



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



Monthly Engagement Dec 2015



Expanding
the Research Horizon

innovative • entrepreneurial • global



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Content

- 1. Important Announcement**
- 2. Recent Research Achievement**
- 3. Future UTM Game Changer**
- 4. Some Motivation**
- 5. Way Forward**

Expanding
the Research Horizon

1.0 Important Announcement

Tahniah

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atas penarafan

6 bintang MyRA 2014



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Heartiest Congratulations



AMTEC
Advanced Membrane Technology
Research Centre

IKG

Institute of Noise and Vibration (IKG)

for being recognised as a
**HIGHER INSTITUTION CENTRE of EXCELLENCE
(HICoE)**



univteknologimalaysia



utm_my



utmofficial

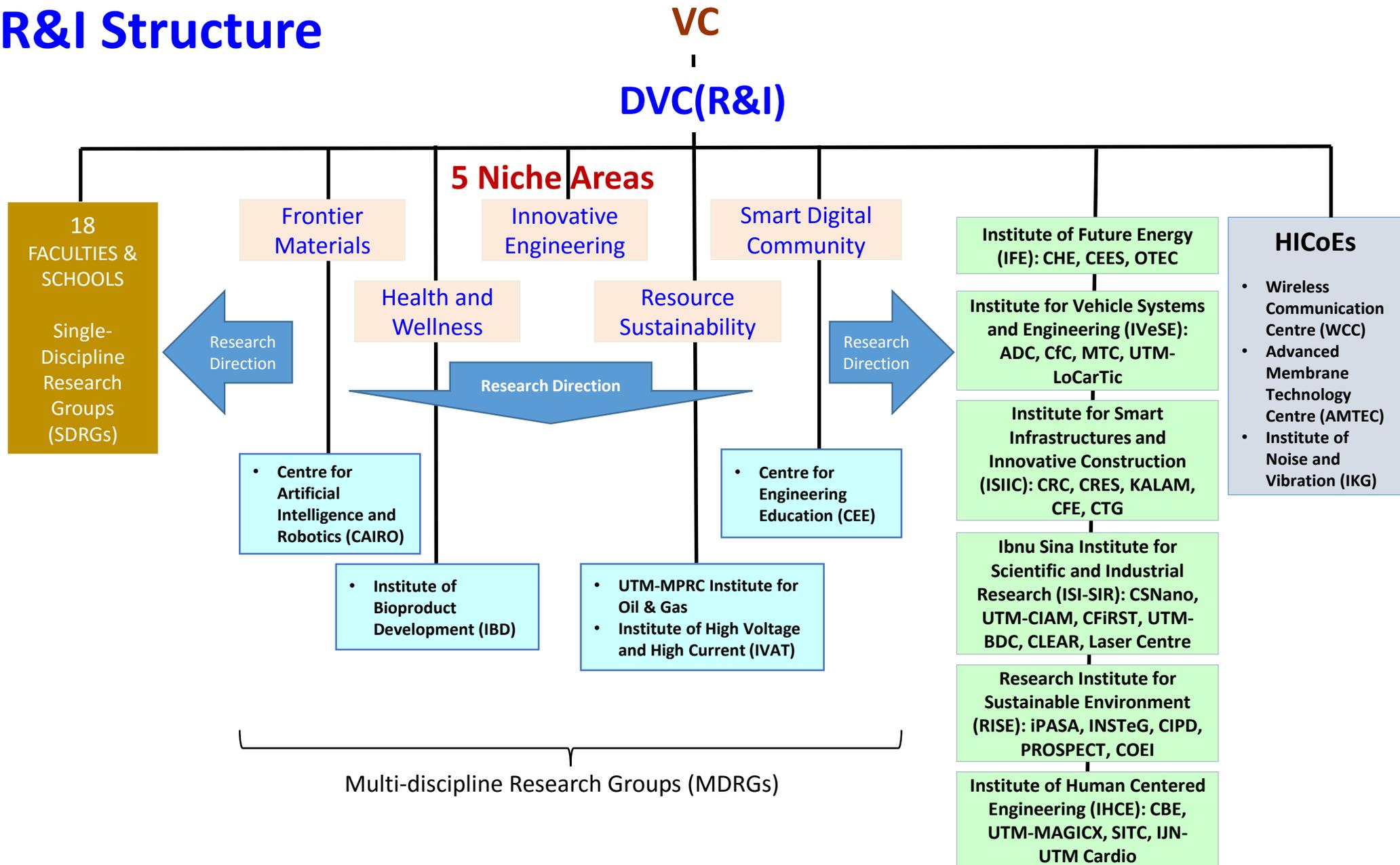


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UTM R&I Structure





