

Past Ten Years of J-STAGE

July 15, 2024

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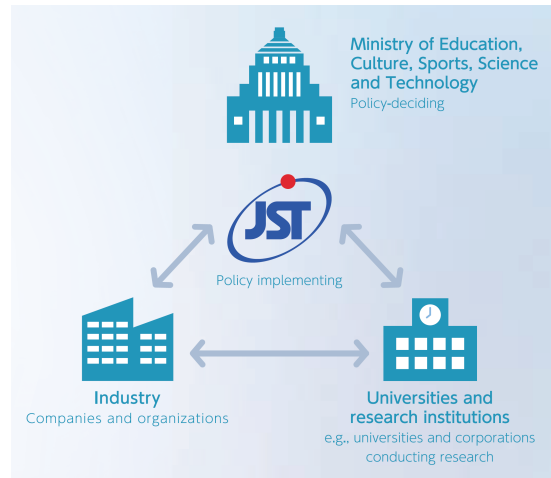


科学技術振興機構

Outline

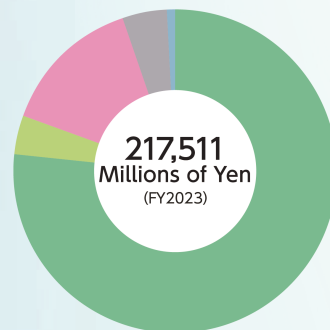
1. Overview of J-STAGE
Facts, Service, and Operational structure
2. J-STAGE Mid- to Long-Term Strategy
2019
3. Recent developments
Journal consultation program, J-STAGE Data,
Jxiv
4. Revised Strategy 2024

About JST



JST is a national research and development Agency that plays a central role in the Science, Technology and Innovation Basic Plan and aims to promote Science and Technology.

Initial Budget



Funding programs 76.8%

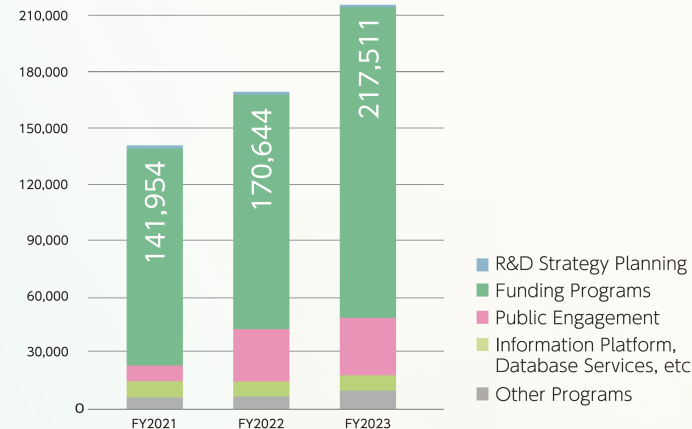
As a network-based research institute, JST promotes research and development leading to innovation and address economic & social issues throughout the implementation of research results and International joint researches.

- Strategic Basic Research
- International Collaborations
- Industry-Academia Collaboration and Technology Transfer

R&D strategy planning 0.6%

Throughout dialogue with stakeholders and data analysis, JST formulates R&D strategies toward the future.

(Millions of yen)



Public engagement 14.2%

Promoting dialogue with various stakeholders toward co-creation of a future society. JST also fosters next generations talents in the fields of S&T as well as human resources who can contribute to S&T innovation.

- Promotion of "Science in/for Society"
- Fostering the Next Generation Human Resources
- Miraikan

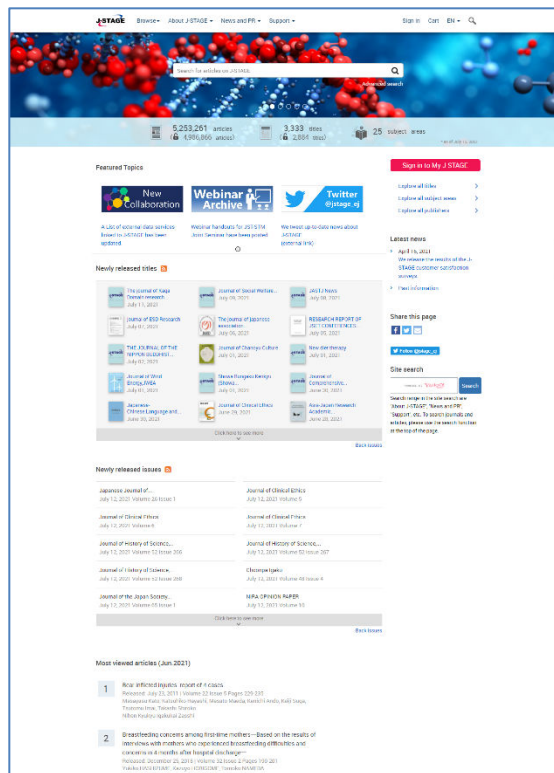
Information platform and database services, etc. 3.8%

