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Open access and open science in Singapore

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National Institute of Education, Singapore

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Community Update

Open Access and Open Science in Singapore

Ooi Lian Ping

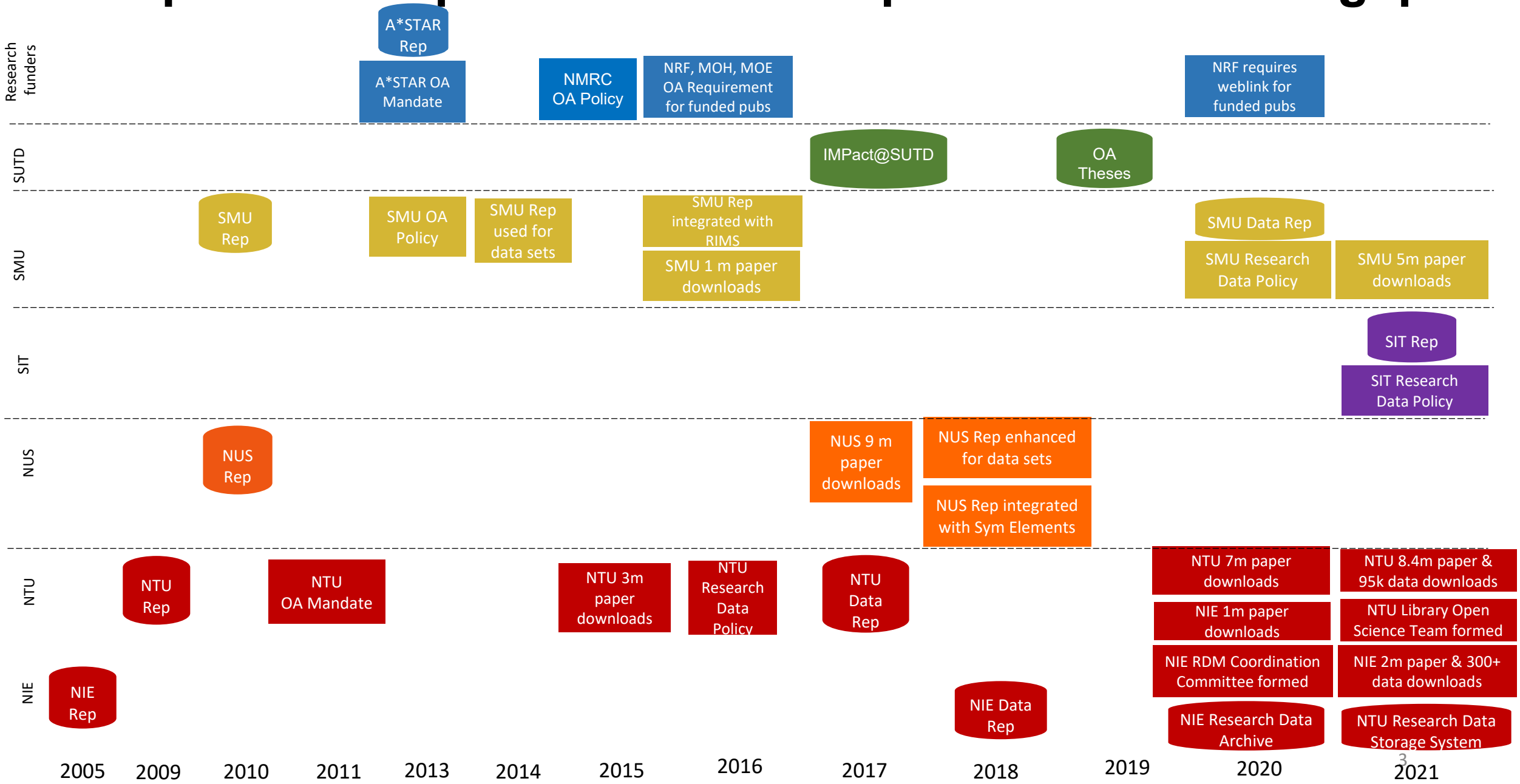
National Institute of Education, Nanyang Technological University (NIE NTU), Singapore

(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
• National Research Foundation (NRF) • Agency for Science, Technology and Research (A*STAR) • National Medical Research Council (NMRC) • Ministry of Education (MOE)	• Nanyang Technological University (NTU) • National Institute of Education (NIE NTU) • National University of Singapore (NUS) • Singapore Institute of Technology (SIT) • Singapore Management University (SMU) • Singapore University of Social Sciences (SUSS) • Singapore University of Technology and Design (SUTD) • Yale-NUS College

Mandates & Policies (1)

Funding Bodies	Mandates / Policies
National Research Foundation (NRF)	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. Allows the use of research grants for Article Processing Charges (APC)
Agency for Science, Technology & Research (A*STAR)	Open Access Mandate (Aug 2013) • Peer-reviewed articles/conference proceedings made publicly available no later than 12 months after publication Data Management Plan Pilot (in progress) Research Data Policy (in progress) Allows the use of research grants for Article Processing Charges (APC)* *Refer to T&C of specific funding
National Medical Research Council (NMRC)	Open Access of Publications (May 2015) • Open access of peer-reviewed publications regardless of the funding quantum Sharing of research data (Nov 2015) • Mandatory for projects with **at least S$250,000** of direct research cost Allows the use of research grants for Article Processing Charges (APC)

new

Mandates & Policies (2)

