



The Changing Role of Librarians in Higher Education

Raja V

Scientist C (Computer Science)

An IUC of University Grants Commission

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S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
1	SWAYAM : Massive Open Online Courses 	Earn credit through online courses	<ul style="list-style-type: none"> - Encourage your extraordinary faculty to develop online courses - Accept credits awarded under SWAYAM - Form SWAYAM local chapters
2	SWAYAMPARBHA : View digital courses on TV	Watch high quality educational programs 24*7	Provide facility for viewing SWAYAMPARBHA content
Digital content: access journals and e-books			
1	National Digital Library : e-content 	Access e-content on multiple disciplines	<ul style="list-style-type: none"> - Get your E-content listed - Form NDL Club
2	e-PG Pathshala : Gateway for e-books upto PG	Get free books and curriculum-based e-content	Host e-books
3	Shodhganga : A reservoir of Indian Theses	Access Research Theses of scholars of Indian Institutes	Get research theses of your scholars to get listed on Shodhganga
4	e-ShodhSindhu : e-journals	Get access to full text e-resources	Get access to full-text e-resources
Accelerated Hands on learning			
1	e-Yantra : Engineering for better tomorrow 	Get hands on experience on embedded systems	Create e-Yantra labs for training in embedded systems in collaboration with IIT Bombay
2	FOSSEE : Free/Libre and Open Source Software for Education	- Access and volunteer for the use of open source software	Run labs in open source

Table 2 Distribution of weightages across Key Indicators (KIs)

Criteria	Key Indicators (KIs)	Universities	Autonomous Colleges	Affiliated/Constituent Colleges	
				UG	PG
4. Infrastructure and Learning Resources	4.1 Physical Facilities	30	30	30	30
	4.2 Library as a Learning Resource	20	20	20	20
	4.3 IT Infrastructure	30	30	30	30
	4.4 Maintenance of Campus Infrastructure	20	20	20	20
	Total		100	100	100



<p>3.4.8</p> <p>Q_nM</p>	<p><i>Bibliometrics of the publications during the last five years based on average Citation Index in Scopus/ Web of Science/PubMed</i></p> <p>Data Requirements for last five years:</p> <ul style="list-style-type: none"> • Title of the paper • Name of the author • Title of the journal • Year of publication 	<p>15</p>
	<p>Formula:</p> $\frac{0.50 \times \text{Total number of Citation in SCOPUS in five years} + 0.50 \times \text{Total number of Citation in Web of Science in five years}}{0.50 \times \text{Total number of Publication in SCOPUS in five years} + 0.50 \times \text{Total number of Publication in Web of Science in five years}}$ <p>File Description (Upload)</p> <ul style="list-style-type: none"> • Any additional information • Bibliometrics of the publications during the last five years <p><i>* The Data obtained from inflibnet will be used for the purpose of calculation of scores.</i></p>	
<p>3.4.9</p> <p>Q_nM</p>	<p><i>Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-Index of the University</i></p> <p>Data Requirements for last five years:</p> <ul style="list-style-type: none"> • Title of the paper • Name of the author • Title of the journal • Year of publication • H index <p>Formula:</p> $\frac{\text{h - Index of Scopus} + \text{h - index of Web of Science in last five years}}{2}$	<p>15</p>

Key Indicator - 4.2 Library as a Learning Resource (20)

Metric No.		Weightage												
4.2.1	<p>Library is automated using Integrated Library Management System (ILMS) and has digitisation facility</p> <p>Q_aM Describe the implementation of the automation of the Library and the digitization facility available and used in maximum of 500 words</p> <p>File Description</p> <ul style="list-style-type: none"> • Upload any additional information • Paste link for additional information 	4												
4.2.2	<p>Institution has subscription for e-Library resources</p> <p>Q_aM Library has regular subscription for the following:</p> <ol style="list-style-type: none"> 1. e – journals 2. e-books 3. e-ShodhSindhu 4. Shodhganga 5. Databases <p>Options:</p> <p>A. Any 4 or all of the above B. Any 3 of the above C. Any 2 of the above D. Any 1 of the above E. None of the above</p> <p>File Description</p> <ul style="list-style-type: none"> • Upload any additional information • Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga Membership etc.. (Data Template) 	6												
4.2.3	<p>Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)</p> <p>Q_aM</p> <p>4.2.3.1: Annual expenditure for purchase of books and journals year wise during the last five years (INR in lakhs)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Year</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>INR in lakhs</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Data Requirement for last five years: (As per Data Template)</p> <ul style="list-style-type: none"> • Expenditure on the purchase of books • Expenditure on the purchase of journals in ith year • Year of expenditure: <p>Formula:</p> $\frac{1}{5} \times \sum_{i=1}^5 \text{Expd}_i$ <p>Where: Expd_i = Expenditure in rupees on purchase of books and journals in ith year</p>	Year						INR in lakhs						5
Year														
INR in lakhs														