Online Teaching Evaluation (e-PPP) for Undergraduates & Postgraduates

Semester 1 session 2015 / 2016

Date : 24th November 2015 - 19th December 2015

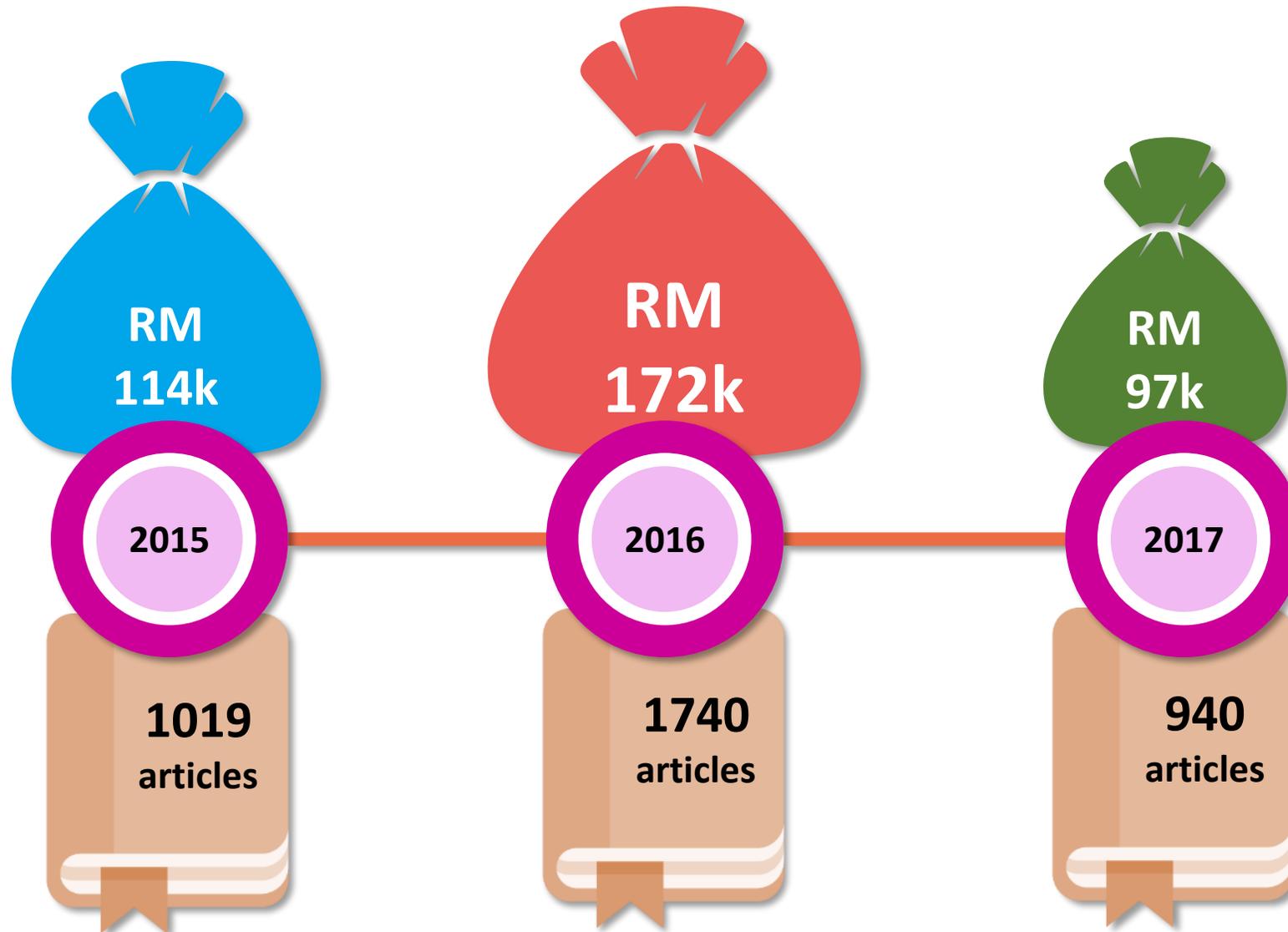
<http://aimsweb.utm.my/eppp/>

**LATEST e-PPP
EVALUATION STATISTIC
(UNTIL 9 DEC 2015)**

**5 MORE DAYS LEFT!
(LAST DAY : 19 DIS 2015)**

#	FACULTY / PTJ	POSTGRADUATES	UNDERGRADUATES
1.	FAB	89%	93%
2.	FKA	94%	100%
3.	FKE	46%	86%
4.	FKM	36%	51%
5.	FS	70%	85%
6.	FGHT	2%	96%
7.	FC	57%	86%
8.	FM	42%	72%
9.	FP	46%	87%
10.	FTI	93%	64%
11.	UTM AIS	29%	-
12.	Razak School	18%	100%
13.	AB	33%	35%
14.	MJIIT	4%	12%
15.	FBME	71%	60%
16.	FKT	0%	45%
17.	IBS	57%	-
OVERALL UTM		46%	71%

Jurnal Teknologi Income Generation

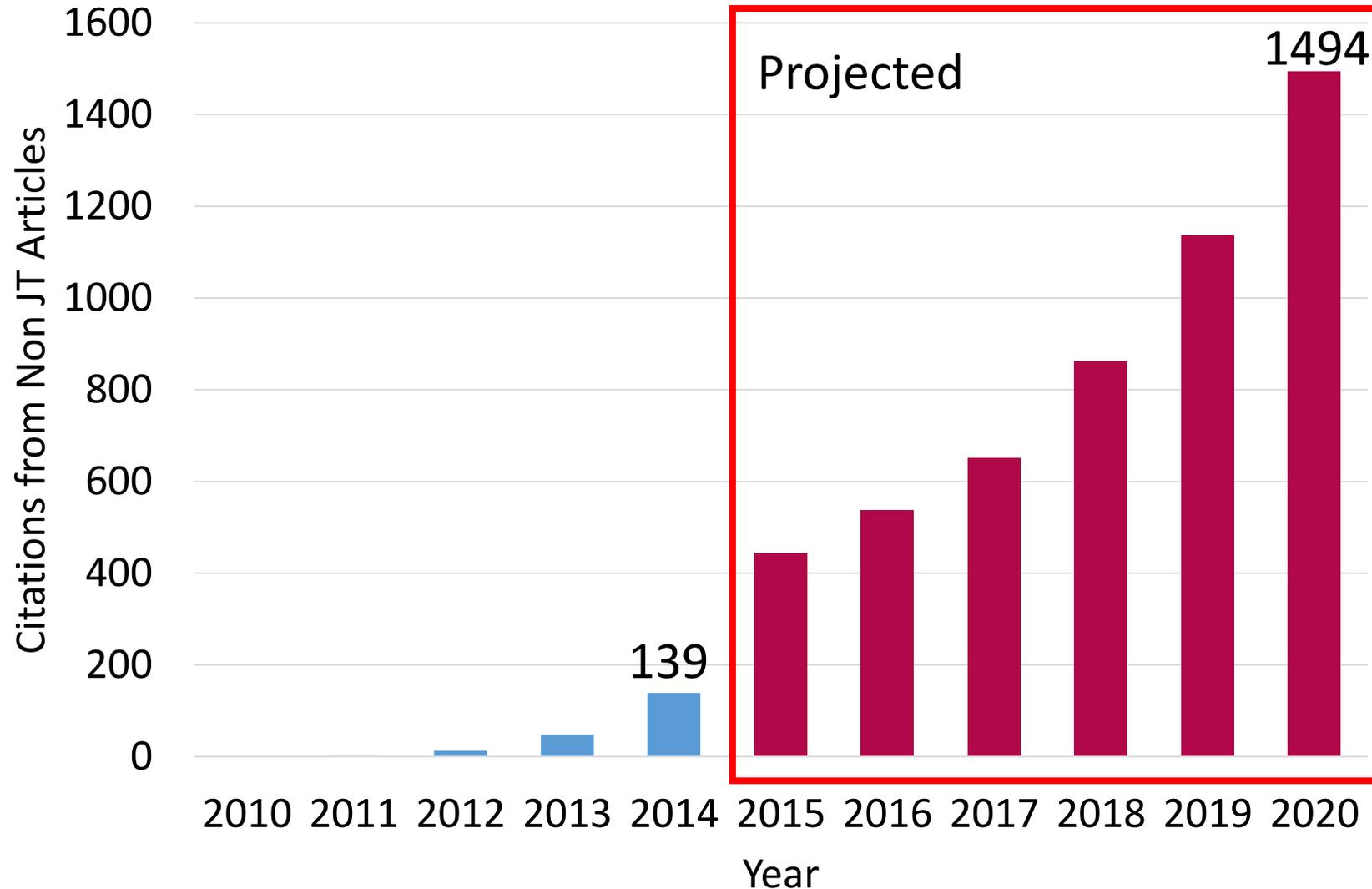


Income & articles are based on queue

We Must Be Financially Sustainable

Jurnal Teknologi Citations Initiative

(“Jom Cite Jurnal Teknologi” Initiative)



