



Malaysia Education Blueprint 2015-2025 (Higher Education)

Challenges in Implementation

Norhayati Mohamed, *PhD, Assoc.Prof.*
Director, Programme Management Office (PMO)
Ministry of Higher Education

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Content

1. Brief overview of Blueprint **development**
2. Current **state, vision and aspirations** for Higher Education
3. Overview of the **10 Shifts**
4. **Way forward**
5. **Challenges** in Implementation

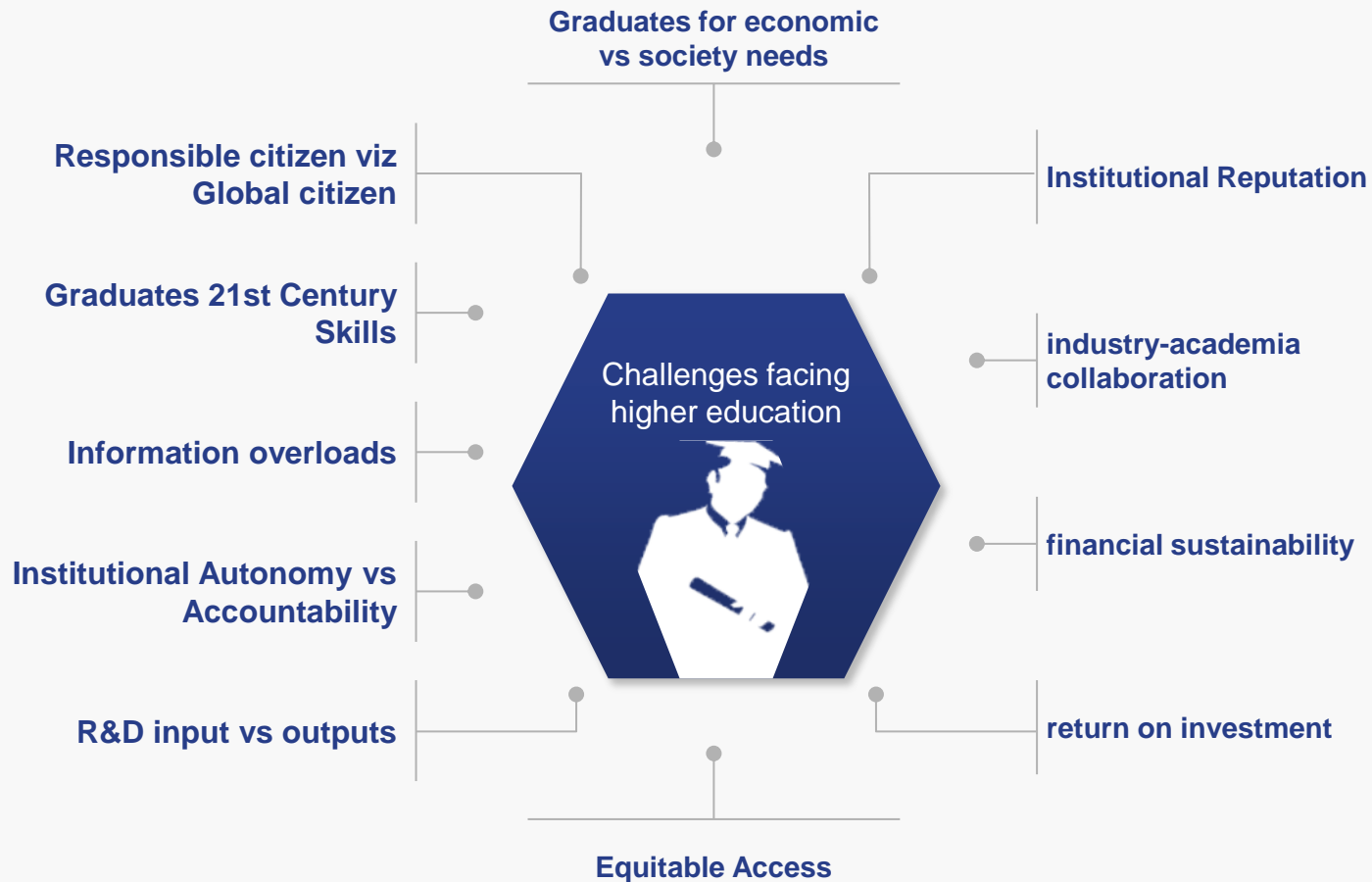


Addressing current and future Challenges:

GLOBAL
Economic crisis

GLOBAL Competition due to
GLOBALIZATION

Accelerating PACE of
CHANGE due to DIGITAL age



The Malaysia Education Blueprint (Higher Education) will be centered on 10 Shifts

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- **14** chapter writing teams
- **20** lead authors
- **42** writing team members

Sources of input for development of Malaysia Education Blueprint (Higher Education)

Blueprint developers

- **35** PSPTN review team members
- **14** chapter writing teams
- **20** lead authors
- **42** writing team members



Engaged stakeholders

- **2,300+** survey responses
- **2,300+** townhall and focused groups participants
- **16** international advisors and experts
- **14** Malaysian advisors

- **1** national survey
- **18** townhalls
- **9** focused groups

Phase I

Phase II

- **250+** stakeholder representatives

- **5+** workshops

Phase III

- **90+** HLI Chairmen, Vice-Chancellors, and Chief Executives
- **200+** HLIs represented
- **40+** industry skills councils and professional bodies
- **25** members of national education councils
- **50+** senior thought leaders and professors
- **140** districts of Parent-Teacher Association
- **20+** unions and associations
- **250+** students and alumni

- **30+** engagement sessions
- Continuous **online** engagement

>10000 stakeholders engaged with >1000 comments

External research



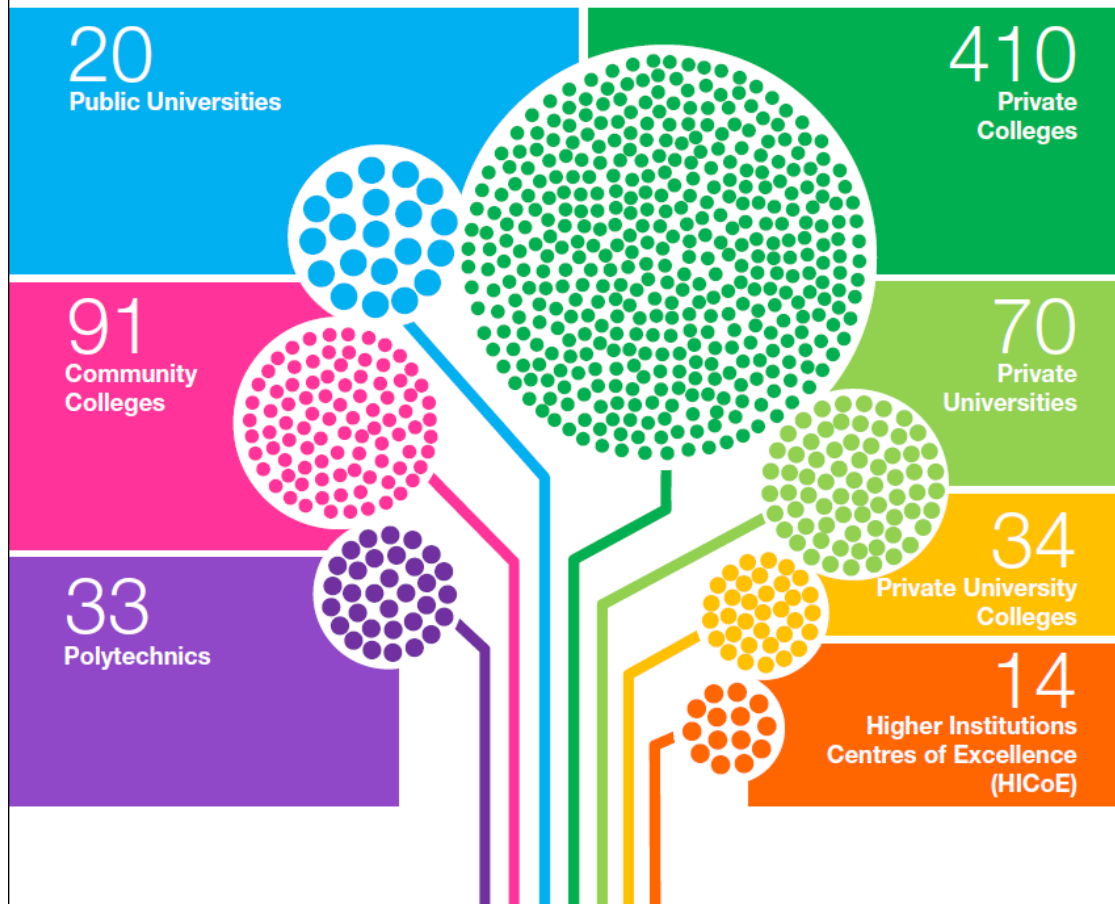
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HIGHER EDUCATION IN BRIEF

