



KEMENTERIAN PENDIDIKAN TINGGI
MINISTRY OF HIGHER EDUCATION



Industry Centre of Excellence (ICOE): Graduate Employability through BIM Initiatives

By

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Introduction

SOARING
UPWARDS
MALAYSIAN HIGHER EDUCATION



- The education and higher education system in Malaysia has come a long way
- Malaysian education system has had fair share of critiques and challenges.

World is changing. To keep pace with the challenges of the 21st Century.

Internet of Things.
Internet of Everything

Accelerating PACE of
CHANGE due to DIGITAL age

TPPA



Higher Education Landscape

79,016 ACADEMICS (PhD & Equivalent 20,395) (26%)

Public IHLs 32,079 (PhD 14,640) *June 2015
 Private IHLs 36,185 (PhD 5,670) *June 2015
 Polytechnics 7,916 (PhD 81) *Oct 2015
 Community Colleges 2,836 (PhD 4)*Aug 2015

20 PUBLIC UNIVERSITIES

5 Research Universities
 4 MTUN (TVET)
 11 Comprehensive
 16 HiCoEs

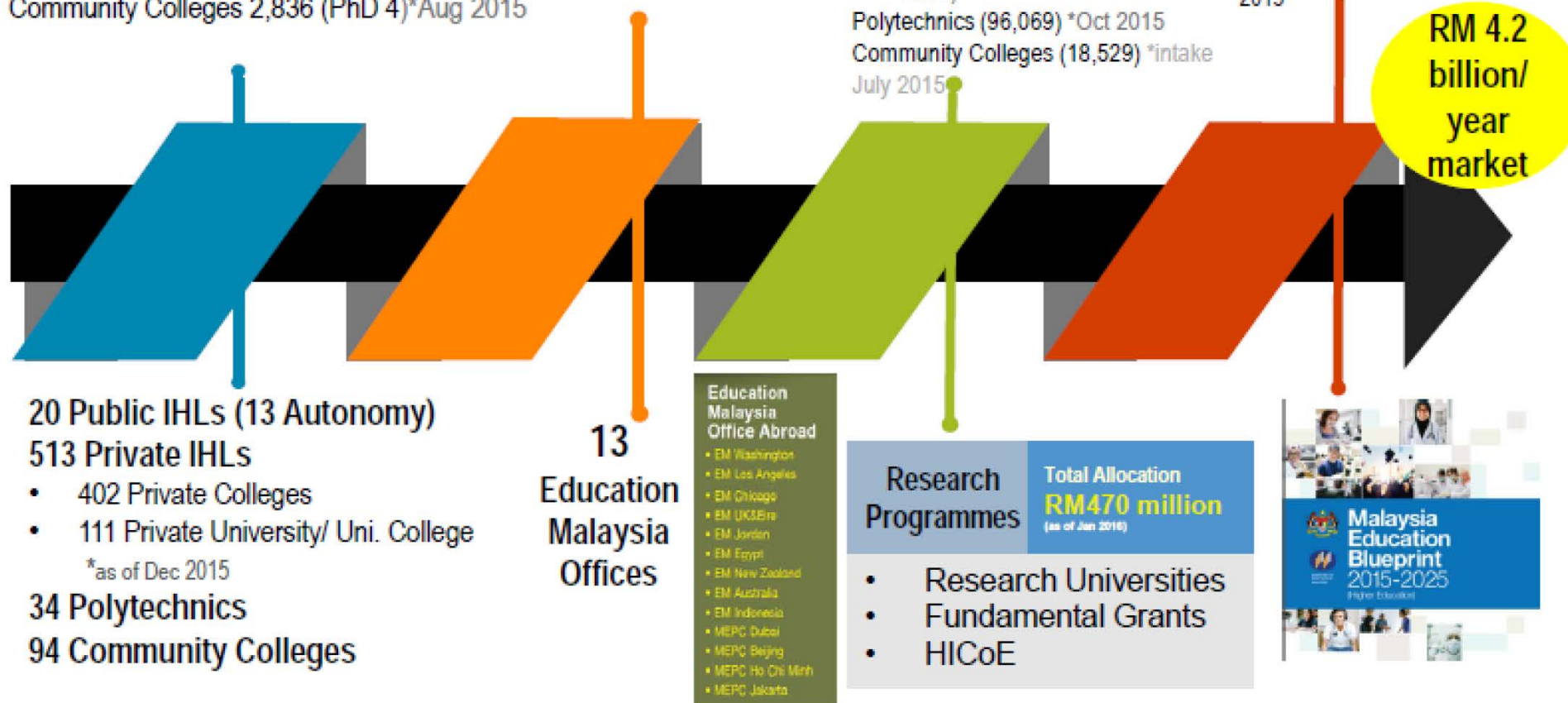
ENROLLMENT (1,289,242)

