



# Open Access and Open Science in the Global South

Anup Kumar Das Jawaharlal Nehru University, New Delhi, India

Online Workshop on "Research Ethics and Quantitative Techniques for Research and Publications"

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College Library Goswami Ganesh Dutta S.D. College, 32-C, Chandigarh

## **Content of the Presentation**

- Open Access definitions
- Open Access initiatives in developing countries
- Open Access initiative in India

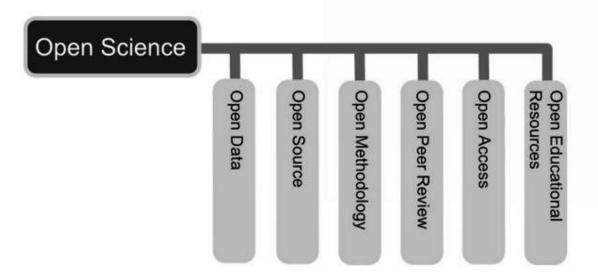
# Definitions

- Open Access (OA) refers to free, unrestricted online access to research outputs such as journal articles and books. OA content is open to all, with no access fees. There are two main routes to making research outputs openly accessible.
- Green Open Access is where an author publishes their article in any journal and then self-archives a copy in a freely accessible institutional or specialist online archive known as a repository, or on a website. Also refers to the self-archiving of an article in a non-commercial subject repository or non-commercial institutional repository (usually after an embargo period).
- Gold Open Access is where an author publishes their article in an online open access journal.
- Platinum Open Access means permanent and free access to published scientific works for readers with no publication fees for the authors – 100% free. Authors are not charged article processing fees or publication fees – no fees whatsoever.

## Definitions

- Open Access Publishing: While OA is a newer form of scholarly publishing, many OA journals comply with well-established peer-review processes and maintain high publishing standards.
- Self-archiving is the act of depositing a free copy of an electronic document online in order to provide open access to it.
- Open Science represents a new approach to the scientific process based on cooperative work and new ways of diffusing knowledge by using digital technologies and new collaborative tools (European Commission, 2016)
- "to make the primary outputs of publicly funded research results publications and the research data – publicly accessible in digital format with no or minimal restriction" (OECD, 2015:7)
- Open Science is about extending the principles of openness to the whole research cycle, fostering sharing and collaboration as early as possible thus entailing a systemic change to the way science and research is done. (Source: www.fosteropenscience.eu/content/what-open-science-introduction)

"Open Science represents an approach to research that is collaborative, transparent, and accessible. A wide range of activities comes under the umbrella of Open Science including Open Access publishing, Open Data,Open Notebook, Open Peer Review, and Open Education."



https://commons.wikimedia.org/wiki/File:Open\_Science\_-\_Prinzipien.png

## **Open Science**

- Open Science is the movement to make scientific research and data accessible to all.
- It includes practices such as:
  - Publishing Open Scientific Research,
  - Campaigning for Open Access & generally making it easier to publish, and
  - Communicate Scientific Knowledge.
  - Other ways to make science more transparent and accessible during the research process. This includes
    - Open Science Notebook,
    - Citizen Science,
    - Aspects of Open Source Software,
    - Crowdfunded Research Projects.

Source: Global Open Access Portal, UNESCO

#### **Open Science: Importance**

 To overcome the knowledge divides, we need more cooperation across disciplines and across borders to help governments develop more effective and inclusive policies, North and South. International networks, open data sources, co-creation of knowledge, open access to publishing and software – these are all vital to achieving this.

Irina Bokova | Director-General of UNESCO World Social Science Report 2016: Challenging Inequalities: Pathways to a Just World

