



"Information is power,  
but like all power,  
there are those who  
want to keep it for  
themselves."

Aaron Swartz 1986-2013



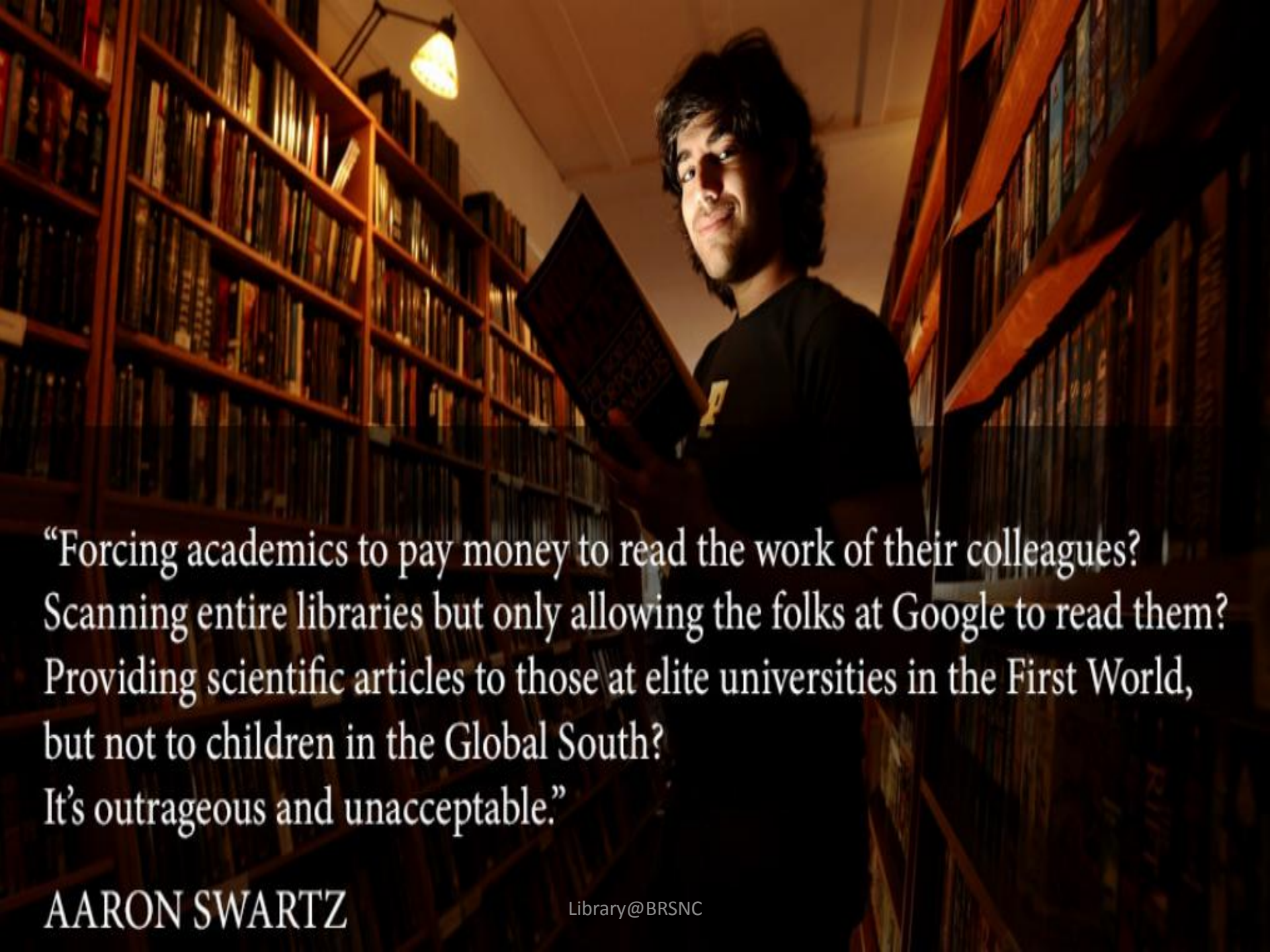


# Open Access Information Sources for Scholarly Communication

**Joydip Chandra**  
*Librarian*

**Barrackpore Rastraguru Surendranath College**  
[joydip\[at\] brsnc \[dot\] org](mailto:joydip[at]brsnc[dot]org)



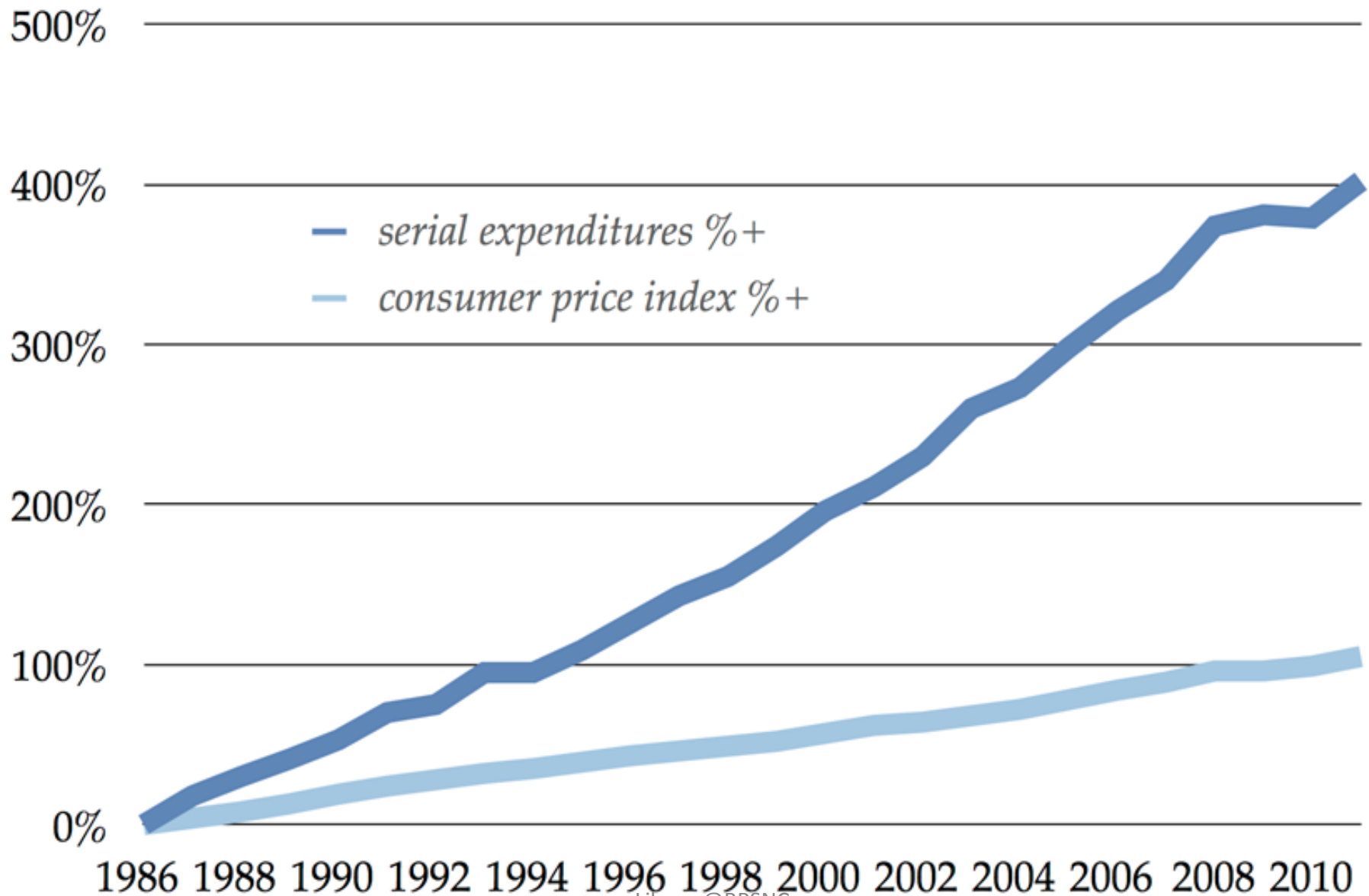


“Forcing academics to pay money to read the work of their colleagues?  
Scanning entire libraries but only allowing the folks at Google to read them?  
Providing scientific articles to those at elite universities in the First World,  
but not to children in the Global South?  
It’s outrageous and unacceptable.”

