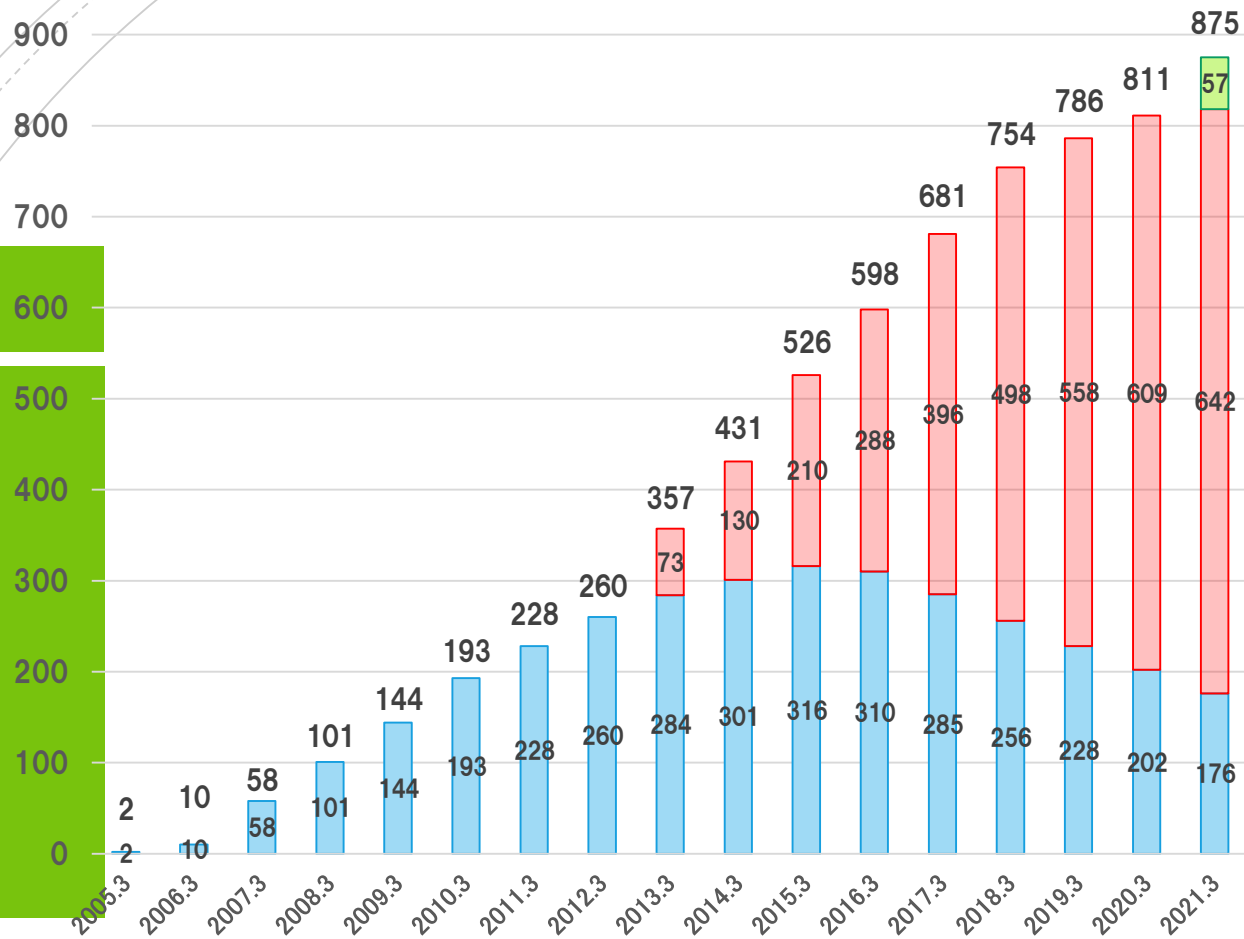


Development of JPCOAR Checklist and its Trial

Koh SUGAWARA
Hitotsubashi University

Number of Institutions Which Have Released Repositories



875

institutions have released repositories.

- Repositories under construction on JAIRO Cloud
- Repositories built on JAIRO Cloud
- Repositories built on software other than JAIRO Cloud

60%

of Japanese institutions that have released repositories responded there are issues in maintaining the implementation structure and clarifying the position of the repository project within university

Source:

*Ministry of Education, Culture, Sports, Science and Technology of Japan
Science Information Infrastructure Statistics of Colleges and Universities. FY2020
<https://www.e-stat.go.jp/en/stat-search/files?page=1&toukei=00400601>*



We need to evaluate current repository operations in light of international trends and develop strategies for the future.