Other programs 4.6%

1. Overview of J-STAGE

Facts, Service, and Operational structure

J-STAGE – Journal platform for Japanese academic societies



www.jstage.jst.go.

u J-STAGE is an electric journal platform operated by JST since 1999 for Japanese academic societies

u Purpose

- To promote the electric publication of journals from Japanese academic societies
- To disseminate those publications through the internet and to promote open access

u Content (as of March 31, 2021)

Reached 4,000 journals on May 1!

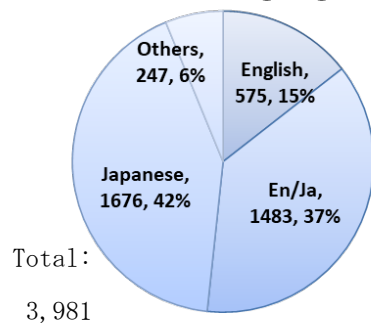
- Titles: 3,981
- Articles: 5, 666,066 (including proceedings)
- Published by 2,398 Academic Societies
- About 90% of journals are free to read
- DOI assigned to all articles

Overview

(As of Mar. 2024)

■ Journals

Journal Languages



Free
Access

3,468
(87.1%)

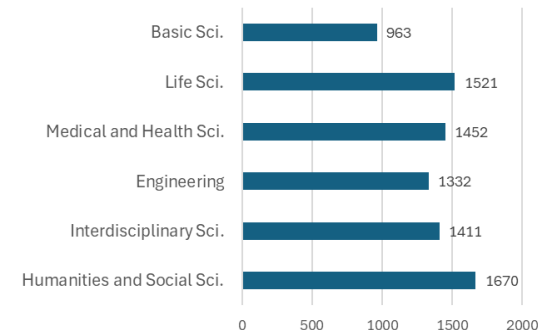
without charge. Not limited to open access
journals with explicit reuse license.

Currently
publishing

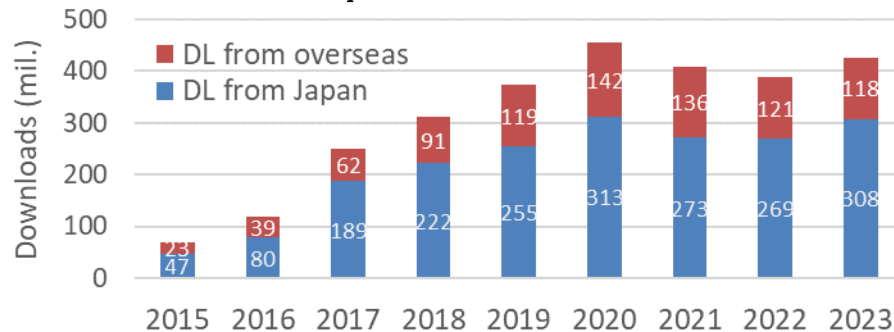
2,502
(62.8%)

Subject Area

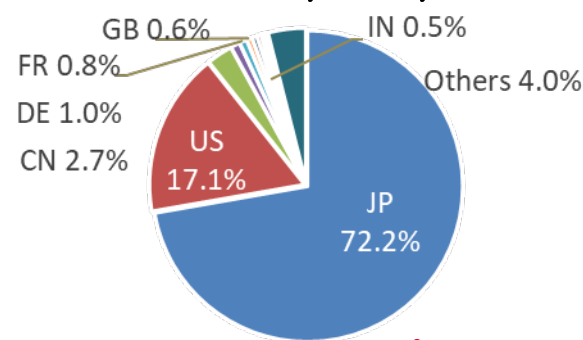
(multiple choices allowed)



