UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ULANG TAHUN
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Menjuarai Teknologi,
Merealisasi Aspirasi

Majis PERUTUSAN NAIB CANSELOR 2020

14 Februari 2020 | Dewan Canselor, UTeM

MyUTeM
www.utem.edu.my

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Terima Kasih

kepada semua WARGA UTeM yang telah bersama-sama berusaha mencapai kejayaan demi kejayaan yang membanggakan UTeM pada tahun 2019

TERUSKAN USAHA CEMERLANG DI MASA HADAPAN

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GEMS FROM THE TURKISH POET

RUMI

1.What Is Poison?

Anything Which Is More Than Our Necessity Is Poison.
It May Be Power, Wealth, Hunger, Ego, Greed, Laziness,
Love, Ambition, Hate Or Anything.

2.What Is Fear?

Non Acceptance Of Uncertainty.
If We Accept That Uncertainty, It Becomes Adventure.

3.What Is Envy ?

Non Acceptance Of Good In Others,
If We Accept That Good, It Becomes Inspiration.

4.What Is Anger?

Non Acceptance Of Things Which Are Beyond Our Control.
If We Accept, It Becomes Tolerance.

5.What Is Hatred?

Non Acceptance Of Person As He Is.
If We Accept Person Unconditionally,
It Becomes Love.

OCTOBER 2017

SHIVOHAM

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AGENDA

1. Senario Global – Landskap Pendidikan Tinggi 2020
2. Intipati Amanat Dan Aspirasi Menteri Pendidikan Malaysia
3. Tema Perutusan 2020
4. Way Forward 2020
5. Harapan Dan Penutup

1
2
3
4
5

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The Landscape of HIGHER EDUCATION in 2020 and beyond

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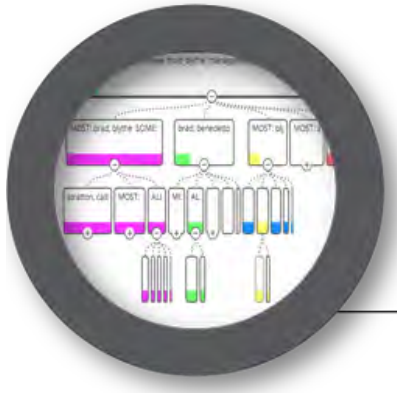

Overview

The Landscape of Higher Education in 2020 and beyond:

Two levels of change:

1. The disruptive nature of (technological) change
2. The large-scale changes in society

A new role for the university?

Source: Utrecht University, Netherlands

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THE DISRUPTIVE NATURE OF (TECHNOLOGICAL) CHANGE

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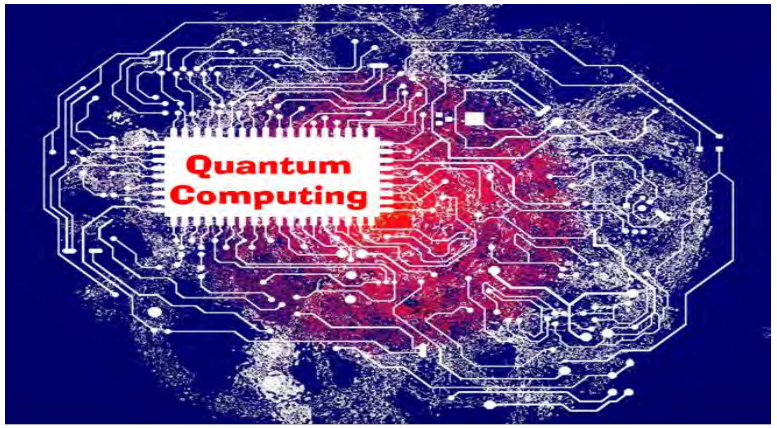
WHAT IS THE 4IR?



"A stage in the development of knowledge in which the lines between the physical, digital and biological spheres are being blurred"

(Schwab, 2016).

4IR backbone includes:

1)Artificial Intelligence

2)Cloud Computing

3)Big Data Analytics

4)Internet of Things

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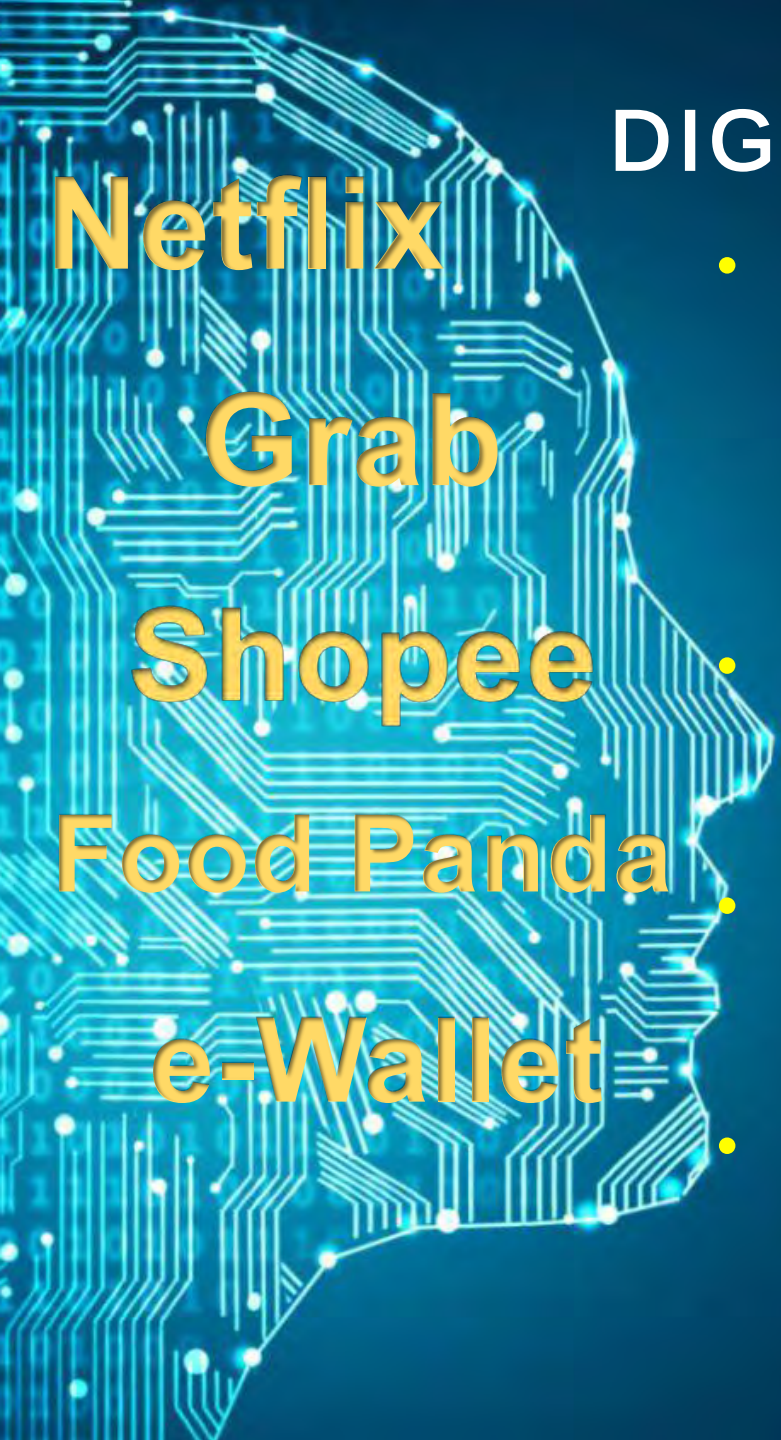

DIGITAL DISRUPTIONS

- **The change** that occurs when new digital technologies & business models affect the value proposition of existing goods & services
- **A transformation** that is caused by emerging digital technologies & business model
- **Impacts** the value of existing products & services offered in the industry
- **Disrupts** the current market and causes the need for re-evaluation

