

## TO BE AN INNOVATIVE & TRUSTED PARTNER FOR DIGITAL SCHOLARSHIP (DS) IN NUS

### Our Scope

[1] Build a robust infrastructure [2] Analytics for special collections [3] Facilitate use of digital methods [4] Facilitate interdisciplinary research [5] Collaborative research projects [6] Recruit/develop to be partners in DS

### Guiding Principles

- The right core staff:** Interest, attitude, aptitude and skills.
- Values matter:** By using values to evolve our services, we ensure librarianship stays meaningful to our users.
- Quality matters:** Rigour and quality builds credibility and trust. Requires knowledge of research methods.
- Momentum:** Start small with projects that utilise existing skills, implement in phases, focus on champions.
- Learning culture:** Emphasis on staff development.
- Local context:** Scope services based on local ecosystem, and local demand and supply of skills and interests.
- Scalability & sustainability** (Vinopal & McCormick, 2013)

### Local Context

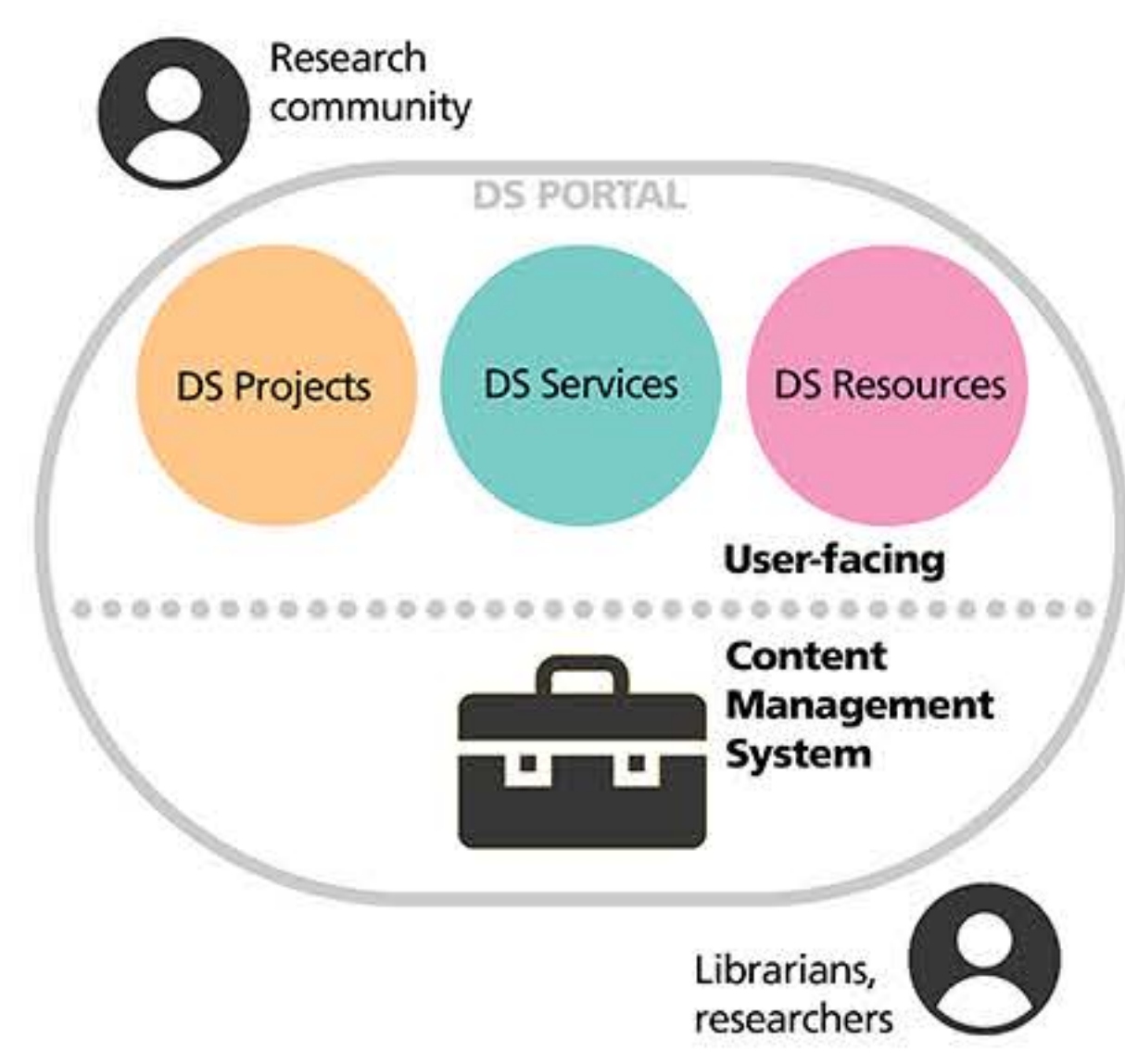
- [1] Funding from operational budget
- [2] Few in job market with complete set of DS competencies
- [3] No existing mature "Digital Humanities" community