Everyone Must Cite *Jurnal Teknologi*

Office of DVC (Dev.) Teambuilding

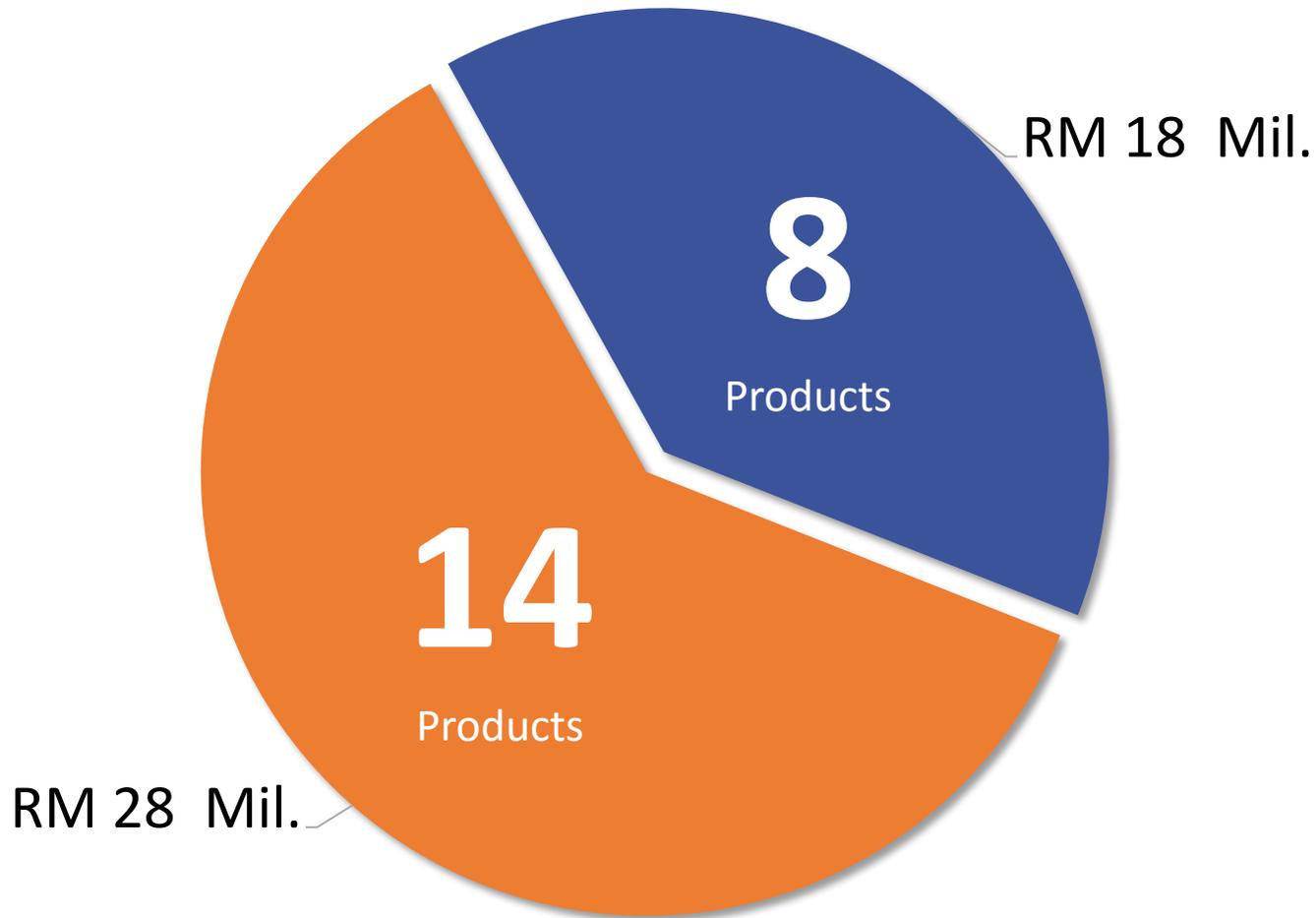


- Programme @ Hutan Rekreasi
- RM 50 per pax
- aerobic exercise, jungle trekking, water activities, team games, archery, BBQ lunch



Prudent Spending using In-house Facilities

Symbiosis Program (2012-2017)



Niche Area	No of Products
Frontier Materials	1
Resource Sustainability	3
Innovative Engineering	5
Health & Wellness	12
Smart Digital Community	0

Faculties	No of Products
FKT	13
FBME	3
FKE	2
FKA/FAB/FKM	1

We Must Commercialize Our Product

Risk Based Asian Oriented Integrated Watershed Management – The 5th Comprehensive Symposium (CS5) at Kyoto Japan 17 – 21 Nov 2015

- 13 fully sponsored participants from UTM
- 5 years collaboration between UTM, UM and UKM with Selected Japanese Universities (headed by Kyoto Univ)
- Matching Grant between the Japanese Society for the Promotion of Science – Asian Core Program and the Ministry of Higher Education Malaysia
- Activity: student/researcher attachment, joint supervision and publication

We Need International Prominence



UTM in National Taskforce (2015)



Flood Disaster Forensic Research Taskforce

- ✓ Forensic approach to investigate the 2014 major flood in Kelantan
- ✓ Co-headed by two UTM researchers (in addition to one each from UKM, USM & UMK); with six researchers as team members

We Need National Prominence

Pure (Research Profile Management)

The screenshot shows the UTM Experts website. At the top left is the UTM logo with the text 'UNIVERSITI TEKNOLOGI MALAYSIA' and 'innovative • entrepreneurial • global'. To the right is the 'UTM Experts' title. Below the title is a navigation menu with 'Home', 'Experts', 'Research outputs', 'Research units', and 'Journals'. A search bar is present with a dropdown menu set to 'Everything' and a search icon. Below the search bar, statistics are displayed: '1949 Experts', '24K Research outputs (1972 - 2016)', and '120 Research units'. The main content area starts with a 'Welcome!' section, followed by a paragraph about the directory's purpose. Below this is a paragraph about searchability and contact information. At the bottom, there are sections for 'Recent Research Outputs' and 'Profiled Experts' with an alphabetical index.

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UTM Experts

Home Experts Research outputs Research units Journals

Everything Search

1949 Experts 24K Research outputs (1972 - 2016) 120 Research units

Welcome!