AARON SWARTZ

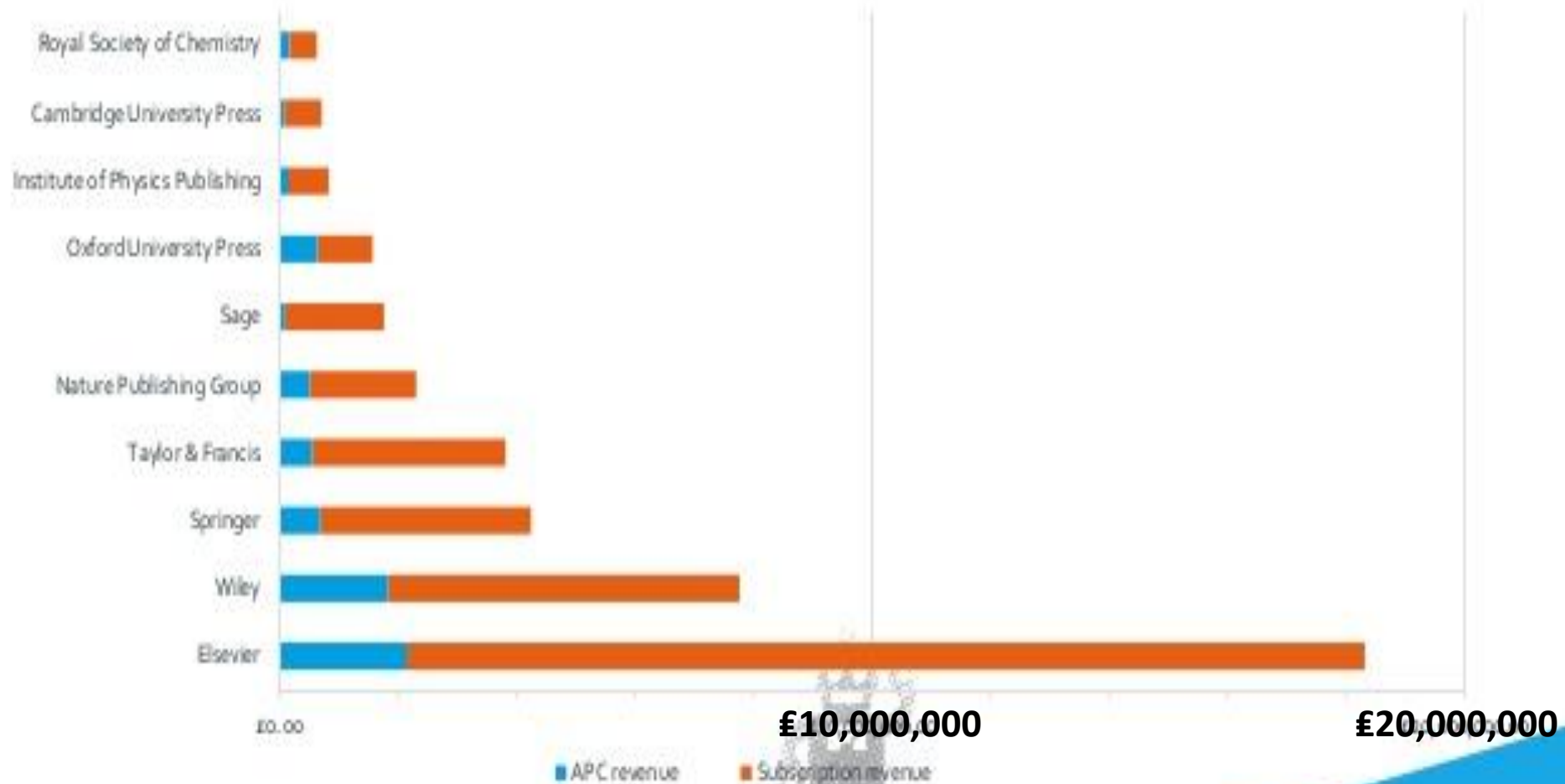
Library@BRSNC

# Serials expenditures percentage increase over 1986



<i>operating profit</i>	<i>company</i>	<i>industry</i>
7%	<u>Woolworths</u>	supermarkets, pokies
12%	BMW	automobiles
23%	Rio <u>Tinto</u>	mining
35%	Apple	premium computing
<b>34%</b>	<b>Springer</b>	<b>scholarly publishing</b>
<b>36%</b>	<b>Elsevier</b>	<b>scholarly publishing</b>
<b>40%</b>	<b>Wiley</b> <small>Library@BRSNC</small>	<b>scholarly publishing</b>

