



Datuk Dr. Mary Yap Kain Ching

*Deputy Minister of Higher Education
Ministry of Higher Education Malaysia*



***Developing Policy in a
Fast Changing,
Increasingly
Technology
Influenced World:
Malaysia's
Experience***

EDUCATION WORLD FORUM

Park Plaza Westminster Bridge Hotel, London | 24 January 2018

OUTLINE OF PRESENTATION

1



**Malaysian Higher
Education
Landscape**

2



**Policies &
Redesigning
Higher
Education**

3

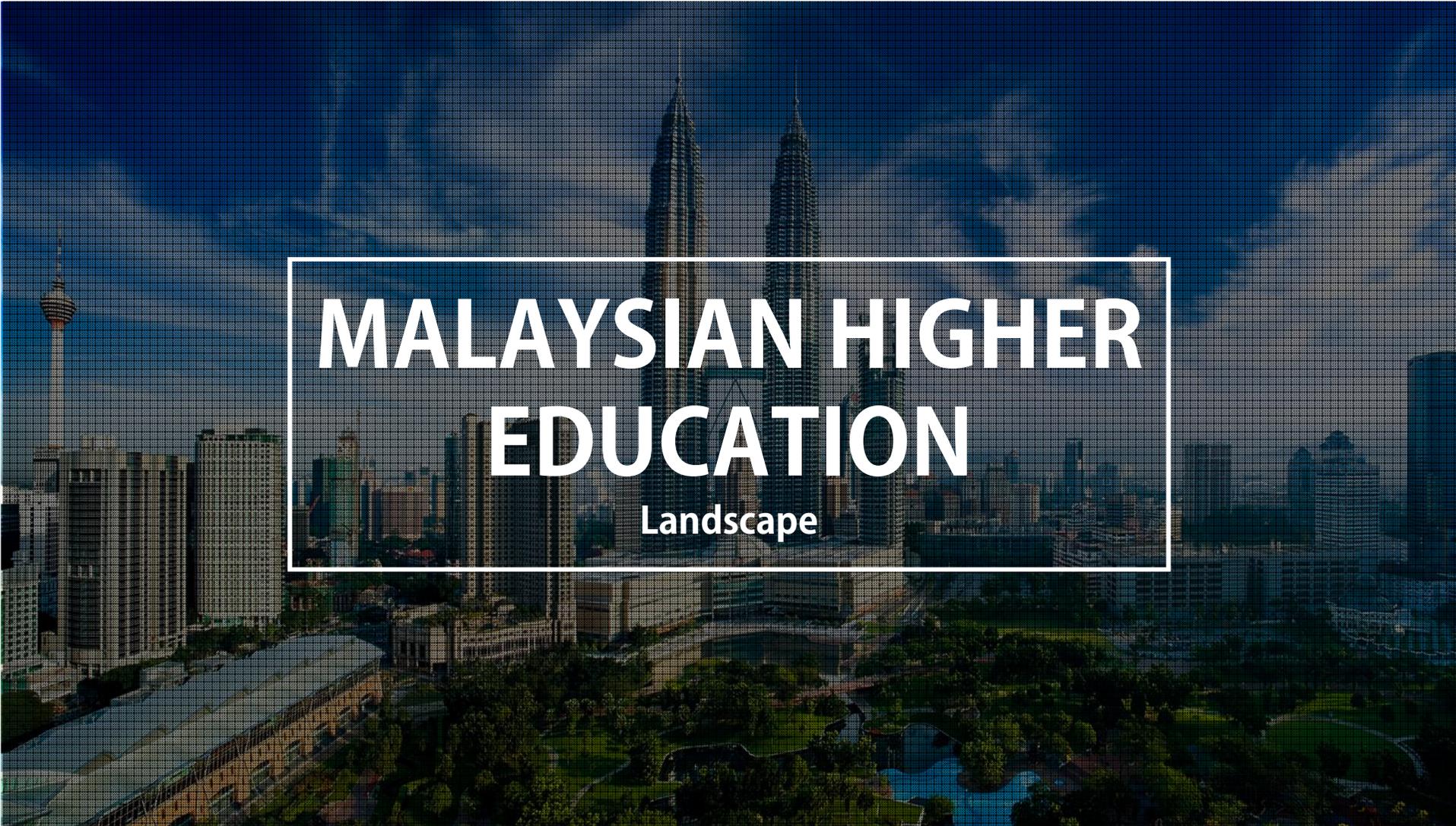


**Higher Education
4.0 Framework**

4



Conclusion

An aerial photograph of a cityscape, likely Kuala Lumpur, Malaysia. The Petronas Twin Towers are the central focus, flanked by other skyscrapers. To the left, the Kuala Lumpur Tower is visible. The foreground shows a mix of greenery, a large stadium-like structure, and various buildings. The sky is blue with some clouds. The entire image has a halftone or dot-matrix texture.

MALAYSIAN HIGHER EDUCATION

Landscape

HE Landscape

20 PUBLIC IHLs **480 Private IHLs**
 5 Research Universities 53 Universities
 11 Comprehensive Universities 37 University Colleges
 4 MTUN (TVET) 10 Branch Campuses
 380 Colleges

36 Polytechnics **95 Community Colleges**



INTERNATIONALISATIO



International Branch Campuses and Collaborations. Towards becoming an international higher education hub



**1.253
million
STUDENTS**

**170,000+
INTERNATIONAL
STUDENTS**
(as at 2017)

**150+
NATIONS**



