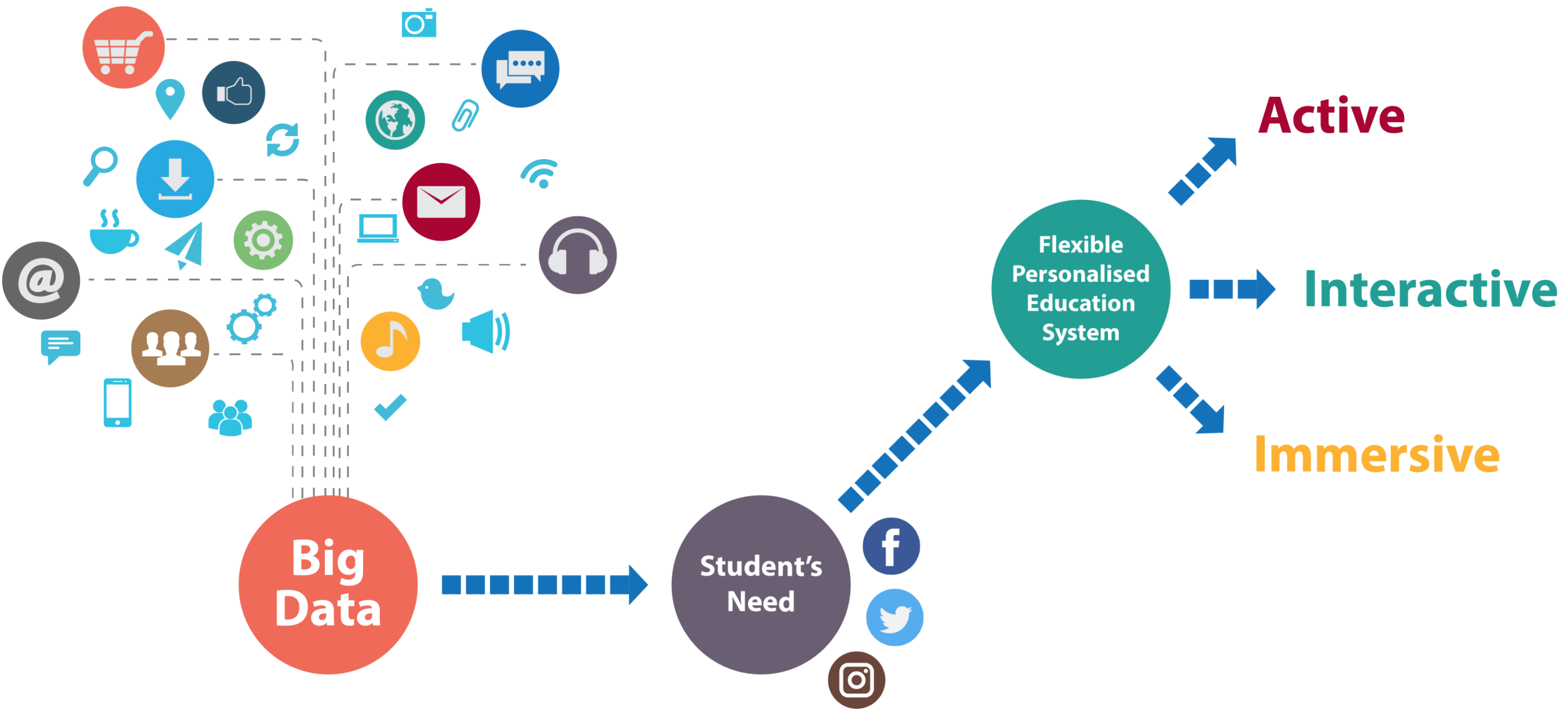
‘Cortana’