#### **Promoting Openness at Different Stages of the Research Process**

Citation & Hypothesis credits **Data Collection** 

Uses rights Credits through Citation

Citation





Publication

Metadata & Open licences Institutional Repositories



Preservation and Integrity of material

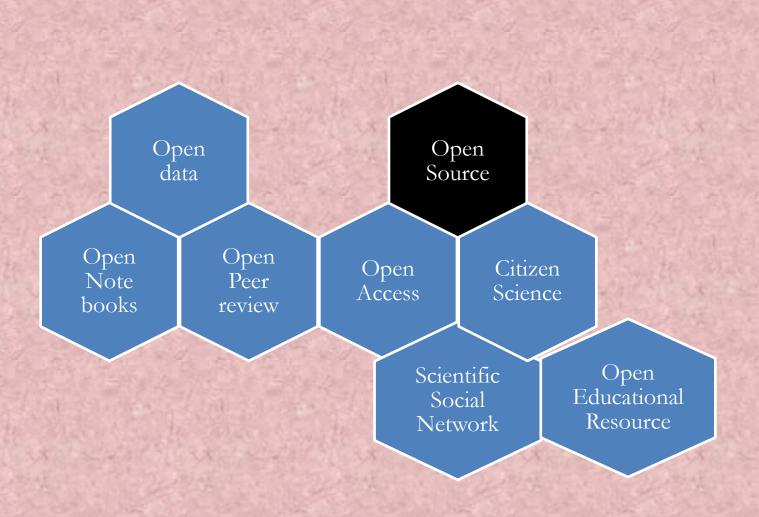
Open source software Processing

Storing

Metadata & Open licences

Source : https://www.fosteropenscience.eu/node/1431#osri2014

#### **Open Science Facets**



#### **Open Science School of Thoughts**

Infrastructural Collaborations/ tools

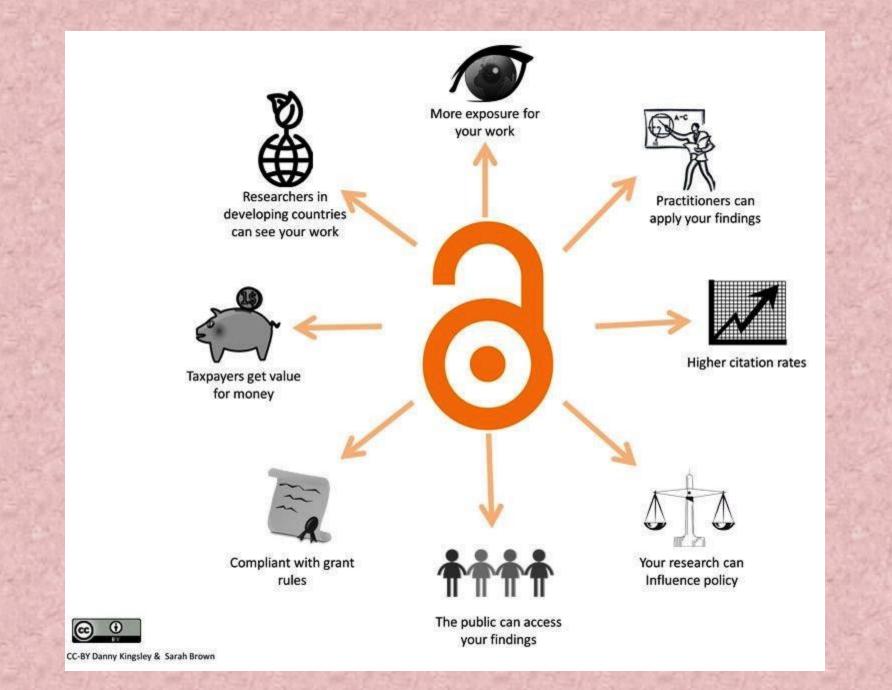
Pragmatic Efficient and Goal Oriented Knowledge Generations

Open Science Public Citizen Science / Science Blogs

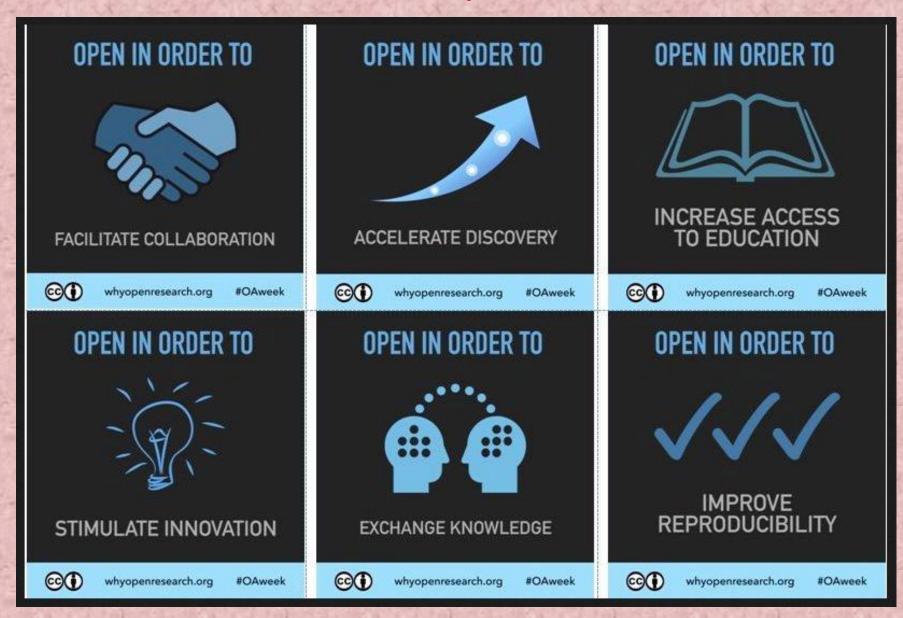
#### Democratic

Open access/ Open Data/ Open Code

#### Measurements Altmetric tools / Peer Review/ Citation tools



#### Why



#### WHY OPEN ACCESS TO SCIENTIFIC PEER-REVIEWED PUBLICATIONS?



#### GOOD FOR SCIENCE

allows scientists to build on previous research results and avoids unnecessary duplication of effort improved quality and greater efficiency

#### GOOD FOR THE ECONOMY

speeds up innovation faster progress to market



#### GOOD FOR SOCIETY

makes research available to individual citizens and to non-profit organisations greater transparency



"Jack Andraka, a 15 year old from USA, used free articles from Google Scholar to develop a highly innovative method of detecting a rare type of pancreatic cancer."

Open Access brings new audiences to scholarly content, such as educators, business owners, support workers and so on by removing barriers of affordability and access.



Increased Visibility Increased Citation Rates



Citation Rates 62% 38% Open access Subscription articles access articles

> "Piya Sorcar, founder of Teach Aids made materials & research about HIV available for free globally. The material is now available in 15 languages and has reached over 70 countries, including numerous educators, governments and NGOs."

Funders, such as the Research Councils, European Commission and the Wellcome Trust, mandate for open access publication of research outputs.