Welcome to the UTM Experts Directory, a searchable database of the research interests of UTM academic staff. UTM recognises the important role media engagement plays in raising its profile and bringing its research and expertise to a wider audience. UTM is one of the Malaysia's leading universities for research and we can offer a wide range of expertise on many different subjects.

Searchable by staff name and/or section and/or area of expertise, the directory is an excellent source of both story ideas and leads as well as background information on emerging issues. If you are a member of staff (professional or academic) and would like to be included in the Experts Directory, please contact the Office of Deputy Vice Chancellor (Research & Innovation), Universiti Teknologi Malaysia (www.utm.my). We look forward to working with you!

For any inquiries regarding UTM Pure, do email us at pure.utm@gmail.com (UTM Pure team).

Recent Research Outputs

Profiled Experts

An overview of current knowledge concerning the health and environmental consequences of the Fukushima Daiichi Nuclear Power Plant (FDNPP) accident

A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z

The advertisement features an orange header with the Elsevier Research Intelligence logo and the Elsevier tree logo. The word 'Pure' is written in a large, orange, sans-serif font. Below it, the text 'Showcasing researchers, supporting collaboration' is in a smaller, blue font. A list of five benefits is presented with circular icons: 'Reduce administrative burden by consolidating research information into one system', 'Report on research output and impact of each department', 'Give researchers access to up to date customizable CV's', 'Make researchers more globally discoverable', and 'Increase chances of collaboration'. To the right of the list is a circular graphic composed of various colored segments (orange, grey, green, white) with white lines connecting different points, resembling a network or data visualization. Below the list, the text 'Experience the all new Pure Experts Portal:' is followed by the URL 'pure.utm.my' in orange. At the bottom left is the UTM logo, and at the bottom right is the slogan 'Empowering Knowledge™' in white on an orange background.

Elsevier Research Intelligence

Pure

Showcasing researchers, supporting collaboration

- Reduce administrative burden by consolidating research information into one system
- Report on research output and impact of each department
- Give researchers access to up to date customizable CV's
- Make researchers more globally discoverable
- Increase chances of collaboration

Experience the all new Pure Experts Portal:
pure.utm.my

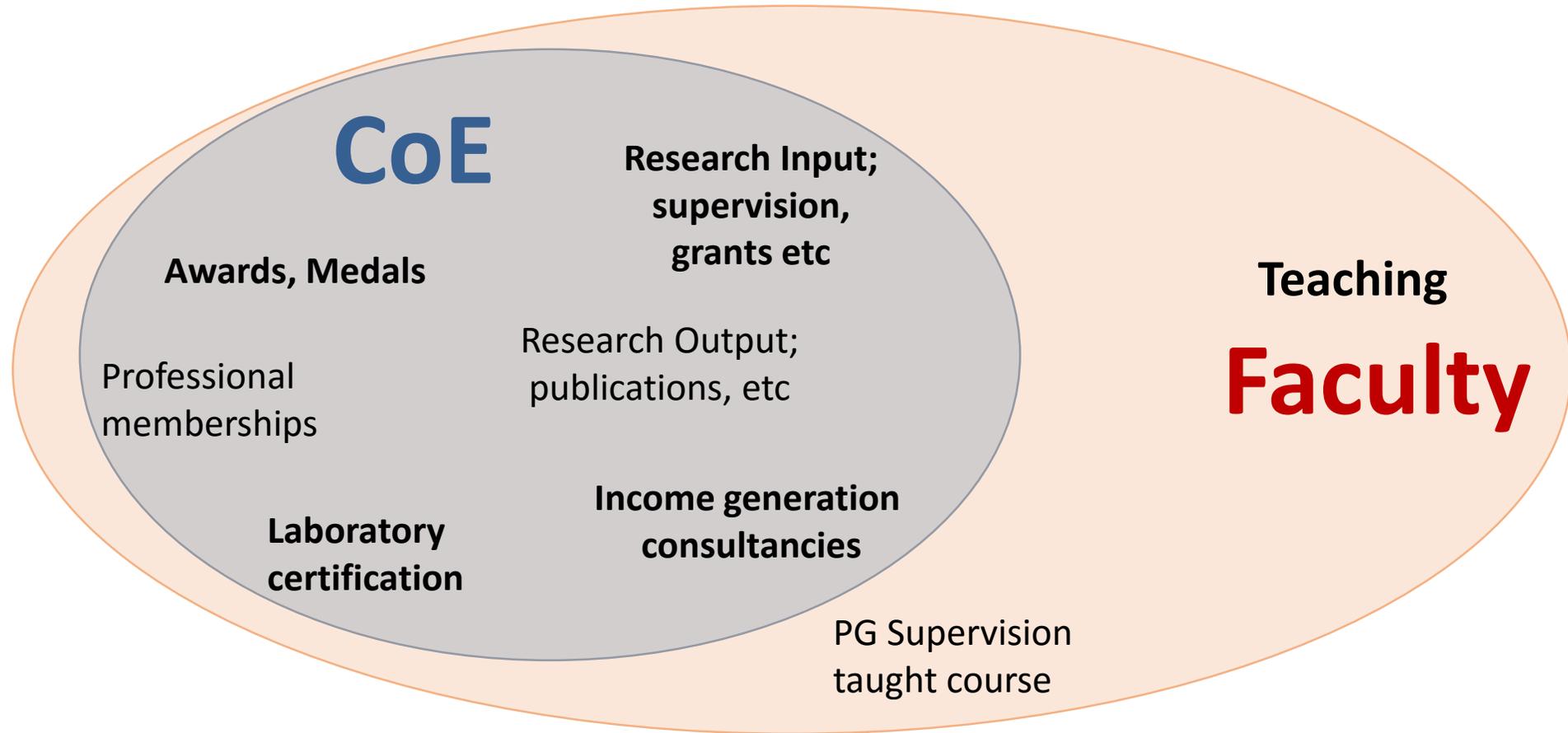
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Empowering Knowledge™

SciVal Experts is now Pure (pure.utm.my)

2.0 Recent Achievement

What Have UTM Transformed (2015)?



Everybody Must Do Something

What Have UTM Achieved (2015)?

