



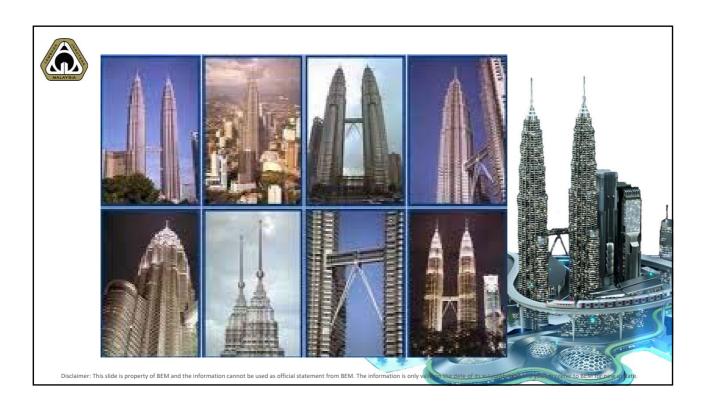
### What engineers can do:

- Transportation
- Buildings & Structures
- Housing and shelter
- Water supply
- Food production
- · Sanitation and waste management
- Energy development
- Industrial processing
- Development of natural resources
- · Cleaning up polluted waste sites
- Sitting and planning projects to reduce environmental and social in
- Restoring natural environments such as forests lakes, wetlands
- Improving industrial processes to eliminate waste and reduce consumption
- Recommending the appropriate and innovative use of technology

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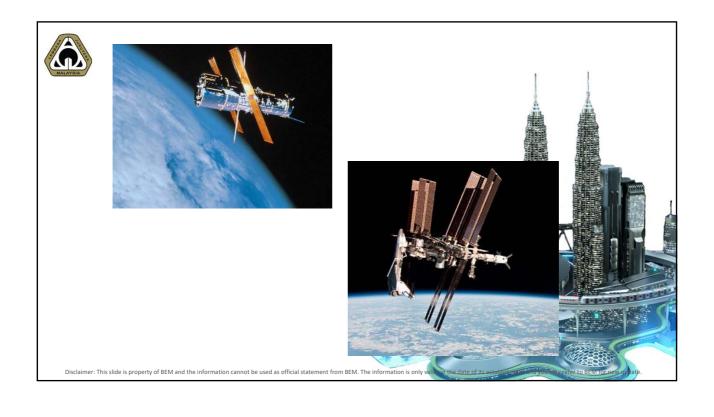