	2017	2018	2019	2020
<b>Objective</b>	• Understand ecosystem via small projects	• To be an innovative and trusted partner for DS in NUS		• To be a DS hub in NUS
<b>Build a Robust Infrastructure</b>	• DS Portal • Collaboration space	• API endpoints for repositories • Datarama visualization cylinder • DS Lab prototyping		• DS Lab
<b>Analytics for Special Collections</b>	• API endpoints for bibliographic metadata of special collections	• API endpoints for text statistics of special collections • Name authority file linked data service: Organisations	• API endpoints for text analytics of special collections • Name authority file linked data service: People	• Name authority file linked data service: Places
<b>Facilitate Use of Digital Methods</b>	• Basic consultation	• Basic consultation • Specialised consultation (Fellows)		
<b>Facilitate Interdisciplinary Research</b>	• Workshops & symposiums • Reading group meetups			• Workshops & symposiums • Reading group meetups • DS Conference
<b>Collaborative Research Projects</b>	• Grant-funded collaborative projects • Collaborative projects • Library-led projects		• Grant-funded collaborative projects • Collaborative projects • Library-led projects • Fellowship projects	
<b>Recruit/Develop to be Partners in DS</b>	1 Coordinator 0.2 Librarian 0.5 Librarian + IT support	1 Coordinator 1 DS Technologist 1 DS Librarian + IT support	1 Coordinator 1 DS Technologist 1 DS Librarian 2 Fellows + IT support	