Artificial Intelligence





Adapt
Understand
Sense
Advise

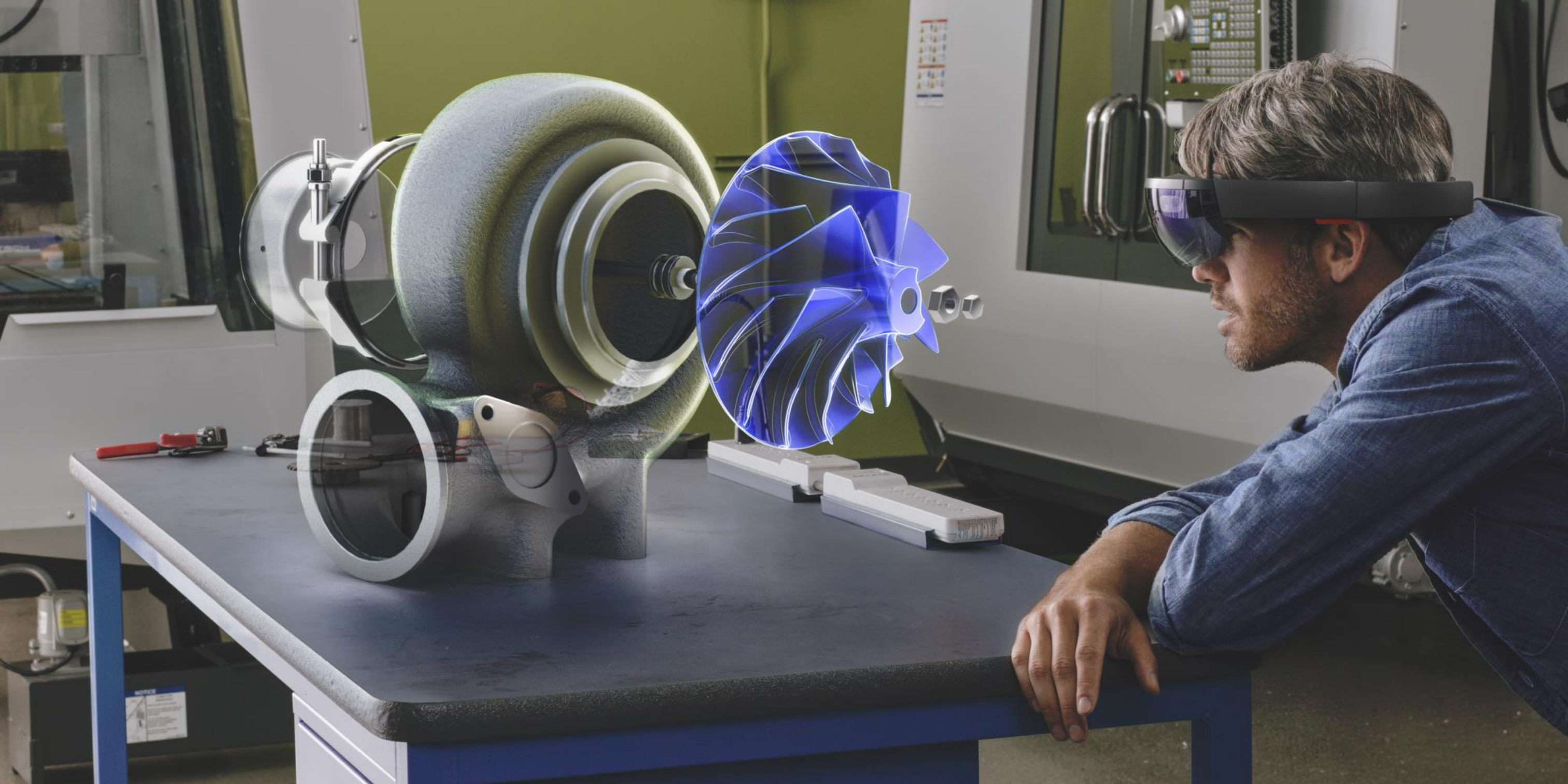




A housing estate is a group of houses and other buildings built together as a single development. The estates may vary from country to country. An estate of housing estate is usually built by a single contractor, with only a few types of houses building design, or they have a similar appearance. Generally housing estates are sometimes built in a row.