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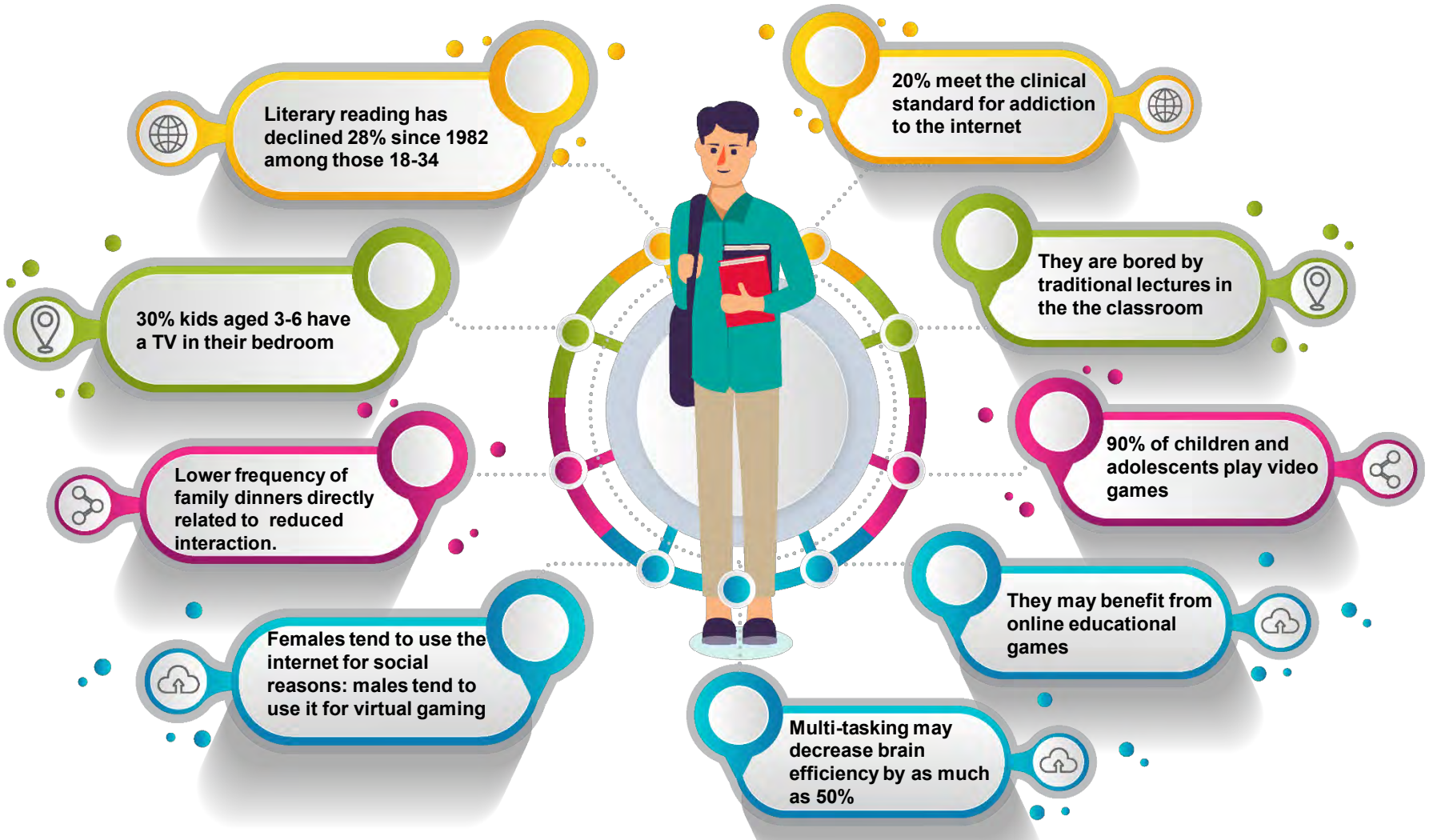
9 Facts about Digital Natives



Based on the research of Gary Small, MD & Gigi Vorgan and their book, *iBrain: Surviving the technological Alteration of the Modern Mind.*

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THE LARGE-SCALE CHANGES IN SOCIETY

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Because of rapid economic and social change, schools have to prepare students for jobs that have not yet been created, technologies that have not yet been invented and problems that we don't yet know will arise.

(Andreas Schleicher
OECD Education Directorate: 2011)

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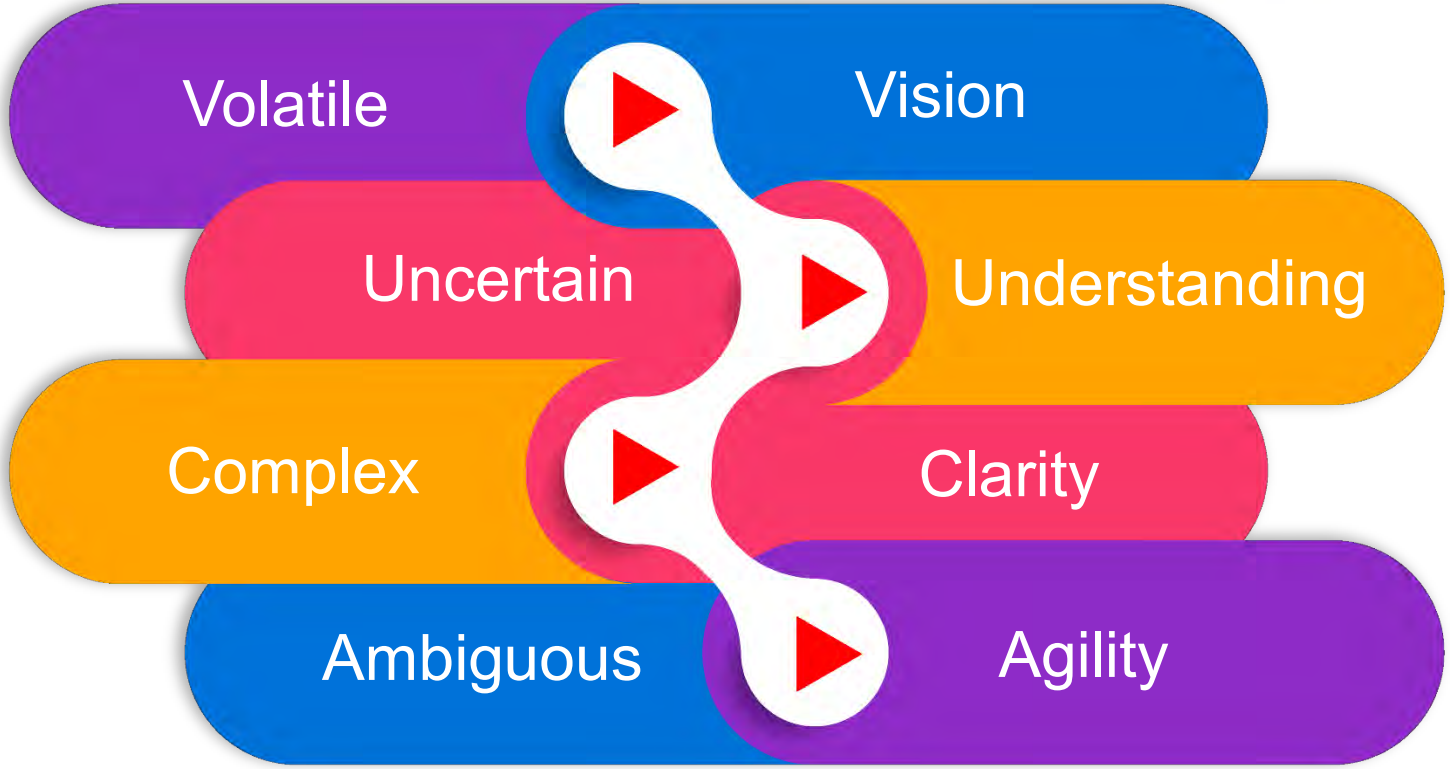
Volatility Uncertainty Complexity Ambiguity



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WORLD ECONOMIC FORUM

2022 SKILLS OUTLOOK

Growing

1. Analytical thinking and innovation
2. Active learning and learning strategies
3. Creativity, originality and initiative
4. Technology design and programming
5. Critical thinking and analysis
6. Complex problem-solving
7. Leadership and social influence
8. Emotional intelligence
9. Reasoning, problem-solving and ideation
10. Systems analysis and evaluation

Declining

1. Manual dexterity, endurance and precision
2. Memory, verbal, auditory and spatial abilities
3. Management of financial, material resources
4. Technology installation and maintenance
5. Reading, writing, math and active listening
6. Management of personnel
7. Quality control and safety awareness
8. Coordination and time management
9. Visual, auditory and speech abilities
10. Technology use, monitoring and control