○ Each dot represents one Higher Learning Institution in Malaysia



5 Research Universities
 4 MTUN (TVET)
 11 Comprehensive Universities
 14 HICoE

67,746 Academic Staff
 (PhD 15,461 - 23%)

Enrollment (1,253,501)

Public HLIs = 618,180
 Private HLIs = 524,350
 Polytechnics = 89,503
 Community Colleges = 21,468
 Total = 1.2 mil

International students

Undergraduate level = 80,206
 Post-graduate level = 27,812
 Total = 107,838

The higher education system in Malaysia has come a long way

10 Years

Substantial
increase in
ACCESS



70% increase in total tertiary enrolment to 1.1 million students and 36% enrolment in MoE institutions (IPT, KK, Poly)



6x increase in **Bachelor** degree enrolment (1990 to 2010)



10x increase in **Master's and PhD** enrolment (1990 to 2010) – now ranked 3rd in ASEAN behind Singapore, Thailand

5 Years

Rapid
improvements in
RESEARCH



3.1x increase in **publications** from 2007-2012, **highest growth rate in the world**



4x increase in number of **citations** from 2005 to 2012



70% of publications from 2007-12 contributed by **5 Research Universities**



11% yearly growth in number of **patents** from 2007 to 2011 – Malaysia was 28th in the world in 2011



RM 1.25 billion revenues generated from RUs as **solution provider** to industries, agencies, NGOs (2007-2012)

Malaysian universities ranked in top 200 in several subject areas

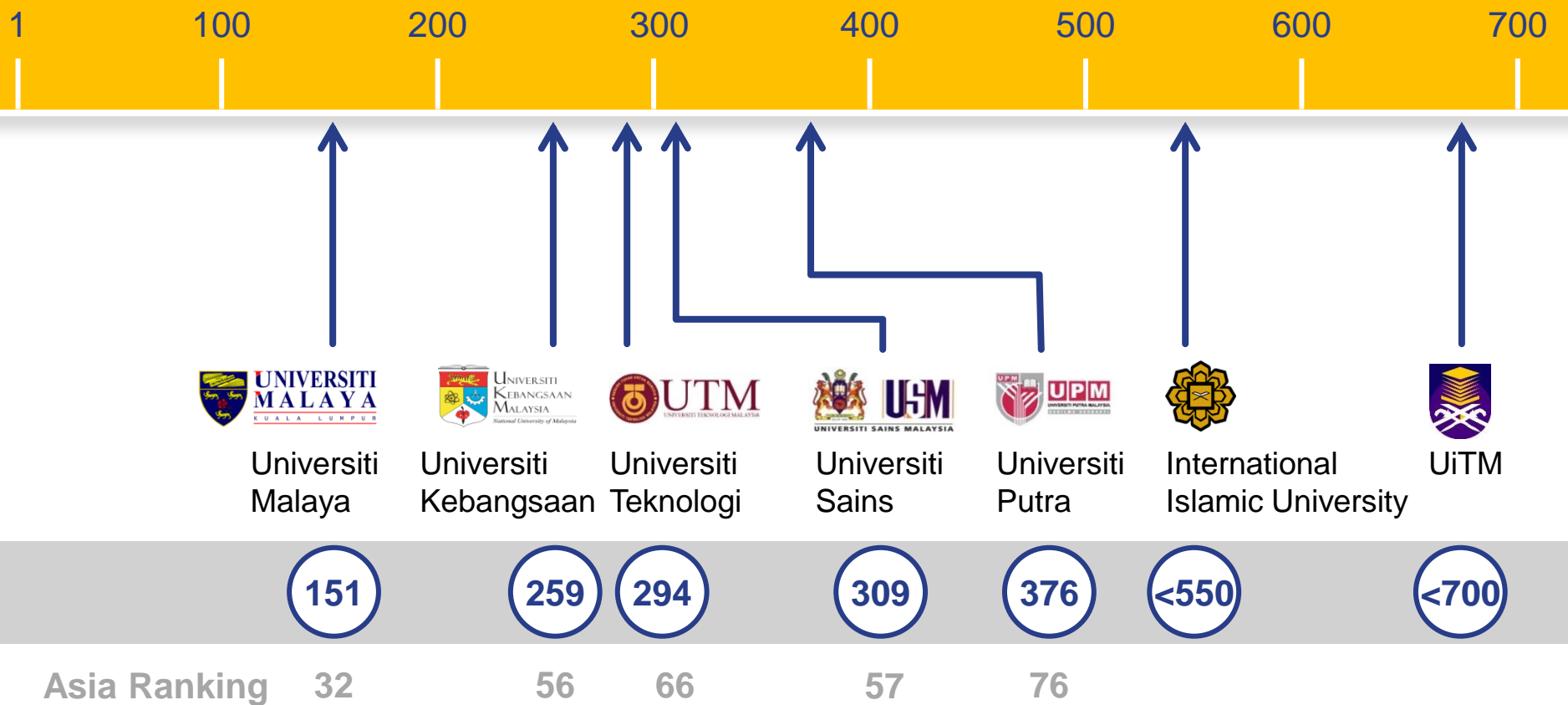
Modern Languages	IIUM		UM	
Computer Science & Information Systems	UTM UPM		UM USM	
Engineering - Chemical	UPM UKM UTP	UTM	UM USM	
Engineering - Civil & Structural	UM	UKM UPM UTM	USM	
Engineering - Electrical & Electronics		UKM UPM USM UTM	UM	
Engineering – Mechanical, A&M ¹		UKM UPM UTM	UM USM	
Agriculture & Forestry			UPM	
Medicine	UM			
Pharmacy & Pharmacology	UKM UPM	UM	USM	
Chemistry		USM		
Environmental Sciences	UM	UPM		USM=28
Geography	UKM UM			
Materials Science	USM UM			
Mathematics		UKM		
Communication & Media Studies	UPM	USM		
Economics & Econometrics	UKM USM UM	UPM		
Education		USM	UPM UKM UM	
Law		UKM UM		
Politics & International Studies			UKM	
	Top 151-200	Top 101-150	Top 51-100	Top 50