303
Overall

100
Science & Engineering

30
Top 50 under 50

QS
Ranking
2015

1
In Malaysia

56
BRICS & Emerging Economy

17
Top 10% Engineering Research Publication Impact (Asia)

1
Top 10% Science & Eng. Research Publication Impact (Malaysia)

THE Ranking 2015/6

CWTS Leiden Ranking 2015

We are Improving

CWTS Leiden Ranking 2015

Size-independent ranking

In this ranking the performance of a university does not depend on the size of its publication output

Size-dependent ranking

In this ranking universities with a larger publication output generally perform better than universities with a smaller publication output

Select field and region/country

Field:

Region:

Country:

Select indicators

Type of indicators:

Ranking indicator:

Advanced parameters

Rank	University	Country	P	PP(top 10%)	Stability interval
1	Univ Teknologi Malaysia		1452	10.3%	
2	Univ Sains Malaysia		3708	7.7%	
3	Univ Malaya		4040	7.1%	
4	Univ Putra Malaysia		2749	6.2%	
5	Univ Kebangsaan Malaysia		1792	6.1%	

The UTM SHINE Initiative

(Strategy for Harnessing and Inspiring Top Notch Scientist & Researchers)



20

Researchers

4%

Grants Contribution
(RMK-9 & RMK-10)

8%

Q1/Q2 Publications
Contribution in 2014

4 International

3 Private

5 MOSTI

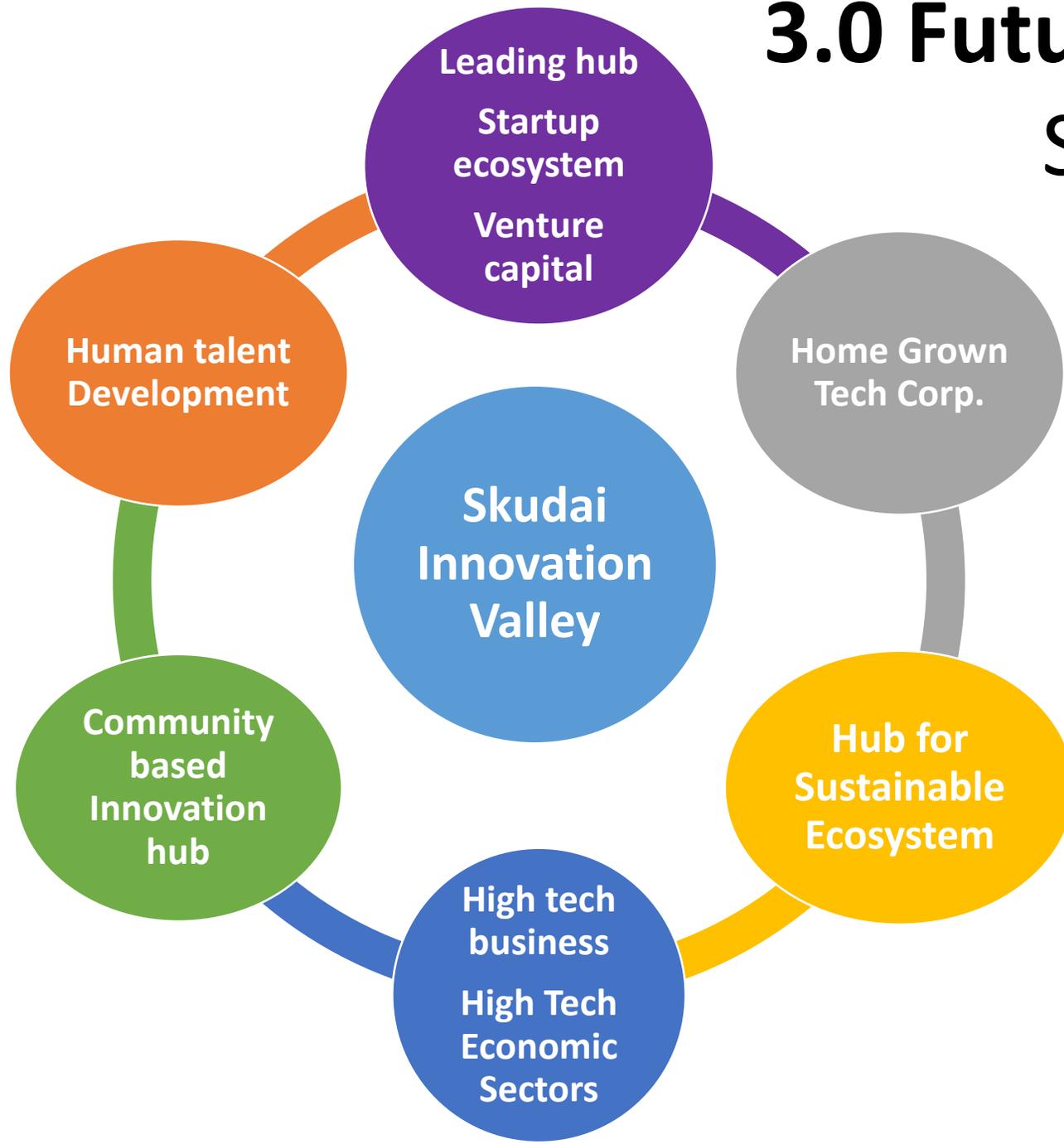
12 MOHE

13%

Q1/Q2 Publications
Contribution in 2015

#Kipidap

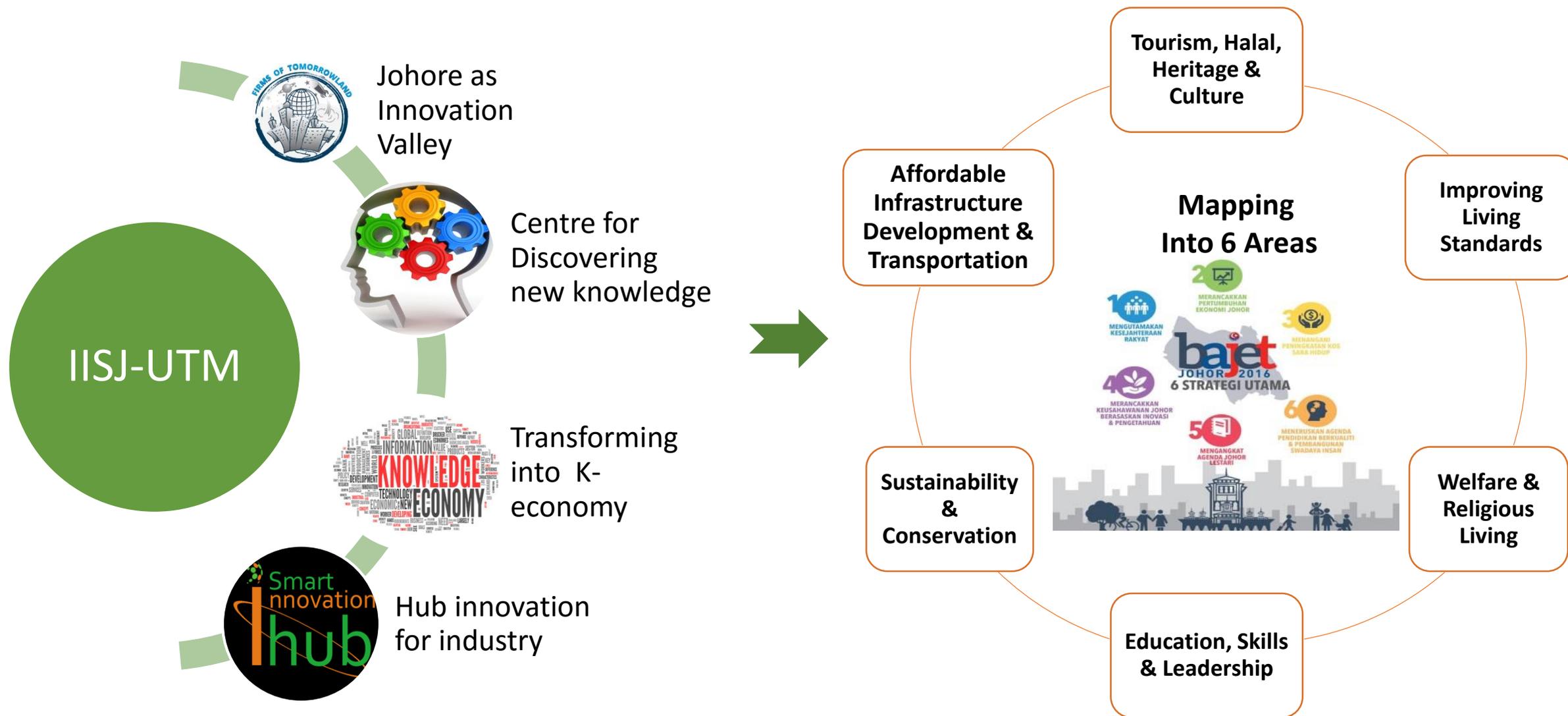
3.0 Future UTM Game Changer Skudai Innovation Valley





