

Singapore Management University

## Institutional Knowledge at Singapore Management University

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COAR Asia OA Meeting 2021

COAR Asia OA Meeting 2021

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Oct 25th, 2:50 PM

### Open access and open science in Singapore

Lian-Ping OOI

*National Institute of Education, Singapore*

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# Community Update

## Open Access and Open Science in Singapore

### Ooi Lian Ping

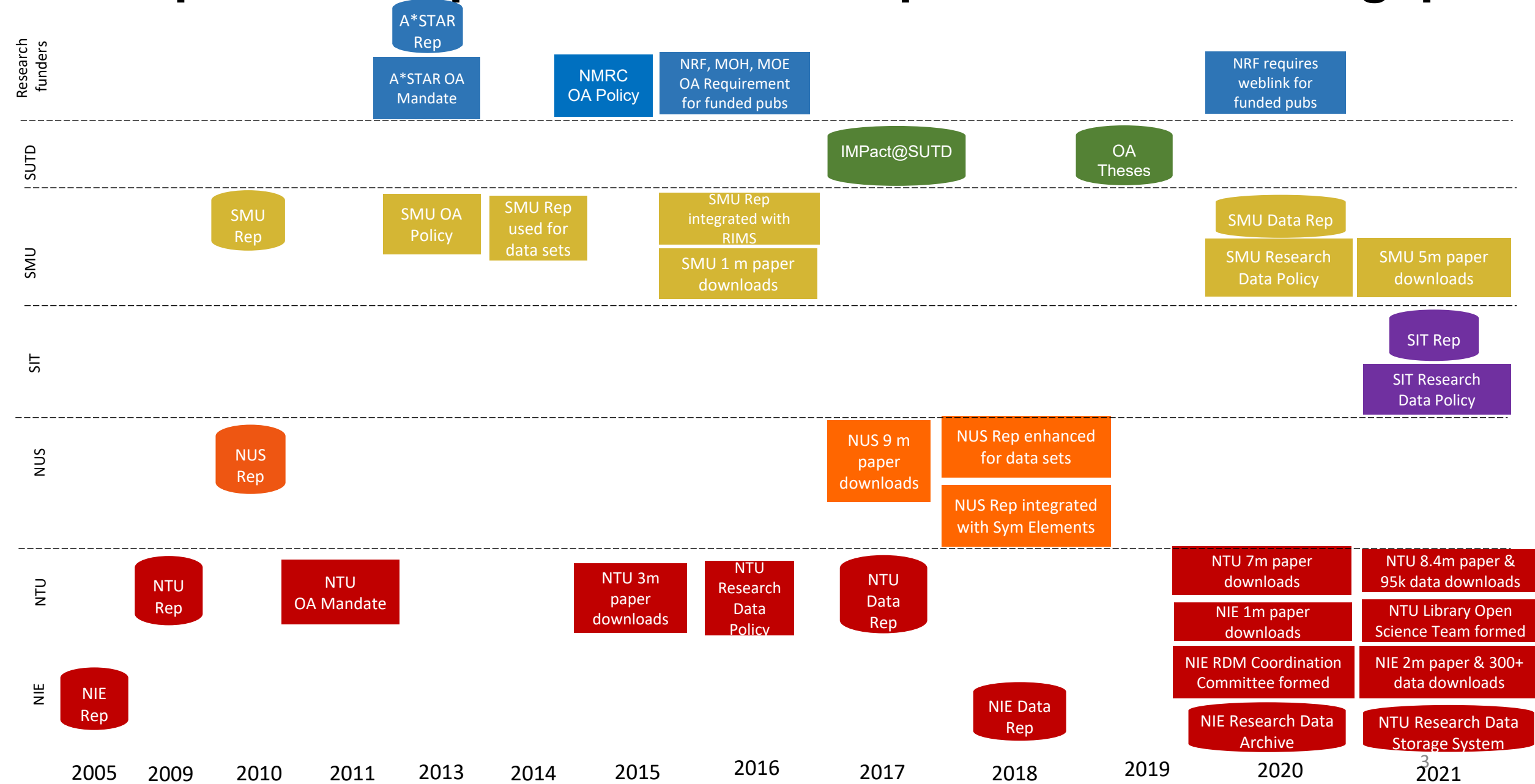
National Institute of Education, Nanyang Technological University (NIE NTU),  
Singapore

(With inputs from A\*STAR, NUS, NTU, SIT, SMU, SUTD)

# Outline

- **Overview of Open Access and Open Science Development**
- **Introduction to Funding Bodies and Research Institutions**
- **Open Access and Open Science Initiatives in Singapore Institutions**

# Development of Open Access and Open Science in Singapore



# Institutions

Major Funding Bodies	Universities
<ul style="list-style-type: none"><li>• National Research Foundation (NRF)</li><li>• Agency for Science, Technology and Research (A*STAR)</li><li>• National Medical Research Council (NMRC)</li><li>• Ministry of Education (MOE)</li></ul>	<ul style="list-style-type: none"><li>• Nanyang Technological University (NTU)<ul style="list-style-type: none"><li>• National Institute of Education (NIE NTU)</li></ul></li><li>• National University of Singapore (NUS)</li><li>• Singapore Institute of Technology (SIT)</li><li>• Singapore Management University (SMU)</li><li>• Singapore University of Social Sciences (SUSS)</li><li>• Singapore University of Technology and Design (SUTD)</li><li>• Yale-NUS College</li></ul>

# Mandates & Policies (1)

Funding Bodies	Mandates / Policies
National Research Foundation (NRF)	<p>Requires research-performing institutions to have OA policies (Jul 2014) Requires submission of weblink to open access publication (Mar 2020) - Publications arising from its funded research to be made open access, no later than twelve months after the official date of publication.</p> <p><b>Allows the use of research grants for Article Processing Charges (APC)</b></p>
Agency for Science, Technology & Research (A*STAR)	<p>Open Access Mandate (Aug 2013)</p> <ul style="list-style-type: none"><li>• Peer-reviewed articles/conference proceedings made publicly available no later than 12 months after publication</li></ul> <p><b>Data Management Plan Pilot (in progress)</b> <b>Research Data Policy (in progress)</b></p> <p><b>Allows the use of research grants for Article Processing Charges (APC)*</b> *Refer to T&amp;C of specific funding</p>
National Medical Research Council (NMRC)	<p>Open Access of Publications (May 2015)</p> <ul style="list-style-type: none"><li>• Open access of peer-reviewed publications regardless of the funding quantum</li></ul> <p>Sharing of research data (Nov 2015)</p> <ul style="list-style-type: none"><li>• Mandatory for projects with <b>at least S\$250,000</b> of direct research cost</li></ul> <p><b>Allows the use of research grants for Article Processing Charges (APC)</b></p>

