9-2022

Development of Institutional Repositories in Singapore

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SINGAPORE

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Keynote presented at the Forum of Higher Education Librarians in Banten Province FPPTI Banten, 6 September 2022

With summaries/translation by Maria Lamury

Agenda

01 Overview Singapore Universities

- 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)

By the numbers

	NUS	NTU	SMU	SUTD	SUSS	SIT
Year founded	1905	1991	2000	2009	2005	2009
No. of libraries	8	7	2	1	1	1
Publications (2012-2021)*	100,493	76,924	5,342	6,962	1,170	1,017
Faculty	2,563	1,627	388	220	239	296
Undergraduate students	30,023	24,871	9,580		17,581	8,278
Graduate students	10,140	8,962	3,086		2,671	

* Source of data: Scopus/SciVal

02 Development of IR

Open Access movement started to takeoff in 2002 with the Budapest Open Access Initiative

Singapore academic libraries were keen to support open access

Institutions were keen to promote their own research

What did the academic libraries in Singapore do?
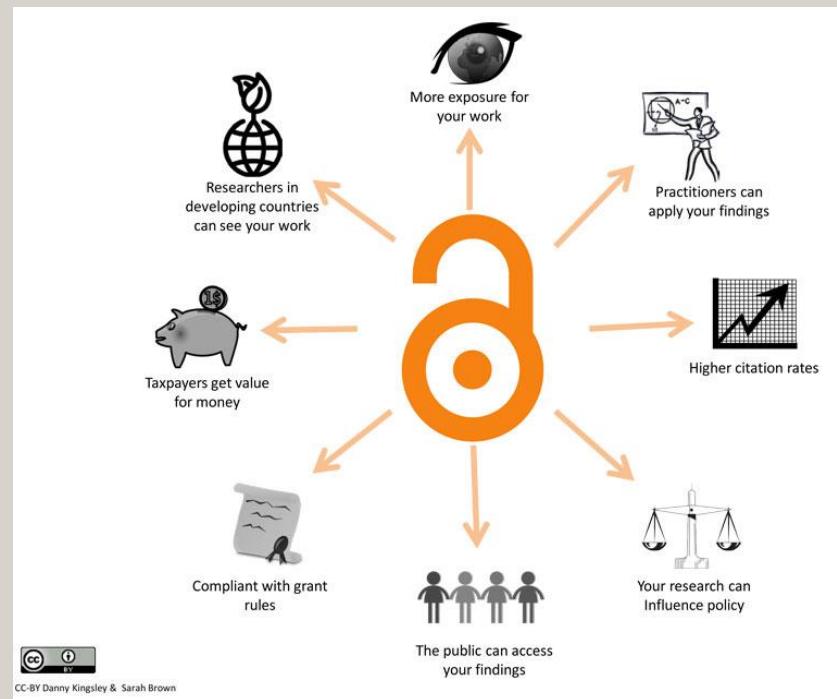
Repositori Institusi

❑ Poin-poin yang akan dipaparkan antara lain sekilas mengenai universitas yang ada di Singapura, perkembangan repositori institusi, kebijakan institusi dan koleksi khusus.

❑ Di Singapura hanya terdapat 7 universitas, yaitu NTU, NIE NTU, NUS, SIT dan SMU, SUTD, SUSS, SIT.

❑ Publikasi dihasilkan paling banyak oleh NUS dengan 100 ribu lebih publikasi, SMU menempati urutan ketiga dengan 5 ribu lebih publikasi.

Institutional Repositories in Singapore

- 2005 : NIE repository – mostly for internal use

- 2009 : NTU DR – for publications and theses

- 2010 : NUS ScholarBank - for publications and theses

    NIE, NTU, NUS use DSpace as the platform for their IRs

- 2010 : SMU InK – using Digital Commons

- 2021 : SIT IRR for papers (Figshare)