Manual for Universities

	<p>File Description (Upload)</p> <ul style="list-style-type: none"> Any additional information Audited statements of accounts <p>Details of annual expenditure for purchase of books and journals during the last five years (Data Template as of 4.2.2)</p>	
4.2.4 Q _n M	<p><i>Percentage per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)</i></p> <p>4.2.4.1: Number of teachers and students using library per day over last one year</p> <p>Data Requirements:</p> <ul style="list-style-type: none"> Upload last page of accession register details per day login/online users of library Number of users using library through e-access Number of physical users accessing library <p>Formula:</p> $\frac{\text{Number of teachers and students using library per day}}{\text{Total number of teachers and students}} \times 100$ <p>File Description (Upload)</p> <ul style="list-style-type: none"> Any additional information Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents) 	5

**Summary of Ranking Parameters and Weightages- 2023
(Overall)**

Sr. No.	Parameter	Marks	Weightage
1	Teaching, Learning & Resources	100	0.30
2	Research and Professional Practice	100	0.30
3	Graduation Outcomes	100	0.20
4	Outreach and Inclusivity	100	0.10
5	Perception	100	0.10

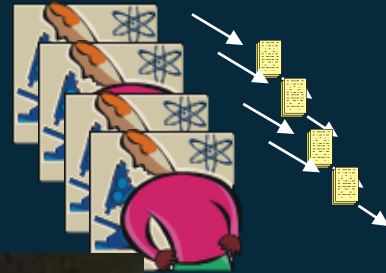
2.	Research and Professional Practice (RP) Ranking weight: 0.30	100
	<ul style="list-style-type: none"> A. Combined metric for Publications (PU): 35 marks B. Combined metric for Quality of Publications (QP): 35 marks C. IPR and Patents: Published and Granted (IPR): 15 marks D. Footprint of Projects and Professional Practice (FPPP): 15 marks 	



S.No.	Parameters	Marks
1.	Teaching, Learning & Resources (TLR) Ranking weight: 0.30	100
	A. Student Strength including Doctoral Students(SS): 20 marks B. Faculty-student ratio with emphasis on permanent faculty (FSR): 25 marks C. Combined metric for Faculty with PhD (or equivalent) and Experience (FQE): 20 marks D. Financial Resources and their Utilisation (FRU): 20 marks E. Online Education: Online Completion of Syllabus & Exams and Swayam (OE): 15 marks	
2.	Research and Professional Practice (RP) Ranking weight: 0.30	100
	A. Combined metric for Publications (PU): 35 marks B. Combined metric for Quality of Publications (QP): 35 marks C. IPR and Patents: Published and Granted (IPR): 15 marks D. Footprint of Projects and Professional Practice (FPPP): 15 marks	
3.	Graduation Outcomes (GO) Ranking weight: 0.20	100
	A. Metric for University Examinations(GUE): 60 marks B. Metric for Number of Ph.D. Students Graduated (GPHD): 40 marks	
4.	Outreach and Inclusivity (OI) Ranking weight: 0.10	100
	A. Percentage of Students from Other States/Countries (Region Diversity RD): 30 marks B. Percentage of Women (Women Diversity WD): 30 marks C. Economically and Socially Challenged Students (ESCS): 20 marks D. Facilities for Physically Challenged Students (PCS): 20 marks	
5.	Perception (PR)* Ranking weight: 0.10	100
	A. Peer Perception: Academic Peers and Employers (PR): 100 marks	

*However for universities in the PR parameter, 70% weight was given to Peer Perception and 30% to Accreditation.

