

# What is Open Access?

- Free
- ☑ Immediate
- ☑ Full Text
- Online access
- ☑ Limited or no copyright restrictions.

(Source: http://en.wikipedia.org/wiki/Open\_access)

# **Definition**

#### **Budapest definition**

By "open access" to this literature, we its mean availability 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. (Open Society Institute, 2002)

See

http://www.soros.org/openaccess/

Berlin definition

Definition of an Open Access
 Contribution

Establishing open access as a worthwhile procedure ideally requires the active commitment of and every individual producer of scientific knowledge and holder of cultural heritage. Open access contributions include original scientific research results, raw data and metadata, source materials, digital representations of pictorial and graphical materials and scholarly multimedia material.

See

http://www.zim.mpg.de/openacces

# Why Open Access for authors?

- Most research articles accessible by only a few
- Online managed, permanent database of scholarly output
- Open Access (OA) maximizes:-
  - @ research visibility, usage and uptake
  - @ research applications, impact and citation
  - @ research productivity, progress and funding
  - @ research manageability and assessability
  - By maximising research accessibility!

# Why Open Access for universities?

- There is an ethical argument that research funded by the public should be available to the public.
- To maximise, measure & reward the uptake, usage, applications and impact of a university's research output
- To collect, manage & showcase a permanent record of the university's research output.

#### **Open Access Movement & initiatives**

Promoting OA and OA Advocacy: A number of Initiatives

#### Statements & Declarations

- ▶Berlin Declaration on Open Access to Knowledge in the Sciences & Humanities October 22, 2003
- ▶Bethesda Statement on Open Access 20 June 2003.
- →Budapest Open Access Initiative 14 February 2002
- **▶**NEAR
- **→**OECD Final Communique
- ◆Tempe Principles
- ➡Washington DC Principles for Free Access to Science
- →Wellcome Trust Position Statement and Research Reports
- World Summit on the Information Society Declaration of Principles and Plan of Action
- →Other

#### **Open Access Statements:**

http://www.digital-scholarship.org/oab/2statements.htm

# OA Poures & Roads

# Open Access 'Routes'

GOLD = authors publish in OA journals that make their articles freely accessible online immediately upon publication. OA journals are peer-reviewed. Depending on the model, authors may have to pay publishers a fee to publish.

**GREEN** = authors publish in a subscription journal, but also make their articles freely accessible online, usually by depositing them in either an institutional repository or central repository (either peer-reviewed postprints or non-peer-reviewed preprints).

# OAROads

# Publishers' archiving Policies

- **GREEN** = can archive pre-print and post-print
- **BLUE** = can archive post-print (ie final draft post-peer-review)
- **YELLOW** = can archive pre-print (ie pre-peer-review)
- WHITE = archiving not formally supported

(source: http://www.sherpa.ac.uk/romeoinfo.html#colours)

# International|National Initiatives: Open Access to Research

**SHERPA** http://www.sherpa.ac.uk/ SHERPA is investigating issues in the future of scholarly communication. It is developing open-access institutional repositories in universities to facilitate the rapid and efficient worldwide dissemination of research.

**ROAR** tracks the growth of existing OA Arcl Statistical Analysis

**ROARMAP** tracks the growth of institution

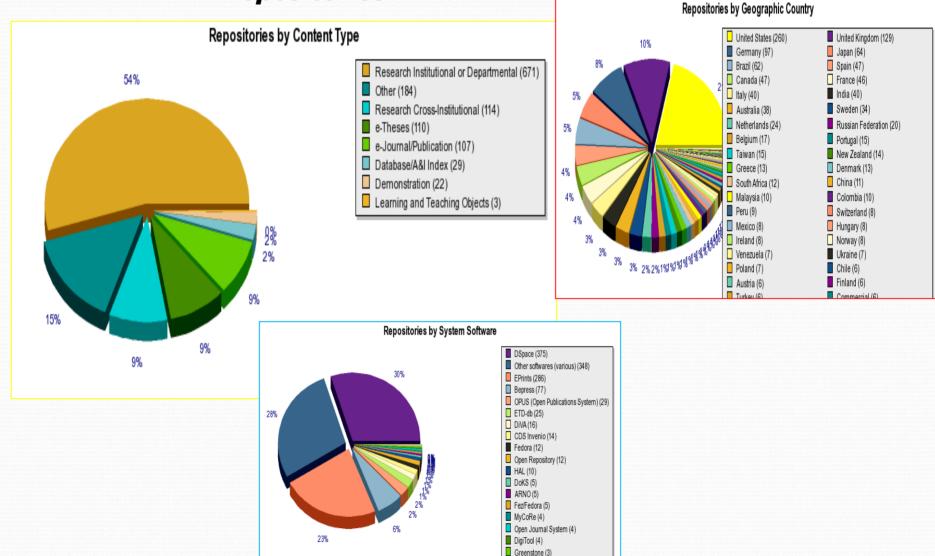
**ROMEO tracks** journal/publisher green" p. s.html.)