- Top 50 in 1 subject area
- 51-100 in 10 subject areas
- 101-150 in 5 subject areas
- 151-200 in 3 subject areas

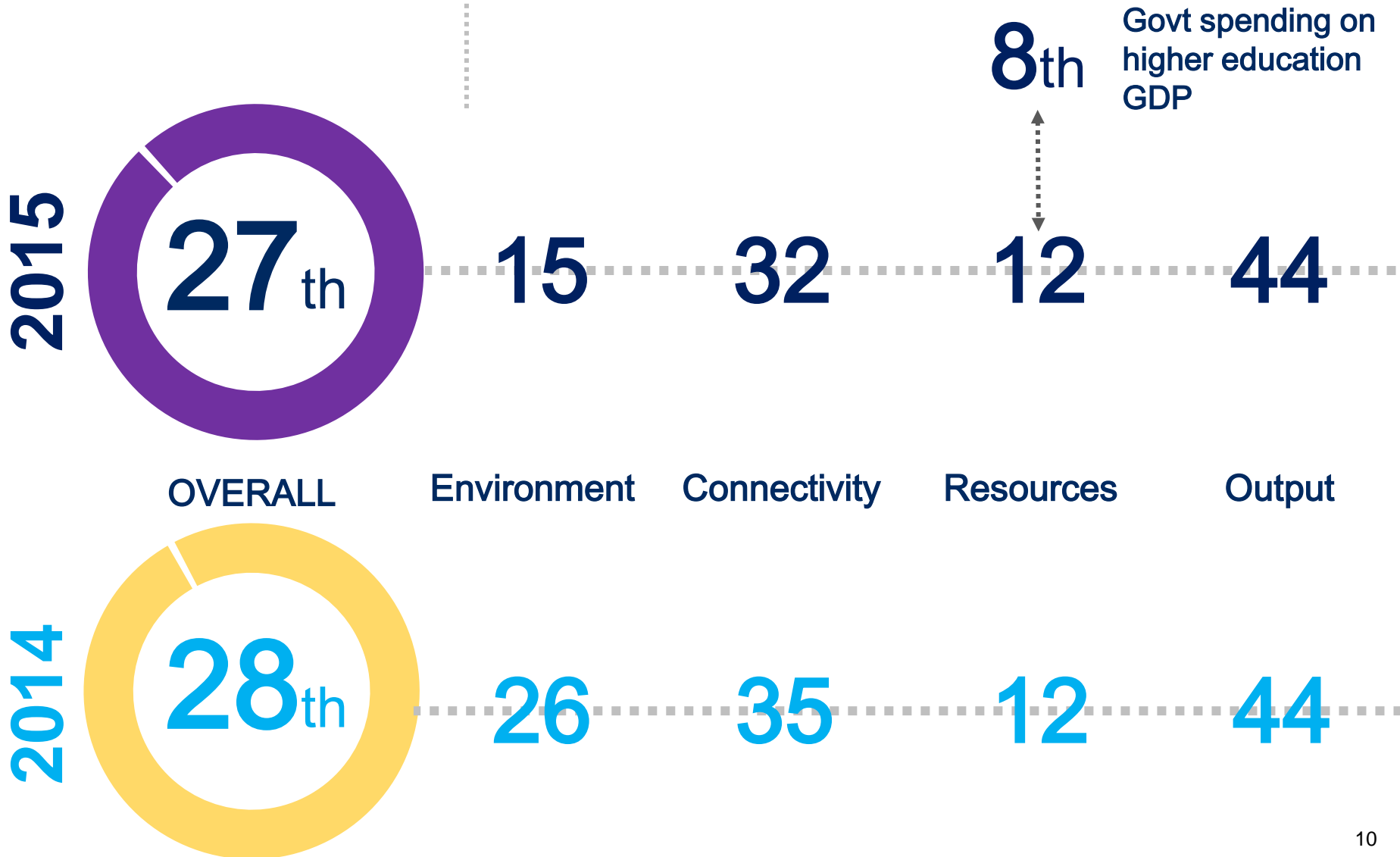
¹ Aeronautical & Manufacturing

SOURCE: QS World University Rankings by Subjects 2014

Malaysian Universities Global Ranking 2014



Improvements U21 Rankings



OUR ASPIRATIONS

Transformation
in HE Landscape

The MEB (HE) sets out clear system and student aspirations

System aspirations



Access



Quality



Equity



Unity



Efficiency

Student aspirations



Ethics &
Spirituality



Leadership
Skills



National
Identity



Language
Proficiency



Thinking
Skills



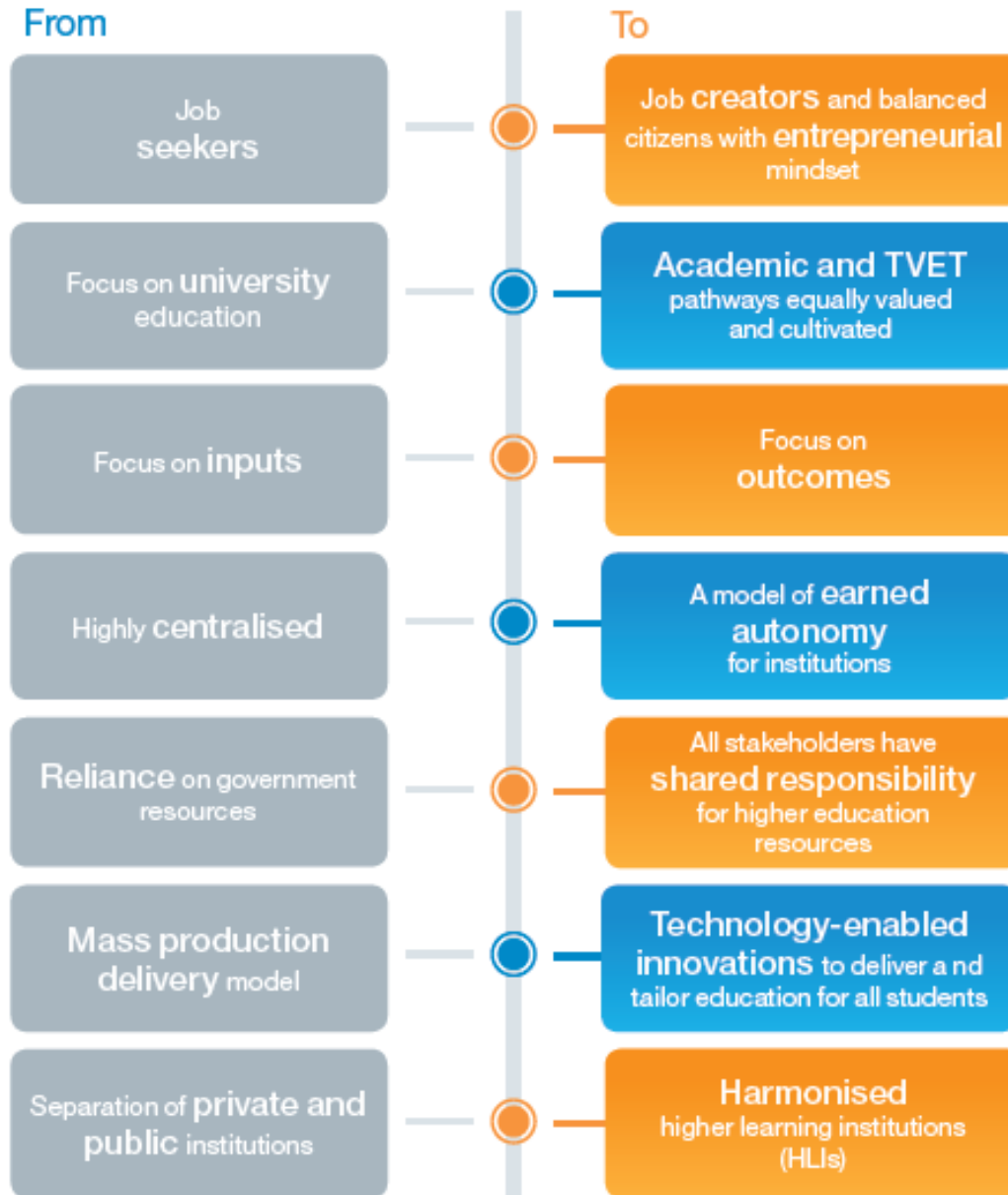
Knowledge

AKHLAK
(Ethics and Morality)

BALANCE

ILMU
(Knowledge and Skills)

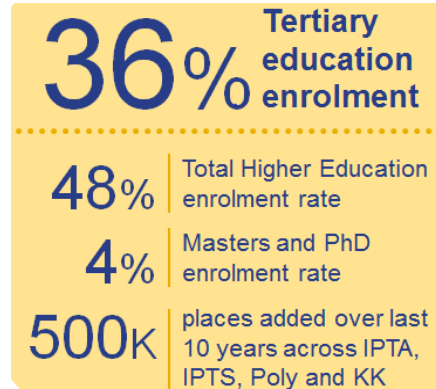
The new higher education system – major changes in a way it operates





SYSTEM ASPIRATION

CURRENT PERFORMANCE

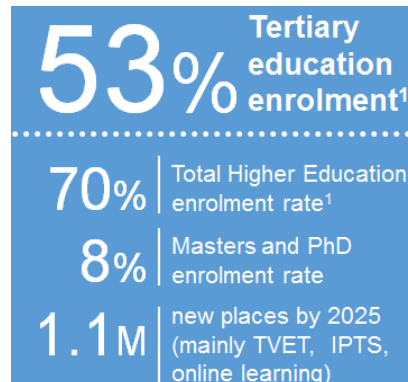


Access



Quality

ASPIRATION



SYSTEM ASPIRATION

CURRENT PERFORMANCE

No data
currently available to
comprehensively
assess socio-
economic equity

No method
commonly accepted
to measure unity

RM20.7k
Government spending¹ per
student in public institutions

44th | out of 50 countries in
U21 outputs² ranking

12th | out of 50 countries in
U21 ranking on
resources committed to
Higher Education

Equity

Unity

Efficiency

ASPIRATION

Students from
disadvantaged socio-
economic communities
**not under-
represented**
in enrolment
and completion

Mix of ethnicities
in HLIs are
representative
of overall population.
A new methodology will
be designed to assess
unity over time

No increase
in Government spending per
student in public institutions

Top 25 | In U21 output²
ranking

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10 Shifts



Holistic, Entrepreneurial and Balanced Graduates



Integrated CGPA



Entrepreneurial Mindset



Experiential Learning



**Job
seeker**



**Job
Creator**

10 SHIFTS



Talent Excellence



Educators

(Educators)



Researchers

(Researchers)



**Institutional
leaders**

(Leaders)



**Professional
practioners**

(Practitioners)

4 career pathways



**CEO Faculty
Programme**

(CEO Faculty)