## » Elsevier receives the highest amount of APCs and subscriptions

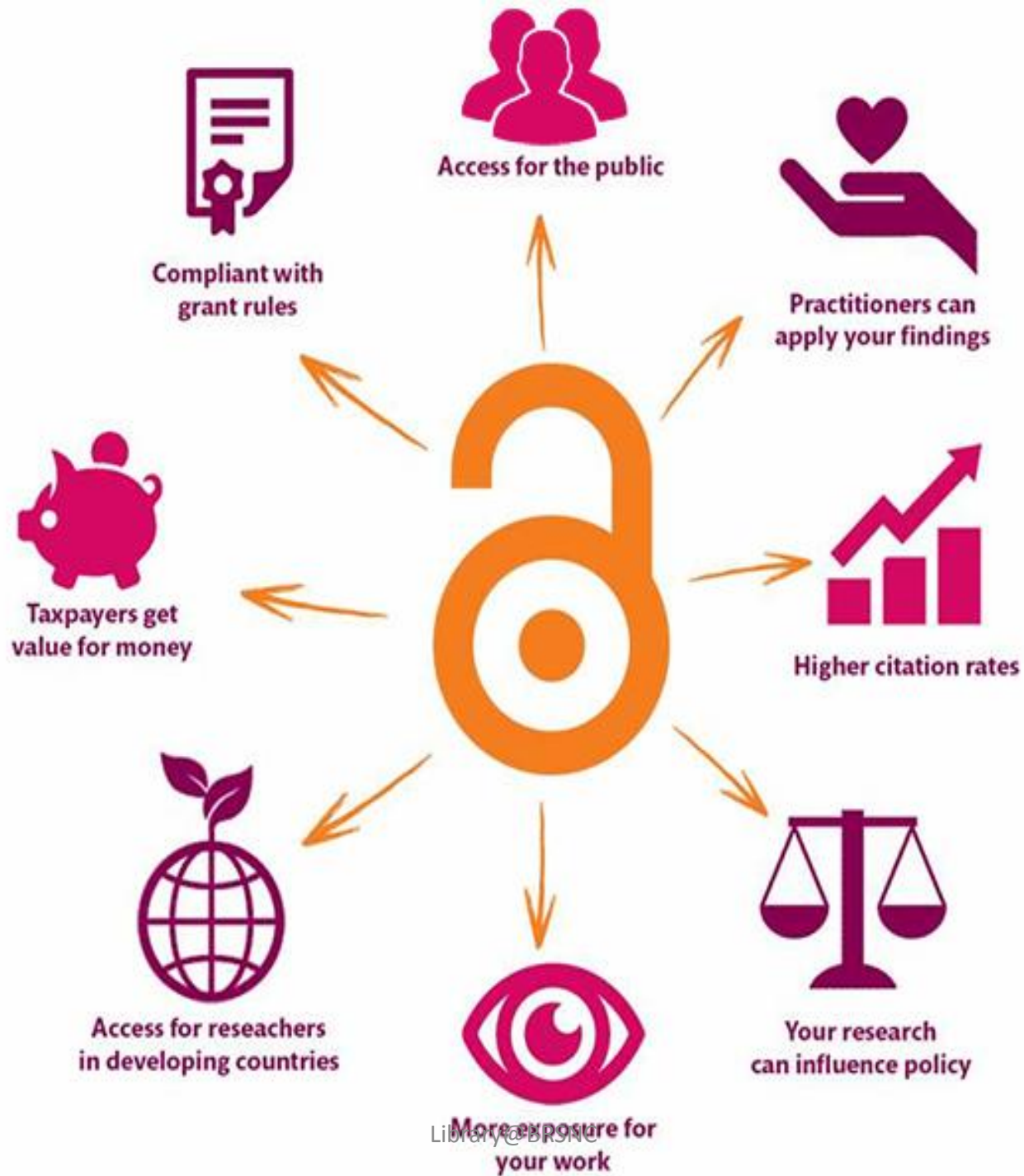


Even Harvard cannot afford to  
pay for all the subscriptions  
they need

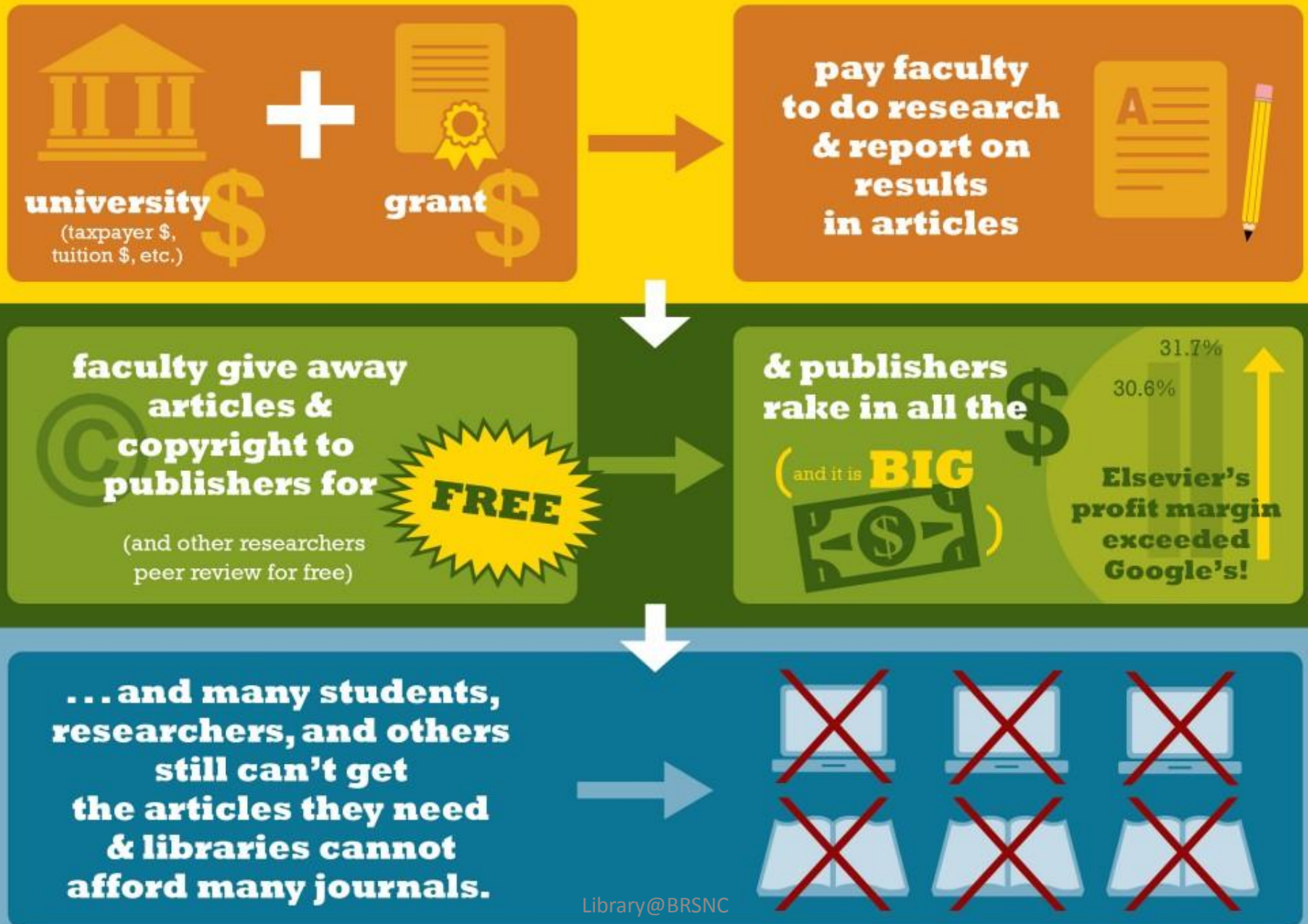


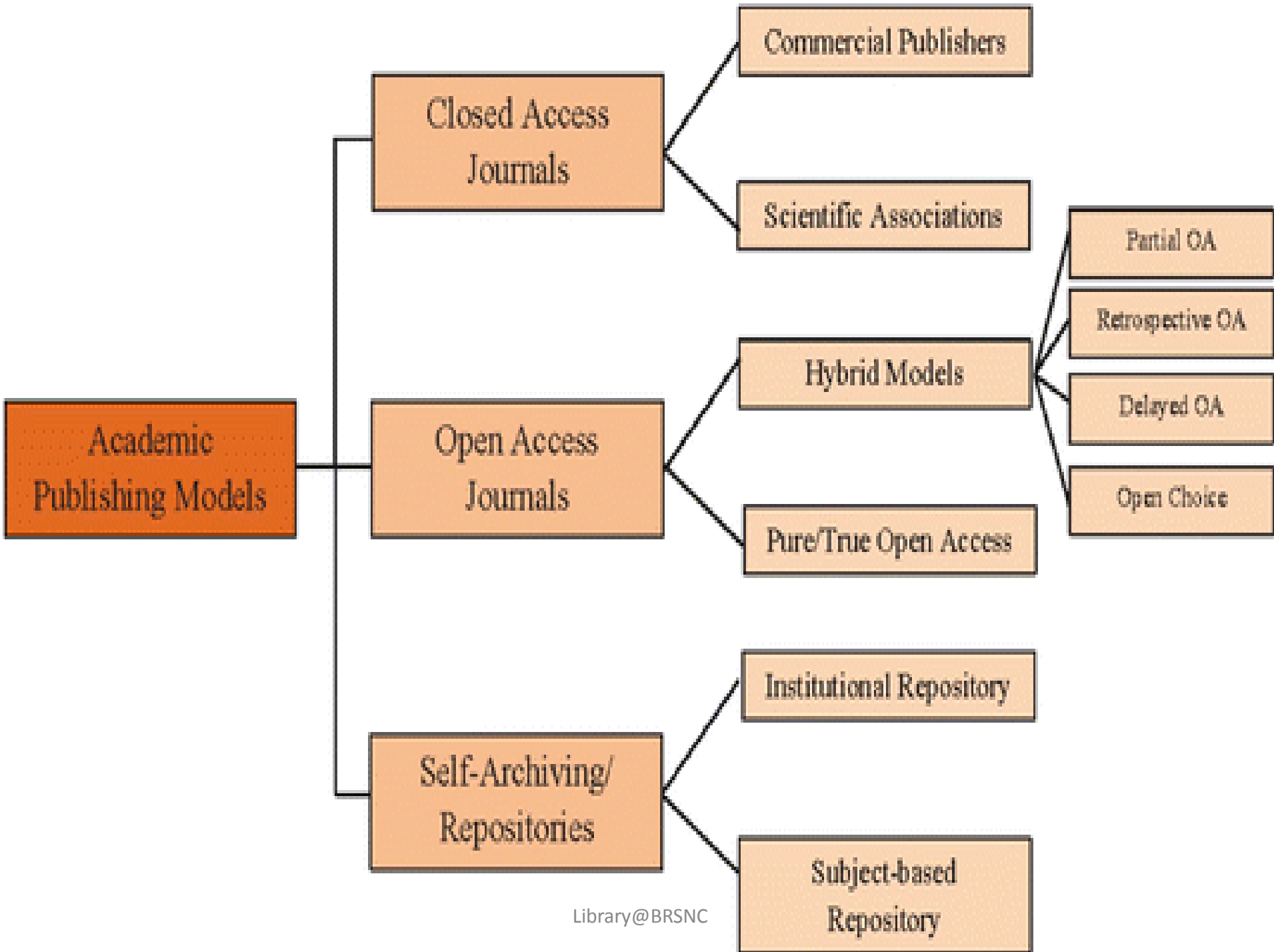






# WHAT IS THE PROBLEM?







Open Access Journals through its novel initiative is committed to bring forth genuine and reliable scientific contributions to the relevant community.

The Open Access Journals was founded with a mission to develop a reliable platform and to provide unrestricted access to scientific literature for rapid dissemination of recent updates in various disciplines of science and technology. Readers can have access with no cost and avail the facility to enrich their scientific understanding in the relevant topics.

Research scholars, faculty members and academicians of various disciplines are invited to submit their novel contributions in the form of original manuscripts which will undergo quality check before being approved for publication. Publisher will promote the published articles across world-wide web through different social media following the open access regulations.

Reliable source for scientific information, resources and guidance has been the need of the hours for the scientific community which is been fulfilled by the publishing sector. Open Access publishing model is quenching such requirement moving a step ahead.

This platform with a sole aim of providing the most trusted scientifically authentic information is launched to support the latest logical scientific initiatives. The motto of the Open Access Journals is to promote flawless, unbiased research information and data, by maintaining at most transparency and following the already laid international publishing standard.

Library@BRSNC

## Browse Journals

- ▶ Diabetes Management
- ▶ Interventional Cardiology
- ▶ Clinical Practice (Therapy)
- ▶ Clinical Investigation
- ▶ International Journal of Clinical Rheumatology
- ▶ Imaging in Medicine
- ▶ Journal of Experimental Stroke & Translational Medicine
- ▶ Pharmaceutical Bioprocessing
- ▶ International Journal of Clinical Skills

See More



## Browse Subjects

Journals and their articles are categorised using the Library of Congress Classification. You can either type a keyword into the box below or click the arrows in the tree to expand and collapse subjects. Clicking on a subject will reveal the number of available records in the box on the right.

Select a subject from the tree.

- ... Agriculture
- ... Auxiliary sciences of history
- ... Bibliography. Library science. Information resources
- ... Education
- ... Fine Arts
- ... General Works
- ... Geography. Anthropology. Recreation
- ... History (General) and history of Europe
- ... History America
- ... Language and Literature
- ... Law
- ... Medicine
- ... Military Science
- ... Music and books on Music
- ... Naval Science

9,916 Journals  
7,169 searchable at Article level  
123 Countries  
2,576,331 Articles

