



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA



**Wahid Omar**

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# UTM Monthly Engagement 2015 (June)

Bertemu mesra, berkongsi rasa, mencambah minda #6 2015





# The Presentations

- Achievements
- Events/ Visits/ Updates
- Aligning PGU2 and PPPMPT
- **Financial Management**
- Concluding remarks



# Congratulations!



**The 3rd National Concrete Pontoon Competition 2015 (CPC 2015)**



**Invention, Innovation and Design Exhibition, IDEX 2015**



**KUPU Awards For Multimedia Islamic Education (Brunei)**



# Congratulations!

 **HEARTIEST CONGRATULATIONS TO ASSOC. PROF. DR. SHARIFAH RAFIDAH BT WAN ALWI DIRECTOR OF PROSPECT FOR BEING CONFERRED THE YOUNG SCIENTIST NATIONAL AWARD 2015**



Innovative • entrepreneurial • global

 **Congratulations to ZAFIRA NADIA MAAZ & JIRAM ANAK RANDY (BSc Quantity Surveying) for receiving the BEST PRESENTER AWARD at the 7th RICS-RISM International Conference for Undergraduates 2015**

Innovative • entrepreneurial • global



UTM Architecture Students Awarded Prestigious PAM-Feruni Ceramiche 2015 Scholarship

 **Setinggi-tinggi tahniah kepada Prof. Madya Dr. Mohd Zarhamdy b. Md. Zain di atas pengurniaan Anugerah Khas Persatuan Orang-Orang Cacat Penglihatan Islam Malaysia (PERTIS) 2015 untuk Hasil Kajian Petunjuk Kiblat bagi Orang-Orang Cacat Penglihatan**

Innovative • entrepreneurial • global





## International Education Conference

- Boston, USA
- London, UK







**UNIVERSITY PRESIDENTS FORUM (UPF) 2015**  
12<sup>th</sup>-14<sup>th</sup> MAY 2015 | UNIVERSITI TEKNOLOGI MALAYSIA



**UNIVERSITY PRESIDENTS FORUM  
UPF 2015**  
12<sup>th</sup> - 14<sup>th</sup> May 2015  
*"Innovation and Entrepreneurship Nation Building"*



**42** Universities  
**13** Countries

**81** participants  
**17** President/ Rectors/ Vice-Chancellors

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**Majlis Menandatangani Perjanjian Pemindahan Teknologi Advance Moving Bed Bio – Reactor (AMBBR) kepada UTM**



**Majlis menandatangani MOU antara Kerajaan Negeri Johor dan Universiti Teknologi Malaysia**



**Pertemuan Pengurusan Kanan UTM dengan YB Menteri Pendidikan II**







Her Excellency, Mrs. Janet Bessong Odeka, Acting High Commissioner of the Federal Republic of Nigeria



Official Visit from the ambassador and rectors/ vice-chancellors from the Czech Republic

# 3 Ambassadors 1 High Commissioner



Al Nakbah Day with Palestinian Ambassador



Art-in-the-Park programme with US Ambassador

# Events & Visits



MoU Signing Ceremony with BPPT  
Indonesia



MoU Signing Ceremony for Pagoh Higher  
Education Hub's Student Residential

Official visit from Universitas Muhammadiyah,  
Indonesia



Session with National Council of Professors





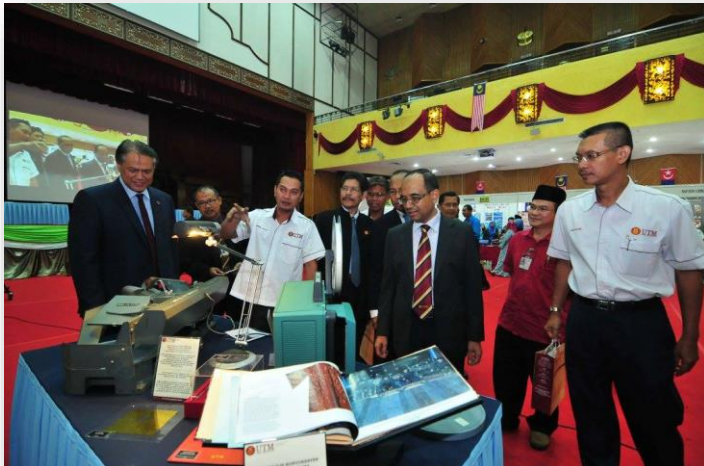
# Events & Visits



Majlis Pelancaran Dana Ramadhan  
1436 H



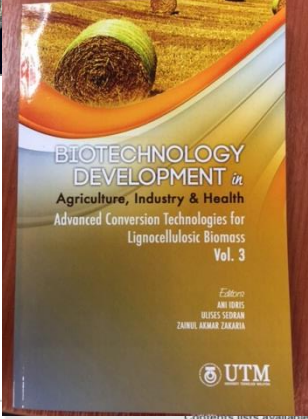
Wacana Fikrah Ummah : Peranan Institusi  
Raja Memperkasa Ketuanan Melayu



Hari Bertemu Pelanggan 2015



Citra Karisma



# UTM-CONICET BILATERAL COOPERATION (BCP-II) (UTM Flagship Programme )

Collaborator : **The National Scientific and Technical Research Council (CONICET), Argentina**

**Head:** Dr. Zainul Akmar bin Zakaria  
**Area of cooperation :** Biotechnology

**Duration:** 2015 – 2017

**No. of projects approved :** 5

**No. of UTM staff involved :** 30

**Project Value:** RM300,000 & ARS 750,000 (matching grant)

### Achievements to date:

- 1) Joint-publication in Q1 journal (IF = 8.905)
- 2) Joint-Editor for one UTM Press book
- 3) Attachment of 2 UTM's Ph.D student at CINDEFI, La Plata for 5 weeks (8/5 – 14/6/15)