# Mandates & Policies (2)

Institutions	Mandates / Policies
Nanyang Technological University (NTU)	<a href="#">Open Access Policy</a> (Aug 2011, revised in 2021) <a href="#">Data Management Plan</a> (Apr 2016, revised in 2020) <a href="#">Research Data Policy</a> (Apr 2016, revised in 2020)
National Institute of Education (NIE NTU)	NIE Data Management Plan (May 2016, revised in 2020) NIE Research Data Management Policy & Guidelines (Jul 2017, revised in 2021)
National University of Singapore (NUS)	Self-archiving Mandate (in progress) Research Data Management Policy & Guidelines (Jul 2019, revised in 2020)
Singapore Institute of Technology (SIT)	<a href="#">Research Data Management Policy (Dec 2020)</a> <a href="#">Open Access Policy (in progress)</a>
Singapore Management University (SMU)	<a href="#">Open Access Policy</a> (Oct 2013) Research Data Policy (Jan 2020)
Singapore University of Design and Technology (SUTD)	Research Policy and Guidelines (2016) Data Treatment Policy (2017) <a href="#">Research Data Policy (in progress)</a>

# Repositories

Institution	Repositories	URL	Year launched
A*STAR	A*OAR	<a href="http://oar.a-star.edu.sg">http://oar.a-star.edu.sg</a>	2013
NTU	DR-NTU (Publications) [DSpace-CRIS] DR-NTU (Data) [Dataverse] <b>Research Data Storage System</b> <ul style="list-style-type: none"> <li>In-progress data, and finalised but sensitive data</li> </ul>	<a href="https://dr.ntu.edu.sg">https://dr.ntu.edu.sg</a> <a href="https://researchdata.ntu.edu.sg">https://researchdata.ntu.edu.sg</a> Intranet access	2009 2017 2021
NIE NTU	NIE Digital Repository [DSpace-CRIS] NIE Data Repository [Dataverse] <b>NIE Research Data Archive (Restricted)</b> <ul style="list-style-type: none"> <li>Data of completed projects and sensitive data</li> </ul>	<a href="https://repository.nie.edu.sg">https://repository.nie.edu.sg</a> <a href="https://researchdata.nie.edu.sg">https://researchdata.nie.edu.sg</a> Intranet access	2005 2018 2020
NUS	Scholarbank [DSpace-CRIS] <ul style="list-style-type: none"> <li>Publications and Data repository</li> </ul> Digital GEMS <ul style="list-style-type: none"> <li>Digitised materials collection</li> </ul>	<a href="https://scholarbank.nus.edu.sg">https://scholarbank.nus.edu.sg</a>  <a href="https://digitalgems.nus.edu.sg">https://digitalgems.nus.edu.sg</a>	2010  2018
SIT	<b>Institutional Research Repository (IRR) [Figshare]</b> <ul style="list-style-type: none"> <li>Publications and data repository</li> </ul>	<a href="https://irr.singaporetech.edu.sg">https://irr.singaporetech.edu.sg</a>	2021
SMU	InK [Digital Commons] Research Data Repository RDR [Figshare]	<a href="https://ink.library.smu.edu.sg">https://ink.library.smu.edu.sg</a> <a href="https://researchdata.smu.edu.sg">https://researchdata.smu.edu.sg</a>	2010 2020
SUTD	Institutional Repository (in process)	-	



# Open Access Publishing in Singapore

Increase in open access publications produced by research institutions.

Publication Years Till	% of OA Publications in <i>Scopus</i>	% of OA Publications in <i>Web of Science</i>
2020	23	24
2015	17	18
2010	12	13

Statistics correct as at 18 Oct 2021.

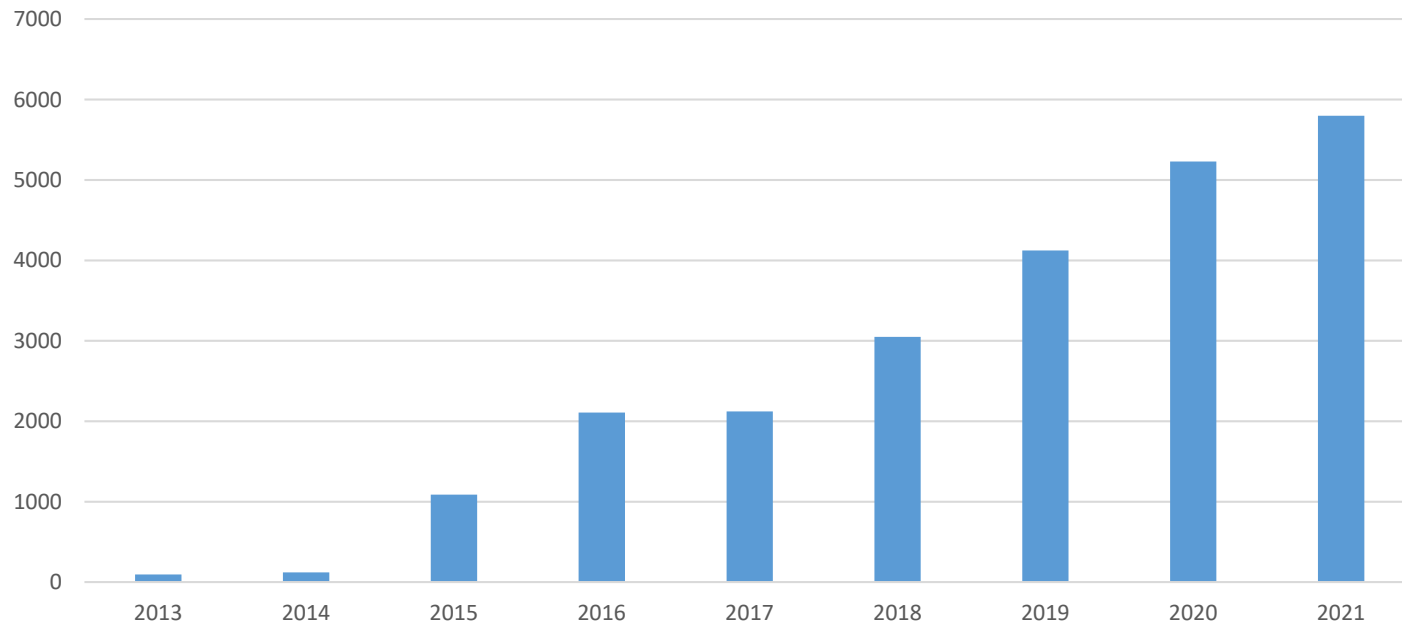
(Based on OA publications produced by A\*STAR, NTU, NUS, SIT, SMU, SUSS, SUTD, Yale-NUS)

Data included herein are derived from Elsevier *Scopus* © Copyright Elsevier 2021, and Clarivate *Web of Science* © Copyright Clarivate 2021. All rights reserved.

