



TENTATIF

8 – 9 OGOS 2023

9 OGOS 2023 | SELASA

8.30 – 8.45 AM

PENDAFTARAN

8.45 – 10.00 AM

UTM INSTITUTIONAL REPOSITORY (UTM-IR)

10.00 – 10.30 AM

MINUM PAGI

10.30 AM – 1.00 PM

HANDS-ON & KUIZ

1.00 – 2.00 PM

REHAT

2.00 – 4.00 PM

UTM RESEARCH DATA MANAGEMENT (UTM-RDM)

4.00 – 4.30 PM

MINUM PETANG & BERSURAI



BAB 4

UTM RESEARCH DATA MANAGEMENT (UTM-RDM)

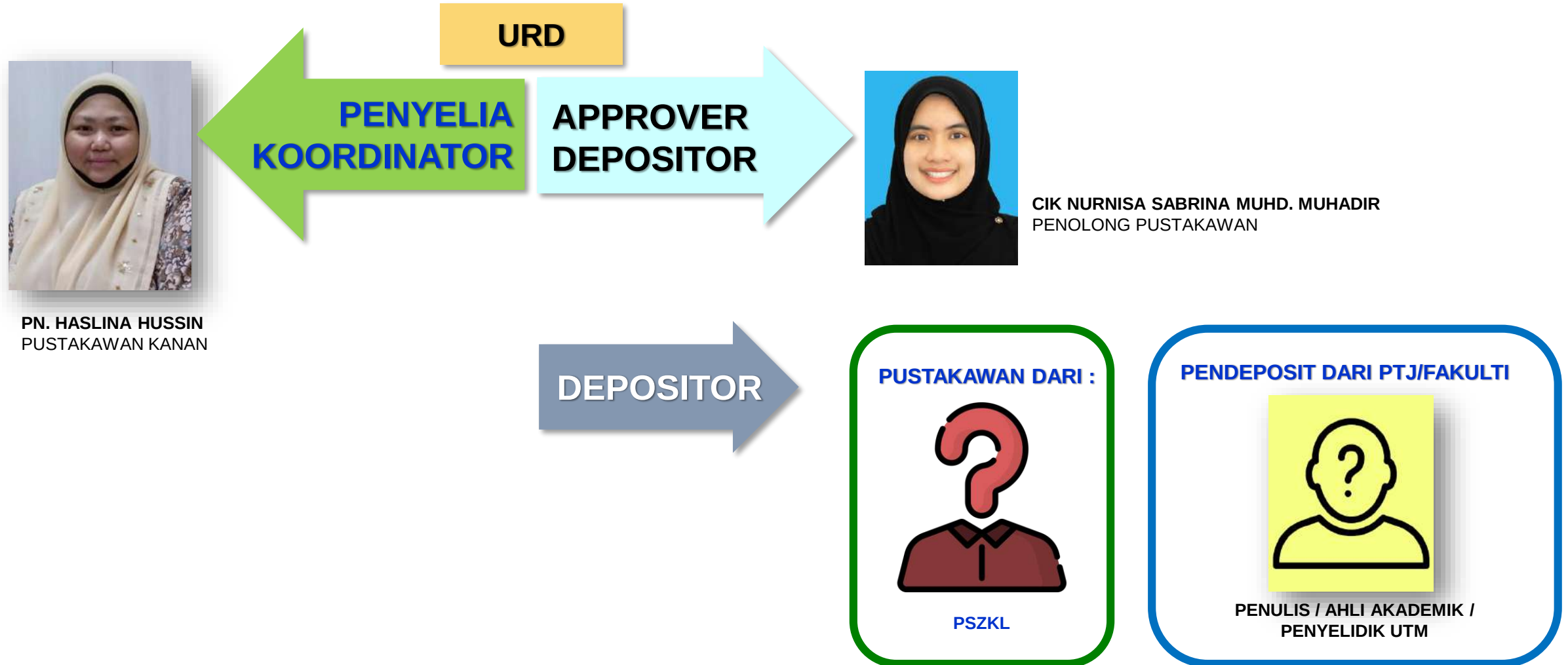
RESEARCH DATA MANAGEMENT (RDM)

- ❑ PENGENALAN
- ❑ KOLEKSI
- ❑ PENCAPAIAN
- ❑ SAINS TERBUKA
- ❑ PROSES KERJA
- ❑ AKSES



UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM



PENGENALAN

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

- Usaha pembangunan Sistem UTM Library - RDM (Research Data Management) adalah selaras dengan inisiatif Open Science UTM.
 - UTM merupakan salah satu daripada 5 UA yang terlibat dalam ***Pilot Initiative : Linking Platform for sharing of Research Data – Malaysian Open Science Alliance : Malaysia Research University Network.***
- Dibangunkan pada Februari 2020 oleh Perpustakaan UTM dengan kerjasama UTMDigital.
 - Sistem ini menggunakan platform eprints → pangkalan data untuk mendeposit metadata dan fail pelbagai format sebagai sokongan kepada maklumat penyelidikan yang dikongsikan melalui sistem ini.
- Jun 2020 – Sistem UTM Library – RDM ini berjaya disediakan sebagai satu platform di peringkat pembangunan dan percubaan.
 - untuk mengkaji 'keserasian' sistem ini dengan keperluan struktur RDM itu sendiri.
- **Mac 2023** – Perisian sumber terbuka **Dspace7** telah menggantikan Eprints sebagai platform baharu sistem UTM-RDM.



UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

KOLEKSI

TESIS



Fasa I : Peringkat Doktor Falsafah
Fasa II : Peringkat Sarjana

REPOSITORI TERBUKA



Semakan secara dalam talian
melalui internet kepada sumber
repository terbuka

PENYELIDIKAN



Ongoing research data

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

TESIS DOKTOR FALSAFAH

BIL.	FAKULTI
1	Faculty of Science
2	Azman Hashim International Business School
3	Faculty of Engineering - School of Computing*
4	Faculty of Geoinformation and Real Estate
5	Faculty of Engineering - School of Civil Engineering
6	Faculty of Management
7	Faculty of Built Environment & Surveying
8	Faculty of Engineering - School of Mechanical Engineering
9	Faculty of Engineering - School of Chemical & Energy Engineering
10	Faculty of Education
11	Faculty of Biosciences and Medical Engineering
12	Azman Hashim International Business School

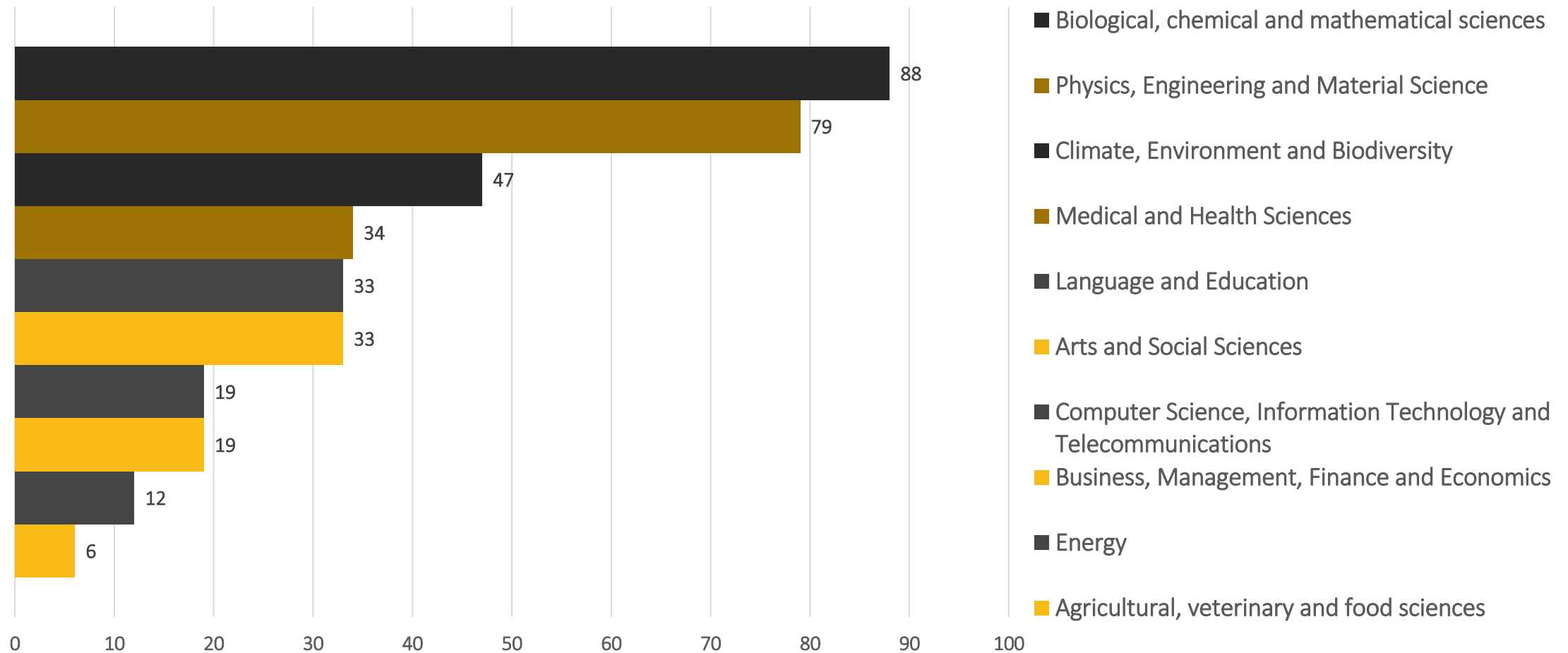
REPOSITORI TERBUKA

BIL.	FAKULTI
1	Zenodo
2	Figshare
3	Mendeley Data
4	Harvard Dataverse
5	IEEE DataPort