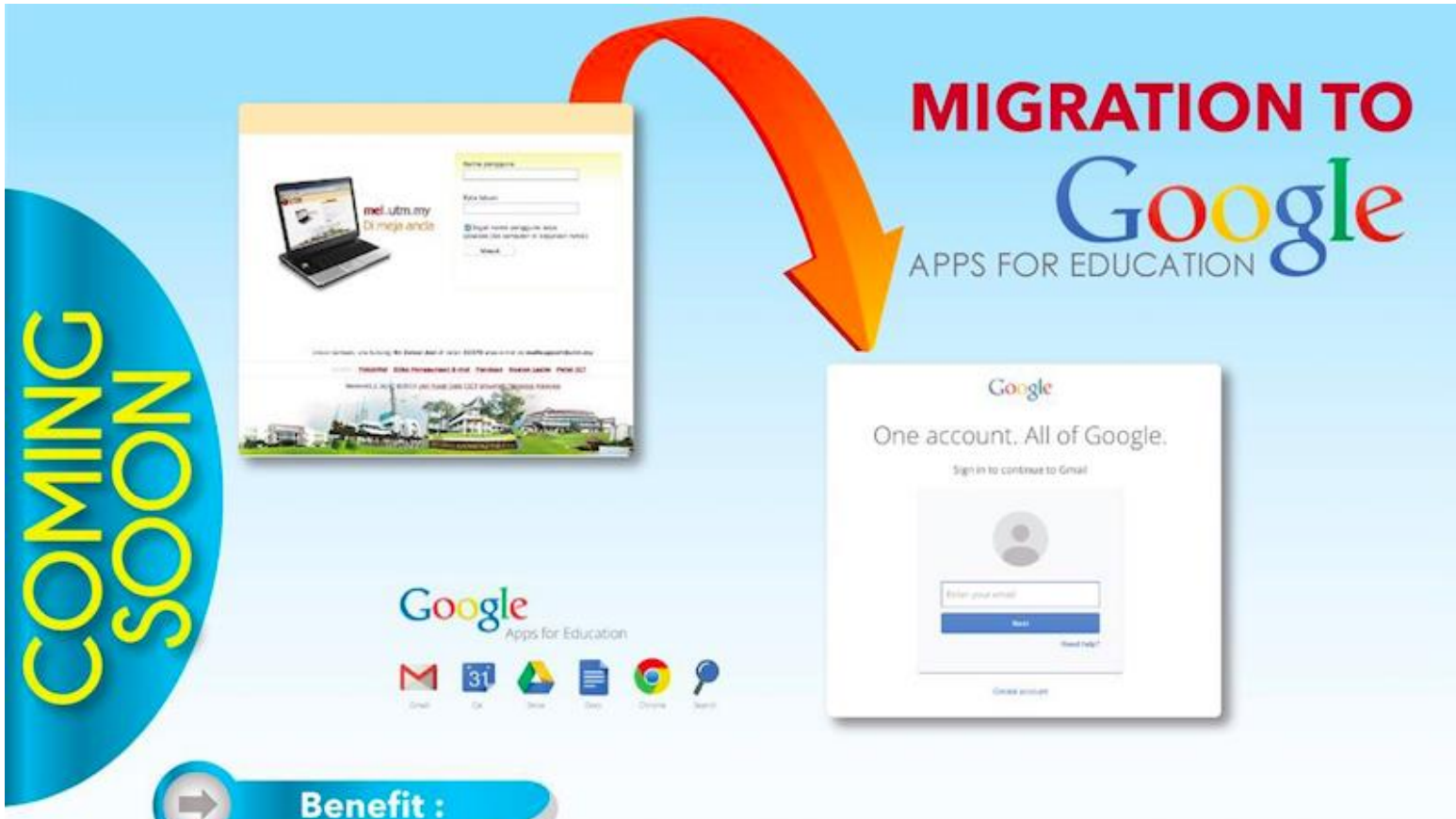
entrepreneurial • global

Research review paper  
 Thermophiles in the genomic era: Biodiversity, science, and applications  
 M. Sofia Urbieto<sup>a</sup>, Edgardo R. Donati<sup>a</sup>, Kok-Gan Chan<sup>b</sup>, Saleha Shahar<sup>c</sup>, Lee Li Sin<sup>c</sup>, Kian Mau Goh<sup>c,\*</sup>

<sup>a</sup> CINDEFI (CCT La Plata-CONICET, UNLP), Facultad de Ciencias Exactas, Universidad Nacional de La Plata, Calle 47 y 115, 1900 La Plata, Argentina  
<sup>b</sup> Division of Genetics and Molecular Biology, Institute of Biological Sciences, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia



# Migration to Google Apps



The graphic illustrates the migration process from a local email system to Google Apps. On the left, a screenshot of the 'mel.utm.my' email interface is shown. A large orange arrow points from this interface to a Google sign-in page on the right. The sign-in page features the text 'MIGRATION TO Google APPS FOR EDUCATION' and 'One account. All of Google.' Below the sign-in page, icons for Google Apps (Gmail, Calendar, Drive, Docs, Chrome) are displayed. A blue banner on the left side of the graphic reads 'COMING SOON'.

## Benefit :

- Unlimited Storage
- 99.99% availability
- Easy to Access
- Integrated with all Google Apps, Chat, Drive, Sites
- User Friendly

**BY**  
**AUGUST 2015**

ALREADY MIGRATED  
**UM, UKM, UMS, UIA, UPSI, OUM**

## *Rancangan Malaysia Ke-11 2016-2020*

### *Pertumbuhan Berpaksikan Rakyat*

#### **Penubuhan Kluster Minyak & Gas (CREATE COUNCIL)**

Malaysia Petroleum Resources Corporation (MPRC) agensi di bawah Jabatan Perdana Menteri sebagai Co-ordinator.

Sehingga kini **CREATE Council Members** terdiri

**UTM-MPRC (Pengarah)**, UM, UTP, Technips (M) Sdn. Bhd., ProEight Sdn. Bhd. dan MIT Technologies Sdn. Bhd.

Pihak UTM melalui UTM-MPRC akan memainkan peranan OGSI dalam bidang MARINE SYSTEM.

Membantu SME dalam OG transformasi selaras dengan ETP Polisi.





- 1 Excellence in Learning & Teaching
- 2 Excellence in Research, Innovation and Commercialisation
- 3 Sustainable Campus, Infrastructure, Information and Communications Technology (ICT) System, and Community Engagement & Industrial Network
- 4 Total Campus Experience
- 5 High Performance Delivery
- 6 Financial Sustainability
- 7 Global Reputation

innovative • entrepreneurial • global



# Alignment :

## Malaysia Education Blueprint 2015-2025 (Higher Education) & UTM Global Plan 2012-2020 (Phase II : 2015 – 2017)



**10 Shifts chapters**

- Shift 1 :** Holistic Entrepreneurial and Balanced Graduates  
KFA
- Shift 2 :** Higher Learning Talent Excellence
- Shift 3 :** Nation of Lifelong Learners
- Shift 4 :** Quality TVET Graduates
- Shift 5 :** Financial Sustainability
- Shift 6 :** Empowered Governance
- Shift 7 :** Innovation Ecosystem
- Shift 8 :** Global Prominence
- Shift 9 :** Globalized Online Learning
- Shift 10 :** Transformed Higher Education Delivery

**7 Key Focus Areas (KFA)**

- KFA 1 :** Excellence in Learning & Teaching S1,2,3,4
- KFA 2 :** Excellence in Research, Innovation and Commercialisation S2,3,7
- KFA 3 :** Sustainable Campus, Infrastructure, ICT and Community Engagement & Industrial Network S3,7,9
- KFA 4 :** Total Campus Experience S1,2,3,4
- KFA 5 :** High Performance Delivery S6,10
- KFA 6 :** Financial Sustainability S5
- KFA 7 :** Global Reputation S8



# Alignment: UTM 2015 Action Plan & PPPM

Program	Description	Program	Description
<b>UTMGems</b> S 1,2,3,4	Implement programmes based on the concept of New Academia	<b>Financial Sustainability</b> S 5	Intensify business development activities
<b>UTMShines</b> S 2,7	Implement structured initiatives to nurture talents towards increasing the number of scientists and researchers among UTM staff	<b>Infrastructure</b> S 7,10	Enhance campus ecosystem and conducive workplace
<b>NewLens</b> S10	Implement programme to equip PPP staff with new knowledge, expertise and skills	<b>Investment HRD</b> S 2,3,6,10	Empower 'K-organisation' and lifelong learning
<b>Skudai Innovation Valley</b> S 2,7,8	Empower wealth creation activities that impact the community through R&D&C	<b>Branding</b> S 8	Highlighting impactful achievements on a regular basis
<b>Campus Sustainability</b> S 7	Enhance ecotourism, Intensify campus activities in low carbon	<b>ICT &amp; System</b> S 7,9,10	Enhance and upgrade ICT capacity to support efficient and effective delivery systems
		<b>2016 Prime Minister's Innovation Award</b> S 7,8	Shift in thinking paradigm in triggering creative and innovative ideas

# Alignment of 10 PPPM Shifts with UTM Initiatives



1

## Holistic, Entrepreneurial & Balanced Graduates

- **UTM Gems**
- Student Innovation Centre
- 5 ETP, SKIT
- PhD Industry
- On Campus Job
- Student Run Event Mgmt. (FESKO)
- Career Fair
- Accelerated Route: 'Product to Market'
- SYNERGY between TNCs
- GOP
- Automatic regist. with BEM (Engin. Students)



2

## Talent Excellence

- UTM Human Capital Blueprint (2013-2020)
- Research Alliances
- UTMLead
- HICoE & CoEs
- Flagship Projects
- **UTMShines**
- eLPPT (Key Amal Indicators)
- **UTM Institutional DNA**
- Resident Entrepreneur
- Industrial & Innovation Fellows
- Collaboration with Top Universities



3

## Lifelong Learners

- UTMSPACE
- MOOCs
  - ✓ Digital Electronics
  - ✓ Highway Engineering
  - ✓ Research Methods in Education
  - ✓ Data Structure & Algorithms
  - ✓ Mechanical & Electrical Works Measurement
  - ✓ Web-based Multimedia Development
  - ✓ Web Programming
- Professorial Lectures
- Public Lectures



4

## Quality TVET Graduates

- UTM-MIT BLOSSOMS
- MOOCS
- Community Engagement
  - ✓ STEM Projects
  - ✓ Transfer of Technology
- UTM Faculty of Education (BSc Physics, BSc Chemistry, BSc Ed Technology, BSc Technical & Vocational Education)



5

## Financial Sustainability

- UTM Financial Sustainability Initiative
- **Endowment**
- Scholar's Inn
- Ecotourism
- Energy Management
- Unlocking of Assets



# Alignment of 10 PPPM Shifts with UTM Initiatives



## Empowered Governance

- **Autonomous Status**
- Self-Accreditation Status
- Consensus, Inclusiveness & Engagement Across All Levels
- QRiM
- Risk Management Framework