ACHIEVEMENTS & SUCCESS STORIES





U21 RANKING

OF
NATIONAL HIGHER EDUCATION SYSTEMS

36(2012) → 25 (2017)

CONTINUOUS IMPROVEMENT

11 PLACES

WITHIN 6 YEARS

25
2017

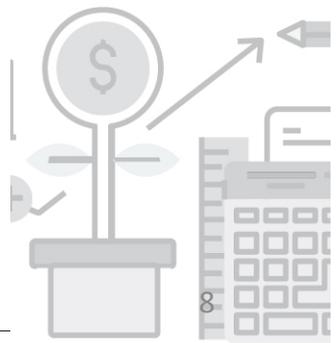
27
2016

28
2015

28
2014

27
2013

36
2012





BREAKING INTO THE TOP 100

within 2 years



University of Malaya global ranking....



Congratulations!



**UNIVERSITY
OF MALAYA**



**BEST
GLOBAL
UNIVERSITIES**
FOR ENGINEERING

"University of Malaya (UM) has been placed at the impressive 10th position among global universities in Engineering."
#SoaringUpwards



BEST UNIVERSITIES IN ASEAN

5 out of 8
Malaysia Research Universities
(3,4,5,7 & 8)

- 1  NANYANG TECHNOLOGICAL UNIVERSITY
- 2  NATIONAL UNIVERSITY OF SINGAPORE (NUS)
- 3  UNIVERSITI MALAYA 
- 4  UNIVERSITI PUTRA MALAYSIA 
- 5  UNIVERSITI KEBANGSAAN MALAYSIA 
- 6  CHULALONGKORN UNIVERSITY
- 7  UNIVERSITI TEKNOLOGI MALAYSIA 
- 8  UNIVERSITI SAINS MALAYSIA 



A.

**TOP
1%
IN
THE
WORLD**

MALAYSIAN UNIVERSITIES

Our Research Universities Are

Top 1% in the world

(out of 26,000 universities worldwide)



R.



U21 RANKING

CONTINUOUS IMPROVEMENT

11 PLACES
WITHIN 6 YEARS
36 (2012) → 25 (2017)

Year	Ranking
2012	36
2013	28
2014	28
2015	27
2016	27
2017	25

U.

UNIVERSITY OF MALAYA
U21 RANKING OF NATIONAL HIGHER EDUCATION SYSTEMS 2017

UNIVERSITY OF MALAYA

BREAKING INTO THE TOP 100

WITHIN 2 YEARS

Year	Ranking
2013	167
2014	151
2015	146
2016	135
2017	114

M.