Public Access

**Drives** 

Innovation



Visibility

wider dissemination of **Media** research undertaken in Austria higher quality of information services

Public transparent spending of tax money

Publisher market entrance for providers from Austria

Developing Countries self-help based on current scientific knowledge

Reproducibility simplifying the verification of research results

> Knowledge Networks new potentials via data and text mining

> > Interdisciplinarity enhances exchange between disciplines



Democratisation access independent of income

Knowledge Transfer

diffusion of knowledge into all societal areas

#### Education

teaching and learning according to the scientific state of the art

> Citizen Science participation of citizens in the research process

#### Politics

making better decisions based on current scientific knowledge

Health up-to-date information for doctors and patients

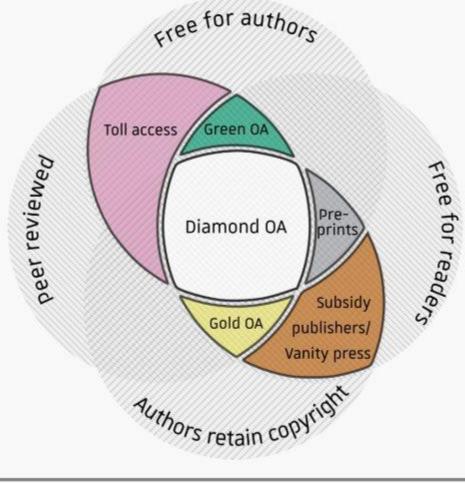
Research Efficiency avoiding duplication and double funding

Open Innovation access to cutting-edge research encourages innovation



#### ♦ Where do we fit in?

The distinction between types of publishing and access can often seem complex. Nevertheless, most of the salient points can be summed up in one simple diagram:



## THE IMPACT OF OPEN ACCESS

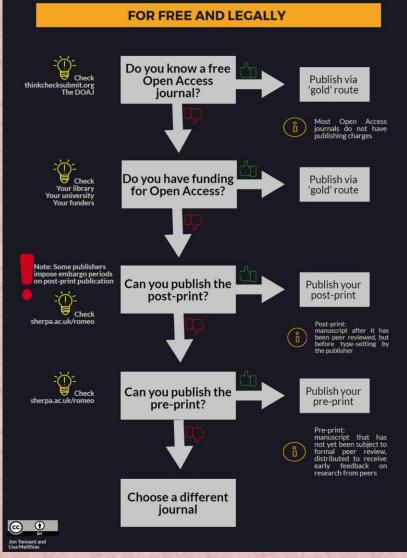
| Demonstrating Achievements<br>Open access for Institutions |                                       |                                       |                                                     | utation Buil<br>access for A                         | •                            | Advancing Knowledge<br>Open access for Readers |                                     |                                        |  |
|------------------------------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------------------|------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------|----------------------------------------|--|
| Building<br>Reputation                                     | Garnering<br>Funding                  | Developing<br>Alumni<br>Connections   | Amplifying<br>Scholarly<br>Expertise                | Preserving<br>Scholarly<br>Legacy                    | Developing<br>Niche<br>Field | Affecting<br>Public<br>Policy                  | Advancing<br>Innovation             | Linking<br>Global<br>Experts           |  |
| Strengthening<br>Recruiting                                | Demonstrating<br>Learning<br>Outcomes | Profesionalizing<br>Students          | Forging<br>Business &<br>Government<br>Partnerships | Popularizing<br>Research in<br>Mainstream<br>Outlets | Finding<br>Collaborators     | Building<br>Local<br>Community                 | Improving<br>Access to<br>Education | Datamining<br>Research                 |  |
| Contributing<br>Stories for<br>Public<br>Relations         | Aiding<br>Accreditation               | Boosting<br>Operational<br>Efficiency | Modeling<br>Innovative<br>Teaching                  | Launching<br>Scholarly<br>Career                     | Improving<br>Quality         | Updating<br>Practitioners                      | Connecting<br>Cultures              | Informing<br>Prospective<br>Applicants |  |

₿ bepress<sup>™</sup>

|  | <b>Table 2.1:</b> | Indicative | <b>Open Access</b> | Timeline <sup>7</sup> |
|--|-------------------|------------|--------------------|-----------------------|
|--|-------------------|------------|--------------------|-----------------------|

| 1991                          |                                    | 200                       | 00                            | -                                | 2001                                                   |                                            | 200       | )2                                   | -                         |                               | 20                         | 03                                                          | 2006                                                         | 2007                                              | 2008                                                             |
|-------------------------------|------------------------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------------|-----------|--------------------------------------|---------------------------|-------------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|
| arXiv.org Repository Launched | PubMed Central Repository Launched | EPrints software Released | <b>PLOS</b> journals Launched | BioMed Central journals Launched | <b>OJS</b> (Open Journal Systems) Software<br>Released | SPARC Launched<br>DSnace software Released | imons Lic | Budapest OA Initiative (Declaration) | OAIster Database Launched | Berlin, Bethesda Declarations | WSIS Action Lines Launched | <b>DOAJ</b> (Directory of Open Access<br>Journals) Launched | <b>OpenDOAR</b> (Directory of Open<br>Repositories) Launched | Celebration of <b>Open Access Week</b><br>Started | OA Scholarly Publishers Association<br>( <b>OASPA</b> ) Launched |

# HOW TO MAKE YOUR RESEARCH OPEN ACCESS



#### HOW TO ACHIEVE OPEN ACCESS IN HORIZON 2020

# SELF-ARCHIVING

deposit the final peer-reviewed manuscript in a repository of your choice.

Researchers must ensure open access to the publication within at most 6 months (12 months for publications in the social sciences and humanities).