## Innovation Ecosystem

- Embedded in **UTM Tagline (innovative • entrepreneurial • global)**
- Sustainable Campus Initiatives
- NALI (MOOCs, UTM-MIT BLOSSOMS, Edutainment, OCW)
- Smart Digital Campus (GSMS, RADIS, BIS, UTMFin, UTMHRFin)
- Skudai Innovation Valley
- Student Innovation Centre



## Global Prominence

- World University Rankings (QS, THE BRICS, Webometrics, UI GreenMetric, Global University Partnership on Environment for Sustainability)
- Global Engagement with Top Universities
- International Industrial Collaboration
- International Research Centres
- Global Collaboration (Europe, USA, South America, ASEAN, Czech Republic, Middle East, Central Africa, Japan)
- GOP, UPF, International Membership



## Globalised Online Learning

- **MyLinE**
- **NALI**
  - ✓ MOOCs,
  - ✓ UTM-MIT BLOSSOMS
  - ✓ Open Courseware
  - ✓ Edutainment



## Transformed HE Delivery

- UTM Human Capital Blueprint (2013-2020)
- UTMLead
- Smart Digital Campus (GSMS, RADIS, BIS, UTMFin)
- **NewLens**

# Financial Management : Understanding The Figure And Optimizing The Resources





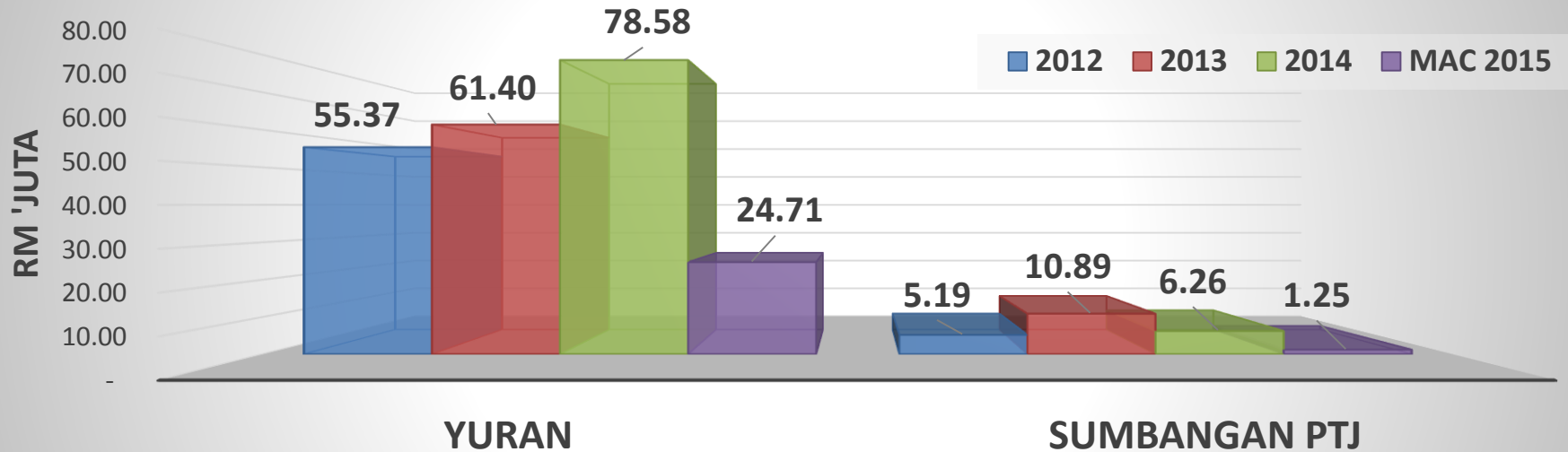
# KEDUDUKAN SUMBER MENGURUS 2014-2016 (RM ' JUTA)

	<b>2014</b>	<b>2015</b>	<b>2016*</b>
<b>1</b> Geran Kerajaan	614.9	485.7	600.0
<b>2</b> Sumber Dalaman	95.6	156.4	120.0
Hasil Yuran			
Hasil Sewaan			
Hasil Keuntungan Pelaburan			
Hasil Aktiviti Penjanaan FS			
<b><u>Jumlah Keseluruhan</u></b>	<b><u>710.5</u></b>	<b><u>642.1</u></b>	<b><u>720.0</u></b>

Peranan semua PTJ bagi melaksanakan inisiatif Financial Sustainability

\*\* **ANGGARAN**

## Trend Hasil Yuran & Sumbangan Program Eksekutif Tahun 2012-Mac 2015 (RM 'Juta)



PENYUMBANG	2012	2013	2014	MAC 2015	JUMLAH
SPS	-	1.44	-	-	<b>1.44</b>
UTM AIS	1.08	1.36	0.64	0.12	<b>3.19</b>
UTM IBS	3.30	3.56	2.76	0.56	<b>10.18</b>
UTM RAZAK SCHOOL	0.82	1.30	1.45	0.39	<b>3.96</b>
UTM SPACE	-	2.30	-	-	<b>2.30</b>
MJIIT	-	0.93	1.40	0.19	<b>2.52</b>
<b>JUMLAH</b>	<b>5.19</b>	<b>10.89</b>	<b>6.26</b>	<b>1.25</b>	<b>23.59</b>



# AGIHAN BAJET MENGURUS 2015

Semua belanja operasi  
diperingkat PTJ

Alatan Pejabat

4

**RM19 j**

5

**RM1 j**

**OPERASI PTJ – 3%**

**ASET– 0.2%**

3

**PROGRAM KHAS – 7%**

**RM45 j**

- Ganjaran Kontrak
- Biasiswa Pelajar
- Operasi COE/RA
- *Ranking / GOP*
- Aktiviti Pelajar

2

**OVERHEAD – 21%**

**RM137 j**

- Utiliti
- Penyelenggaraan Kampus
- Pembangunan Staf (Latihan)
- Manfaat Staf (Perubatan)
- Fasiliti IT
- Buku

