



UNIVERSITI  
MALAYA



# RESEARCH ASSESSMENT AT HIGHER EDUCATION INSTITUTIONS IN MALAYSIA

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*Serving the Nation. Impacting the World.*



# Background

- In Malaysia, there are 109 HEIs comprising 20 public universities (including 5 RUs), 63 private universities, and 26 public university colleges.
- In addition to HEIs, there are 73 public research institutes (PRIs) from various ministries which were established since 1900.

# Research Funders

- R&D funders in Malaysia are (i) federal, state, and local governments, (ii) business enterprises including government-linked companies (GLCs) and corporations (iii) private sectors and NGOs, and (iv) international agencies.
- The Ministry of Science, Technology and Innovation (MOSTI) is the main agency for government research grants disbursement to public and private institutions and industry partners.
- The Ministry of Higher Education (MOHE) is the major funder for HEIs, particularly for fundamental research and research universities block grants, as well as some pre-commercialisation, prototype grants.
- Other ministries also award grants, focusing on applied topics in agriculture, health, environment and others

# Research Funds

- In 2022, Malaysia's Finance Minister announced RM423 million allocation to the MOSTI and MOHE to intensify research and development (R&D) activities including RM295 million for public universities to continue their roles in the research ecosystem while encouraging collaborations with industry

# Levels of Research Assessment

## International

- Quacquarelli Symonds (QS) World University Rankings
- Times Higher Education (THE) World University Rankings



## National

- Malaysia Research Assessment (MyRA)
- SETARA Rating

## Institutional

- Standard Academic Performance Target (SAPT)
- Key Performance Index (KPI)



## Project

Key Performance Indicator (KPI) Requirements

- Human Capital Development
- Publications
- Intellectual Property
- Prototype



# Project-level Deliverables (KPI)

## 1. Human Capital Development

Master and PhD students and graduates, post-doc fellows, training of funders' employees

## 2. Publication

Research article in in refereed journals, proceedings, journal quartile, books, chapters in books

## 3. Intellectual Property (register at National or International level)

Patents, copyrights, industrial design, trademarks, product license, training modules

## 4. Prototype

Minimum Viable Product (MVP)

## 5. Others

Projects that address specific needs (eg. priority areas), reports and collaboration with certain target groups

# Institutional Key Performance Indicators (KPI) for annual appraisal

- Institutional level (Tier 1) KPI is set based on the strategic needs of the University in achieving the goals of Transformation and Strategic Plans, criteria set by the Ministry of Higher Education and national agenda
- All indicators and measures in Tier 1 KPI will be cascaded to the faculties, departments and individual staff.

# Evaluation for Academic Promotion

- Teaching and Supervision
- **Research, Consultation and Publication**
  - Research grants (quantum, source of funding – local, international, industry, public fund, role)
  - Publications (journal articles, journal IF, quartile, proceedings, books, chapters in book, authorship level)
  - Intellectual property
  - Prototypes
  - Collaborations (joint projects with industries, governmental agencies, international)
- Professional / academic expertise
- Leadership and academic contribution
- Recognition and Networking



# Inception of Malaysian Research Universities (RU)



# 5 Malaysian Research Universities (RU)



**Universiti  
Malaya**



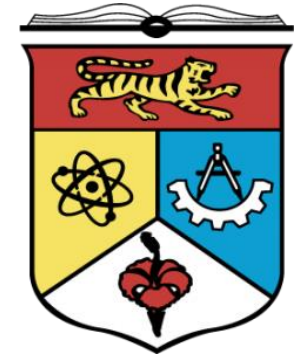
**Universiti  
Putra  
Malaysia**



**Universiti  
Teknologi  
Malaysia**



**Universiti  
Sains  
Malaysia**



**Universiti  
Kebangsaan  
Malaysia**

## FOUR PILLARS OF RESEARCH UNIVERSITIES

Research Prominence  
Talent Development  
Bridging the Grand Challenge  
Wealth Creation

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# Malaysia Research Assessment (MyRA®)







- MyRA® is a yearly assessment (1 Jan – 31 Dec)
- Submission of data (Mac/April); subject to announcement by the Dept of Higher Education, MOHE.
- Upon submission, data goes through self-assessment & internal audit process.
- Internal Auditor appointed by Dept of Higher Education, MOHE
- Research University need to complete both MyRA® I & MyRA® II assessments.