### FAQs

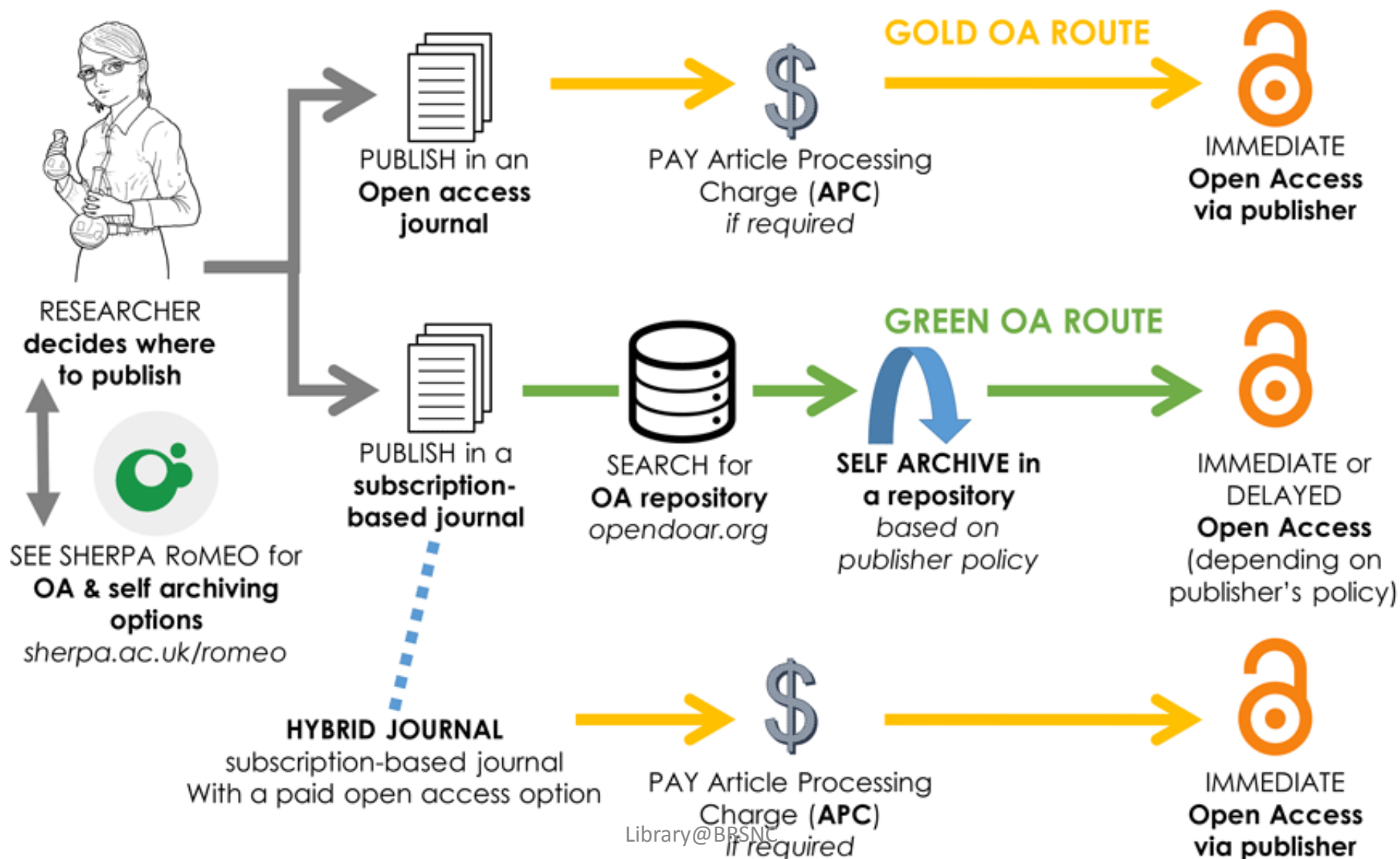
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# Open Access Publishing



# Two ways to provide open access: Gold and Green

**Gold:** Authors publish in OA journals that provide free, immediate access at the time of publication to the articles via publisher web sites. Often, but not always, they may carry author fees, known as Article Processing Charges to be paid to the publisher to make articles Open Access. All **Public Library of Science (PLOS)** journals use this model

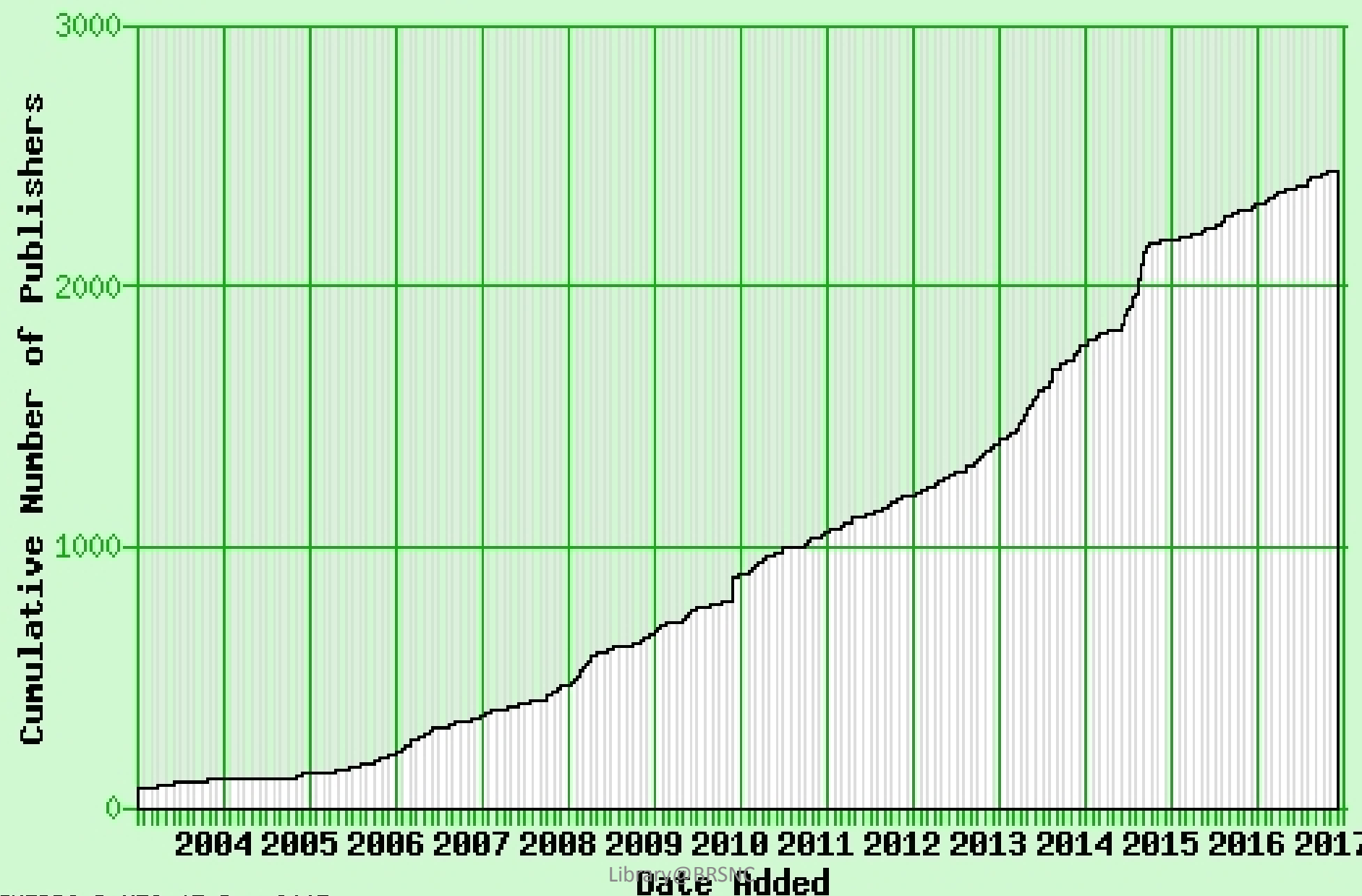
**Green:** Authors publish in a journal, and then make their version of the article, after peer review, with revisions having been made or the publisher's peer reviewed final draft version freely accessible online by self - archiving or depositing the article in a repository (either institutional repository such as **UQ eSpace** or disciplinary) upon acceptance for publication



# SHERPA Services

- RoMEO
  - Publisher copyright policies & self-archiving
  - <http://www.sherpa.ac.uk/romeo/>
- JULIET
  - Research funders' open access policies
  - <http://www.sherpa.ac.uk/juliet/>
- *OpenDOAR*
  - Directory of Open Access Repositories
  - <http://www.opendoar.org/>

Growth of the SHERPA/RoMEO Database  
excluding provisional policies

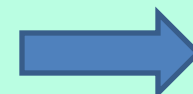


RoMEO colour	Archiving policy	Publishers	%
<a href="#">green</a>	Can archive pre-print and post-print	1011	41
<a href="#">blue</a>	Can archive post-print (ie final draft post-refereeing)	795	33
<a href="#">yellow</a>	Can archive pre-print (ie pre-refereeing)	158	6
<a href="#">white</a>	Archiving not formally supported	481	20

Summary: **80%** of publishers on this list formally **allow** some form of self-archiving.

SHERPA/RoMEO Colours, excluding provisional policies





Journal: [Journal of Molecular Biology](#) (ISSN: 0022-2836, ESSN: 1089-8638)

RoMEO: This is a [RoMEO green](#) journal

Paid OA: A paid open access option is **available** for this journal.

Author's Pre-print: author **can** archive pre-print (ie pre-refereeing)

Author's Post-print: author **can** archive post-print (ie final draft post-refereeing)

Publisher's Version/PDF: author **cannot** archive publisher's version/PDF

Journal: [Current Biology](#) (ISSN: 0960-9822, ESSN: 1879-0445)

RoMEO: This is a [RoMEO yellow](#) journal

Paid OA: A paid open access option is **available** for this journal.

Author's Pre-print: author **can** archive pre-print (ie pre-refereeing)

Author's Post-print: **subject to Restrictions below**, author **can** archive post-print (ie final draft post-refereeing)

Restrictions:

- 12 months embargo

Publisher's Version/PDF: author **cannot** archive publisher's version/PDF

Publisher: [Biological Society of Washington](#), United States

Journals: [1 journal](#)

RoMEO: This is a [RoMEO white](#) publisher

Copyright: Not available online

Updated: 01-Aug-2014

**These are the publisher's default policies. Individual journals may have special permissions, especially if they i**  
**journal title or ISSN search to check**

Author's Pre-print: author **cannot** archive pre-print (ie pre-refereeing)

Author's Post-print: author **cannot** archive post-print (ie final draft post-refereeing)

Publisher's Version/PDF: author **cannot** archive publisher's version/PDF

General Conditions:

- Publisher's version/PDF cannot be used
- Author's may deposit the abstract with a link to the published article on the journal website

Mandated OA: *(Awaiting information)*

Paid Open Access: [Open Access](#)

Notes: [Library@BRSNC](#)  
• Publisher last contacted on 16/06/2014

RoMEO Publisher ID: 2029 - [Suggest an update for this record](#)



Search or Browse for Repositories

Recent Additions RSS1 Feed

Any Subject Area

Multidisciplinary (2127)

Science General (241)

Agriculture, Food and Veterinary (151)

Biology and Biochemistry (157)

Chemistry and Chemical Technology (101)

Earth and Planetary Sciences (90)

Ecology and Environment (154)

Mathematics and Statistics (124)

Physics and Astronomy (107)

Health and Medicine (328)

Technology General (240)

Architecture (62)

Civil Engineering (45)

Computers and IT (172)

Electrical and Electronic Engineering (54)

Mechanical Engineering and Materials (69)

Arts and Humanities General (171)

Fine and Performing Arts (104)

Geography and Regional Studies (186)

History and Archaeology (249)

Any Content Type

Any Software

Any Repository Type

Language

Search

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Repository Name

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repositories listed in OpenDOAR, please see our [Content Search](#) page.