Source: Future of Jobs Report 2018 : WEF

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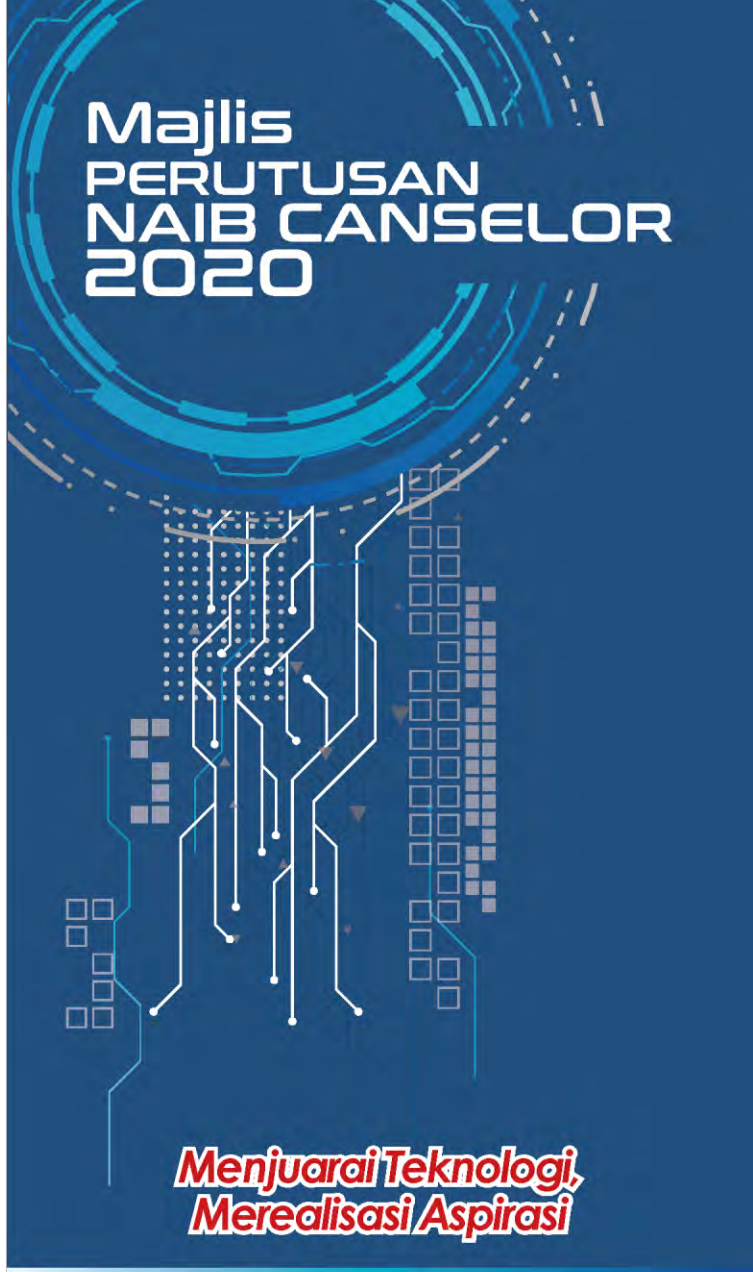

THE SKILLS COMPANIES NEED THE MOST IN 2020

TOP 5 SOFT SKILLS

1. Creativity
2. Persuasion
3. Collaboration
4. Adaptability
5. Emotional intelligence

TOP 10 HARD SKILLS

1. Blockchain
2. Cloud computing
3. Analytical reasoning
4. Artificial intelligence
5. UX design
6. Business analysis
7. Affiliate marketing
8. Sales
9. Scientific computing
10. Video production

(Source: Linkedin Learning)

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A NEW ROLE FOR THE UNIVERSITY?

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Are education systems capable of turning themselves upside down to meet tomorrow's challenges?

Source: After Dirk van Damme: The innovation imperative in education

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SCENARIO SETTING, ALTHOUGH NOT INTENDED TO PREDICT THE FUTURE, CAN SERVE AS A TOOL FOR THINKING AND BASIS FOR ACTION.

1 NO CHANGE –Brick & Mortar

2 MARGINAL CHANGE – Jukebox

3 ADAPTIVE CHANGE - Uberised

4 RADICAL CHANGE – Micro/Nano Certification

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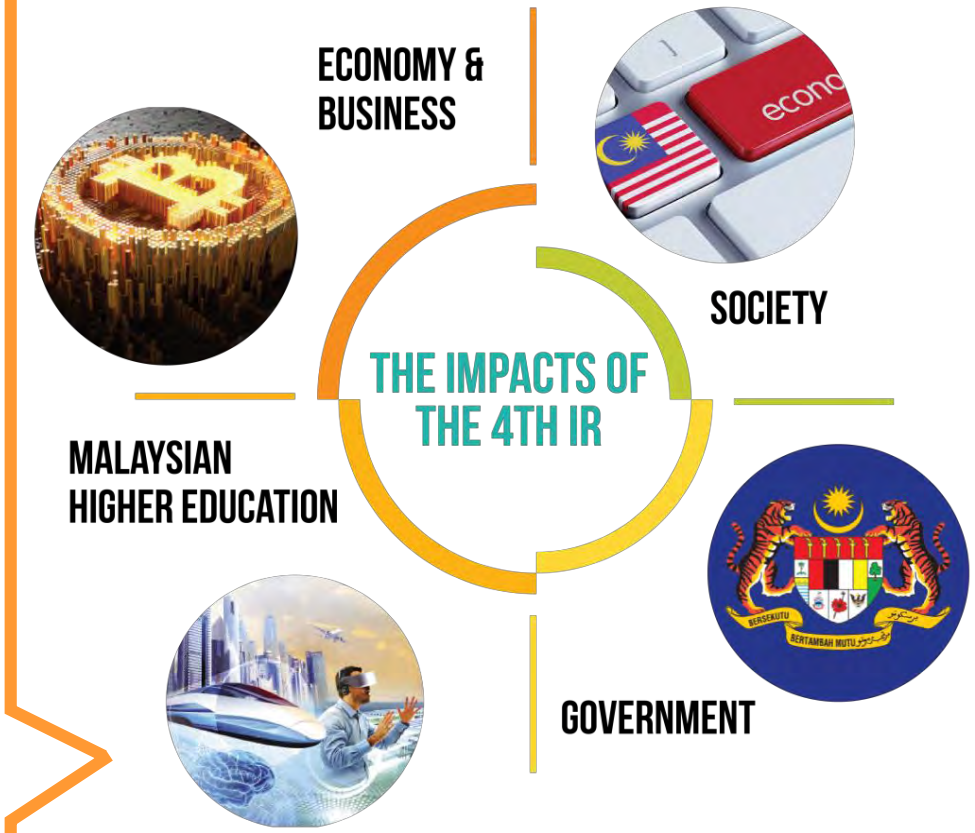
FUTURE HE ENVIRONMENT

- ✓ How will the lecturers teach? (method)
- ✓ How will the students learn?
- ✓ What will the lecturers teach (content)?
- ✓ How will the learning space look like?
- ✓ What are the roles of the lecturers?
- ✓ What are the roles of the students?
- ✓ What are the roles of support officers/staff
- ✓ What are the attributes of the students/lecturers/ support?



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Ultimately technology is a tool. People come first. Its purpose should be centered on humanity and public interest.

Where tolerance, respect, care and compassion come into play. Eventually it boils down to culture and values.

With 4IR ushering into a new cultural renaissance. It needs a collective wisdom.

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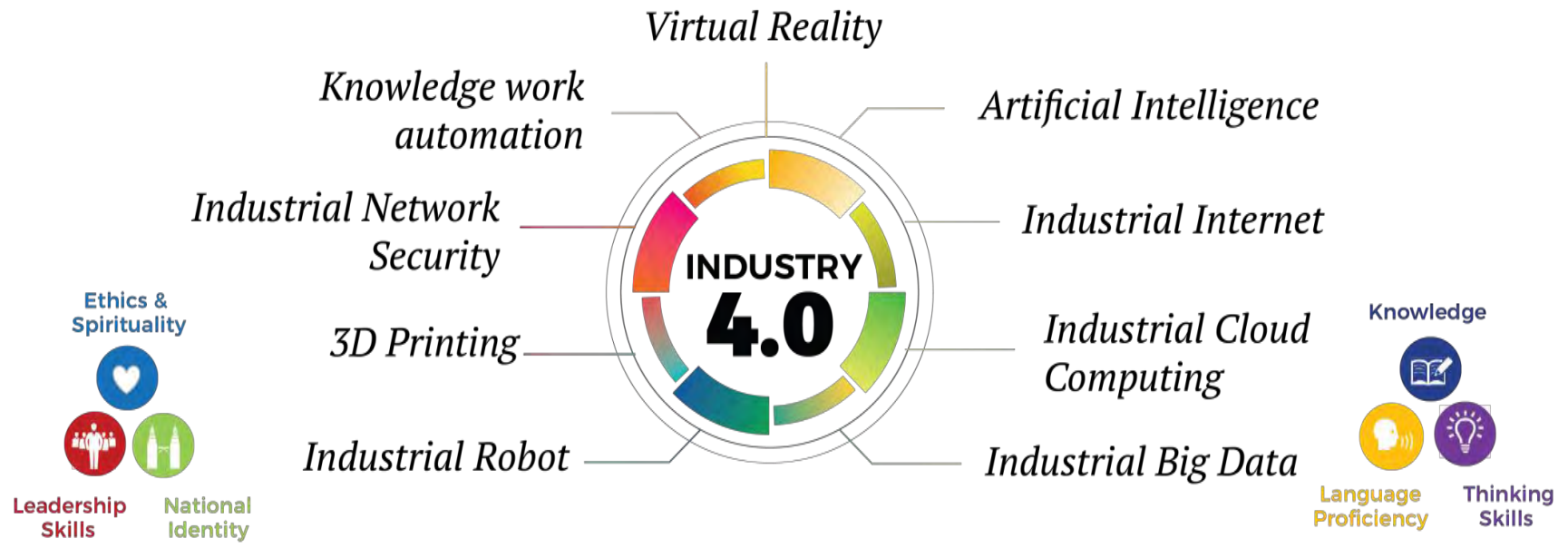

AKHLAK
(Ethics and Morality)

BALANCE

ILMU
(knowledge and Skills)

FUTURE PROOF TALENT

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KEMENTERIAN PENDIDIKAN MALAYSIA

INTIPATI AMANAT MENTERI PENDIDIKAN MALAYSIA 2020

YAB Tun Dr. Mahathir Mohamed
Perdana Menteri Malaysia
Merangkap Pemangku Menteri Pendidikan Malaysia

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MAJLIS AMANAT & ASPIRASI
YAB PERDANA MENTERI MERANGKAP PEMANGKU MENTERI PENDIDIKAN
6 FEBRUARI 2020 | KHAMIS

01
BUDAYA, NILAI HIDUP

- **Kesanggupan berusaha bersungguh-sungguh** untuk kejar kejayaan
- Amanah, menolak sesuatu yang dilarang, gigih, tekun dan berdisiplin.