# Malaysia Research Assessment (MyRA)

- The instrument **quantitatively** measures **input and output**, and some **outcome and impact** of Research, Development, Commercialization & Innovation (RDCI)
- Comprehensive RDCI data from each HEI is **important** for the authorities to develop and create the **Ministry framework** and **National Higher Education policy**.
- Research University block grants are determined by their MyRA score each year
- Other universities are required to be audited by MyRA in order to qualify to apply for various grants schemes under MOHE
- University colleges use MyRA to benchmark themselves for future upgrade

# Institute Of Higher Learning Star Rating

| Star  | MyRA I Rating Range |         |
|---|---------------------|---------|
|   | $\geq 100$          |         |
|   | $\geq 75$           | $< 100$ |
|   | $\geq 60$           | $< 75$  |
|   | $\geq 45$           | $< 60$  |
|   | $\geq 30$           | $< 45$  |
|  | $\geq 15$           | $< 30$  |
|   | $\geq 0$            | $< 15$  |

Note: Research universities are assessed using **MyRA II** and rated as 6 stars ( $\geq 100$ ) in **MyRA I**

# MyRA over the years

2009

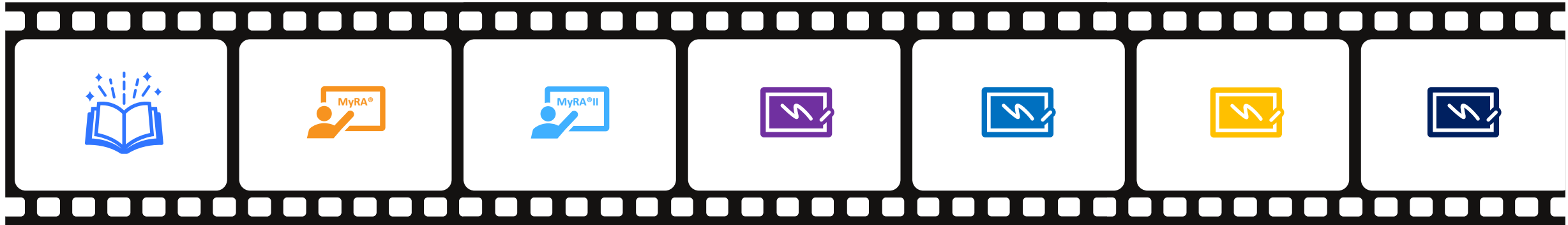
Introduction of MyRA®

2013

Glossary MyRA®  
(Amendment 2013)

2016

Glossary MyRA®  
(Amendment 2016)



2005/2006

Development of Guideline/  
Instrument for Assessment/  
Establishment of RU

2012

Introduction of MyRA®II

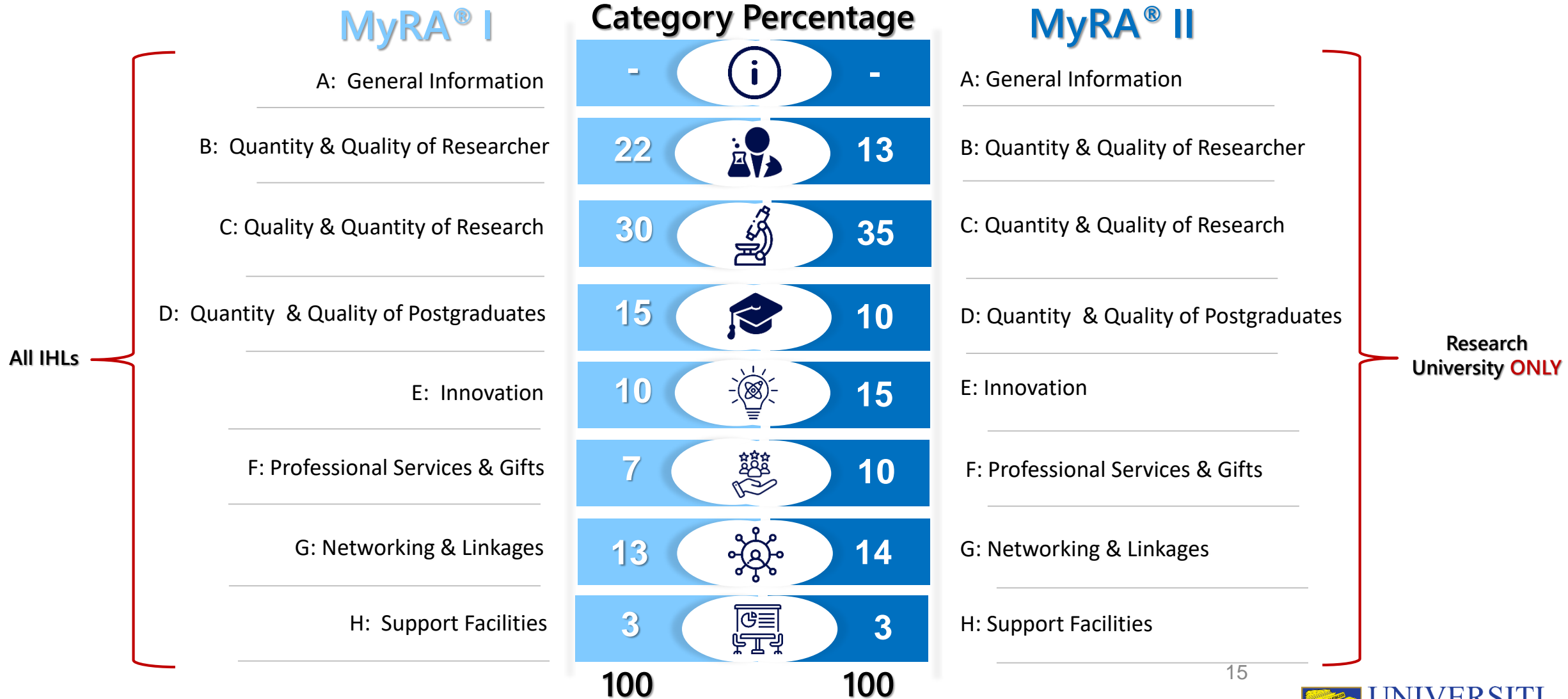
2014

Glossary MyRA®  
(Amendment 2014)