Objectives of NUS & NTU IRs
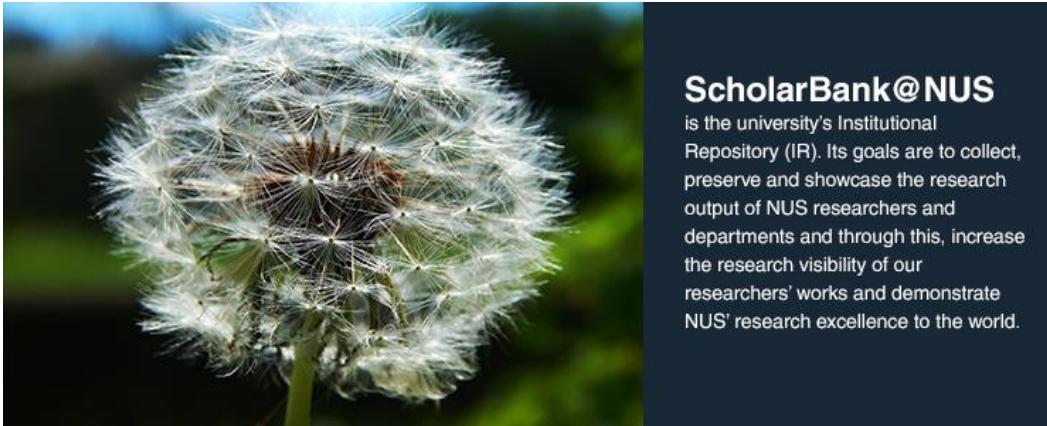
ScholarBank@NUS
is the university's Institutional Repository (IR). Its goals are to collect, preserve and showcase the research output of NUS researchers and departments and through this, increase the research visibility of our researchers' works and demonstrate NUS' research excellence to the world.

OPEN YOUR RESEARCH TO THE WORLD AND LET THE CITATIONS ROLL IN!

Improve chances of higher citations when you make your papers freely available in DR-NTU!
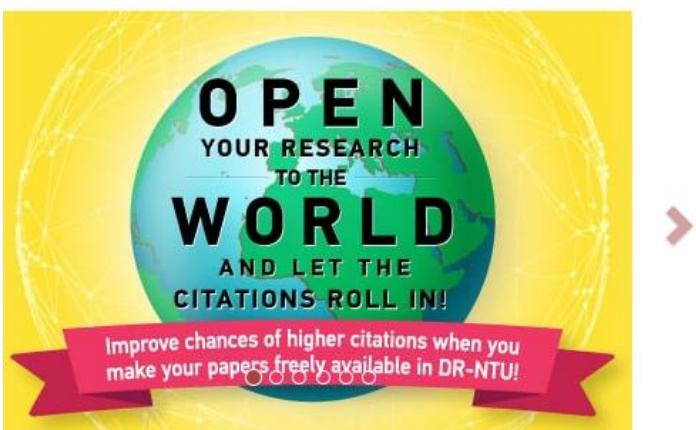
Welcome to DR-NTU

DR-NTU, the Digital Repository of NTU, is to capture, store and showcase the scholarly outputs of Nanyang Technological University (NTU). By showcasing and disseminating the research outputs of NTU researchers and students, DR-NTU aims to increase the visibility of NTU's research and facilitate research collaboration.

Objectives of SMU InK

- To create visibility and raise the profile of SMU research and scholarly assets

- To provide organisation of the records of SMU research and scholarly assets

- To provide access to the full text where possible of SMU research and scholarly assets

Repositori Institusi

❑ Pada tahun 2005, NIE mulai mengembangkan repositori meski hanya untuk penggunaan internal.

❑ SMU mengembangkan repositori institusi dengan nama SMU InK pada tahun 2010 dengan menggunakan digital commons.