## DS PORTAL: A NEXT-GENERATION CONTENT MANAGEMENT SYSTEM

### Virtual DS Hub in NUS

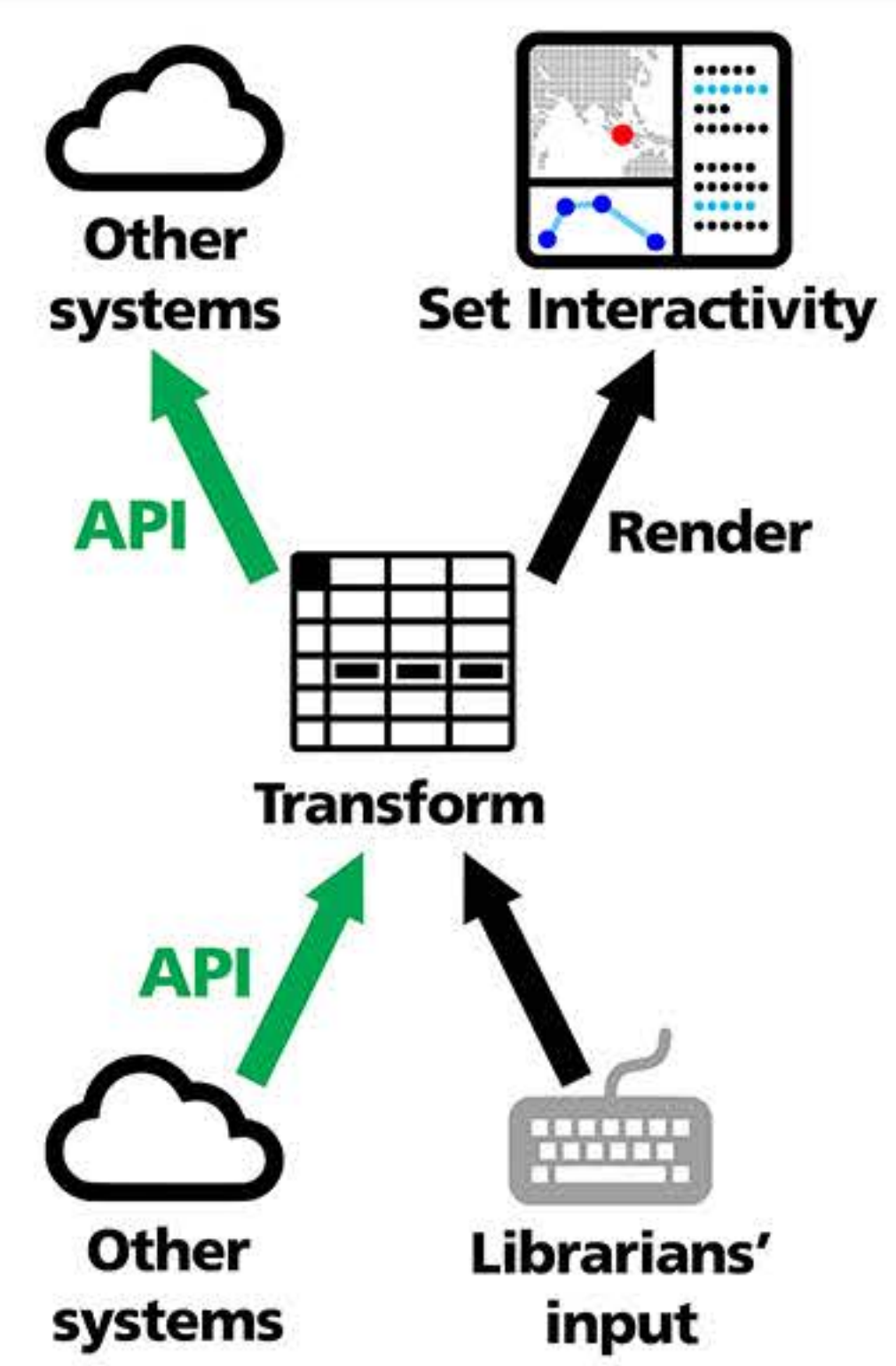
A hub that connects researchers involved in DS. The goal is to improve discovery of collaboration opportunities, visibility of NUS research outcomes, and facilitate access to projects, services and resources.



### Empower Subject Librarians to Create Dynamic Exhibits

A "next-gen" content management system simplifies the creation of innovative digital exhibits to facilitate discovery.