10 SHIFTS

Nation of Lifelong Learners



Wider adoption of
APEL

National credit bank/
system

Increased support/
assistance for LLL

10 SHIFTS



Quality TVET Graduates

Increase capacity,
quality and levels

Industry-
led
curriculum

New
Collaborative
Models

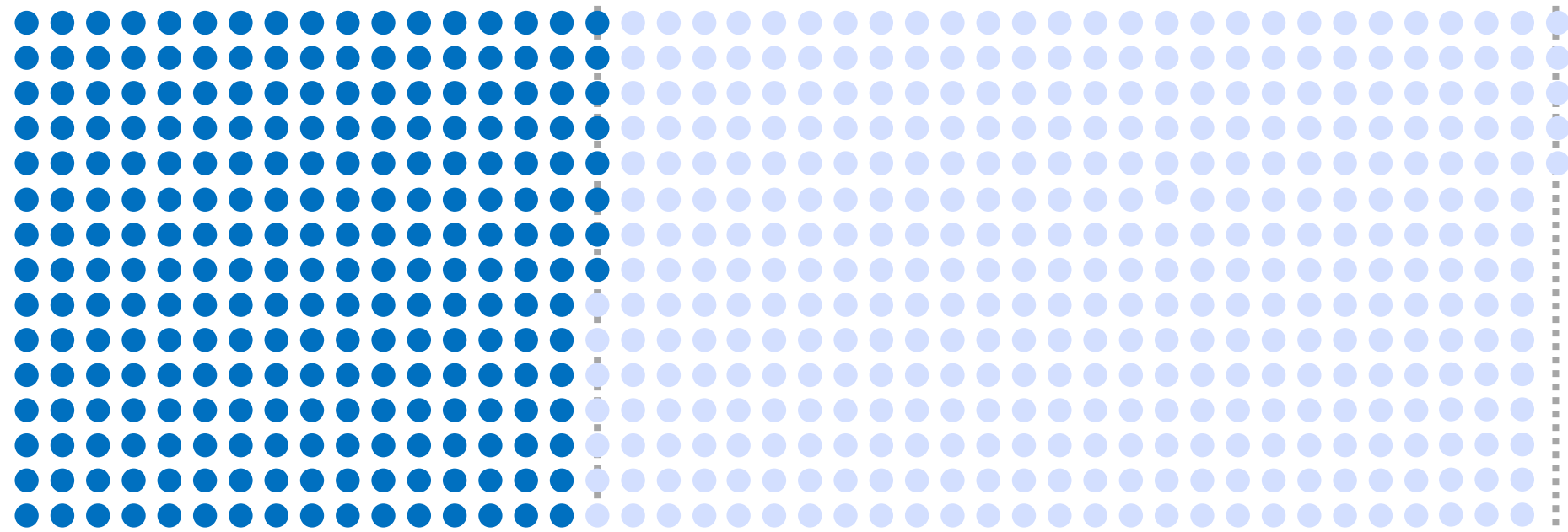
Increase
enrolment
2.5X

Enrolment 2012

250K

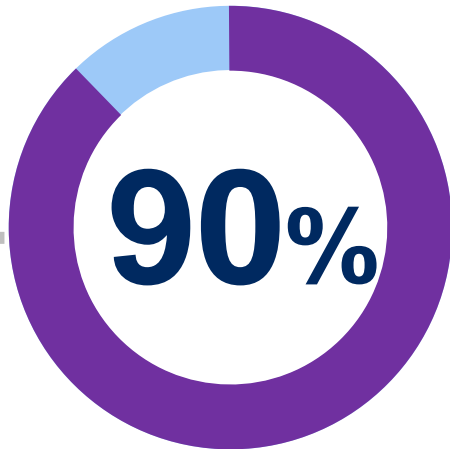
Enrolment 2025

650K

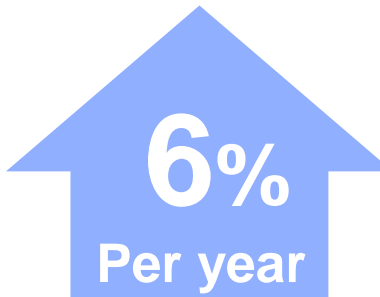


10 SHIFTS

Financial Sustainability



Government support OE in public HLIs



Increased student enrolment



Increase cost in Higher Education

10 SHIFTS

Financial Sustainability



**Income
Contingent
Loan from
PTPTN**

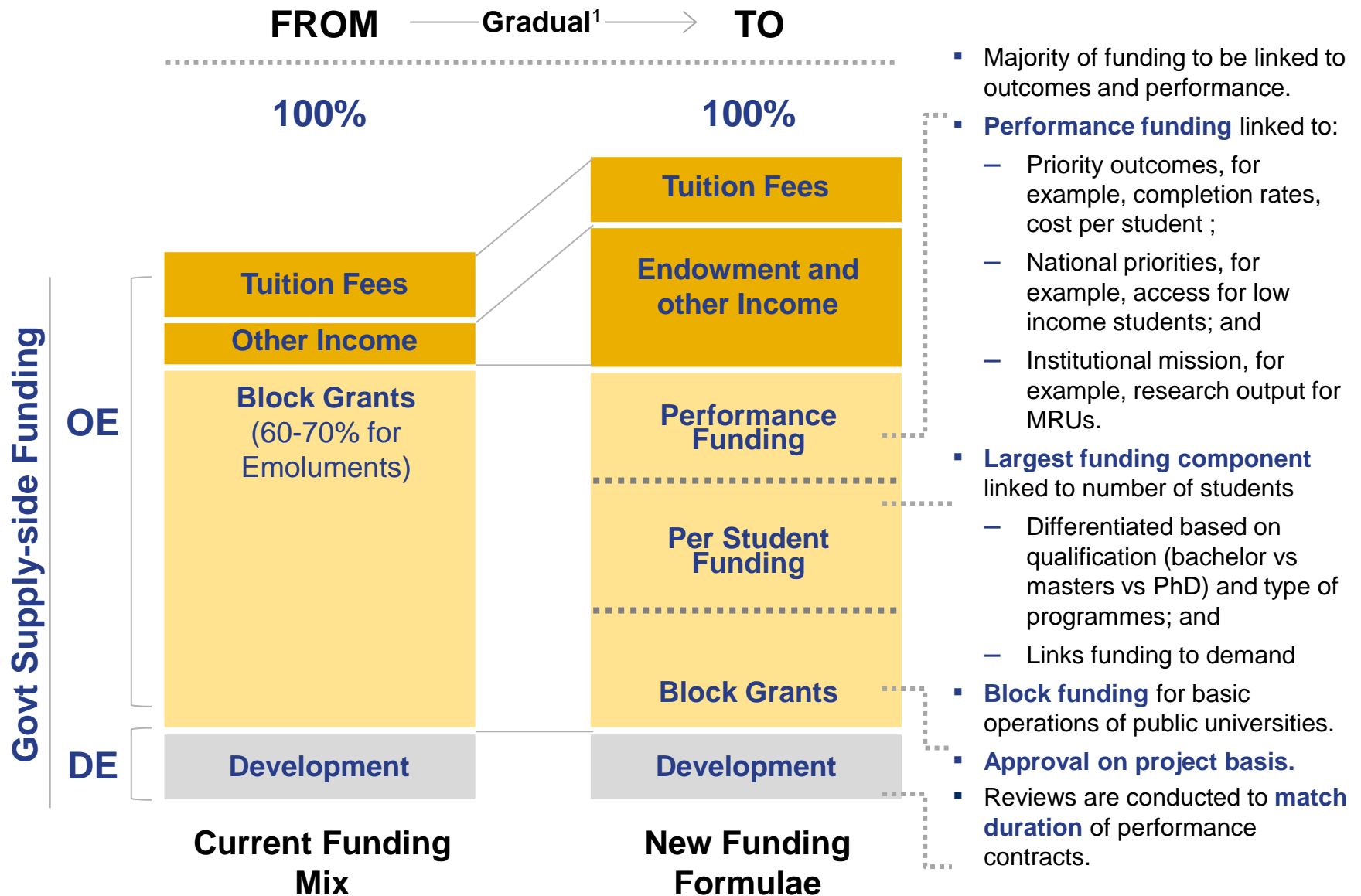


**Endowment and
Waqf funds with
matching grants**



**New Funding Formulae
based on performance**

Funding formula for public universities



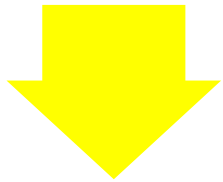
¹ The implementation of the new funding formula will be stage-gated based on the different readiness levels and types of public universities

10 SHIFTS

Empowered Governance



○ Tight Controller



○ Regulator and Policy-Maker

○ Increased Autonomy and Accountability
based on state of readiness

○ Performance Contract
5 years (3+2)