1

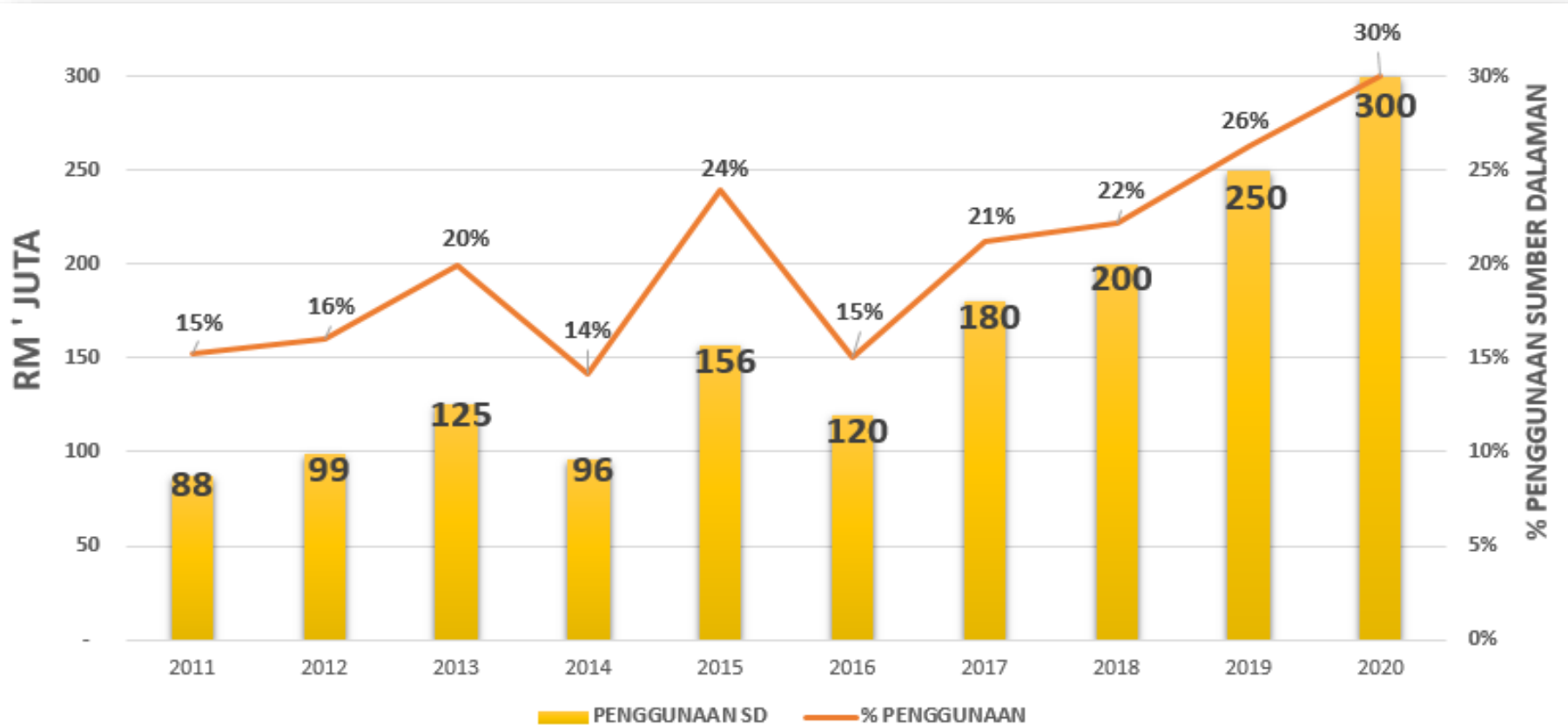
**EMOLUMEN – 69%**

**RM452 j**

- Staf Tetap : RM 399 juta
- Staf Kontrak : RM53 juta

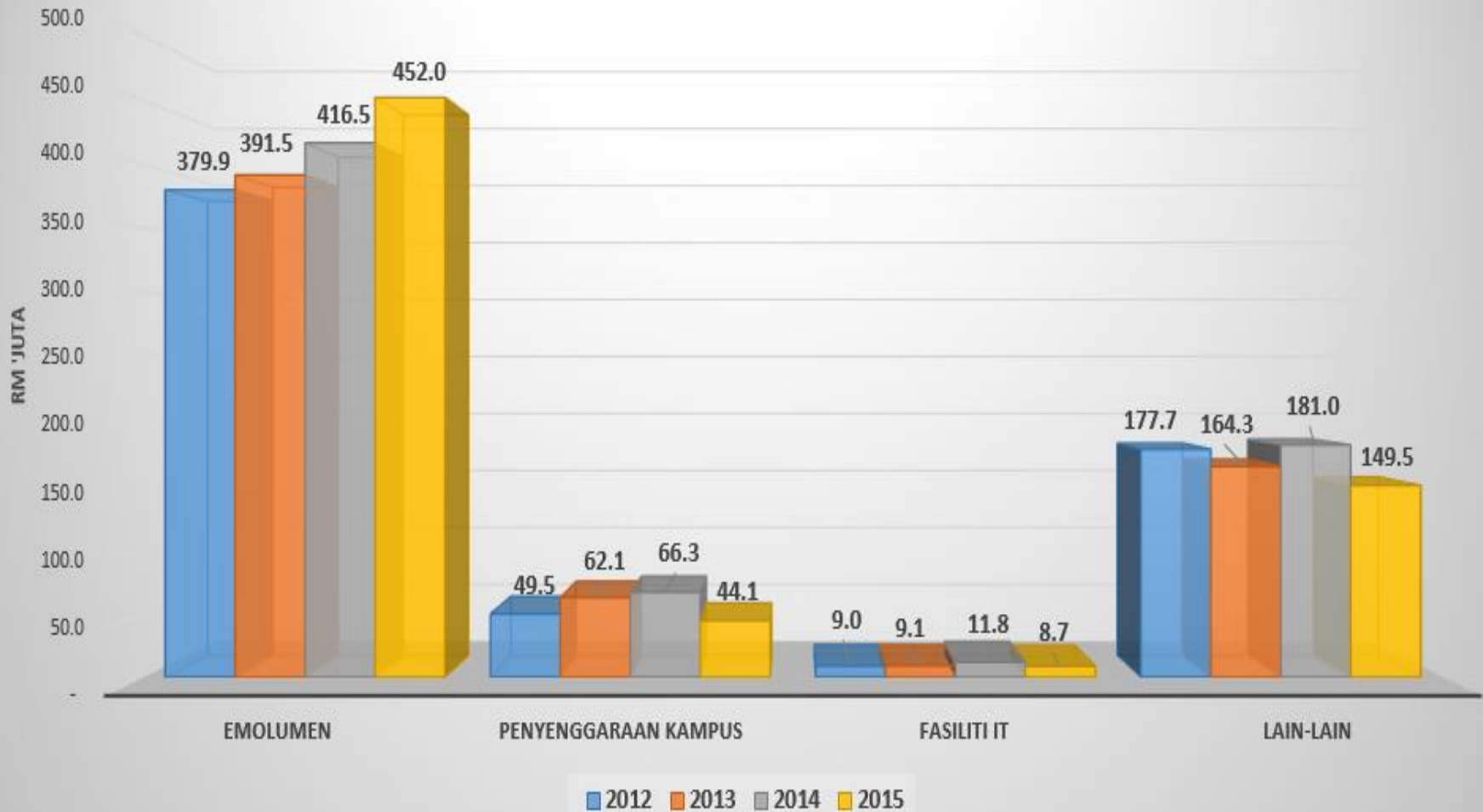
**Total Bajet  
Mengurus 2015  
RM 654 Juta**

## Trend Penggunaan Sumber Dalam (SD) Untuk Perbelanjaan Mengurus Tahun 2011-2020 (RM ' Juta)



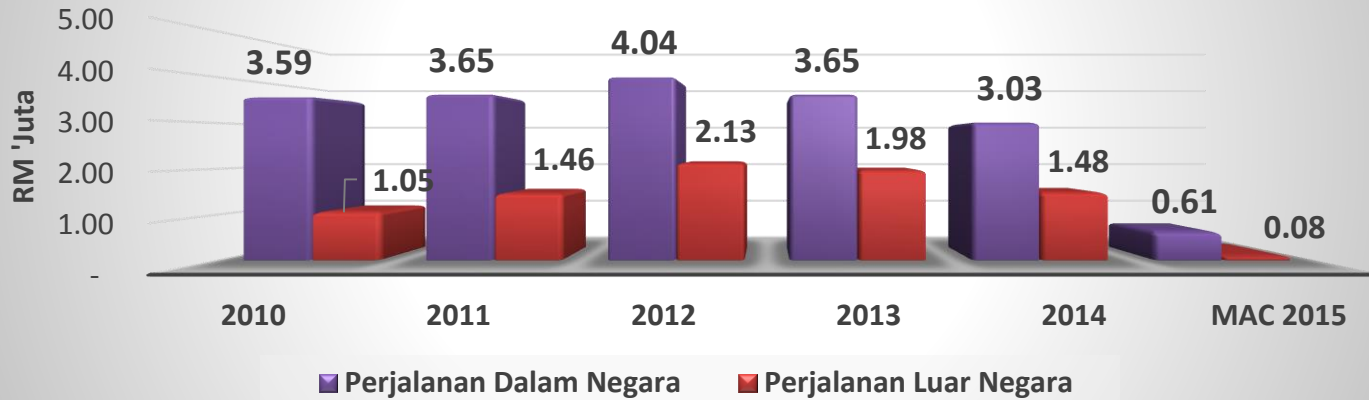
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PENGUNAAN SD	88	99	125	96	156	120	180	200	250	300
PERBELANJAAN	575	616	627	676	654	800	850	900	950	1,000
% PENGUNAAN	15%	16%	20%	14%	24%	15%	21%	22%	26%	30%