This Strategy may help you to increase your citation



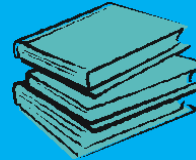
Limited Access: Limited Research Impact

Impact cycle begins:
Research is done

Researchers write pre-refereeing
"Pre-Print"



Submitted to Journal



Pre-Print reviewed by Peer Experts – "Peer-Review"



Pre-Print revised by article's Authors

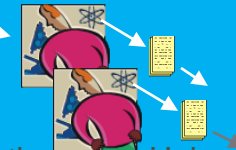
Refereed "Post-Print" Accepted, Certified, Published by Journal



Researchers can access the Post-Print **if their institutional has a subscription to the Journal**



New impact cycles:
New research builds on existing research



12-18 Months

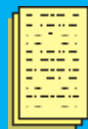
Maximized Research Access and Impact Through Self-Archiving

12-18 Months

Impact cycle begins:
Research is done



Researchers write pre-refereeing
"Pre-Print"



Pre-Print is self-archived in
Institutional's Eprint
Archive



Submitted to Journal

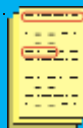


Pre-Print reviewed by Peer
Experts – "Peer-Review"



Pre-Print revised by
article's Authors

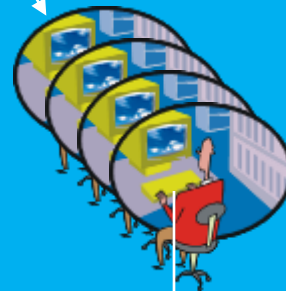
Refereed "Post-Print" Accepted,
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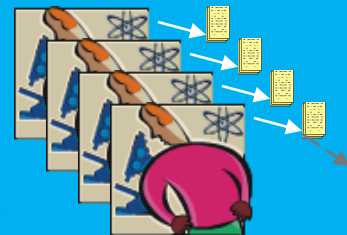
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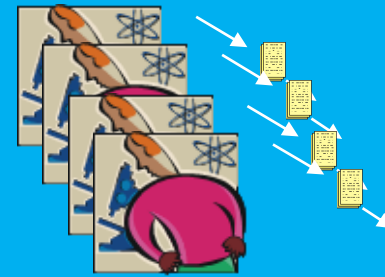
New impact cycles:
Self-archived research
impact is greater (and
faster) because
access is maximized
(and accelerated)



New impact cycles:
New research builds on
existing research



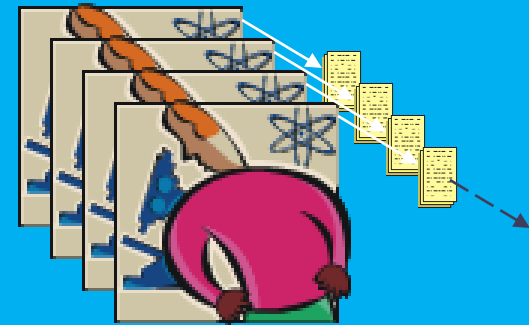
Research Impact



- I. measures the **size** of a research contribution to further research (“publish or perish”)
- II. generates further research **funding**
- III. contributes to the research **productivity** and financial support of the researcher’s **institution**
- IV. advances the researcher’s **career**
- V. promotes research **progress**