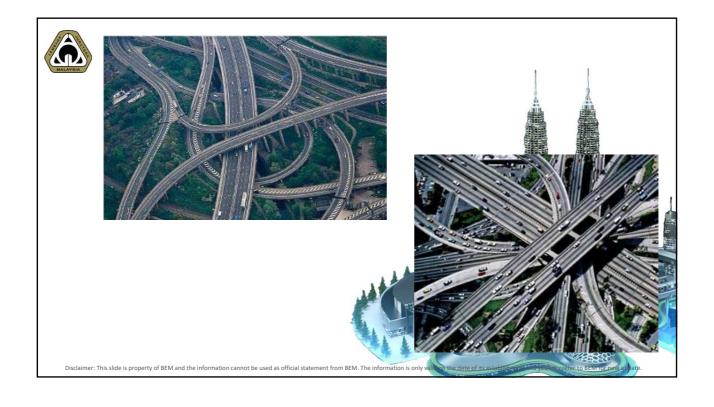






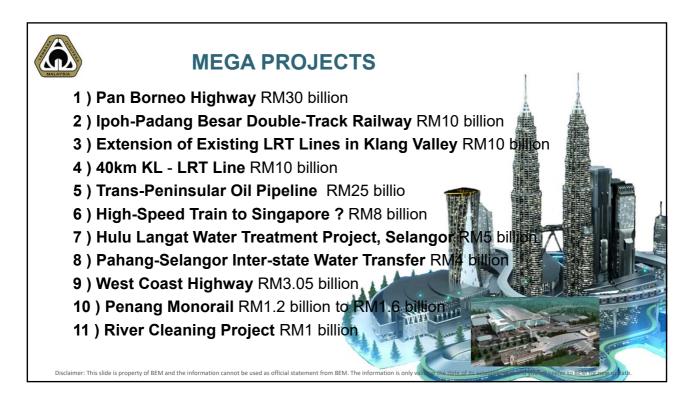




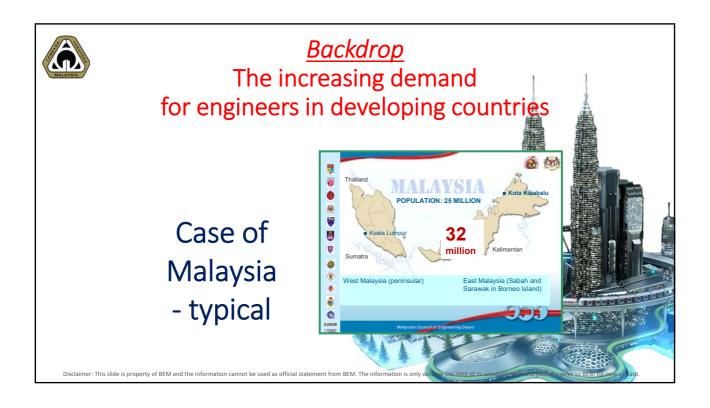


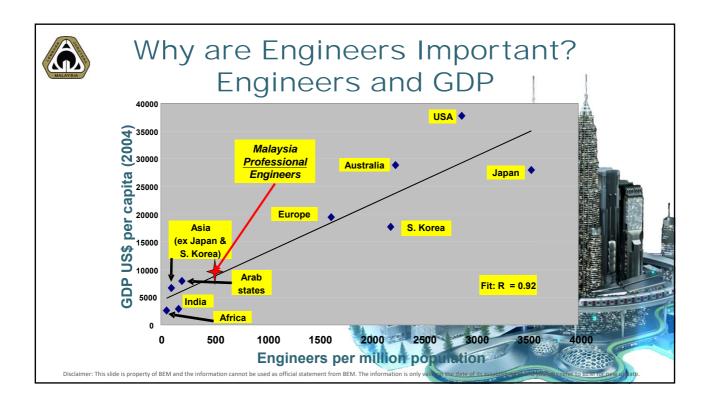














# Engineer-Population ratios

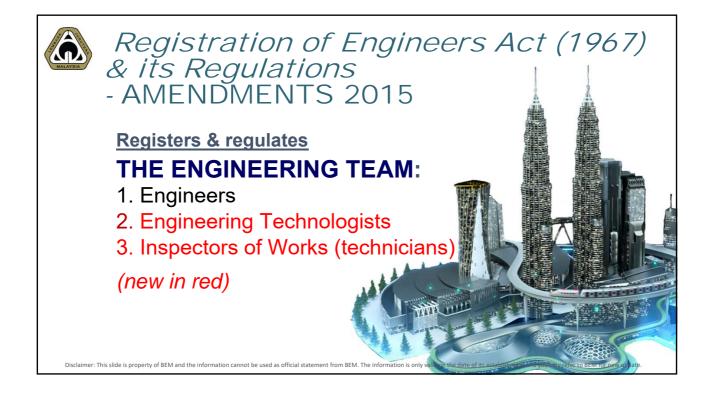
	Population	Number of Registered Engineers	Engineer- Population ratio
Malaysia	32 million	146,000	1:218
Japan	126 million	2.5 million (Stats Bureau Japan 2000)	1:50
Germany	82 million	1,000,000	1:82
United Kingdom	60 million	425,000	1:141