UNIVERSITY OF MALAYA
QS WORLD UNIVERSITY RANKINGS 2017/2018

BEST UNIVERSITIES IN ASEAN

5 out of 8
Malaysia Research Universities
(3, 4, 5, 7 & 8)

1	NANYANG TECHNOLOGICAL UNIVERSITY
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A.

UNIVERSITY OF MALAYA
QS WORLD UNIVERSITY RANKINGS 2017/2018

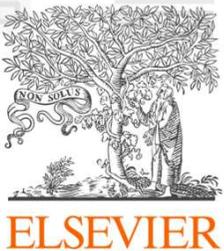
TOP 1% IN THE WORLD

MALAYSIAN UNIVERSITIES
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(out of 26,000 universities worldwide)

R.

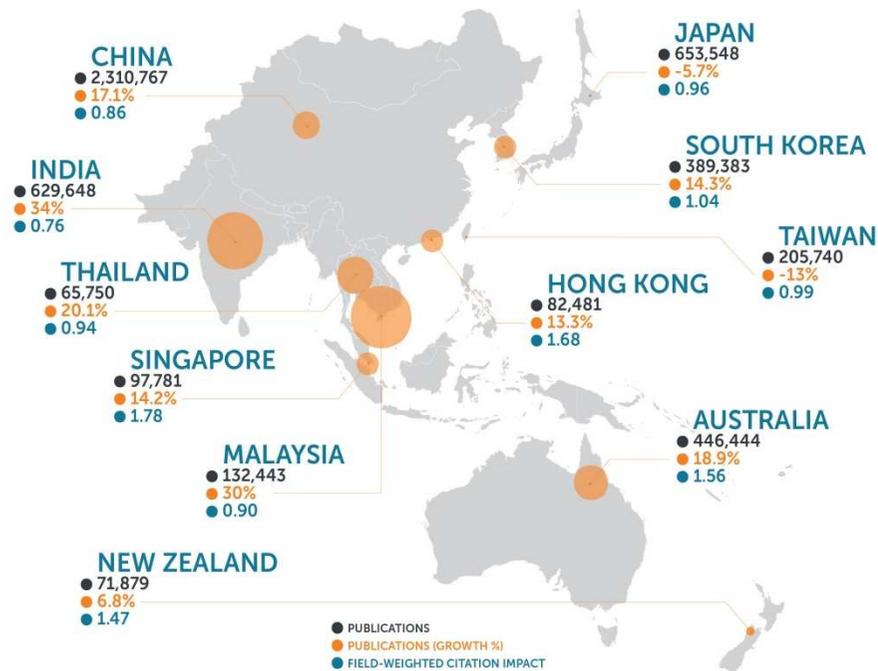
UNIVERSITY OF MALAYA
QS WORLD UNIVERSITY RANKINGS 2017/2018





ELSEVIER

MALAYSIA
Grew By
7.2%
Annually
From 2012-2016





THE WORLD'S MOST INFLUENTIAL SCIENTIFIC MINDS 2017

Ranking in the top 1% by citations for field and publication year in Web of Science, Highly Cited Researchers are leading the way in solving the world's biggest challenges

 Prof. Dr. Abdul Latif Ahmad Chemical Engineering USM APEX	 Prof. Dato' Ir. Dr. Wan Ramli Engineering Universiti Kebangsaan Malaysia	 Prof. Dr. Basim H. Hameed Chemical Engineering USM APEX	 Prof. Dr. Siti Kartom Kamarudin Engineering Universiti Kebangsaan Malaysia	 Prof. Ir. Dr. Majidul Hazi Hassan Engineering UNIVERSITY OF MALAYA
 Prof. Dr. Alias Abdul Karim Agricultural Sciences USM APEX	 Prof. Dr. Teuku M Mahlia Engineering UNIVERSITY TEKNOLOGI MALAYSIA	 Associate Prof. Dr. Md. Abdul Kalam Engineering UNIVERSITY OF MALAYA	 Prof. Dr. Besarjeet Sanyal Science UPM	 Prof. Dr. Saikur Rahman Engineering SUNWAY UNIVERSITY