Institutions	Mandates / Policies
Nanyang Technological University (NTU)	Open Access Policy (Aug 2011, revised in 2021) Data Management Plan (Apr 2016, revised in 2020) Research Data Policy (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)	Research Data Management Policy (Dec 2020) Open Access Policy (in progress)
Singapore Management University (SMU)	Open Access Policy (Oct 2013) Research Data Policy (Jan 2020)
Singapore University of Design and Technology (SUTD)	Research Policy and Guidelines (2016) Data Treatment Policy (2017) Research Data Policy (in progress)

new

Repositories

Institution	Repositories	URL	Year launched
A*STAR	A*OAR	http://oar.a-star.edu.sg	2013
NTU	DR-NTU (Publications) [DSpace-CRIS] DR-NTU (Data) [Dataverse] Research Data Storage System • In-progress data, and finalised but sensitive data	https://dr.ntu.edu.sg https://researchdata.ntu.edu.sg Intranet access	2009 2017 2021
NIE NTU	NIE Digital Repository [DSpace-CRIS] NIE Data Repository [Dataverse] NIE Research Data Archive (Restricted) • Data of completed projects and sensitive data	https://repository.nie.edu.sg https://researchdata.nie.edu.sg Intranet access	2005 2018 2020
NUS	Scholarbank [DSpace-CRIS] • Publications and Data repository Digital GEMS • Digitised materials collection	https://scholarbank.nus.edu.sg https://digitalgems.nus.edu.sg	2010 2018
SIT	Institutional Research Repository (IRR) [Figshare] • Publications and data repository	https://irr.singaporetech.edu.sg	2021
SMU	InK [Digital Commons] Research Data Repository RDR [Figshare]	https://ink.library.smu.edu.sg https://researchdata.smu.edu.sg	2010 2020
SUTD	Institutional Repository (in process)	-	

new

Open Access Publishing in Singapore

Increase in open access publications produced by research institutions.

Publication Years Till	% of OA Publications in *Scopus*	% of OA Publications in *Web of Science*
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)

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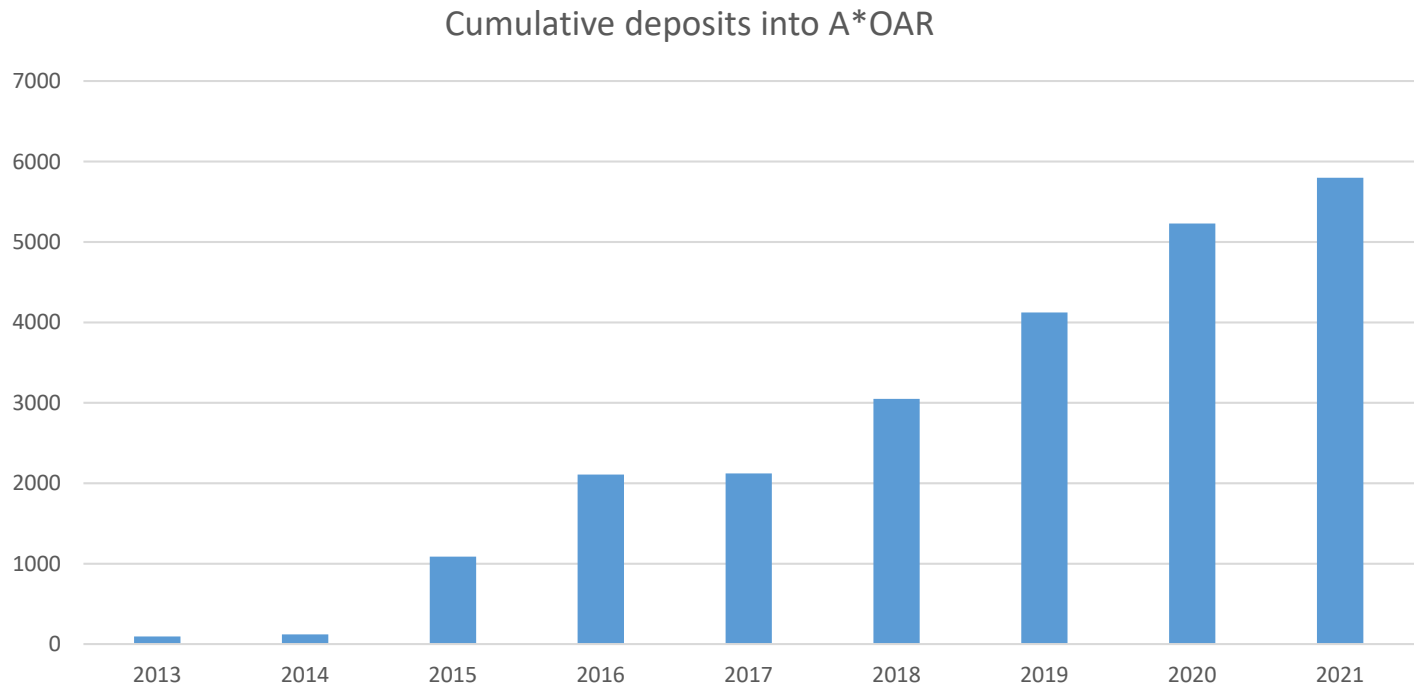
A*STAR Open Access Repository (A*OAR)