Public IHLs (566,266) *Nov 2015
 Private IHLs (608,378)
 • Local students: 493,725 (June 2015);
 • Int. Student: 114,653 (Sept 2015)
 Polytechnics (96,069) *Oct 2015
 Community Colleges (18,529) *intake July 2015

INTERNATIONAL STUDENTS

Undergraduate level – 85,194
 Post-graduate level – 29,459
TOTAL – 114,653 *as of 30 Sept 2015

RM 4.2 billion/ year market



20 Public IHLs (13 Autonomy)

513 Private IHLs

- 402 Private Colleges
 - 111 Private University/ Uni. College
- *as of Dec 2015

34 Polytechnics

94 Community Colleges

13
 Education
 Malaysia
 Offices

Education
 Malaysia
 Office Abroad

- EM Washington
- EM Los Angeles
- EM Chicago
- EM UK/Eire
- EM Jordan
- EM Egypt
- EM New Zealand
- EM Australia
- EM Indonesia
- MEPC Dubai
- MEPC Beijing
- MEPC Ho Chi Minh
- MEPC Jakarta

Research
 Programmes

- Research Universities
- Fundamental Grants
- HICoE

Total Allocation
RM470 million
 (as of Jan 2016)



What kind of future generation do we want?

Graduates that can meet the 21 st century challenges	Critical thinking skills, entrepreneurial, holistic and balanced	Balanced between character and knowledge
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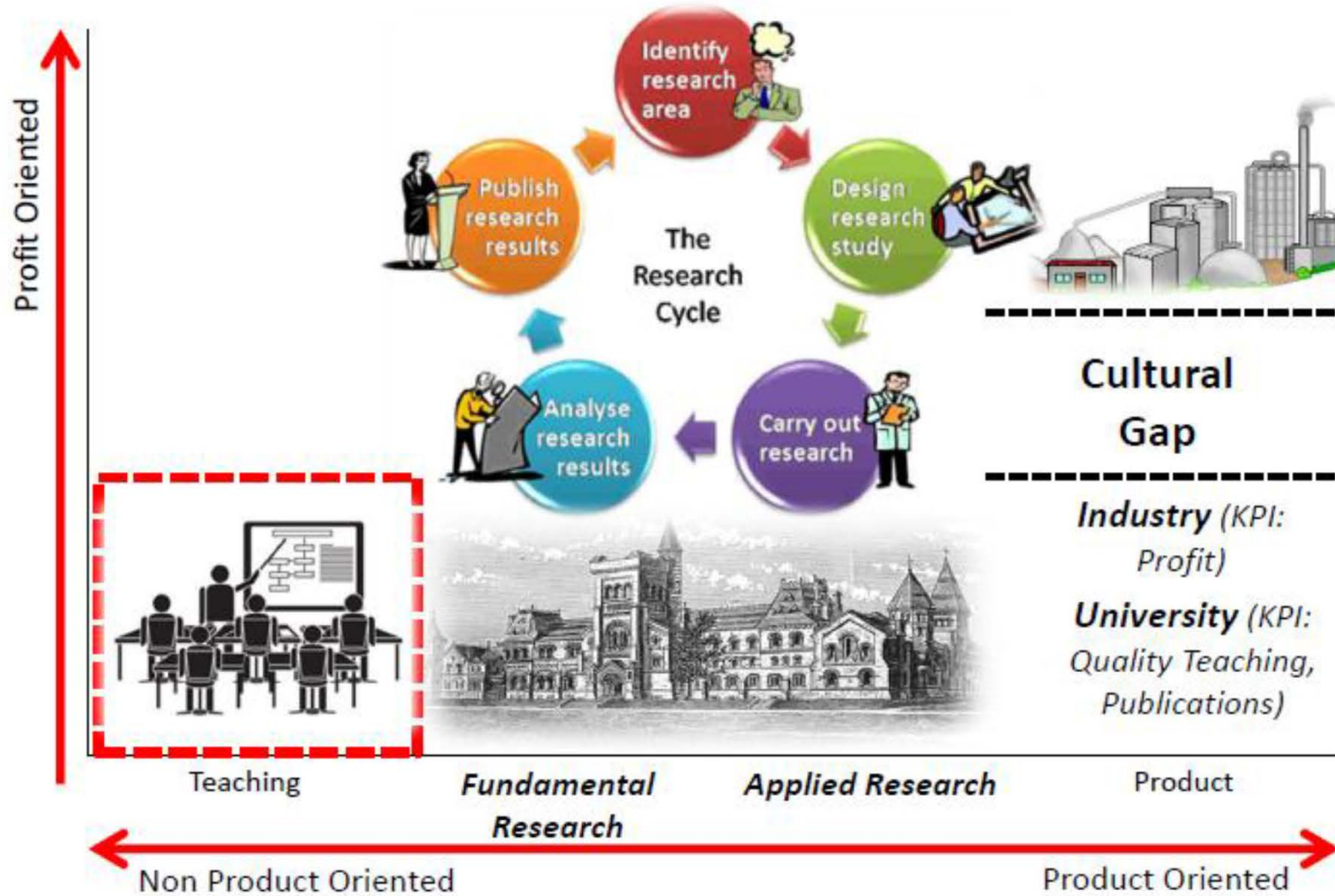
We want to make sure that as we go global, Malaysians have the character of **good citizenry**, someone who can contribute to the country and society via his/her ability to generate wealth for the country (by being entrepreneurial and a job creator) and able to enhance the social well-being of society at large via the knowledge acquired and transferred.

In short bringing back soul to the Malaysian education system developing learned values-driven talent	We want to move from the word human capital to human being (talent)	End game is to make the Malaysian Education system to be referred, respected and relevant
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Academy-Industry Cultural Gap