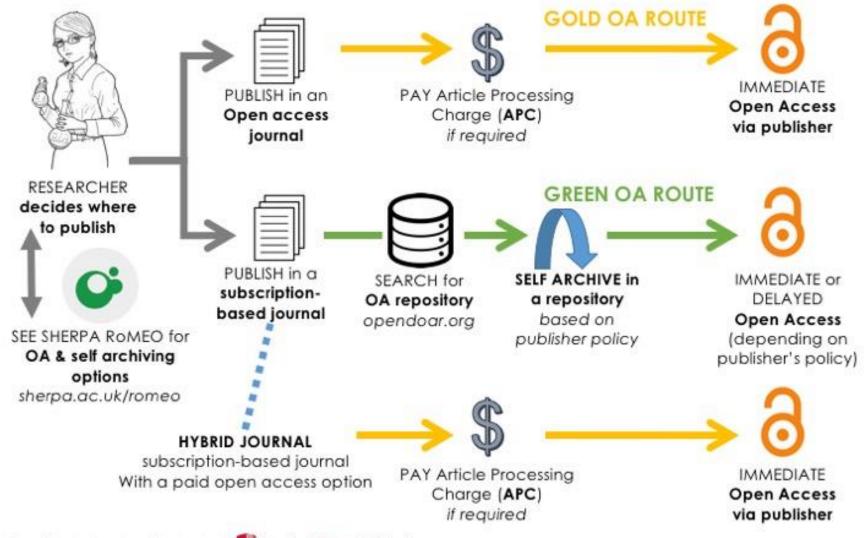
#### OPEN ACCESS PUBLISHING

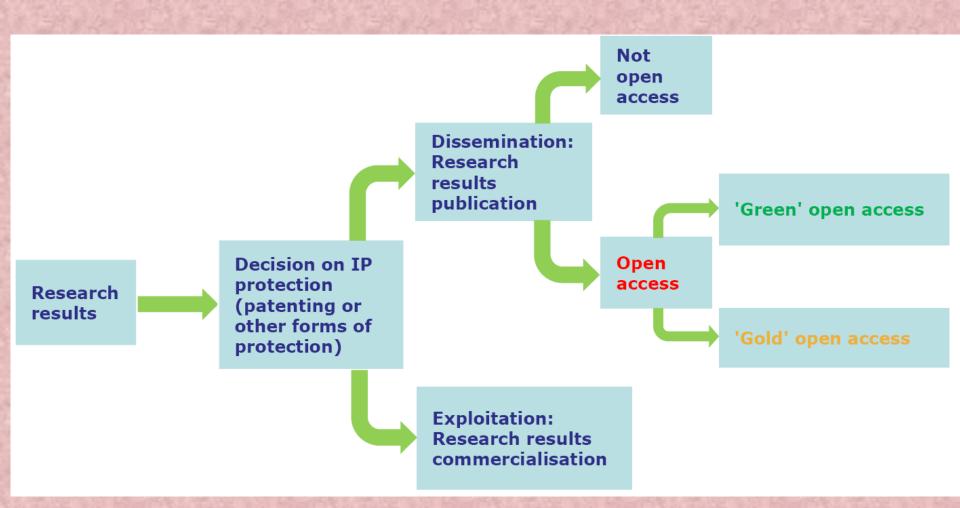
#### publish in open access journals or in hybrid journals.

Article processing charges are eligible for reimbursement during the duration of your project. Hybrid journals sell subscriptions (i.e. closed access) AND offer the option of making some individual articles open access.

BOTH OPTIONS ARE POSSIBLE if the gold route is chosen the article must also be deposited in a repository to comply with Article 29.2.

# **Open Access Publishing**





- Do Open Access models have an impact on intellectual property rights?
- No. OA will not affect the IP generated by research results, because the decision on whether to publish OA documents comes after the more general decision.

## **Open Science Movement**

- The many advantages of Open Science Movement include:
  - Greater availability and accessibility of publicly funded scientific research outputs;
  - Possibility for rigorous peer-review processes;
  - Greater reproducibility and transparency of scientific works;
  - Greater impact of scientific research.

Source: Global Open Access Portal (GOAP), UNESCO

# Celebration of Promotional Weeks for Open Science

- International Open Access Week | 19-25 October 2020 | Everywhere [http://www.openaccessweek.org]
- International Open Education Week | 1-5 March 2021 | Everywhere [https://www.openeducationweek.org]
- International Data Week | 8–11 November 2021
   [http://www.internationaldataweek.org]: The theme of IDW 2018 and IDW 2016 were respectively 'Digital Frontiers of Global Science' and 'From Big Data to Open Data: Mobilising the Data Revolution'. IDW 2018 edition was be held at Gaborone, Botswana in African region during 5-8 November.



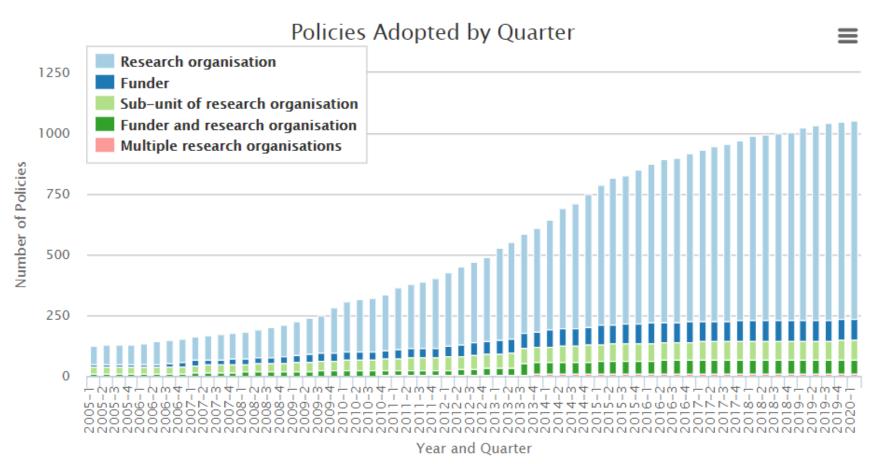
# registry of Research Data Repositories

# **OpenDOAR**

The Directory of Open Access Repositories ROAR- Registry of Open Access Repositories

DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

#### Growth of OA Policies Adopted Worldwide, 2005-2020



Highcharts.com

Source: Registry of Open Access Repository Mandates and Policies (ROARMAP), <u>http://roarmap.eprints.org/</u>

## **BRICS** Nations on **ROARMAP**

Registry of Open Access Repository Mandates and Policies

| Name of the Country         | Available Policy |
|-----------------------------|------------------|
|                             | Instruments      |
| Brazil                      | 26               |
| Russia                      | 8                |
| India                       | 16               |
| China (including Hong Kong) | 8                |
| South Africa                | 11               |
| Total from BRICS Economies  | 69<br>(6.56%)    |
| Global Total                | 1051             |

## **Global Mapping of OA Movements**



**Funding Mandates** 

**Key Organizations** 

**Thematic Areas** 

**Open Access Community** 

**Open Science Movement** 

**Contributors and Disclaimer** 



The Global Open Access Portal (GOAP) funded by the Governments of Colombia, Denmark, Norway, and the United States Department of State, presents a current snapshot of the status of Open Access (OA) to scientific information in 158 countries worldwide. For countries that have been more successful in implementing Open Access, the portal highlights critical success factors and aspects of the enabling environment. For countries and regions that are still in the early stages of Open Access development, the portal identifies key players, potential barriers and opportunities.

The Global Open Access Portal is designed to provide necessary information for policy-makers to:

- Learn about the global Open Access environment;
- View their country's status; and
- Understand where and why Open Access has been most successful.

At a glance, the portal provides an overview of the framework surrounding Open Access in UNESCO Member States by focusing on:

• The critical success factors for effectively implementing Open Access;

#### COPER ACCESS SCHOLARLY RESOURCES VIDEO COPER ACCESS EXPL. SECONS COPE

A

#### **RELATED INFORMATION**

http://www.unesco.org/new/en/communication-and-information/portals-and-platforms/goap/

# **Open Science Proliferation in BRICS Nations**

| Open<br>Science<br>Channel/<br>Country | No. of items in<br>Directory of<br>Open Access<br>Journals<br>(DOAJ)* | No. of items in<br>Directory of<br>Open Access<br>Scholarly<br>Resources<br>(ROAD)# | No. of items in<br>Directory of<br>Open Access<br>Repositories<br>(OpenDOAR)* | No. of items in<br>Registry of<br>Research Data<br>Repositories<br>(RE3Data.org)# |
|----------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Brazil                                 | 1081                                                                  | 1184                                                                                | 97                                                                            | 7                                                                                 |
| Russia                                 | 186                                                                   | 670                                                                                 | 28                                                                            | 21                                                                                |
| India                                  | 198                                                                   | 2175                                                                                | 79                                                                            | 31                                                                                |
| China                                  | 102                                                                   | 29                                                                                  | 40                                                                            | 37                                                                                |
| South Africa                           | 63                                                                    | 145                                                                                 | 33                                                                            | 6                                                                                 |
|                                        | 1630                                                                  | 4203                                                                                | 277                                                                           | 95                                                                                |
| Total                                  | (15.96%)                                                              | (16.78%)                                                                            | (8.03%)                                                                       | (5.0%)                                                                            |
| Global<br>Total                        | 10213                                                                 | 25047                                                                               | 3448                                                                          | 2036                                                                              |

# Data as on 16<sup>th</sup> March 2018 | \* Data as on 10<sup>th</sup> October 2017.

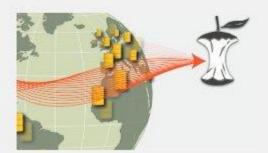


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|                                                      |                           |                  | 1.                                  | CORE                                                                                                                                    |                             |                    |
|------------------------------------------------------|---------------------------|------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|
| all of the words                                     | Open Acc                  | cess India       |                                     | Author                                                                                                                                  |                             |                    |
| exact phrase                                         |                           |                  |                                     | Publisher                                                                                                                               |                             |                    |
| at least <b>one</b> of the<br>words                  |                           |                  |                                     | Repository                                                                                                                              |                             |                    |
| without the words                                    |                           |                  |                                     | DOI                                                                                                                                     |                             |                    |
| find those words                                     | anywhere                  | e in the article | •                                   | Year                                                                                                                                    |                             |                    |
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| Refine your search                                   |                           | Showing rea      | sults for (Open ANE                 | O Access AND India) (21                                                                                                                 | 10,946 articles found)      | Sort by: Relevance |
| Publication type with fulltext only Year 1998 - 2017 |                           |                  | Repository: M<br>Archive India Stef | rlone and Saibal Ghosh<br>unich RePEc Personal A<br>ano Chairlone and Saibal Gho<br>27 MPRA Paper No. 17402, po<br>(B) Similar articles | sh January 2009 Online at h |                    |
| Languages<br>English<br>German<br>French<br>Spanish  | 43,345<br>140<br>85<br>76 |                  | practical nee                       | s journals and ins<br>ed and present tre<br>Nazim and Maya Devi                                                                         |                             | ies:               |

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http://core.ac.uk/search?q=(Open%20AND%20Access%20AND%20India) CORE Advanced Search

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CORE aggregates research papers from data providers from all over the world including institutional repositories, subject-repositories and journal publishers. This process, which is called harvesting, allows us to offer search, text-mining and analytical capabilities over not only metadata, but also the full-text of the research papers making CORE a unique service in the research community.

CORE currently contains 134,356,349 open access articles, from over tens of thousands journals, collected from over 3,698 repositories around the world.