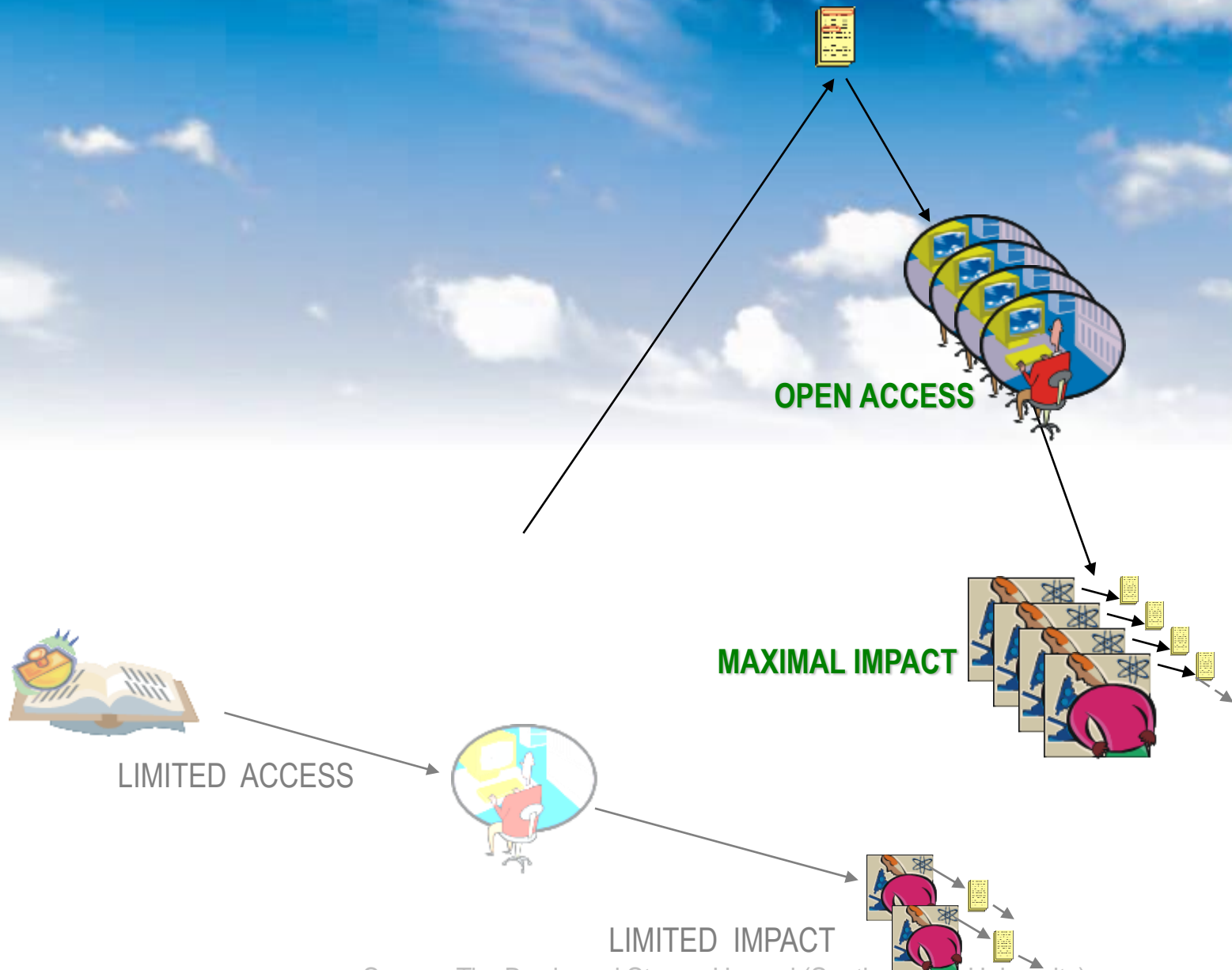
The objective of open-access is:

to maximize research
impact



by maximizing research
access





Source: Tim Brody and Stevan Harnad (Southampton University)



[Source: http://www.plos.org/](http://www.plos.org/)

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.