HUMAN CAPITAL DEMAND

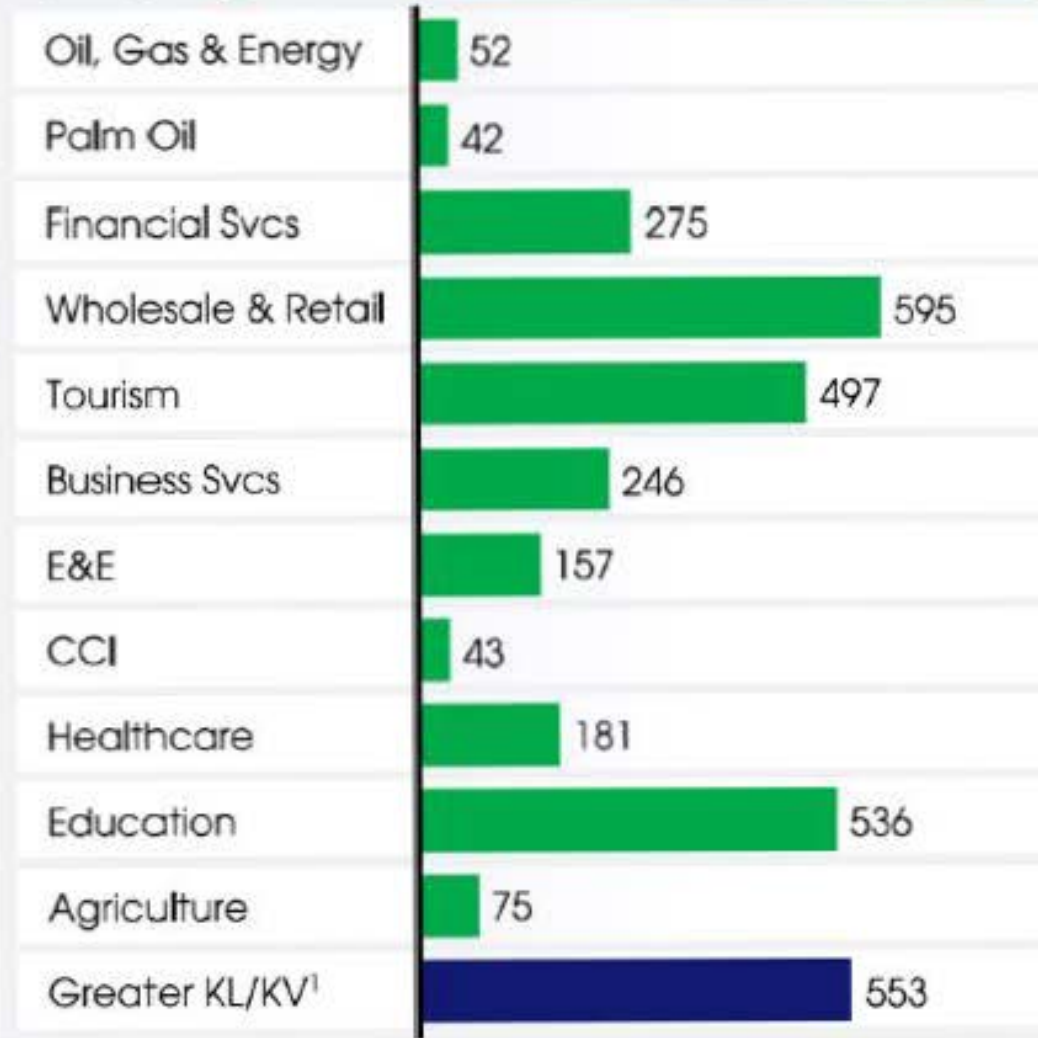
ECONOMIC TRANSFORMATION PROGRAMME

- ❑ 12 National Key Economy Areas (NKEAs)
- ❑ 3.3 millions new jobs by 2020
- ❑ 60% are middle & high-income jobs