02
PENDIDIKAN SAINS, TEKNOLOGI, KEJURUTERAAN & MATEMATIK (STEM)

- STEM diberi penekanan – bagi melahirkan masyarakat yang mempunyai **literasi STEM** serta berkemahiran tinggi.

03
PEMBENTUKAN NILAI MODAL INSAN

- Pelaksanaan aktiviti **Service Learning Malaysia – University For Society @ SULAM** – kaedah pembelajaran melalui penyelesaian permasalahan komuniti.

04
PENGUKUHAN PENDIDIKAN BAHASA INGGERIS

Pelancaran
English Language Education Reform in Malaysia : The Roadmap 2015 - 2025

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05

PENDIDIKAN & KEMAKMURAN BERSAMA

•**Strategi Trasformasi Modal Insan** – antara teras dalam Wawasan Kemakmuran Bersama 2030.

•**Fokus transformasi** – penyediaan halatuju sumber tenaga yang lebih produktif, efektif, kemahiran, berteknologi dan bernilai tinggi termasuk dalam industri ekonomi baharu.

06

KECEMERLANGAN INSTITUSI & KEUNGGULAN GLOBAL

•Pengukuhan kolaborasi dengan institusi yang disenaraikan sebagai **Top 100 di dunia oleh QS World University Rankings**.
•Peningkatan hubungan **tripartite** – menawarkan penyelesaian kepada masyarakat.
•Menggalakkan penyelidikan yang dipacu permintaan atau **demand driven**
•Pelaksanaan **Public Private Research Network 2.0 (PPRN2.0) dan Prototype Research Grant scheme (PRGS 2.0)**

07

PENDIDIKAN & LATIHAN TEKNIKAL DAN VOKASIONAL (TVET)

•Menyumbang ke arah pembentukan **negara membangun yang makmur dan inklusif.**
•Menyediakan tenaga kerja **berkemahiran tinggi.**
•Penawaran program bersifat **industry driven.**
•**Pelaksanaan Peta Strategi Pemerkasaan TVET** – menghasilkan graduan TVET yang seimbang, holistik dan berciri keusahawanan – pekerja berkemahiran tinggi.
•**Wawasan Industry-led TVET** – kurangkan permasalahan skill *mismatch*.

08

PEMERKASAAN INSTITUSI PENDIDIKAN TINGGI

•**Memansuhkan Akta Universiti dan Kolej Universiti 1971 (AUKU)** dan digantikan dengan undang-undang yang lebih baik serta komprehensif.

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TEMA PERUTUSAN NC 2020

"MENJUARAI TEKNOLOGI, MEREALISASI ASPIRASI"

Selaras dengan *tagline* Sentiasa Merintis, Sentiasa Menerajui, UTeM berhasrat untuk terus **mengungguli bidang Sains, Teknologi dan Kejuruteraan** bagi mencapai aspirasi UTeM menghasilkan **bakat berkemahiran tinggi** yang berupaya **memperkasa invensi dan inovasi** bagi menjadi Universiti Teknikal yang kreatif dan inovatif terkemuka di dunia.

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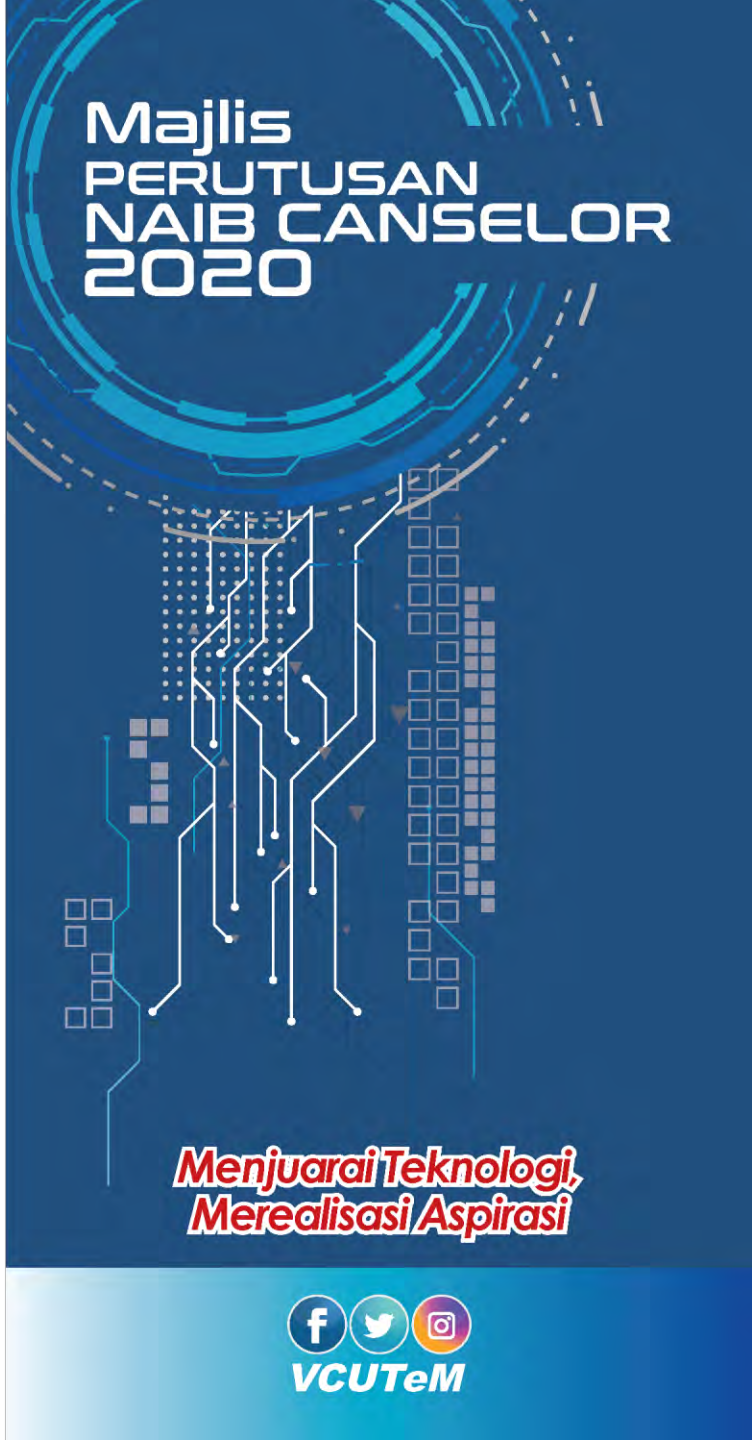

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CONCEPT

T.U.N.A.I

TECHNOLOGY
@**UN**IVERSITY
ADVANCING
INDUSTRY AND SOCIETY

A University that produces highly skilled technologists and enhances inventions, thus impacting industries and society.

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APPROACH

TECHNOLOGY SCHOLAR

Cambridge Dictionary

Scholar - A person with great knowledge, usually of a particular subject.

Technology – Utilization of knowledge and organization of that knowledge for the achievement of practical purposes

Leveraging technology to solve complex problems – of the industries and society.
Disseminating knowledge gained through teaching & learning, publications & IP, services and consultation.