❑ Tujuan dari SMU InK adalah untuk meningkatkan profil, menyediakan organisasi record full text dari riset SMU dan aset ilmiahnya.
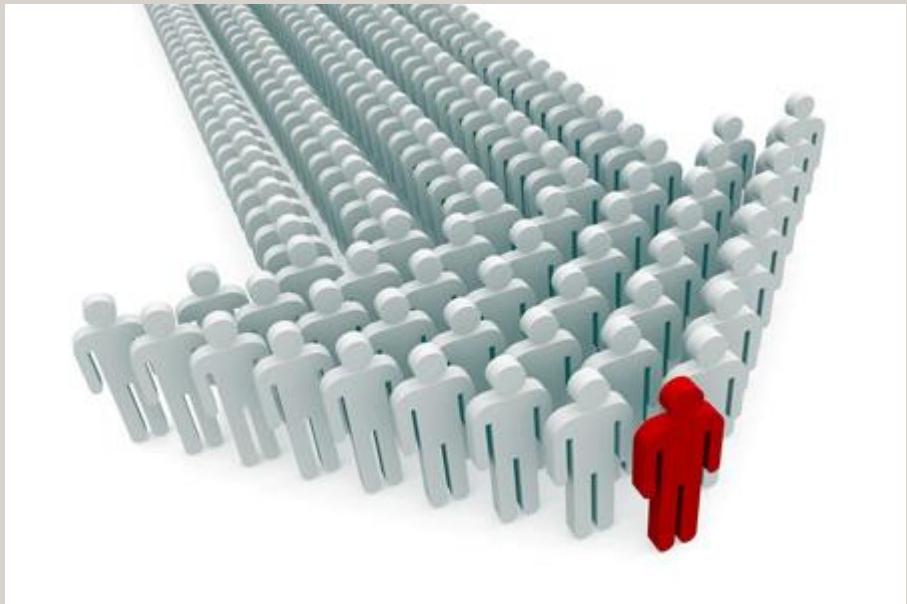
Library needs to have alignment with the vision / mission / goals of your institution