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

PENCAPAIAN : JUN 2023



UTM-RDM

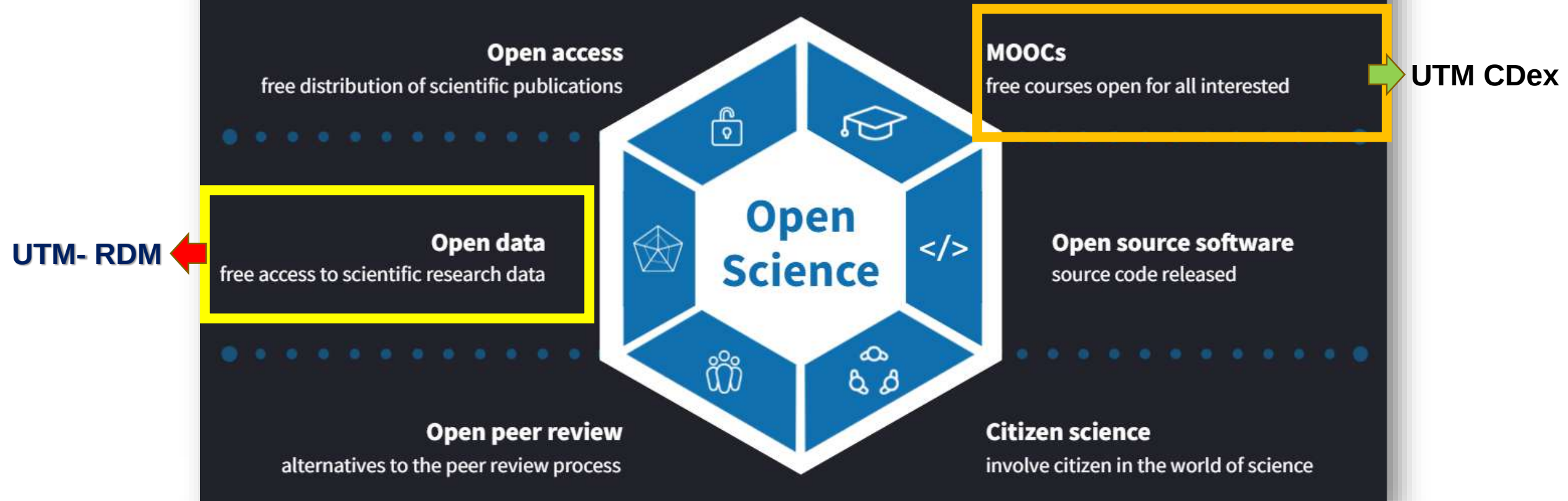
UTM RESEARCH DATA MANAGEMENT – UTM-RDM

BIL.	BIDANG	JUMLAH	PERATUS
1	Agricultural, veterinary and food sciences	6	1.6
2	Energy	12	3.2
3	Business, Management, Finance and Economics	19	5.1
4	Computer Science, Information Technology and Telecommunications	19	5.1
5	Arts and Social Sciences	33	8.9
6	Language and Education	33	8.9
7	Medical and Health Sciences	34	9.2
8	Climate, Environment and Biodiversity	47	12.7
9	Physics, Engineering and Material Science	79	21.4
10	Biological, chemical and mathematical sciences	88	23.8
JUMLAH KESELURUHAN		370	NA

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

THE COMPONENTS OF OPEN SCIENCE



URL : <https://view.genial.ly/6005b365e1ef6e0d2aa37a40/horizontal-infographic-review-the-components-of-open-science>

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM



What is Open Science?

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

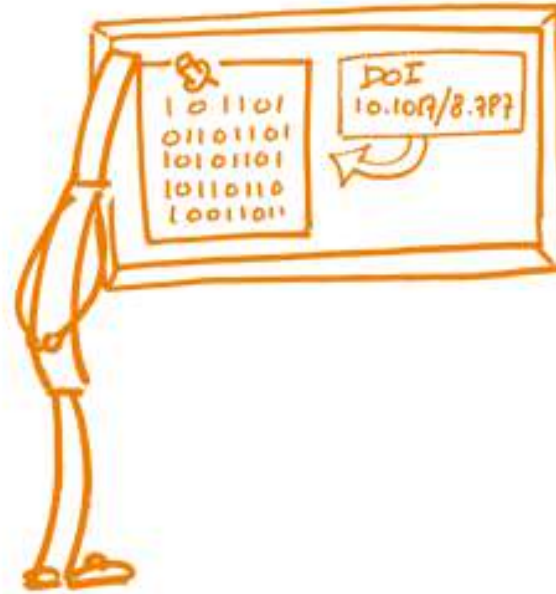
It demands science, which includes **pure science and social science**, to be done with integrity that assures accuracy of research data, in an open, reliable and reproducible fashion.

For Open Science, data sharing is guided by **the FAIR principle**.

FAIR DATA PRINCIPLES



FINDABLE



ACCESSIBLE



INTEROPERABLE



REUSABLE

FAIR stands for Findable, Accessible, Interoperable and Reusable. Specifically, FAIR is described as:

- 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
- Accessible** – Data can be retrieved using the outlined protocols
- Interoperable** – System can be used with other tools
- Reusable** - Data is well-defined and can be used for different purposes and in different settings

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

PENGLIBATAN PERPUSTAKAAN UTM DALAM MALAYSIA OPEN SCIENCE PLATFORM (MOSP)



MEMBER
Madam Nor Asikin
Mohamad

Chief Librarian
Raja Zarith Sofiah Library
Universiti Teknologi Malaysia
(UTM)

Malaysia Open Science Alliance

*Chaired by : Professor ChM Dr Noorsaadah Abd Rahman FASc
Professor, Institute of Advanced Study, University of Malaya*

Working Group on Infrastructure

*Headed by : Dr. Liew Chee Sun
Head of Data Intensive Computing Centre, University of Malaya*



MEMBER
Mr Md Razib Karno

Head, Automation Division, Universiti
Teknologi Malaysia

OPEN SCIENCE INITIATIVES IN MALAYSIA

MEMBERS OF THE NATIONAL ALLIANCE ON MALAYSIA OPEN SCIENCE PLATFORM (MOSP)