## Trend Perbelanjaan Mengurus Mengikut Kategori Tahun 2012-2015 (RM 'Juta)

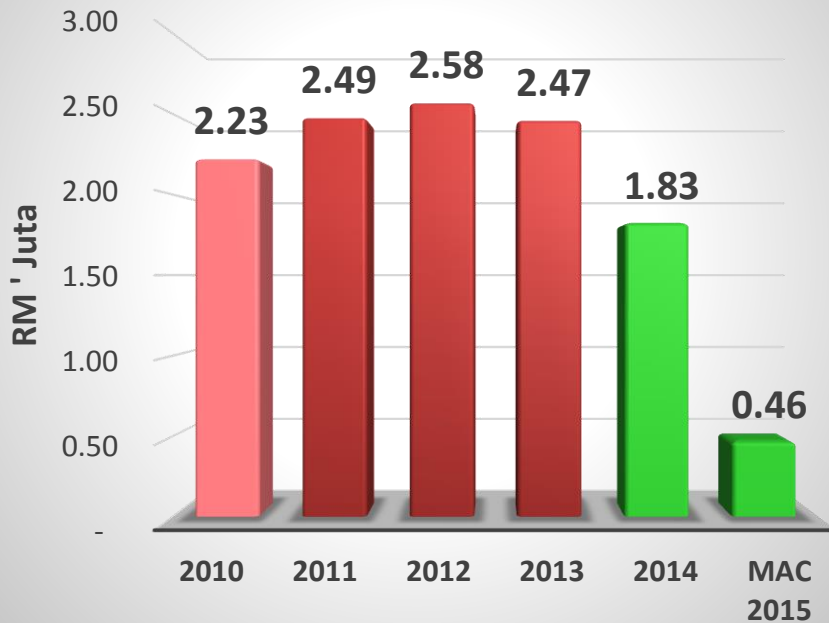




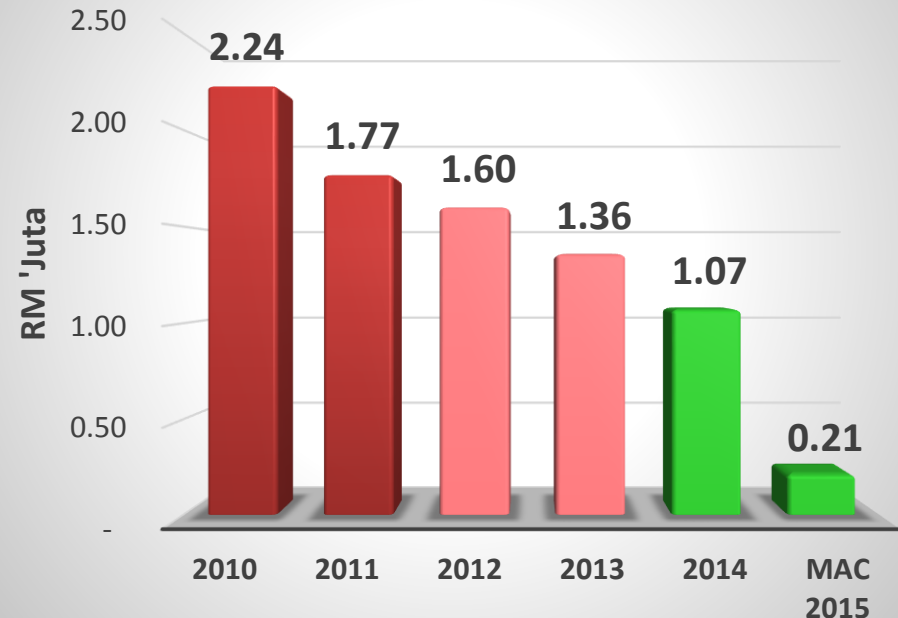
## Belanja Perjalanan Dalam & Luar Negara Tahun 2010-Mac 2015 (RM'Juta)



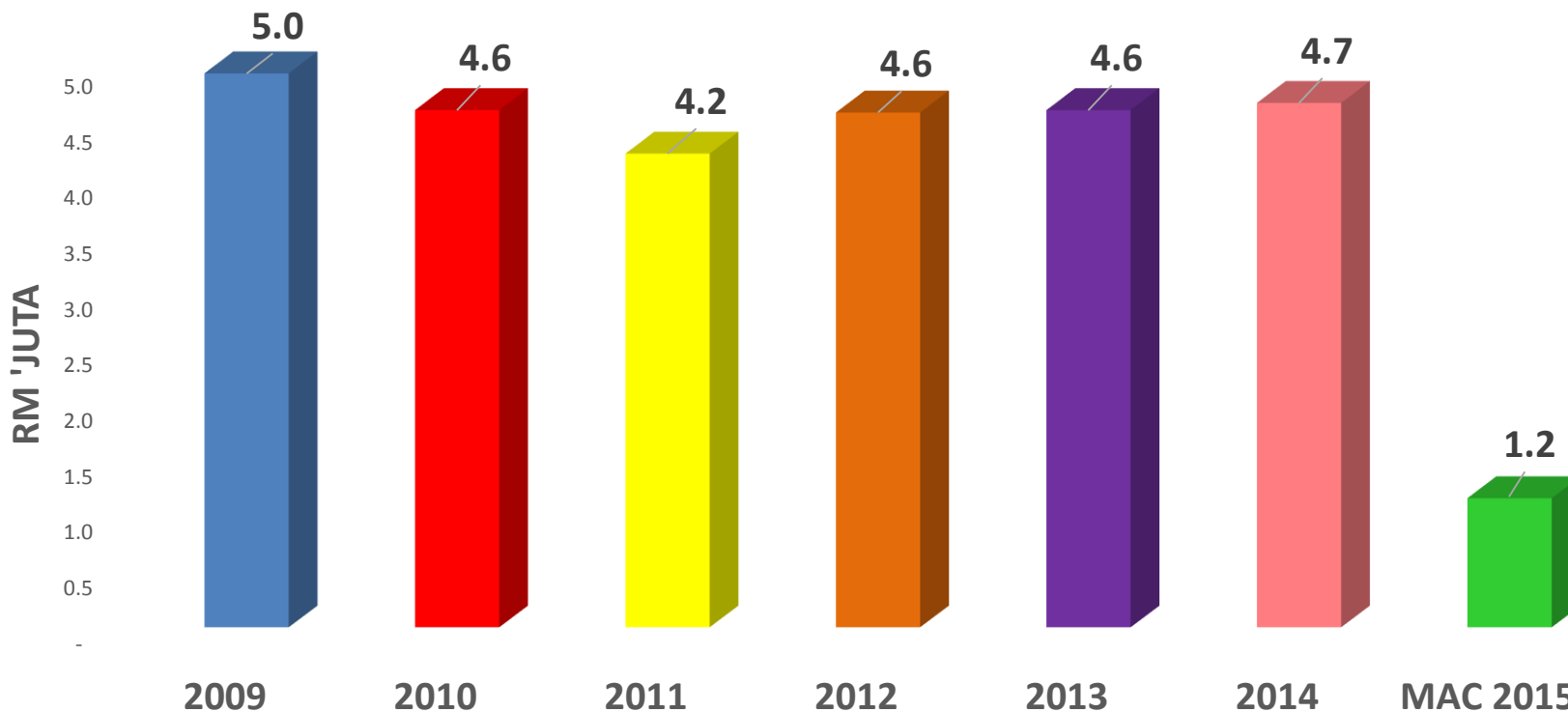
## Belanja Keraian (makan) Tahun 2010-Mac 2015 (RM 'Juta)



## Belanja Alat Tulis/Toner/Kertas Tahun 2010-Mac 2015 (RM 'Juta)



## Trend Perbelanjaan Elaun Lebih Masa Tahun 2009 - Mac 2015 (RM 'Juta)



Perkara	2009	2010	2011	2012	2013	2014	MAC 2015
Staf Am	3.2	2.8	2.5	3.0	2.7	3.3	0.9
Pemandu	1.0	1.1	1.0	0.9	1.0	0.7	0.1
Pengawal Keselamatan	0.8	0.8	0.7	0.7	0.9	0.7	0.2
<b>Jumlah</b>	<b>5.0</b>	<b>4.6</b>	<b>4.2</b>	<b>4.6</b>	<b>4.6</b>	<b>4.7</b>	<b>1.2</b>