In America, the term "Gleason, Long King and Seal" is often used to refer to detached houses in the form of town houses or small commercial facilities. In Europe and America, the term "estate" is often used to refer to the style of houses of various types associated with the historical context, often used to refer to houses with established and common features, such as a large garden, and are frequently used to refer to

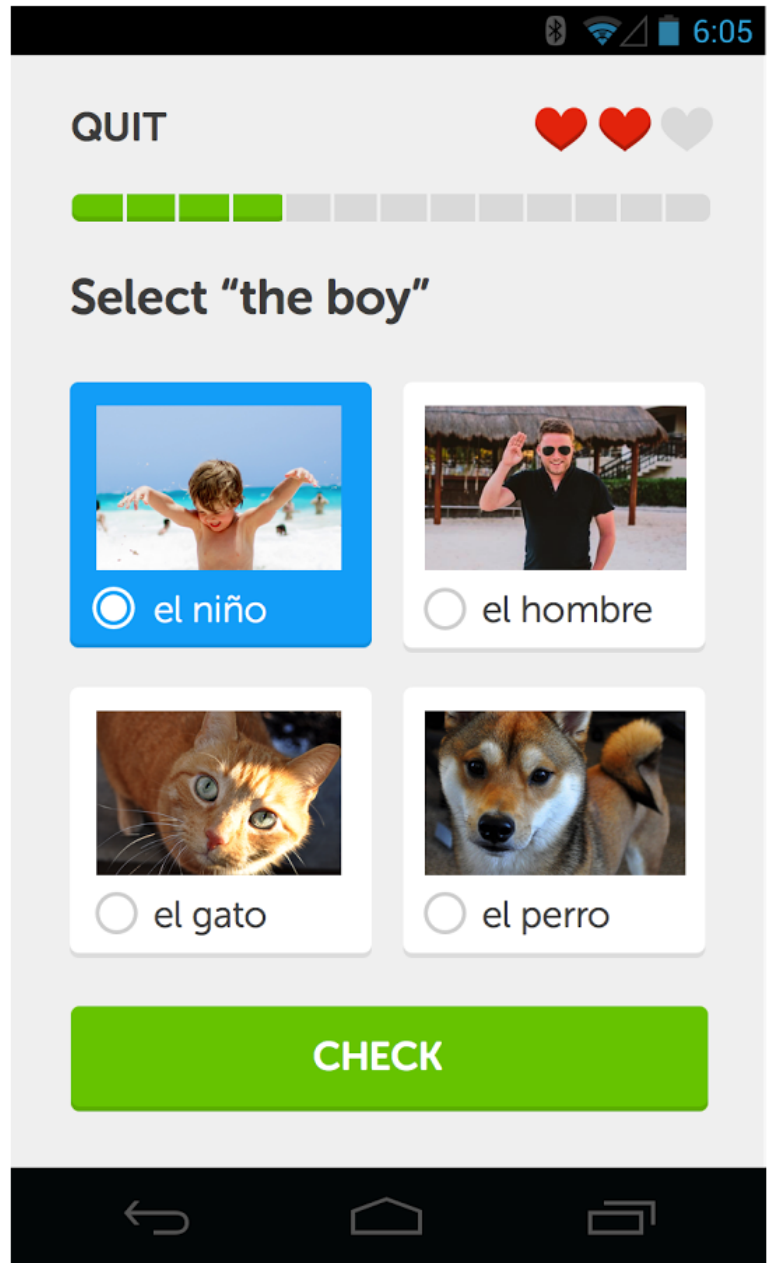
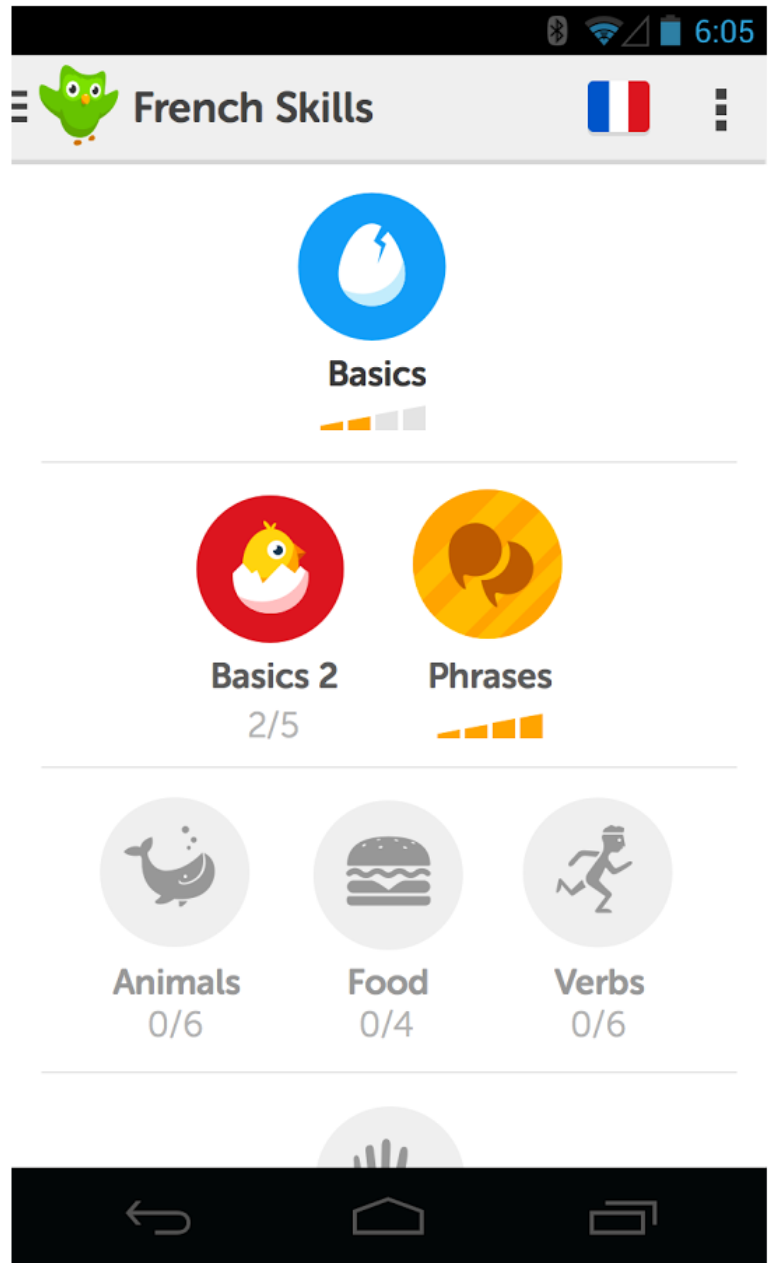
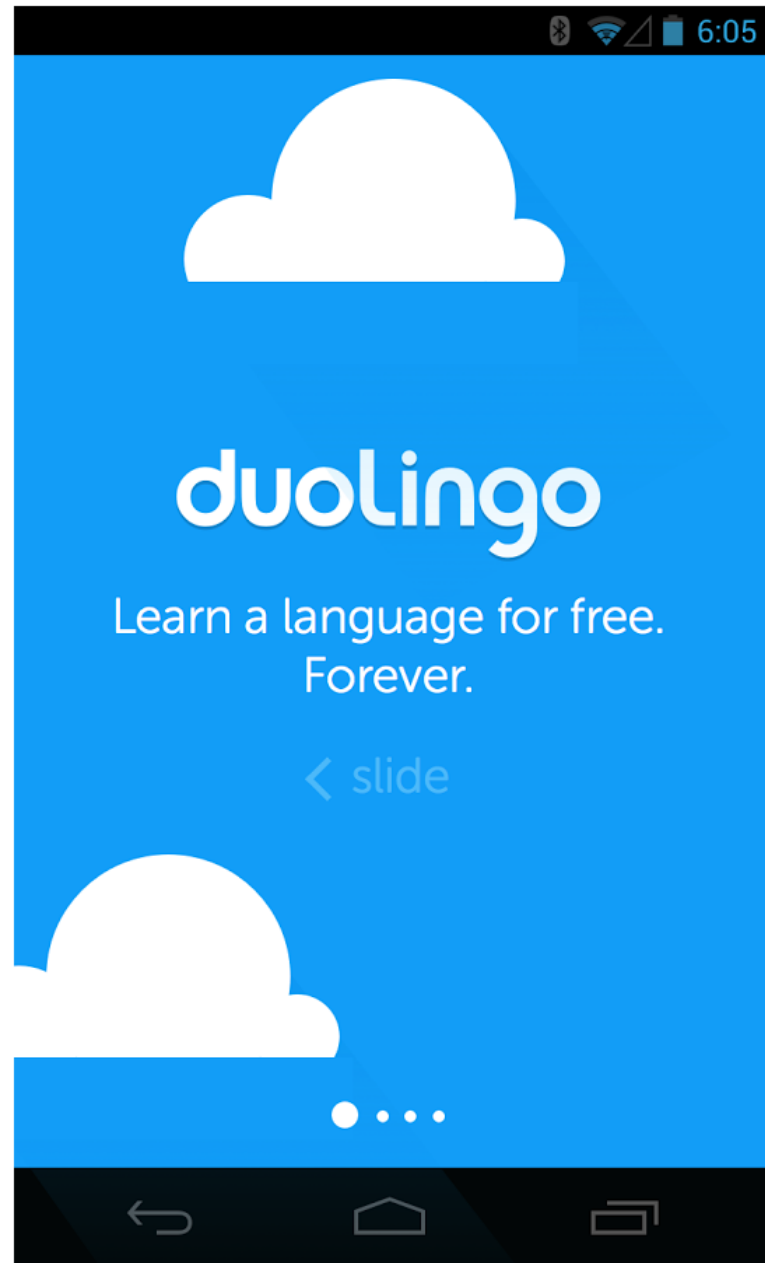