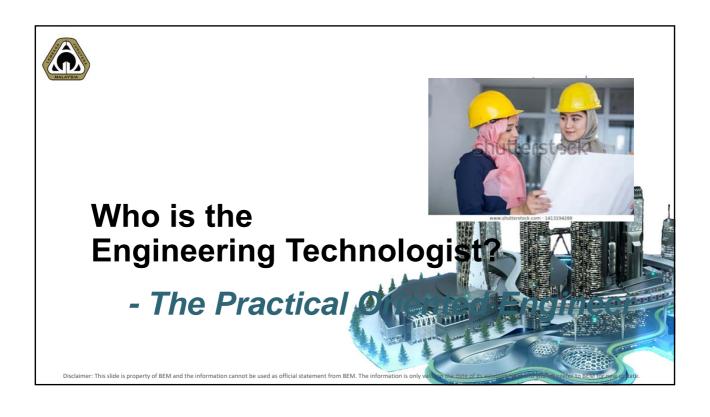
Data includes both engineers & engineering technologists

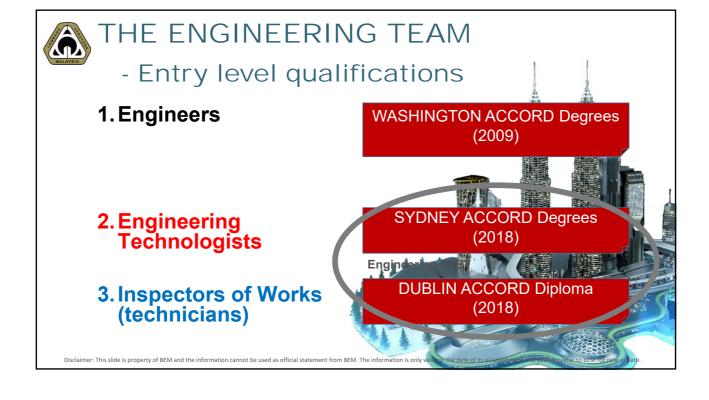
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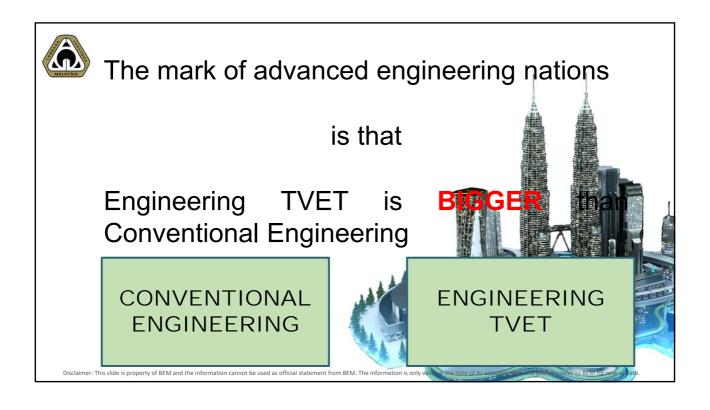