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



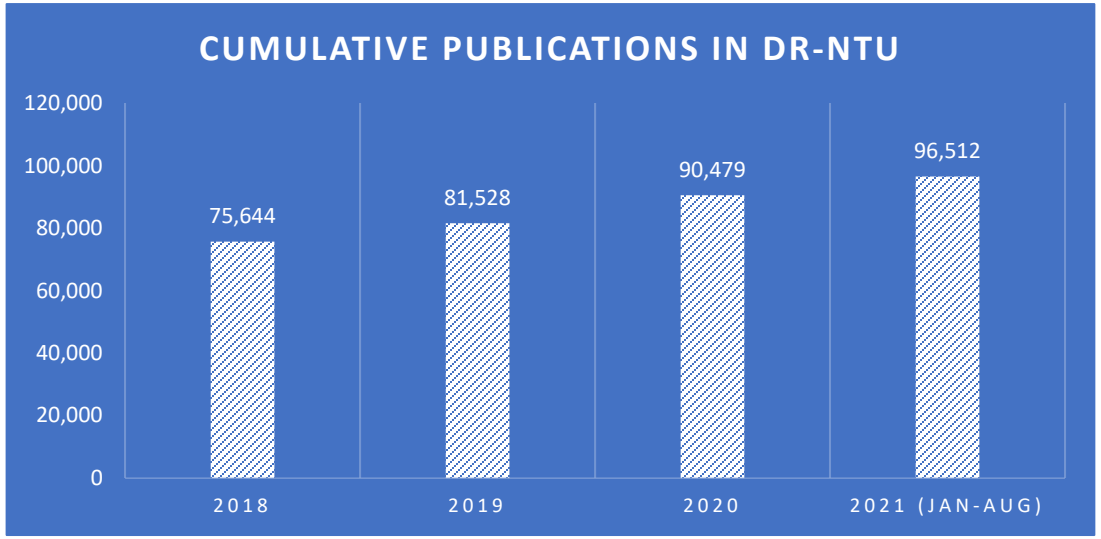
Total Number of Items	Number of Items with Full Text
5,798	4,577