J P C O A R

Japan Consortium for Open Access Repository

Outline of the Presentation

- 1. What is COAR Community Framework?**
- 2. What kind of checklist have we created?**
- 3. What was the result of using the checklist?**

COAR Community Framework

■ Issue date

- October 8, 2020 (Public version 1)

■ Purpose

- Evaluate and improve their current operations based on applicable and achievable good practices

■ Process

- the COAR Working Group
- Review the framework on an annual basis

■ Existing standards referred to

- Data Citation Roadmap for scholarly data repositories, Core Trust Seal, FAIR data principles, PLOS “Criteria that Matter”, TRUST Principles for Digital Repositories, COAR Next Generation Repositories Technologies, Plan S

Perspectives for evaluation

- 1.1~1.12 **Discovery**
- 2.1~2.6 **Access**
- 3.1~3.6 **Reuse**
- 4.1~4.4 **Integrity and authenticity**
- 5.1~5.3 **Quality assurance**
- 6.1~6.2 **Privacy of sensitive data**
- 7.1~7.4 **Preservation**
- 8.1~8.2 **Sustainability and governance**
- 9.1~9.6 **Other characteristics**

Development of JPCOAR Checklist

from the framework

■ Creators

- Repository criteria team from the JPCOAR
5 members (researchers and librarians)

■ Motivation for creating the checklist

- It is not enough to translate the framework into Japanese. We need to make it available to individual institutions in Japan.

■ Number of questions we created

- 69 items based on the framework

- Conversion of abstract expressions into **concrete questions** that can be answered **with yes/no style**

Features of the Checklist ①

Framework

- 6.1 In cases where the repository is collecting sensitive research data, there are mechanisms that allow data owners to limit access to authorized users only

Our checklist

- 6.1.1 Does the repository cover the collection of sensitive data? Yes No
- 6.1.2 Does the repository have the ability to restrict access to resources? Yes No
- 6.1.3 If the repository has the ability to restrict access to resources, what methods can be used to control it?
 - By authenticated user
 - Within IP address range
 - Unauthenticated users (e.g. issuing a temporary URL for peer review)
 - Other

- Preparation of **the options reflect domestic situation in Japan**, While keeping in mind that this is a global framework

Features of the Checklist ②

Framework

- 1.1 The repository supports high quality metadata and controlled vocabularies (discipline-based, region-based, or general (e.g., Dublin Core) metadata schemas)

Our checklist

- 1.1.1 Is there a schema or frame that you adhere to when creating metadata for the repository?
(Multiple choices are possible)
 - JPCOAR schema**
 - DataCite
 - Dublin Core
 - junii2**
 - Learning Object Metadata
 - LIDO
 - SPASE
 - Other

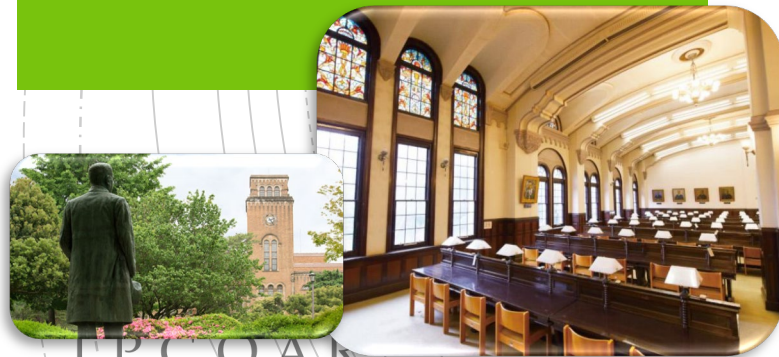
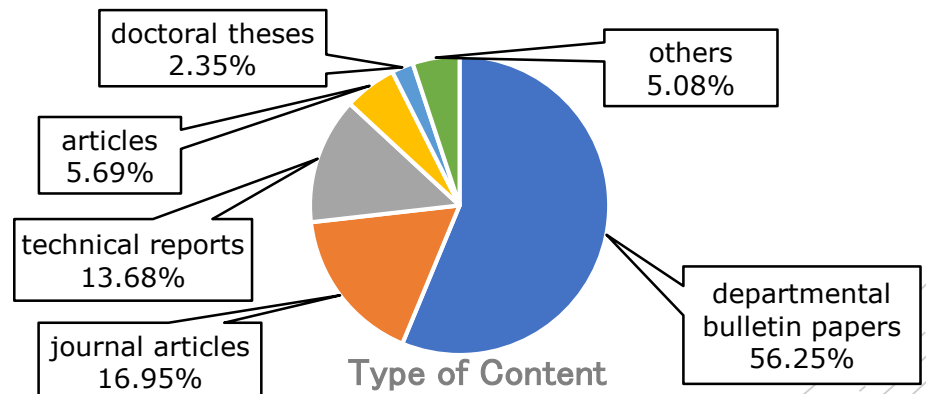
Case study of the checklist