○ University Board Members
wider representations

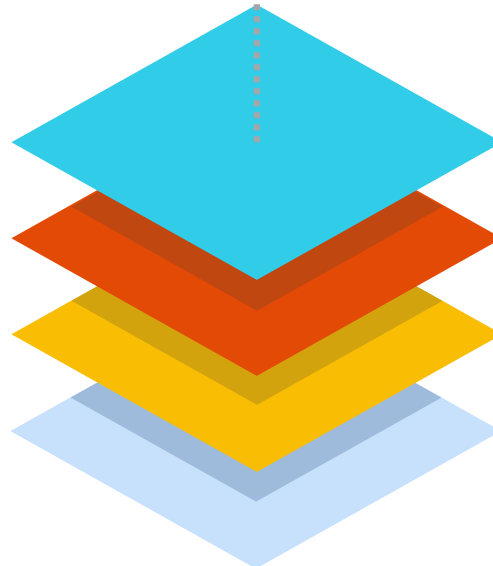
○ Based on skill-sets

○ Women

○ International Experts

10 SHIFTS

Innovation Ecosystem



Quadruple Helix

Lingkaran Empat Pihak

Government

Kerajaan

Universities

Universiti

Industry

Industri

Community

Komuniti

PPRN



Public Private Research
Network



CREST

Collaborative Research in
Engineering, Science & Technology

10 SHIFTS



Global Prominence

Education as a National Key Economic Area

ASEAN-Integrated economic community

International student hub



Enhancing the
international student
experience



Increasing
brand
visibility



Attracting
new
markets

10 SHIFTS



Globalised Online Learning

M	O	O	C	
Massive	Open	Online	Courses	
70%				20

SEP 2014

The first
involvement of
public
universities in
MOOCs



Courses using Blended
Learning

10 SHIFTS

Transformed Delivery

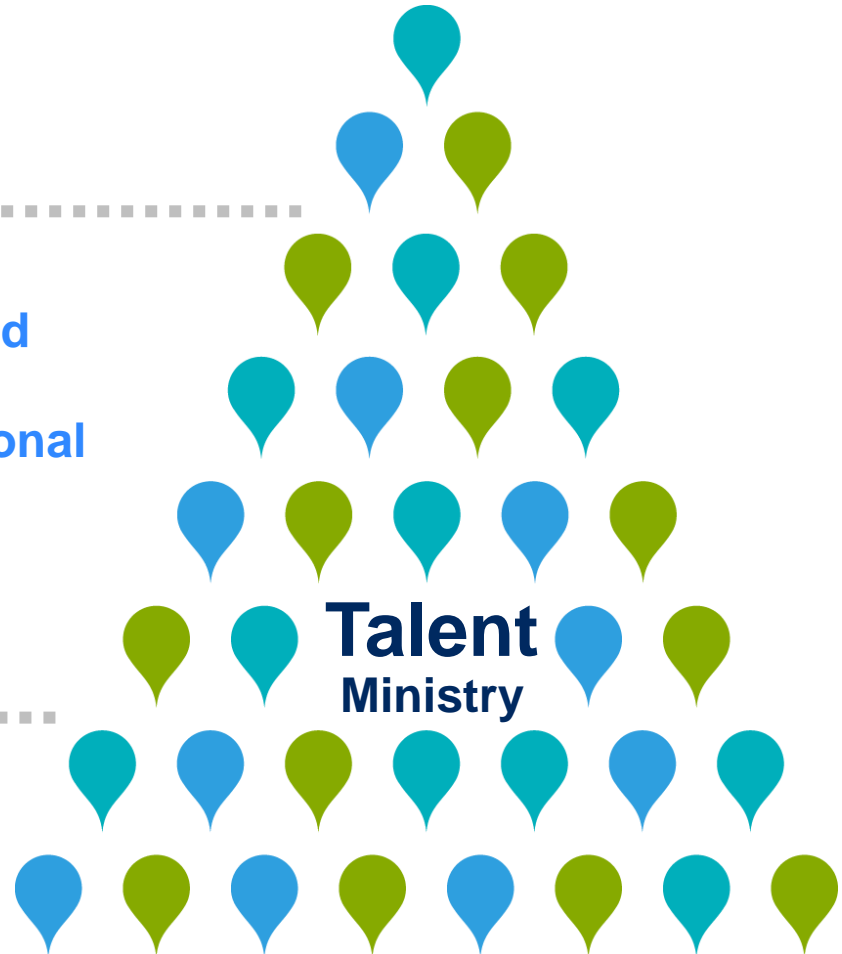


**Strategic Talent
Management
Framework**

**Identify and
develop
organizational
leaders**

**Succession
Planning**

**Talent
Ministry**



10 SHIFTS

Transformed Delivery



**Similar
standards and
regulations**



**Improve processes
for private HLIs**



**Private
HLI**

**Increase student
and staff mobility**



**Greater
collaboration
between
public and
private HLIs**



***Cross-
fertilisation***



**Public
HLI**

10 SHIFTS

Transformed Delivery



**Putrajaya
Committee for
Higher Education**

**University
Transformation
Programme**
Based on GLCT

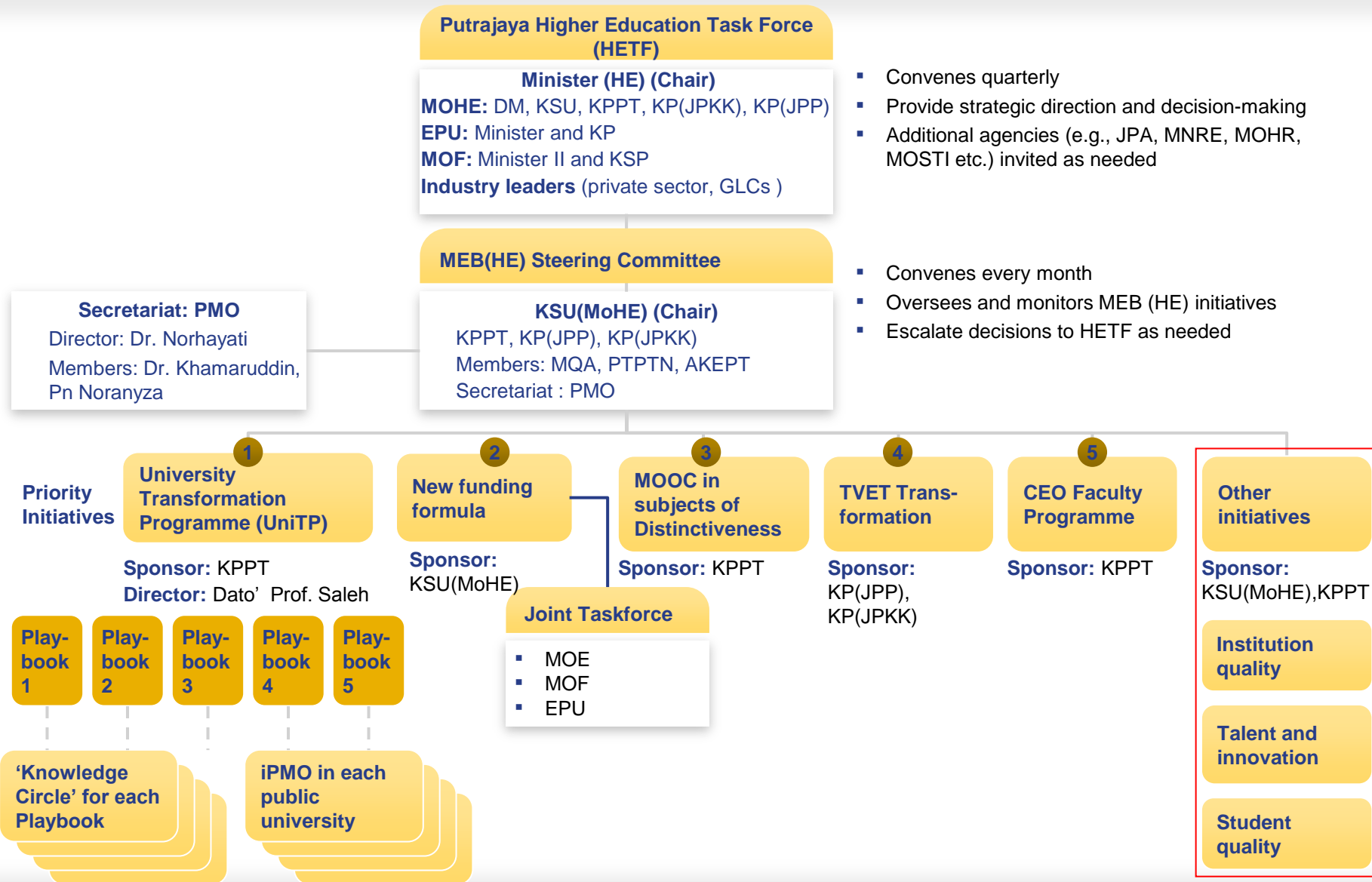


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Proposed overall governance for MEB (HE) implementation



1



University
Transformation
Programme

2



New Funding
Formulae

3



MOOC in
subjects of
Distinctiveness

4



Technical and
Vocational
Education and
Training
Transformation

5



CEO Faculty
Programme

5 PRIORITY INITIATIVES for 2015

University Transformation Programme is a critical initiative of MEB (HE)

1

Ministry



KEMENTERIAN PENDIDIKAN TINGGI MALAYSIA

20

Public
universities



33k

Academic staff



500k

Students



The ministry leverages UniTP as the conduit to drive **transformation through public universities** to implement all dimensions of MEB (HE) to impact 500K students