Publisher's copyright & archiving policies (http://www.sherpa.ac.uk/romeo/)

OpenDOAR Directory of Open / funders have implemented Open Access policies and level of funders' grant see: Selected research funders' grant policies and level of funds affected, please expenditure available at http://www.sherpa.ac.uk/juliet/financialstat

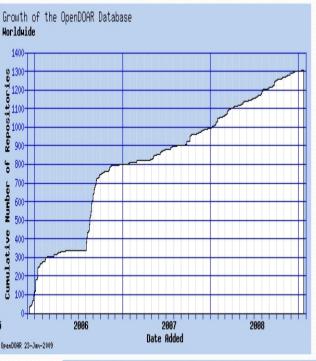
Let us take a look at some stattistics associated with some of these **JULIET** - Research funders archiving mandates and guidelines (http://www.sherpa.ac.uk/juliet/index.php)

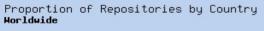
ROAR Registry of Open Access Repositories resulted in 1241 repositories

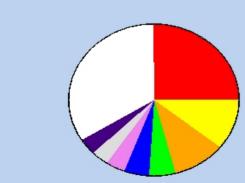


CaiV /2\

#### **OpenDOAR**

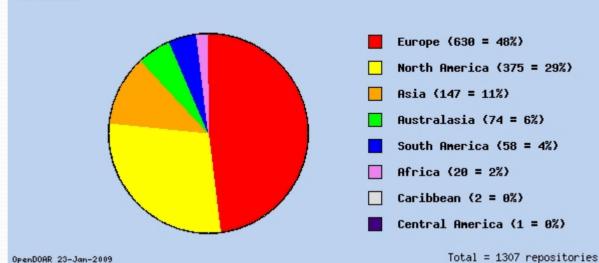




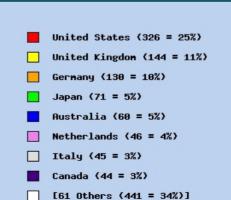


OpenDOAR 23-Jan-2009

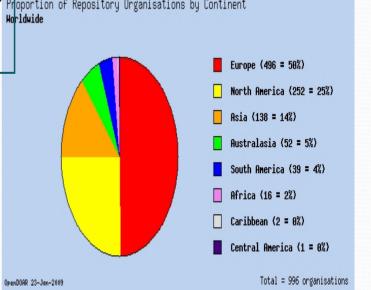
Proportion of Repositories by Continent **Horldwide** 

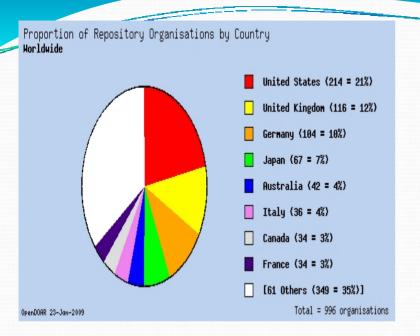


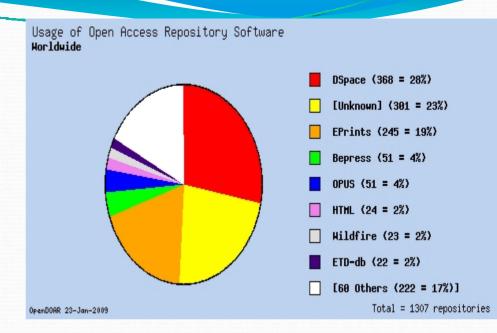
1307 repositories
996 Organisations
96 countries
8 Continents

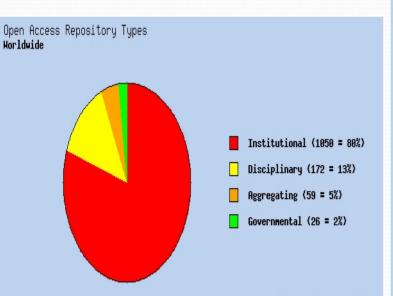


Total = 1307 repositories

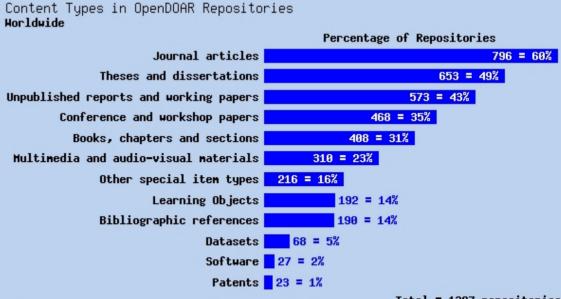








OpenDOAR 23-Jan-2009



Total = 1307 repositories OpenDOAR 23-Jan-2009 Total = 1307 repositories

#### OpenDOAR + India 33 repositories

Not registered in celestial Either the OAI-PMH interface is not working or it is awaiting action by ROAR editor

#### India:

Indian Institute of Science, Bangalore, India (20093 records)