# A\*STAR Open Access Repository (A\*OAR)

Downloads (Cumulative, may include bots)	Views (Cumulative)	Searches (Cumulative)
>1,097,344	>970,514	>9,955,933

Cumulative deposits into A\*OAR



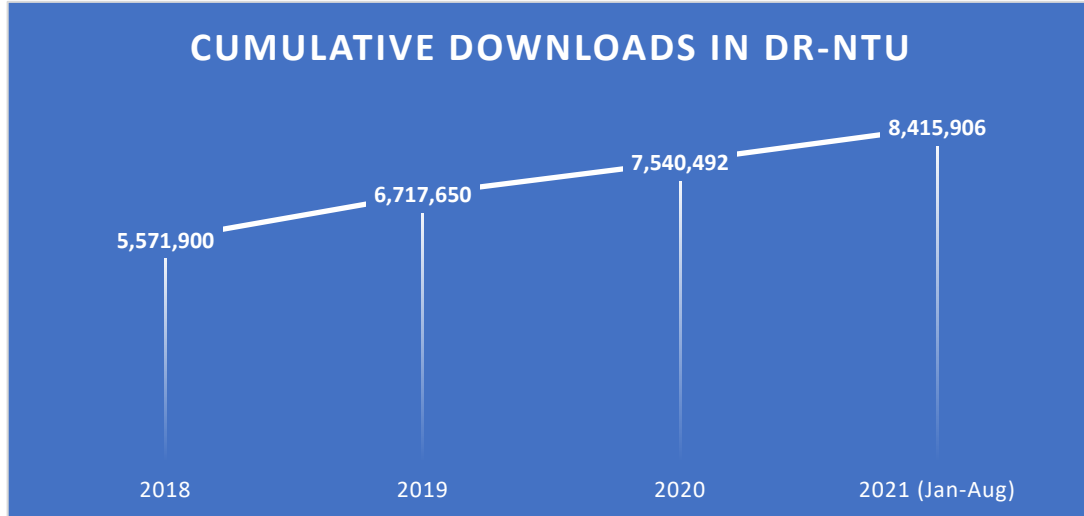
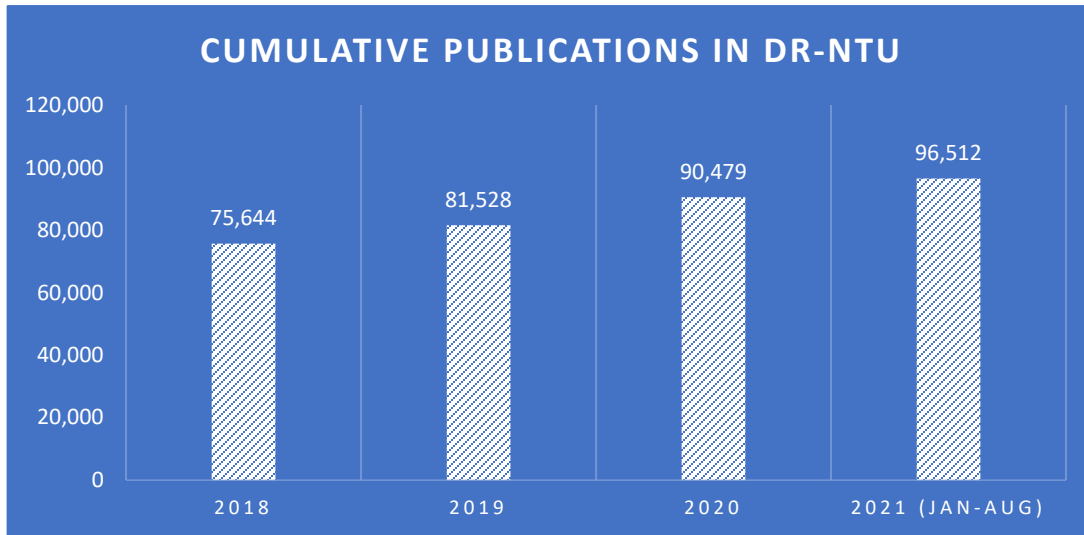
Total Number of Items	Number of Items with Full Text
5,798	4,577

**Set up in 2013**

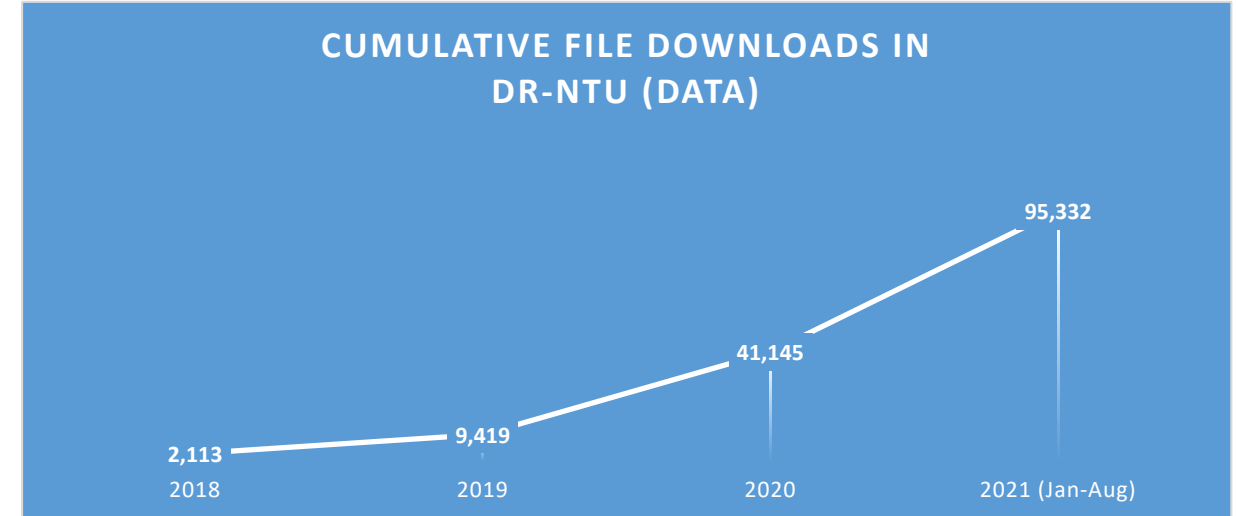
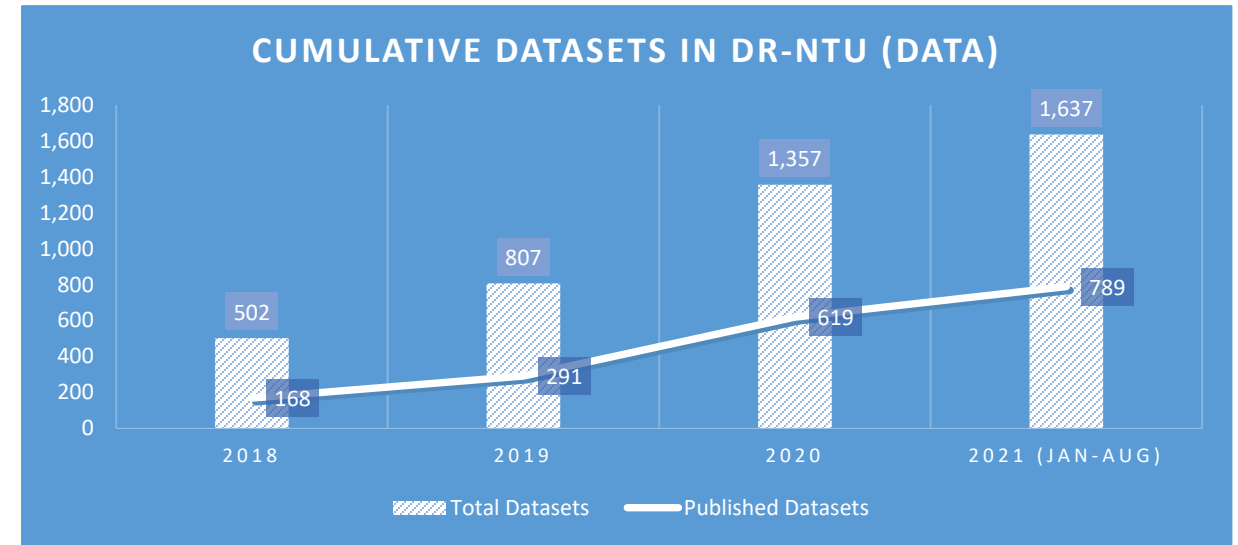
**Over 78% come with full text**