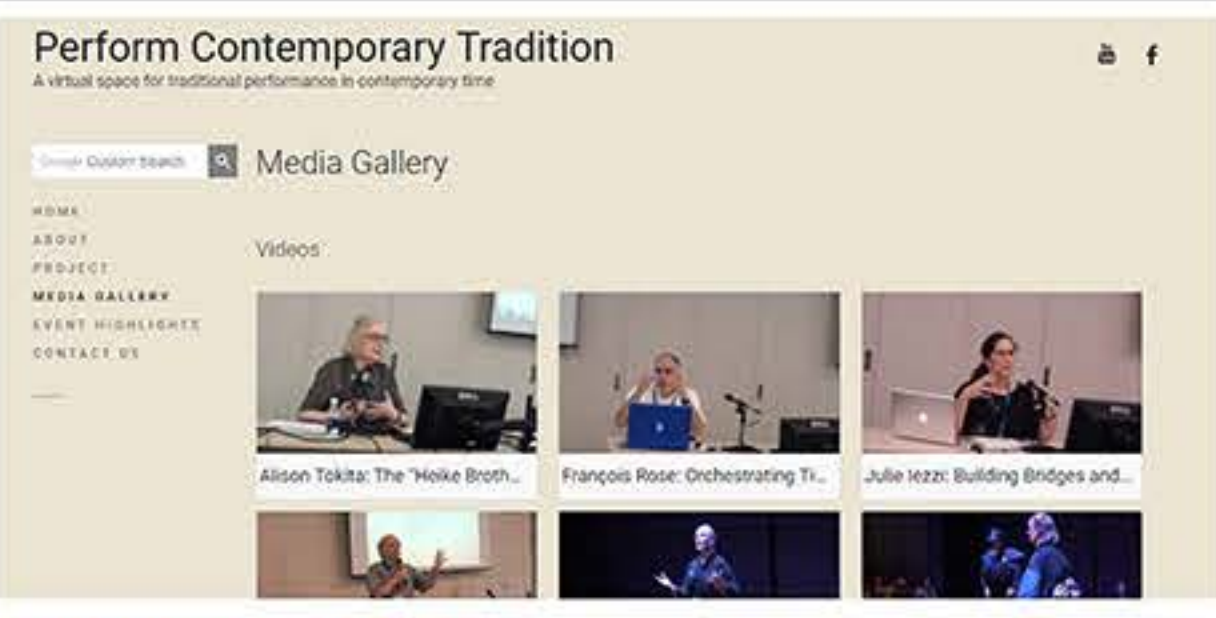
- Scalable data entry:** Spreadsheet with following features:
- Import tabular text data (eg. CSV) produced from various software and workflows
  - Read directly from Google Sheets, enabling real-time collaborative data entry
  - Parse data via API
- These features help streamline data entry common in most content management systems, reducing manual work.
- Transform and render:** OpenRefine-like data transform tool facilitates data cleaning. Columns are then mapped to widgets and rendered. Each widget has an API endpoint.
- Interactive linked views:** Widgets can show different content types (eg. maps, text, photos) and allow for non-linear browsing by geography, time, subject, etc.
- Easy customisation:** Click and drag widgets to rearrange, edit code directly to tweak rendering behaviour.