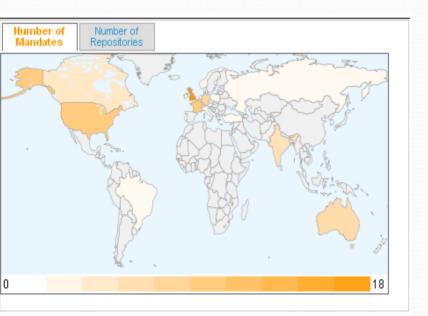
National Institute Of Oceanography, India (2088 records)

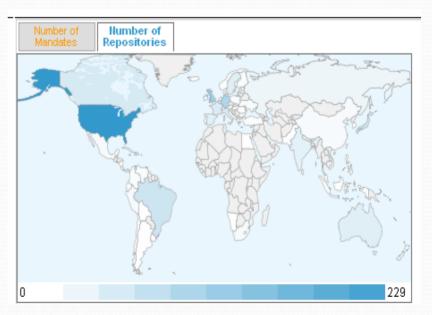
National Institute of Technology, Rourkela, India (727 records)

National Center for Antarctic Research, Goa, India (532 records)

ROARMAP (Registry of Open Access Repository Material Archiving Policies)

Register your Institutional Policy in ROARMAP also register your Institutional Repository in ROAR





**Mandates: World Over** 

Summary By Type			
27	INSTITUTIONAL Mandates	1	Proposed INSTITUTION AL Mandate(s)
4	DEPARTMENTAL Mandates	4	Proposed MULTI- INSTITUTION AL Mandates
30	FUNDER Mandates	5	Proposed FUNDER Mandates
61 Policy Details	TOTAL Mandates	10	TOTAL Proposed Mandates

**Mandates**: India

#### Total:3

#### INSTITUTIONAL Mandates - 2

- → National Institute of Technology, Rourkela (http://dspace.nitrkl.ac.in/dspace)
- →Bharathidasan (University (http://dspace.bdu.ac.in/)

#### Proposed Funder Mandate

National Knowledge

# Policy Details

- Ohttp://www.eprints.org/openac cess/policysignup/fullinfo.php?i nst=National%2oInstitute%2oof %2oTechnology%2C%2oRourkel
  - Ohttp://www.aprints.org/opena ccess/policysignup/fullinfo.php ?inst=Bharathidasan%2oUniver/ sity%2o

http://www.eprints.org/openaccess/policysignup/

#### Directory of Open Access Journals: http://www.doaj.org/

- Service covers free, full text, quality controlled scientific and scholarly journals (more or less) cover all subjects and languages.
- Aim to increase the visibility and ease of use of open access scientific and scholarly journals thereby promoting their increased usage and impact

As on 24.01,200

Total 1270

Online 26

3833 journals 🔃

1358 journals searchable at article

level.

250824 articles included in the

DOAJ service

#### **Open Access Journal**:

We define open access journals as journals that use a funding model that does not charge readers or their institutions for access.

From the BOAI definition [1] of "open access" we take the right of users to "read, download, copy, distribute, print, search, or link to the full texts of these articles" as mandatory for a journal to be included in the directory