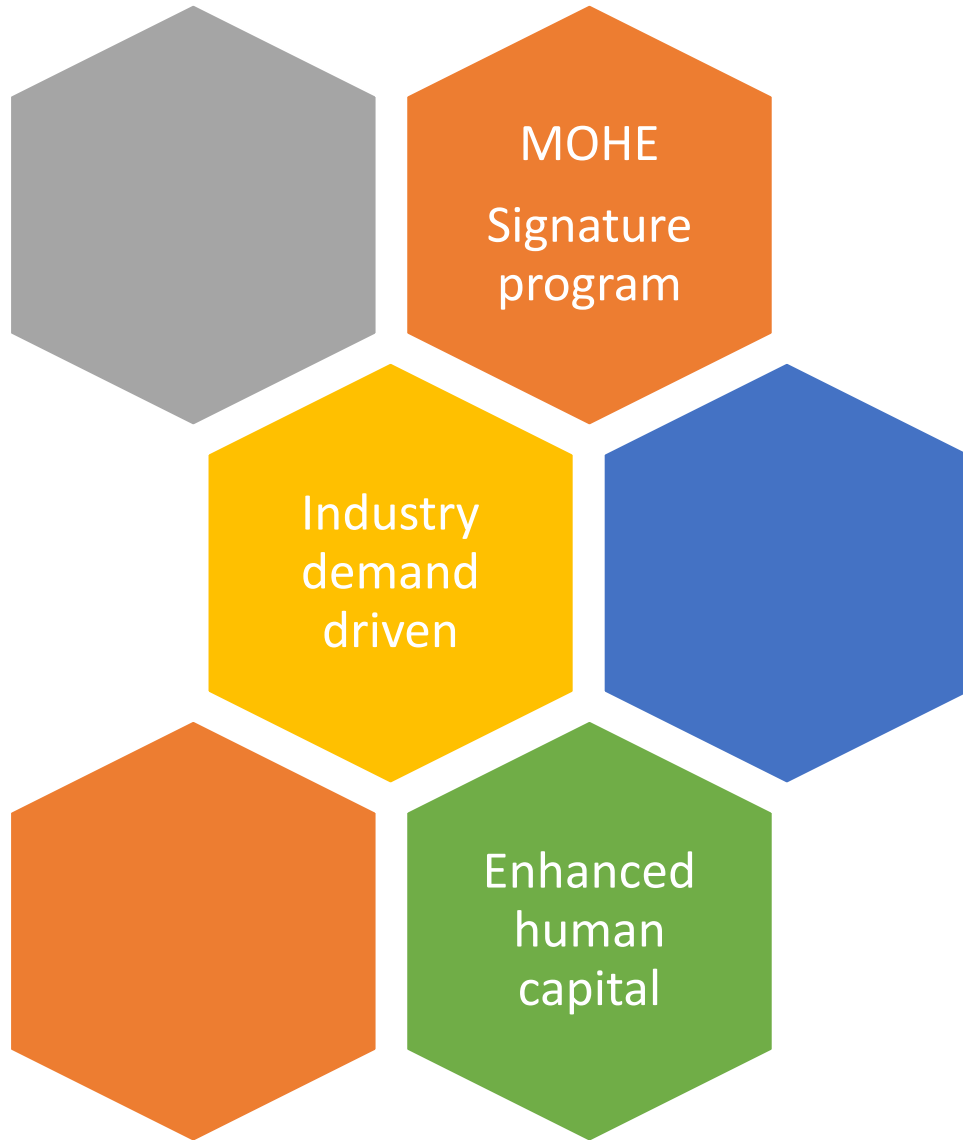


12 NKEAs:
3,252,000 jobs

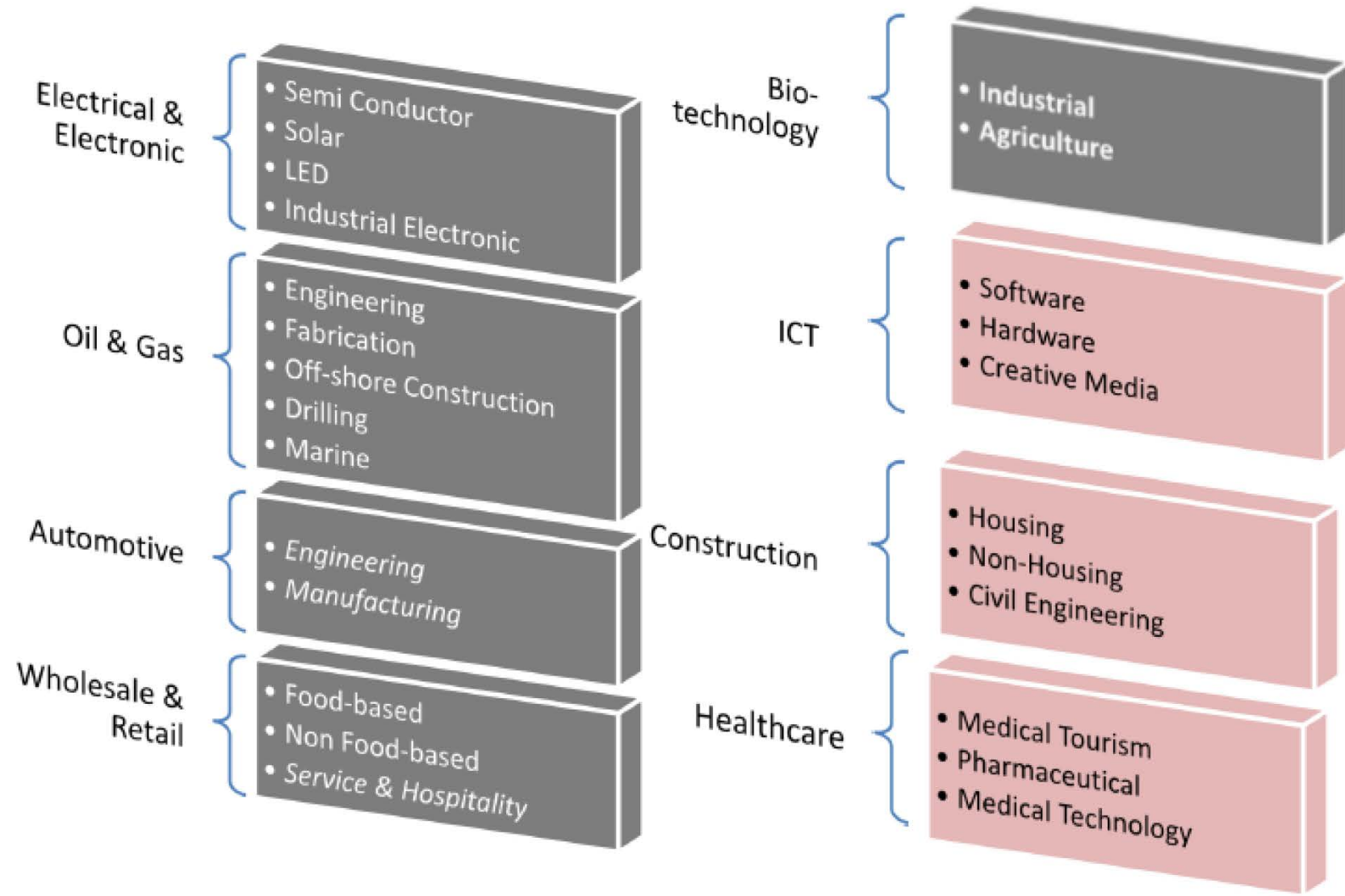
New jobs created (2020)
Thousands



What is Industry Centre of Excellence (ICoE)?