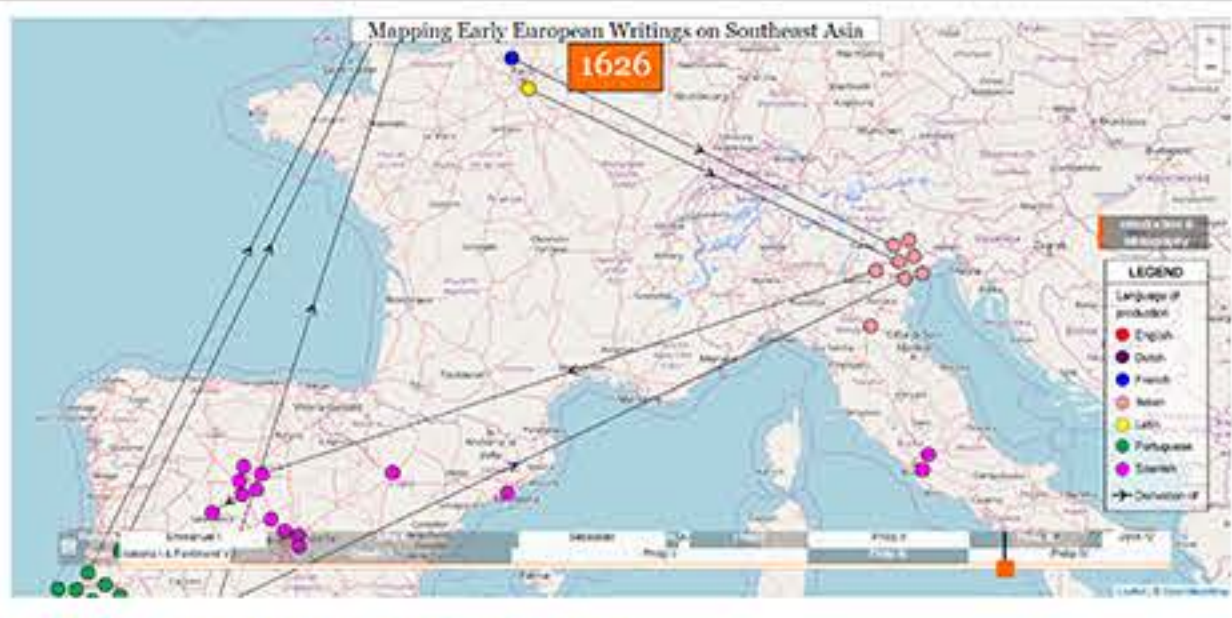
## COLLABORATIVE PROJECTS



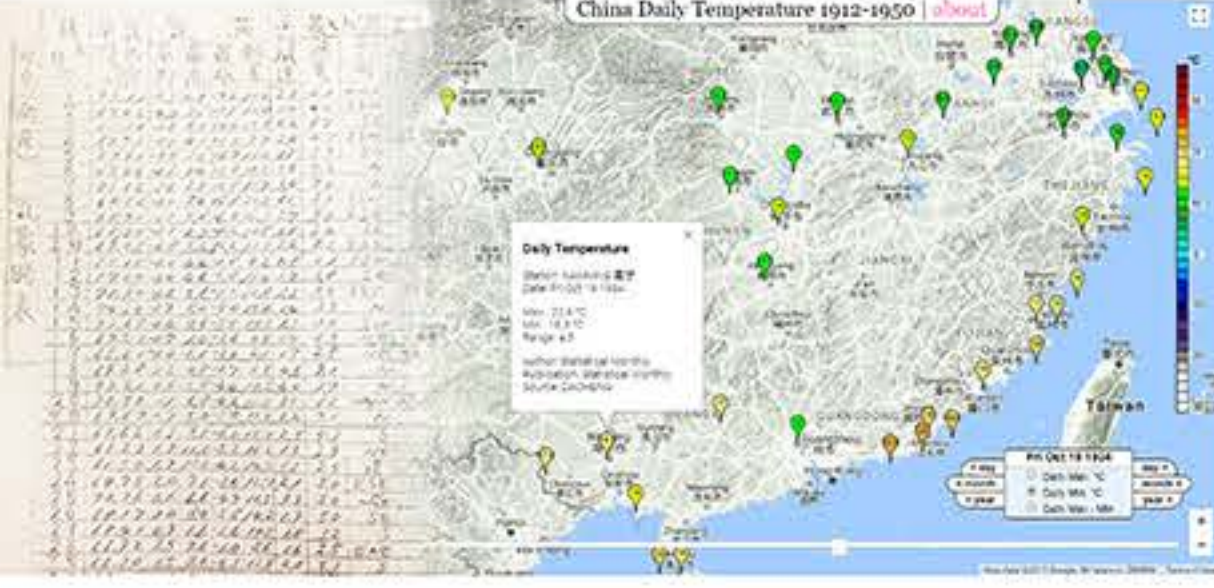
[blsea.nus.edu.sg](http://blsea.nus.edu.sg) The Biodiversity Library of Southeast Asia (BLSEA, above) is an open access digital library. BLSEA provides access to biodiversity research materials on Southeast Asia for students, educators, researchers and the general public. It is a collaborative project with the Lee Kong Chian Natural History Museum (LKCNHM), Singapore.



[performct.nus.edu.sg](http://performct.nus.edu.sg) Perform Contemporary Tradition (PerformCT, above) is an open-access, multi-media archive for academic and theatrical works that are related to traditional performance today. It is a collaboration with A/P Lim Beng Choo from the Dept of Japanese Studies, NUS.



[doi.org/10.25541/V5AF-1BBY](https://doi.org/10.25541/V5AF-1BBY) Mapping Early European Writings on Southeast Asia is an interactive visualisation of 57 early Iberian writings on Southeast Asia from the 16th to mid-17th century, comprising of a connection map (above) and a semantic graph (below). It is a collaboration with a PhD student Cuauhtémoc Villamar from Dept of History, NUS.



**China Meteorological Publications 1872-1951** (left) As part of Ministry of Education Academic Research Fund Tier-2 project, Prof. Chen Yehning, A/P Chu Junhong and Prof. Ivan Png compiled a digital collection of daily China weather records spanning 1872-1951, from paper records in libraries and archives in the China, Japan, Taiwan and the USA. The digital collection was handed over to NUS Libraries, who created a listing and geovisualisation of the collection.

