

OPEN SCIENCE: BETTER LATE THAN NEVER



**ACADEMIC
LIBRARIAN
SEMINAR**
ADAPT | INITIATE | INNOVATE

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Introduction

- Open Science helps to **increase the transparency and rigor** of scientific research.
- In Malaysia, the Open Science movement has already been initiated among academic institutions, but the current state of the movement remains vague.
- Unclear situation on to what extent the library has progressed towards Open Science. In connecting the dots, we need to know what we have done and can do soon in supporting open science.
- This paper offers steps in promoting open science in academic libraries to assist the institutions in cultivating a more open research culture. Also striving towards fulfilling almost all principles of open science practices.

What is Open Science?

Open Science means the **can** be made shared and available to everyone to access, use and share with certain conditions, **depending on the types of data.**

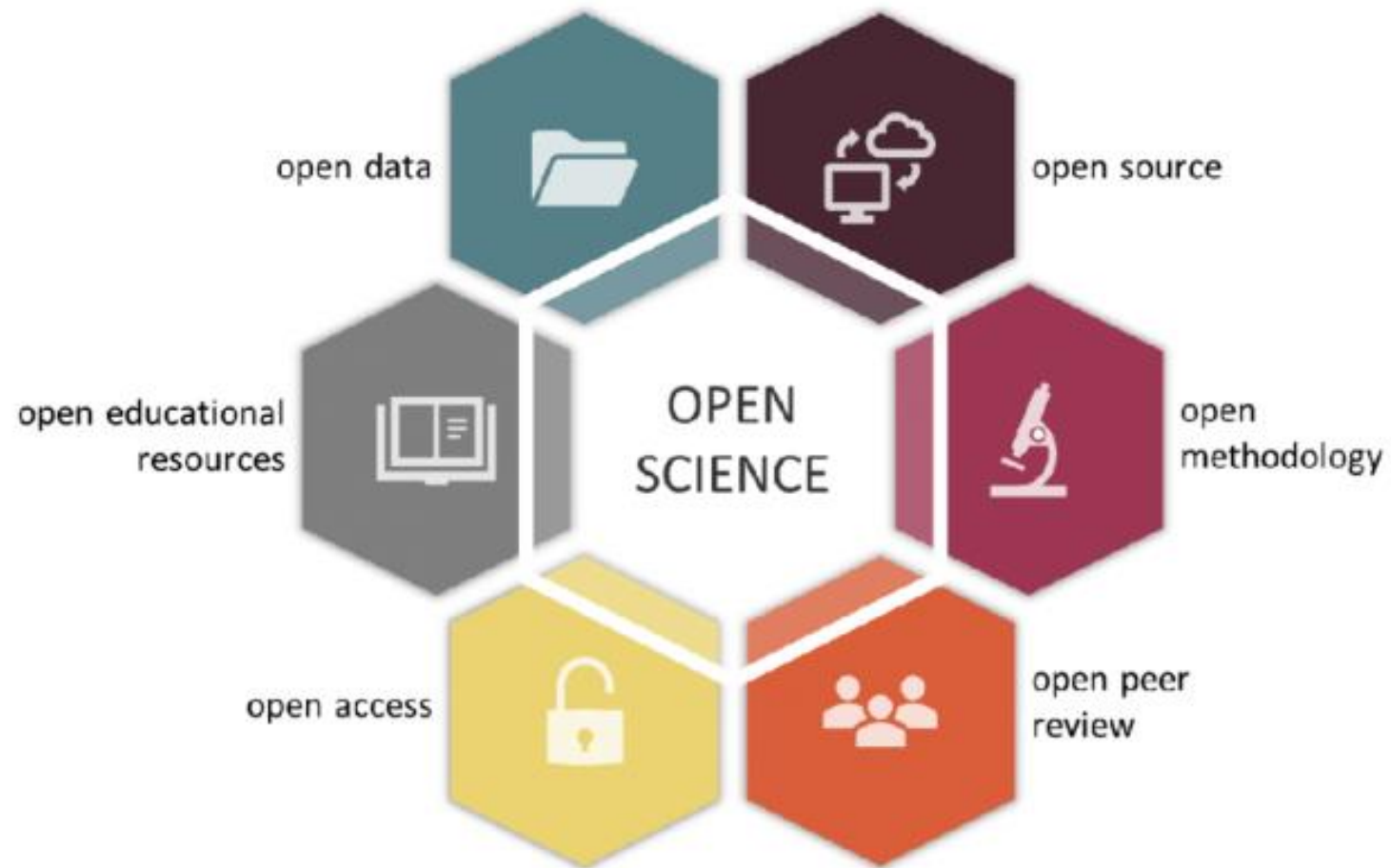
It demands science, which includes **pure science and social science**, to be done with integrity that assures accuracy of research data, in an open, reliable and reproducible fashion.