## Open Access to Research Countries:95 http://www.doaj.org/doaj?func=byCountry

#### DOAJ by country

#	Country	Number of journals added into DOAJ						Total number of journals in DOAJ									
#		2002	2003	2004	2005	2006	2007	2008	2009	2002	2003	2004	2005	2006	2007	2008	2009
1	United States	20	217	<u>98</u>	<u>97</u>	<u>73</u>	113	210	Z	20	237	<u>335</u>	<u>432</u>	<u>505</u>	<u>618</u>	<u>828</u>	<u>835</u>
2	Brazil	0	8	118	<u>48</u>	<u>53</u>	61	74	2	0	<u>8</u>	<u>126</u>	<u>174</u>	227	288	<u>362</u>	<u>364</u>
3	United Kingdom	<u>3</u>	117	<u>47</u>	<u>43</u>	<u>43</u>	<u>33</u>		2	<u>3</u>	<u>120</u>	<u>167</u>	<u>210</u>	<u>253</u>	<u>286</u>	<u>321</u>	<u>323</u>
4	Spain	0	<u>5</u>	21	<u>63</u>	<u>53</u>	27	<u>58</u>	2	0	<u>5</u>	<u>26</u>	<u>89</u>	142	<u>169</u>	227	229
5	Germany	0	12	<u>19</u>	<u>38</u>	<u>23</u>	30	<u>25</u>	0	0	<u>12</u>	<u>31</u>	<u>69</u>	<u>92</u>	122	<u>147</u>	<u>147</u>
6	Canada	0	<u>28</u>	<u>13</u>	10	<u>17</u>	<u>16</u>	<u>25</u>	0	0	<u>28</u>	<u>41</u>	<u>51</u>	<u>68</u>	84	109	109
7	India	0	<u>16</u>	20	<u>15</u>	<u>18</u>	21	<u>17</u>	0	0	<u>16</u>	<u>36</u>	<u>51</u>	<u>69</u>	<u>90</u>	<u>107</u>	<u>107</u>
8	Turkey	0	4	9	<u>25</u>	<u>13</u>	27	<u>25</u>	0	0	4	<u>13</u>	<u>38</u>	<u>51</u>	<u>78</u>	103	103
9	Japan	2	21	<u>45</u>	<u>23</u>	<u>3</u>	0	<u>3</u>	0	2	<u>23</u>	<u>68</u>	<u>91</u>	94	94	<u>97</u>	<u>97</u>
10	Chile	0	<u>3</u>	41	19	<u>13</u>	<u> 7</u>	<u>13</u>	0	0	<u>3</u>	<u>44</u>	<u>63</u>	<u>76</u>	<u>83</u>	<u>96</u>	<u>96</u>
	France	0	11	6	22	<u>13</u>	10	<u>19</u>	0	0	<u>11</u>	<u>17</u>	<u>39</u>	<u>52</u>	<u>62</u>	<u>81</u>	<u>81</u>
	Australia	0	<u>19</u>	<u>16</u>	14	8	10	10	0	0	<u>19</u>	<u>35</u>	<u>49</u>	<u>57</u>	<u>67</u>	77	<u>77</u>
	Mexico	0	<u>1</u>	<u>5</u>	<u>23</u>	<u>20</u>	<u>13</u>	<u>14</u>	0	0	1	<u>6</u>	<u>29</u>	<u>49</u>	<u>62</u>	<u>76</u>	<u>76</u>
	Italy	0	4	10	<u>18</u>	<u>18</u>	<u>13</u>		0	0	4	<u>14</u>	<u>32</u>	<u>50</u>	<u>63</u>	<u>75</u>	<u>75</u>
	Venezuela	0	<u>3</u>	<u>36</u>	<u>6</u>	<u>17</u>	<u>3</u>	Z	0	0	<u>3</u>	<u>39</u>	<u>45</u>	<u>62</u>	<u>65</u>	<u>72</u>	<u>72</u>
	Poland	0	10	4	10	11	Z	24	<u>1</u>	0	<u>10</u>	<u>14</u>	<u>24</u>	<u>35</u>	<u>42</u>	<u>66</u>	<u>67</u>
	Colombia	0	2	2	<u>5</u>	<u>19</u>	<u>19</u>		0	0	2	4	9	<u>28</u>	<u>47</u>	<u>65</u>	<u>65</u>
18	Croatia	0	4	<u>5</u>	4	4	30	<u>15</u>	0	0	4	9	<u>13</u>	<u>17</u>	<u>47</u>	<u>62</u>	<u>62</u>
19	Argentina	0	0	1	<u>10</u>	11	<u>17</u>	<u>15</u>	0	0	0	<u>1</u>	<u>11</u>	22	<u>39</u>	<u>54</u>	<u>54</u>
20	New Zealand	0	4	2	Z	4	<u>12</u>	<u>17</u>	0	0	4	<u>6</u>	<u>13</u>	<u>17</u>	<u>29</u>	<u>46</u>	<u>46</u>
21	Switzerland	0	9	<u>5</u>	Z	<u>3</u>	2	<u>19</u>	0	0	9	<u>14</u>	<u>21</u>	24	<u>26</u>	<u>45</u>	<u>45</u>
22	Pakistan	0	0	3	<u>15</u>	4	11	10	0	0	0	3	<u>18</u>	22	<u>33</u>	<u>43</u>	<u>43</u>
23	Iran	0	0	0	<u>6</u>	Z	<u>14</u>	11	1	0	0	0	<u>6</u>	<u>13</u>	27	<u>38</u>	<u>39</u>
24	Romania	0	<u>5</u>	1	0	Z	<u>5</u>	12	<u>6</u>	0	<u>5</u>	<u>6</u>	<u>6</u>	<u>13</u>	<u>18</u>	<u>30</u>	<u>36</u>
25	Austria	0	1	0	19	4	4		0	0	1	<u>1</u>	<u>20</u>	24	<u>28</u>	<u>36</u>	<u>36</u>
26	Netherlands	<u>1</u>	<u>6</u>	<u>1</u>	<u>6</u>	<u>5</u>	4	<u>5</u>	0	1	7	8	<u>14</u>	<u>19</u>	<u>23</u>	<u>28</u>	<u>28</u>

# Further OA to Research Why OA: Some Apprehensions & Impediments

# CopyRIGHT

'A bundle of exclusive rights which the law gives to authors and creators to control certain activities relating to the use, dissemination and public performance of their original

Works protected by copyright
Copyright ownership
Copyright can be shared/belong to a 3rd party:Contracts/Licences

- >Strict conditions
- ➤ Contract law overrides copyright law
- ➤ Shrink-wrap and click-wrap contracts
- ➤E-databases for paid subscribers only
- ➤ Complete control over works

# **Authors' Rights**

- To reproduce the work in any manner or form
- To publish the work if it has not been published before
- To perform the work in public
- To broadcast the work
- To cause the work to be transmitted in a diffusion service
- To make an adaptation of the work

Authors should not sign away all their rights

Author's Rights and Addendum
(SPARC) 
<a href="http://www.arl.org/sparc/author/">http://www.arl.org/</a>
<a href="mailto:sparc/author/">sparc/author/</a>.