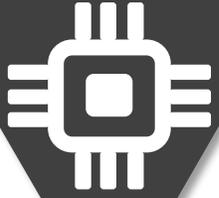
UTM Future Initiative

Johor-UTM Strategic Innovation Institute



UTM Future Initiative

Skudai Innovation Valley



Technology Transfer Showcase

2014: Biotech. for Health & Wellness

2015: ICT, Water & Membrane Tech., Construction & Materials

2016: Green Tech., Electronics & Automotive

Income from Commercialization

Current: RM 15.9 million

Expected next 5 years: RM 25.5 million



Pre-commercialization Fund

Current: RM 23.9 million

Expected 2016: RM 46 million

UTM Future Initiative



Campus Sustainability
(Waste/Low Carbon/
Energy etc.)

**Commercialization , Consultation
& Technology Licensing**
(Income from product / licensing)



Income Generation
(Drinking Water/ Energy
(EV)/ Living Lab etc.)



ECO Campus (Income/
Branding & networking etc.)



ECO Gallery Showcase
(Branding & networking etc.)



UTM Research Ecosystem

- ✓ Top Management
- ✓ HiCOE
- ✓ Research Institutes
- ✓ CoE

✓ Faculties

- ✓ RMC
- ✓ Bursary
- ✓ ICC
- ✓ UPMU
- ✓ Library
- ✓ etc.

We Need a Solid Base!

4.0 Some Motivation

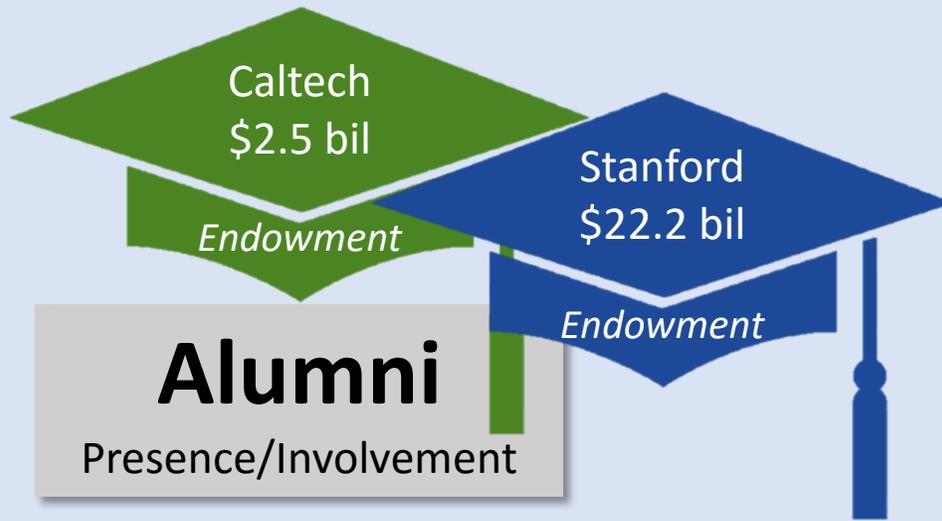
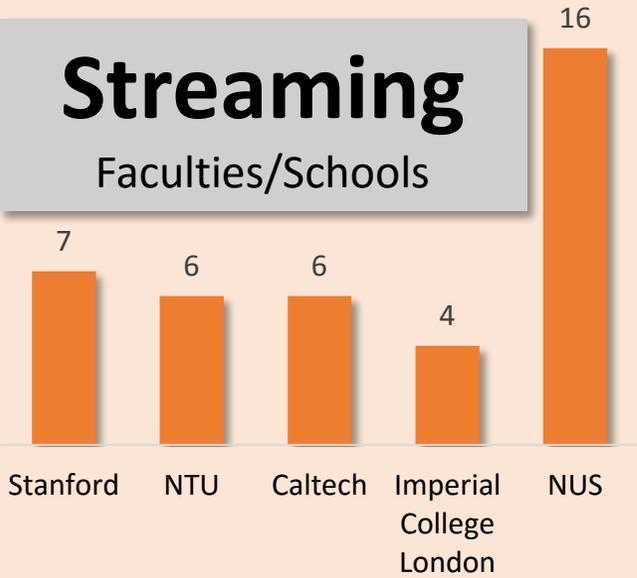
What Does It Takes to Retain Top University Status?