2018

Glossary MyRA®  
(Amendment 2018)

# Section & Score for MyRA® I and MyRA® II (Amendment 2018)

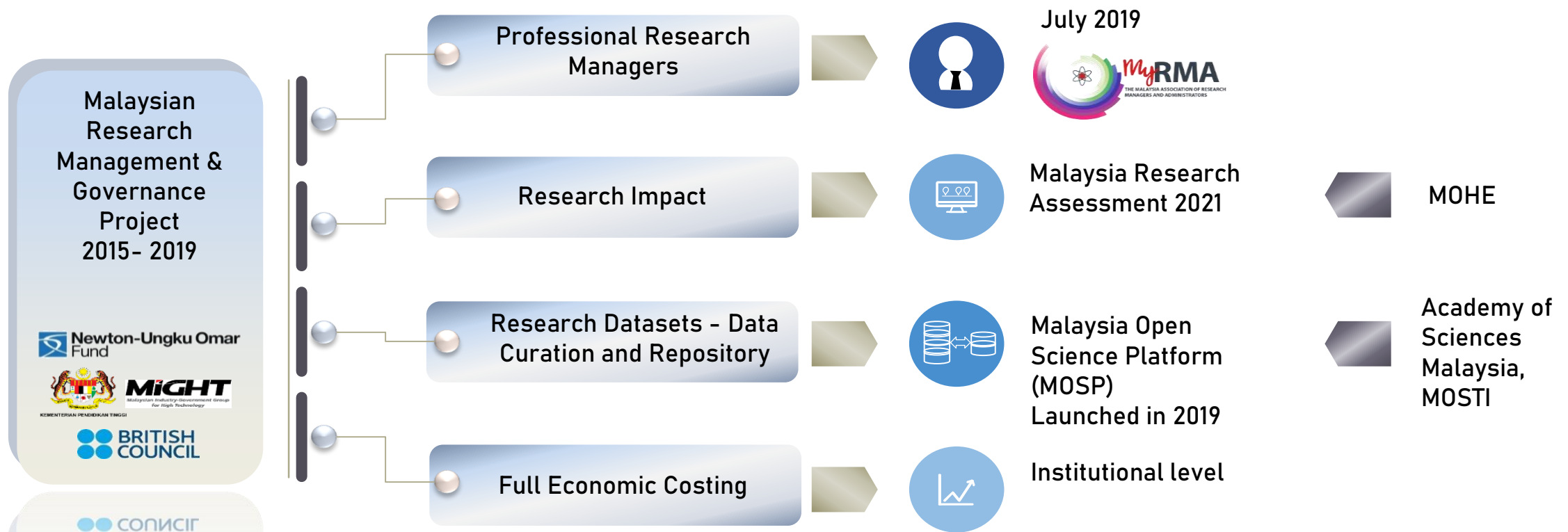


# Moving forward

- The need to balance metrics with qualitative assessment
- Impact is important but how to measure impact
- Early stage of Open Science – advocating sharing of datasets, FAIR principle, data quality, interoperability



# Malaysia Association of Research Managers and Administrators (MyRMA)



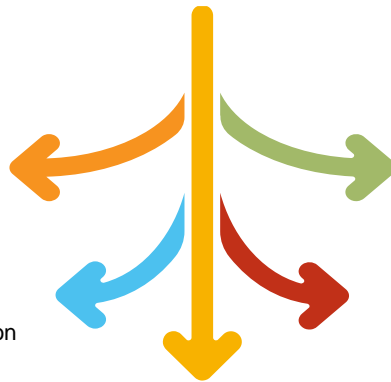
## GOAL

To collect and consolidate Malaysia's research data in a platform that would enable accessibility and sharing of these research data in accordance to the FAIR principle

### PRIMARY OBJECTIVES

To study the landscape and awareness of Open Science based on selected indicators (Available Policies, Number of Repositories, Skill Capacity and Infrastructure Capacity).

Draft **National Policy & Guideline** on Open Science in Malaysia.



Develop one **technical specification document** and to establish and deploy the **MOSP Pilot Platform** involving five research universities in Malaysia.

Create awareness about Open Science among local communities.

Develop a **localized training module** on Open Science for data stewards, which will be the guideline to train and upscale trainers (especially librarians) into Data Stewards.

### MOSP FOCUS AREAS



### INTERNATIONAL GUIDING PRINCIPLES

- FINDABLE**
- ACCESSIBLE**
- INTEROPERABLE**
- REUSABLE**

### 5 RESEARCH UNIVERSITIES



# THANK YOU

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