# Kemudahan WiFi di UTM



**1 Gbps (JB)  
400 Mbps (KL)**

**Kelajuan Akses (ISP) – Kolej kediaman dan  
Bangunan Pentadbiran & Akademik**

**RM20 Juta**

**Kos naiktaraf rangkaian wifi di UTM JB & KL  
(2013-2016) termasuk *back-up* WiFi**

**8 ribu Staf  
18 ribu pelajar**

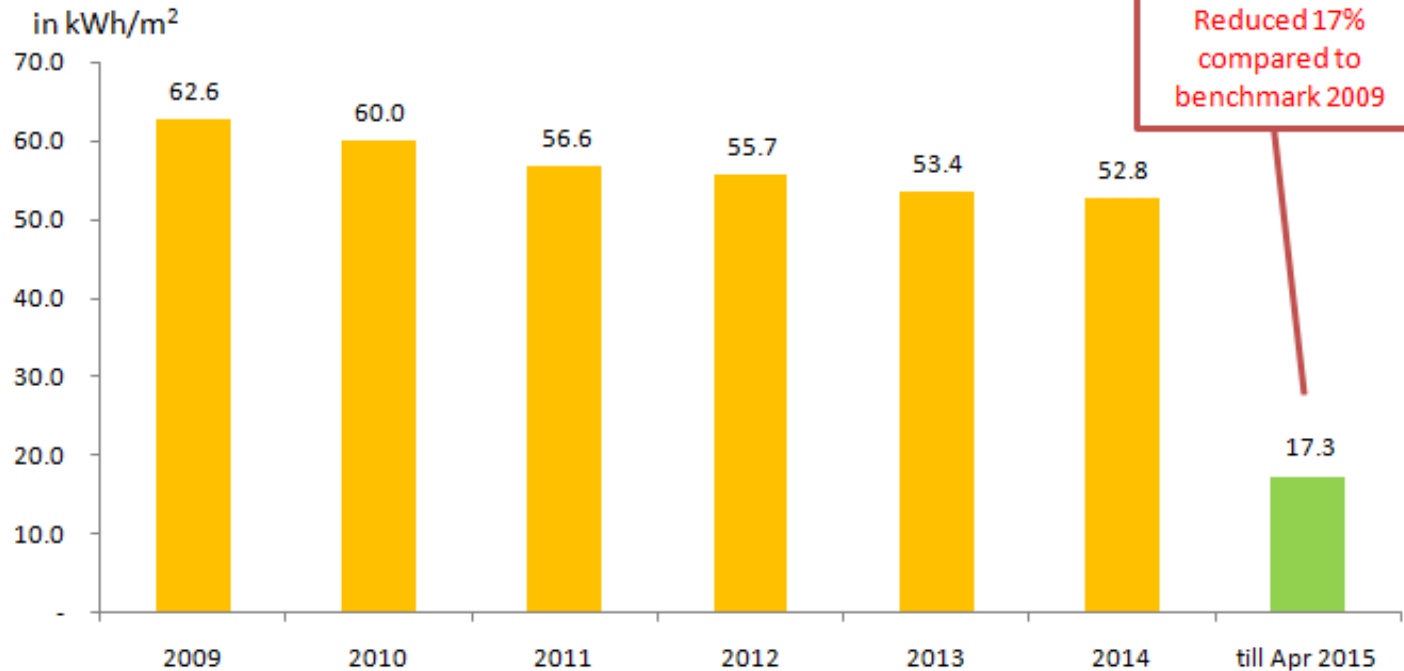
**Pengguna kemudahan wifi di UTM JB & KL**

**Liputan  
(*coverage*)**

- a) **Bangunan Pentadbiran Akademik JB & KL**
- b) **Kolej Kediaman : semua kolej UTM JB (10 buah) dan  
KSJ (Hotspot disemua aras – 8 aras)**



# UTM Energy Efficiency Index performance



Year	RM saved after tariff correction	* Energy saved vs 2009	Total RM saved	Total kWh saved
2010	0	RM 754,605	RM 754,605	2,207,888
2011	RM 259,972	RM 1,673,491	RM 1,673,491	4,972,428
2012	RM 878,283	RM 1,756,705	RM 2,634,988	5,225,725
2013	RM 751,681	RM 2,578,331	RM 3,330,013	7,804,048
2014	RM 1,008,520	RM 3,207,738	RM 4,216,259	9,668,124
Total	RM 2,898,458	RM 9,970,872	RM12,869,331	29,878,213

\* (not include RMK9 new building)

# Our saving so far as of Dec 2014

**RM**  
**\$12,869,331**  
**saved**

**Saved**  
**21,732.69 ton**  
**CO<sub>2</sub> kg emissions**

**29,878,213**  
**kWh saved**

Peruntukan dan Perbelanjaan Bajet Pembangunan  
Tahun 2006-April 2015 (RM ' Juta)

BAJET	PERUNTUKAN TAHUNAN	PERUNTUKAN DITERIMA	JUMLAH PERBELANJAAN	BAKI
RMK-9	665	705	576	129
RMK-10	453	488	435	53
PFI	90	90	83	7
<b>JUMLAH</b>	<b><u>1,208</u></b>	<b><u>1,283</u></b>	<b><u>1,094</u></b>	<b><u>189</u></b>



**Peruntukan dan Perbelanjaan Untuk MJIIIT  
Tahun 2008-April 2015 (RM ' Juta)**

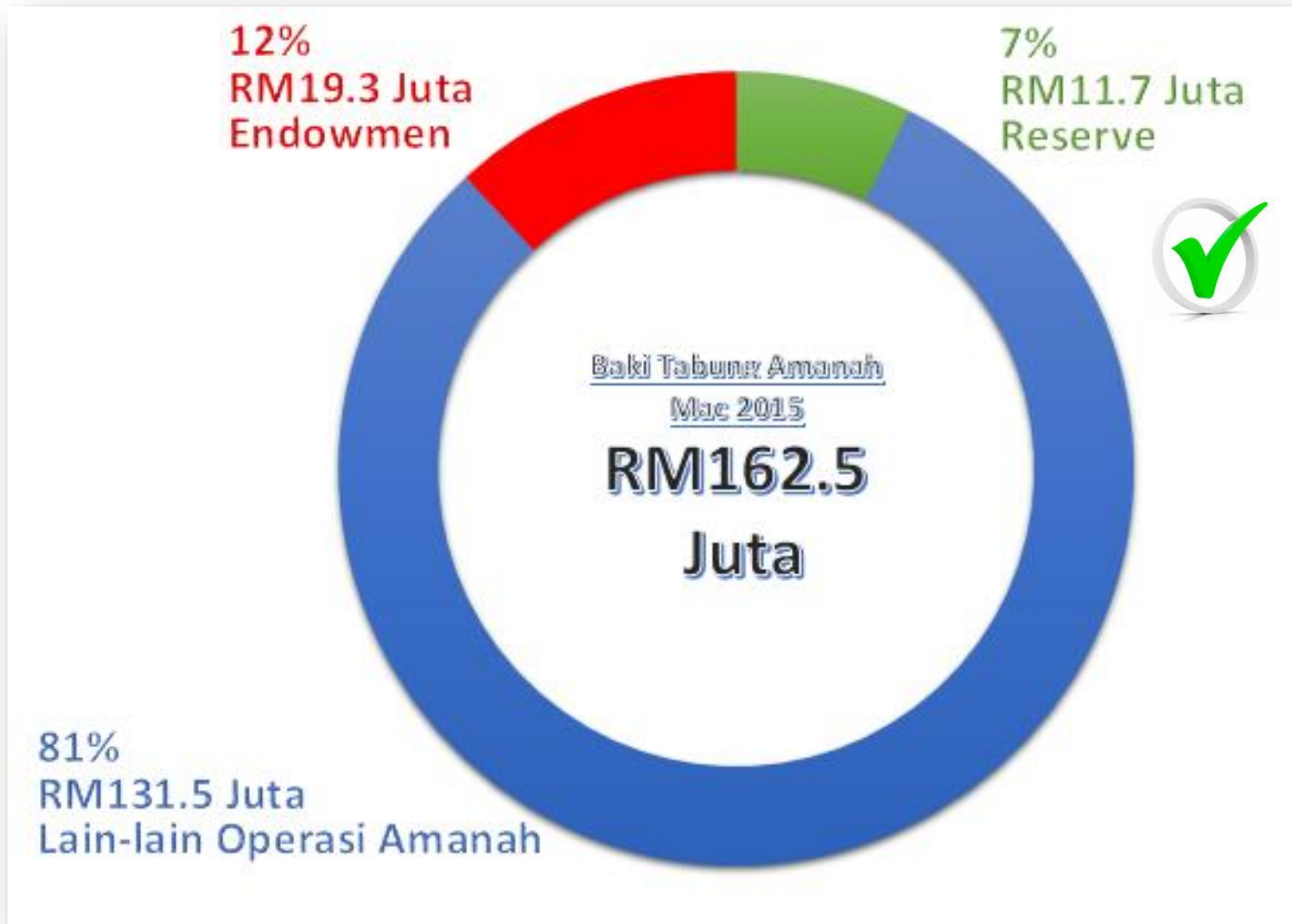
<b>Perkara</b>	<b>Peruntukan Diterima</b>	<b>Belanja</b>	<b>Baki</b>
Peralatan MJIIIT (RMK-10)	38.06	35.37	2.69
Program Fellowship MJIIIT (RMK-10)	17.00	11.78	5.22
Peralatan IT MJIIIT	11.70	7.90	3.80
<b>Jumlah</b>	<b><u>66.76</u></b>	<b><u>55.05</u></b>	<b><u>11.71</u></b>