Setting up an IR

- Align the IR with vision / goals / policies at your institution

  Menyamakan misi, tujuan dan kebijakan repositori institusi dengan institusi

- Get buy in from the key stakeholders

  Mendapatkan dukungan penuh dari manajemen

- Sell the benefits to the stakeholders and the institution

  Menjelaskan keuntungan dari repositori institusi

- Propose to set up a repository   Mengajukan proposal

- Secure the budget and resources Mengajukan anggaran dan sumber daya

SMU research information workflow
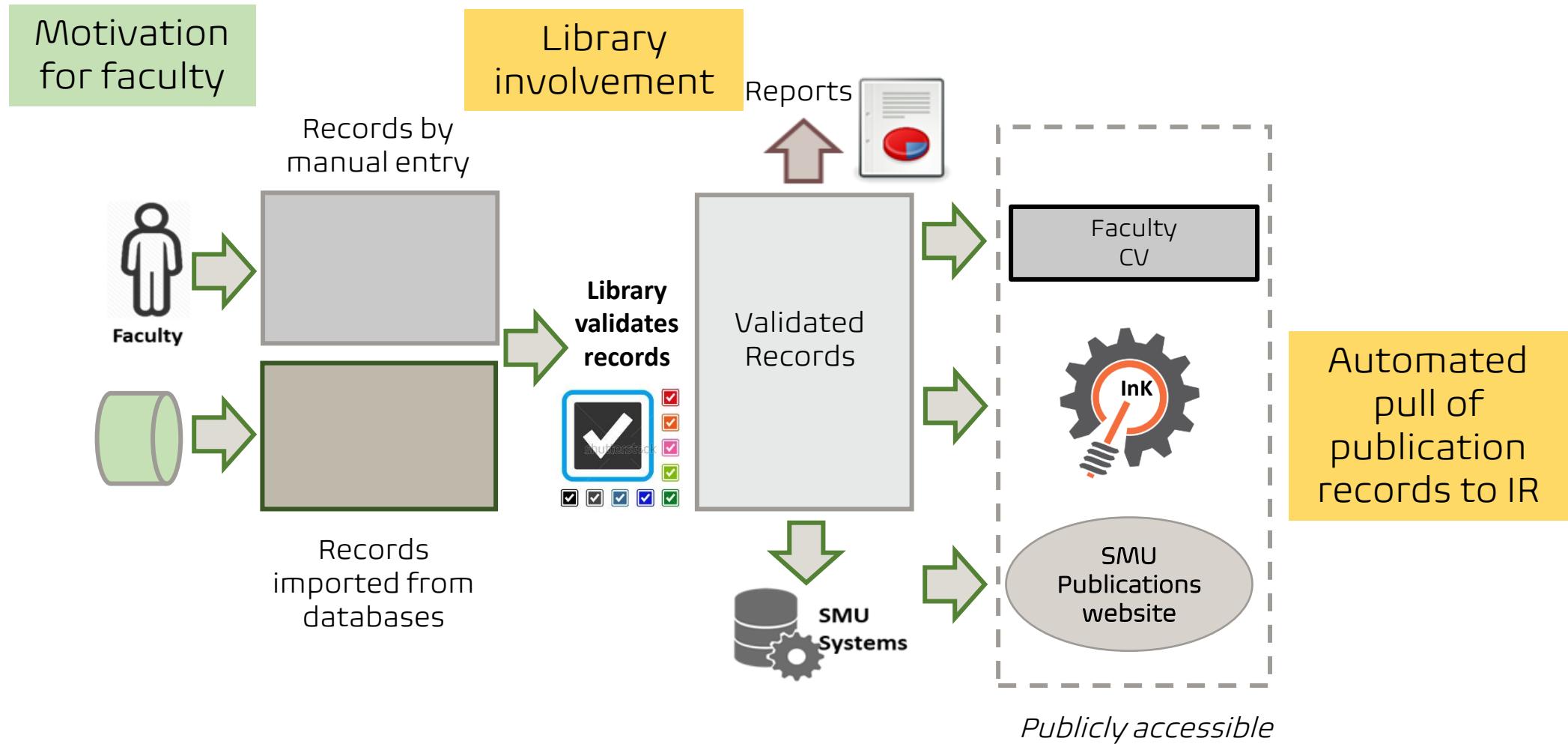
Alur informasi riset di SMU
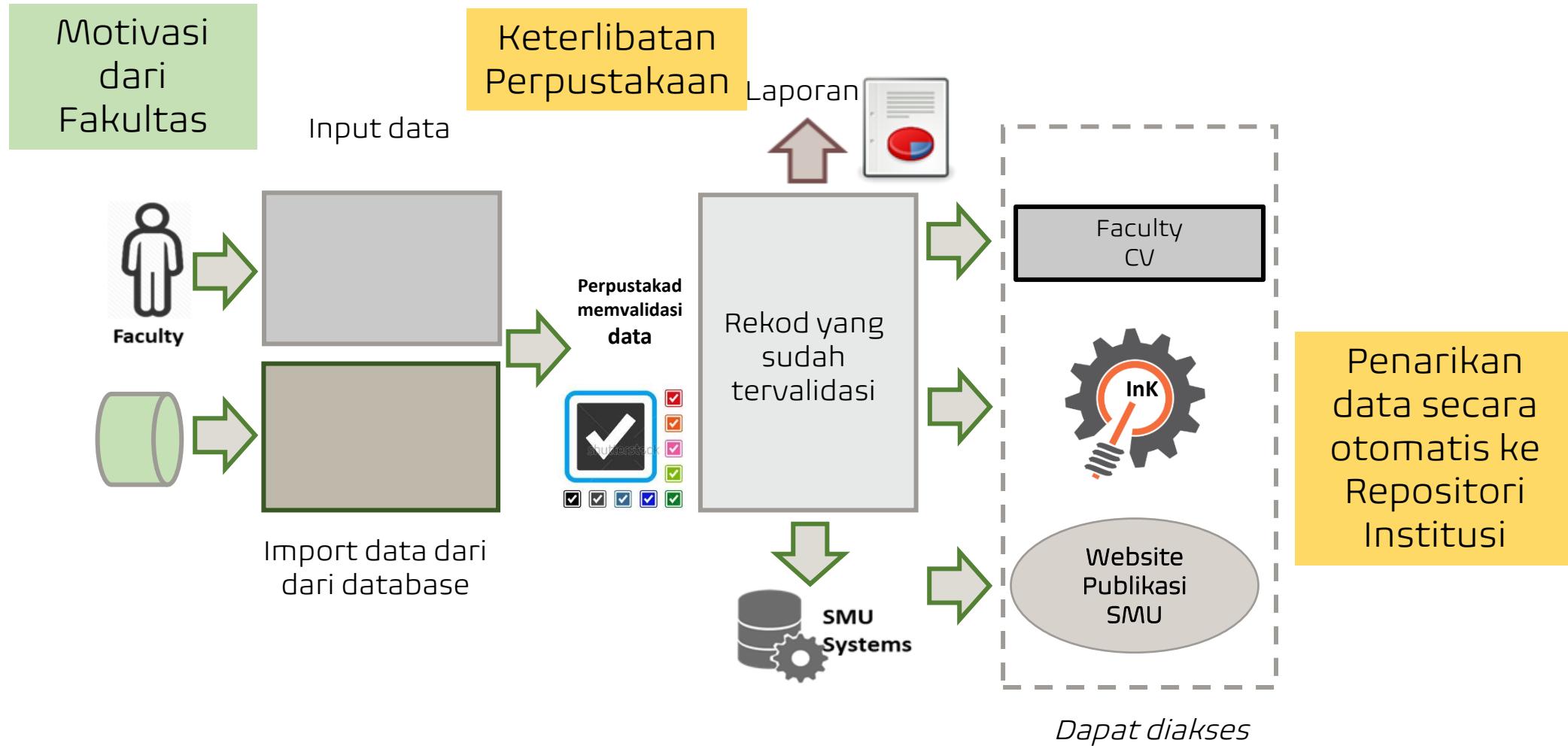
NUS, NTU, & SMU IRs are linked to the current research information system and this allows regular uploading of records and full text to the IRs