Results 1 - 20 of 34

Page: << Previous 1 2 3 4 5 6 7 8 9 10 Next >>

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Org:  
De

[tionale und interdisziplinäre Rechtsforschung](#), Germany  
k) is a disciplinary repository of the Scientific Information Service for International and Interdisciplinary  
in State Library which contains specialized information for international and interdisciplinary legal

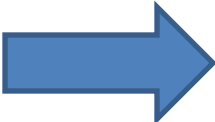
[/OAIDataProvider](#)

**Subjects:** Law and Politics

**Content:** Articles; Theses

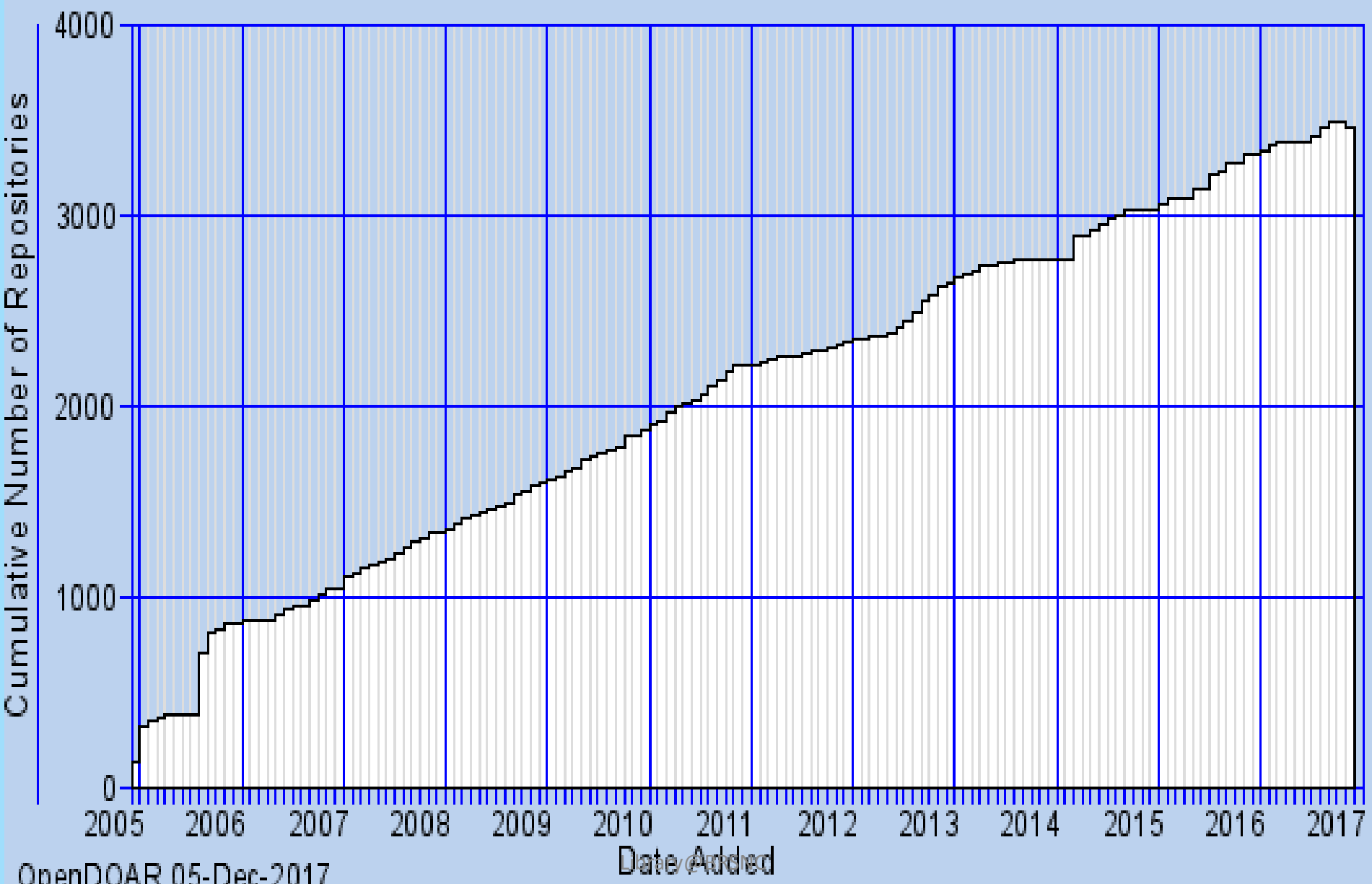
**Languages:** German

**Policies:** Metadata re-use policy explicitly undefined; Full data item policies explicitly undefined; Content policies defined;  
Submission policies defined; Preservation policies explicitly undefined