**More than 1m downloads**

# NTU Digital Repository



# NTU Digital Repository (Data)



➤ Built on an open-source application: **DSpace-CRIS**



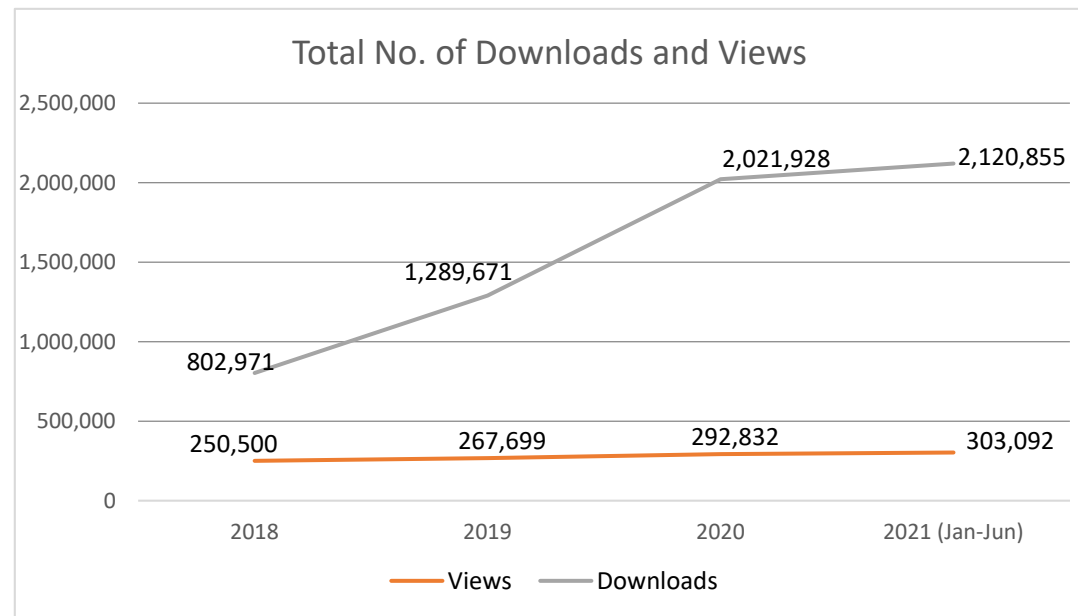
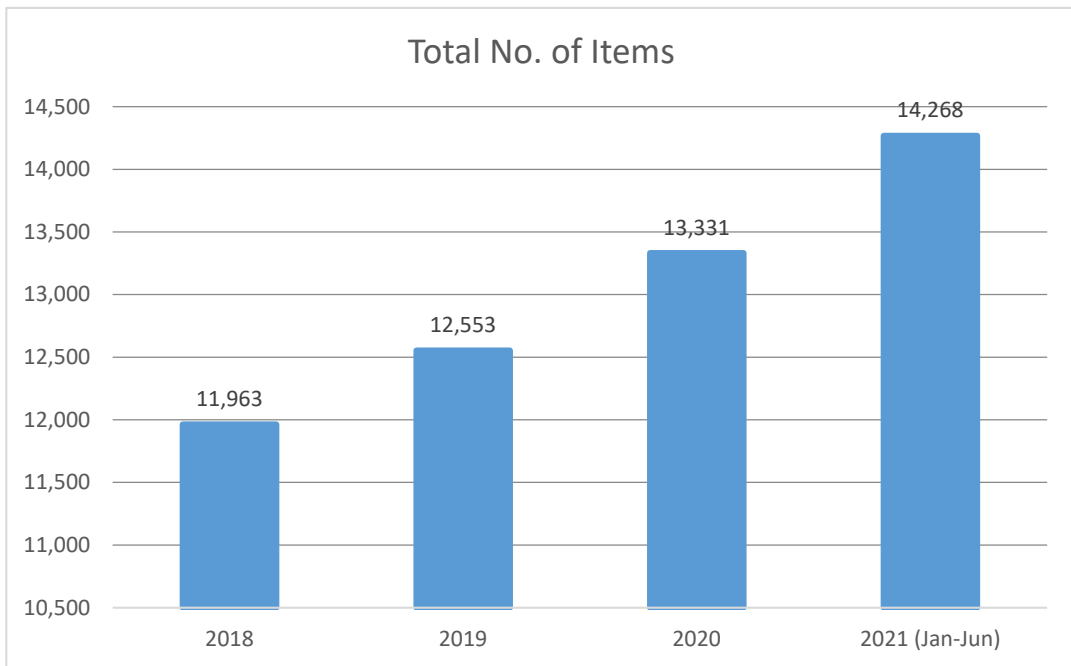
➤ 2021: Activation of **Academic Profile**