Learn more about becoming a data provider



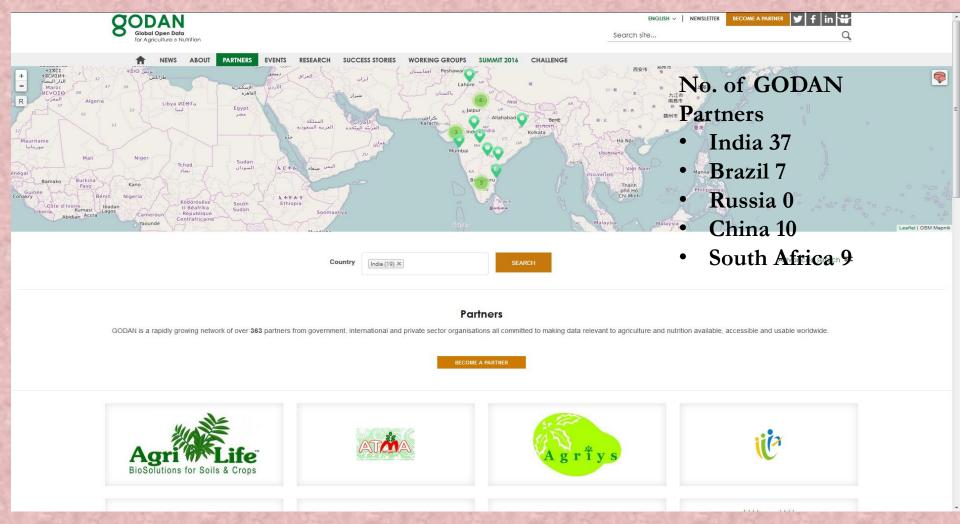
## **Open Research Data Repositories**







- <u>https://www.re3data.org/browse/by-country/</u>
- Brazil : 9 Open Data Repositories
- Russia : 22 Open Data Repositories
- India: 51 Open Data Repositories
- China : 44 Open Data Repositories
- South Africa: 11 Open Data Repositories

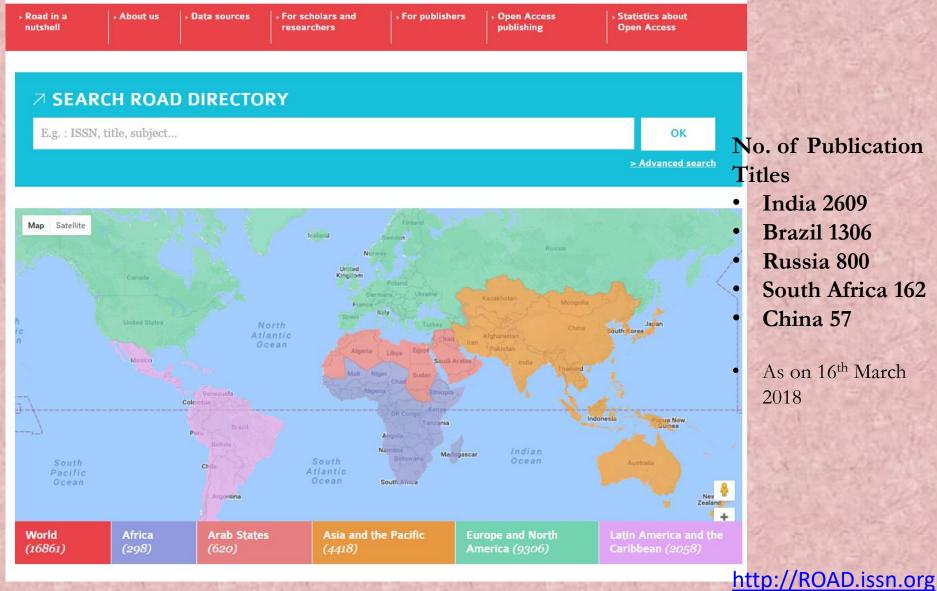


GODAN.info (Global Open Data for Agriculture and Nutrition): Challenging global poverty and promoting food security through opening up data in agriculture and nutrition for everyone. #OpenData #ICT4AG #SDG2 #GODAN is a rapidly growing network of over 656 partners from government, international and private sector organisations all committed to making data relevant to agriculture and nutrition available, accessible and usable worldwide.

## **Open Access Scholarly Resources**

ISSN 2310-9173





## **Indian National Initiatives**

### **Open Access India** Indian Civil Society Actor for Open Science Movement

#### **Open Access India**

Advocating Open Access, Open Data and Open Education in India

| Home | About Us | Join Us | Ambassadors | Code of Conduct | News & Events | Resources | Projects | Blog | Contact Us |
|------|----------|---------|-------------|-----------------|---------------|-----------|----------|------|------------|
|      |          |         |             | 0               |               |           |          |      |            |
| •    | D        |         | en          |                 | in            |           | la       | l    |            |

#### Home

#### Welcome to Open Access India!

The Budapest Open Access Initiative defined "Open Access" as making it freely available on the public Internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the Internet itself.

For creating awareness among the graduate students, early career researchers, professors, research managers and the policy makers on opening up of the access to the publicly funded research in India,

'Open Access India,' a community of practice advocating Open Access, Open data, Open education in India has been formed initially as an online Facebook group on 8th July 2011.



EN ACCESS INDIA

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#### **OPENCON 2016 RANCHI**





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#### Saturday, November 12

## **Delhi Declaration on Open Access** (Released on 14<sup>th</sup> February 2018)

Released on 14th Feb. 2018

openindia February 14, 2018 Advocacy, Conference, Definition, Open Access, Open Access Policy

#### Delhi Declaration on Open Access

This declaration was drafted by a group comprising of researchers and professionals working for opening up access to research outputs for public good in India. The declaration is aimed at scientific communities, scholarly societies, publishers, funders, universities and research institutions to promote openness in science and research communications.