■ Downloads of full text pdf

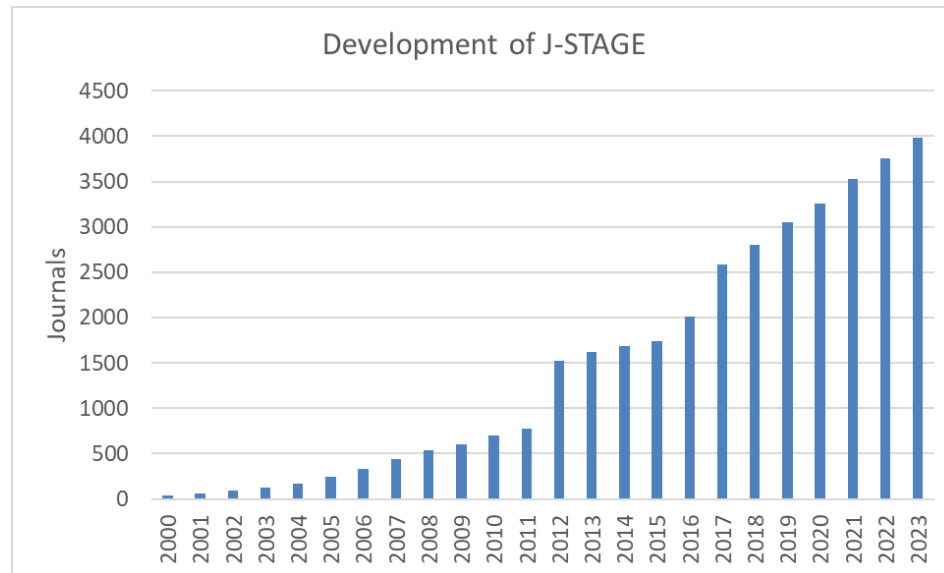
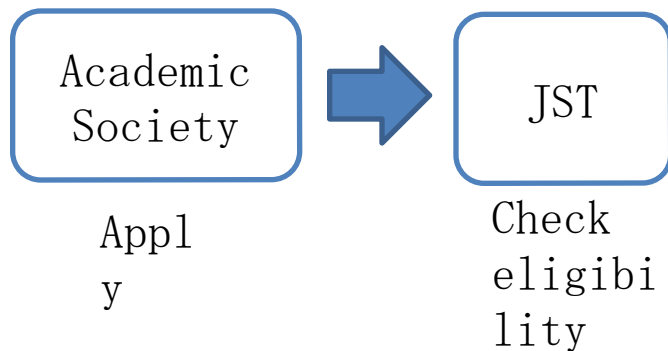


■ Downloads by country



To join J-STAGE

J-STAGE accepts 10-20 journals/month regularly.



Eligibility

Publish (or plan to publish) serials on science and technology (including the humanities and social sciences)

- ï The managing body of the publisher must be located in Japan.
- ï The primary purpose of publishing must not be for profit.
- ï The publisher must be able to produce data for publication.

Structure of operation

Journals



J-STAGE

System

Basic functions

- Metadata/full-text upload

- Publishing

- DOI registration

Optional functions

- Submission tracking (ScholarOne, Editorial Manager)

- Plagiarism Detection

Knowledge

- J-STAGE Seminar

- Journal consultation program

Published by academic societies

- Manage an editorial board
- Receive submissions/ Peer review/ Publish(make pdf/XML and upload to J-STAGE)

- Policymaking on the journal
- Responsible for content

- Cover the cost of publishing, including those above

Developed/operated by JST

- Develop the system: plan new functions and procure

- Operate the system

- Develop linking with external services (ex. discovery services)