➤ Built on an open-source application: **Dataverse**

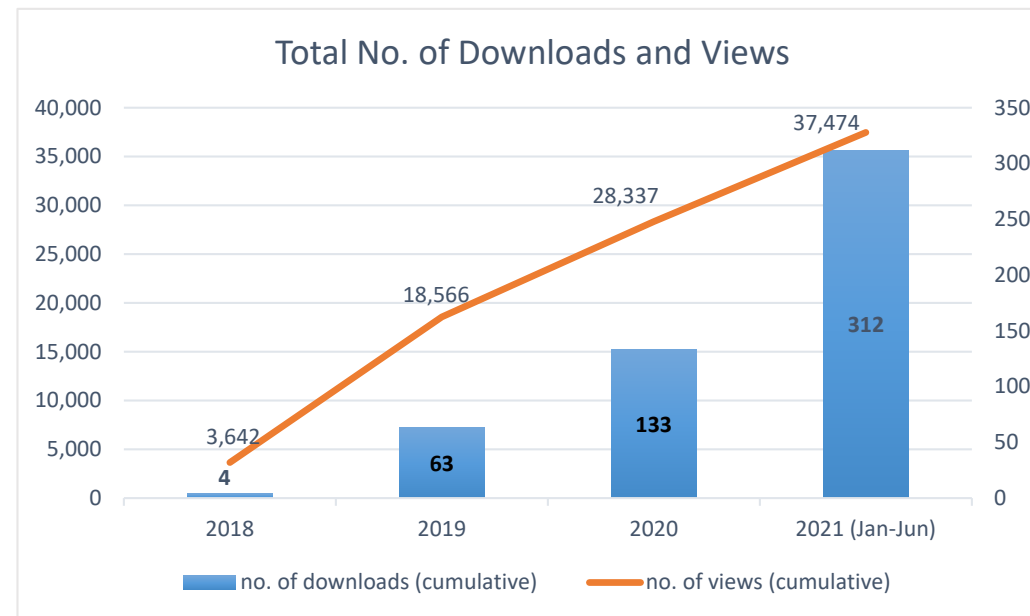
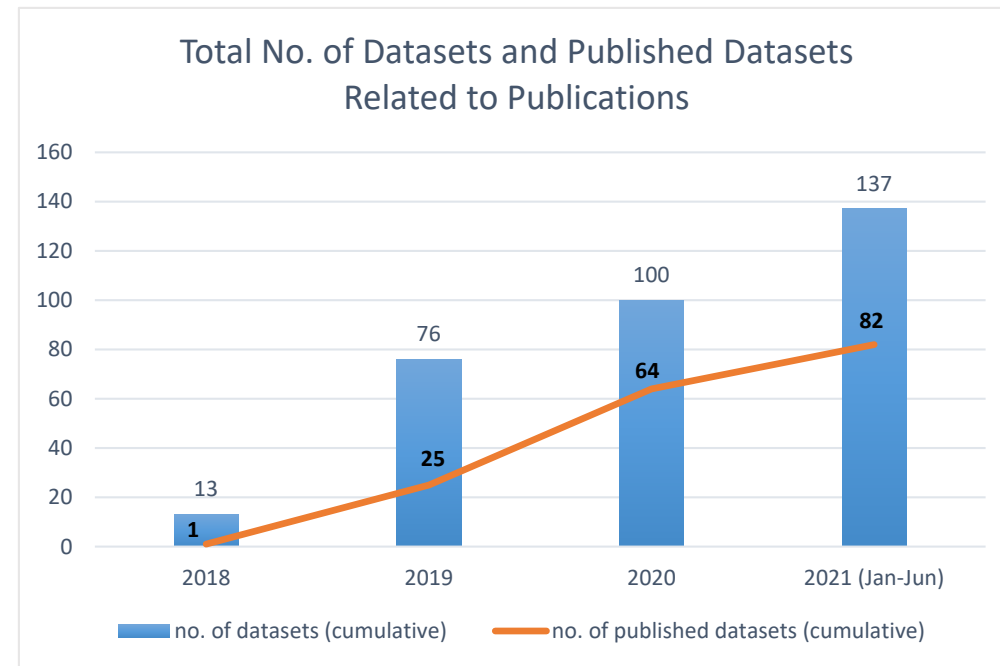


➤ 2021: Development of Research Data Management e-learning

# NIE Digital Repository



# NIE Data Repository



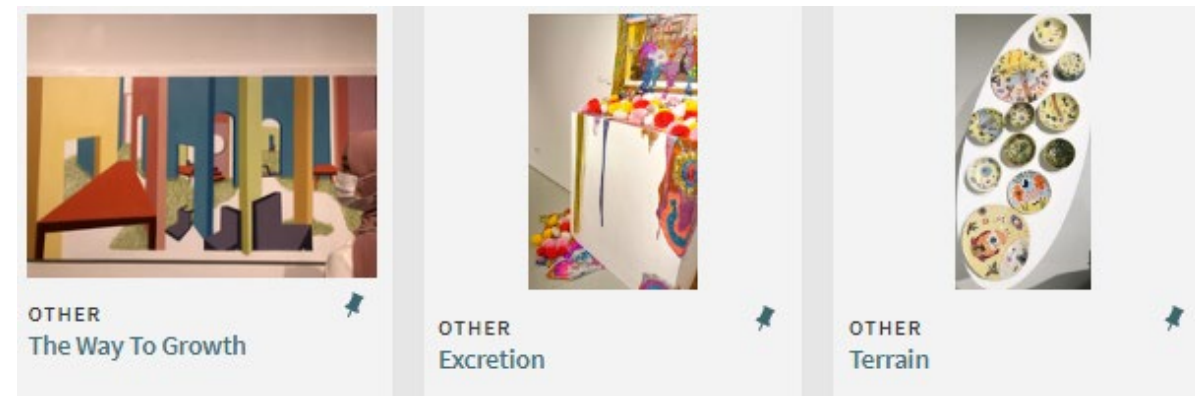
# New Digitised Collections (NIE)

## MAS Manuscripts



- Unpublished manuscripts by the late Dr. Muhammad Ariff Ahmad (MAS), Singapore's "father of Malay language, literature and culture"
- Indexed with **bilingual entries (Malay/English)** for the title and abstract fields

## NIE Art Archive



- Digitised students' art works, with synopsis and creator's profile
- Browsable via Alma Digital, an integral archival platform of the Ex Libris library management system

# Open Access Resources (NTU & NIE)

- [HSSE Online](#) (peer-reviewed)
- [Knowledge Resource Bank](#) (insights/tools derived from research)
- [Learning@NIE](#)
- [Local Evidence Syntheses](#)
- [LIBRES](#) (peer-reviewed)
- [NIE Working Paper Series](#)
- [OER Knowledge Bites](#)
- [SingTeach](#)

# Open Science Initiatives (NTU & NIE)



- Library's role: creating awareness and advocating best practices in areas such as reproducible science, research data management, open data sharing and open scholarship

Season 2: 6-Weekly sessions with researchers discussing open science movement.  
[https://blogs.ntu.edu.sg/ntulibrary/2021/03/26/reproducibilittea\\_season2/](https://blogs.ntu.edu.sg/ntulibrary/2021/03/26/reproducibilittea_season2/)  
 ReproducibiliTea Journal Club (Singapore):  
<https://reproducibilittea.org/journal-clubs/#Singapore>

Building Library Capabilities for Research Data Management

Services and Challenges in Managing the Institutional Research Data Repository

Open Science and Educational Research Data Management

Open Data Sharing

Open Scholarship

**Live Online Information Sharing Session:**  
**Building Library Capabilities for Research Data Management**

With more funders and journal publishers placing greater emphasis on research data, COAR-Asia OA and Research Data Management (RDM) Librarians from the Nanyang Technological University will be facilitating an online Information Sharing Session to discuss the following questions:

- What roles can the academic library play in research data management and sharing?
- What competencies are needed for librarians to develop as they move into their new roles in research data services?
- What would the first steps look like?