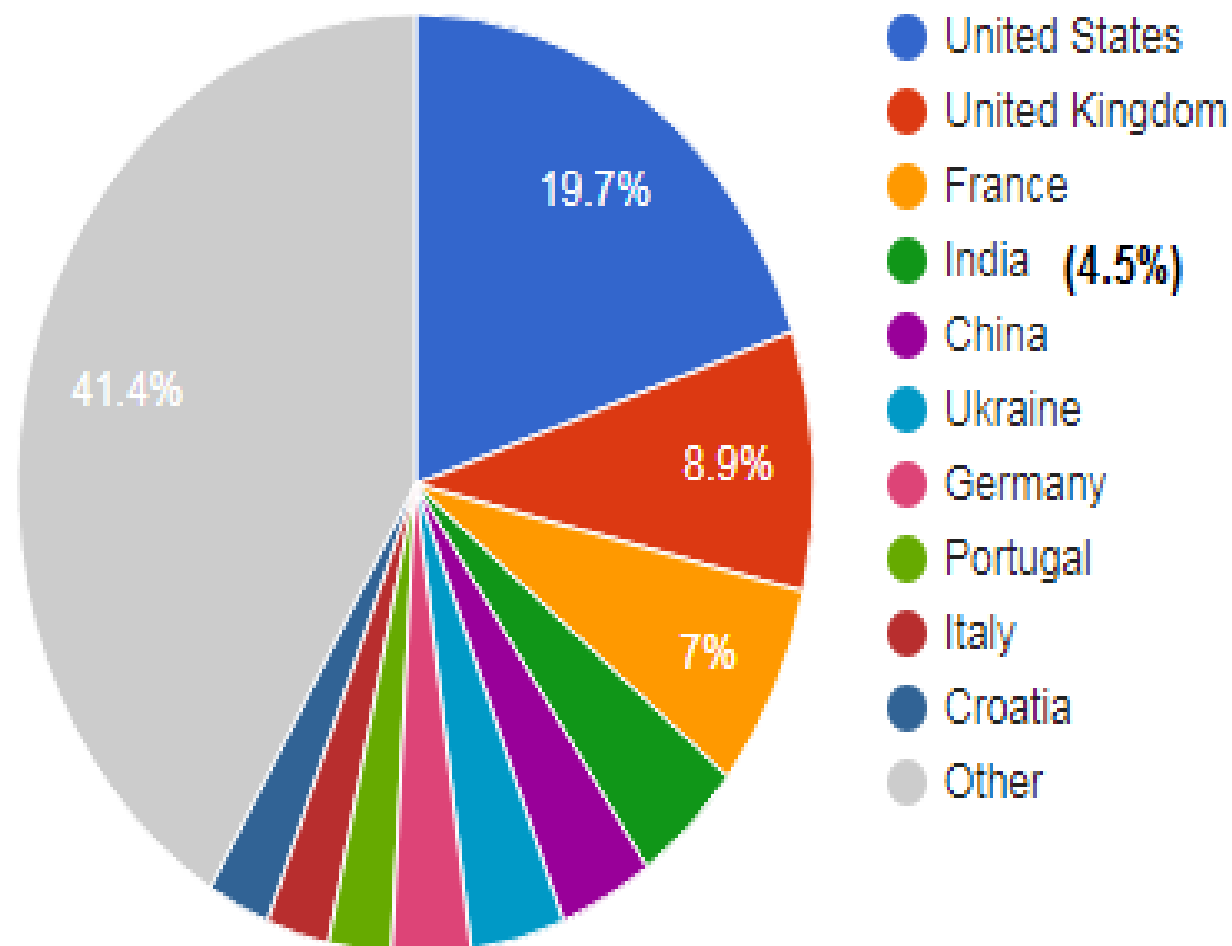


# Growth of the OpenDOAR Database

## Worldwide



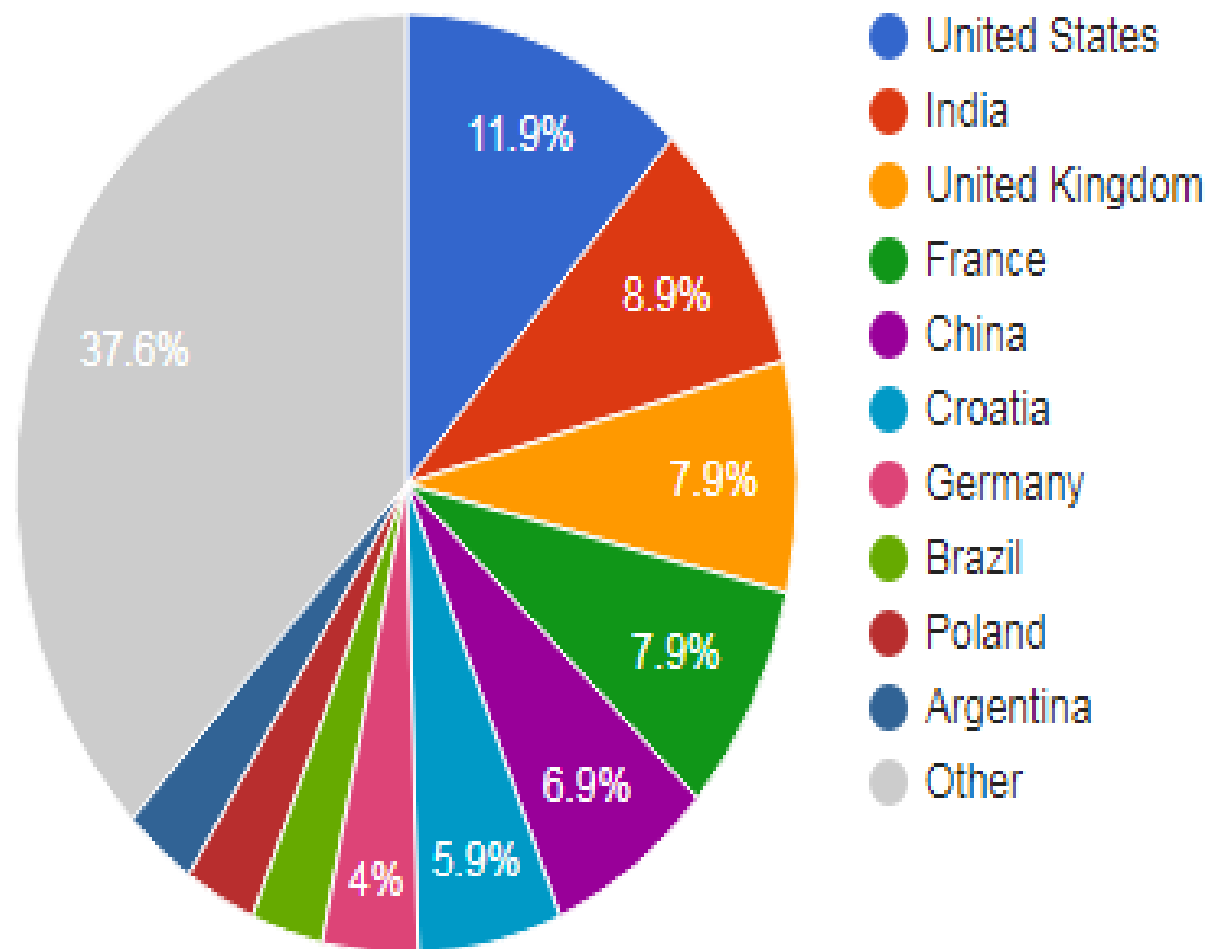
## Proportion of Repositories by Country - Worldwide, Biology and Biochemistry



Total = 157 repositories

[OpenDOAR](#) 05 Dec-2017  
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## Proportion of Repositories by Country - Worldwide, Chemistry and Chemical Technology

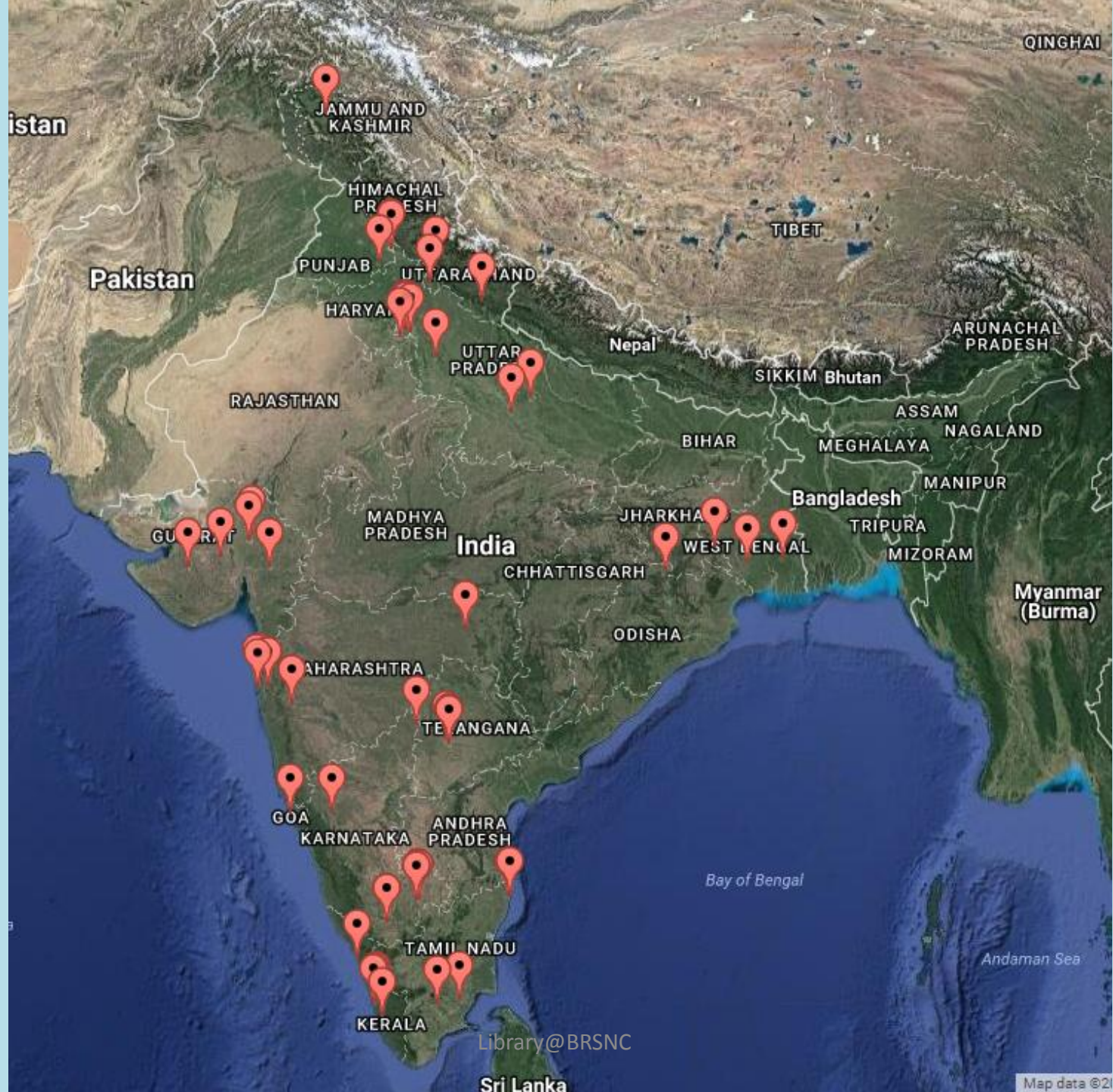


Total = 101 repositories

OpenDOAR @ BGSN

05 Dec-2017





Open access to 1,336,664 e-prints in Physics, Mathematics, Computer Science, Quantitative Biology, Quantitative Finance, Statistics, Electrical Engineering and Systems Science, and Economics

Subject search and browse:

31 Oct 2017: [2017 holiday schedule announced](#)

See cumulative "What's New" pages. Read [robots beware](#) before attempting any automated download

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- [High Energy Physics - Theory](#) ([hep-th new](#), [recent](#), [find](#))
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- [Nonlinear Sciences](#) ([nlin new](#), [recent](#), [find](#))  
[includes:](#) [Adaptation and Self-Organizing Systems](#); [Cellular Automata and Lattice Gases](#); [Chaotic Dynamics](#); [Exactly Solvable and Integrable Systems](#); [Pattern Formation and Solitons](#)
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## Subject Areas

### All Articles

Animal Behavior and Cognition

Biochemistry

Bioengineering

Bioinformatics

Biophysics

Cancer Biology

Cell Biology

Clinical Trials

Developmental Biology

Ecology

Epidemiology

Evolutionary Biology

Genetics

Genomics

Immunology

Microbiology

Molecular Biology

Neuroscience

Paleontology

Pathology

Pharmacology and Toxicology

Physiology

Plant Biology

Scientific Communication and  
Education

Synthetic Biology

Systems Biology

Zoology

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# SCOPE

bioRxiv accepts preprints of articles covering all aspects of research in the life sciences. When posting an article, the author assigns it to one of the following categories:

- Animal Behavior and Cognition
- Biochemistry
- Bioengineering
- Bioinformatics
- Biophysics
- Cancer Biology
- Cell Biology
- Clinical Trials
- Developmental Biology
- Ecology
- Epidemiology
- Evolutionary Biology
- Genetics
- Genomics
- Immunology
- Microbiology
- Molecular Biology
- Neuroscience
- Paleontology
- Pathology
- Pharmacology and Toxicology
- Physiology
- Plant Biology
- Scientific Communication and Education
- Synthetic Biology
- Systems Biology
- Zoology