Authors retain their moral rights

# **Users' Rights?**

- ♣ NO user rights only limitations & exceptions
- ♣ International agreements allow legal flexibilities
- ♣ Copyright Act, Section 12 "Fair dealing"
- ♣ Copyright Act, Section 13 (Regulations) for education, libraries & archives
- ♣ Analogue = use restricted
- ♣ Digital = access & use restricted

# **Copyright clearances**

When applying for permission, obtain the following rights:-

- ☑ To reproduce whole works & convert to digital
- ☑ To create a modified or derivative work
- ☑ To display the work electronically
- ☑ To download it onto CD, DVD or other device
- ☑ To make the work accessible without technological
- ☑ restrictions to users (or to 'unlock' such restrictions)
- ☑ To have permission in perpetuity to allow migration, conversion and/or adaptation as technologies change



#### Creative Commons

• Free legal and technical tools to facilitate access to digital content (<u>www.creativecommons.org</u>)

#### **Licences**:

- Attribution (standard in all CC licences)
- Non-Commercial
- – No Derivative works
- O Share Alike

New! CC+ for commercial

## Science Commons

- Focus areas licensing, publishing & data
- Science Commons (www.sciencecommons.org) plans -
  - to evaluate & draft open, voluntary & interoperable legal solutions for databases – 'some rights reserved'
  - to provide standard contracts and technologies for institutional-sharing and archiving

# Viability of "Pushing OA" in Developing Countries?

#### **Buidling Argument & prompting Discussion**

- India on the Big Frame
- Network infrastructure
  - Cannot speak of OA in developing countries, without also invoking bandwidth debate
  - Any OA Advocacy effort must add its voice to work being done in the overall National Research and Education arena
  - Expensive bandwidth <u>does not imply</u> that we should hold off on OA to content (while waiting to have cheaper bandwidth)
  - For even greater participation in OA, the "OA content" folks need to add their voices to the "we need affordable bandwidth now" arena

# **Building case for India**

Scholarly Content Actors

**Publications** 

# R&D Infrastructure Resources: Institutions Manpower

# R&D Infrastructure

**Resources:** Institutions, Manpower, and Publications

**R&D Institutions:** National Orgns, State Institutions, Universities, Private Secto

3,000



Universities

**Deemed Universities** 

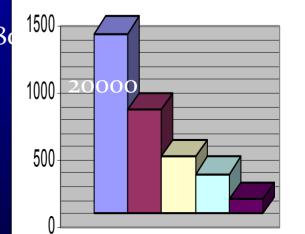
**Medical Colleges** 

**Engineering Colleges** 

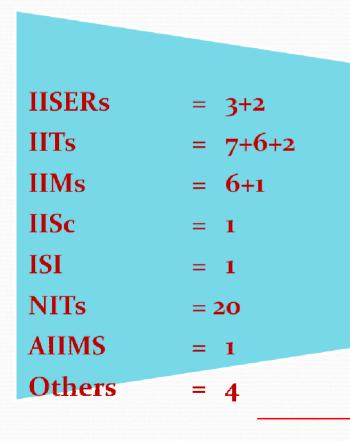
Colleges







Source: (R&D directory, NSTMIS, DST, 2001)



PGIMER Chandigarh,

Dakshina Bharat Hindi
Prachar Sabha
Thyagarayanagar, Chennai,

Sree Chitra Tirunal Institute

Sree Chitra Tirunal Institute for Medical Sciences and Technology Thiruvananthapuram,

NIPER Mohali

Dissemation alion

Ist Indian Journal Calcutta Gazette

Published 1784

Frequency: weekly (in 11 vols.)

Price(s):INR 206.50

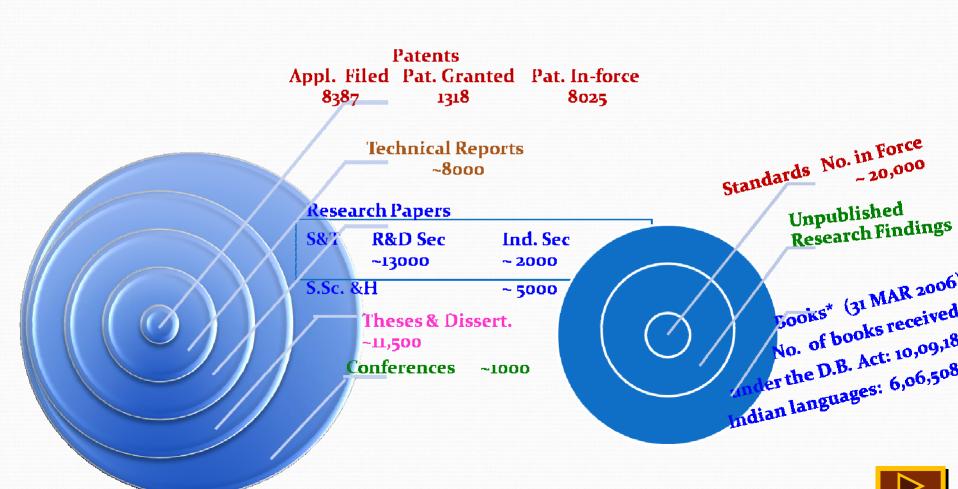
Total Indian Journals ~12,000 [AL]