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409,271 Downloads

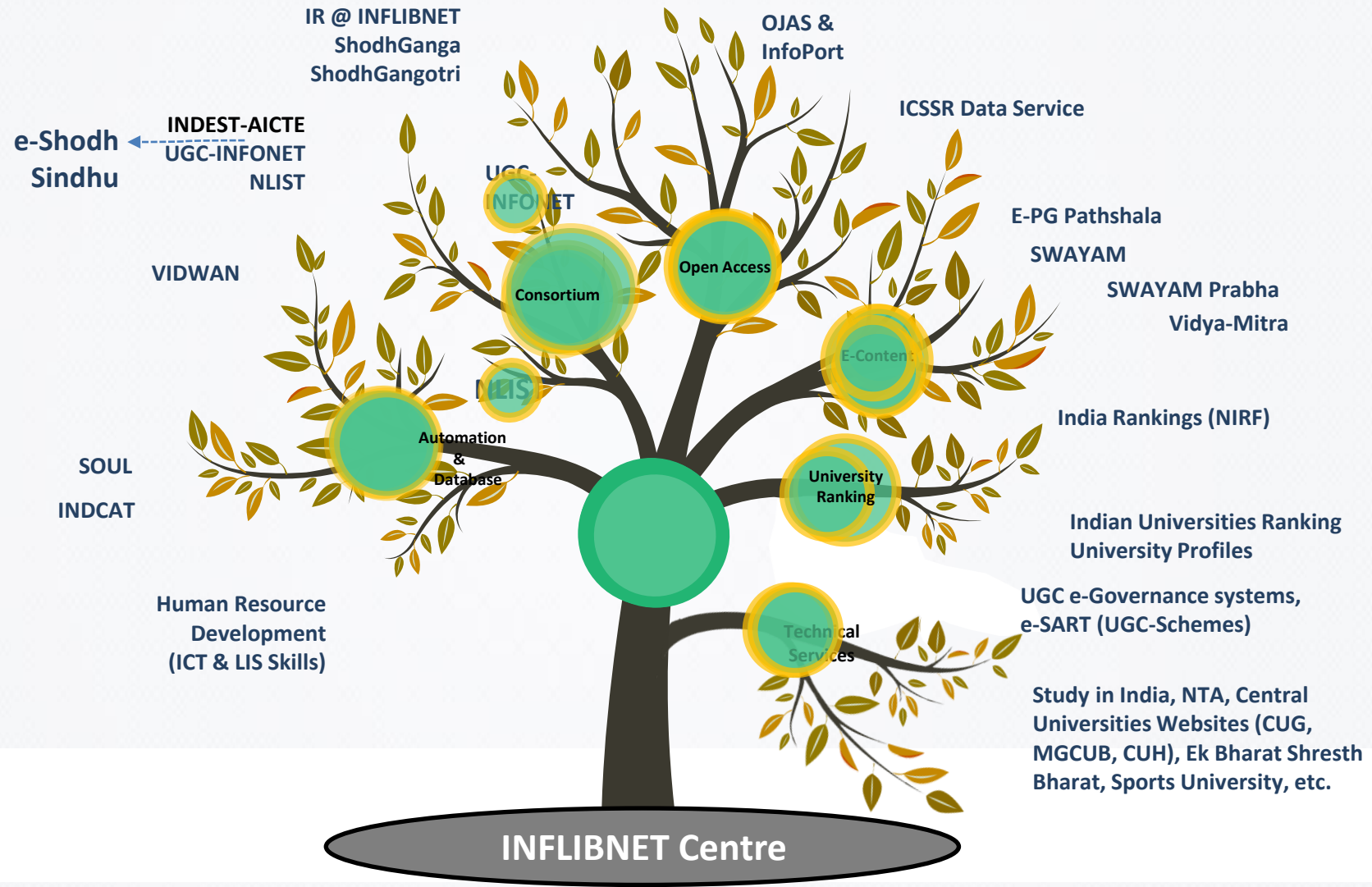


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 University of Delhi	9222	9804	7627	11267	8244	6861	7340	7756	7981	6903	7453	10005	100463
 Banaras Hindu University	7635	6076	3408	6956	8996	7422	7455	7245	7542	6259	6552	8183	83729
 Institute of Chemical Technology	6865	5941	4476	6733	5072	6572	4977	4955	4463	4175	3862	3925	62016
 Pondichery University	4929	4708	4256	4640	4571	3628	5438	5677	5787	5344	4934	4455	58367
 Jadavpur University	4263	4208	3618	4830	5100	5211	5368	4976	4759	2633	3577	5543	54086
 Madurai Kamraj	4493	5291	5821	7690	4533	4240	4948	4096	3375	2875	3004	2722	53088