Saat ini NUS, NTU dan SMU berkolaborasi dalam sistem informasi penelitian yang memungkinkan untuk menggunggah data secara berkala dan full teks ke repositori institusi.

Open Science & Open Data

- Funders starting to ask for data to be shared / deposited

- Journal publishers starting to ask for data availability

- Some subject disciplines share data

- Some research results cannot be replicated

- Opportunity for libraries to support these needs

Data Repositories in Singapore

- 2017 : NTU DR (Data) (Dataverse)

- 2018 : NIE Data Repository (Dataverse)

- 2018 : NUS ScholarBank enhanced for datasets

- 2020 : SMU RDR (Figshare)

- 2021 : SIT IRR for both papers & data (Figshare)

Sustaining an IR
Repositori dapat bertahan lama jika

- Ensure discoverability on search engines

- Build content – regular uploads

- Engage the community

- Promote usage

- Dapat ditemukan di mesin pencari

- Diunggah secara berkala

- Menjalin komunikasi yang baik dengan sivitas akademika

- Mempromosikan cara penggunaan

Repositories of Universities in Singapore

Institution	Repositories	URL
NTU	DR-NTU (Publications) (DSpace) DR-NTU (Data) (Dataverse) Research Data Storage System – for in-progress data and finalised but sensitive data	https://dr.ntu.edu.sg https://researchdata.ntu.edu.sg Intranet access
NIE NTU	NIE Digital Repository (DSpace) 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
NUS	Scholarbank (DSpace) • Publications and Data repository Digital GEMS • Digitised materials collection	https://scholarbank.nus.edu.sg https://digitalgems.nus.edu.sg
SIT	Institutional Research Repository (IRR) (Figshare) • Publications and data repository	https://irr.singaporetech.edu.sg
SMU	InK (Digital Commons) Research Data Repository RDR (Figshare)	https://ink.library.smu.edu.sg https://researchdata.smu.edu.sg
SUTD	Institutional Repository (in process)	-

Data Repositori

Selain repositori institusi, di Singapura terdapat istilah data repositori untuk menjawab kebutuhan berbagi data antar institusi dan dari penerbit jurnal yang dimulai tahun 2017 oleh NTU, dan diikuti oleh SMU pada tahun 2020.

03 Institutional policies

Open Access & Open Science Policies

Institution	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)
Singapore research institutes	Joint Statement on Research Integrity relating to Scholarly Publications (2018)

Policies by research funders

Funding Bodies	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)

Open Access Kebijakan

❑ Kebijakan Open Access di Singapura dapat dilihat secara online antara lain di website NUS maupun di SMU.

❑ Di Singapura, terdapat National Research Foundation. NRF ini mewajibkan setiap universitas untuk memiliki kebijakan OA dan mensyaratkan setiap universitas untuk mengunggah tautan untuk publikasi yang OA.