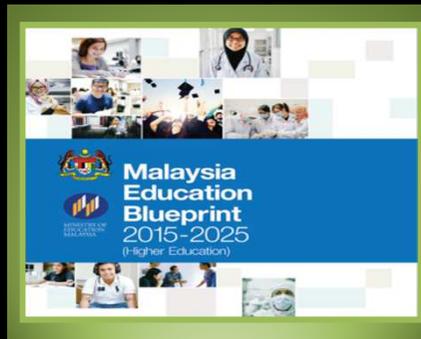
**POLICIES & INITIATIVES:
REDESIGNING HIGHER
EDUCATION**

2007 → 2015 → 2017 → 2018



National Higher Education Strategic Plan Beyond 2020

□ 7 Thrusts



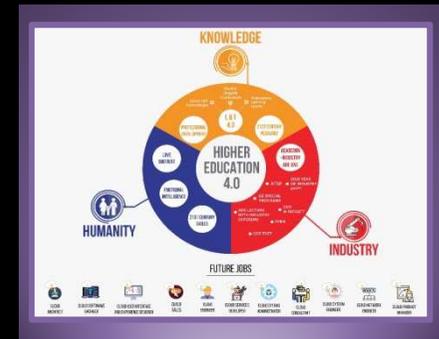
Malaysia Education Blueprint 2015-2020 (Higher Education)

□ 10 Shifts



Redesigning Higher Education

□ 7 Initiatives



Higher Education 4.0

□ 3 Elements

Malaysia Education Blueprint 2015-2025 (Higher Education)

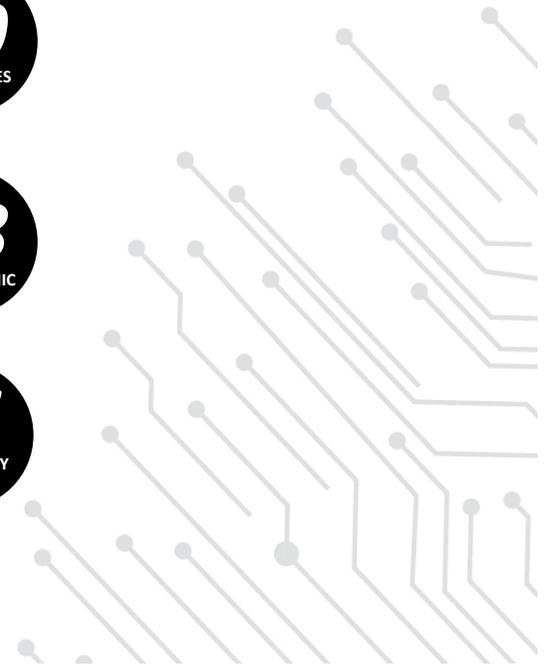
MINISTRY OF EDUCATION MALAYSIA





iCGPA

Integrated Cumulative Grade Point Average or iCGPA.





- ✓ 2 Years in University, 2 Years in industry
- ✓ Intensify industry exposure to create workforce ready graduates.

2017/18 ACADEMIC SESSION: 7 UNIVERSITIES 22 PROGRAMMES

Universities:



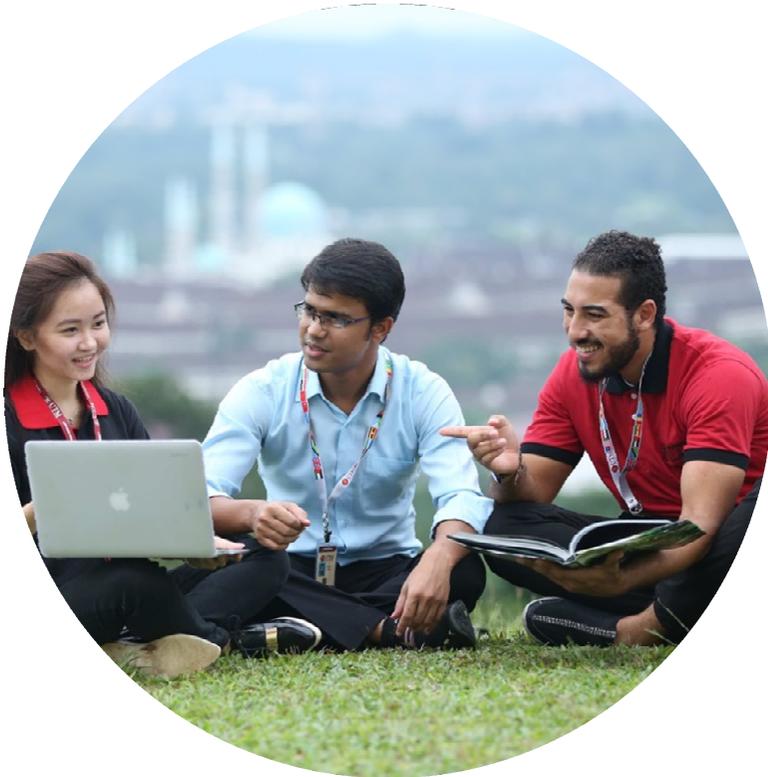
Industry Partners:



CEO @ FACULTY PROGRAMME



- 72 CEOs
- 1500 hours
- 200 events
- 92000 students & lecturers benefitted



MALAYSIA
MeOOC

Massive Open Online Courses

254
MOOCs

427,300
Students in Malaysia

76,000
Enrolments from overseas in
Malaysia MOOC
(UA, IPTS and Polytechnics)
From over 170 Countries





***Accreditation of Prior Experiential Learning
(Enculturing Lifelong Learning)***



“

HIGHER EDUCATION 4.0



In 2017, the Ministry of Higher Education Malaysia embarked on a year-long effort to better understand 4IR and its impact on higher education.



MINISTER OF HIGHER EDUCATION MANDATE 2018

HIGHER EDUCATION 4.0

KNOWLEDGE

INDUSTRY

HUMANITY

Challenges

Awareness
and
Readiness



LEARNING & TEACHING 4.0



REDESIGNING LEARNING SPACES



FLUID & ORGANIC CURRICULUM

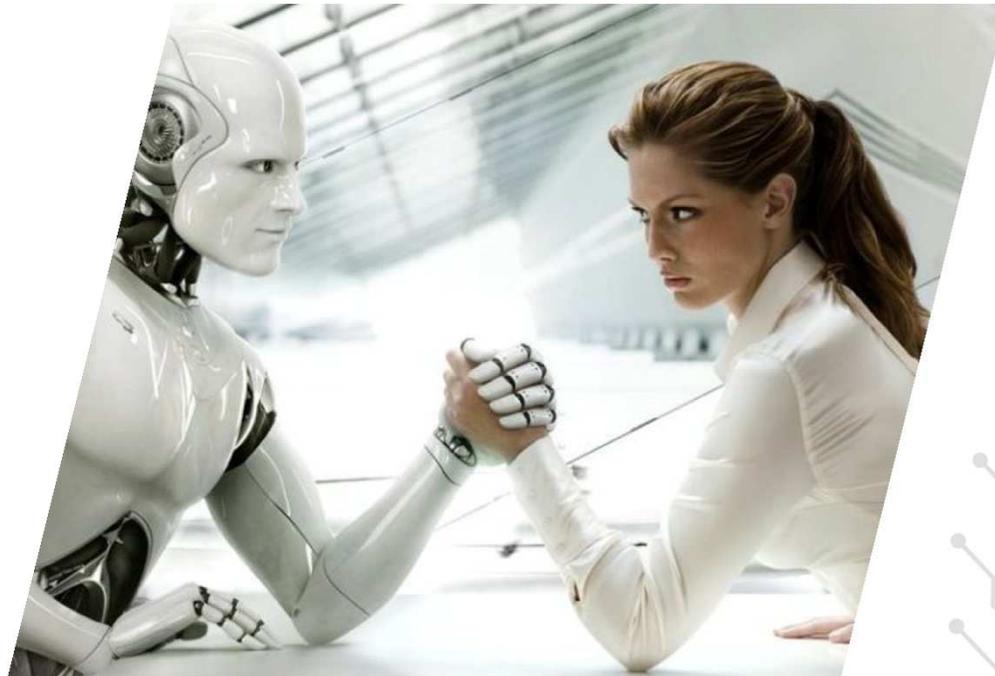


21ST CENTURY PEDAGOGY



LATEST L&T TECHNOLOGIES

**AWARENESS &
READINESS**



**ADAPTIVE
SKILLS**

21st Century Pedagogy



HEUTAGOGY
(Self determined learning)