- Help societies in improving journals

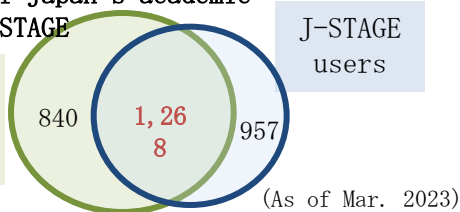
- Policymaking on the pla

- Cover the cost of those above

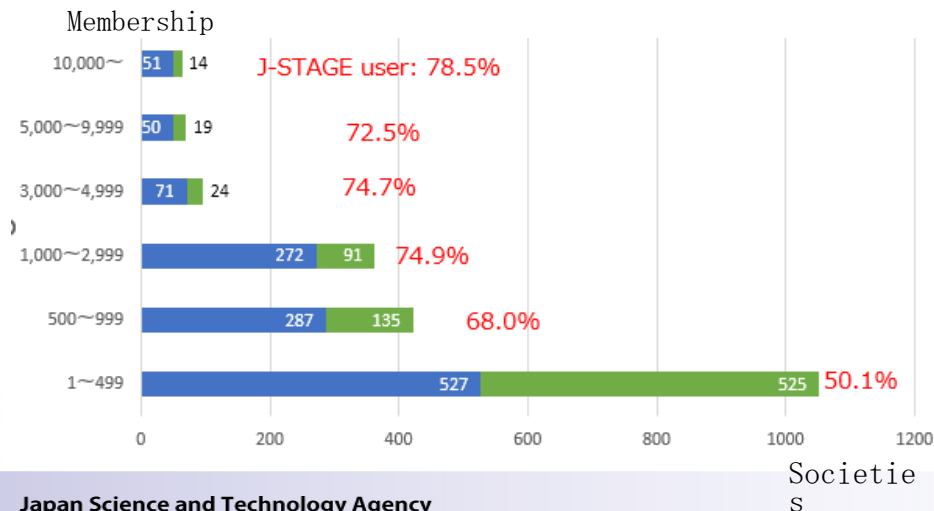
Academic Society Users

More than half of Japan's academic societies use J-STAGE

Societies registered with Science Council of Japan



J-STAGE Usage by society size (As of Mar. 2022)



- Difficulties in running a journal due to diversification

Positioning of the journal

International/domestic

For community/faculty members/PhD students, etc.

Visibility issues

Little known out of the community

- Need for Strengthening the journal publication system

Low rate of XML articles

Only 23% of English-language journals provide full-text XML.

Lack of editorial resources and Heavy burden of journal production

Due to the limited number of full-time journal editors, researchers must work on

- administrating receiving/screening submissions, editing manuscripts, and uploading files to J-STAGE.
- preventing plagiarism and research misconduct.
- implementing new trends in publishing: publishing policies, functions of systems, forms of publication such as preprint, etc.

2. J-STAGE Mid- to Long-Term Strategy 2019

Change in operating policy in 2019

Provide functions and services geared toward different objectives and situations

A significant change in operating policy

Provide
uniform
functions and
services
for all
journals



- ï Provide different functions and services depending on the aims and strategies of each journal
- ï Conduct pilot projects with partnering user organizations to offer necessary and effective services

J-STAGE Mid- to Long-Term Strategy 2019

Basic Stance 1

- ĩ Maintain an e-journal platform and respond to new requirements.
 - ñMeet the Global standards
 - ñProtect content and strengthen security

Basic Stance 2

- ĩ Build up improved cooperation and co-creation with academic societies
to strengthen Japanese journals.
 - ñStrengthen journals in response to different objectives and situations

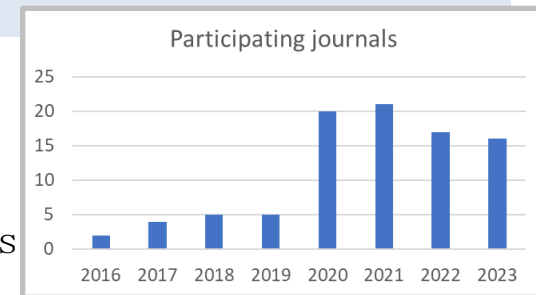
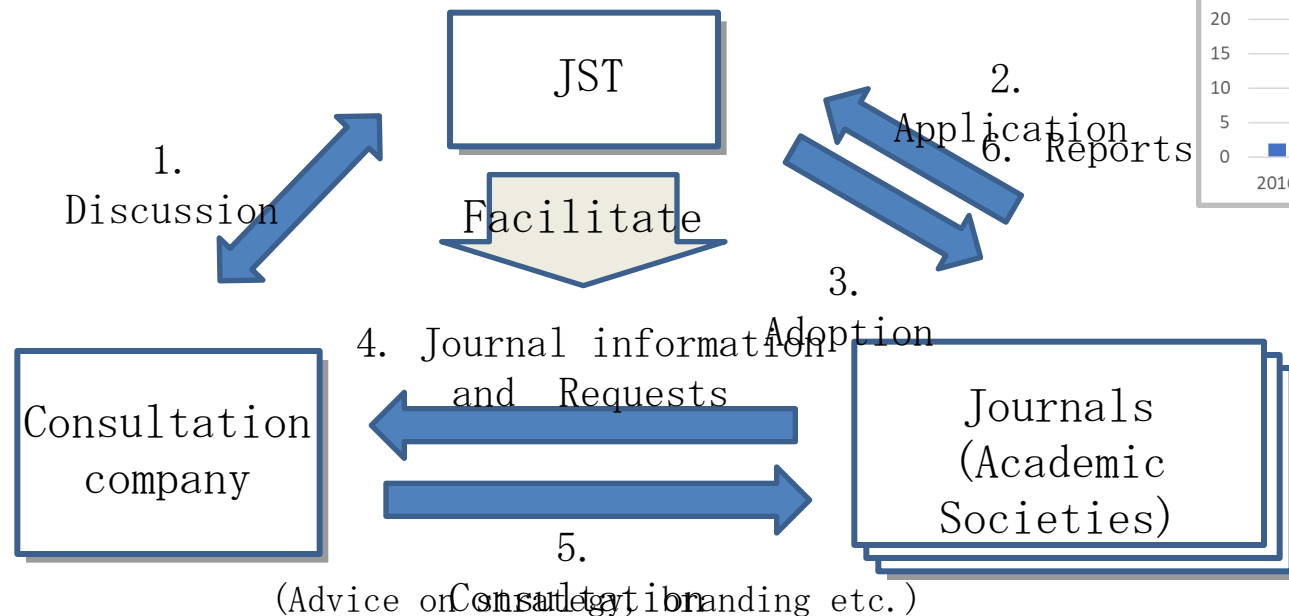
Basic Stance 3