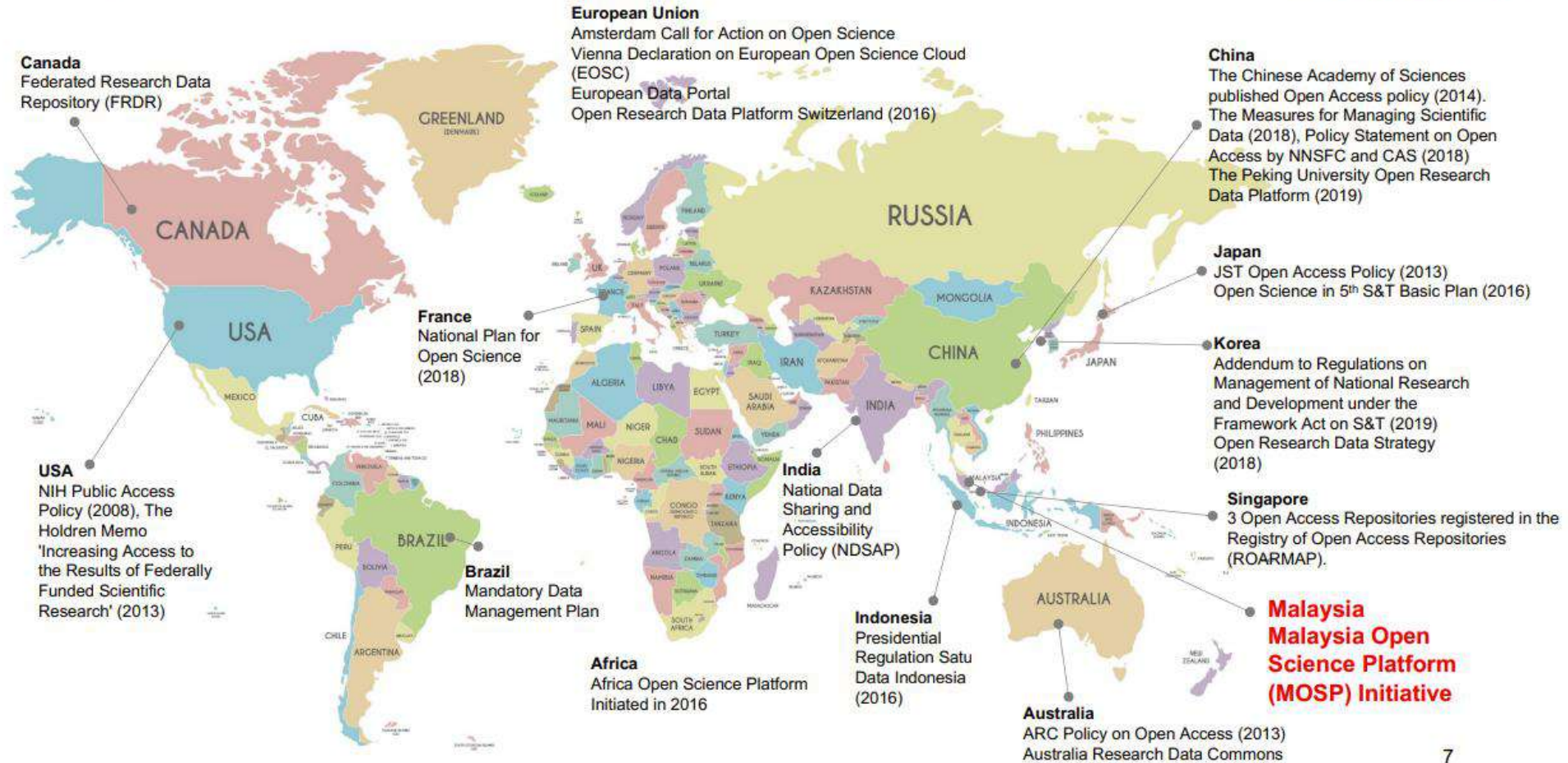
- Malaysian Administrative Modernization and Management Planning Unit (MAMPU)
- Ministry of Energy, Science, Technology, Environment and Climate Change – Malaysia Science and Technology Information Center (MASTIC)
- Ministry of Education (MOE)
- **Malaysia Research University Network (MRUN)**
- Malaysian Research & Education Network (MYREN)
- Academy of Sciences Malaysia (ASM)
- University of Malaya (UM)
- International Science Council Regional Office for Asia and the Pacific (ISC ROAP)



UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

Open Science Initiatives in Other Countries





LAUNCHING CEREMONY OF **MALAYSIA OPEN SCIENCE PLATFORM**

RSVP here:



16 May 2023
[Tuesday]

2:30PM
(Kuala Lumpur Time, GMT +8)

Sunway Putra Hotel
Kuala Lumpur

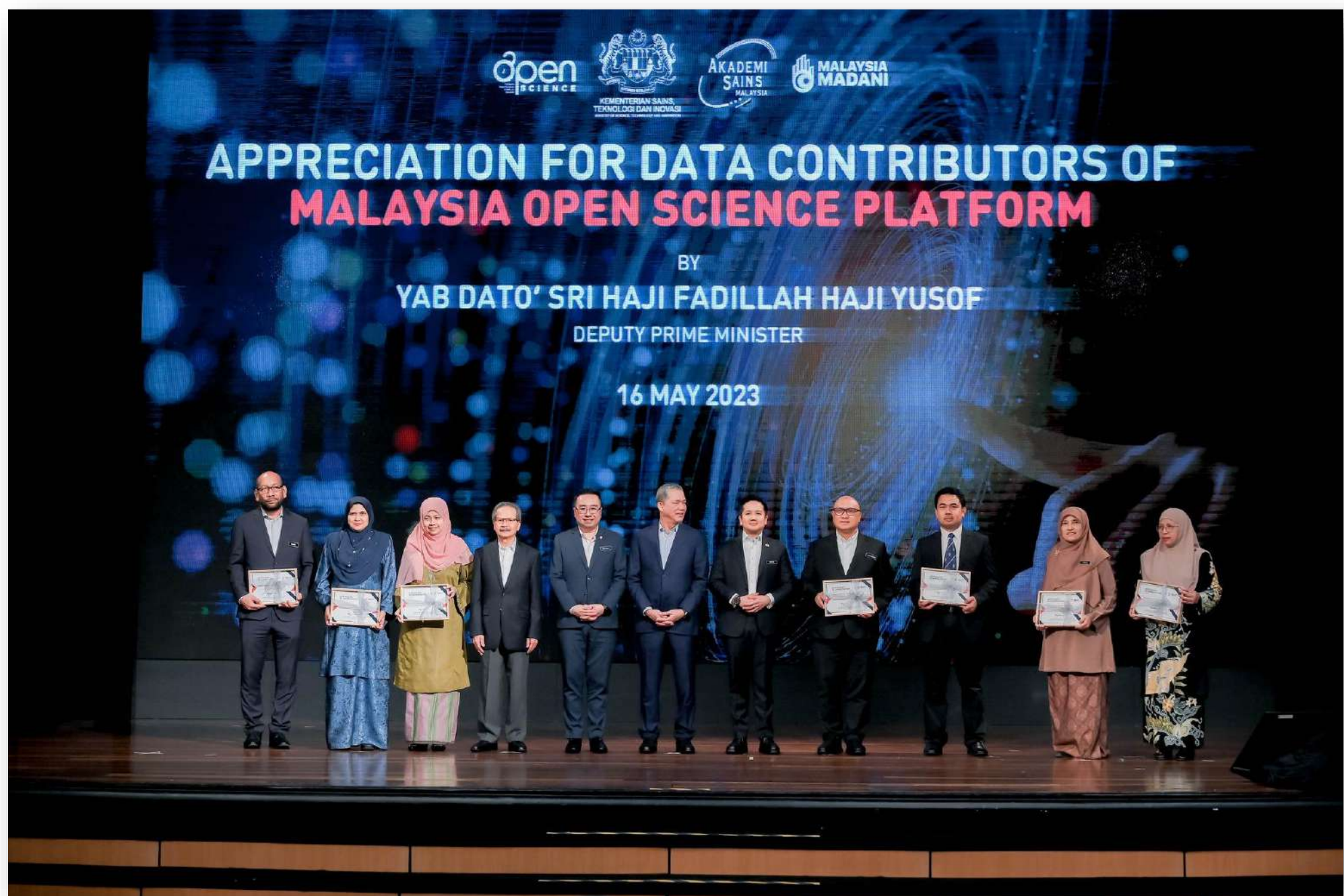
For further information, please contact Ms Nur Hanisah Ismail
(hanisah@akademisains.gov.my) at 03 6203 0633