04 Special Collections

- Keep an eye out for interesting collections to add to the IR

- [NUS Digital Gems](#) include the papers of Edwin Thumboo, Koh Kim Yam and the Earl of Cranbrook, historical newspapers from Southeast Asia published in Chinese, Jawi and English

- Recordings of musical performances from the NUS Yong Siew Toh Conservatory of Music

- NIE IR has the manuscripts of [Dr Muhammad Ariff Ahmad](#).

SMU Oral History

- Project to record the personal recollections of stories, ideas and thinking by those involved in planning and shaping SMU

- https://ink.library.smu.edu.sg/smu_oh/

SMU Lien Centre Reports

- From exploring unmet social needs in Singapore, to documenting the landscapes of social finance and corporate philanthropy in Southeast Asia, Lien Centre researchers translate discovery into meaningful, measurable impact that is changing the world for the better.

- https://ink.library.smu.edu.sg/lien_reports/

Koleksi Khusus

➢ Terdapat koleksi khusus yang merupakan keunggulan dari beberapa universitas, seperti dari NUS yaitu surat kabar bersejarah yang terbit di Asia Tenggara dalam Bahasa Cina, Jawa dan Inggris.

➢ SMU memiliki sejarah lisan yang merupakan koleksi pribadi berupa cerita, ide, pemikiran oleh orang-orang yang terlibat dalam pembangunan SMU/

Look out for unique and interesting collections by your institutions, and perhaps even your community

05 Sharing Best practices

Collaboration and sharing

- 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 meetings cum sharing session

- Events

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

https://blogs.ntu.edu.sg/ntulibrary/2020/10/29/rstf2020-webinar-a-recap/
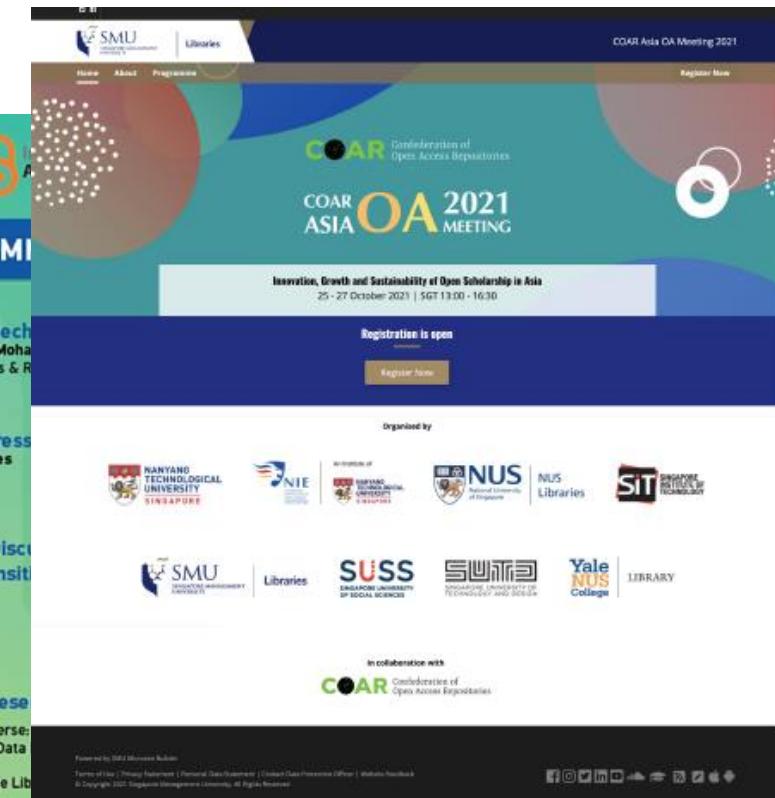
Berkolaborasi dan berbagi

- SMU mengingatkan akan pentingnya berkolaborasi sambil berbagi ilmu dan pengalaman
- Terdapat organisasi perpustakaan perguruan tinggi di Singapura yang bernama Singapore Alliance of University Libraries
- Perpustakaan berkolaborasi untuk meningkatkan dukungan riset dan menyediakan wadah untuk meningkatkan riset di Singapura dengan mengadakan pertemuan setiap 3 bulan sekali