- ĩ Improve J-STAGE services through optimized methods of system development and service provision.
 - ñRespond to the needs of the day

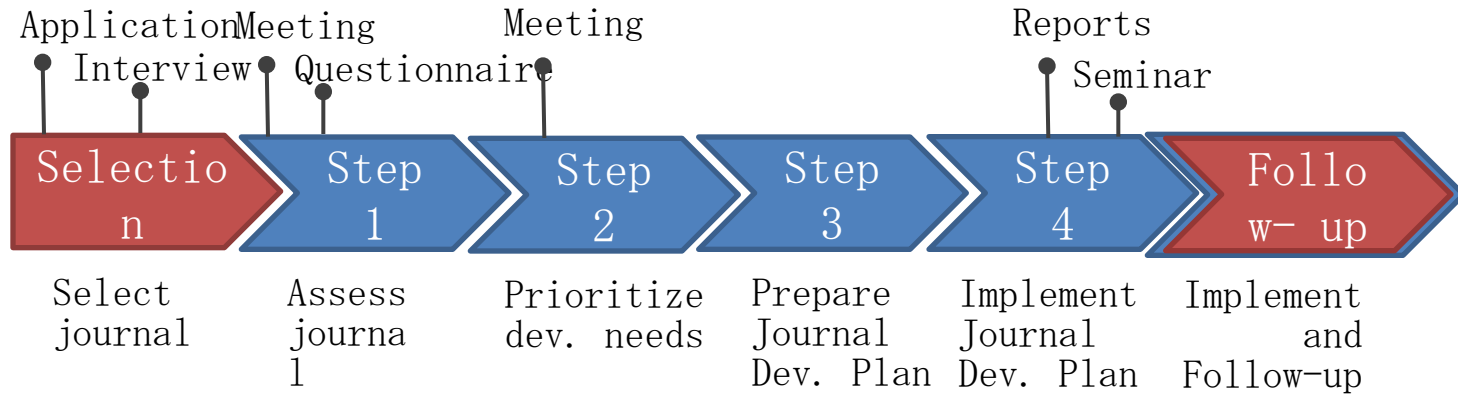
3. Recent developments

Journal consultation program

Consultation program to support the implementation of strategic plans of member journals