~ 2, 000 core scientific journals

~ 4,723

[Source: ULRICH'S Periodicals Directory - CD Version, R.R. Bowker, Spring 2004]

# **Scientific Information Dissemination**



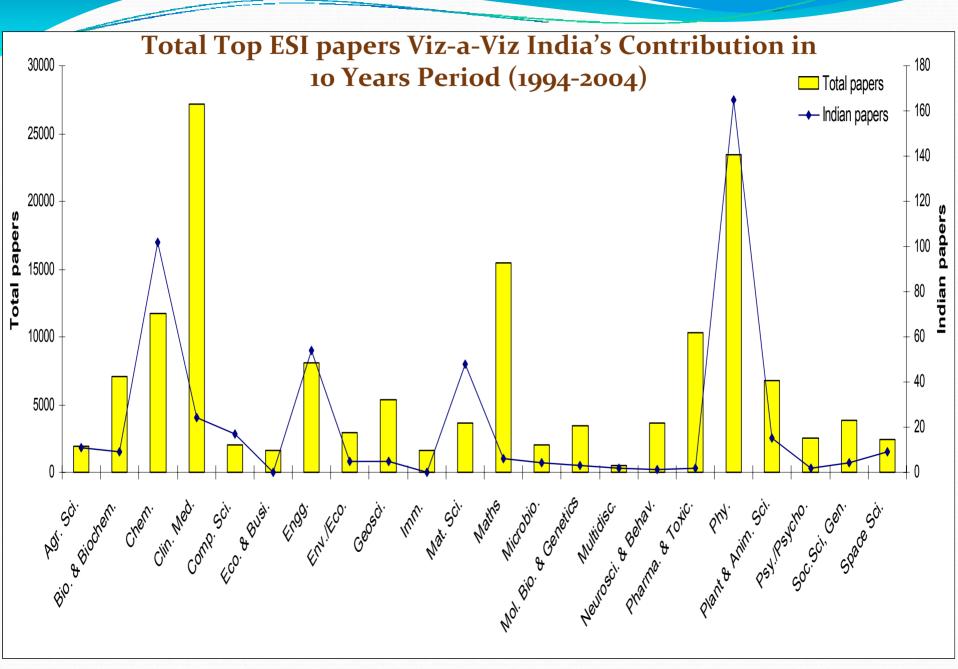
#### Country Rankings among All Countries and All Fields (10 Year Rankings – Top 3 Countries Viz-a-Viz India)

Country	Pap	ers		Citations				
	Total		Rank*	Total	Rank*			
USA	2,758,037	7	1	34,345,536	1			
Japan	2,758,037 699,840		2	4,922,466	4			
Germany	632,261		3	5,802,656	3			
India	184,086		13	595,627	21			

Source: ESI (January 1, 1994 - August 31, 2004

<sup>\*</sup>Rank Among ALL Countries in terms of number of papers/Citations

# Scientific Information Dissemination...



# Important Indicators

- →About 100 billion rupees being spent annually on R&D
- Investment in R&D > 1 % of GDP
- →Contributing ~ 3 % of the world's publication output
- ◆India has over 2000 core scientific journals
- Number of S&T personnel has been increasing @6%/year\*



<sup>\*</sup>Pursuit and Promotion of Science: The Indian Experience. Indian National Science Academy, New Delhi (p74). 2001

# Open Access Initiatives

- →Institutional Repositories :
  - →Over 40 IR; OSS; multivariate content streams
- →Open Access Journals
- →Metadata Harvesting Services
- →Open Courseware
- →Digital Library Initiatives
- **→**Digital Archiving and Information Dissemination

Should we be satisfies with what we have achieved so far Not enough

What Should be done then?

#### **Open Access Journals**

Many leading journals published in India are already open access

- Academies showed the way & set the ball rolling
- Several organisations followed
- 100 (approx) OA journals. Most of these hybrid print + online
  - While print is against subscription
  - No Indian journal charges a fee from the authors for publishing papers,
- NIC, GOI & some private publishers publish OA jls on behalf of about 75 societies.