A man with short brown hair, wearing a grey t-shirt, is speaking at a podium. A microphone is positioned in front of him. The background is dark. The image is slightly blurred.

Social VR Demo

2016 Oculus Connect 3: Mark Zuckerberg Keynote



***How tech-savvy
is our higher
education
system?***



Chief Information Officer



Dato' Kamel Mohamad

*Deputy Secretary-General (Management),
Ministry of Higher Education*

Redesigning Teaching & Learning

Google



Youtube



Facebook



Instagram



Twitter

Anywhere

Anytime

Anyone

Google



Youtube



Facebook



Instagram



Twitter

Heutagogy



Self Directed
Learning

PAST



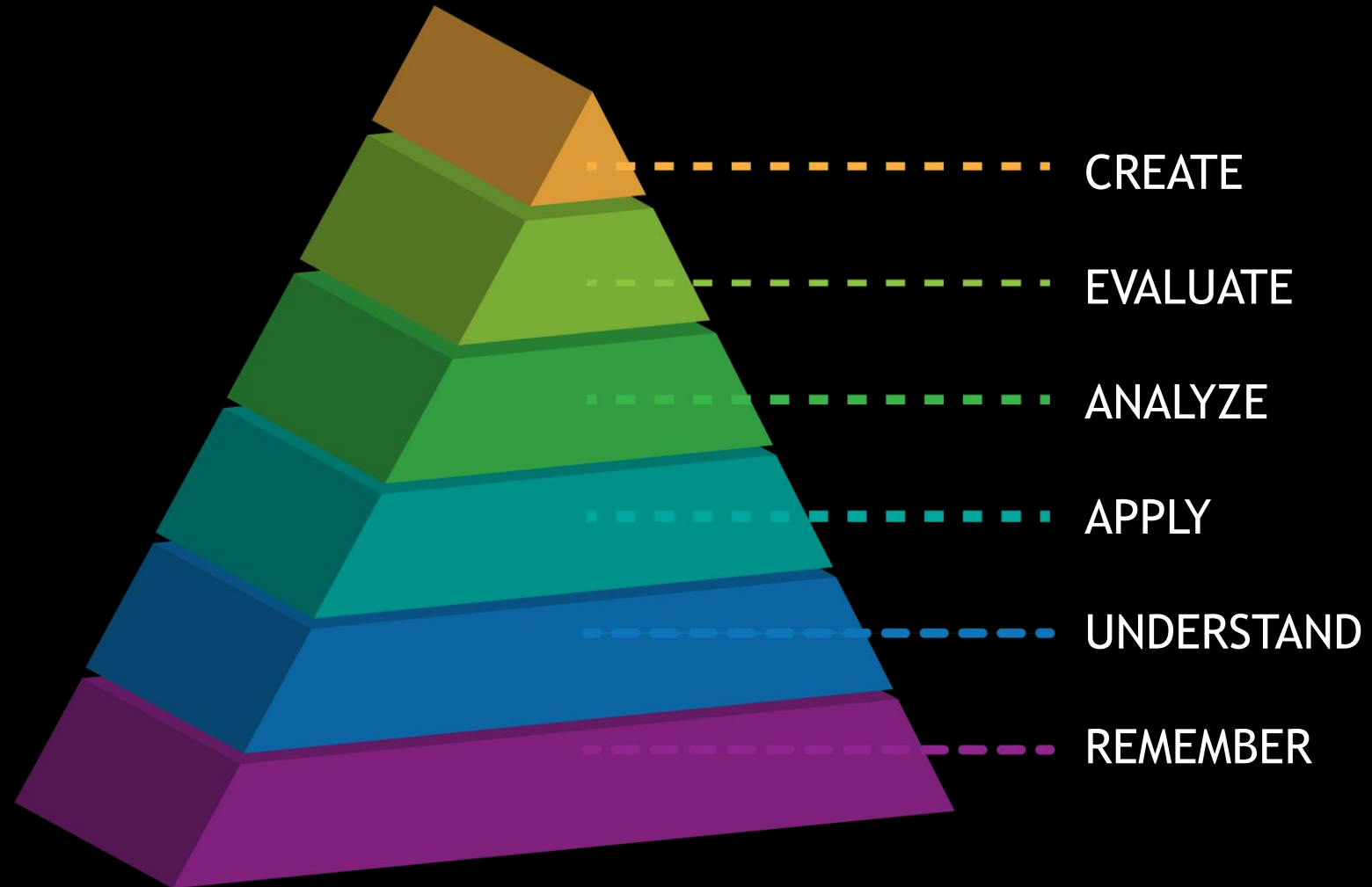
Recipients of Knowledge

PRESENT

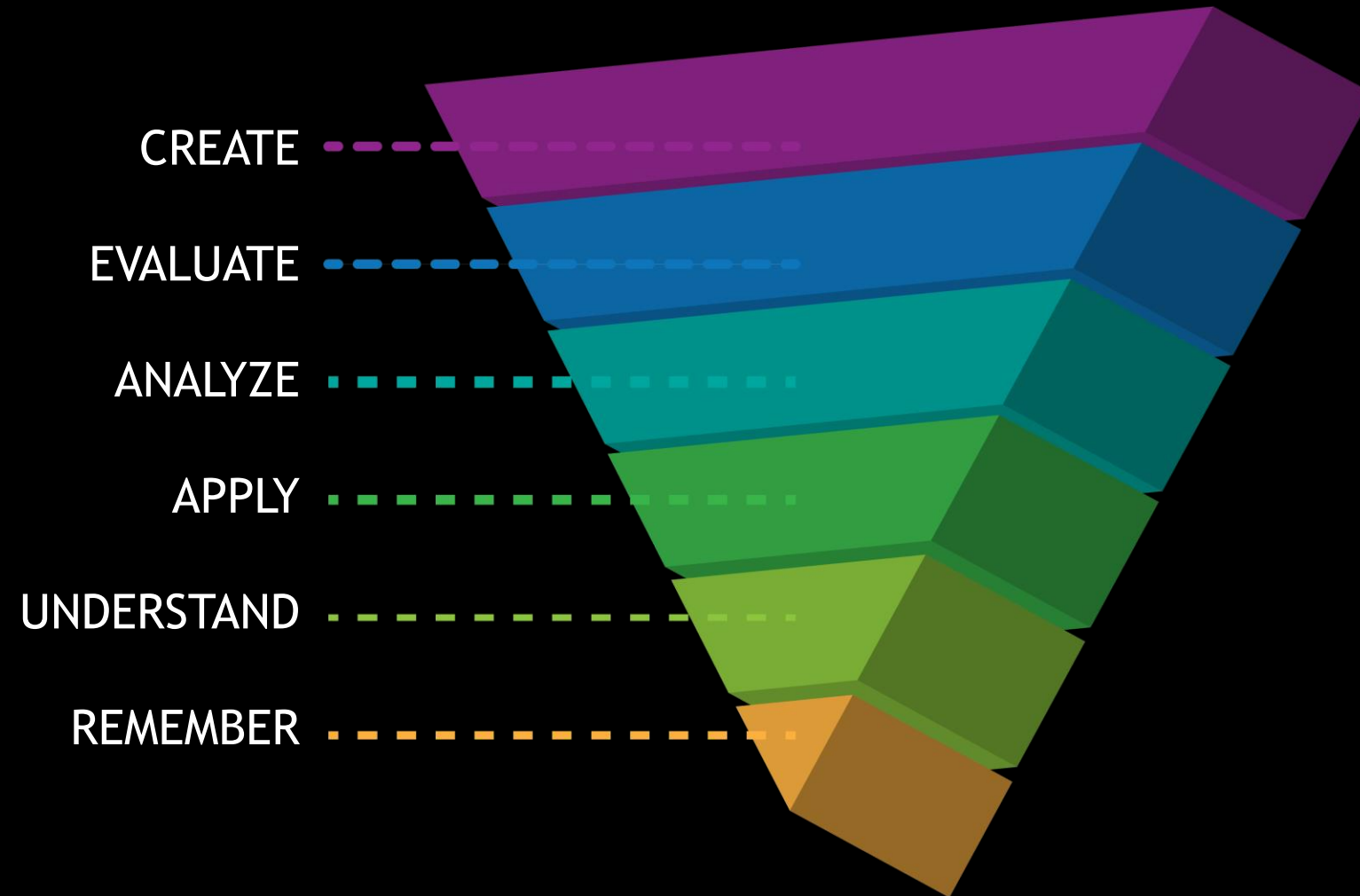


Co-curators of Knowledge

BLOOM'S TAXONOMY

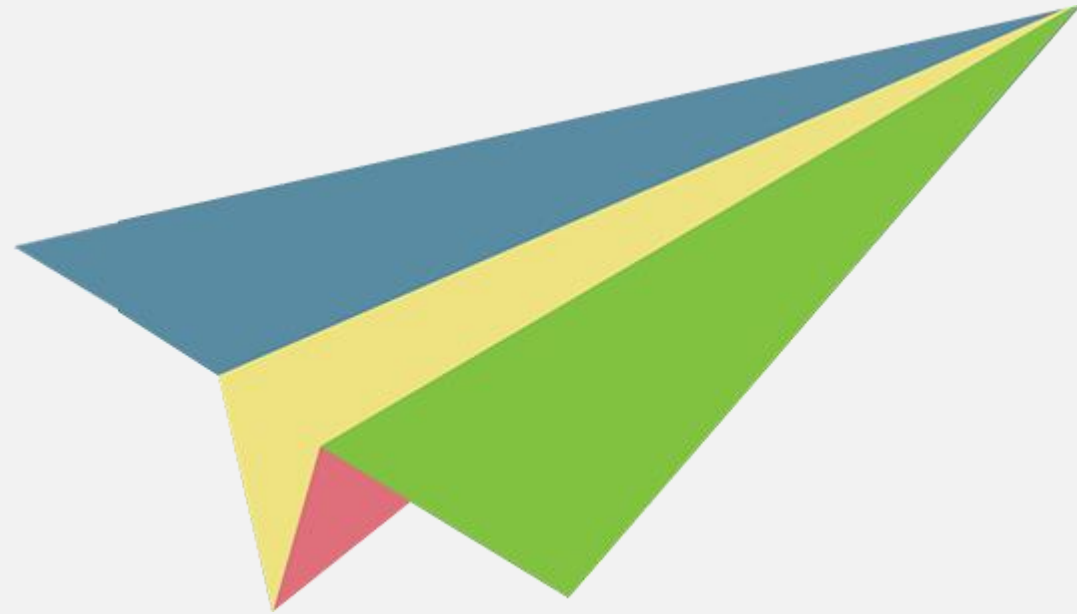


BLOOM'S TAXONOMY





Our teaching & learning must be **more interactive**, more active, more immersive, **challenge-based**, and include role-playing.



***Reimagining &
Redesigning
Malaysian Higher
Education Awards
2017***

**2016 Open MOOC
Award recipient.**

**“Rethinking Teaching,
Redesigning
Learning”**



Prof. Dato' Dr Mohamed Amin Embi
Universiti Kebangsaan Malaysia

I call upon higher education institutions to create an **incentive** mechanism for **successful innovations in teaching & learning.**





SCIENCE | TECHNOLOGY | ENGINEERING | MATHEMATICS



MINISTRY OF HIGHER EDUCATION
+
MINISTRY OF EDUCATION
+
MINISTRY OF SCIENCE, TECHNOLOGY
& INNOVATION

NATIONAL STEM ACTION PLAN



YOUNGSCIENTISTS
NETWORK
MALAYSIA



Let's make a positive and tangible impact!



**Congratulations,
Datuk Prof. Dr. Asma Ismail,
5th President, ASM**



Graduate Employability



74.4%

2012



77.2%

2016

(+2.8%)





87.1%



88.6%



97.2%

Volunteerism



SUKARELAWAN SISWA

Student volunteers





KEMENTERIAN PENDIDIKAN TINGGI



MALYSIAN UNIVERSITIES VOLUNTEERS COUNCIL

Year	Number of Activities	Volunteers Involved
2013	550	94390
2014	615	99005
2015	705	99850
2016	865	117823



Beginning September 2017, the
Ministry will be implementing the
inaugural **GAP YEAR 2017**
programme, championed by **8 public
universities**



UMS
UNIVERSITI MALAYSIA SABAH

BOTTOM 40



KUALA LUMPUR 2017

29TH SEA GAMES

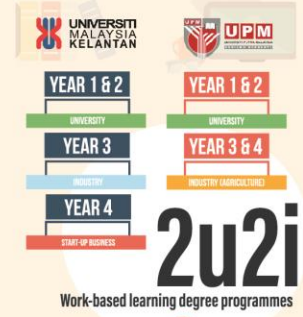




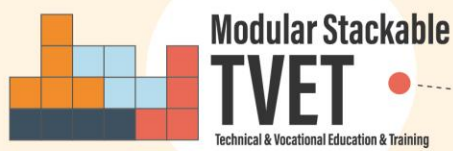
Translational Research



CEO
@ FACULTY
PROGRAMME



2u2i
Work-based learning degree programmes



REDESIGNING HIGHER EDUCATION

SOARING UPWARDS
MALAYSIAN HIGHER EDUCATION

RECOGNITION

TOP 100 Subjects in the World

SUBJECT	2015	2016
DEVELOPMENT STUDIES	32	30
ENGINEERING (ELECTRICAL & ELECTRONIC)	51-100	37