Outline and key themes for journal improvement



Key themes

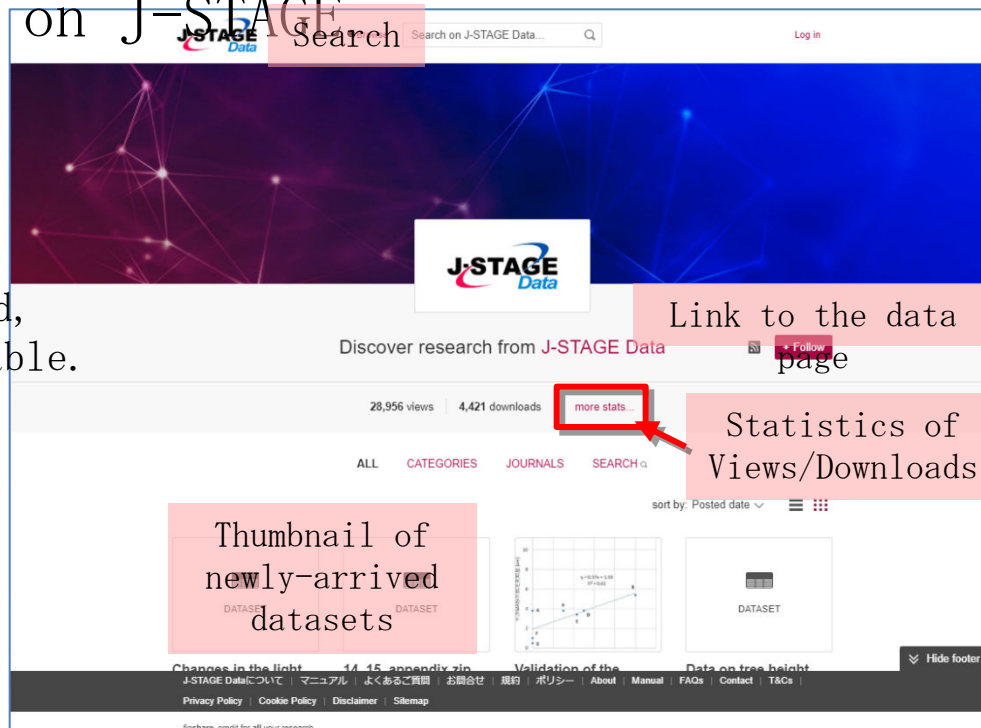
- u Business strategy
 - New business model trial calculation
 - Internationalize editorial board
- u Branding
 - Transition to international OA journal
 - Improve documents
 - Indexed in major databases
 - Acquire good metrics

- Enrich information on the journal website

Data repository to publish research data that underlie articles on J-STAGE

- March 2020 released
- Open Access
- DOIs are registered
- 92 journals have applied,
733 datasets are available.
(March 2024)

- Powered by Figshare
- Indexed by
Google Dataset Search
and Dimensions



Reciprocal Link between an article and data



Data information is available in the metadata page of an article.

- Title
- Data Availability Statement
- Data description

- Metadata such as
- Publication date
 - Data title
 - Authors

Data preview



Link

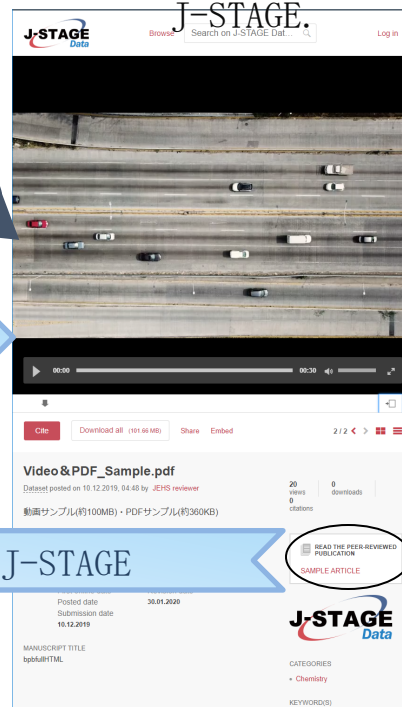
Link to J-STAGE Data

Link to J-STAGE



Data is Linked to the original article on the

J-STAGE.





March 2022
released

[Archives](#) [Areas of Knowledge](#) [Term of Service, Submission Guidelines, Manuscript Preparation](#)

[Announcements](#) [Contact](#)

Caution: Preprints are research manuscripts that have not yet undergone peer review. Any reported results are preliminary and may be subject to change. They should not be considered conclusive or reported in news media as established information. Inclusion of a preprint on Jxiv does not imply that its contents or quality is endorsed by JST.

Latest preprints

[The Impact of Lab Characteristics on Corporate Transformation: A](#)

- Jxiv makes unpublished papers (preprints) openly available before peer review.
- Preprints are in English and Japanese and span all research fields.
- A researchmap or ORCID ID required to submit.