\* Nota : Siling peruntukan

**Peruntukan dan Perbelanjaan Untuk Peralatan  
Tahun 2008-April 2015 (RM ' Juta)**

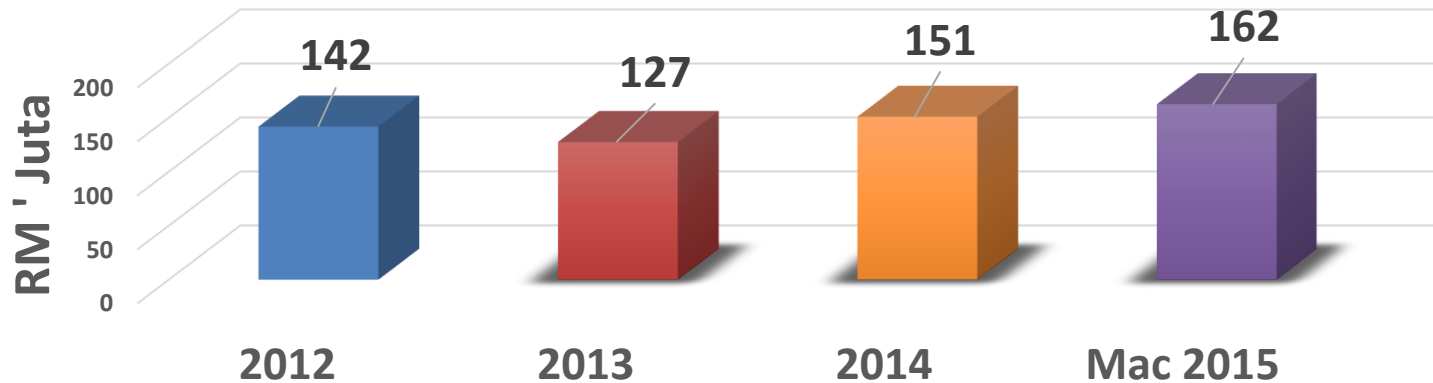
<b>Perkara</b>	<b>Peruntukan</b>	<b>Belanja</b>	<b>Baki</b>
Peralatan PTJ (RMK-9)	18.00	17.34	0.66
Peralatan MJIIT (RMK-10)	38.06	35.37	2.69
Peralatan IT MJIIT (RMK-10)	11.70	7.90	3.80
Peralatan Asas Makmal Pengajaran & Penyelidikan Bagi Bangunan Baru	100.00	20.43	79.57
Peralatan Bagi Penggantian Peralatan Kejuruteraan Usang	29.00	13.13	15.87
Peningkatan Infrastruktur E-Kampus	20.50	2.52	17.98
<b>JUMLAH</b>	<b>217.26</b>	<b>96.69</b>	<b>120.57</b>

# Baki Tabung Amanah Pada Mac 2015

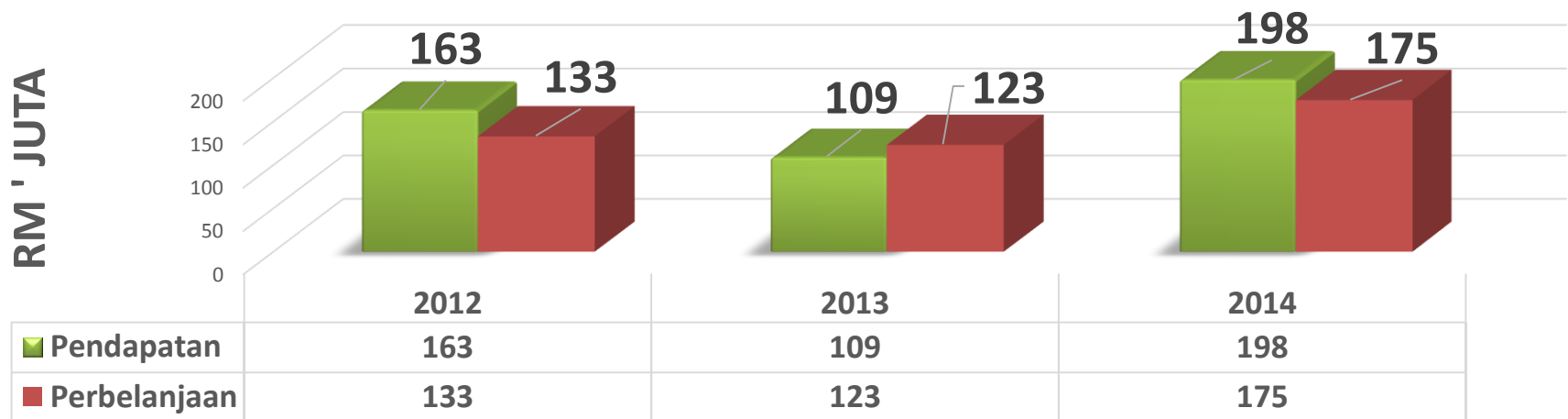




## Trend Baki Tabung Bajet Amanah Tahun 2012 Hingga Mac 2015 (RM 'Juta)



## Trend Pendapatan & Belanja Tabung Bajet Amanah Tahun 2012 Hingga 2014 (RM 'Juta)



# SELF FINANCING

**Perpustakaan Universiti  
( RM 1 Juta )**



**Buku & Data Online : RM 808 ribu**



**Pembangunan Staf : RM 34 ribu**



**Peralatan IT & Lain-lain : RM 165 ribu**

**Pusat Kesihatan Universiti  
( RM 2.4 Juta )**



**Bekalan Ubat : RM 600 ribu**



**Kenderaan : RM 383 ribu**



**Alat Lengkapan : RM 398 ribu**

# Pusat Kesihatan Universiti



Jumlah kos  
Ubahsuai tahun  
2011-Mac 2015 :  
**RM1.4 Juta**







# Pusat Kerjaya UTM

**RM715**  
**Ribu**

**Kos**  
**Naiktaraf**

**Sumber Kewangan : Tabung  
Penyelenggaraan Kolej Skudai**





# STUDENT ACCOMODATION COMPLEX

innovative • entrepreneurial • global





## CADANGAN PEMBANGUNAN SEBUAH HOSPITAL PAKAR DI DALAM KAMPUS UNIVERSITI TEKNOLOGI MALAYSIA, SKUDAI, JOHOR DARUL TAKZIM.



# PELABURAN PROJEK HARTANAH

## ASRAMA JB

- Pinjaman KWSP 1 : RM160 Juta
- Tempoh : 1999-2024
- Bayaran balik pinjaman melalui hasil yuran asrama
- Hasil yuran asrama (Purata RM18 juta setahun)

## STUDENT ACCOMODATION COMPLEX

- Pinjaman KWSP 2 : RM180 Juta
- Tempoh : 2015-2030
- Bayaran balik pinjaman melalui hasil sewaan bilik dan lot komersial
- Hasil sewaan (Purata RM21 juta setahun)

## HOSPITAL UTM-KPJ

- Kos keseluruhan : RM128.76 juta
- Diuruskan oleh JV Co.
- Tempoh *Sub Lease* – 30 tahun
- Modal UTM = RM13.5 juta @ Tanah 5 ekar