What is Open Science?

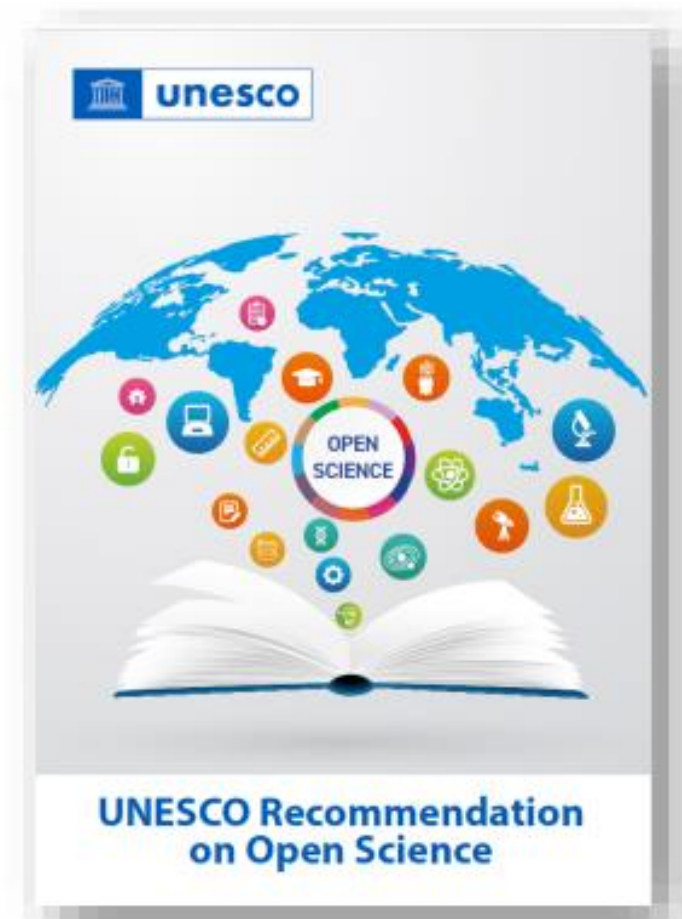
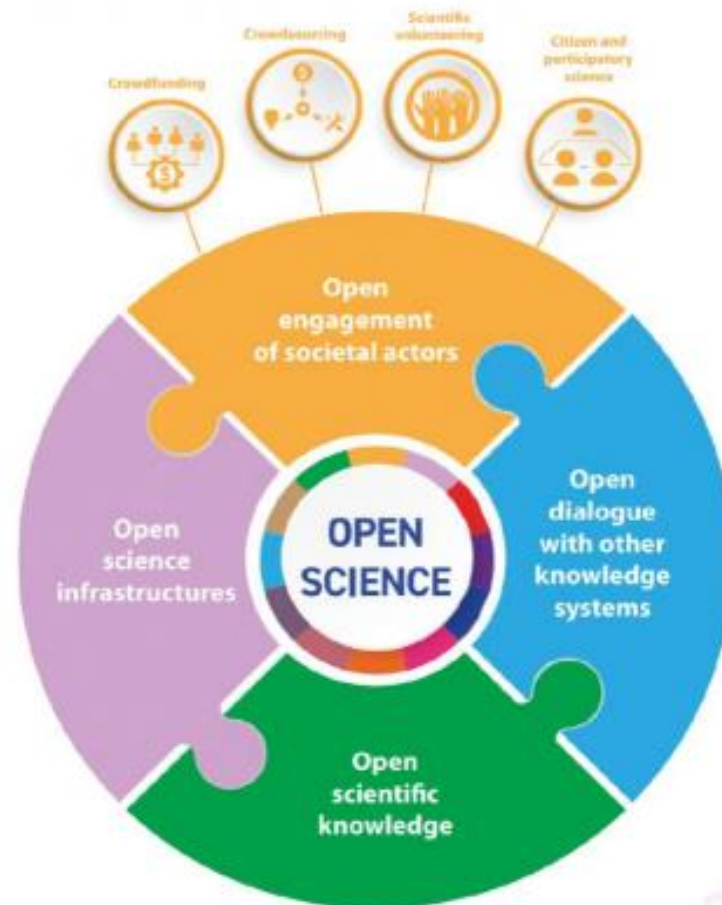
For Open Science, data sharing is guided by the **FAIR principle**. FAIR stands for Findable, Accessible, Interoperable and Reusable. Specifically, FAIR is described as:

- a. Findable – Data and metadata are easily to find by both humans and computers. Usually this task is enabled by machine-readable persistent identifiers and metadata
- b. Accessible – Data can be retrieved using the outlined protocols
- c. Interoperable – System can be used with other tools
- d. Reusable - Data is well-defined and can be used for different purposes and in different settings

Principles of Open Science



Open Science & Open Data



Among UiTM Libraries Initiatives towards Open Science

- Open educational resources
- Opening access to research publications
- Research data sharing

Open Educational Resources



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Opening Access to Research Publications



OPEN ACCESS DISCOVERY
<https://openaccess.library.uitm.edu.my>

“Open access literature is defined as “digital, online, free of charge, and free of most copyright and licensing restrictions.”
– Budapest Open Access Declaration

#SCAN ME

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Open access literature is defined as “digital, online, free of charge, and free of most copyright and licensing restrictions.” The recommendations of the [Budapest Open Access Declaration](#) —including the use of liberal licensing (such as CC BY)— is widely recognized in the community as a means to make a work truly open access.

Research Data Sharing

Datasets About Topics

Welcome to UiTM Open Data Repository

UiTM Open Data Repository was allowing researchers and students to submit their work on data that has been used in their research papers. This data is publicly available to be used for others research. The full papers is available in UiTM Institutional Repository.

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What is Research Data Management (RDM)?

Research data management (RDM) refers to the organisation, storage, and preservation of data created during a research project.