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Retreat Canselor 2019

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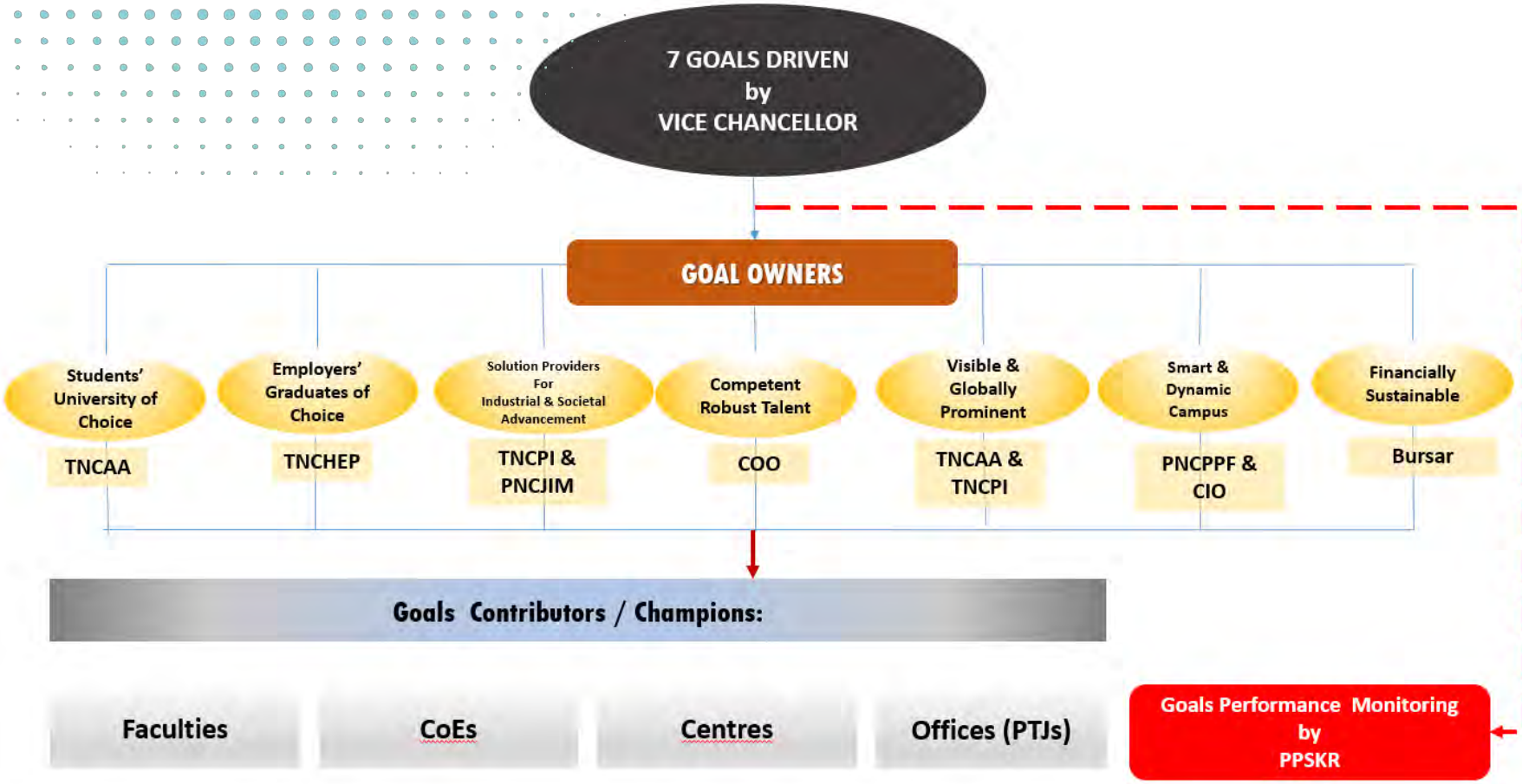
UTeM Strategic Planning Framework 2021 - 2025



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PROGRAM AKADEMIK – MENINGKATKAN PROGRAM DIPACU INDUSTRI

HIGHER TVET

PROGRAM TEKNOLOGI	• Sarjana Muda Teknologi Automotif • Sarjana Muda Teknologi Penyejukan dan Penyamanan Udara • Sarjana Muda Teknologi Automasi Elektronik Industri
PROGRAM KERJASAMA ZTE	• Sarjana Muda Teknologi (IOT Operation and Maintenance) • Sarjana Muda Teknologi (5G Mobile Communication) • Sarjana Muda Teknologi (Cloud Computing)
PROGRAM KEJ. TEKNOLOGI (3U1i)	• Sarjana Muda Sains Komputer (Pembangunan Perisian) • Sarjana Muda Teknologi Kejuruteraan Mekanikal (Sistem Penyejukan dan Penyamanan Udara) • Sarjana Muda Teknousahawanan

PROGRAM PASCA

PEMERKASAAN PROGRAM PASCA SISWAZAH	**Program Doktor Kejuruteraan, DIT dan DBA.**

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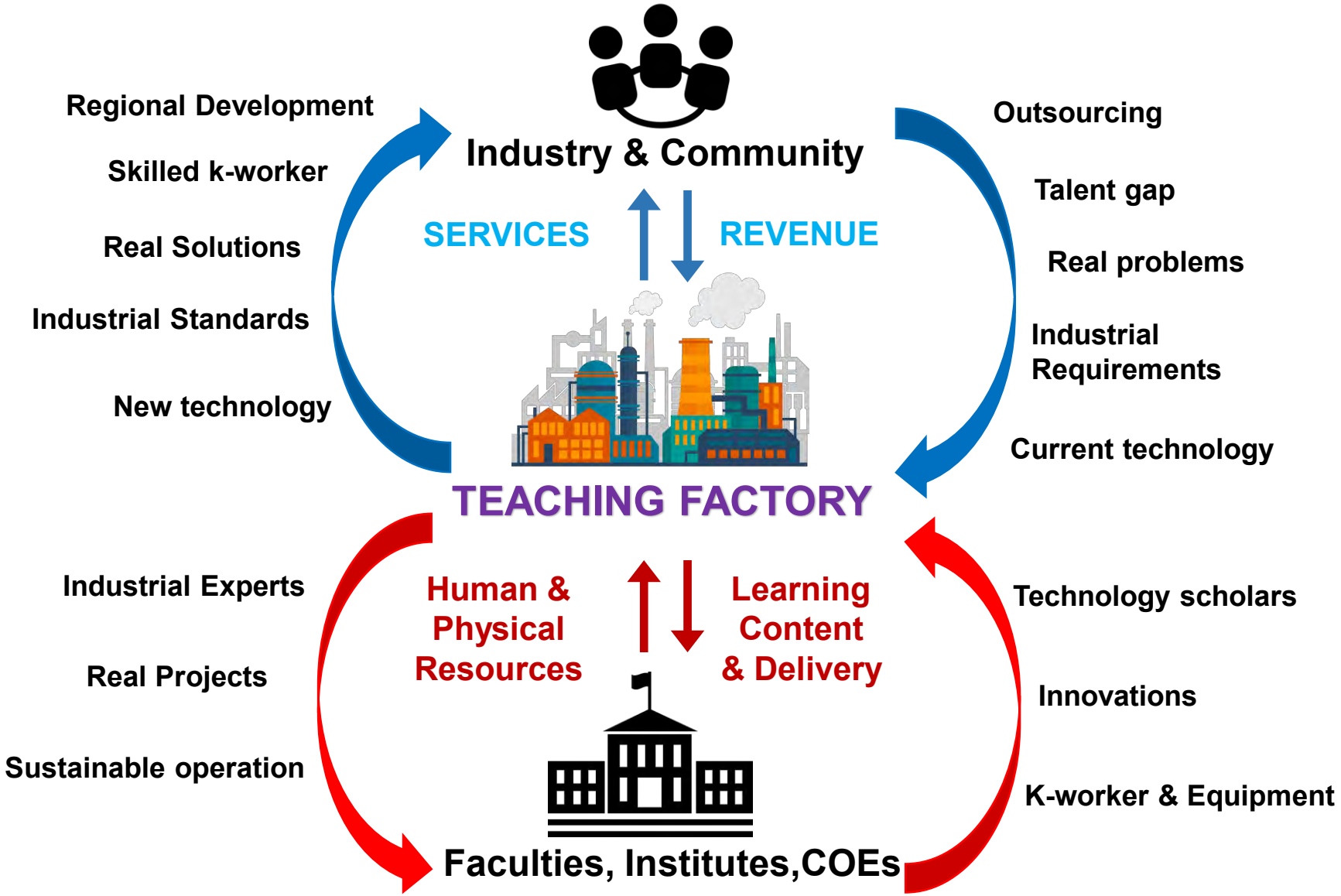
UTeM TEACHING FACTORY FRAMEWORK