University Transformation Programme (UniTP) and the Five (5) Playbooks



UniTP Green Book

Governance

Enhancing University
Board Governance
and Effectiveness



UniTP Blue Book

Performance Mgmt

Strengthening Performance
Management and Financial
Reporting



UniTP Brown/Orange Book

Career Pathway

Strengthening Career
Pathways and
Leadership
Development



UniTP Purple Book

Income Generation

Establishing Alternative
Income Sources Including
Endowment



UniTP Yellow Book

Productivity

Improving Academic
Productivity and Cost
Efficiency

PLAYBOOKS • GUIDE BOOKS

The approach to developing the playbooks and university transformation plans will be implemented across three stages

A Five Transformation Playbooks on critical topics

- Input of **senior advisor team** – e.g. **Tun Zaki** chaired governance playbook team
- Formal **syndication with key stakeholders** including VCs, Chairmen, Registrars, PUUs and Bursars



B Pilot Universities to “lead the way” on play-book implementation

- Pilot universities selected to lead implementation e.g.,
 - Governance** pilot – **UMS, UM, UKM**
 - Productivity** pilots - **UPM, UIAM, UTEM, UKM, UiTM**



C University Transformation Plans by each public university

- Each public university will be required to draft an **end-to-end transformation plan** across all dimensions of the UniTP and submit to the Ministry by Dec 2016



MEB (HE) Implementation Steerco

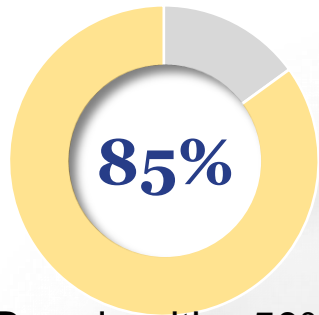
- Steerco will sign off on the key recommendations, and drive the necessary policy changes
- Universities will report on progress against transformation plans at HE steerco from Jan 2016

GOVERNANCE PLAYBOOK (UNiTP Green Book) provides guidance on the critical elements of an effective University Board

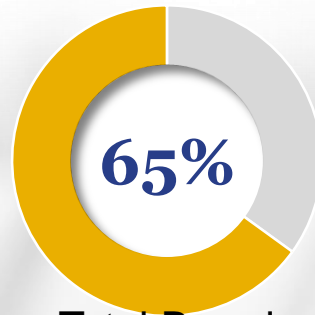
Key changes within the components of an effective University Board



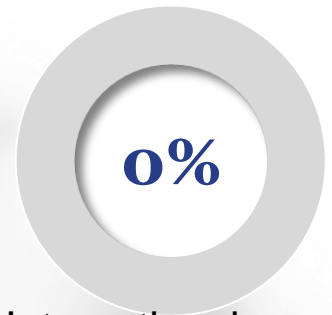
GOVERNANCE PLAYBOOK (UniTP Green Book): Analysis of board composition reflects gaps in diversity of experiences, gender and international representation



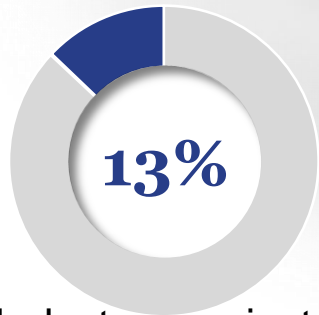
Boards with >50% Directors from the public sector



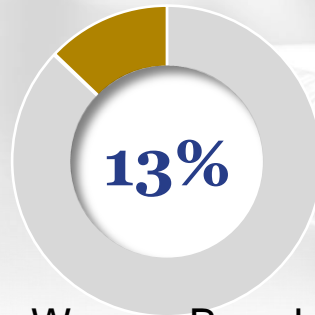
Total Board Directors from the public sector



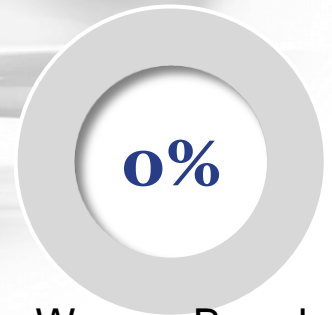
International non-Malaysian Board Directors



Industry or private sector Board Directors



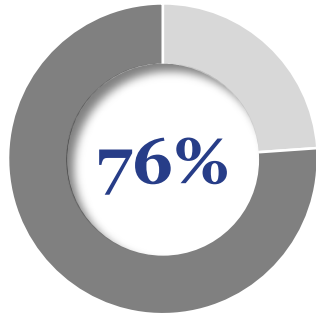
Women Board Directors



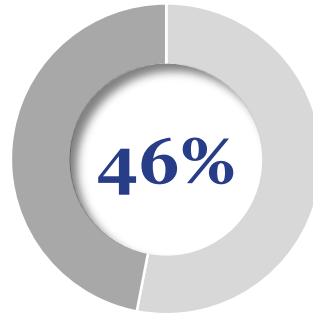
Women Board Chairpersons

GOVERNANCE PLAYBOOK (UniTP Green Book): A survey of all public university LPU and VCs suggests gaps extend in skills and expectations

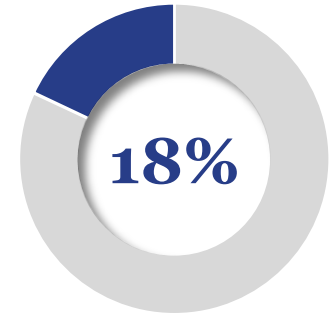
Percentage of respondents agreeing with statement



"Current board composition is not optimal"



"Not all board members are clear on roles"

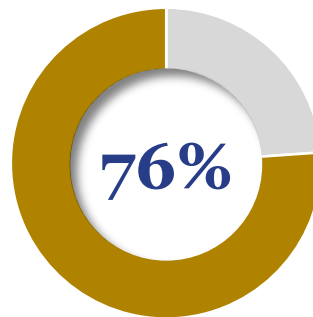


"Absenteeism is a significant problem"

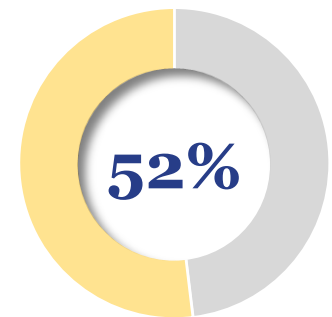
Current gaps in knowledge and skills of University Boards