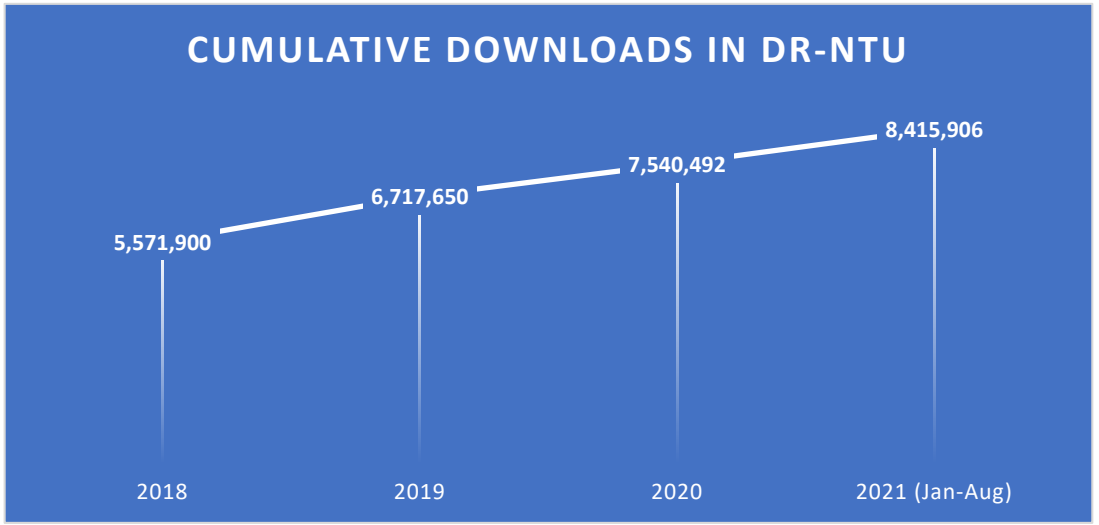
Set up in 2013

Over 78% come with full text

More than 1m downloads

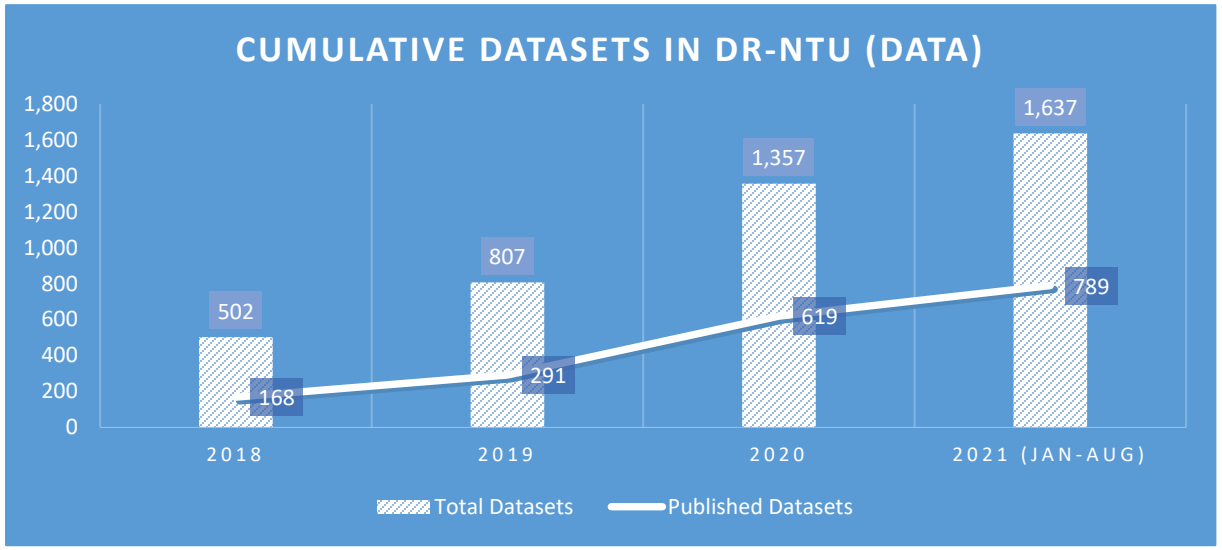
NTU Digital Repository

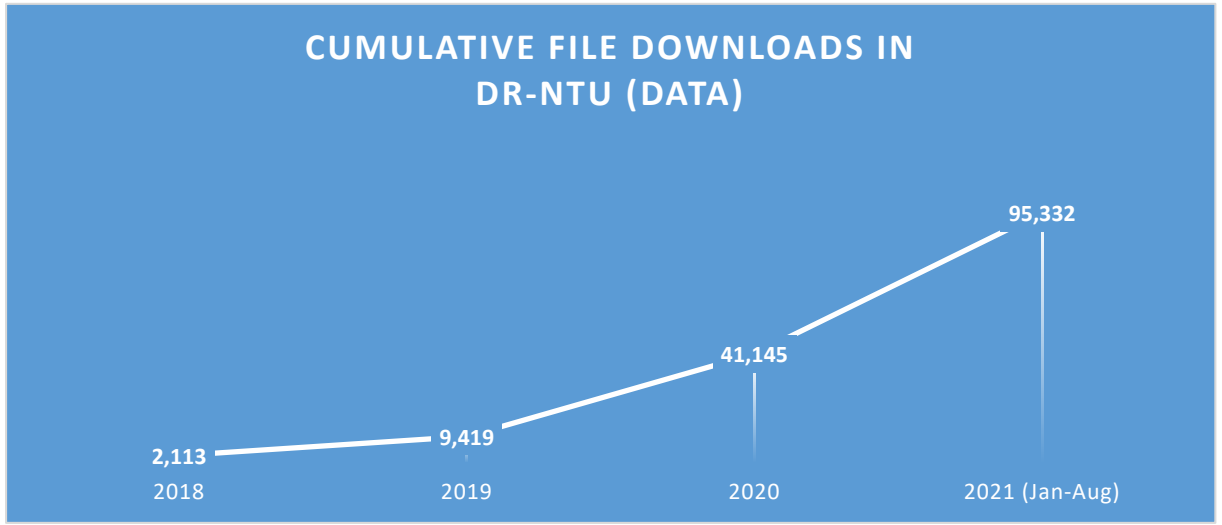




- Built on an open-source application: DSpace-CRIS
- NEW 2021: Activation of Academic Profile

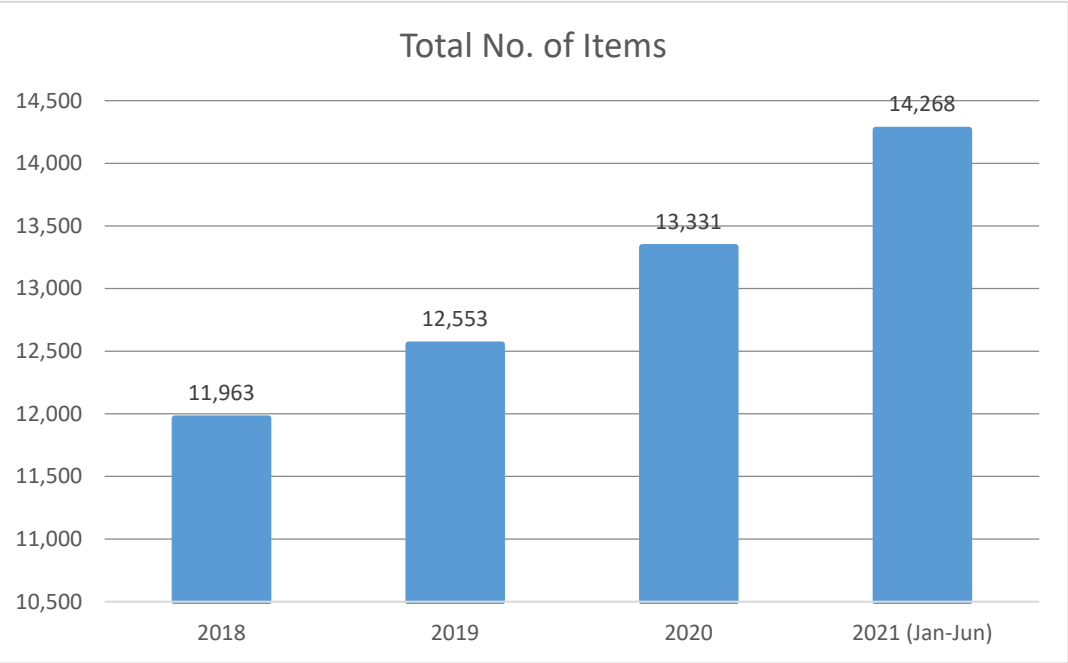
NTU Digital Repository (Data)