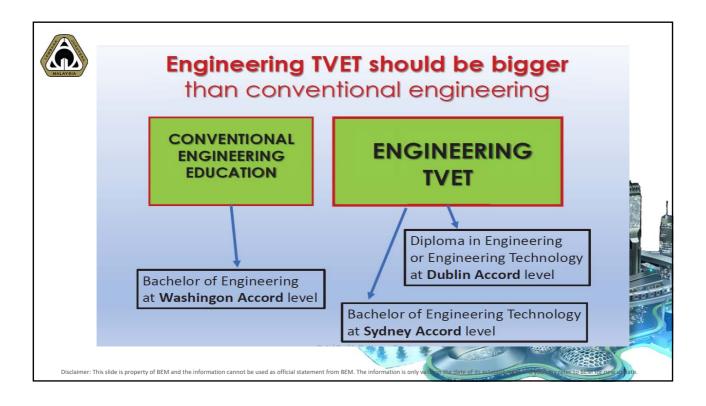


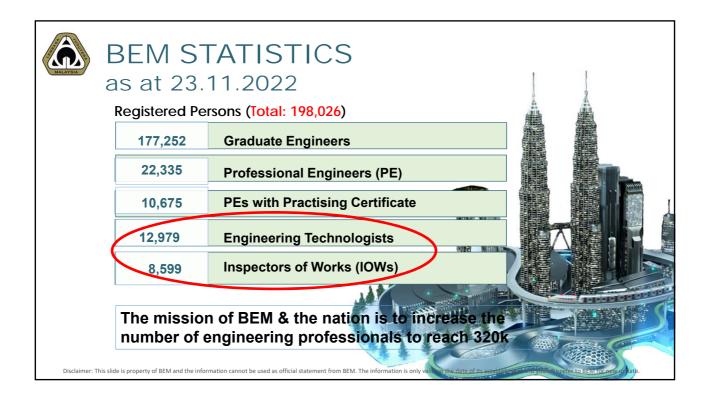


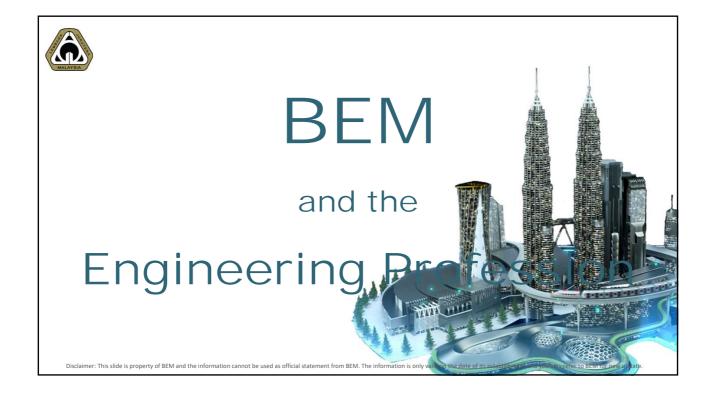


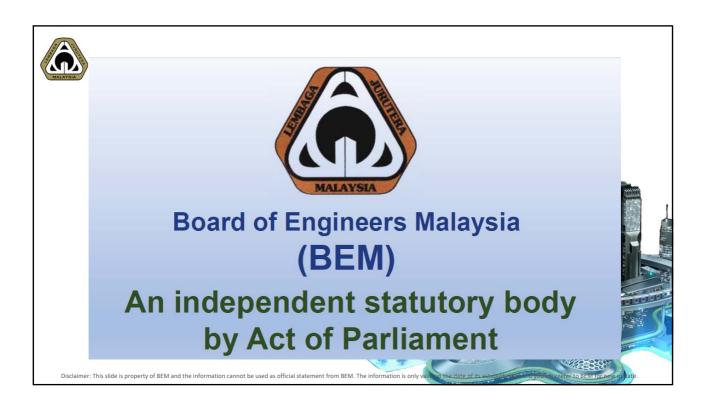


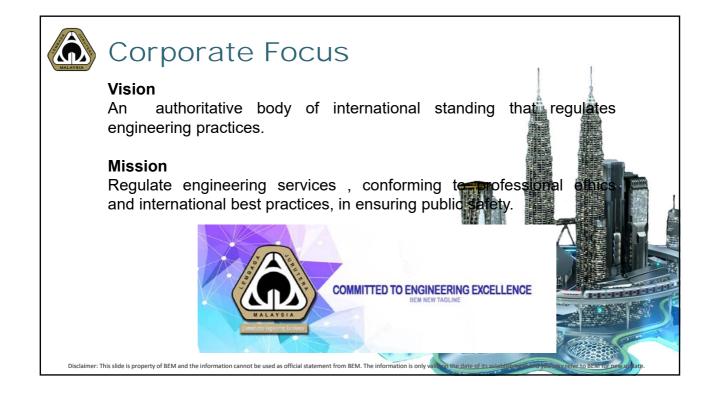


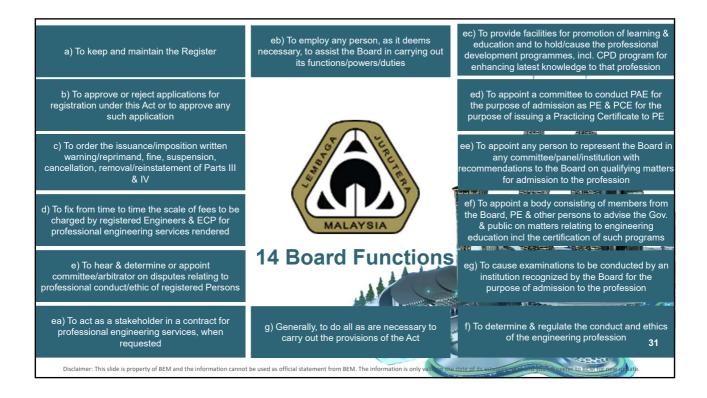


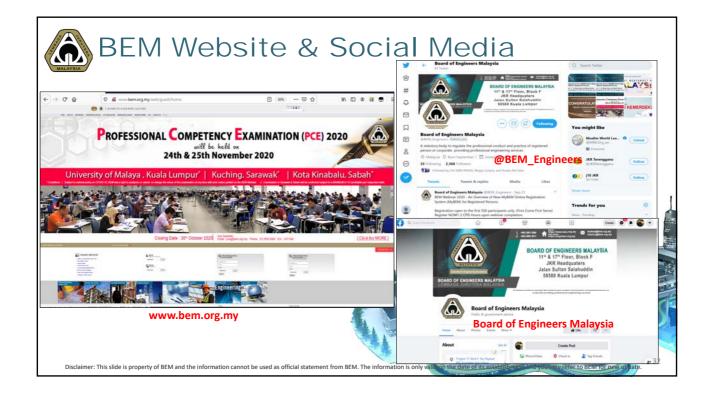








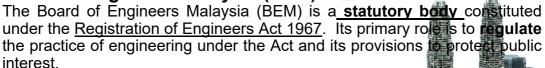






## Understanding The Different Roles

### **Board of Engineers Malaysia (BEM)**



Registration with BEM is mandatory if to practice estimates in the practice estimates and the estimates and the practice estimates and the practice estimate

### Institution of Engineers Malaysia (IEM)

A professional & learned body registered under the Registra of Society