LAUNCHING CEREMONY OF MALAYSIA OPEN SCIENCE PLATFORM

EVENT DATE: 16 MAY 2023 (TUESDAY)

**EVENT VENUE: GRAND BALLROOM, LEVEL 9,
SUNWAY PUTRA HOTEL KUALA LUMPUR,
100 JALAN PUTRA, 50350 KUALA LUMPUR
AGENDA**

Time	Agenda
2:00 pm	Arrival and Registration of Esteemed Guests
2:30 pm	Arrival of VIPs
2:45 pm	Welcoming Remarks by YB Minister Chang Lih Kang Minister of Science, Technology and Innovation
3:00 pm	Officiating Speech by YAB Dato' Sri Haji Fadillah Haji Yusof Deputy Prime Minister
3:15 pm	Launching Ceremony by YAB Dato' Sri Haji Fadillah Haji Yusof Deputy Prime Minister Appreciation to Data Contributors of MOSP Certificate of Merit Conferment for Data Stewardship on Open Science
3:45 pm	Press Conference
4:00 pm	Forum on Open Science: Democratizing Science to Foster Public Trust Towards an Impactful Collaboration
5:30 pm	Tea Break Adjourn and Networking



Puan Nor Asikin Mohamad, Ketua Pustakawan PUTM mewakili UTM menerima sijil penghargaan (paling kanan)

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

PROSES KERJA

TINDAKAN : PENOLONG PUSTAKAWAN

PENERIMAAN / PENGESANAN SUMBER

- Menerima senarai bahan tesis UTM daripada Pustakawan URD.
- Mengesan sumber bahan dari sistem DMS.
- Mengesan senarai sumber bahan daripada system repositori terbuka melalui internet.

SEMAKAN JUDUL & SUNTINGAN FAIL LAMPIRAN

- Menyemak senarai agihan untuk memastikan hanya JUDUL BAHARU sahaja yang akan diproses.
- Menyunting isi kandungan bahan untuk dijadikan fail lampiran kepada rekod bahan (pdf) – bahan tesis hanya senarai lampiran sahaja dijadikan fail pdf.
- Judul bahan yang sama, format penulisan berbeza → **TIDAK** diterima untuk pendepositan.

INPUT METADATA & DEPOSIT BAHAN

- Mencipta rekod bahan bagi judul yang lengkap bersama fail lampiran.
- Menginput metadata untuk maklumat bahan yang diproses.
- Memuatnaik fail lampiran pada rekod bahan yang dicipta.
- Melaksanakan proses mendeposit rekod yang telah lengkap ke dalam sistem UTM-RDM.

SEMAKAN & KELULUSAN REKOD

- Menyemak rekod bahan untuk memastikan metadata & fail lampiran adalah tepat dan betul.
- Membuat proses pengesahan di system UTM-RDM dan MOSP (selepas proses data harvesting dilaksanakan).

AKSES BAHAN OLEH PENGGUNA

- Pengguna mengakses kandungan repositori melalui sistem UTM-RDM & MOSP.

Platform UTM-RDM (Dspace7)

Platform UTM-RDM & MOSP



<http://openscience.utm.my>

UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

AKSES

Data dari system RDM boleh diakses melalui 2 platform :

- **UTM-RDM** – sistem yang dibangunkan oleh PUTM sendiri menggunakan perisian sumber terbuka Dspace7.
- **Malaysia Open Science Platform (MOSP)** – system yang dibangunkan oleh MOSTI menggunakan perisian yang dibangunkan oleh pembekal sistem.



UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM



URL : <http://openscience.utm.my>

WhatsApp x Anugerah S x Facebook x Facebook x Inbox (2,66 x Welcome t: x MOSP x UTM Open x

Not secure | openscience.utm.my/workspaceitems/576/edit

UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Communities & Collections All of UTM Open Science

Home • Edit Submission

Drop files to attach them to the item, or [browse](#)

Collection Agricultural, veterinary and food sciences [Add more +](#)

Describe

Author

Author

Enter the author's name (Family name, Given names).

+ Add more

Title *

Title

Enter the main title of the item.

Other Titles

Other Titles

If the item has any alternative titles, please enter them here.

+ Add more

Date of Issue *

year month day

Please give the date of previous publication or public distribution.
You can leave out the day and/or month if they aren't applicable.

Publisher

Publisher

Enter the name of the publisher of the previously issued instance of this item.