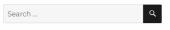
#### Preamble

The South Asian region, home to 24% of the world's population faces major challenges such as hunger, poverty and inequality. These challenges become the collective responsibility of scholars and experts in research universities across the country. Consequently, it becomes imperative that research institutes share scientific research outputs and accelerate scientific research. The Open Access movement which aims for making all 'publicly funded research outcomes publicly available for the public good' is gaining momentum.

"Open means anyone can freely access, use, modify, and share for any purpose (subject, at most, to requirements that preserve provenance and openness)" – Open Definition.

As per the Budapest Open Access Initiative (<u>BOAI</u>), '**Open Access**' (to scholarly literature) is "free availability on the public internet, permitting any

- Marked the 16th Anniversary of Budapest Open Access Initiative (BOAI)
- 120+ Signatories from the Global South
- Supported by the Knowledge Societies Division of UNESCO; IFLA RSCAO; Forum for Open Access in SAARC, etc.
- Online: http://openaccessindia.org/delhi-declaration-on-open-access/



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  A Very Brief Introduction to Open Access By
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## Advocacy for Open Science: Some Recent Success Stories

- In 2011, Shodhganga: A Reservoir of Indian Theses was launched by INFLIBNET Centre, to serve the mandates of the UGC Notification (Minimum Standards & Procedure for Award of MPhil/PhD Degree, Regulation, 2009) dated 1 June 2009, to facilitate open access to Indian theses and dissertations for global dissemination to the academic community world-wide.
- In December 2014, the Department of Biotechnology (DBT) and the Department of Science and Technology (DST), Government of India had jointly adopted the *DST/DBT Open Access Policy*.



Central Platform for Open Archieve Repository and Harvestor Department of Science and Technology



Ministry of Science & Technology, Government of India

#### http://shodhganga.inflibnet.ac.in



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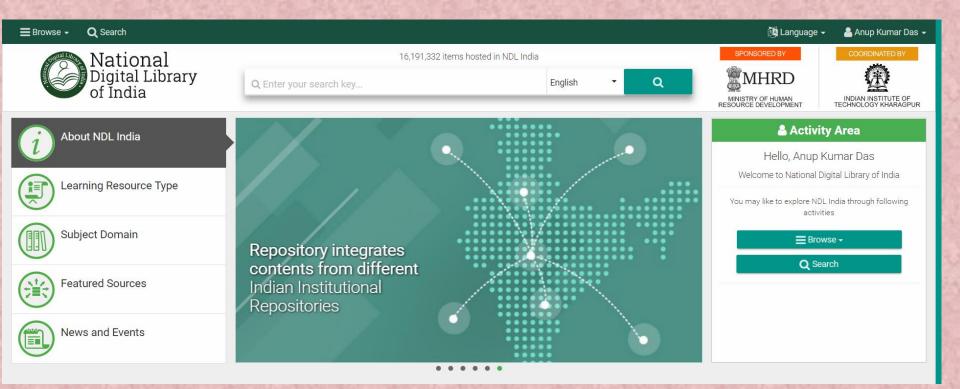
» Three Days National Workshop on Ethical Issues and Use of Anti-Plagiarism for Research Integrity scheduled to be held at INFLIBNET Centre, Gandhinagar from 26thMarch - 28th March, 2018. Workshop Pics

269733 Full-text Theses & Dissertations (available globally) 438 Contributing Universities

## UNESCO Open Access (OA) Curriculum for Researchers | Library Schools



- In March 2015, UNESCO and CEMCA (Commonwealth of Learning) jointly launched an Open Access Curriculum for Researchers, and an Open Access Curriculum for Library Schools.
- 9 modules are freely available and downloadable online.

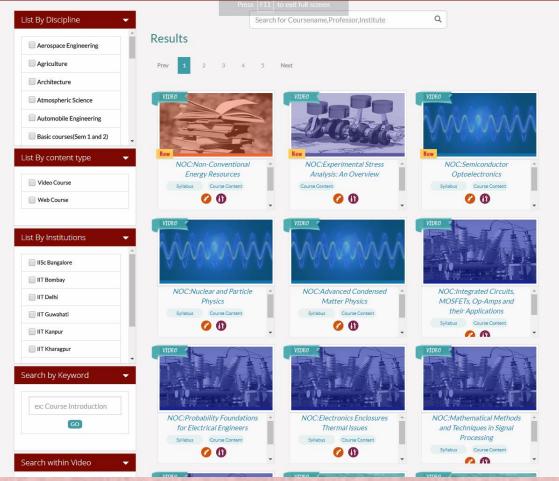


- National Digital Library of India
- <u>https://ndl.iitkgp.ac.in</u>
- Integrates contents from different Indian OA repositories | A kind of Metadata Harvesting Service
- 47,914,824 items indexed/ hosted in NDL India (as on 20-04-2020)

#### NPTEL

A Project funded by

MHRD, Govt, of India



- NPTEL (National Programme on Technology Enhanced Learning) offers
   OpenCourseware and Open Educational Resources (OER) | <u>www.nptel.ac.in</u>
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#### Welcome to ICSSR Data Service

The "ICSSR Data Service" is culmination of signing of Memorandum of Understanding (MoU) between Indian Council of Social Science Research (ICSSR) and Ministry of Statistics and Programme Implementation (MoSPI). The MoU provides for setting-up of "ICSSR Data Service: Social Science Data Repository" and host NSS and ASI datasets generated by MoSPI. Under the initiative, social science research institutes, NGOs, individuals and others dealing with social science research are also being approached to deposit / provide their research datasets for hosting into the repository of ICSSR Data Service. The ICSSR Data Service includes social science and statistical datasets of various national-level surveys on debt & investment, domestic tourism, enterprise survey, employment and unemployment, housing condition, household consumer expenditure, health care, etc., into its repository.