ENGINEERING (CHEMICAL)	51-100	46

TOP 1% in the World
Malaysian Research Universities

*There are approximately 30,000 universities worldwide

- | | | |
|-----|---|---|
| 1 | MIT | Massachusetts Institute of Technology (MIT) |
| 6 | University of Oxford | University of Oxford |
| 12 | National University of Singapore (NUS) | National University of Singapore (NUS) |
| 75 | The University of Nottingham | The University of Nottingham |
| 133 | Universiti Malaysia | Universiti Malaysia |
| 135 | Kyushu University | Kyushu University |
| 140 | Cardiff University | Cardiff University |
| 214 | Georgetown University | Georgetown University |
| 252 | Chulalongkorn University | Chulalongkorn University |
| 252 | RMIT University | RMIT University |
| 270 | Universiti Putra Malaysia | Universiti Putra Malaysia |
| 276 | Queensland University of Technology (QUT) | Queensland University of Technology (QUT) |
| 288 | University of South Australia | University of South Australia |
| 288 | Universiti Teknologi Malaysia | Universiti Teknologi Malaysia |
| 291 | University of Ottawa | University of Ottawa |
| 296 | University of California, Santa Cruz | University of California, Santa Cruz |
| 302 | Universiti Kebangsaan Malaysia | Universiti Kebangsaan Malaysia |
| 325 | Universitas Indonesia | Universitas Indonesia |
| 327 | Heriot Watt University | Heriot Watt University |
| 330 | Universiti Sains Malaysia | Universiti Sains Malaysia |
| 363 | George Washington University | George Washington University |

TOP 51-100

UNIVERSITY	Subjects
UNIVERSITY OF MALAYA	Architecture / Built Environment, Computer Science & Information Systems, Education, Engineering - Chemical, Engineering - Mechanical, Aeronautical & Manufacturing, English Language & Literature, Linguistics
UM APEX	Architecture / Built Environment, Computer Science & Information Systems, Development Studies, Education, Engineering - Chemical & Biotechnological, Engineering - Mechanical, Aeronautical & Manufacturing, Environmental Science, Pharmacy & Pharmacology
UNIVERSITI TEKNOLOGI MALAYSIA	Architecture / Built Environment, Education, Engineering - Chemical, Engineering - Chemical & Biotechnological, Social Policy & Administration
UTM	Architecture / Built Environment, Education, Engineering - Chemical, Engineering - Chemical & Electronic
UM APEX	Agriculture & Forestry

11 International University Branches in Malaysia



TOP 50 UNDER 50

UNIVERSITY	RANK
UNIVERSITI PUTRA MALAYSIA	17
UNIVERSITI TEKNOLOGI MALAYSIA	25
UNIVERSITI KEBANGSAAN MALAYSIA	26
UNIVERSITI SAINS MALAYSIA	33

RESEARCH
Growth in Research Output - last 10 years.