Discard Saved Save Save for later + Deposit

Komponen 1 :
Metadata

The screenshot displays the 'Edit Item' page in the Open Science UTM workspace. The page is titled 'openseience.utm.my/workspaceitems/576/edit'. The main content area is a form for editing an item. The form has a 'Collection' dropdown menu set to 'Agricultural, veterinary and food sciences'. Below this, there are several sections for adding metadata, each with a red arrow pointing to it:

- Citation:** A section with a text input field and a description: 'Please give the date of previous publication or public distribution. You can leave out the day and/or month if they aren't applicable.' Below the input field is a description: 'Enter the standard citation for the previously issued instance of this item.'
- Series/Report No.:** A section with two text input fields labeled 'Series' and 'Report No.' and a description: 'Enter the series and number assigned to this item by your community.'
- Identifiers:** A section with a text input field labeled 'ISSN' and a description: 'If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes.'
- Type:** A section with a dropdown menu and a description: 'Select the type of content of the item.'
- Language:** A section with a dropdown menu and a description: 'Select the language of the main content of the item. If the language does not appear in the list, please select 'Other'. If the content does not really have a language (for example, if it is a dataset or an image) please select 'N/A'.'

At the bottom of the form, there is a 'Describe' section. The bottom of the page features a navigation bar with buttons: 'Discard', 'Saved', 'Save', 'Save for later', and 'Deposit'.

Komponen 1 : Metadata

WhatsApp x Anugerah S x Facebook x Facebook x Inbox (2,66 x Welcome tr x MOSP x UTM Open x

Not secure | openscience.utm.my/workspaceitems/576/edit

Drop files to attach them to the item, or [browse](#)

Collection Agricultural, veterinary and food sciences [Add more +](#)

Describe [✓](#) [^](#)

Subject Keywords

Subject Keywords [✕](#)

Enter appropriate subject keywords or phrases.

[+ Add more](#)

Abstract

Abstract

Enter the abstract of the item.

Sponsors

Sponsors

[Discard](#) [Saved](#) [Save](#) [Save for later](#) [+ Deposit](#)

Komponen 1 :
Metadata

(1) WhatsApp x Anugerah S x Facebook x Facebook x Inbox (2,66 x Welcome t: x MOSP x UTM Open x

Not secure | openscience.utm.my/workspaceitems/576/edit

Drop files to attach them to the item, or [browse](#)

Collection Agricultural, veterinary and food sciences [Add more +](#)

 **Description**

Description

Enter any other description or comments in this box.

Komponen 1 :
Metadata

 **Deposit license**

NOTE: PLACE YOUR OWN LICENSE HERE This sample license is provided for informational purposes only. NON-EXCLUSIVE DISTRIBUTION LICENSE By signing and submitting this license, you (the author(s) or copyright owner) grants to DSpace University (DSU) the non-exclusive right to reproduce, translate (as defined below), and/or distribute your submission (including the abstract) worldwide in print and electronic format and in any medium, including but not limited to audio or video. You agree that DSU may, without changing the content, translate the submission to any medium or format for the purpose of preservation. You also agree that DSU may keep more than one copy of this submission for purposes of security, back-up and preservation. You represent that the submission is your original work, and that you have the right to grant the rights contained in this license. You also represent that your submission does not, to the best of your knowledge, infringe upon anyone's copyright. If the submission contains material for which you do not hold copyright, you represent that you have obtained the unrestricted permission of the copyright owner to grant DSU the rights required by this license, and that such third-party owned material is clearly identified and acknowledged within the text or content of the submission. IF THE SUBMISSION IS BASED UPON WORK THAT HAS BEEN SPONSORED OR SUPPORTED BY AN AGENCY OR ORGANIZATION OTHER THAN DSU, YOU REPRESENT THAT YOU HAVE FULFILLED ANY RIGHT OF REVIEW OR OTHER OBLIGATIONS REQUIRED BY SUCH CONTRACT OR AGREEMENT. DSU will clearly identify your name(s) as the author(s) or owner(s) of the submission, and will not make any alteration, other than as allowed by this license, to your submission.

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[Discard](#) [Saved](#) [Save](#) [Save for later](#) [+ Deposit](#)

← → ↻ ⚠ Not secure | openscience.utm.my/workspaceitems/576/edit 🔍 📄 ☆ | 📄 🗑 Close

Edit bitstream

Title *

Enter the name of the file.

Description

Description

🗑

Enter a description for the file

+ Add more

Access condition type

▼

🗑

Select an access condition to apply on the bitstream once the item is deposited

Grant access from *

From

📅

Select the date from which the related access condition is applied

Grant access until *

Until

📅

Select the date until which the related access condition is applied

+ Add more

✕ Cancel

💾 Save

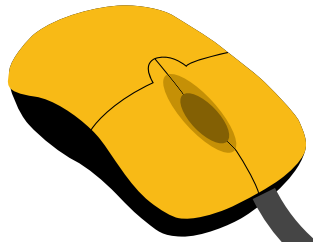
Komponen 2 :
Fail data
penyelidikan

[By Issue Date](#)[By Author](#)[By Title](#)[By Subject](#)

UTM Open Science

RESEARCH DATA REPOSITORY

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List of Communities

 > [Universiti Teknologi Malaysia - Res](#)

Collections of this Community

Now showing 1 - 10 of 10

 [Agricultural, veterinary and food sciences](#)

E.g. Halal Food, premium tropical fruits, local super foods

 [Arts and Social Sciences](#)

E.g. Psychology, Culture, Arts & Digitalised Tourism

 [Biological, chemical and mathematical sciences](#)

E.g. Molecular Biology, Biochemistry, Biotechnology, Organic Chemistry, Bioinformatics, etc

 [Business, Management, Finance and Economics](#)

E.g. Islamic finance, fintech etc...