#### **India's Scholarly Communication Problems**

- ◆India's scholarship has ancient roots and a glorious heritage. NobodyArgues that
  ◆India's top scientific institutions have world in
- ▶India's top scientific institutions have worldwide reputations for excellence and the country's historic contribution to cultural and scientific advances are recognised by all.
- →Yet due to the way the scholarly communication system overall has developed in that time,
- India's academic output has suffered from low visibility and poor dissemination.
- At the moment, global visibility is good for Indian articles that are published in the best 'western' journals and
- In Indian journals indexed by the major abstracting/indexing services,
- Moreover, for Indian articles deposited in open access collections in India or those that are co-authored with scientists in other parts of the world who have deposited them in Open Access repositories outside the continent, visibility is maximal.
- This still leaves a lot of Indian output most of it in fact virtually invisible to the rest of the world.
- **⊚**India's investment intellectual, effort and cash can never hope to gain a good return this way.

#### How Open Access can help resolve these problems

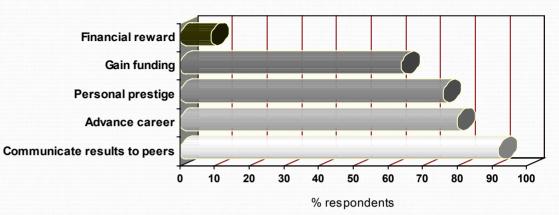
- □Open Access provides the means to maximise the visibility, and thus the uptake and use, of Indian research outputs.
- Authors & Scholars: Useful for not only Scholars but more so for Authors
- Funders: It is because Open Access is so much in the interest of research funders and employers that an increasing number of them around the world are introducing Open Access policies that require their funded researchers to provide
- ■India spends perhaps 170 billion rupees of public money annually on science and technology research.
- ■The return on this investment must be maximised:

#### We are building a Case here:

- ■Open Access has been demonstrated to increase citations to published research on average by over50% and
- •since only 15% of research is available on this basis, this means that the remaining 85% stays hidden away in subscription-based journals that only a minority of libraries purchase, largely unread and unused.
- ■That 85% could be getting much better visibility and use if it were all Open Access.
- ■sEvidence suggests that the average increase in citations for Open Access research is 50%. In other words, India would have to spend a further 70 billion rupees on research to get the same impact on the world stage as it could currently get for no more money by making all of the country's research output Open Access.

## **Providing Open Access in India**

Primary aim of researchers when publishing their work, which is to communicate their results to their peers



Reasons researchers consider 'very important' when publishing their work (from Swan and Brown, 2005)

#### Impediments to Open Access in India

- •Although Open Access is clearly in the interests of the research community •From India's top research administrators through the universities and research institutions to the individual scholar – there is a diffidence towards Open Access that needs to be swept aside.
- Partly, the diffidence is based upon a lack of awareness of the issues and advantages of Open Access. There must be more effort put into explaining the concept and how to achieve it for scholars, administrators and funders.
- •And policy-making by research funders and research-based institutions is not only critical in informing scholars: it is critical in another sense, for without such policies the level of provision of Open Access is very poor.

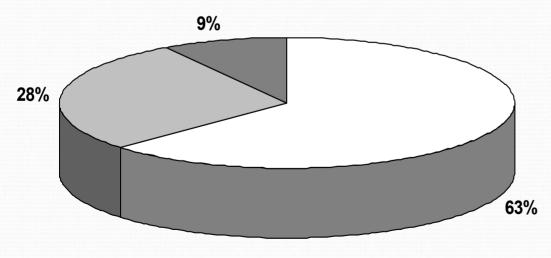
  Alma Swan DJLIT 2008

# Providing Open Access in India

#### Concerns & Issues

#### Author concerns about Open Access

- Copyright restrictions imposed by their publishers.
- ♣OA publishers do not have any copyright restrictions : they allow the copyright to remain with the author & permit the author to do anything
- Journal permissions for selfarchiving
- ♣Authors can check these permission policies by going to the resources maintained by SHERPA

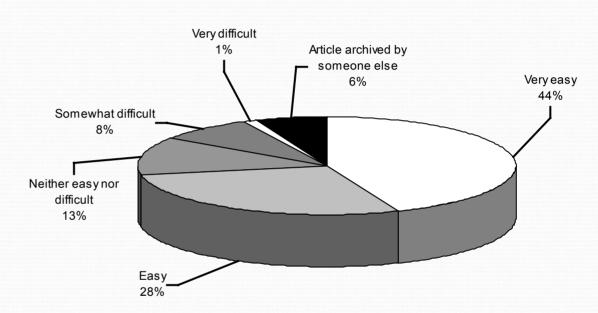


- ☐ Permit postprint archiving
- □ Permit preprint archiving

■ Permit neither (yet)

# Second, researchers worry about how easy it might be to deposit an article in their repository

Easy & Simple

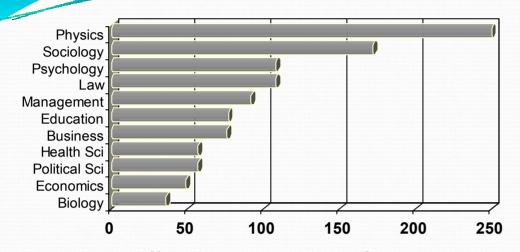


Ease of depositing an article in an Open Access repository

#### **Encouraging Open Access**

worries that authors have about Open Access. Since they are unfounded, authors must be reassured about them.