promote science & profession of engineering in any of its discribines facilitate the exchange of information & ideas related to engineering as we as networking, learning and socializing.

Registration with IEM is voluntary.

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### Understanding The Different Roles

### **Malaysian Board of Technologist (MBOT)**

The Malaysian Board of Technologist (MBOT) is a <u>statutory body</u> constituted under the <u>Technologist and Technicians Act 2015</u>. Its primary role is to **recognize** Technologist and Technician as professionals

Registration with MBOT is voluntary.

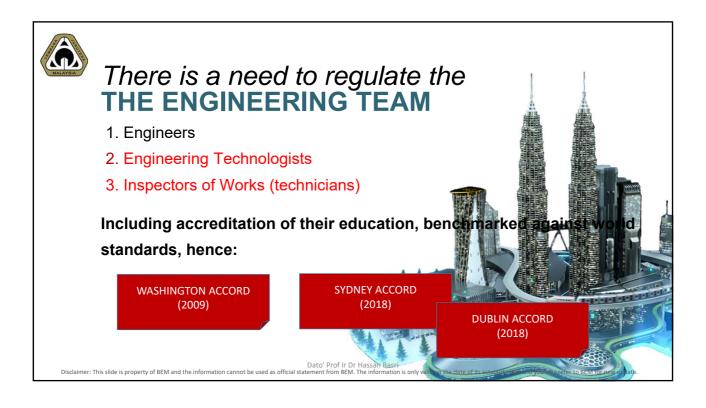
# Malaysian Society for Engineering and (MySET)