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Streaming

Faculties/Schools



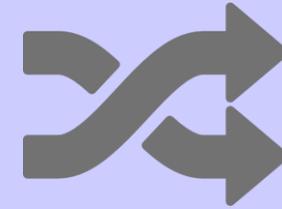
Alumni
Presence/Involvement

Cross Discipline

Research/Centres/Institutes

Caltech
68% Centers are cross-faculties

Stanford
40 cross faculty degree programs



Stanford
All centres under General Pediatrics Dept are multi-disciplinary

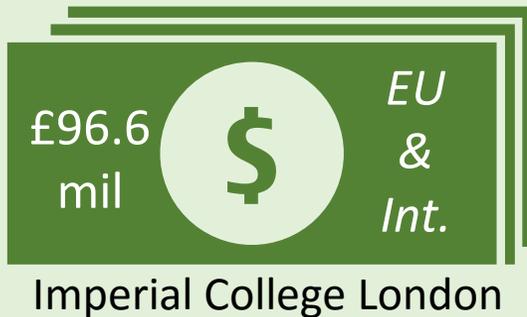
Others

Facts & figures

Caltech	15 states level scientist of the year
Caltech	95% UG participate in research
Stanford	99% academic staff received highest qualifications; 62% professors
NUS	240 students overseas attachment

Significant

External Grants/Sponsors



Stanford

18

Independent lab/centres

NUS

16

National level institutes

National

Level Centres/Institutions



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What is the Most Important “Ingredient” of Top University?

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NEW MINDSET



NEW RESULTS

Mindset

(and probably some coffee...)



Attitude is Everything

A bad **attitude** is
like a flat tire

You can't go
anywhere until
you **change** it



Collaboration = Teamwork



and Teamwork always Works



We cannot do **everything**

at once, but we can do

something at once.

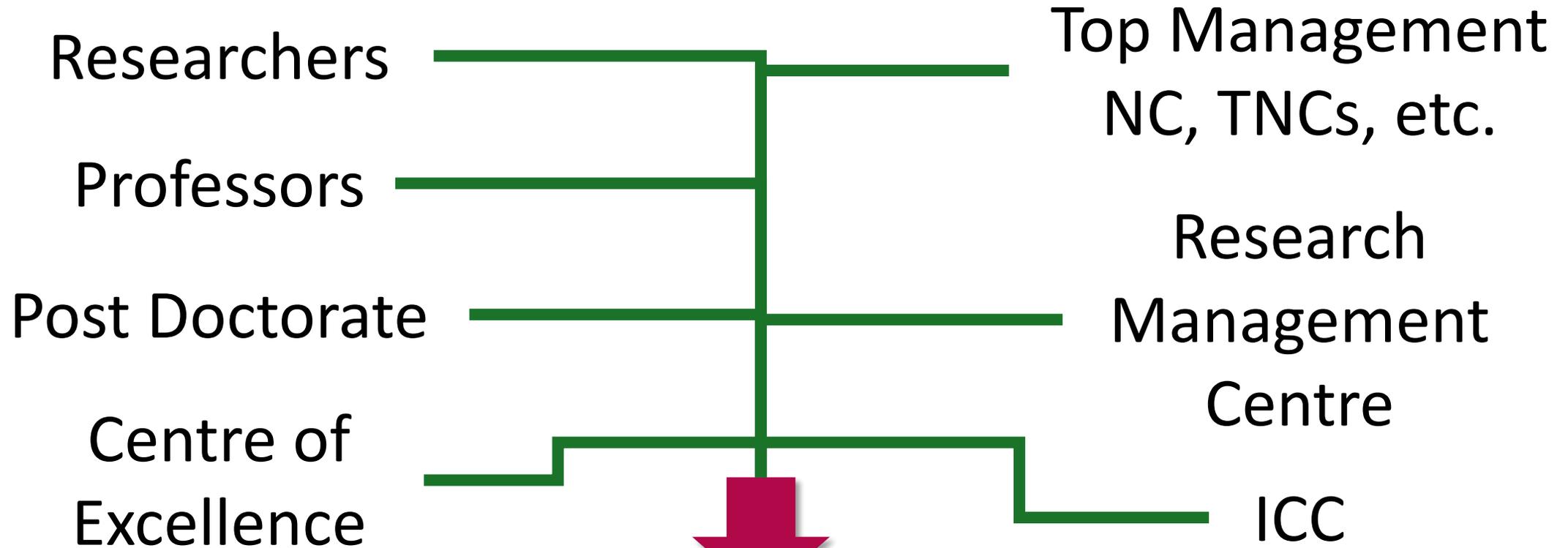
What More Do UTM Have?

(hint: it rhymes with “U”)



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Our Research Workforce (What People Assumed)



Grants, papers,
commercialization, conference,
exhibition, awards, income, etc.

We are More than This

Our Research Workforce (Actual)

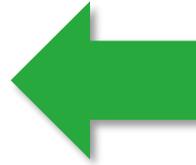
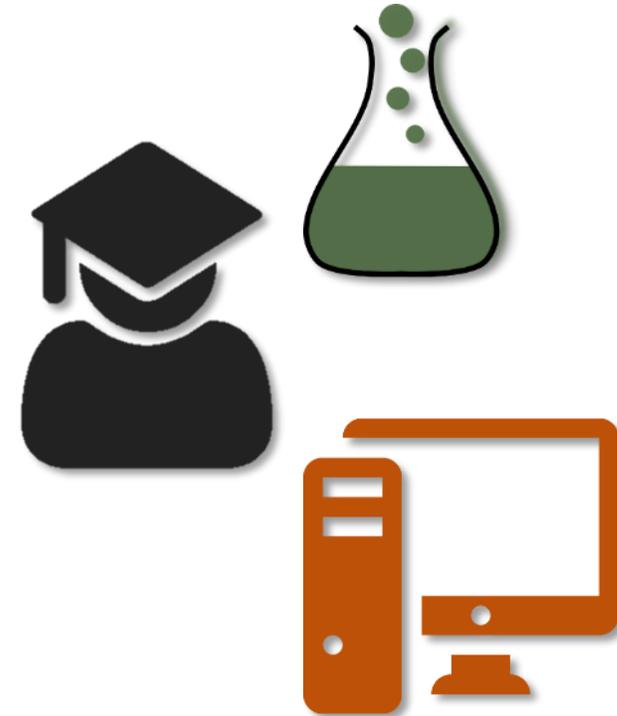
everyone

How come **everyone**?

Output



Academic Staff



Everyone Has an Important Role

How come everyone?