PARAGOGY
(peer-oriented learning)

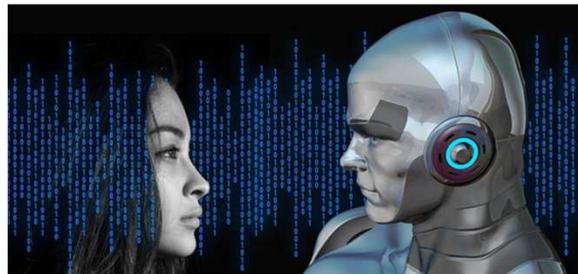


CYBERGOGY
(virtual based learning)

**REFLECTIVE
SKILLS**



Learning Analytics



Artificial intelligence



Robotics

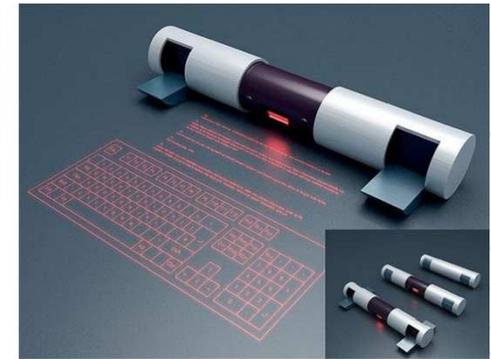
**FLUID &
ORGANIC
CURRICULUM**



Cryptocurrencies



Foldable displays



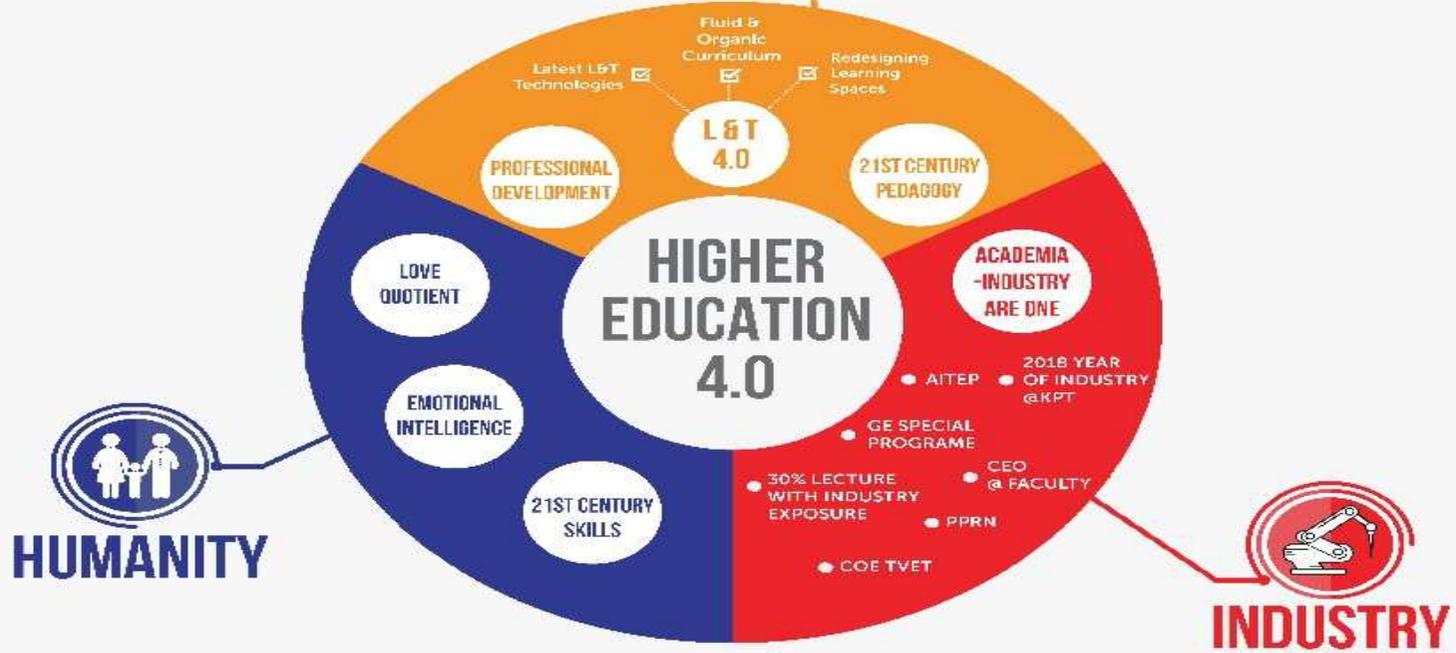
Tactile Projection

TVET 4.0 FRAMEWORK

INDUSTRY &
ACADEMIA ARE
ONE



KNOWLEDGE



An aerial photograph of a large, modern architectural complex, likely a government or institutional building, featuring a prominent central dome and extensive green landscaping. The building is situated on a waterfront area with a large body of water visible in the background. The word "CONCLUSION" is prominently displayed in the center of the image, enclosed in a white rectangular box.

CONCLUSION



HUMANITY

**Future
Jobs**

**Emotional
Intelligence