**FACILITATORS:**  
 Ms GEM SU NEH, Deputy Director & Lead, RDM Team, NTU Library  
 Ms YUEN WIRAWATI, Assistant Director, RDM Team, NTU Library

**REGISTER AT:**  
<http://bit.ly/sharingDec2020>  
 The Zoom link will be emailed to registered participants.

Organised by: **NTU Library**  
 Office of Information, Knowledge and Library Services  
[www.ntu.edu.sg/library](http://www.ntu.edu.sg/library) #NTUsgLibrary

**Live Online Information Sharing Session:**  
**Services and Challenges in Managing the Institutional Research Data Repository**

An increasing number of institutions are setting up research data repositories to help their researchers meet research data availability requirements from journal publishers and funders. COAR-Asia OA and Research Data Management (RDM) Librarians from the Nanyang Technological University will be facilitating an online Information Sharing Session to discuss the following questions:

- What value-added services can repository managers provide to help ensure that research data are FAIR (Findable, Accessible, Interoperable and Reusable)?
- What are some of the common challenges faced by data repository managers?

**FACILITATORS:**  
 Dr Amy CHIU, Manager, RDM Team, NTU Library  
 Ms YUEN WIRAWATI, Assistant Director, RDM Team, NTU Library

**REGISTER AT:**  
<http://bit.ly/sharing-Jun2021>  
 OR  
<http://bit.ly/sharing-Jun2021>  
 Zoom link will be emailed upon registration.

Organised by: **NTU Library**  
 Office of Information, Knowledge and Library Services  
[www.ntu.edu.sg/library](http://www.ntu.edu.sg/library) #NTUsgLibrary

**OER Professional Development Webinar Series**  
**Open Science and Educational Research Data Management**  
 23 July 2021 (Fri), 2:00 – 3:30 pm, SGT | Webinar via Zoom

**Abstract**  
 Open science (OS) aims to make research outputs available to any members of an inquiring society, from professionals to lay persons. It is the umbrella term for several concepts including open access, open data and open research. Open data, broadly defined as the process of making data publicly available and accessible, is a key component of OS. Enable support for OS practices from funders and publishers, and the potential to generate new research insights, datasets and research results. Research data is often not properly managed across research institutions.

**About the Presenter**  
 Dr Sun Guangyuan is a Research Fellow at OER, NIE, with a PhD in Library and Information Science from Nanyang Technological University, Singapore. Her focal scholarly interest is in using knowledge organization and representation techniques to support research data discovery and reuse from novel perspectives. Prior to joining NIE, she was a Research Data Librarian at NTU Library, where she worked on data repository related matters to develop knowledge and expertise across diverse disciplines. She is hoping to apply her expertise to the management of educational research data at NIE.

**Registration by: 16 July 2021**  
 Please direct queries to [proddev@comms.nie.edu.sg](mailto:proddev@comms.nie.edu.sg)

OFFICE OF EDUCATION RESEARCH

**OPEN DATA SHARING**  
 Tuesday, 20 October 2020  
 2:00 pm – 3:00 pm  
 Zoom Webinar

**PROGRAMME**

- 2:00 pm **Opening Remarks**  
Prof. Tan Jui Kiang, Deputy Provost (Education), NTU
- 2:05 pm **COVID-19 Statistics in China**  
Assoc. Prof. Cheong Siew Ann & Assistant Chair (Academic), SPMS, NTU
- 2:30 pm **Data Sharing in Psychology**  
Dr. Liu Wanyuan, Research Fellow, SPMS, NTU
- 2:35 pm **Q&A**
- 2:45 pm **Introducing OR-NTU (Data) and NIE Data Repository**  
Dr. Sun Guangyuan, NTU Library  
Mr. Wang Yong Yuen, NIE Library
- 3:00 pm **Closing and Feedback**

**Register at:**  
[bit.ly/NTUOA2020-Day1](http://bit.ly/NTUOA2020-Day1)  
 The Zoom link will be emailed upon registration.

Organised by: **NTU Library**  
 Office of Information, Knowledge and Library Services  
[www.ntu.edu.sg/library](http://www.ntu.edu.sg/library) #NTUsgLibrary

**OPEN SCHOLARSHIP**  
 Thursday, 22 October 2020  
 9:00 am – 10:30 am  
 Zoom Webinar

**PROGRAMME**

- 9:00 am **Opening Remarks**  
Ms. Goh Su Hwee, Deputy Director, NTU Library
- 9:05 am **The Future of Open Research: Policies, Platforms, and Priorities**  
Mr. Nicholas Phang, Director of Programmes & Engagement, SPAC
- 9:45 am **Building Open Scholarship in Developing Research Cultures**  
Dr. Sze Sherng On, Postdoctoral Fellow, IANM, Sydney
- 10:15 am **Introducing OR-NTU and NIE Digital Repository**  
Ms. Sun Guangyuan, NTU Library  
Ms. Wang Siew Min, NIE Library
- 10:25 am **Closing and Feedback**

**Register at:**  
[bit.ly/NTUOA2020-Day2](http://bit.ly/NTUOA2020-Day2)  
 The Zoom link will be emailed upon registration.

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 Office of Information, Knowledge and Library Services  
[www.ntu.edu.sg/library](http://www.ntu.edu.sg/library) #NTUsgLibrary

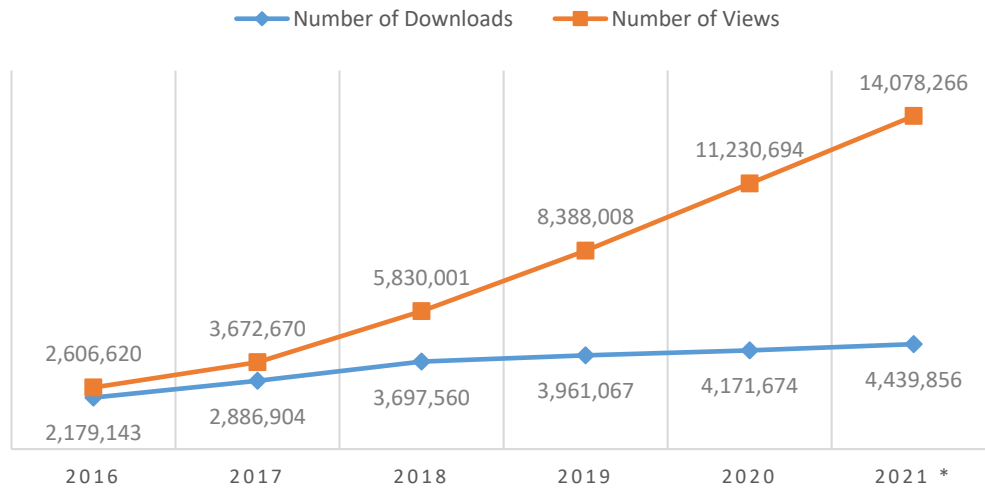
[https://blogs.ntu.edu.sg/ntulibrary/2020/11/20/coar\\_asiaoa\\_sharing\\_rdm\\_services/](https://blogs.ntu.edu.sg/ntulibrary/2020/11/20/coar_asiaoa_sharing_rdm_services/)  
<https://blogs.ntu.edu.sg/ntulibrary/2020/12/18/coarrepositary/>