Output

Behind-the-scene

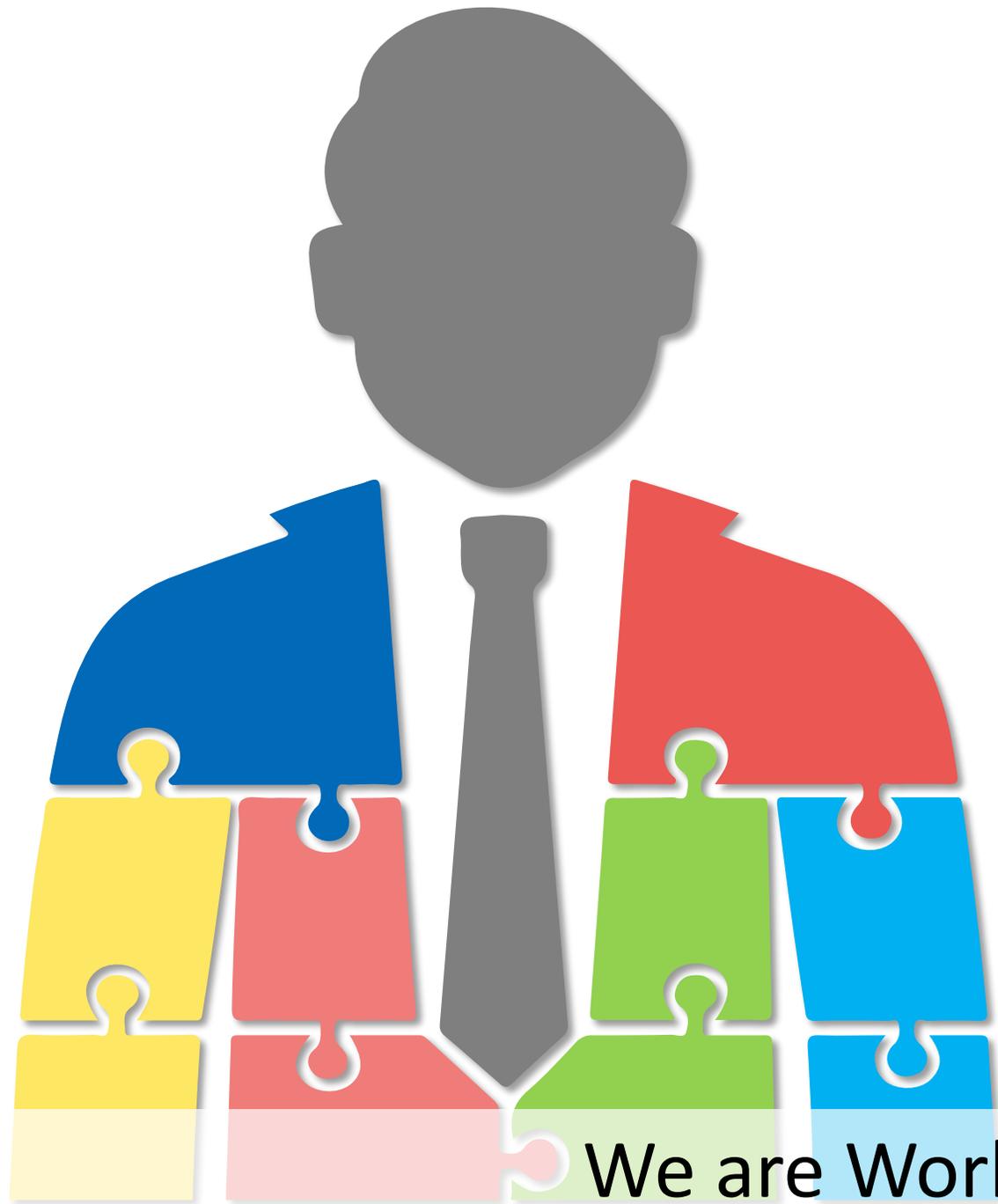
Academic Staff



Superman Does Not Exist



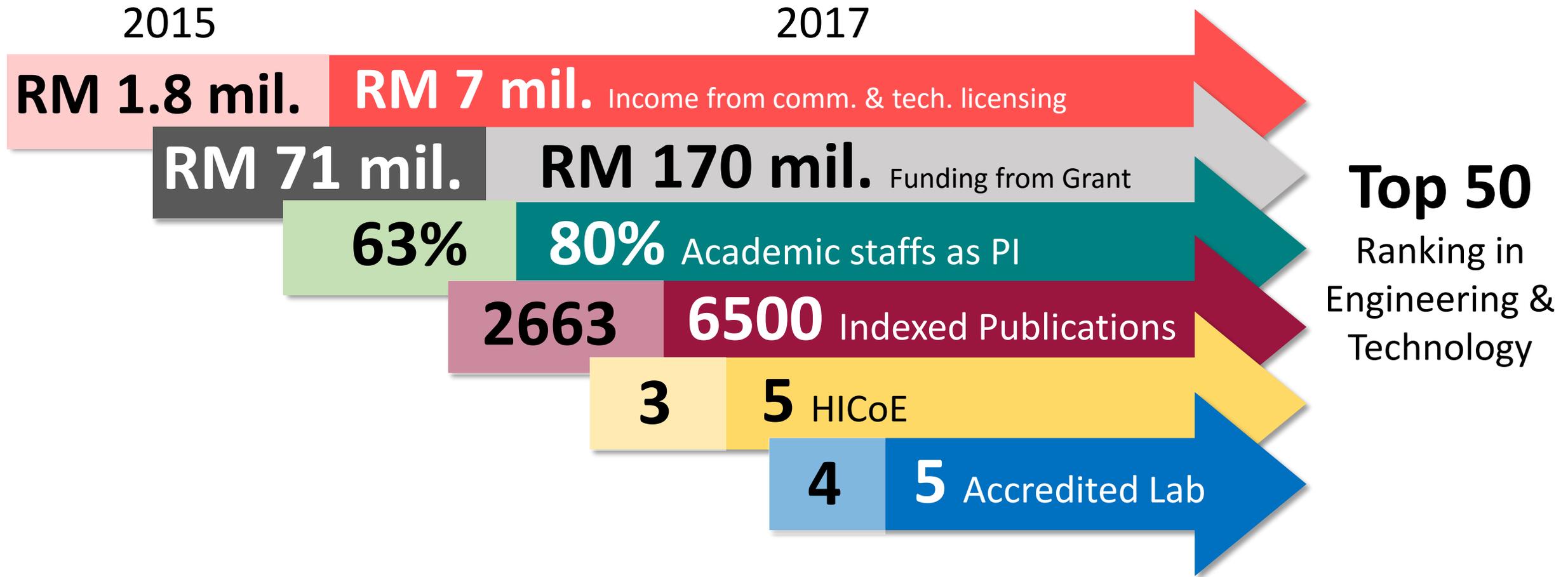
We need everyone



Mindset
Attitude
Teamwork
Alignment

We are Working Together

UTM R&I Achievement – Target (2015 – 2017)



Everyone is Working Towards these Goals

UTM R&I Strategies (2015)

Branding

Income

Funding

Publications

- Five focus area task force headed by Dean of RA
- Champions Program, Policies Drafting, Workshops/Awareness, Strategies

INNOVATION

Each Task Force Require Strong Support Units



**We need everyone
all the way forward**



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This Presentation is Dedicated to All **UTM** Staffs

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Thank you everyone

Ahmad Fauzi Ismail. PhD., FASc., CEng., FIChemE.



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