THOMSON REUTERS
THE WORLD'S MOST INFLUENTIAL SCIENTIFIC MINDS 2014 - 2016



Cambridge Intersivarsity Debate Champion



KUALA LUMPUR
MOST AFFORDABLE CITY
IN THE WORLD FOR STUDENTS
QS BEST STUDENT CITIES SURVEY 2013/14 & 2014/16

RM 5.58 billion
Invested into research
2007-2015



RM 7.17 billion

(or 28.5% Return of Research
Investment - RoRI)



Diverse Sources of Income from
Fundamental + Commercialisation
(Expert consultancy, Book Publications,
Training, products)

The Ministry's investments into research has produced many successes

TOP 1% GLOBALLY CITED RESEARCHERS



Recognition by:



RECOGNITION BY CLARIVATE ANALYTICS

★ Frontier Researcher



★ Young Researcher



★ Highly Cited Review

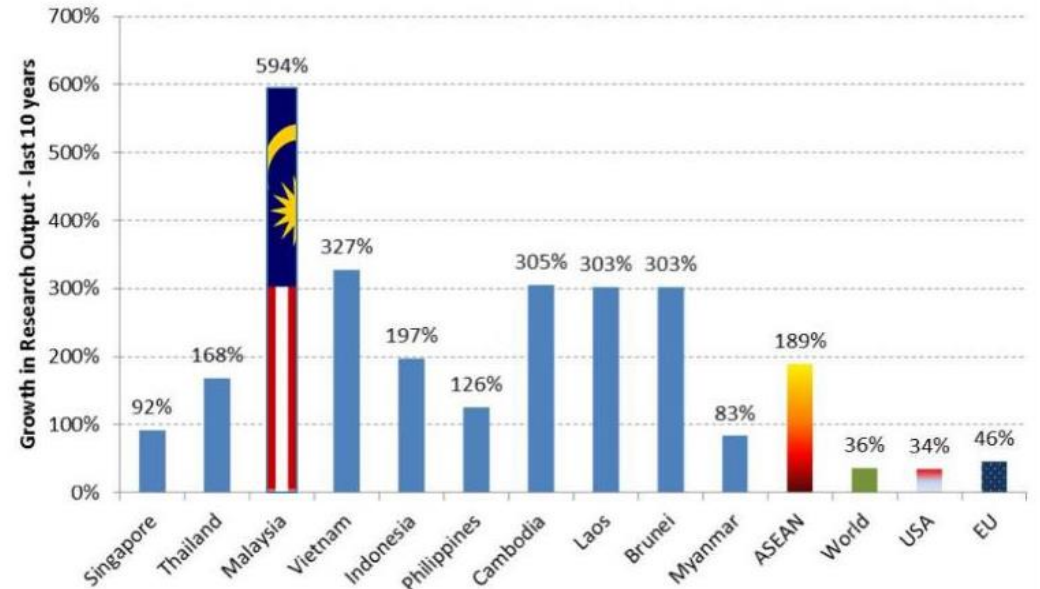


RECOGNITION BY ELSEVIER

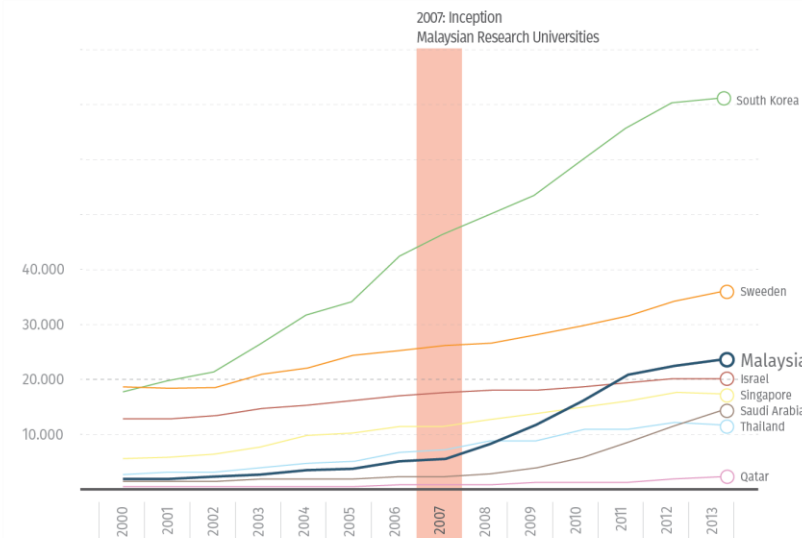
★ International Collaboration



★ Women in the Science



Malaysia's Research Landscape
Grew by **594%** between 2005 - 2014



Since the inception of the Malaysian Research Universities in 2007, Malaysia has seen a huge jump in research and publications.

- 3.1x increase in publications (highest in the world).
- In 2009, bold overtook Thailand and in 2011, we overtook Singapore.
- 4.0x increase in citations.
- 70% Research University publications
- 11% yearly growth for patents filed (2007-2011).
- RM1.25 billion income generated by Research Universities from the industry, NGOs & agency consultations.