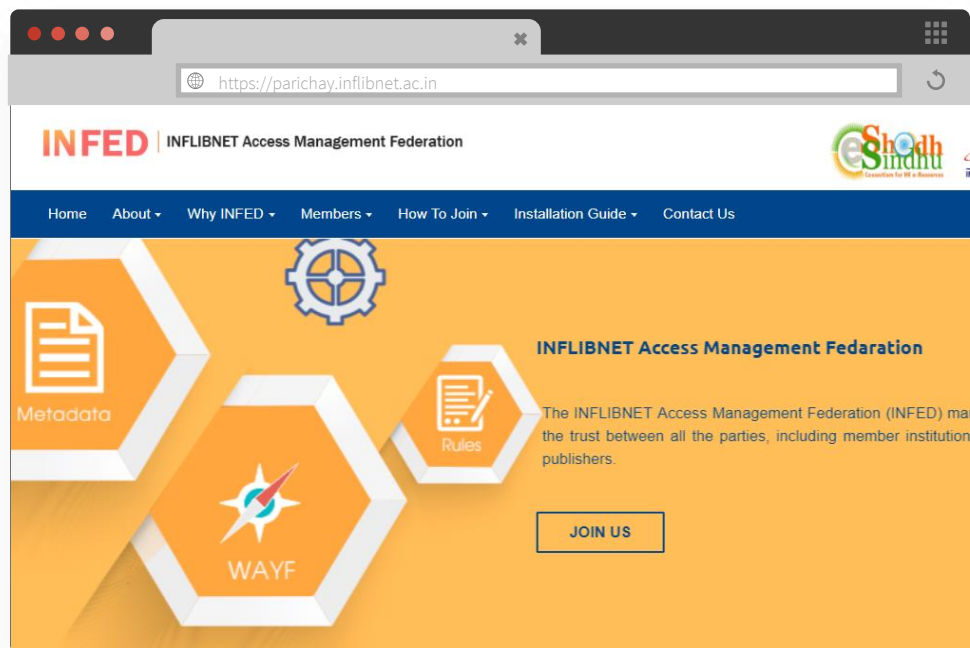
INFED

INFLIBNET Access Management Federation (INFED), the **first and only Federation in India**, that has adopted Shibboleth (a SAML based) open source software, for authenticating authorized users from colleges and universities and provide them seamless access to e-resources from anywhere, anytime. The INFLIBNET Centre, as one of its core mandates, provides access to scholarly e-resource to universities and colleges in India under e-ShodhSindhu initiative of the Ministry of Human Resource Development (MHRD).

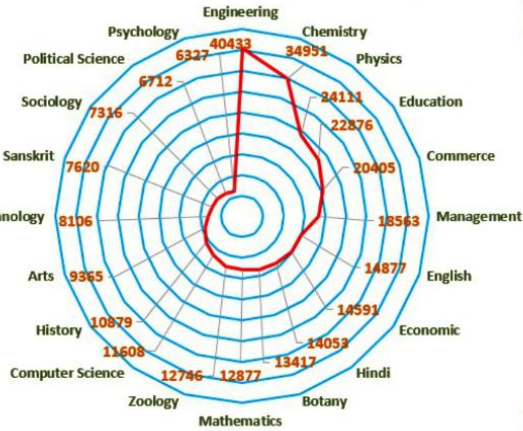
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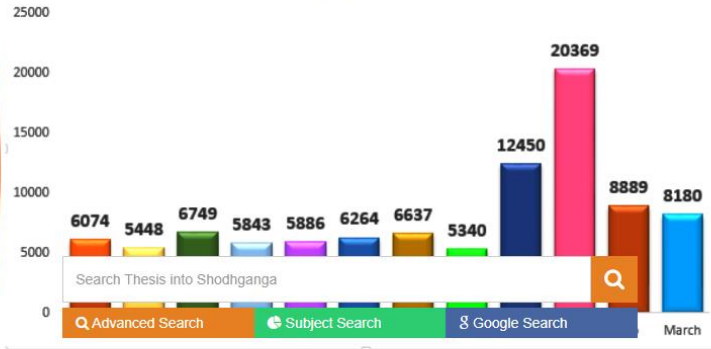
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Top 20 Subjects in Shodhganga (4.4 Lakhs Theses)



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Anna University	14520	University of Madras	14305	University of Calcutta	13815
Savitribai Phule Pune University	12281	Chhatrapati Sahuji Maharaj University	10130	Babasaheb Bhimrao Ambedkar Bihar University	9675
Aligarh Muslim University	9537	Andhra University	9052	Panjab University	8709
V. B. S. Purvanchal University	8687				

466484

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11420

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721

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822

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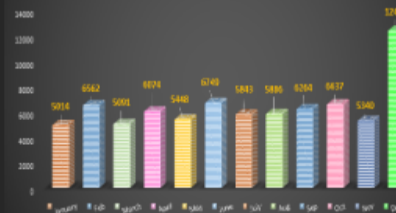
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Saturday, 21st September, 2019

STAKEHOLDERS

OBJECTIVES

FEATURES

RESOURCES

Following are the stakeholders:



RESEARCHERS

- > Profile Management
- > Knowledge Resources
- > Assistance for Literature Work
- > Resource Aggregation
- > Publications (Workshops & Conferences)
- > Reference Management
- > Interaction with Guide
- > Thesis Submission



GUIDES / SUPERVISORS

- > Dashboard
- > Profile Management
- > Work Progress Tracking
- > Interaction with Researchers
- > Knowledge Resources