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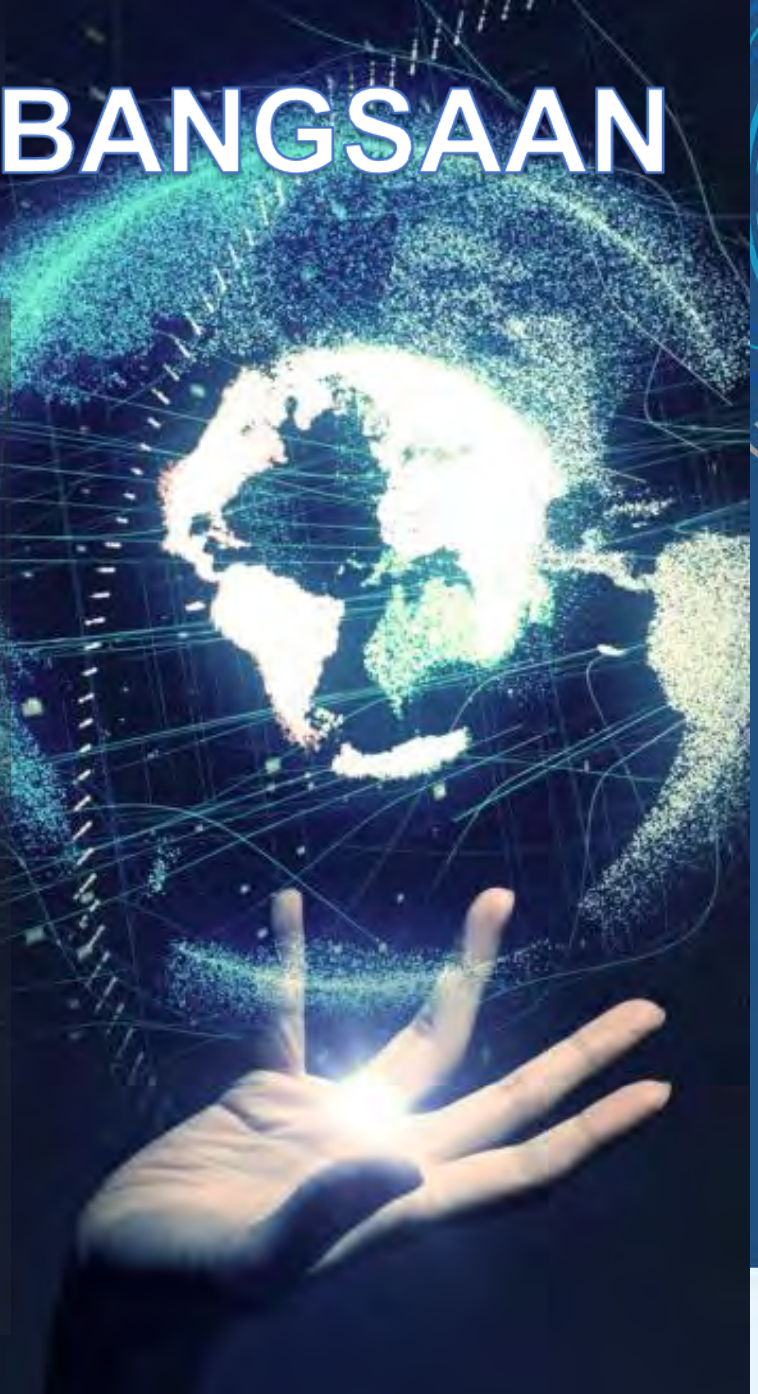
#PENGANTARABANGSAAN



- UTeM akan mempergiatkan promosi berimpak tinggi untuk **Program *Higher TVET*** *dan Program Industri 4.0 (IR 4.0).*
- Menjadikan *UTeM* - The *Most Followed And Referred University Through* ***Digital Marketing***.
- Menggunakan **jaringan alumni** pelajar dalaman dan antarabangsa dalam mempromosi program akademik dan graduan UTeM.
- Meningkatkan Promosi Antarabangsa khusus kepada negara Indonesia, Bangladesh, China dan wilayah Timur Tengah

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SOLUTION PROVIDERS FOR INDUSTRIAL & SOCIETAL ADVANCEMENT

01

Enhancing Industry-demand driven based projects in manufacturing and computing industry

- Embed industrial-demand products and services in research grants applications.

02

Holistic and highly competent technology scholars

- Promoting academic staff to be involved in enhancing inventions and innovations.

03

Securing high impact projects

- Securing high impact projects through collaborative efforts between industry-university such as matching grants, contract projects, consultations and innovative solutions.

04

Strengthening strategic linkages between UTeM-Industry-Community

- Strengthening the linkages between university-industry-community by having a one stop centre, establishing smart partnership, providing platform for industry in university and increasing number of certified labs and number of R&D&I products.

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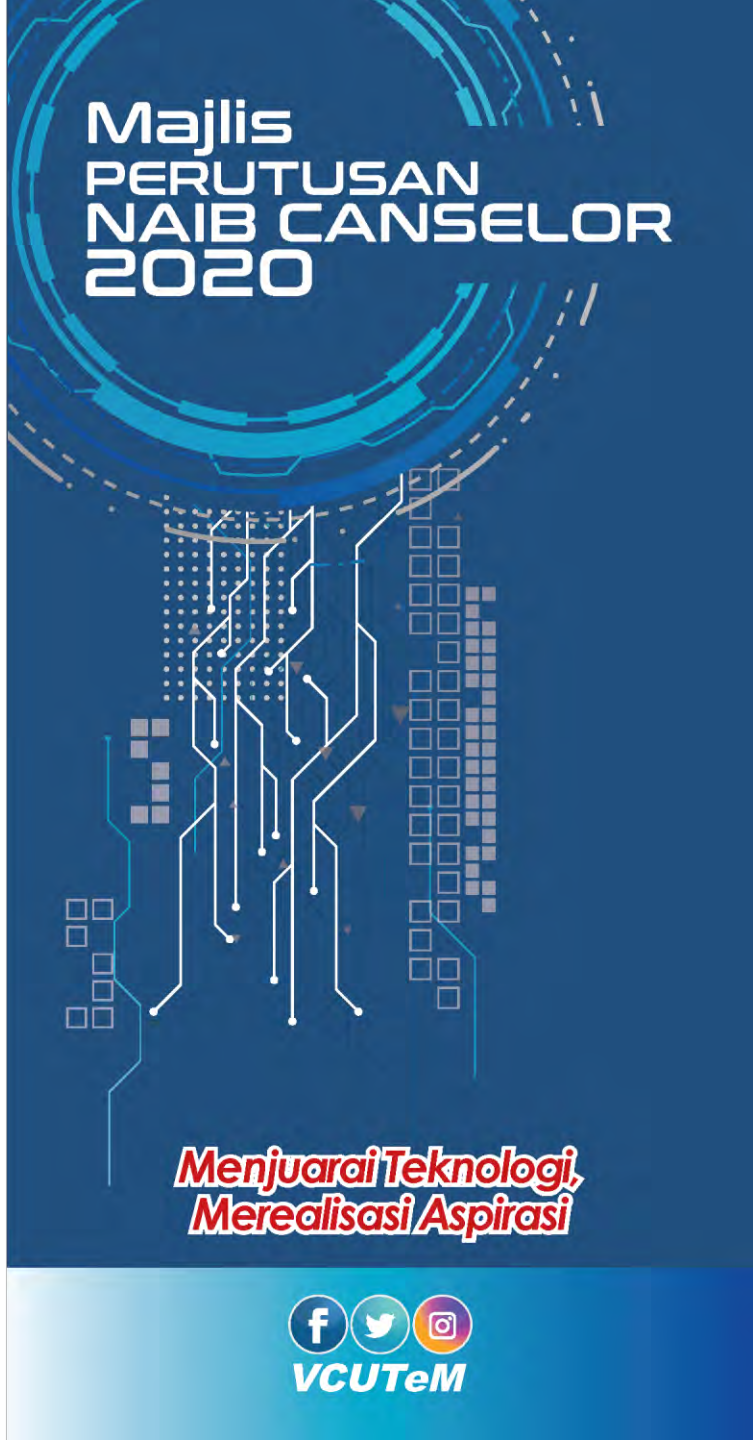

GLOBALLY VISIBLE & PROMINENT

01

Strategizing for QS Asia Ranking

- Number of papers in SCOPUS indexed journals
- Number of paper with globally recognized and international / industries affiliations
- Number of citations in SCOPUS database

02

Strategizing for QS Asia Ranking Subjects in E&T

03

Industry preferred solution provider focusing on advanced manufacturing & computing technology.

- CEO Round Table / Luncheon Talk
- MoU/MoA with globally recognized institutions/industries

04

Strengthening strategic linkages between university and reputable entities (society & industry).

05

Enhance Strategic and dynamic technology scholars through affiliation with renowned global researchers from universities and industries.