***How can we **translate**
university research into
direct benefits for the
society?***





Translational Research

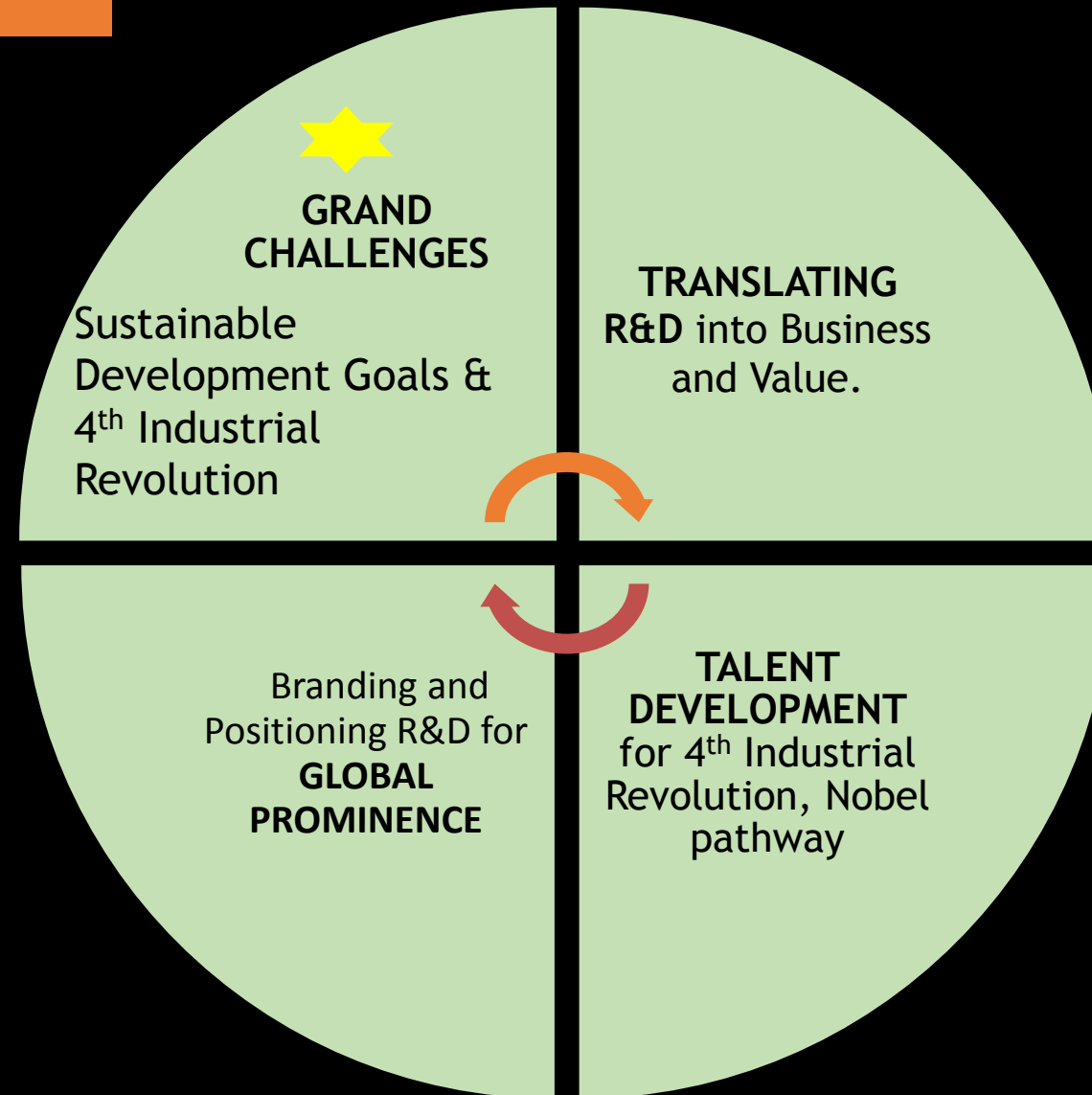


2017 Research Priority Roadmap

Malaysia Research University Network (MRUN) will undertake the projects in partnership with the other IPTs (Water & Food Security, Health & Wellbeing, B40, Climate change)
- knowledge assimilation and diversification of source for research funding

Matching grants, joint publications in high impact journals, sharing of advanced facilities and experts

Wealth & Value Creation across the Quadruple helix - academia, industry, government and community



Fostering IPT-led Growth Economy

Focus on niche and frontier and cutting edge research (Robotics, Digital revolution, LED, Future internet technologies, Transportation & Logistics)

UN CAMPAIGN SUSTAINABLE DEVELOPMENT GOALS





Water Security)



MOHE Geo Tourism



Automation and robotics



MoHE B40 – Affordable Homes



MoHE Food Security

TVET





JABATAN PENDIDIKAN
KOLEJ KOMUNITI
KEMENTERIAN PENDIDIKAN TINGGI



**World Champion of the 21st FIRA
Roboworld Cup Beijing 2016**



**worldskills
ASEAN**
Kuala Lumpur 2016

**POLITEKNIK
MALAYSIA**



**9e INTERNATIONAUX
Abylympics**
BORDEAUX 2016





NBOS

STRATEGI LAUTAN BIRU KEBANGSAAN

*My Beautiful
New Home*

Collaborations

***(Collegiality & Commonalities with
Government Agencies & Industries)***



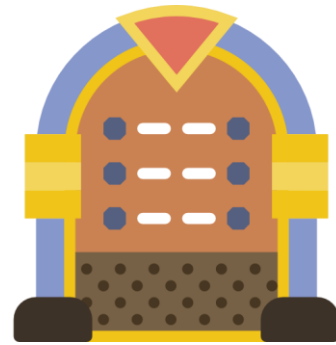
South Klang Valley University Network



*In 2017, Guidelines on **Commonalities & Collegiality** will be published, focusing on collaboration between public and private higher education institutions with **government agencies and industry**...*



Global Mobility Juke Box





Beyond Campus & Beyond Borders

Partner University



CiC Research Partner

Internationalisation



159,000 +
International Students in Malaysia
(schools + higher education)

129,000
Higher education

Target:
250,000
By 2025





BANK NEGARA MALAYSIA
CENTRAL BANK OF MALAYSIA



**ASIA School
of Business**



**MIT Sloan
MANAGEMENT**



**HERIOT
WATT
UNIVERSITY**



Curtin University
Sarawak Malaysia

UNIVERSITY OF
Southampton



MONASH
University



The University of
Nottingham



**SWIN
BUR
NE** * *
SWINBURNE
UNIVERSITY OF
TECHNOLOGY



Raffles
College of Higher Education



**University of
Reading**



厦门大学
XIAMEN UNIVERSITY



**Newcastle
University**

Tahniah & Thank you



In 2017, the focus for internationalisation will be on “**Summer Semester**” programmes.

I also request that MQA facilitates this process to enable international credit transfer.





***Private
Higher Education
Institutions***



Universities



*University
Colleges*



*Branch
Campuses*



*Private
Colleges*



JPT
JABATAN PENDIDIKAN TINGGI

**AMENDMENT OF
PRIVATE HIGHER EDUCATIONAL
INSTITUTIONS ACT**

(AKTA 555)



Improved Business Processes



SETARA'17

MyQUEST
2017



Income generation



-9.3%

**Higher Education
Budget 2017**

1. In-line with: PSPTN



HE Blueprint



- 2. Enhanced Expenditure Efficiency**
- 3. Towards Financial Sustainability**
- 4. Reducing dependency on government funds.**



Public Universities



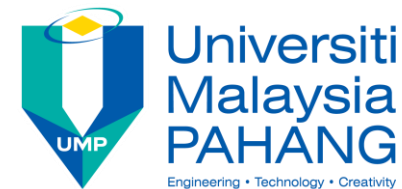
12% - 30%

***Income
generated***

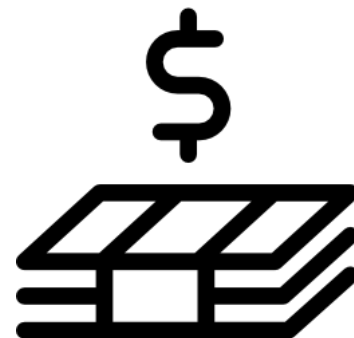


- **Unlocking potential assets**
- **Increasing commercialization of research activities and the offering of consultancy services**
- **Fundraising from alumni and industry**
- **Strategic financial and assets investments**
- **Creation of waqf and endowment funds**

7 Public Universities



WAQF



RM 13.25 million



AKEPT

AKADEMI KEPIMPINAN PENDIDIKAN TINGGI

AKEPT is the heart
and soul of leadership
development for
Malaysia's higher
education system

2016



236
academicians

AKEPT
AKADEMI KEPIMPINAN PENDIDIKAN TINGGI

SUCCESSION PLANNING

2017





**Treasurer =
Chief Financial
Officer**



**Registrar =
Human
Resource
Specialist**



MQA

**2016:
APEL (A)
APEL (C)**

**2017:
KKM 2.0
Single TVET QA
Performance-based QA
JTPPK**

Google Play Search

Categories Home Top charts New releases

Apps

- My apps
- Shop
- Games
- Family
- Editors' Choice

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myMQR

GOVERNMENT OF MALAYSIA Education ★★★★★ 11

This app is compatible with your device.