ICSSR Data Service aims to facilitate data sharing, preservation, accessibility and reuse of social science research data collected from entire social science community in India & abroad. The Information and Library Network (INFLIBNET) Centre, Gandhinagar has been assigned the task of setting-up the data repository.

#### DATASETS

**ICSSR Data Service (ICSSRDataService.in)** is culmination of signing of Memorandum of Understanding (MoU) between Indian Council of Social Science Research (ICSSR) and Ministry of Statistics and Programme Implementation (MoSPI). The MoU provides for setting-up of "ICSSR Data Service: Social Science Data Repository" and host NSS and ASI datasets generated by MoSPI.

## **Table 3.1: Various Author Rights Regime**

|                  | Symbol     | <b>Rights Statement</b> |
|------------------|------------|-------------------------|
| Copyright        | $\bigcirc$ | All rights reserved.    |
| Copyleft         | $\bigcirc$ | All wrongs reserved.    |
| Creative Commons | $\bigcirc$ | Some rights reserved.   |







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Others can only copy, distribute, display or perform verbatim copies of your work



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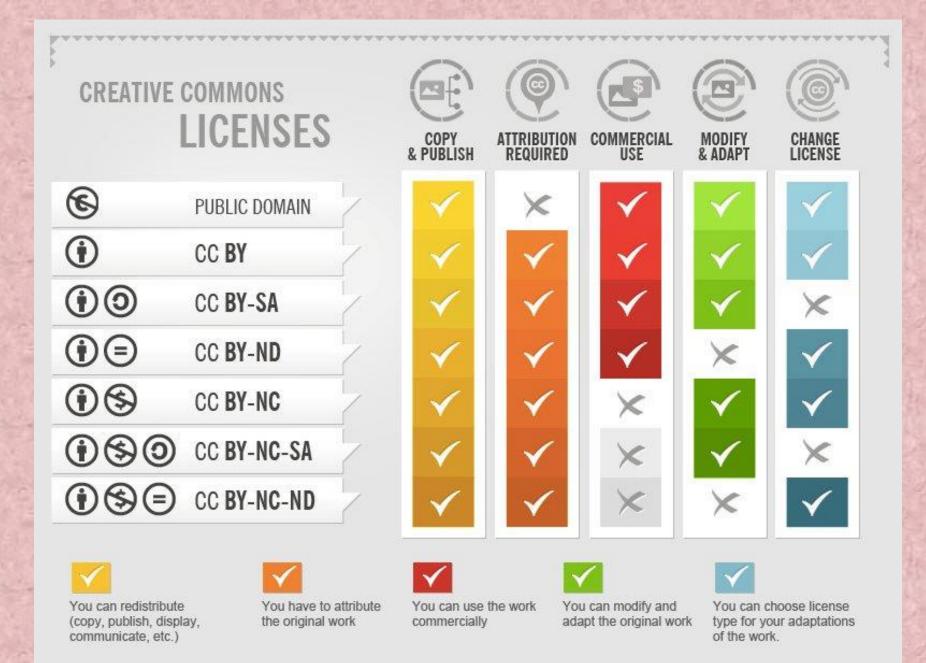
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Figure 3.1: Understanding Creative Commons Licenses<sup>20</sup>

Introduction to Open Access

### Table 3.2: Understanding Fully Open Access Resources from the"Open Access Spectrum"

| 1 | Reader Rights                                                                                                           | Reuse Rights                                                                                                                                                        | Copyrights                                                                                                            | Author                                                                                                                                  | Automatic                                                                                                                                                                                        | Machine                                                                                                                                                                                                                                  | 1 and |  |
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## ALTMETRICS

- Article Level Metrics (ALM) comprehensive and multidimensional suite of established metrics at the <u>article</u> level. <u>http://article-level-</u> <u>metrics.plos.org/alm-info/</u>
- Altmetrics creation and study of new <u>metrics based on the social web</u> for analyzing, and informing scholarship. Altmetrics Manifesto, <u>http://altmetric.org/about</u>











### Mentioned by 97 news outlets 59 blogs 2289 tweeters 10 weibo users

- 164 Facebook pages
- 3 Wikipedia pages
- 77 Google+ users
- 1 research highlight platform
- ] 1 Q&A thread
- 3 video uploaders



#### ALL RESEARCH OUTPUTS



of 14,545,878 outputs

#### **OUTPUTS FROM SCIENCE**



of 64,761 outputs

#### **OUTPUTS OF SIMILAR AGE**



of 176,237 outputs

#### **OUTPUTS OF SIMILAR AGE FROM SCIENCE**



of 593 outputs

Altmetric has tracked 14,545,878 research outputs across all sources so far. Compared to these this one has done particularly well and is in the 99th percentile: it's **in the top 5% of all research outputs ever tracked** by Altmetric.

# Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus (SARS-CoV2)

Overview of attention for article published in Science, March

2020



#### **3** Dimensions

Two weeks after its publication in @ScienceMagazine, our research on COVID-19 has risen to #1 in Altmetric score among all 65K outputs from Science, and #3 among tracked 14.5M research outputs from all sources so far. Our work is making an impact.



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In the past 12 months, Altmetric has tracked over **62.5 million** mentions of **2.7 million** research outputs. Here, we've highlighted the 100 most-discussed works of 2019 – those that have truly captured the public imagination

About the Top 100

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## https://www.altmetric.com/top100/2019/

## Thank you for your kind attention.

http://anupkumardas.blogspot.in