[https://blogs.ntu.edu.sg/ntulibrary/2020/11/06/open-access-week-2020-day2\\_recap/](https://blogs.ntu.edu.sg/ntulibrary/2020/11/06/open-access-week-2020-day2_recap/)  
<https://blogs.ntu.edu.sg/ntulibrary/2020/11/13/open-scholarship-webinar-a-recap/>

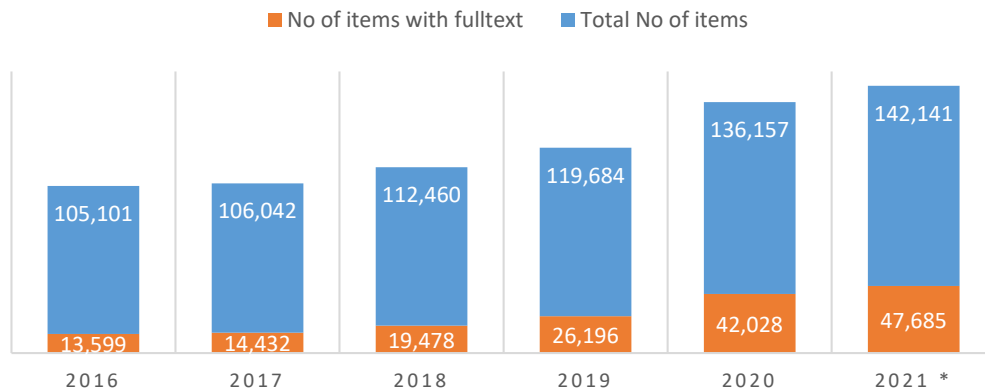
# NUS Repositories

## ScholarBank@NUS (Research outputs)

### VIEWS AND DOWNLOADS



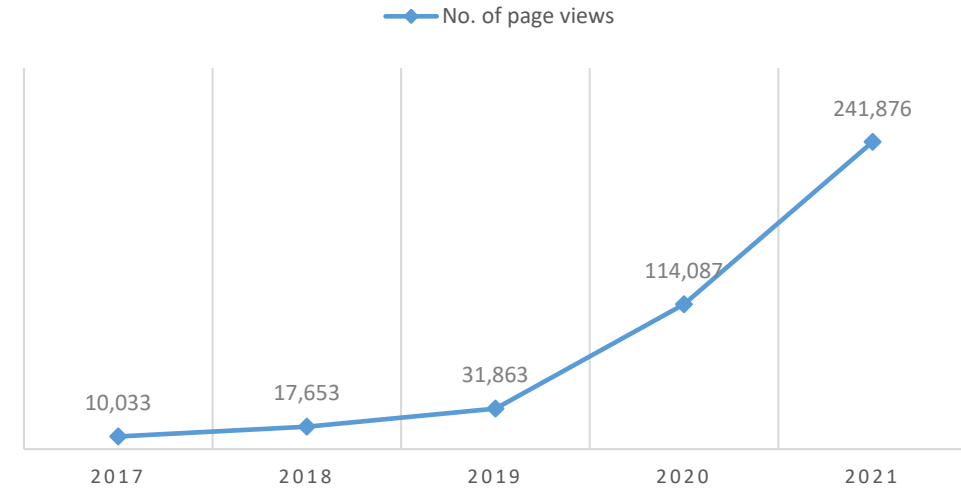
### NO. OF ITEMS AND FULLTEXT



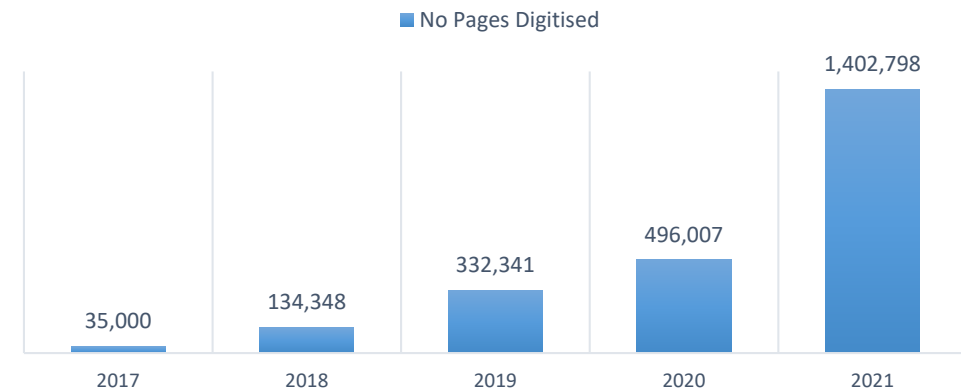
## Digital Gems

(Rare, historical & primary source materials)

### PAGE VIEWS



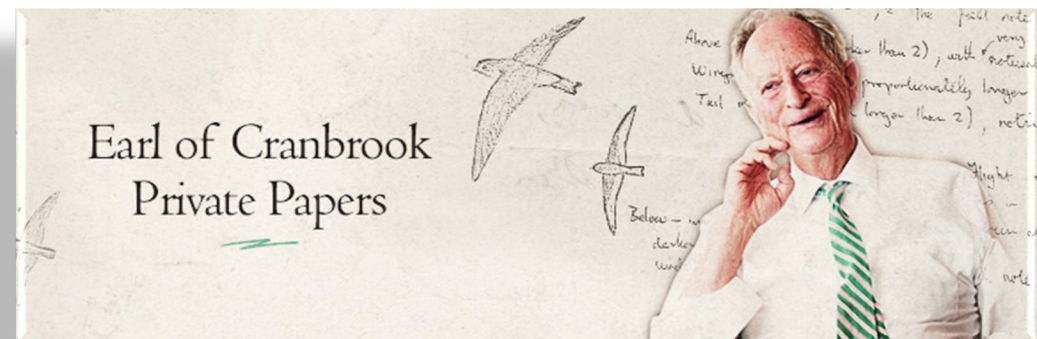
### NO OF PAGES DIGITISED



\* 2021 figures till August

# NUS Digitised Collections

- Outsourced digitisation to facilitate access to rare materials on SE Asia during the Covid-19 outbreak
  - Added over 900K digitised pages from 105 historical Southeast Asian newspaper titles published in English, Jawi and Chinese language
- 5 new collections were added to Digital GEMS
  - Koh Kim Yam Private Papers, Earl of Cranbrook Private Papers, Law and Malay and English newspapers





