Strategy and Actions towards Open Science in Kyushu University Library

Kyushu University Library

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Kyushu University Library
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ALIRG Workshop 2018
Track3-7

Open Science

Government Policies
- The 5th Science and Technology Basic Plan (Cabinet Office) (2016)
- Integrated Innovation Strategy (Cabinet Decision) (2018)
- Promoting open access to academic information in Japan (MEXT)(2016)

内閣府 Cabinet Office | 文部科学省 MINISTRY OF EDUCATION, CULTURE, SPORTS, SCIENCE AND TECHNOLOGY-JAPAN

Roles →

Research institutions
- Promoting open access to publicly-funded research outputs
- Expanding Institutional Repository
- Developing policy/plan for data management and utilization

Universities | National Research Agencies

J P C O A R
オープンアクセスリポジトリ推進協会
Japan Consortium for Open Access Repository

Funders
- Developing open access policy
- Mandating data management plan
- Recommending open research data

日本学術振興会 Japan Society for the Promotion of Science
NEDO | AMED

Infrastructure
- Developing system to promote management, disclosure and discovery of research outputs
- Promoting DOI registration

Japan Link Center | NII 国立情報学研究所 National Institute of Informatics
ORCID Japan Consortium for Research Institutions | JST
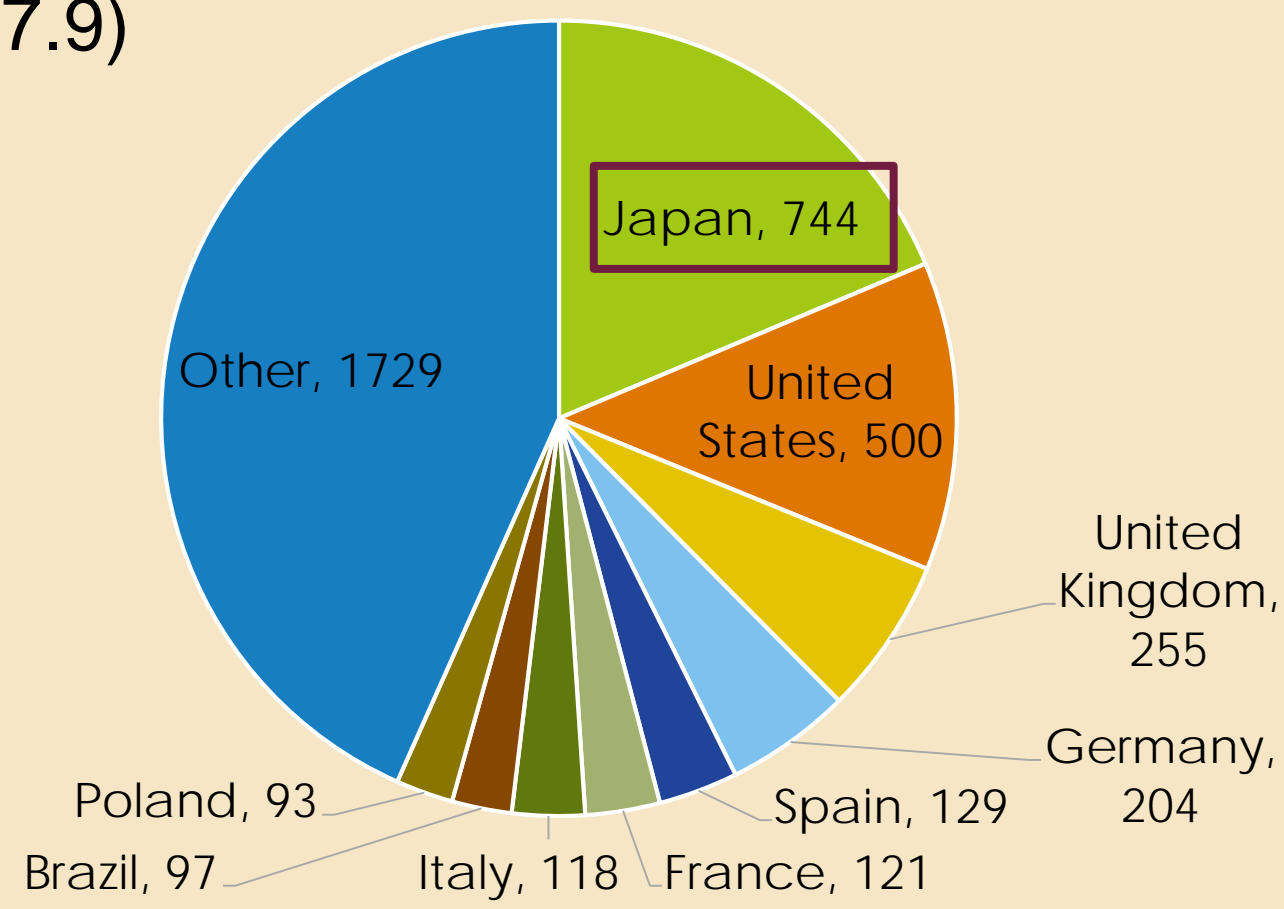