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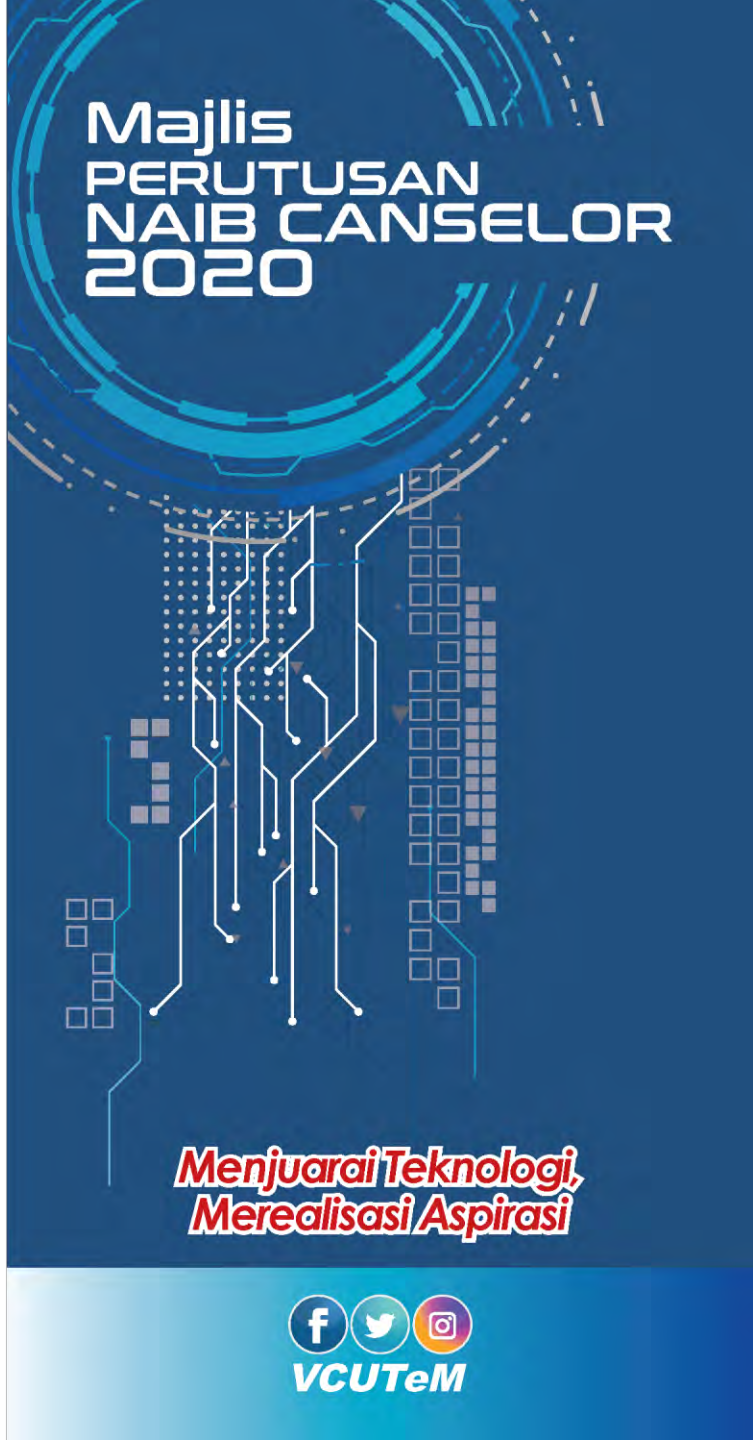
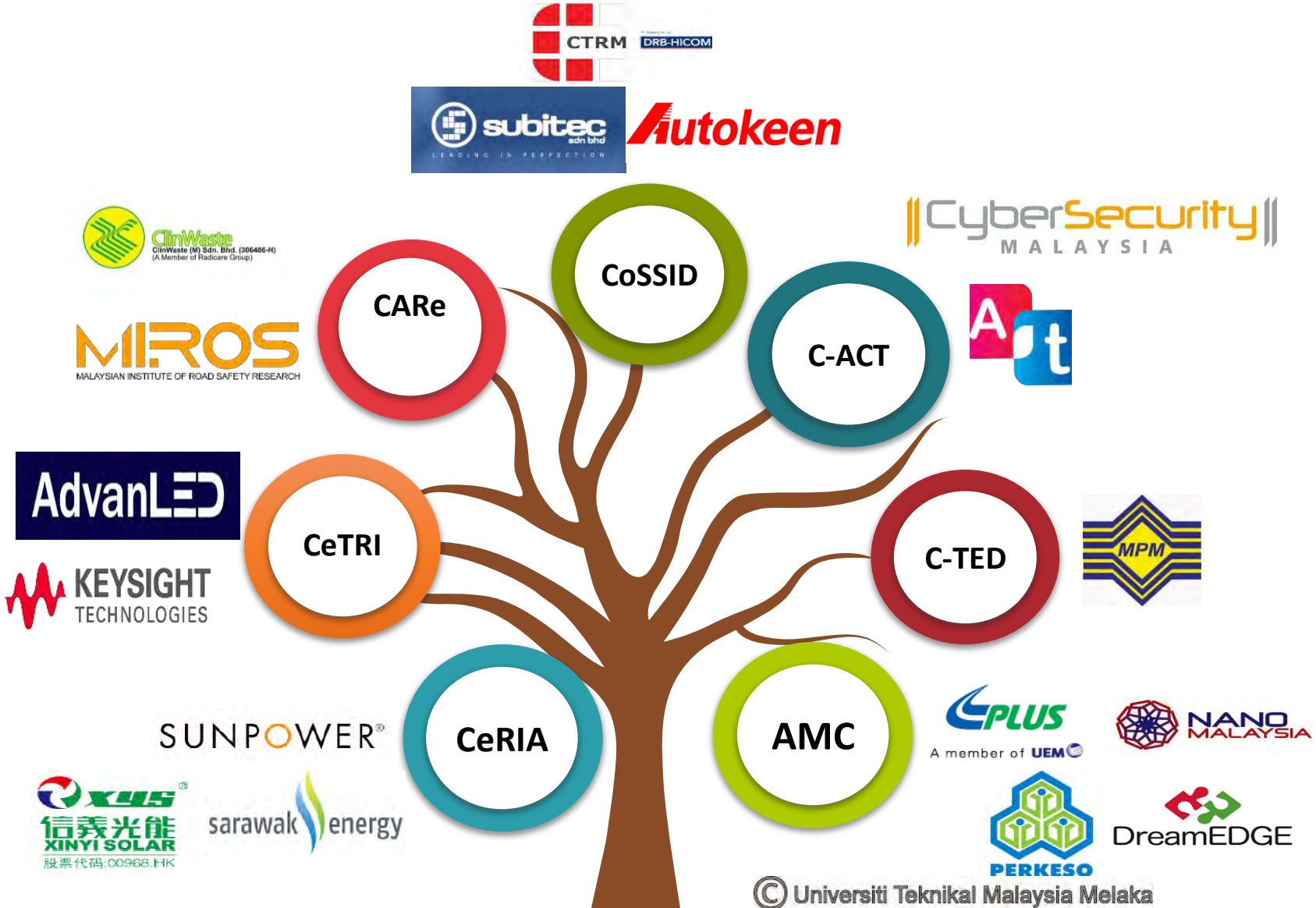


STRATEGIC WAYS TO ENHANCE INDUSTRY COLLOBORATIONS



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MyRA®

MALAYSIA RESEARCH ASSESSMENT

2019

2018

57.19%

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#TUAHUTeM

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HEP
HAL EHWAL PELAJAR
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PEJABAT TIMBALAN NAIB CANSELOR

HAL EHWAL Pelajar

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

MyHEPUTeM #TuahUTeM

FAST FACTS HEP

2019

678	PROGRAM PELAJAR HEP, FAKULTI, PTJ
91,158	PESERTA PROGRAM
4,988	SUKARELAWAN
85	PENYERTAAN KEJOHANAN SUKAN
7,695	PENERIMA BANTUAN KEWANGAN
1,360	PENERIMA ZAKAT & ENDOWMEN
20,711	PESAKIT LUAR DI PKU
93	KHIDMAT KAUNSELING

Kemaskini data: Disember, 2019

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TUAH UTeM

TANGKAS • UNGGUL • ADAPTIF • HOLISTIK

Pemerkasaan TUAH UTeM

Program transformasi TUAH-Go!

Pembentukan modul TUAH UTeM bagi menonjolkan pelajar UTeM yang profesional, beretika, ihsan dan daya juang yang tinggi.

Program dan aktiviti selaras dengan aspirasi KPM, Dasar Belia Negara, SULAM, 8 Dimensi MyHEP, ReHaL dan Sustainable Development Goals (SDG)

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PENJANAAN PENDAPATAN	• Penjualan nombor pendaftaran kenderaan UTeM • Promosi endowmen, wakaf, dan Yayasan UTeM
KEBERKESANAN KOS	• Pemasangan panel solar • Paperless
SISTEM KEWANGAN	• Financial Dashboard • Sistem Perolehan
PENGURUSAN KEWANGAN	• Siri jelajah jerayawara Peraturan Kewangan dan Perakaunan Universiti
PERKONGSIAN PINTAR	• Meningkatkan penyumbang dana, tajaan, zakat korporat, sumbangan hadiah dan lain-lain di kalangan industri dan korporat.