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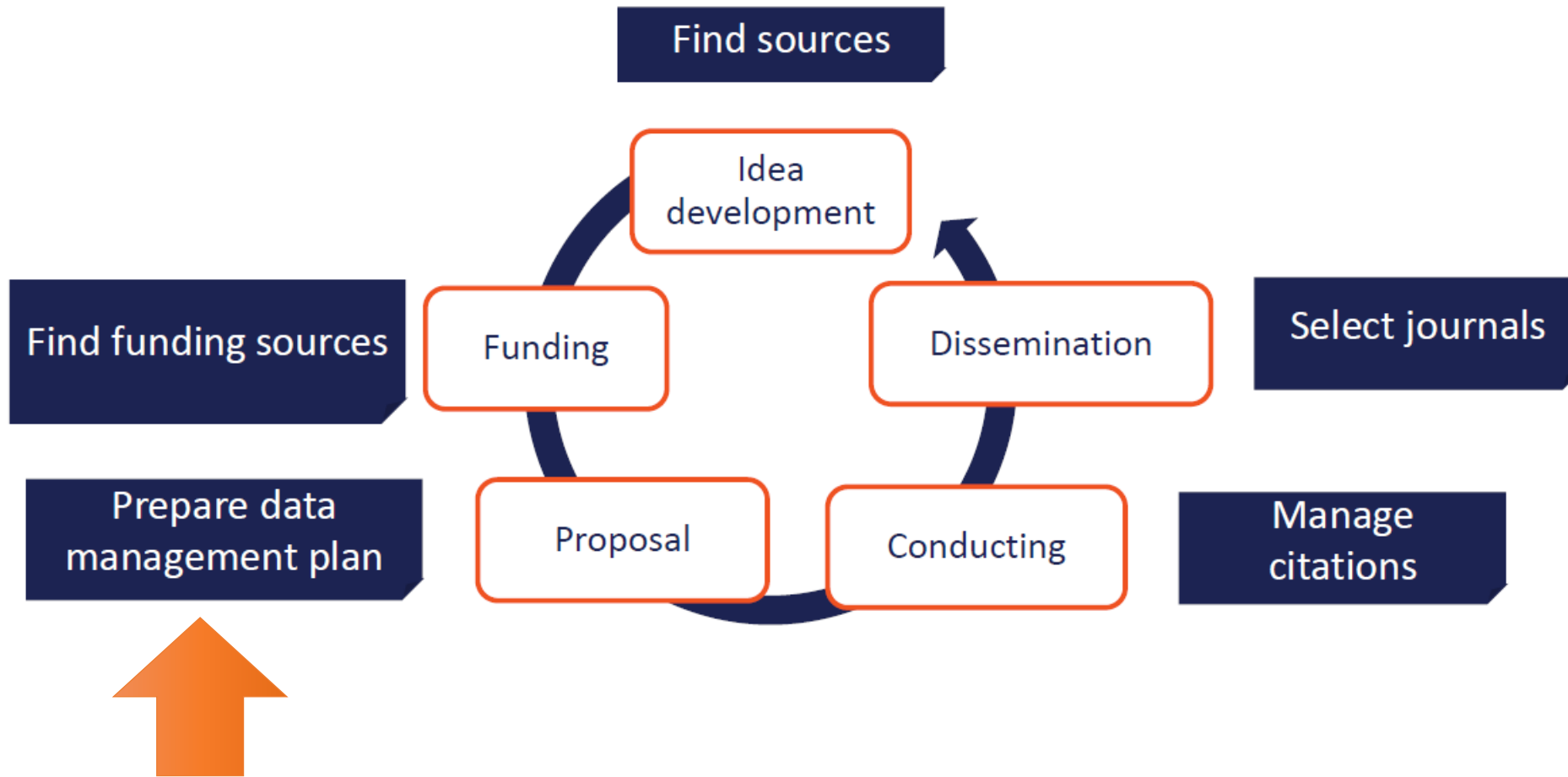
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- Using Malaysian Qualifications Agency (MQA) Standards as a "Wake-Up Call" to Information Resource Assessment: An Early View**
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- The Impact of Engineering Library Online Databases on Academics in Selected Universities in Malaysia**
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Libraries in most of the academic university always strive to serve the customers research needs. This include by investing on library online databases. Library online databases subscribed by the library were regarded as a main source for...
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- Users' and librarians' perceptions of school resource center koha library automation implementation a case study of school resource center at kolej tingkatan enam Petaling Jaya**
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This paper discusses the findings of qualitative and quantitative data analysis on users' and librarians' perceptions of school resource center KOHA library automation which has been installed in the library. Descriptive statistics by using SPSS...