# Hasil Bengkel Strategik *Financial Sustainability*

## Key strategies

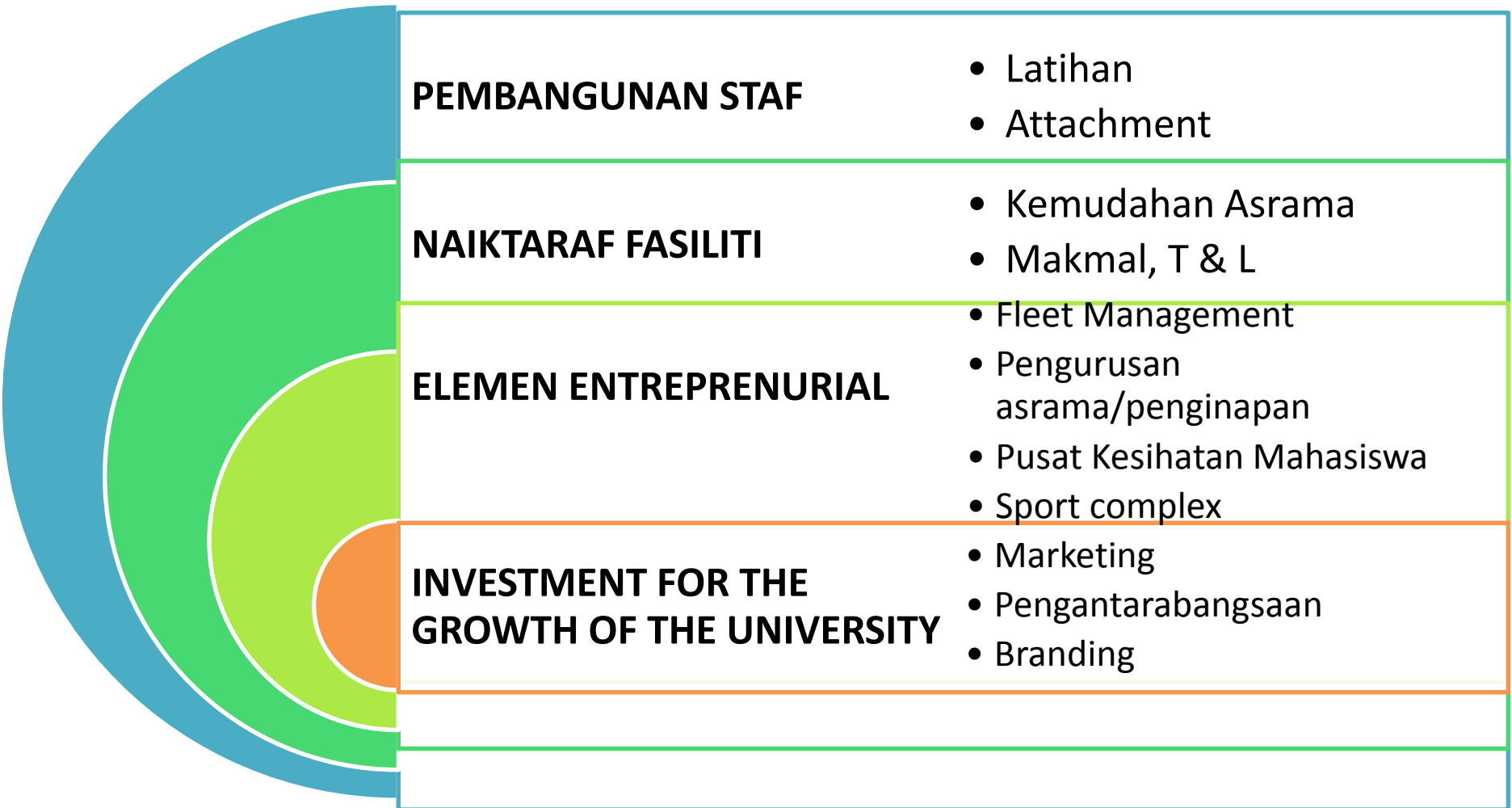
1- Align Financial Sustainability strategies and initiative to Pelan Global UTM Fasa II

2- Develop an effective structure for Financial Sustainability

3- Develop an effective progress monitoring and reporting system for Financial Sustainability.

Income Generation Key Focus Area (KFA)	No of initiative	2015 (RM 'Juta)	2016 (RM 'Juta)	2017 (RM 'Juta)
Academic Programmes	7	104	112.2	119
Medical, Hostel & others student facilities	9	24.9	27.7	28.5
Business Entities	7	16.7	30.2	32.1
Endowment	6	10.0	15.0	20.0
Consultation, Commercialization & R&D Grants	5	9.2	25.2	53.3
Asset & Land Banks	7	6.8	7.2	7.6
Human Capital Development	7	2.5	3.2	4.0
<b>Total</b>	<b>44</b>	<b>174.0</b>	<b>218.9</b>	<b>264.4</b>

# STRATEGI BAJET UNIVERSITI



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**PRUDENCE SPENDING**



**INTEGRITY/ACCOUNTABILITY**



**SHARING THE 'CAKE'**



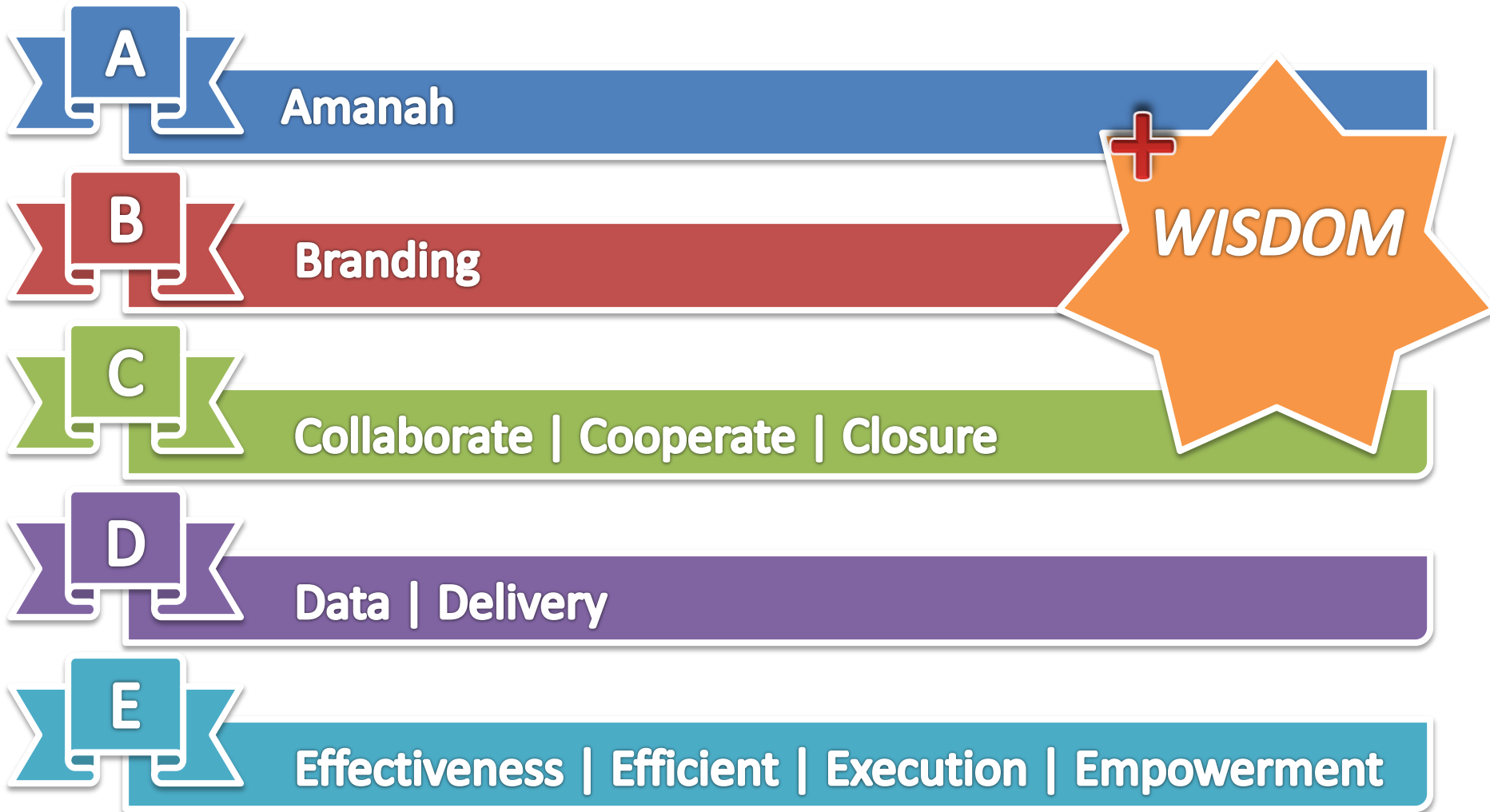
**Top 50  
Engineering &  
Technology Univ.  
in the World**

**Skudai Innovation  
Valley**

**Financially  
Sustainable**

**GAME  
CHANGER**

**UTMKL@Lifestyle**





**“ Sesungguhnya  
Allah tidak akan  
mengubah nasib  
suatu kaum  
kecuali kaum itu  
sendiri yang  
mengubah apa  
apa yang pada  
diri mereka ”**

QS 13:11









# UTM Soaring High.....







***Appreciations:***

*Puan Syarifah Alwiah Syed Alwi*

*Puan Fadzillah binti Rahman*

*En Muhammed Souffee bin Omar*

*En Ahmad Hilman*

*Dr Narina*