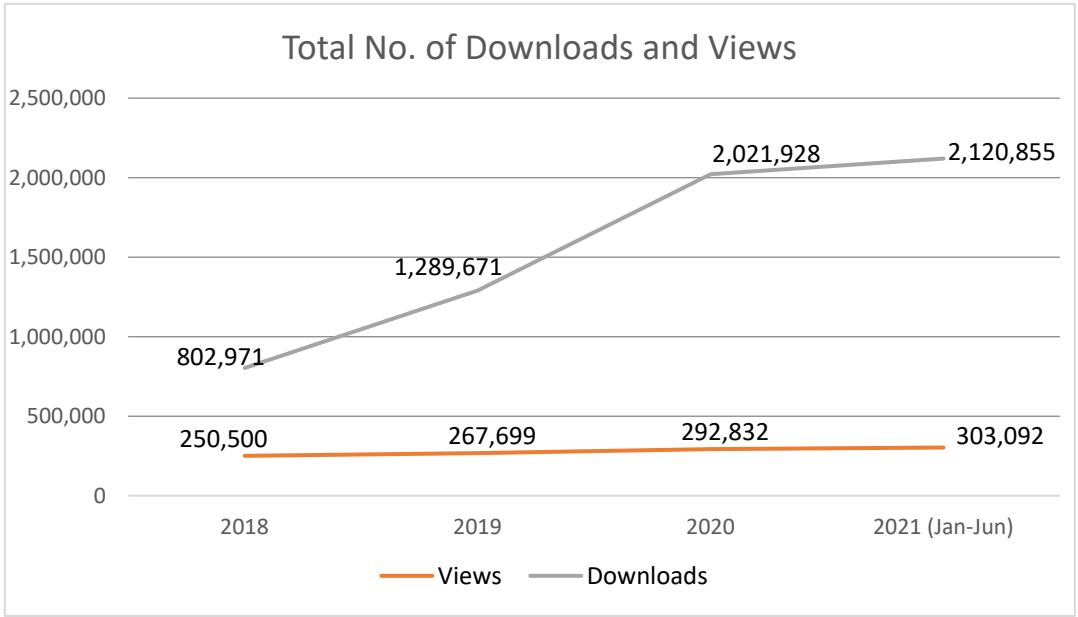




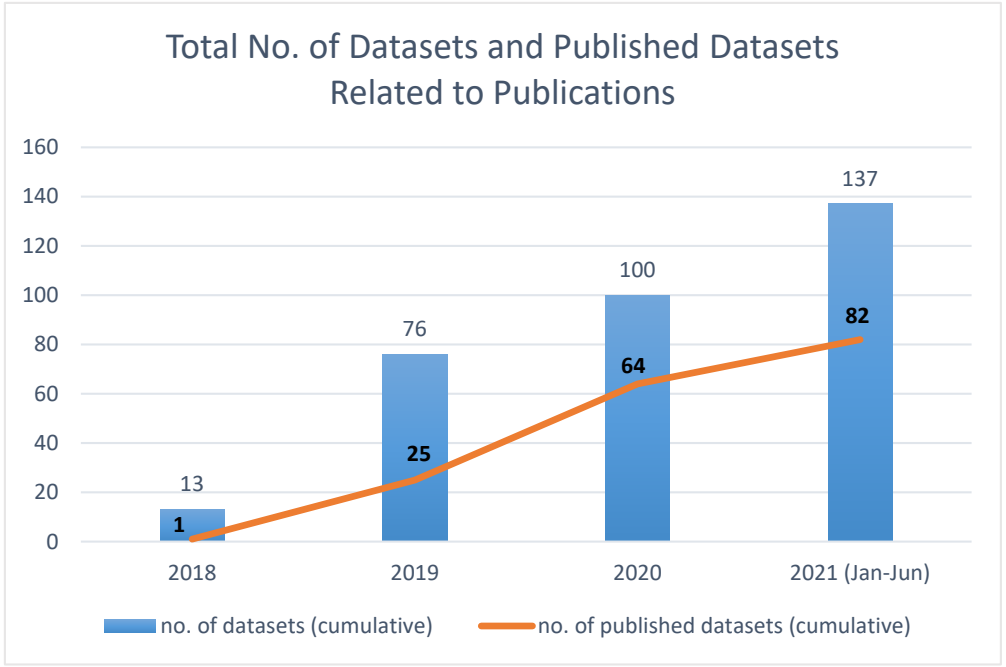
- Built on an open-source application: Dataverse
- NEW 2021: Development of Research Data Management e-learning