Japan

Kyushu University

Open Access

JAIRO Cloud
- Cloud-based institutional repository by NII
- It has promoted the development of institutional repositories at Japanese universities.
  - Japanese university's IR: 754
  - JAIRO Cloud IR: 498
  - All contents: over 2.2 million (as of 2018.3)

Number of institutional repositories in the world
(as of 2017.9)

- Japan, 744
- United States, 500
- United Kingdom, 255
- Germany, 204
- France, 121
- Spain, 129
- Italy, 118
- Brazil, 97
- Poland, 93
- Other, 1729

https://www8.cao.go.jp/cstp/gaiyo/yusikisha/20180125/siryo1.pdf

Open Access Policy in Japan
- 25 institutions have OA policies (as of 2018.12)

Open Access to publications in Kyushu University
- QIR: Kyushu University Institutional Repository (2006-)
- Open Access Policy (2016)
- Open Access Guideline (2017)
- Q-RADeRS: University CRIS system (2018-)

A briefing of OA policy to our faculty members

Cooperation between CRIS and IR
Q-RADeRS is interoperable with QIR.

Q-RADeRS → QIR
https://catalog.lib.kyushu-u.ac.jp/opac_browse/papers/

QIR contents

(contents)
year	cumulative	that year
2007	9	9
2008	16	7
2009	10665	10649
2010	14615	3950
2011	15639	1024
2012	20974	5335
2013	24339	3365
2014	27787	3448
2015	31011	3224
2016	32639	1628
2017	34302	1663
2018	36338	2036

Bar graph: cumulative total, Line graph: total of that year

Gold OA
Kyushu University funding to SCOAP^3 project, flipping subscription journals in high energy physics to open access journals
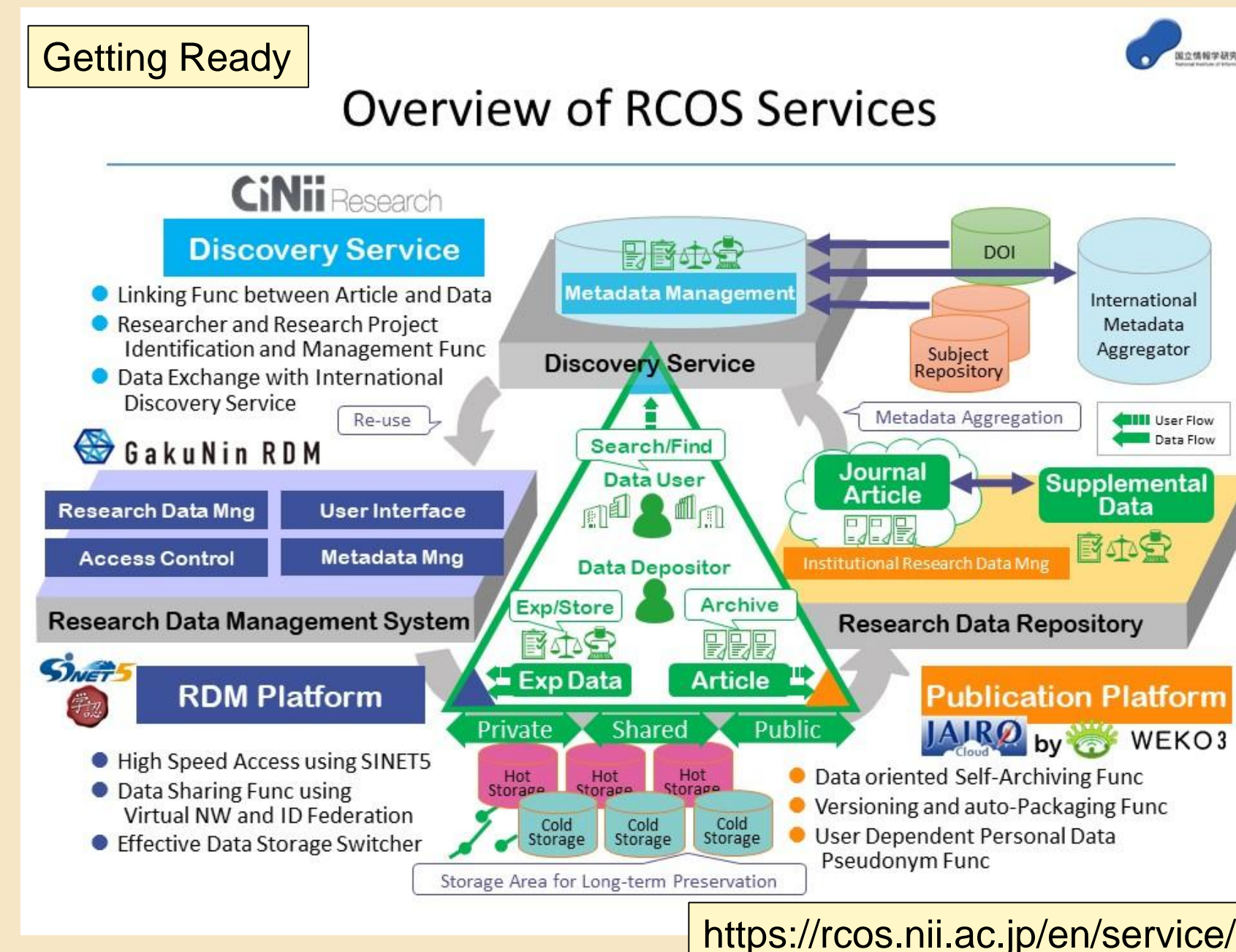