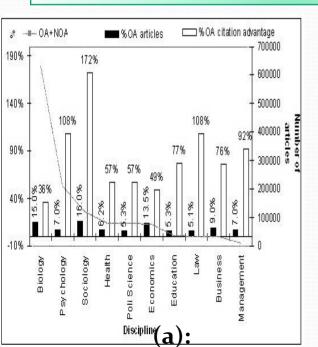
Making authors aware of the increased visibility, usage and impact their work will receive via Open Access is crucial.

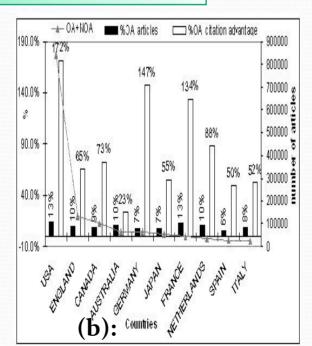


The data emphasise how far and how fast we are moving towards a new world where impact is measured at author level. Up until now, authors have remained rather obsessed by the metric known as Journal Impact Factor (JIF).

% increase in citations with Open Access

#### Increase in citations as a result of Open Access





- (a): Open Access Citation Impact Advantage by Discipline.
- (b): Open Access Citation Impact Advantage by Country.

#### Finally - Mandating is the MANTRA to OA Success in India

- ☑It is important to emphasise that **only mandatory policies work well**.
- ☑Policies that just encourage or even request authors to make their work Open Access do not result in a sizeable level of compliance.

#### **Promoting and Mandating OA**

**Typical examples** 

Mention May be made of two important Initiatives

- ≽INSA -on April 26<sup>th</sup> organised brainstorming session on Open Access, FOSS and Copyright Law for scholarly communications and literary work with a view to :
- ▶Draft the recommendations for changes in Policy and law to the Government of India to be tune with changing technologies in the new information era and the international developments.
- ➡Governmental Initiatives to Improve Access to Knowledge
- ◆Copyright law for scholarly communication and literary work : Copyright Period

- > Meanwhile, the National Knowledge Commission has recommended mandating open access to all publicly funded research
- ➤ Bangalore Statement (2006) The outcome was the drawing up of an optimally-worded Open Access policy for institutions and funders to use.
  - ➤ The implementation of this Commitment is exactly what India needs now, before she loses out still further in the race for visibility and impact.

http://www.ncsi.iisc.ernet.in/OAworkshop2006/pdfs/NationalOAPolicyDCs.pdf

➤ Groups like the Indian National Science Academy / Indian Academy of Sciences have also been looking deeper at the potential of OA

**QIIT - Coming virtually Home : 400 courses across 5 subjects** 

Now that we have the tools to make global communication a reality, the research community really should embrace them.

# Action? Where to focus

#### Stimulate

- E-Prints
  - Preprints,
  - Articles
  - Postprints,
  - working papers, etc
- Technical Reports
- Conference Papers
- Theses/Dissertations
- Datasets
  - → e.g. statistical, geospatial, scientific
- Non-Institutional Research
  - Scholar in the Garden Shed'

Others (In fact whatever are the materials that reflect the core competencies of the institution)

#### Address Issues that result in Problems and Challenges at the right Ernest

- **♦**Awareness & Availability of IR
- **→**Copyright & IPR Issues
- **▶**Institutional policy and IR Management
- **▶**Support and Sustainability
- **▶**Mandate OA

#### OA Advocacy in India: Advocacy Programms (existing) bringing change

**▶**More Concerted efforts Needed

#### **Future Endeavours**

- →Academics to collaborate to create cream of Indian Scholarly content
- ▶And strive to place all papers by R&D community, on an open access archive
- **▶**Though time consuming but achievable
- ▶Promote young scientists and researchers by promoting their R& D achievements through a Indian Knowledge portal

- Support and promote access to
- **▶**scientific information by creating
  - •Indigenous digital databases
  - E-journals
  - Institutional Repositories
  - Digital Libraries
- **▶**Facilitate access to digital resources t
- ▶Protect 'fair dealing' in digital er
- ▶Provide legal 'keys' to 'up!
- Provide access to pv¹
- WE NEED TO CREATE THE ENVIRONMENT IN WHICH OPEN ACCES WILL BECOME THE NORM FOR DISTRIBUTING RESEARCH ➡High Potentia\* **A**:Express interest in collaborating with other \_a in your country . North-south and sout
- **→**Man



Closed access has made Academic (Research)

Environment stuffy

Let us open windows, hearts and minds to open access

To Breathe Fresh

We are Open to Your Suggestions on OA