Strategy expertise

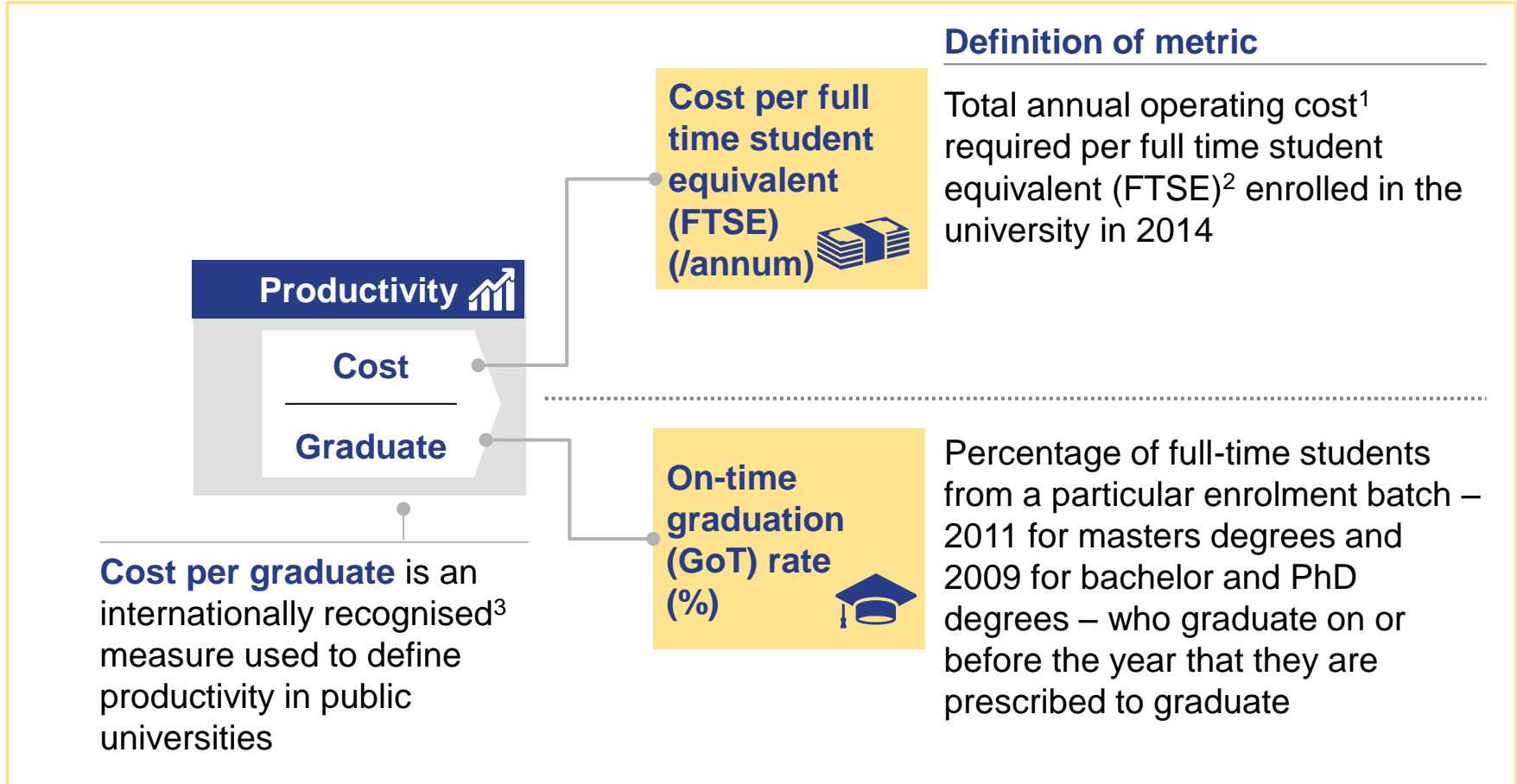


Fundraising expertise



Connections to industry

One of the key metrics to measure 'academic productivity' - cost per graduate



1 Cost is calculated on an accrual basis, excluding any expenses related to government-allocated hospital budget (only for UM, UKM and USM) and Private Finance Initiatives (PFIs)

2 The estimate for part time students is calculated by multiplying the number of part time students by a 'part time : full time' conversion factor. For most institutions, this factor is 1:3, and therefore MoHE has chosen a conversion factor used in the analysis of 1/3

3 National Center for Higher Education Management Systems (NCHEMS) and American Institutes for Research: Delta Cost Project use cost per graduate to measure productivity of public universities in the US. The metric is also used by state government bodies such as in Indiana and Florida.

NEW FUNDING FORMULA: The Ministry has outlined 3 key levers for the implementation of the new funding formula and performance based contracts

1

Replacing block grants with performance-linked and per-student funding

- Performance funding will be tied to **specific student outcomes, national priorities and the institutional mission**
- **Per student funding will be linked to demand**, and nuanced by degree type, course type etc.

2

Implementing 5 year performance contracts (3+2)

- The 3+2 year performance contracts will be **tailored** for each university
- To be **implemented based on the readiness level** of each institution

3

Defining clear tailored KPIs for every public university

- **Outcome-based KPIs** will be carefully tailored for each public university across **key dimensions**, such as academic teaching and curriculum, research outcomes, contributions to the community, organisational improvements etc.

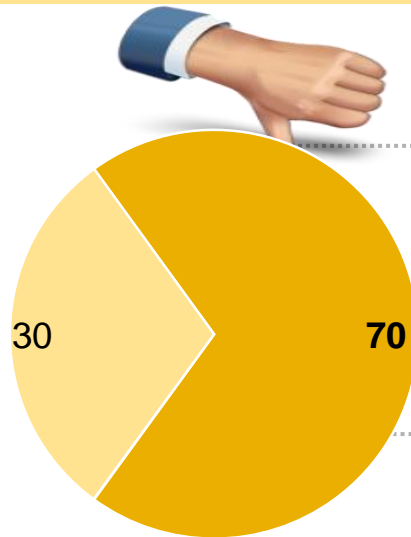
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70% of change programs fail because behaviors get in the way!

70% of change programs fail ...



... mainly because behaviors get in the way

Other obstacles	14
Inadequate resources or budget	14
Management behavior does not support change	33
Employee resistance to change	39

70% of these failures are due to organization issues

SOURCE: Scott Keller and Colin Price; Beyond Performance: How Great organisations Build Ultimate Competitive Advantage. 2011; McKinsey Quarterly Transformational Change survey; January 2010

Change is tough ...



... even when the stakes are high

Medical researchers took a group of heart patients who had coronary bypasses resulting from their lifestyle:

- Smoked too much
- Ate too much
- Drank too much
- Had too much stress
- And didn't exercise

The patients were told: « Change or Die »



When faced with the ultimate “burning platform”, What percentage of heart patients changed their lifestyle?



10%

But change is possible



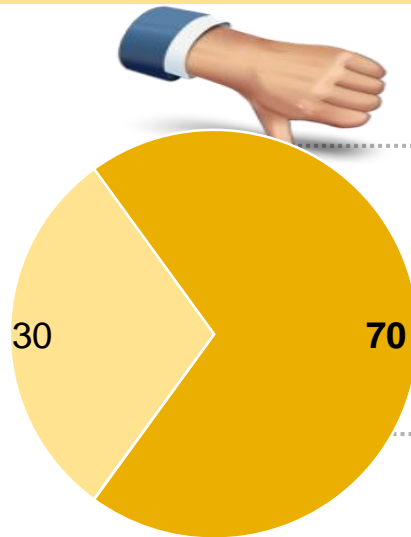
77%

of patients who underwent a behavioral change program were able to change their lifestyles and avoid life-threatening heart problems

INFLUENCING SUSTAINABLE CHANGE

70% of change programs fail because behaviors get in the way!

70% of change programs fail ...



... mainly because behaviors get in the way

Other obstacles	14
Inadequate resources or budget	14
Management behavior does not support change	33
Employee resistance to change	39

Including initiatives that primarily focus on shifting mindsets and behaviors **doubles** the chance of success

SOURCE: Scott Keller and Colin Price; Beyond Performance: How Great organisations Build Ultimate Competitive Advantage. 2011; McKinsey Quarterly Transformational Change survey; January 2010