Open Data

Integrated Innovation Strategy (Cabinet Office)
内閣府 Cabinet Office
Plans to start an infrastructure to advance management, storing and discovering for research data in 2020

NII-Open Science Infrastructure services
- GakuNin RDM (data management platform)
- JAIRO Cloud by WEKO 3 (repository platform)
- CiNii Research (data discovery platform)

Overview of RCOS Services

https://rcos.nii.ac.jp/en/service/

Data policies in Japan
- Funders
  - JST | AMED
  - Evidence data
  - Data Management Plan (DMP)
- National Research and Development Agencies
  - Open Data
- Universities?
  Coming soon!
  - Open Science

Activities for Open Data, in Kyushu University
- Guidelines for Research Data Storage (2015.8-)
  Rules for the contents, storage periods, storage methods and disclosure methods of research data. Open data not yet.
- A working group consisting of 14 members from 6 faculties, 2 institutes and Library (2018.10-)

Faculty of Arts and Science	Faculty of Science
Faculty of Humanities	Faculty of Information Science and Electrical Engineering
Faculty of Human-Environment Studies	Medical Institute of Bioregulation
Faculty of Law	Research Institute for Information Technology
Library R&D Division	

Our Goal: Develop an open data policy

FY2018 Draft → FY2019 Adopt → FY2020 Take off → University Data Policy

To Decide:
  Purpose of Open Research Data?
  Definition? Target? Exception?
To Do:
  Interview with faculties
- Designing RDM service
- Current Issue: Collaboration with other departments in the university
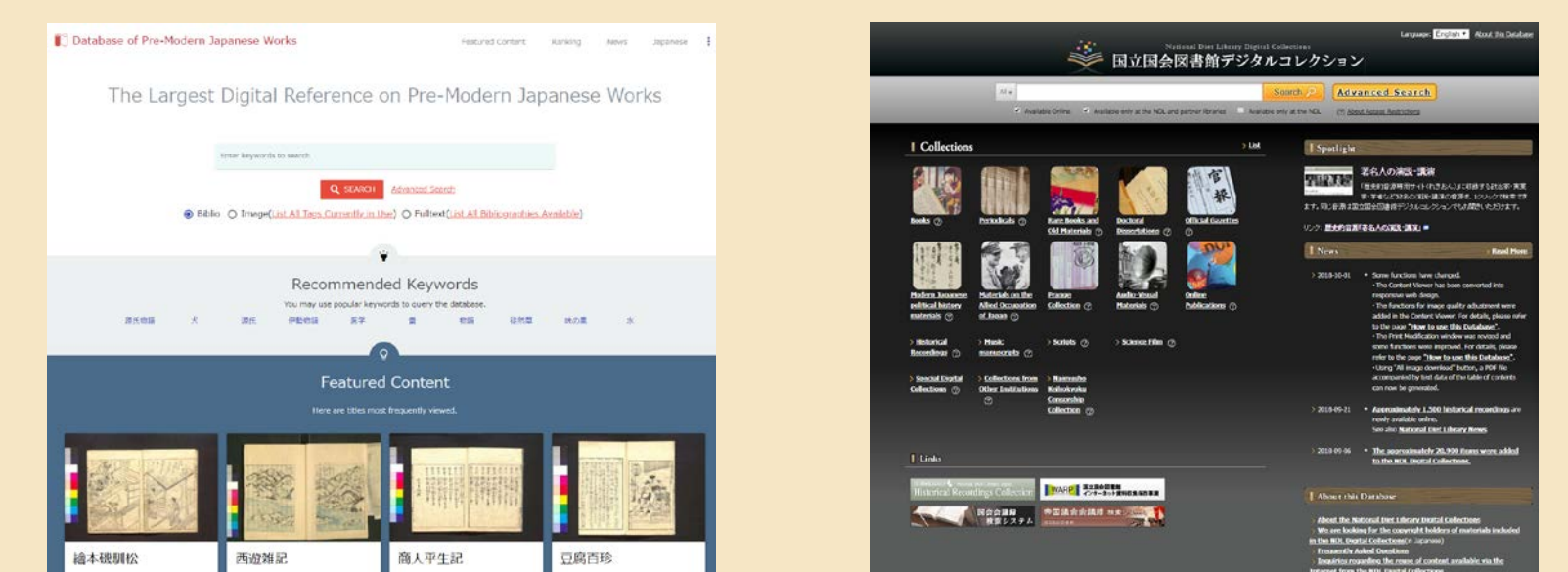
KYUSHU UNIVERSITY