Language

[日本語](#)

[English](#)

u 310 articles published
(158 in Japanese, 152 in English)

u Total Downloads: 102,271

[Journals that allow
published in preprints](#)

(As of March 31, 2024)

Caution: Preprints are research manuscripts that have not yet undergone peer review. Any reported results are preliminary and may be subject to change. They should not be considered conclusive or reported in news media as established information.

Preprint Server Need in Japan

i Need for a place to publish country- and region-specific research

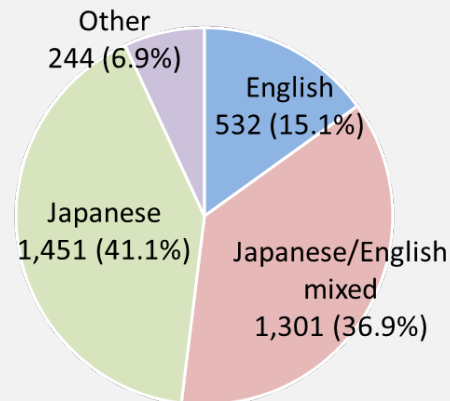
Promote the development of research fields that are relevant to Japan, e.g., medical fields related to COVID-19, environmental and civil engineering fields, earthquakes and other natural disasters, etc.

ii Importance of conducting research activities in one's own language

“the humanities and social sciences fields are where publishing in a regional language would enable more profound understanding and knowledge sharing, given these academic disciplines are often dedicated to the study of philosophy, history, literature, society, law, economy, and so on of a specific culture.” (Press by Univ.Tsukuba and F1000 in 2021)

iii Establishing continuous operation by operating an infrastructure by national

J-STAGE



(As of April 2022)

Japanese learned societies publish these journals on J-STAGE, numbering more than 3,500. Of these, only 15% are English journals.

Preprints on Jxiv by research area

Total preprints: 378 (As of July 2015)
 By language Japanese: 203

English: 175

Mathematics	7
Physics	18
Earth Sciences and Astronomy	20

Chemistry	10
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Engineering in General	7
Nanosciences and Materials Sciences	7
Architecture and Civil Engineering	11
Mechanical Engineering	9
Electrical and Electronic Engineering	1

Information Sciences	50
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Biology, Life Sciences and Basic Medicine	66
Agriculture and Food Sciences	14
Environmental Sciences	6

Pharmaceutical Sciences	1
General Medicine, Social Medicine, and Nursing Sciences	23
Clinical Medicine	3
Dentistry	3

Philosophy, Religion	2
Literature, Language & Linguistics and Art	10
Anthropology, History and Geography	4
Law, Political Sciences	7
Economics, Business & Management	56
Sociology	7
Psychology, Education	20

Interdisciplinary Sciences	16
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4. Revised Strategy 2024

J-STAGE Mid- to Long-Term Strategy 2024

<https://www.jstage.jst.go.jp/static/pages/JstageStrategy/-char/en>

Basic Stance 1 Maintain an e-journal platform and respond to new requirements.

Basic Stance 2 Build up improved cooperation and co-creation with academic societies to strengthen Japanese journals.

Basic Stance 3 Improve J-STAGE services through optimized methods of system development and service provision.

Ba
E As electronic, online, and open scholarly communication progresses, J-STAGE needs to clearly express its value and become a firm presence in the international environment of scholarly communication. This will strengthen the competitiveness of the journals that publish on J-STAGE and increase the value of research that has resulted in articles published on J-STAGE. For this purpose, we aim to increase the machine readability of article information by conforming to international standards, to improve discoverability by enhancing metadata, and to improve the quality of published information, and then to increase the academic influence of the journal as a whole. To achieve these goals, we will strengthen cooperation with academic societies and other related parties, and contribute to the promotion of open science by making the value of journals visible through the efforts (tentative translation) of journal publishing organizations.