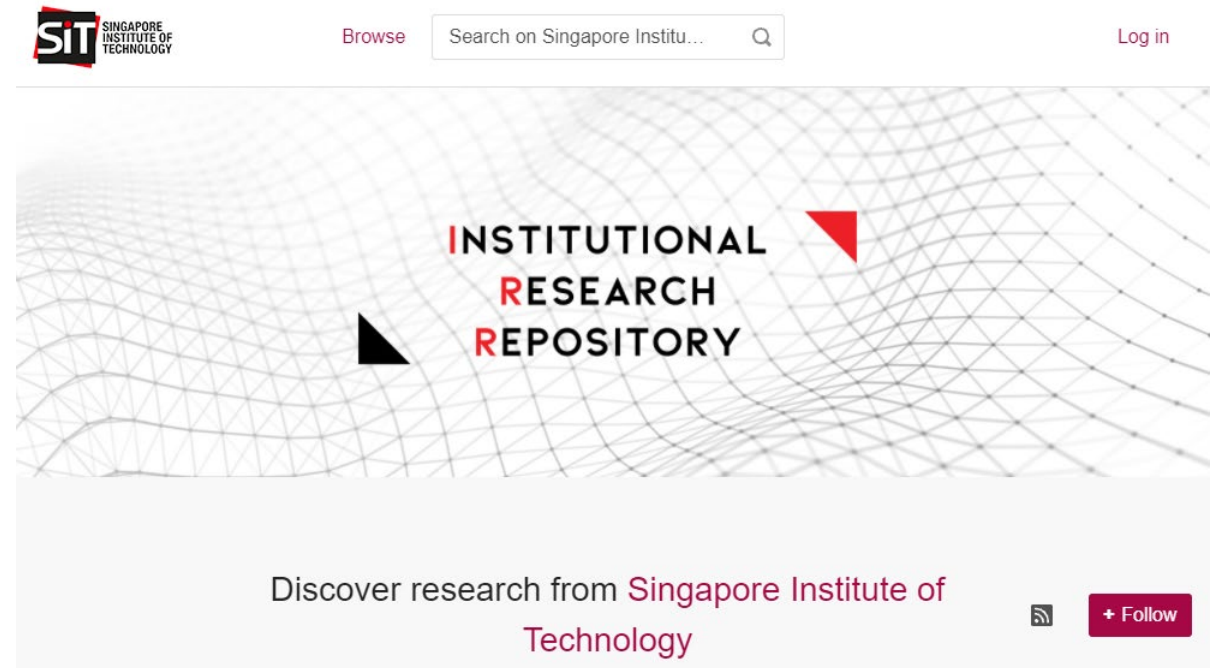
# NUS Open Access Initiatives

- NUS Libraries has negotiated several deals with publishers/societies to offer a discount to NUS authors who are paying Article Processing Charges (APC) to make their articles openly available.
- Some offer a discount off the APC and others offer a limited number of tokens to offset either the full or partial cost of APC.



# SIT Institutional Research Repository (IRR)

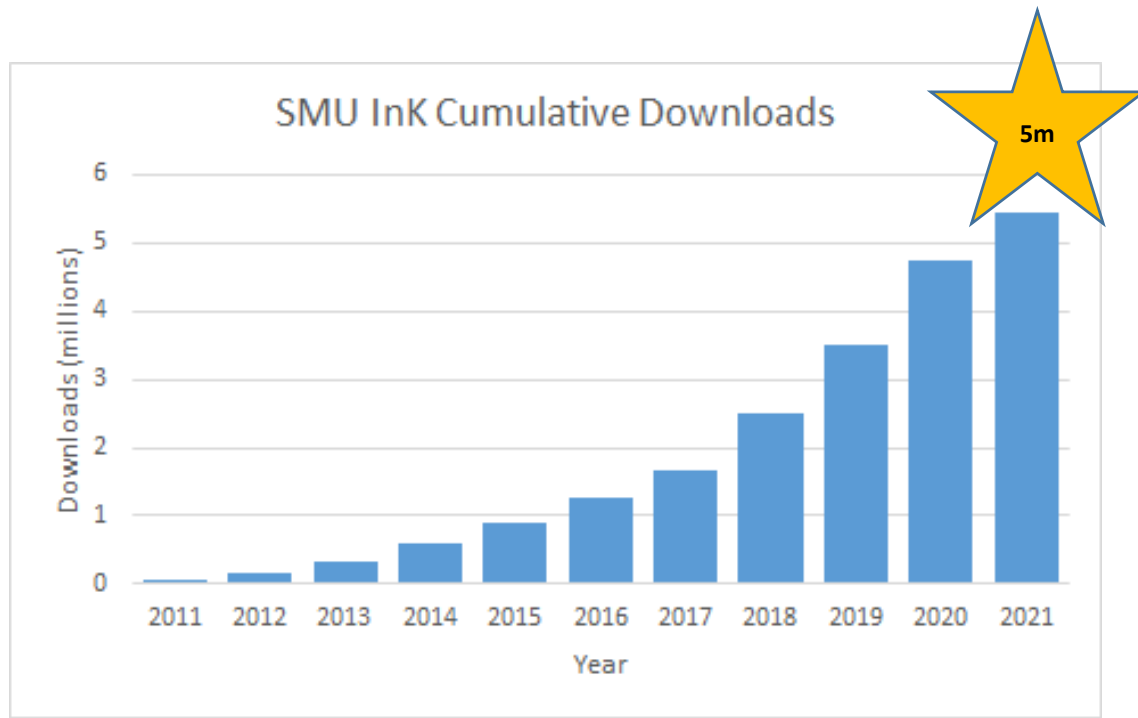
- Launched in October 2021
- Uses Figshare for Institutions as an all-in-one repository for different formats of research outputs
- Partnered with vendor to enhance the platform with Sherpa-Romeo and ORCID integration



<https://irr.singaporetech.edu.sg/>

# SMU Repositories

- Strong growth in downloads and usage of InK, SMU paper repository, and SMU Research Data Repository (RDR)



SMU RDR by type	Cumulative Downloads
Dataset	7,443
Software	1,289
Total	8,732

Launched in Apr 2020

Citations to dataset in RDR = 2

Plan engagement with faculty to encourage deposit of datasets

# Workshops & Open Access Serial Publications

- One-hour bite-sized workshops
  - Research Data Management, Cleaning Data with OpenRefine, Making Your Research Reproducible, Doing Data Science with R



- Open access serials publications available in InK
  - [Asian Management Insights](#)
  - [Perspectives@SMU](#)

# Collaboration: Singapore Alliance of University Libraries - Research Support Task Force (SAUL-RSTF)

- Members: University Libraries in Singapore
- Collaborate to enhance research support in parent institutions and facilitate research productivity of researchers in Singapore
- Quarterly meeting cum sharing session (since Dec 2019):
  - open science/open scholarship
  - scholarly publishing
  - research data management
  - research metrics/impact, etc.

<https://library.smu.edu.sg/asiaoa2021/>

<https://blogs.ntu.edu.sg/ntulibrary/2020/10/29/rstf2020-webinar-a-recap/>