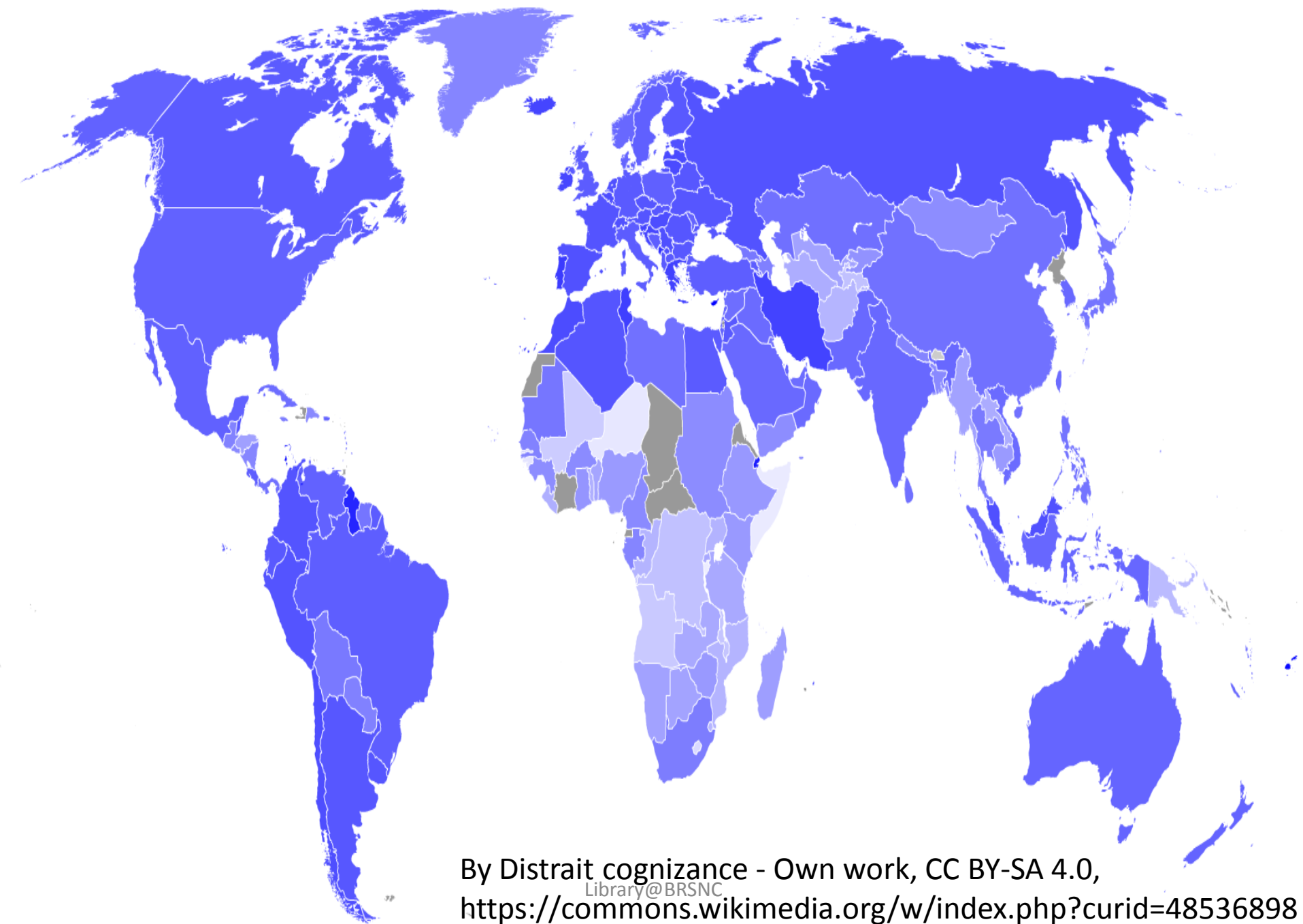
# SCI-HUB

...to remove all barriers in the way of science



"If you analyze the situation with scientific publications, the real parasites are scientific publishers, and Sci-Hub, on the contrary, fights for equal access to scientific information"

Library@BRSNC

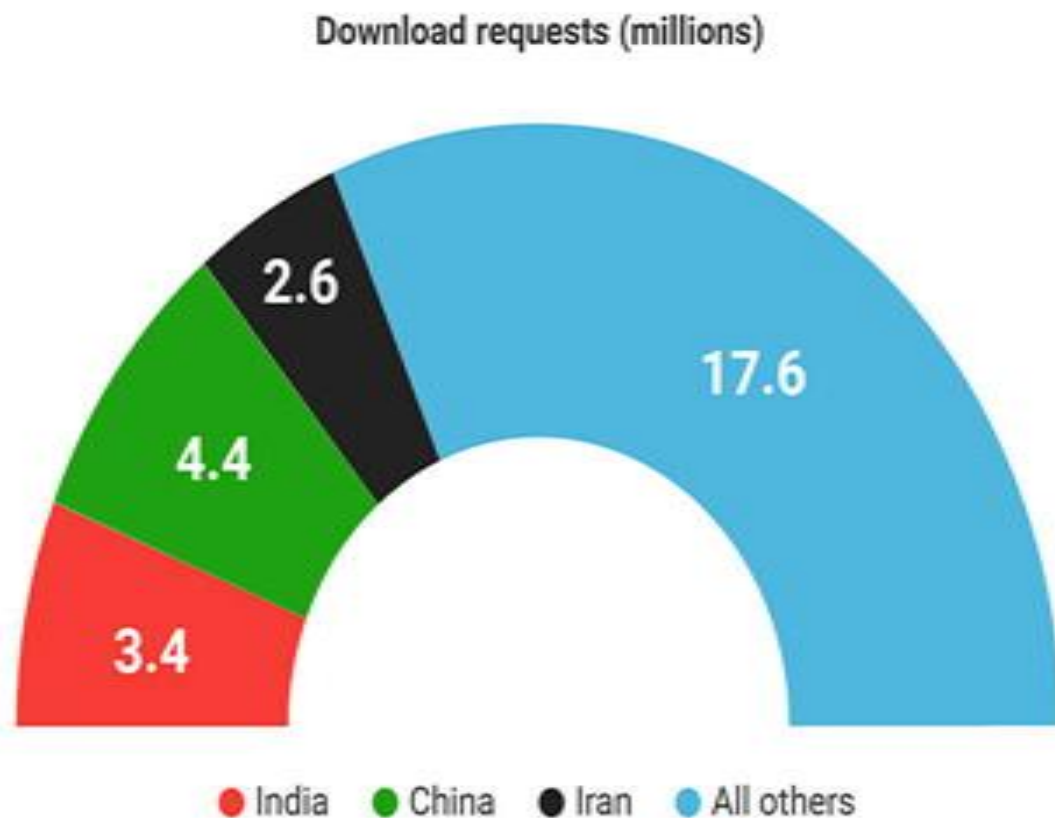


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# SCI-HUB JOURNAL DOWNLOAD REQUESTS (BY COUNTRY)

Between September 2015 and February 2016, almost 28 million download requests were serviced by Sci-Hub for journal articles illegally downloaded.



Data Source: <http://www.sciencemag.org/news/2016/04/alexandra-elbakyan-founded-sci-hub-thwart-journal-paywalls>



Winner of the IFLA/Brill  
Open Access award 2015



English ▼

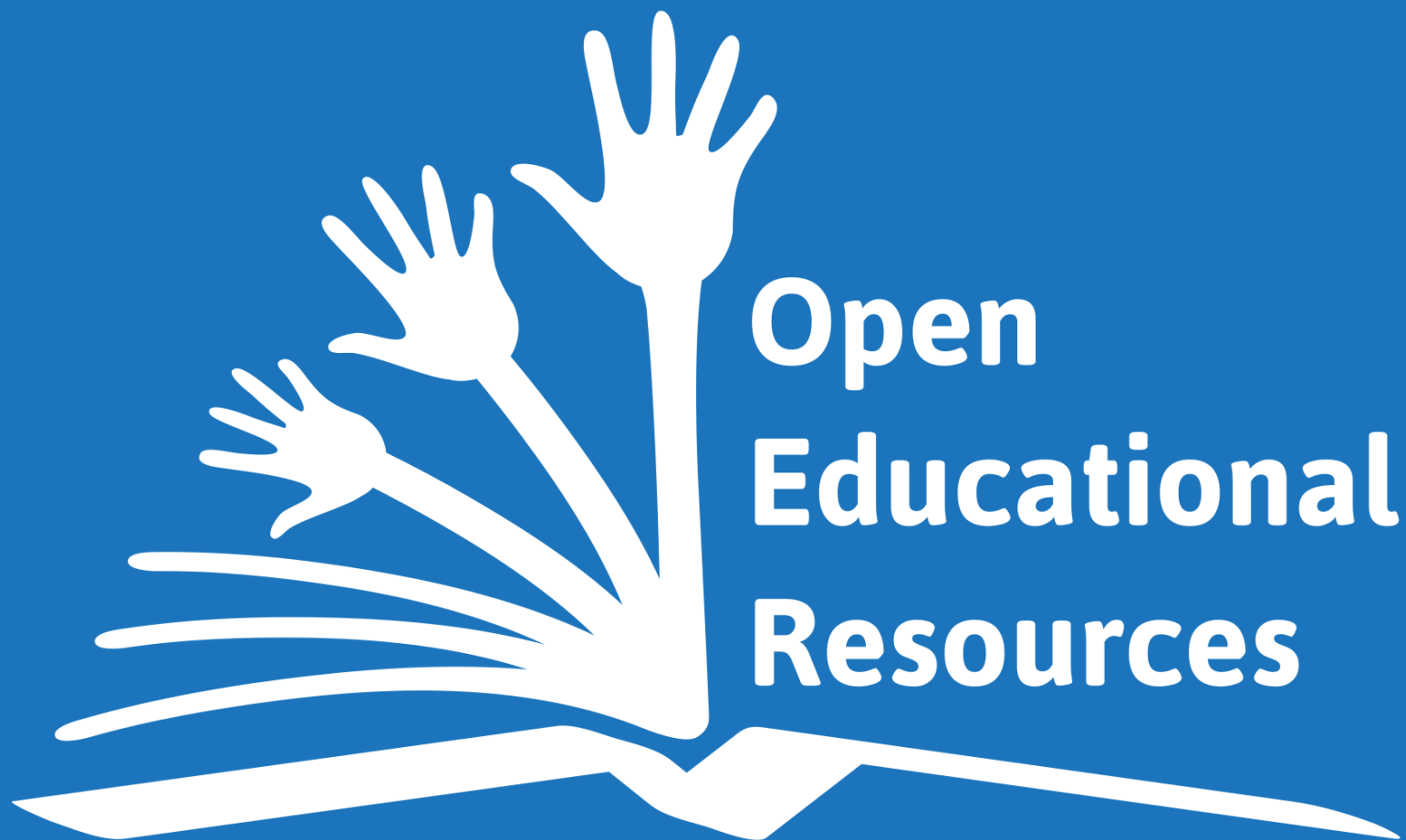
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**By title** | **By subject** | **By publisher**