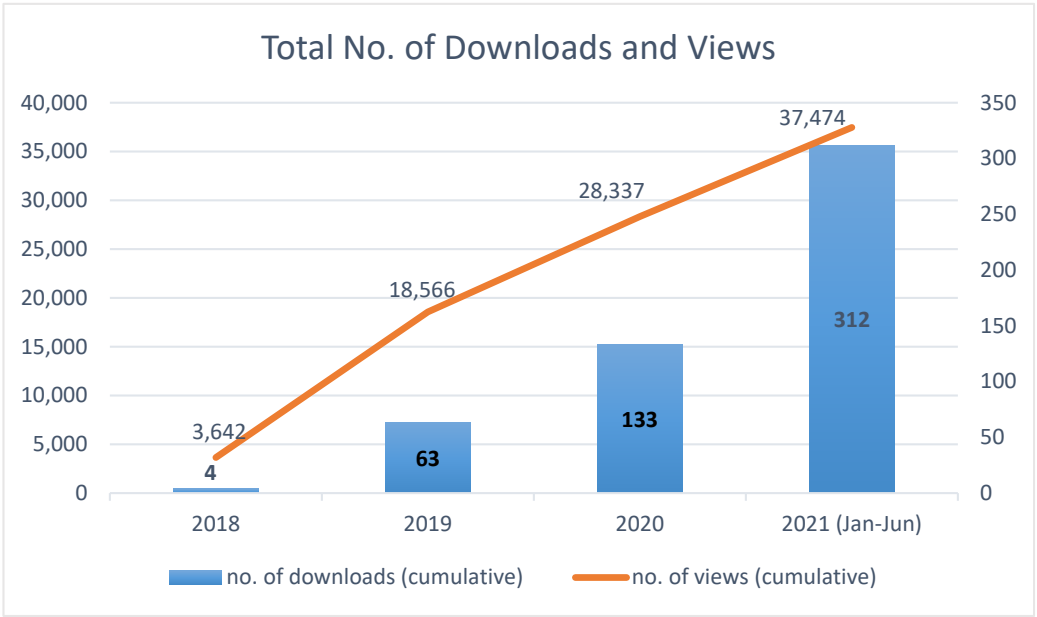
NIE Digital Repository





NIE Data Repository



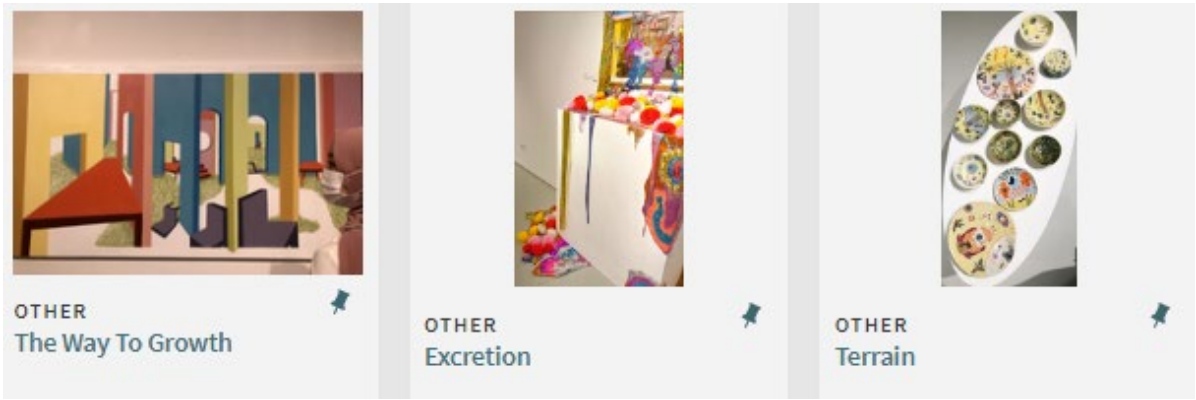


New Digitised Collections (NIE)

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

ReproducibiliTea

Season 2: 6-Weekly sessions with researchers discussing open science movement.
https://blogs.ntu.edu.sg/ntulibrary/2021/03/26/reproducibilitea_season2/
ReproducibiliTea Journal Club (Singapore):
https://reproducibilitea.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

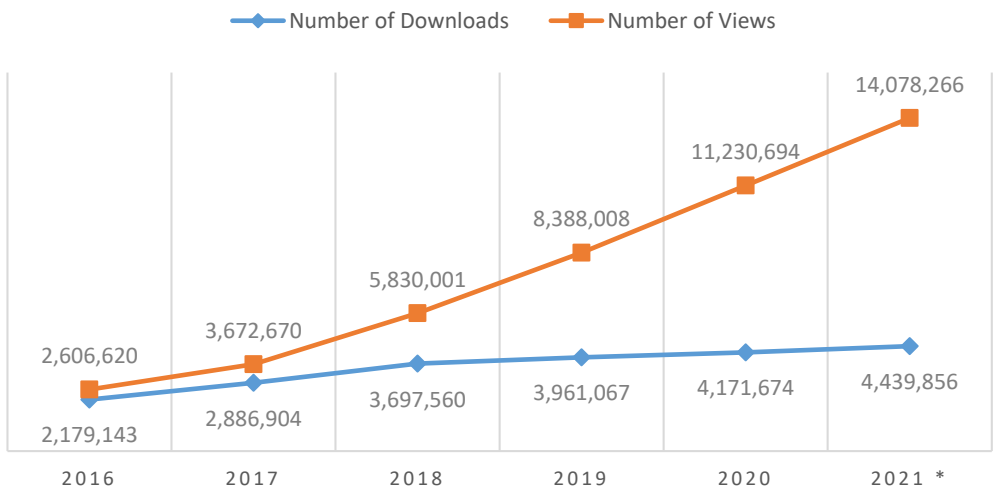
https://blogs.ntu.edu.sg/ntulibrary/2020/11/20/coar_asiaoa_sharing_rdm_services/
https://blogs.ntu.edu.sg/ntulibrary/2020/12/18/coarrepository/

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/

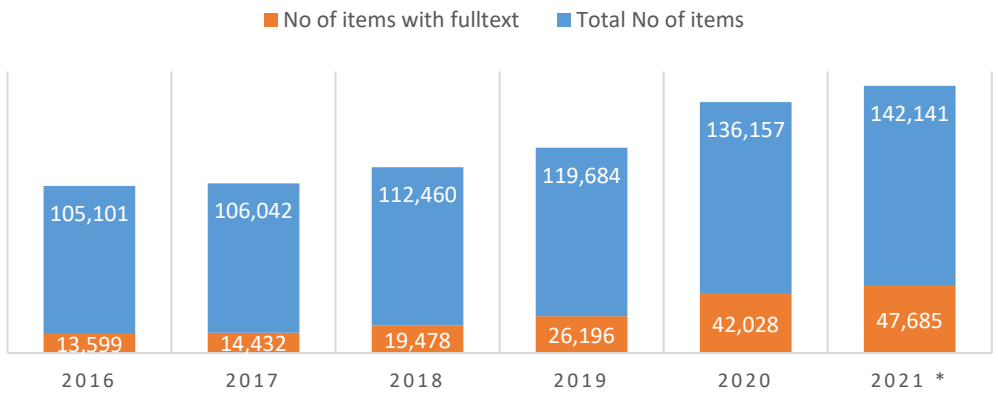
NUS Repositories

ScholarBank@NUS
(Research outputs)