& Love Quotient**



HUMANITY

Humanising the 4IR



*To nurture future leaders with a sense of **love, care and compassion** for others*

**“ULTIMATELY TECHNOLOGY IS A TOOL.
PEOPLE COME FIRST.
ITS PURPOSE SHOULD BE CENTERED ON
HUMANITY AND PUBLIC INTEREST.
WHERE TOLERANCE, RESPECT,
CARE & COMPASSION COME INTO PLAY.
EVENTUALLY IT BOILS DOWN TO
CULTURE & VALUES.
WITH THE 4TH INDUSTRIAL
REVOLUTION USHERING A NEW
CULTURAL RENAISSANCE.
IT NEEDS A COLLECTIVE
WISDOM.”**

”

DATO' SERI IDRIS JUSOH, MINISTER OF HIGHER EDUCATION
at the opening of Malaysia Higher Education Forum 2017
23 November 2017 | Kuala Lumpur Convention Centre



For more information, visit:



news.moh.gov.my



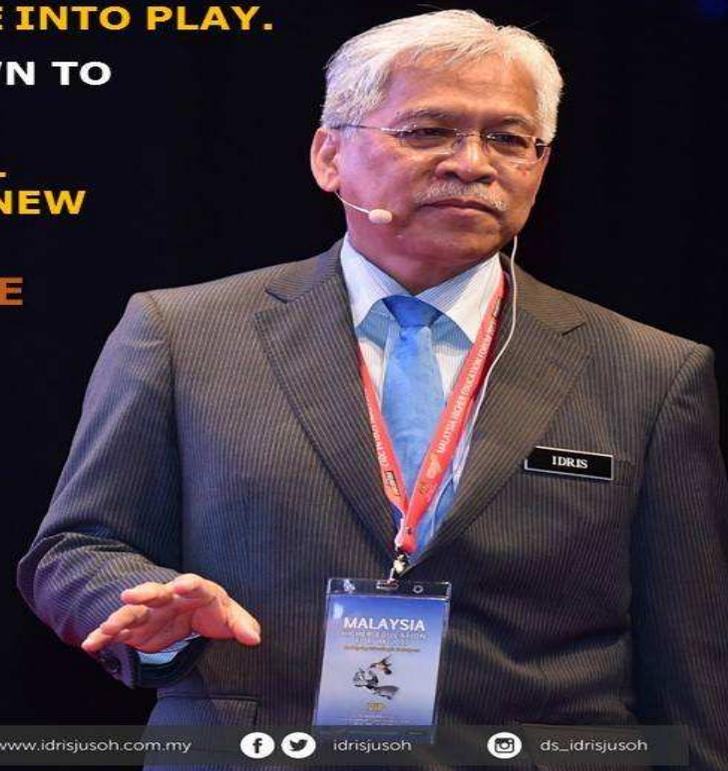
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[ds_idrisjusoh](https://www.instagram.com/ds_idrisjusoh)



Thank You... Soaring Upwards!



Ministry of Higher Education Malaysia