 [Climate, Environment and Biodiversity](#)

E.g. meteorology, forestry, precision biodiversity, marine and oceanography, ecology

 [Computer Science, Information Technology and Telecommunications](#)

E.g. Artificial Intelligence, IR 4.0, Machine Learning, Block Chain

 [Energy](#)

E.g. Renewable Fuels, Micro-grid energy storage systems

 [Language and Education](#)

E.g. Language, Online education, STEM

 [Medical and Health Sciences](#)

E.g. Precision Medicine, Digital Health, dentistry, pharmacology, pharmacy

 [Physics, Engineering and Material Science](#)

E.g. Smart Technology & Systems, Smart Cities, Composite Material, Optics, Polymer Science

➔ Agricultural, veterinary and food sciences

Permanent URI for this collection <http://openscience.utm.my/handle/123456789/32>

Browse

Recent Submissions

By Issue Date

By Author

By Title

By Subject

➔ Now showing 1 - 5 of 6



Item

➔ Identification and characterisation of quantitative trait loci linked with tolerance to saline-alkaline stress at germination stage in indica rice (*Oryza sativa* L.)

(Universiti Teknologi Malaysia, 2017) Khan, Samiullah

As the direct seeding of rice is getting popular, the farmers have shifted from traditional transplantation method to direct seeding method. The problem with this method however is the direct exposure of seeds to abiotic stresses that affect crop establishment. Studies have not been conducted so far to improve the germination tolerance

✓ Show more



Item

➔ Proteome profiling and molecular dynamics simulation of Malaysian upland rice

(Universiti Teknologi Malaysia, 2017) Mohd. Arif, Shahkila

Rice is one of the most consumed cereals all over the world. Unfortunately, its production has been decreasing since the past few decades due to several constraints primarily due to biotic and abiotic stresses. Hence, upland rice would be a good alternative as it is a stress-tolerant plant that possessed many excellent qualities and

✓ Show more

[← Back to Results](#)

Identification and characterisation of quantitative trait loci linked with tolerance to saline-alkaline stress at germination stage in indica rice (*Oryza sativa* L.)



Files

[A_Samiullah.pdf\(14.83 MB\)](#)
[B_Samiullah.pdf\(14.83 MB\)](#)
[D_Samiullah.pdf\(14.83 MB\)](#)
[F_Samiullah.pdf\(14.83 MB\)](#)
[C_Samiullah.pdf\(14.83 MB\)](#)

[Show more](#)

Date

2017

Authors

Khan, Samiullah

Abstract

As the direct seedling from traditional trans problem with this r otic stresses that a ducted so far to im tions. Therefore, th analysis of toleranc Parental varieties F rieties on the basis mapping populatio Pak Basmati as ser mination percenta (GE), germination v (PV), germination c tion time (MGT) w (GVI), shoot length recorded. Parental Phenotyping of F3 (pH8/15 dS.m-1) o that germination a

Publisher

Universiti Teknologi Malaysia

ers was used to construct molecular linkage map, with an average interval size of 7.63cM with four gaps of = 40cM and the total length of 3435.5cM. Quantitative Trait Loci (QTL) Cartographer was used for genomic analysis using three mapping techniques i.e. simple interval mapping (SIM), composite interval mapping (CIM) and multiple interval mapping (MIM). Thirty-three QTLs (17 major and 16 minor) were identified using SIM. Forty QTLs (14 major and 26 minor) were identified by CIM. Sixty QTLs were identified using MIM technique. The parental varieties used in this study are potential candidates for abiotic stress studies. These findings would be beneficial in rice breeding programs to develop tolerant cultivars for the saline-alkaline environment through marker assisted selection

Description

Thesis (Ph.D (Biosciences))

Keywords

Biosciences and medical engineering

URI

<http://openscience.utm.my/handle/123456789/383>

Collections

Agricultural, veterinary and food sciences

[Full item page](#)

Identification and characterisation of quantitative trait loci linked with tolerance to saline-alkaline stress at germination stage in indica rice (*Oryza sativa* L.)

dc.contributor.author Khan, S

dc.date.accessioned 2023-

dc.date.available 2023-

dc.date.issued 2017

dc.description Thesis

dc.description.abstract As the direct effect

dc.description.sponsorship Faculty of Biosciences and Medical Engineering

dc.identifier.uri <http://openscience.utm.my/handle/123456789/383>

dc.language.iso en

dc.publisher Universiti Teknologi Malaysia

dc.subject Biosciences and medical engineering

dc.title Identification and characterisation of quantitative trait loci linked with tolerance to saline-alkaline stress at germination stage in indica rice (*Oryza sativa* L.)

dc.type Thesis

dc.type Dataset

Files

Original bundle

Now showing 1 - 5 of 6



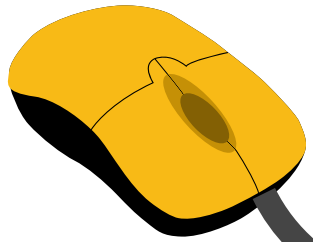
Name: A_Samiullah.pdf

[Download](#)

Size: 14.83 MB

Format: Adobe Portable Document Format

Description: DNA quantification data for F2 population of 129 individuals using Ikeda method



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➡ Browsing by Issue Date

Filter results by year or month



(Choose year) ▾



(Choose month) ▾

Filter results by date

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UTM-IR

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

The screenshot displays the UTM-RDM website interface. At the top, the URL bar shows 'mosp.gov.my'. The header includes logos for the Malaysian government, AKADEMI SAINS MALAYSIA, and open SCIENCE, along with navigation links for Sign in, Register, MY, EN, About, News, Data Repositories, Research Fields, Data Stewards, and Contact Us. The main content area features the tagline 'One Platform, Unlimited Possibilities' and 'Your gateway to Malaysian research data'. A search bar with the placeholder 'Search for Data' and a dropdown menu for 'All Fields' (with options: Title, Description, Publisher, Subject / Keyword) is shown. To the right, an illustration depicts a large padlock being unlocked, with data visualizations and people interacting with the system. Below this, the text 'Dive into the world of science' is followed by 'Malaysian research at a glance'. At the bottom, four statistics are presented: 1,408 Datasets, 242 Data Stewards, 8 Data Repositories, and 4,521 Visitors.