Expand Subject Tree

- Agriculture and Food Sciences
- Arts and Architecture
- Biology and Life Sciences
- Business and Economics
- Chemistry
- Earth and Environmental Sciences
- General Works
- Health Sciences
- History and Archaeology
- Languages and Literatures
- Law and Political Science
- Mathematics and Statistics
- Philosophy and Religion
- Physics and Astronomy
- Science General
- Social Sciences
- Technology and Engineering



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e-PG Pathshala

## About

An MHRD, under its National Mission on Education through ICT (NME-ICT), has assigned work to the UGC for development of e-content in 77 subjects at postgraduate level. The content and its quality is the key component of education system.

High quality, curriculum-based, interactive content in different subjects across all disciplines of social sciences, arts, fine arts & humanities, natural & mathematical sciences, linguistics and languages is being developed under this initiative named e-PG Pathshala.

On the auspicious presence of Hon'ble President Shri. Pranav Mukherjee, Hon'ble HRM Shri. Prakash

## Subject Category



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Languages



Engineering & Technology



Life Science



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Electronics & Communication Engineering

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GATE PREPARATION



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HELP



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Massive Open Online Courses (MOOCs) are [free online courses](#) available for anyone to enroll. MOOCs provide an affordable and flexible way to learn new skills, advance your career and deliver quality educational experiences at scale.

MOOC.org is an extension of [edX](#), a leader in online learning and education. Whether you're interested in learning for yourself, leveraging online courses to educate your workforce or [creating a MOOC](#), edX can help. Explore online courses and programs in key fields like [computer science](#), [data science](#), [business and management](#), and more.

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## Refine your search

## Availability

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Self-Paced	917
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All Programs	108
Credit-Eligible	16
MicroMasters	41

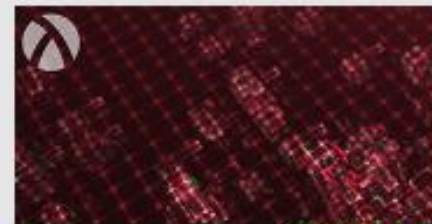
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CREDIT-ELIGIBLE

MITx  
Introduction to Computer  
Science and Programmi...

Current  
Self-Paced



VERIFIED

UBCx  
How to Code: Simple Data

Current  
Self-Paced



VERIFIED

HarvardX  
Introduction to Computer  
Science

Current  
Self-Paced



VERIFIED

LinuxFoundationX  
Introduction to Linux



VERIFIED

PennX  
Programming for the Web  
with JavaScript



CREDIT-ELIGIBLE

BerkeleyX  
Agile Development Using  
Ruby on Rails - The Basics

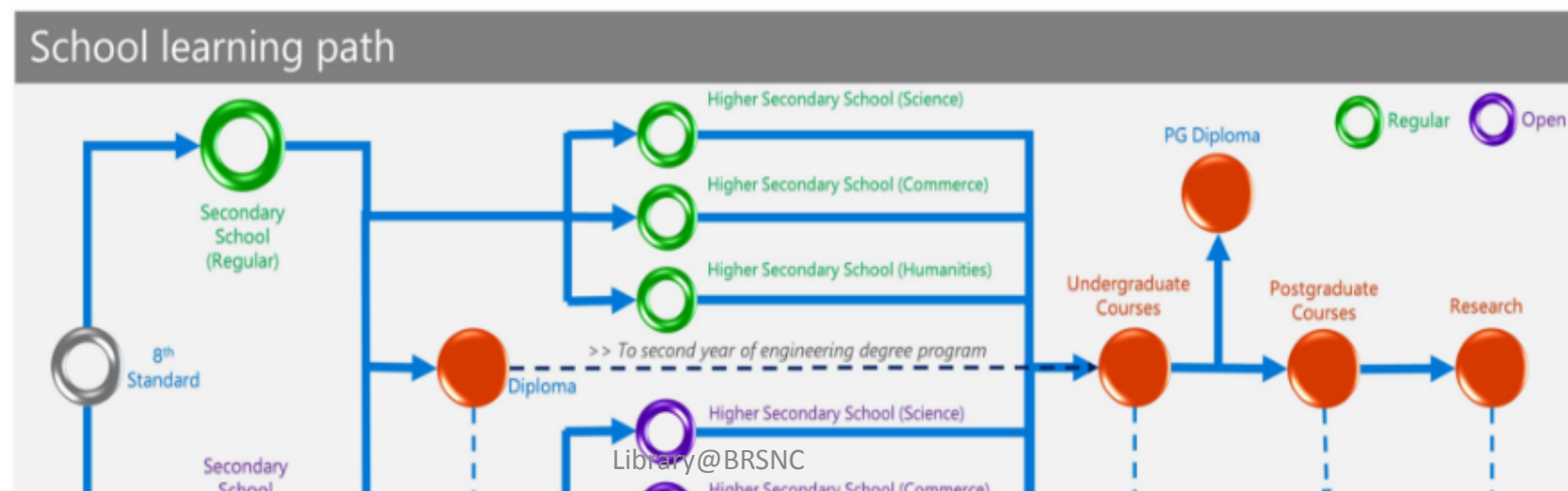


## SCHOOL COURSES

At the age of 14 years, SWAYAM starts offering a wide variety of learning options. SWAYAM will take care of all the learning needs across all streams. Learners, who are regular and learners who had discontinued their studies due to some reason. Learners can choose between regular or open secondary education streams. A learner can enroll in a regular school and get additional online mentoring through courses run on SWAYAM. Alternatively, a learner can choose open school education run by [CBSE](#) and [NIOS](#). On completion of the courses, the learner can take the examinations as per schedule.

The option of On-Demand examination is provided to learners who have not succeeded in their scheduled attempt and this can be taken on a first-come-first-served basis five days a week, with practical examinations scheduled on Saturdays. In case a learner has not secured pass marks in one or more subjects in [CBSE](#); then the option of specific subject on-demand examination is available in [NIOS](#), wherein the remaining successful credits from [CBSE](#) can be transferred to [NIOS](#). Successful completion earns the learner a Secondary Education certificate, which is acknowledged by all educational councils.

The school learning path below helps you to explore your future learning and career options through open or regular education.





# re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES



## PROJECTS USING DATA PUBLISHER

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The ODR's Data Publisher is currently in beta testing by a number of scientific projects. Each section below links to more information about the project.

### ASTROBIOLOGY HABITABLE ENVIRONMENTS DATABASE

[AHED](#) is a central, high quality, long-term searchable repository for archiving and collaborative sharing of astrobiologically relevant data, including mineralogical, biological, morphological, textural, chemical, isotopic, and crystallographic information.



### CHEMIN DATABASE

The [CheMin database](#) contains all the data products associated to the analyses performed by the CheMin X-ray diffractometer on the Mars Science Laboratory rover Curiosity in Gale crater, Mars.



### UA MINERAL MUSEUM DATABASE

The UAMM mineral and fossil collection consists of over 21000 specimens. [Link to the UAMM database.](#)



### MINERAL EVOLUTION DATABASE

The goal of the database is to correlate the diversity of mineral species with their ages, localities, and other measurable properties.

figshare	100 GB free per Scientific Data manuscript. Additional fees apply for larger datasets	1 TB per dataset
Harvard Dataverse	Contact repository for datasets over 1 TB	2.5 GB per file, 10 GB per dataset
Open Science Framework	Free of charge	5 GB per file, multiple files can be uploaded
Zenodo	Donations towards sustainability encouraged	50 GB per dataset

# Browse by country

Graphical



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OR Tools



Sandhi



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Scilab-Arduino

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# Free Reference Management Tools\*



\* May have some limitations.

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THE WORLD IS  
GOING TO CHANGE  
WITH OR WITHOUT  
YOU...

GET READY

# COMMIT TO PUTTING **OPEN** IN ACTION



**THE  
FUTURE  
IS  
OPEN.**