Direction for expansion of policy measures and initiatives

1) Development and maintenance of basic functions of e-journals in Japan

- Meet the global standards expected of an e-journal platform: XML-ization of full-text, metadata enrichment
- Protect its content and strengthen security

2) Strengthening of journals in response to different objectives and situations

- Establish a mechanism to strengthen cooperation with academic societies
and form progressive solidarity with societies and other stakeholders.
- Provision of functions or services geared toward specific objectives or situations

Red texts added in 2024
strategy

3) Response to the needs of the day

- Expand the research workflow and content covered by J-STAGE

New national open access policy

Basic Policy for Realization of Immediate Open Access to Academic Papers

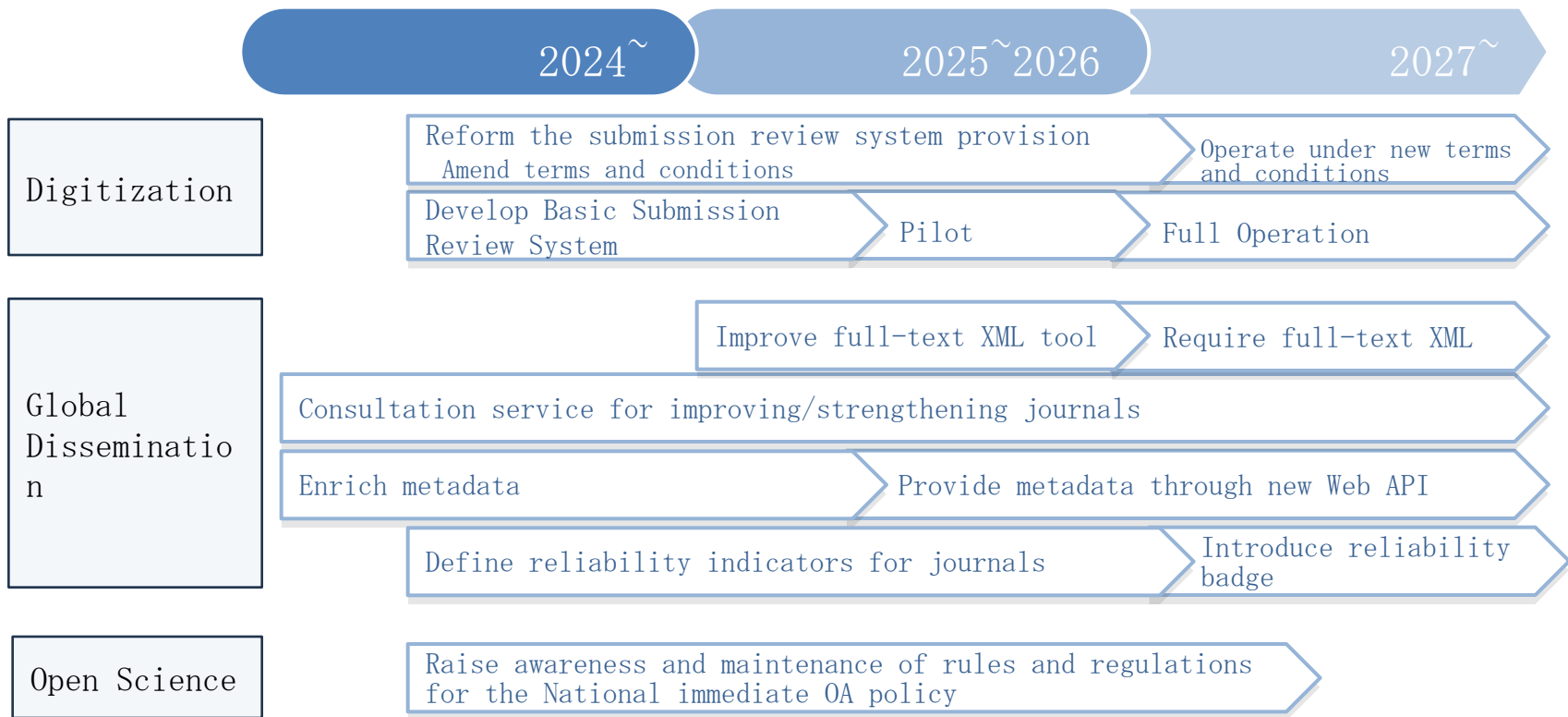
February 16, 2024

Council for Science, Technology and Innovation, Cabinet Office, Government of Japan

1. Ensure immediate open access to publicly funded academic papers.
2. Negotiate with global scholarly publishers/platforms.
3. Post academic papers and evidence data in information infrastructures such as institutional repositories.
4. Develop and enhance platforms for disseminating research results.
5. Promote international cooperation.
6. Develop implementation structure, etc.

(tentative
translation)

Roadmap for the strategy implementation



Thank you for your attention.



<https://www.jstage.jst.go.jp/>