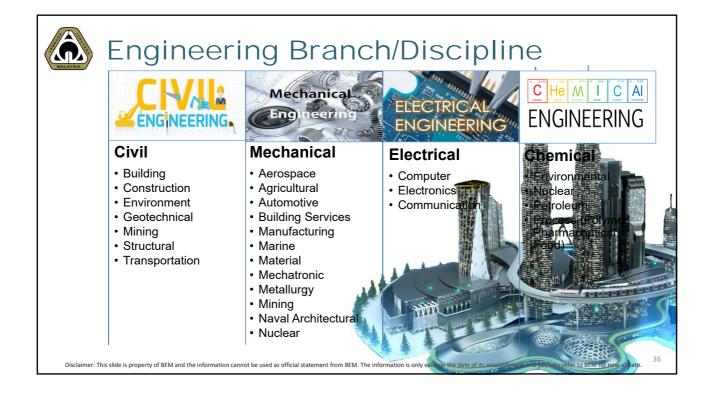
A professional & learned body registered under the Registrar of Seciety to promote of engineering and technology, to facilitate the exchange of information & ideas related to engineering & technology, as well as networking, learning and socializing.

Registration with MySET is voluntary.

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### Mandatory Registration for Employment

### Section 7(2) (a)

"a **Graduate Engineer** who is registered with the Board may subject to section 8, take up employment which requires him to perform processional engineering services"

#### Section 7(2) (aa)

"an Engineering Technologist who is registered with the Board masubject to section 8, take up employment which requires that before professional engineering services"

### Section 7(2) (ab)

"an Inspector of Works who is registered with the Board may subject to section 8, take up employment which requires him to assist Professional Engineers in supervision of engineering works"

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### Interpretation

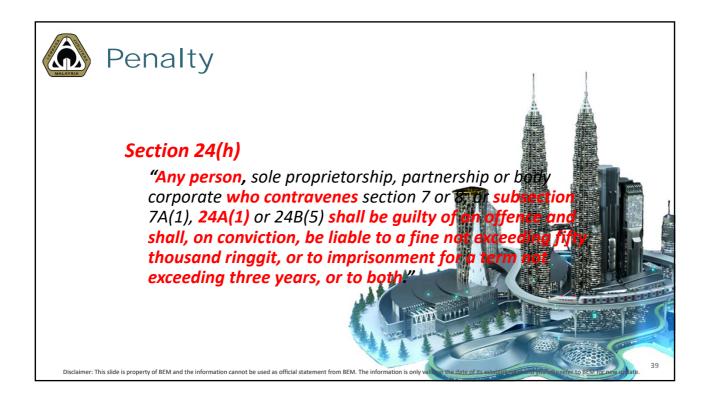
#### "Professional engineering services"

- means engineering services and advice in connection with any feasibility study, planning, survey, design, construction, commissioning, operation, maintenance and management of engineering works or projects and includes any other engineering services approved by the Board.

#### "Engineering work"

means all works which include any publicly or privately events
public utilities, buildings, machines, equipment, processes, works or
projects that require the application of engineering principles and
data.

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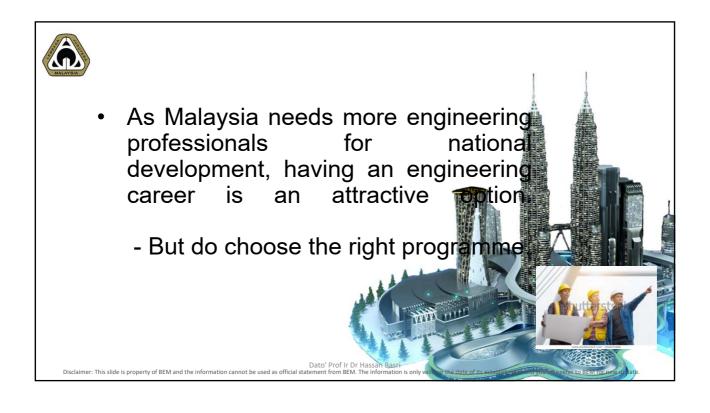