One Platform,
Unlimited Possibilities

Your gateway to Malaysian research data

Search for Data All Fields

All Fields
Title
Description
Publisher
Subject / Keyword

Dive into the world of science

Malaysian research at a glance

1,408
Datasets

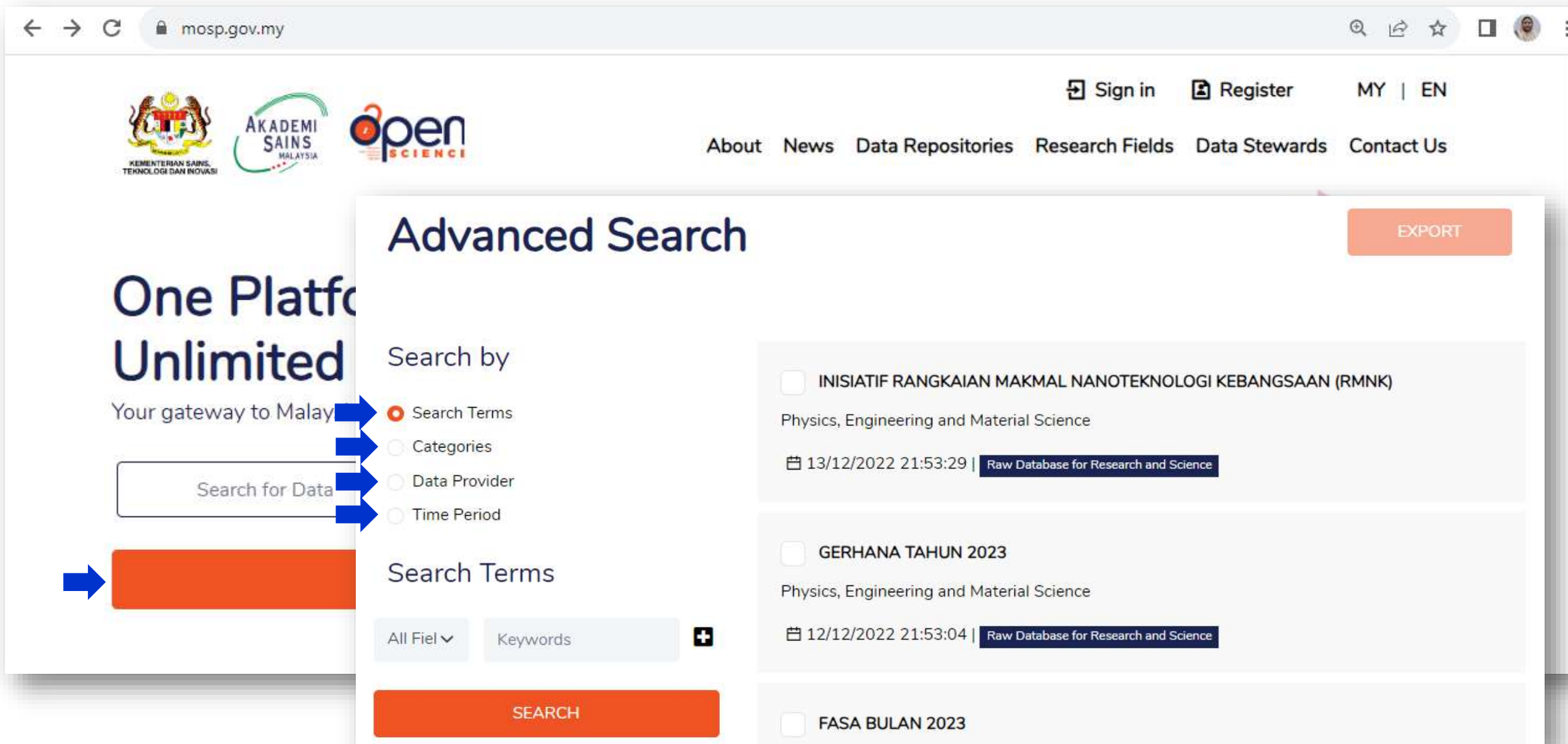
242
Data Stewards

8
Data Repositories

4,521
Visitors

<https://mosp.gov.my/>

UTM RESEARCH DATA MANAGEMENT – UTM-RDM



UTM-RDM

UTM RESEARCH DATA MANAGEMENT – UTM-RDM

Advanced Search

Search by

- ☒ Search Terms
- ☐ Categories
- ☐ Data Provider
- ☐ Time Period

Search Terms

All Fiel

Keywords



SEARCH

Advanced Search

Search by

- ☐ Search Terms
- ☒ Categories
- ☐ Data Provider
- ☐ Time Period

Category

- ☐ Medical and Health Sciences
- ☐ Climate, Environment and Biodiversity
- ☐ Energy
- ☐ Physics, Engineering and Material Science
- ☐ Computer Science, Information Technology and Telecommunications
- ☐ Agricultural, Veterinary and Food Sciences
- ☐ Biological, Chemical and Mathematical Sciences
- ☐ Language and Education
- ☐ Arts and Social Sciences
- ☐ Business, Finance and Economics

SEARCH

Advanced Search

Search by

- ☐ Search Terms
- ☐ Categories
- ☒ Data Provider
- ☐ Time Period

Data Provider

- ☐ Universiti Malaya
- ☐ Universiti Putra Malaysia
- ☐ Raw Database for Research and Science
- ☐ Malaysia Open Data Portal
- ☐ Universiti Teknologi Malaysia
- ☐ Universiti Kebangsaan Malaysia
- ☐ Universiti Sains Malaysia
- ☐ Akademi Sains Malaysia

SEARCH

Advanced Search

Search by

- ☐ Search Terms
- ☐ Categories
- ☐ Data Provider
- ☒ Time Period

From Year

To Year

SEARCH



TERIMA
KASIH