VIEWS AND DOWNLOADS

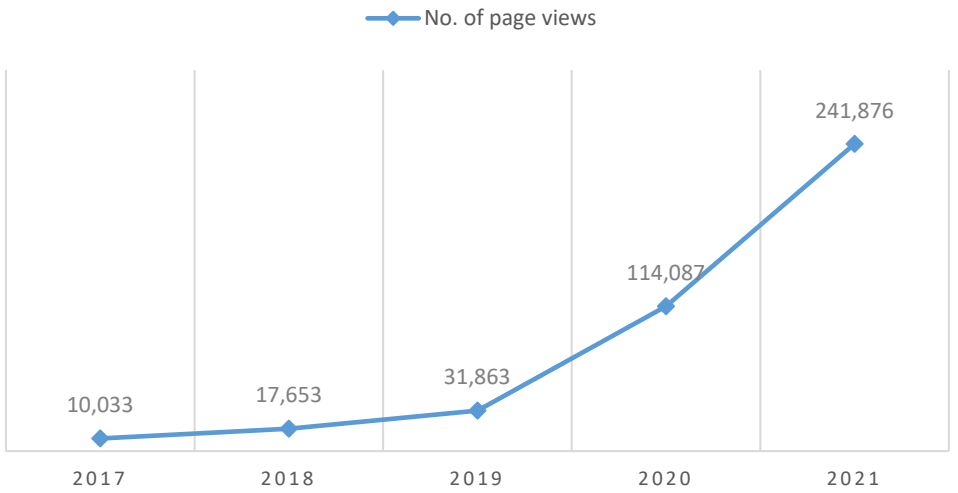


NO. OF ITEMS AND FULLTEXT

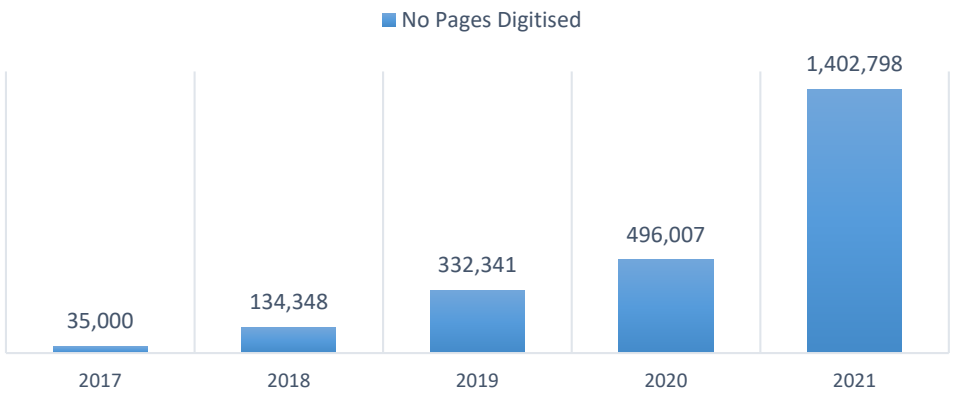


Digital Gems
(Rare, historical & primary source materials)

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

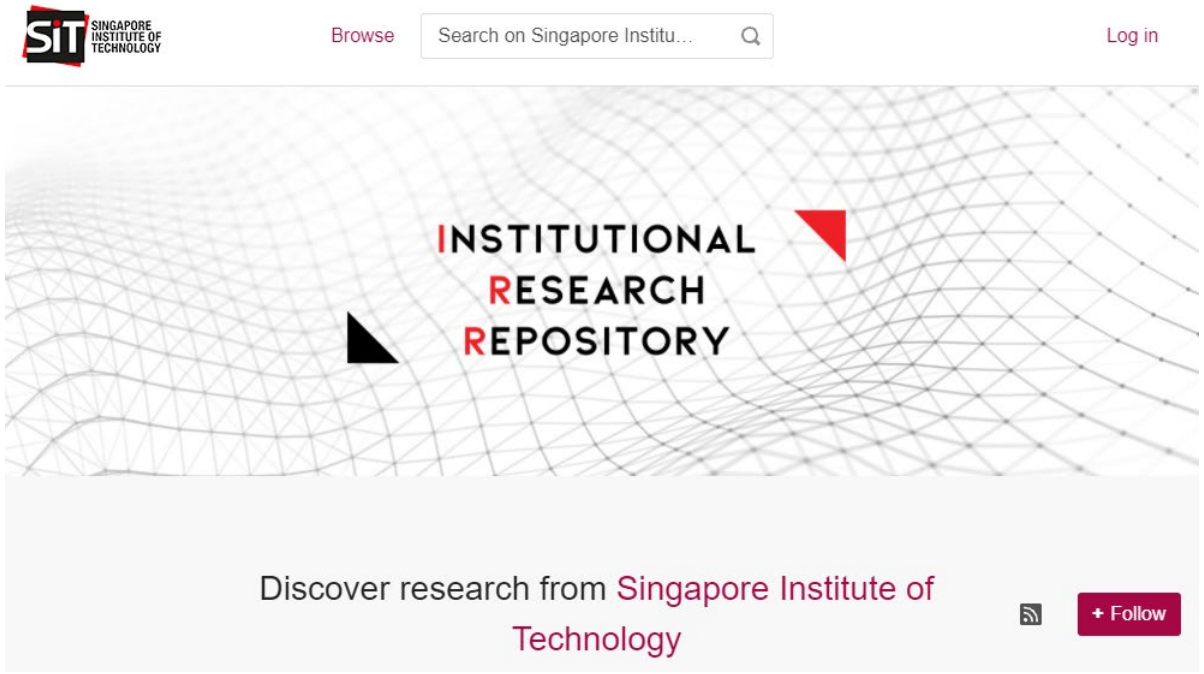
NUS Open Access Initiatives

- 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)