Add to wishlist Install

ACREDITED PROGRAMME

ACREDITED PROGRAMME	MQF
utp	WHAT IS MQF? MQF is an instrument that develops and classifies qualifications based on a set
petroleum engineering	MQF Qualifications The MQF has eight levels of qualification three national higher education sectors

Please Enter Programme Reference No

Search

Note: For more details please refer to www.mqa.gov.my/mqr

Total record: 6

Name of HEP: Universiti Teknologi PETRONAS (UTP)
Programme Reference No: A11414
Name of Programme: Master of Science in Petroleum Engineering

myMQR merupakan satu inisiatif oleh Agensi Kelayakan Malaysia (MQA) untuk memberi kemudahan kepada orang awam bagi membuat semakan status akreditasi penuh melalui telefon pintar. Objektif myMQR

Similar

- EMGS Mobile App
EMGS
Education Malaysia
Global Services, Study in Malaysia, Education
★★★★★ FREE

More from developer [See more](#)

- MyHRMIS Cuti
GOVERNMENT OF MALAYSIA
MyHRMIS Cuti JPA
★★★★★ FREE
- mySPA8i
GOVERNMENT OF MALAYSIA
mySPA8i - aplikasi mudah alih untuk permohonan jawatan
★★★★★ FREE



Target

RM 2
billion



Result

RM 3.4
billion

Target



Result

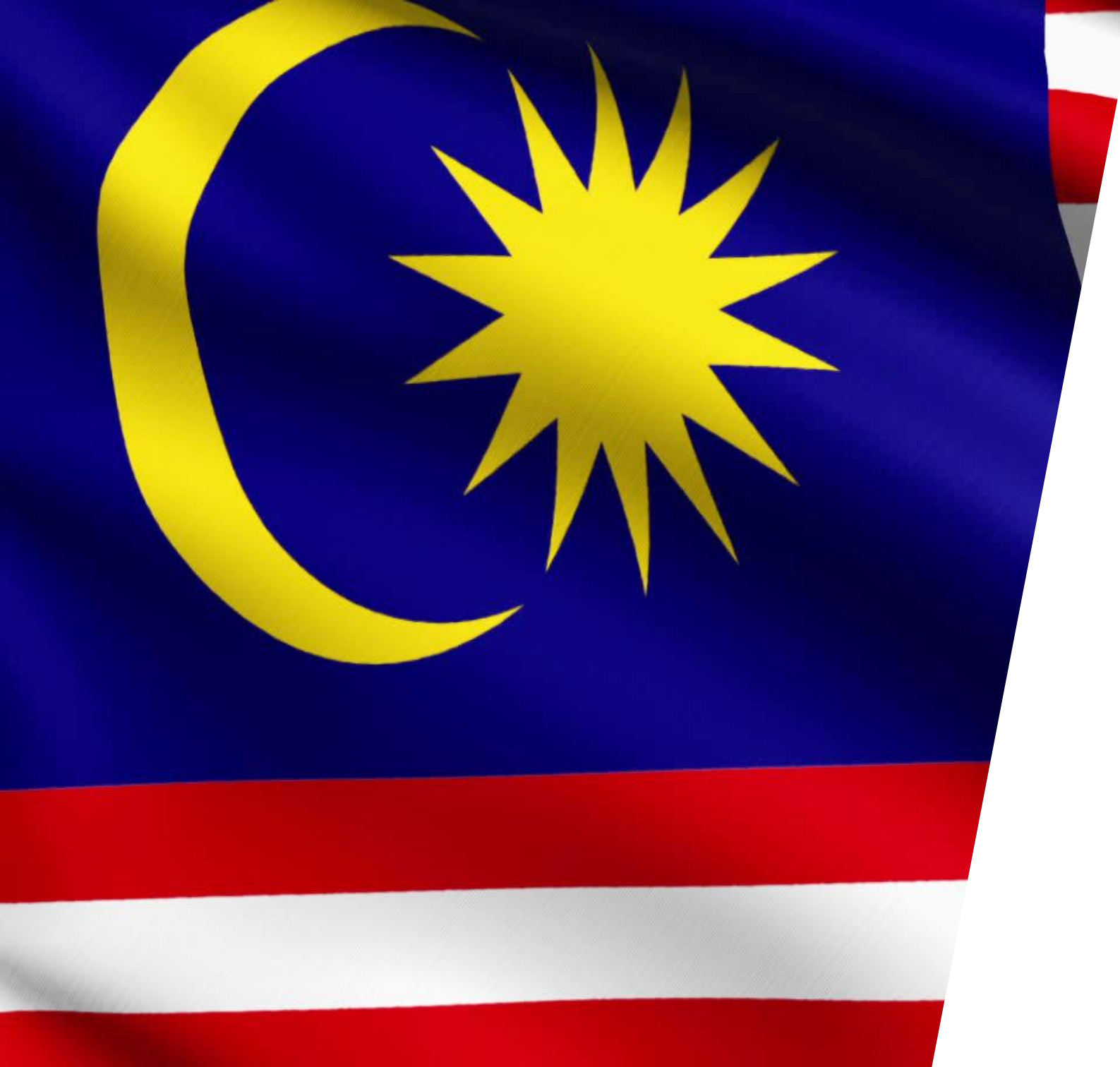


*“ Education savings today,
Assurance of a better tomorrow “*

Redesigning Higher Education

**SOARING
UPWARDS**
MALAYSIAN HIGHER EDUCATION





*Our **Higher Education** can and will be the **the best** in the world*



My hope for the future of higher education

- 🎯 That all educators will redesign teaching and learning to be more immersive;***
- 🎯 That students will be balanced and develop holistically;***
- 🎯 That researchers are able to translate research for societal good;***
- 🎯 That industry is able to lend their expertise; and***
- 🎯 That all of this is enhanced through the assimilation of technology.***



***We are in
this together***



*May we conduct
ourselves
ethically and
with full integrity
always.*

***Best of Luck!
Thank You***

AMANAT 2017
MENTERI PENDIDIKAN TINGGI

Redesigning
Higher Education

MEREKA BENTUK PENDIDIKAN TINGGI