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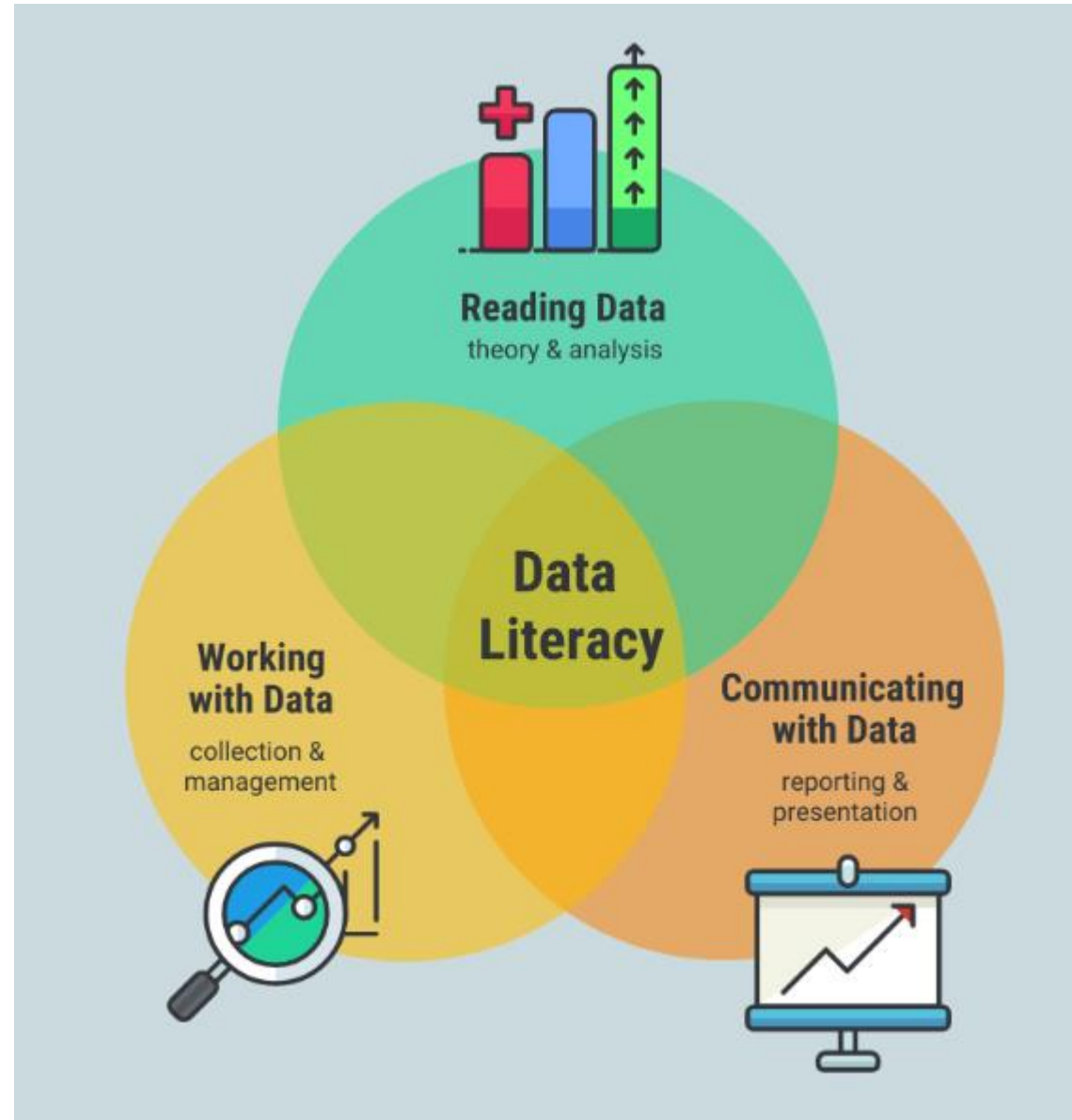
Suggestion for next steps?

- Research Data Management
- Data Literacy
- Citizen Science

Suggestion for next steps: Research Data Management



Suggestion for next steps: Data Literacy





Suggestion
for next
steps: Citizen
Science

**Open Science is the best way to
achieve all the SDGs**



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The Contribution of Open Science to SDGs

5P Principles								SECTOR	
PEOPLE	End poverty and hunger, and ensure dignity and equality, and in a healthy environment.							Social	
PROSPERITY	Ensure prosperous and fulfilling lives in harmony with nature							Economic	
PLANET	Protect the planet and natural resources and climate								Environment
PEACE	Foster peaceful and inclusive society								Fostering peace and partnerships
PARTNERSHIP	Implement the agenda through a global partnership								

THANK YOU



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