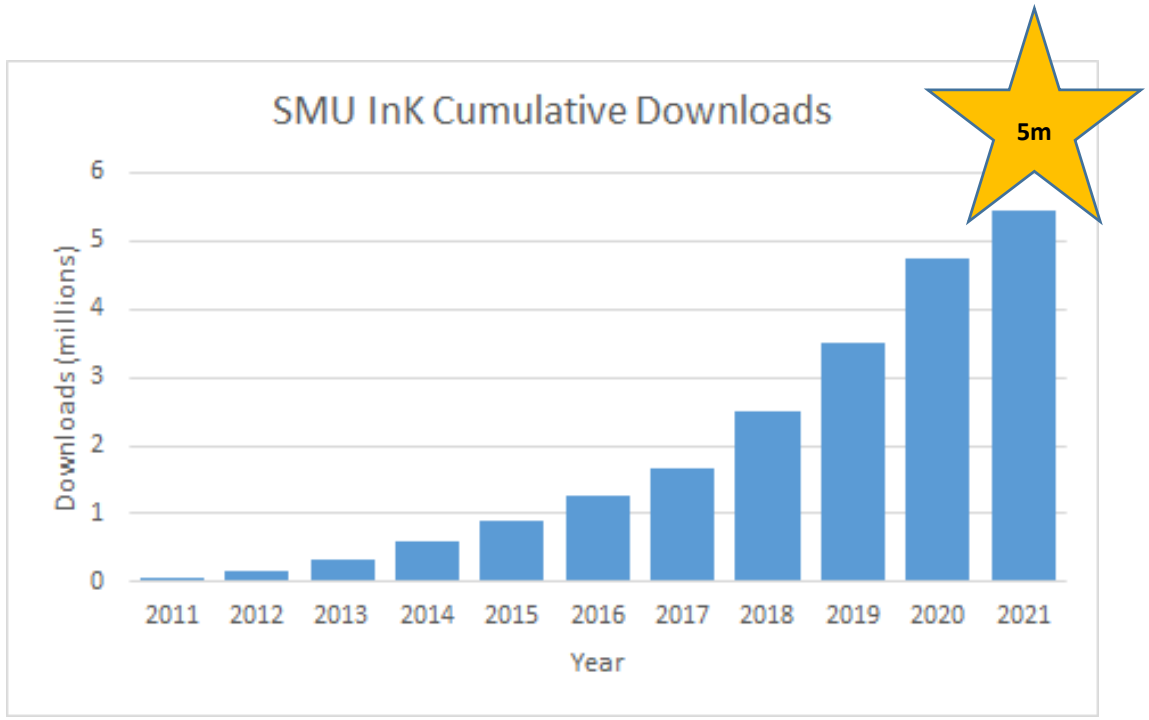
- Launched in October 2021
- Uses Figshare for Institutions as an all-in-one repository for different formats of research outputs
- Partnered with vendor to enhance the platform with Sherpa-Romeo and ORCID integration



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

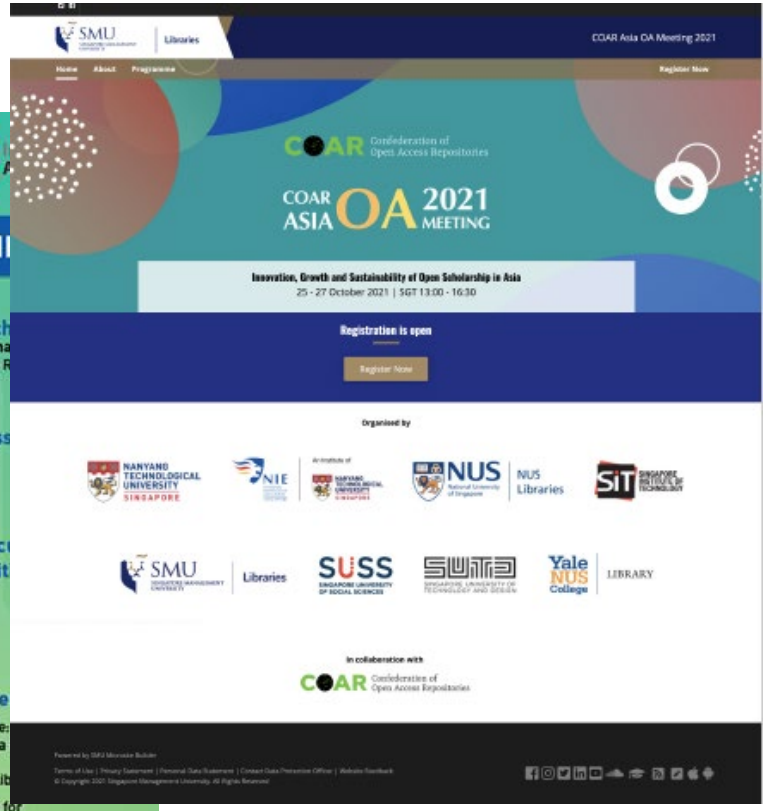
Workshops & Open Access Serial Publications

- 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/