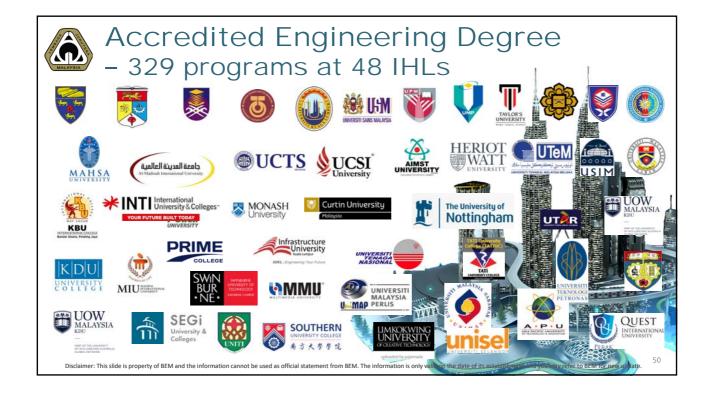


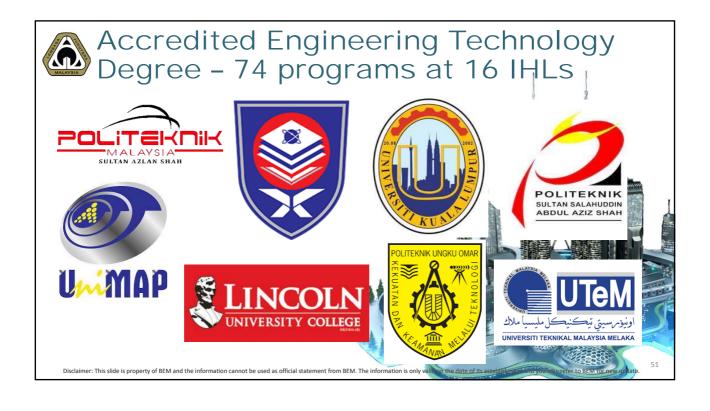




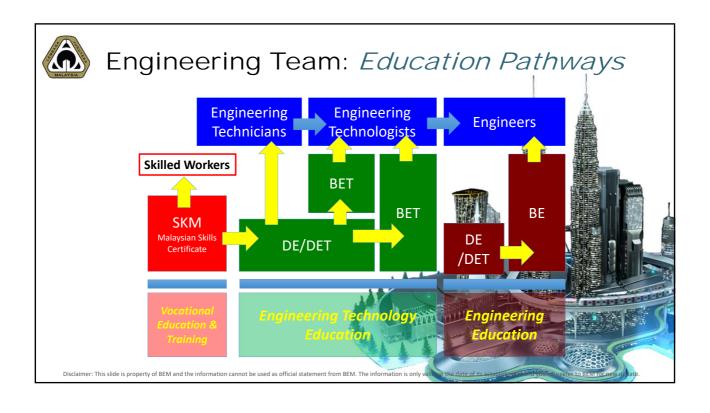


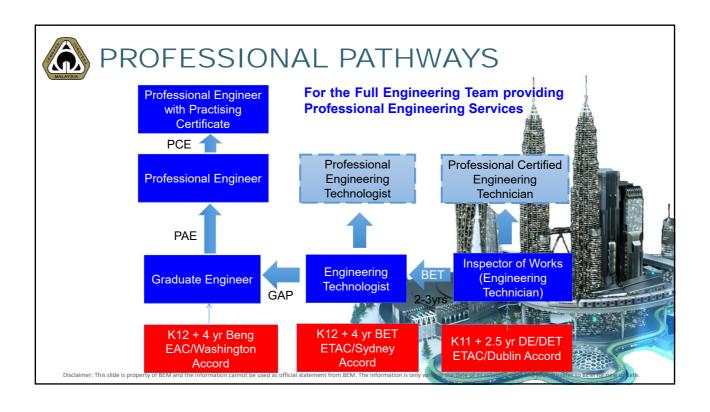
















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