■ Hitotsubashi University

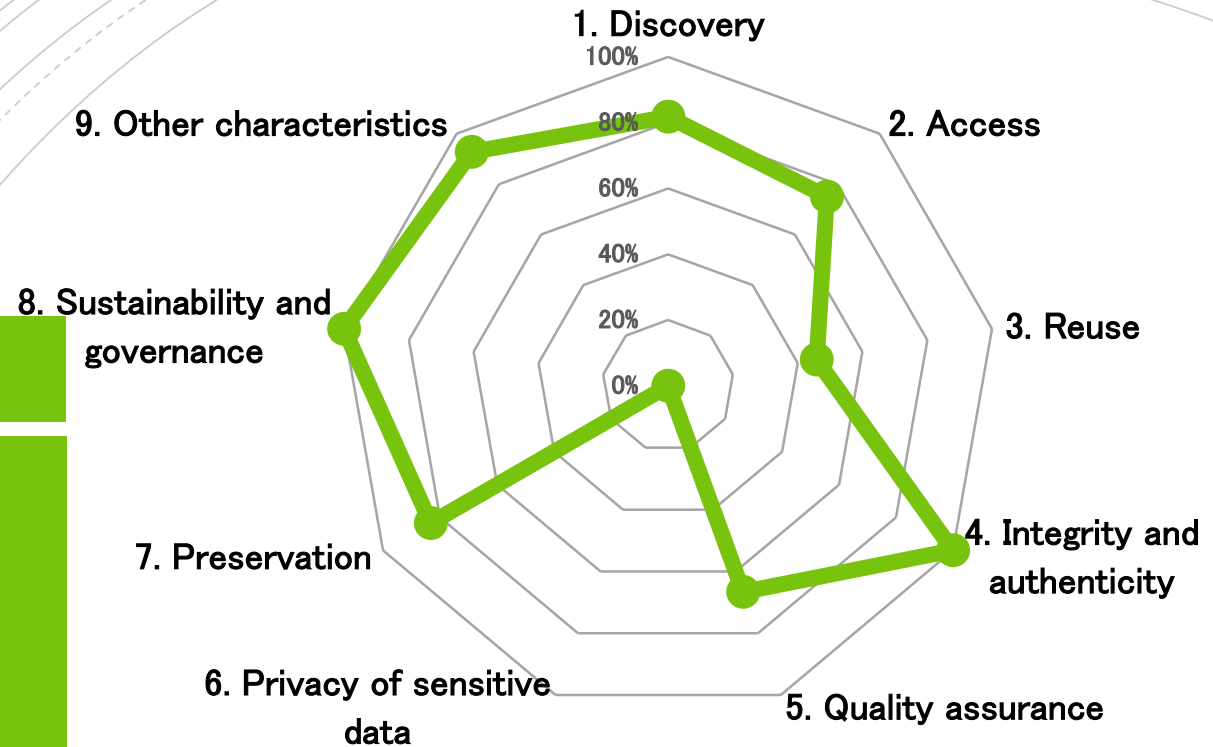
- Established in 1875
- Location : Tokyo, Japan
- Specializing in the social sciences
- One of the top research universities in Japan

■ Institutional Repository (As of Mar. 2021)

- Released in 2007
- 25,000 items in “Research & Education Resources”
- 2 to 3 people are responsible for the repository
(Total number of staff in the library : 49)



Result of evaluation



Areas for improvement

2. This is because we have not yet considered **the accessibility of the site for people with disabilities**, and the method of **publishing large files**.
3. Our repository does not support **the display of CC licenses** and **a list of recommended file formats**, and **text and data mining**.
5. The text and metadata published in our repository do not allow for **external annotations, comments, and reviews, etc.**
6. This answer was given because the research results handled in our repository are essentially open access and we **do not deal with sensitive data in the repository**.

Strengths of the works

- **Framework**

- Global and multidimensional

- **Checklist**

- Adapted to each regional context



- **Global indicators for evaluating repositories objectively**

- **Tool for developing strategies for the future**

60%

of Japanese institutions that have established institutional repositories responded that there are issues in

**maintaining the implementation structure
and
clarifying the position of the repository
project within university**

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We need to evaluate current repository operations in light of international trends and develop strategies for the future.

Feedback to COAR

■ Difficulty in implementation

- There are characteristics that we have not actually implemented, but they are not unnecessary. (e.g. 2.3, 3.1, 5.3, 6.1)

■ Difficulty in interpretation

- 1.1 & 5.1 : Both are supposed to be about the quality of the metadata.

■ Appropriateness of criteria

- It is advisable to clarify how each criterion is to be achieved. (e.g. 2.6)
 - Through policies and operations of the person in charge?
 - By system?

Our activity plan

- **Translation of the framework**
 - Oct. 2020 – Dec. 2020
- **Creation of a checklist**
 - Dec. 2020 – Feb. 2021
- **First verification**
 - Feb. 2021
- **Second verification**
 - Apr. 2021 –
- **Large-scale survey**
 - Planned by the end of this year

Conclusion

- **What is COAR Community Framework?**
 - A global, multidimensional framework to evaluate and improve our current operations
- **What kind of checklist have we created?**
 - Embodiment of the framework for understanding the operations in the context of our country
- **What was the result of using the checklist?**
 - Evaluation using the checklist leads to new discoveries.