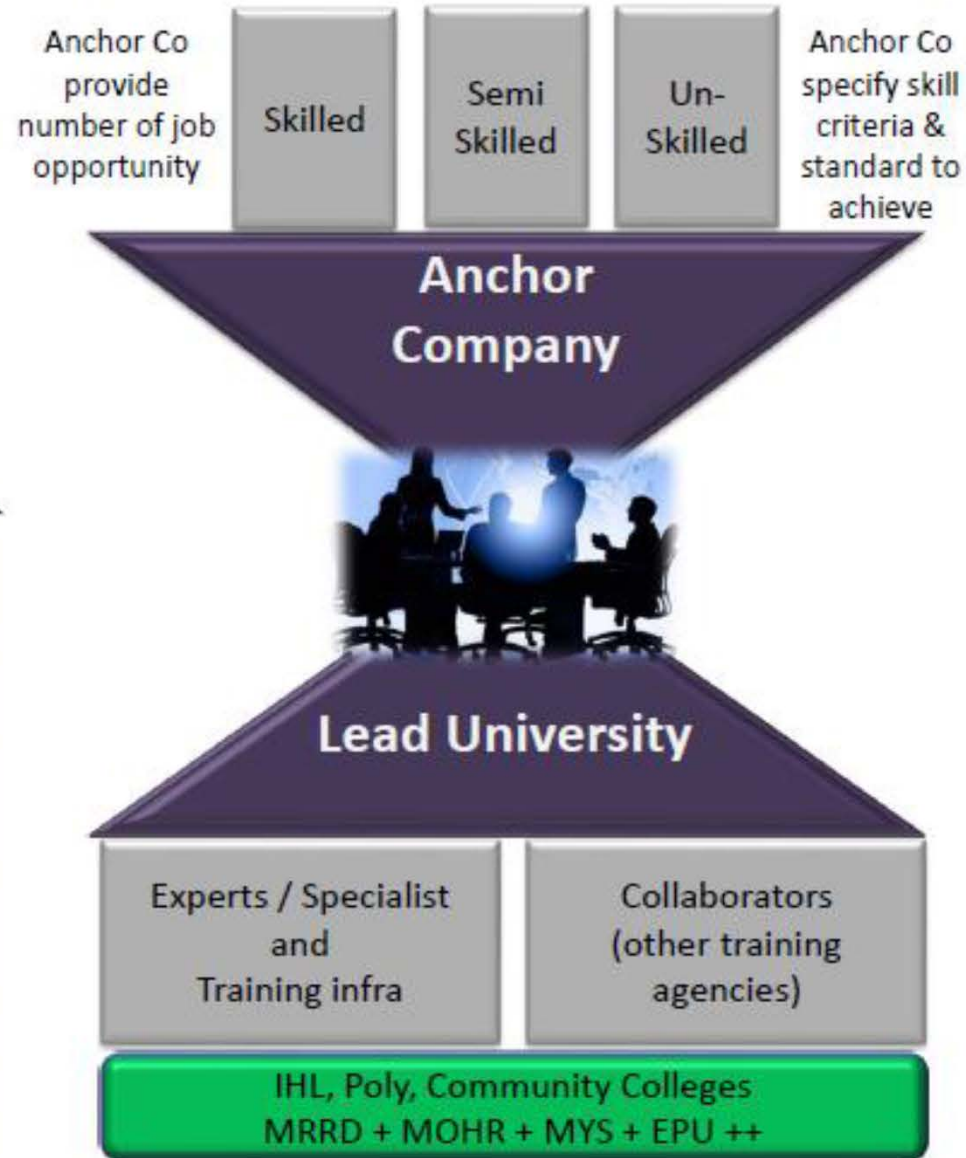


Established ICOE



How does ICOE works?