Digital Humanities

Mass digitization
- NDL (National Diet Library)
- NIJL (National Institute of Japanese Literature)
  - Project to Build an International Collaborative Research Network for Pre-modern Japanese Texts (NIJL-NW project) (2014-2023)
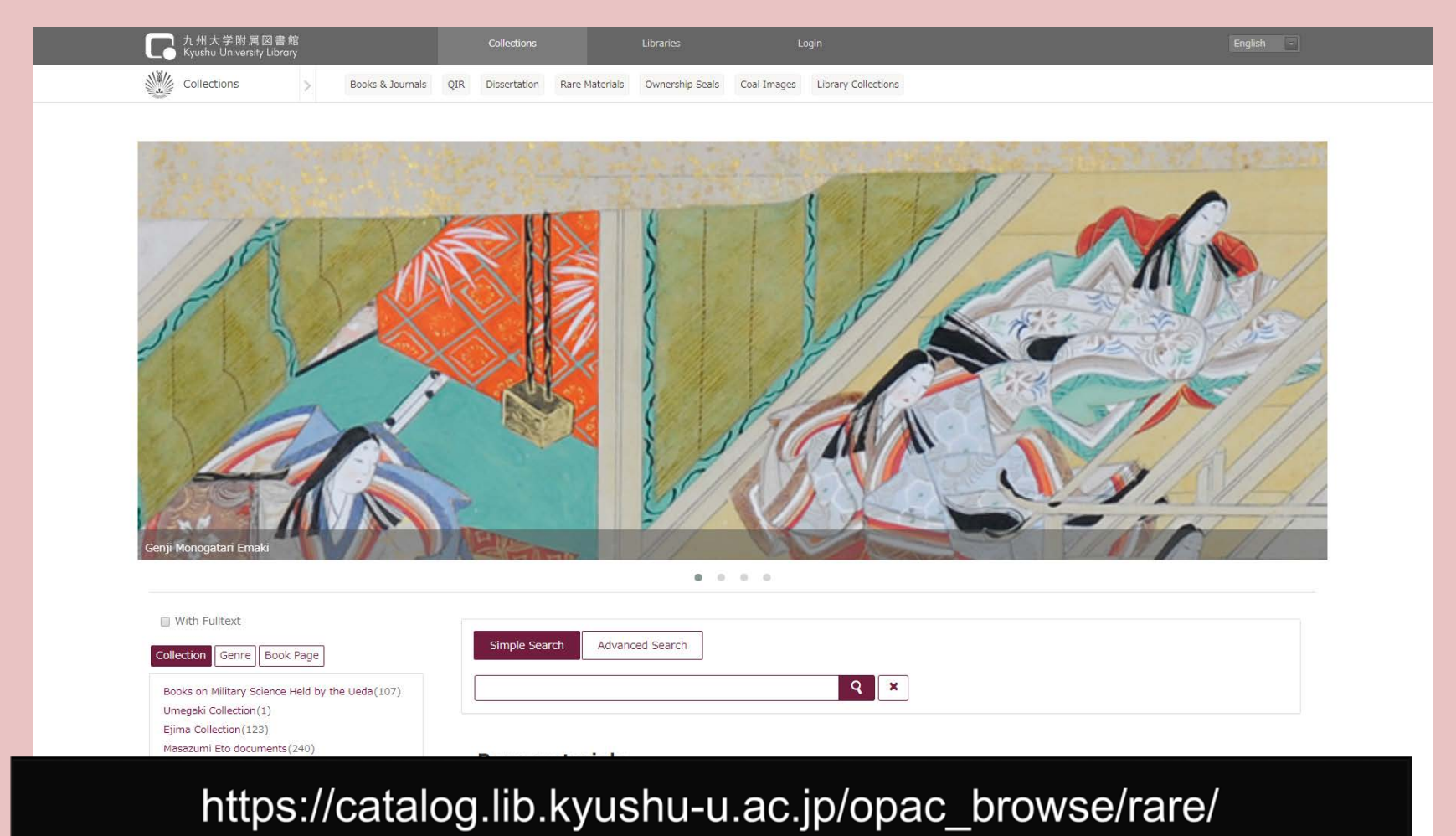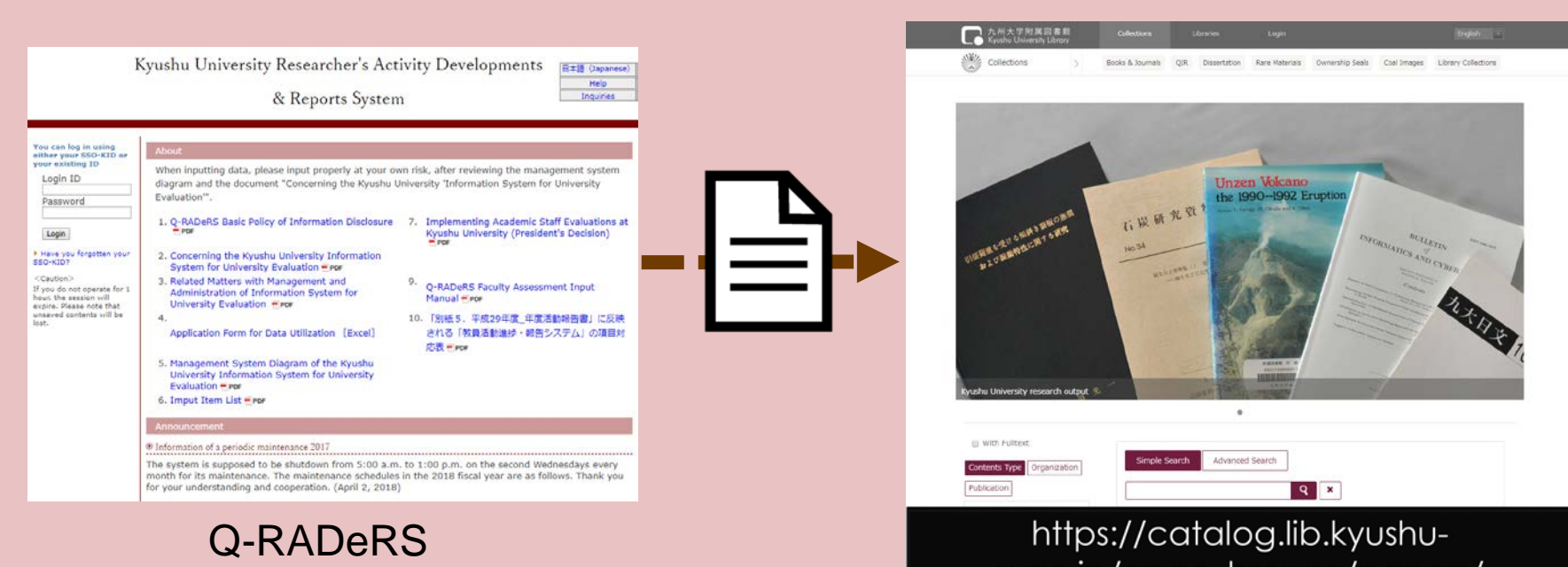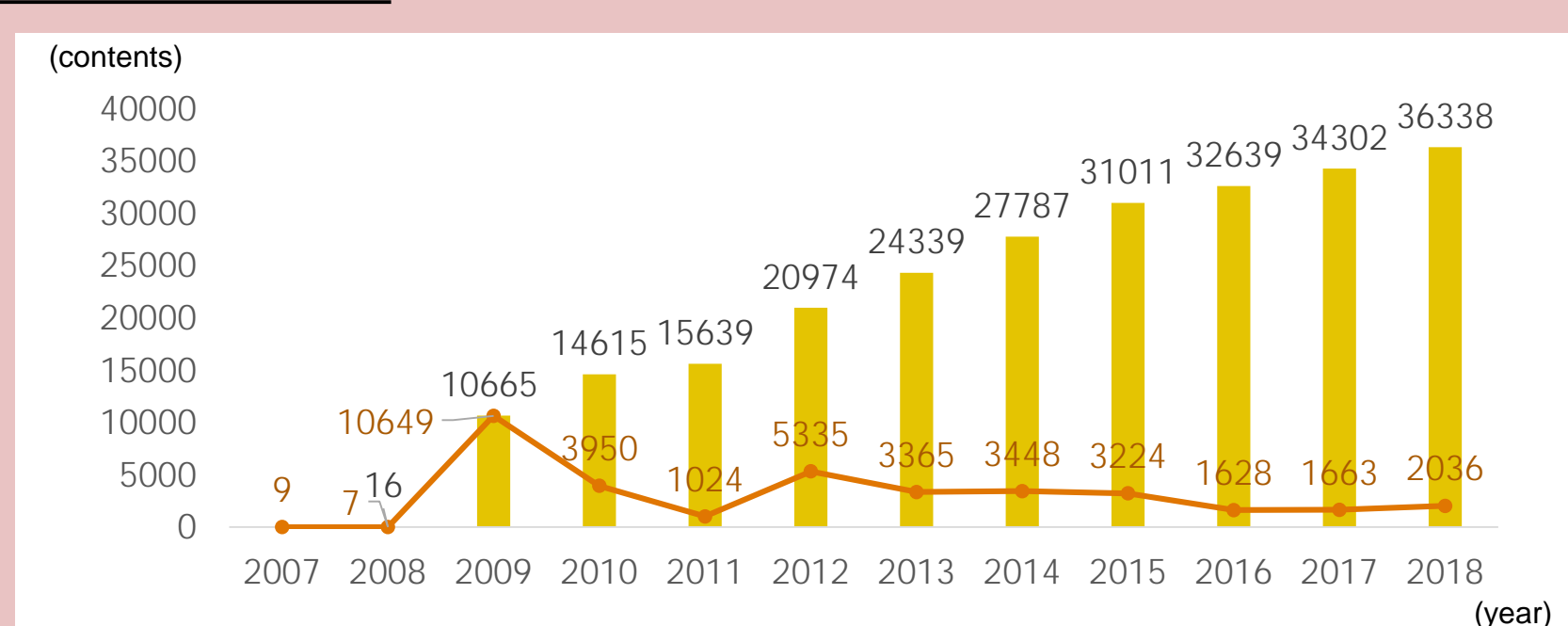
National search portals
- NDL Search (NDL)
- DB of Pre-Modern Japanese Works (NIJL)
- Japan Search (NDL) (to appear by 2020)

IIIF (International Image Interoperability Framework)
- Implemented by Kyoto, Keio, Shimane, Tokyo, Chiba, Kyushu, Saga, NIJL, NDL, ...
- IIIF Discovery in Japan
  http://iiif2.dl.itc.u-tokyo.ac.jp/s/iiif/page/home

Kyushu University Rare Collections

https://catalog.lib.kyushu-u.ac.jp/opac_browse/rare/

Items: 108,317 / Images(JPG/PDF): 165,856 (as of 2018-12)

Achievements
- Integration to unified system (2013)
- Joining the NIJL-NW project (2014-)
- Findable in NDL Search (2016-)
- **IIIF-compliant** (2017-)
- **Open License** for reusability
  - Public Domain to Images (2018.10)

Future Plans
- More Open: CC0 to Metadata (in preparation)
- More In-house digitization
- Assigning DOI

Our activities towards "Open" is based on one single unified infrastructure, Kyushu University Collections
https://catalog.lib.kyushu-u.ac.jp

九州大学附属図書館
Kyushu University Library