#FINANCIALLYSUSTAINABLE

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INISIATIF PENJIMATAN

17 PROGRAM PENJIMATAN

1. Elektrik
2. Air
3. Telefon
4. Mesin fotokopi
5. Alat tulis
6. Kenderaan dan bahan api
7. Pembersihan & landskap
8. Insuran Berkelompok
9. Konvokesyen
10. Perubatan
11. OT
12. Tiket Kapal Terbang
13. Majlis/Keraian Universiti
14. Emolumen
15. Percetakan berpusat
16. Paperless
17. Promosi & Kesedaran

#FINANCIALLYSUSTAINABLE

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TARGETS

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Areas of Strength for Malaysia

TOP 200

QS WORLD UNIVERSITY RANKINGS by subject

QS SUBJECT RANKING MAPPING (2018)

	Subject	≤ 50	Top 51-100	Top 101-150	Top 151-200
ARTS & HUMANITIES	Architecture / Built Environment		UKM, UM, USM, UTM	UPM	UiTM
	Art & Design		UM	USM	
	English Language & Literature		UKM, UM	UPM	USM
	Linguistics		UM	UKM, USM	
	Performing Arts		UCSI, UM		
	Theology, Divinity & Religious Studies	IIUM (31)	UKM, UM, USM		
LIFE SCIENCES & MEDICINE	Agriculture & Forestry		UM		UTM, UMS
	Medicine				UM
	Pharmacy & Pharmacology		USM	UM	UKM, UPM
	Computer Science & Information Systems		UM, USM	UPM, UTM	UKM
ENGINEERING & TECHNOLOGY	Eng - Chemical	UM (42)	UKM, UPM, USM, UTM	UTP	
	Eng - Electrical & Electronic	UM(30)	USM, UTM	UKM, UPM	
	Eng - Civil & Structural	UM (46)	UKM, USM, UTM	UPM	
	Eng - Mechanical, Aeronautical & Manufacturing	UM (41)	USM, UTM	UKM, UPM	UTP
	Eng - Mineral & Mining	USM (43), UM (47)			
NATURAL SCIENCES	Chemistry			UM	UPM, USM
	Environmental Sciences		UM, USM	UPM, UTM	UKM
	Geography			UM	USM
	Materials Science			UM, USM	UTM
	Mathematics			UM	USM
SOCIAL SCIENCES & MANAGEMENT	Accounting & Finance			UM	UKM, UPM, UiTM
	Anthropology		UM		
	Business & Management Studies		UM	USM	UKM, UPM
	Communication & Media Studies		UM	UKM	USM
	Development Studies	UM (30)	USM		
	Economics & Econometrics				UM
	Education & Training		UKM, UM, USM	UPM	UTM
	Hospitality & Leisure Management	Taylor's (21)			
	Law			UM	
	Library & Information Management	UM (24)			
	Politics & International Studies				UKM
	Social Policy & Administration		UKM		
	Sociology				UM
	Sports-Related Subjects		UM		
	Statistic & Operational Research			UM	UKM, USM
	Subject	≤ 50	Top 51-100	Top 101-150	Top 151-200

117 Subjects in 2017

103 Subjects in 2018

UTeM world top 200 in ICT, Electrical & Electronic, Mechanical & Manufacturing by 2022

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QS UNIVERSITY RANKINGS ASIA

YEAR	QS UNIVERSITY RANKINGS : ASIA																										
	UM	UPM	UKM	USM	UTM	UTP	UUM	Taylor's	UiTM	IIUM	MMU	UCSI	MSU	LimKWP	UniMAP	UMS	UNITEN	UNIMAS	UTAR	UMT	UMP	Sunway	UTHM	Al-Madinah	UniKL	UPSI	UniSZA
2018	24	36	43	46	49	101	131	150	158	163	179	212	217	219	221	222	243	247	251-260	271-280	281-290	291-300	301-350	351-400	351-400	351-400	351-400
2017	27	49	55	51	63	127	137	179	181	151	193	301-350	-	251-300	221-230	211-220	251-300	251-300	251-300	251-300	251-300	-	301-350	-	-	-	-
2016	29	66	56	49	61	151-160	191-200	201-250	201-250	151-160	201-250	251-300	-	251-300	201-250	201-250	251-300	201-250	251-300	251-300	251-300	-	251-300	-	-	-	-
2015	32	76	56	57	66	191-200	201-250	-	201-250	145	201-250	-	-	251-300	201-250	201-250	251-300	201-250	-	251-300	251-300	-	251-300	-	-	-	-
2014	33	72	57	61	68	201-250	201-250	-	201-250	151-160	201-250	-	-	251-300	201-250	-	201-250	181-190	251-300	251-300	251-300	-	251-300	-	-	-	-
2013	35	76	58	63	74																						
2012	39	57	53	54	76																						
2011	42	77	58	69	82																						

UTeM top 400 QS Ranking ASIA in 2021

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UI GreenMetric
World University Rankings

CERTIFICATE

This certificate is awarded to

Universiti Teknikal Malaysia Melaka

as The 114th World's Most Sustainable University
in 2019 UI GreenMetric World University Rankings

Jakarta, December 3, 2019

Prof. Dr. Ir. Muhammad Anis. M. Met
Rector of Universitas Indonesia

Prof. Riri Fitri Sari, M.M., M.Sc
Chairperson of UI GreenMetric
World University Rankings

UTeM top 100 UI Green Metric World University Ranking in 2020

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GRADUATE EMPLOYABILITY

#EMPLOYERS'GRADUATESOFCHOICE

2019

(6 months after convo)

93%

(as at 14 Feb'20)

2020

(6 months after convo)

95%

(KPI KPM – 90%)

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Di Akhir Kalam...

1. TERUSKAN MENCIPTA KEUNGGULAN UTeM
2. BERSATU MENGHARUNGI CABARAN
3. MEMUPUK NILAI TUAH DAN INTEGRITI DALAM DIRI
4. MANTAPKAN POTENSI DIRI MENJADI PENYUMBANG SOLUSI
5. TUNAIKAN JANJI KEPADA UNIVERSITI, MASYARAKAT, NEGERI DAN NEGARA

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MANTRA

Let's
R.I.S.E
Together

Responsibility.Integrity.
Sustainability. Empathy

HUMILITY

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NILAI TERAS UTeM

1. **TEKAD UNTUK CIPTA PERUBAHAN**
   (Passionate to make a difference)
   -Kreatif dan Inovatif Berimpak Tinggi

2. **CEKAL (RESILIENCE)**
   -Komited Tahan lasak,
   Tidak Putus Asa

3. **KESETIAAN (LOYALTY)**
   -Bersatu, Hormat, Ketaatan,
   Kekeluargaan, Kekitaan

4. **INTEGRITI (INTEGRITY)**
   -Amanah, Telus,
   Kebertanggungjawaban,
   Mempercayai

5. **PROFESIONALISMA (PROFESSIONALISM)**
   -Kerja Kualiti, Tidak Emosi Melulu

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SLOGAN

UTeM adalah
MELAKA
adalah
UTeM

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

PROMOTION
VISIBILITY
GLOBALIZATION

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WE WANT OUR:

STUDENTS

To be compelling technologists and workforce

LECTURERS

To be scholars who are stimulating go-getters and inventors

SUPPORT STAFF

To be well trained and robust

Ayuh...TUNAIkan janji kita!

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"Successful people do what unsuccessful people are not willing to do. Don't wish they were easier; wish you were better."

-Jim Rohn-

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SURAH AL-'ASR

سُورَةُ ٱلْعَصْر

بِسْمِ ٱللَّهِ ٱلرَّحْمَٰنِ ٱلرَّحِيمِ

وَٱلْعَصْرِ ﴿١﴾ إِنَّ ٱلْإِنسَٰنَ لَفِى خُسْرٍ ﴿٢﴾ إِلَّا ٱلَّذِينَ ءَامَنُوا۟
وَعَمِلُوا۟ ٱلصَّٰلِحَٰتِ وَتَوَاصَوْا۟ بِٱلْحَقِّ وَتَوَاصَوْا۟ بِٱلصَّبْرِ ﴿٣﴾

TERJEMAHAN AYAT

Demi masa.
Sesungguhnya manusia itu benar-benar dalam kerugian,
kecuali orang-orang yang beriman dan mengerjakan amal soleh dan nasihat menasihati supaya mentaati kebenaran dan nasihat menasihati supaya menetapi kesabaran.

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TERIMA KASIH
THANK YOU

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14 Februari 2020 | Dewan Canselor, UTeM

MyUTeM
www.utem.edu.my

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