06 Summary

Align with institutional goals / policies

Promote IR

Get into the research workflow

Look out for special collections

Ensure discoverability of IR

Share best practices

Overview of IRs in Singapore
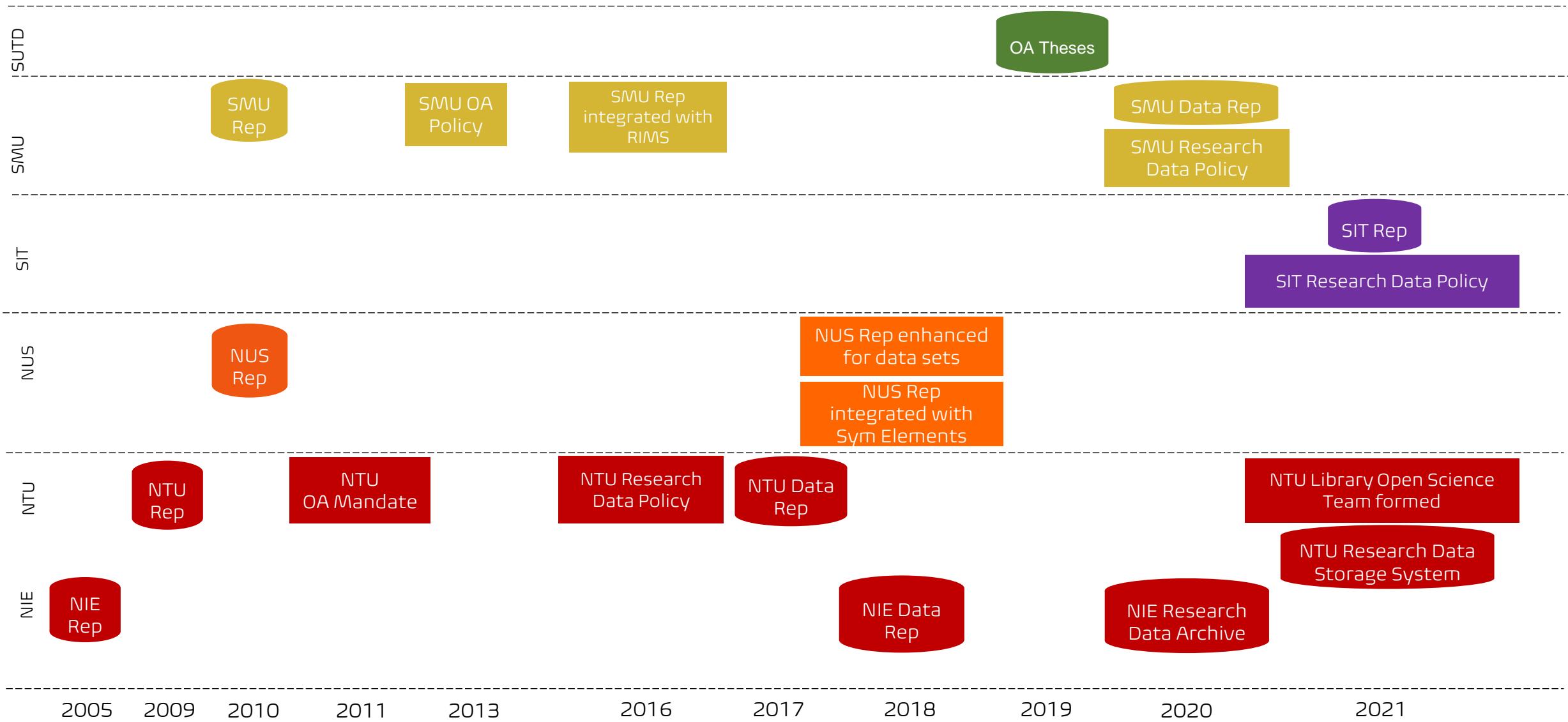
Thank you for your attention

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Reference: Ooi, Lian Ping. (2021). Open access and open science in Singapore. Presented at COAR Asia OA Meeting.
https://ink.library.smu.edu.sg/asiaoa2021/program/agenda/6/