ICOE: *Human Capital Development*



ICOE IMPLEMENTATION

HCD Program Structure



Industrial Training

Placement provided by the anchor company and its supply chain

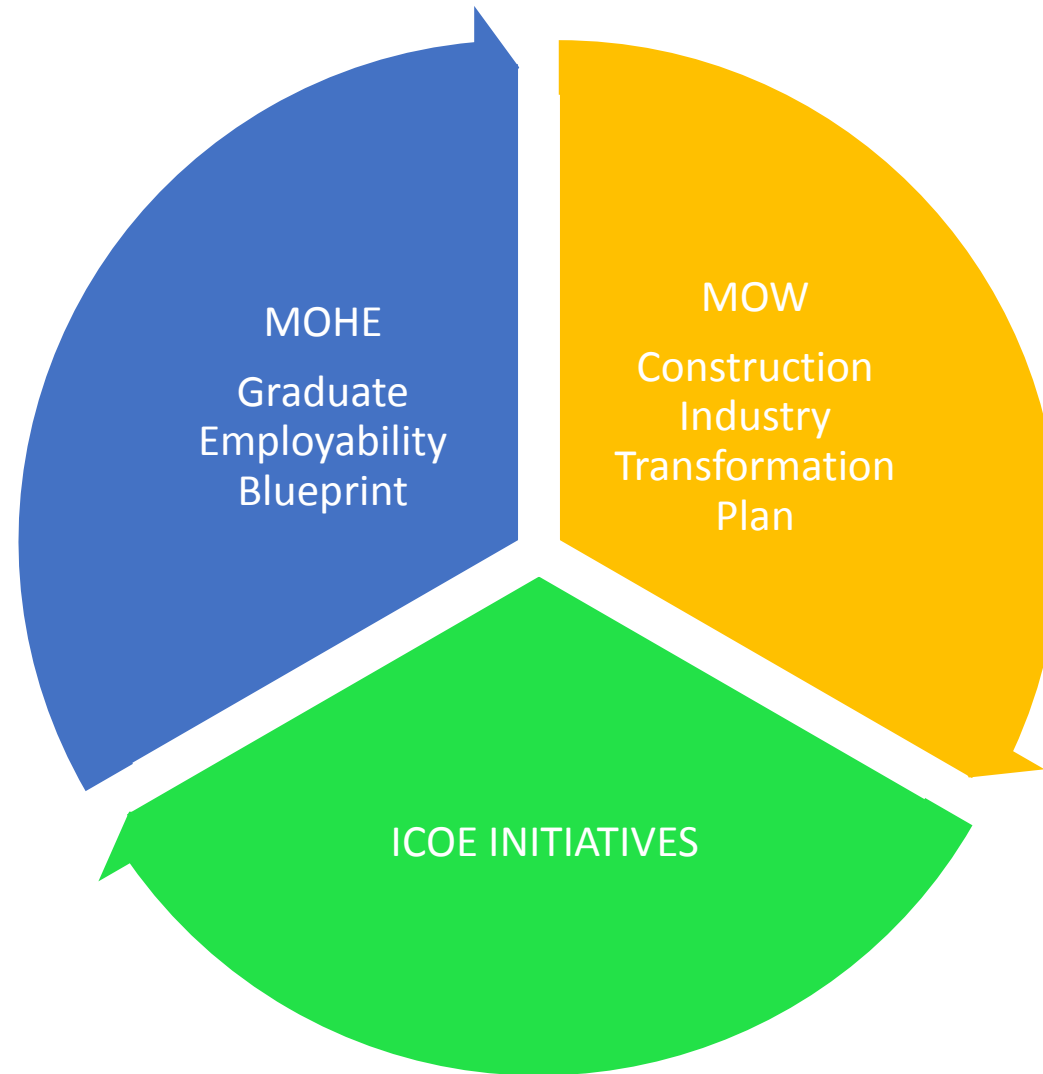
Structured Internship Program

- ✓ Courses within the curriculum
- ✓ Student project from companies
- ✓ Training during semester or semester break
- ✓ Expert lecturers from the industry



4	8		Talent Development	
	7			
3	6	Industrial Training		
	5			
2	4	Structured Internship Program		
	3			
1	2			
	1			
Year	Sem	Student Training		Lecturer & Trainer

11th Malaysia Plan



4200 STUDENTS

500 TRAINERS

(61% BIM related)

**SOARING
UPWARDS**
MALAYSIAN HIGHER EDUCATION

The logo features the text 'SOARING UPWARDS' in a large, red, serif font, with 'MALAYSIAN HIGHER EDUCATION' in a smaller, blue, sans-serif font below it. To the right of the text is a large, stylized orange arrow pointing upwards and to the right, with a yellow outline.

ICOE BIM INITIATIVES

- ✓ **BIM Outreach programs**
- ✓ **BIM-Academia- Industry Dialogue**
- ✓ **Established BIM technical lab**
- ✓ **BIM technical training (beginner & advance training)**
- ✓ **5D BIM technical training**



UMP ICOE-CONSTRUCTION BIM OUTREACH PROGRAM



1st BIM Academia OUTREACH PROGRAM



KPTM Kuantan 2000014



ICOE BIM TECHNICAL LAB



BIM ICOE ACADEMIC-INDUSTRIAL DIALOGUE AT MOHE





National ICOE CONSTRUCTION BIM-TT beginner TRAINING

To achieve the following
purpose:

- Delivering Technical Training
- Providing technical data for each institutions involved
- BIM support and advisory for each institution
- *To better understand the current level of BIM Readiness

*3 out of 11 institutions
are ready for Physical BSC

CONCLUSION

- *Malaysians deserve the best education the country can offer.
- *Nurturing **future-ready graduates**
- * **HOLISTIC, ENTREPRENEURIAL AND BALANCED GRADUATES**





thank
you!