UNIVERSITIES

- > Dashboard
- > Profile Management (Researcher & Guide)
- > Communication / Intimation Module among Researchers, Guides and University
- > Work Progress View
- > Report Generation



An Academic Identity and IRINS

ORCID Participation

Active Records

14,577,037

Active Integrated Systems

3,925

Countries with members

55

National Consortia

24



1,219

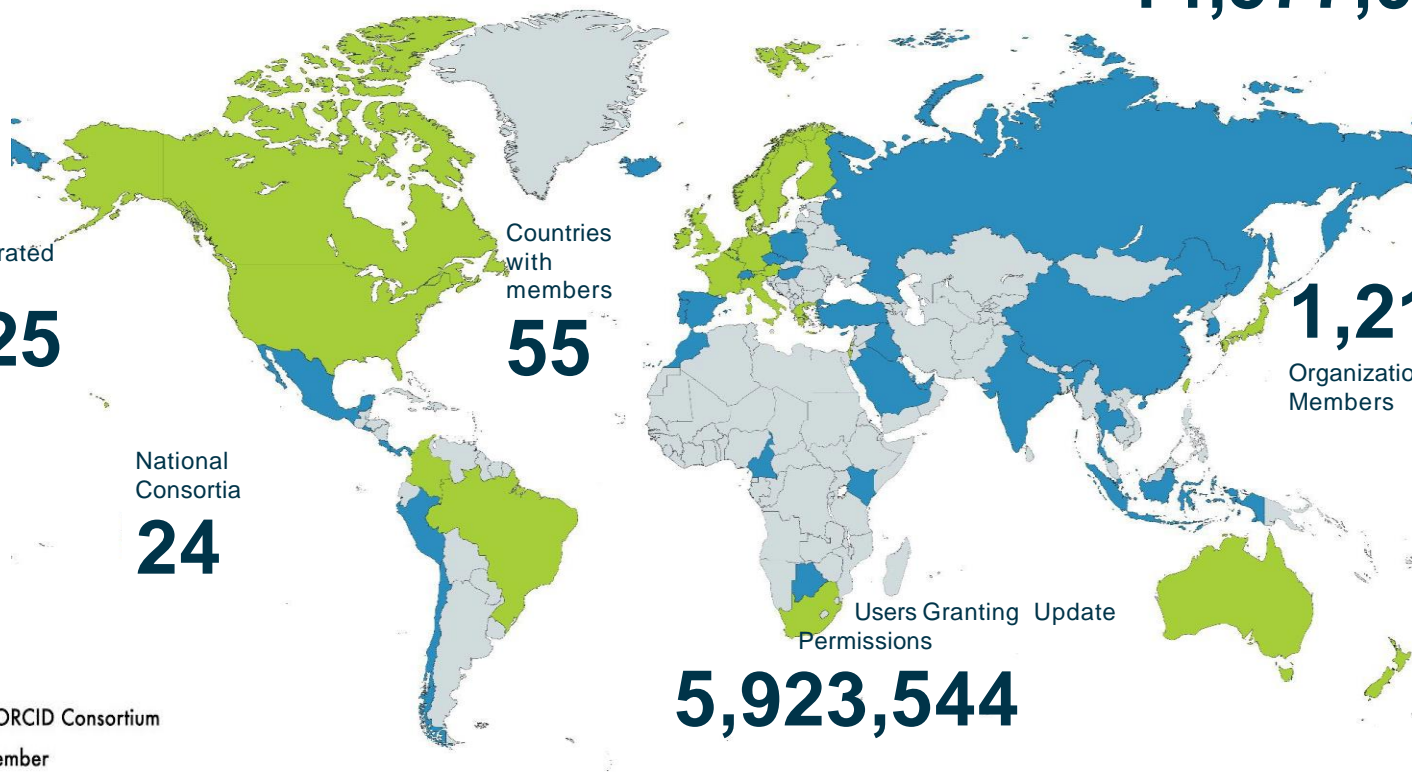
Organizational Members

Users Granting Update Permissions

5,923,544

Legend

-  National ORCID Consortium
-  ORCID member



Data integration with external Sources



Publications, Citations



Social Media Metrics



Publications



Social Media Metrics



Citations, Authors
& Affiliations



Publication Venue



Citations Metrics



Smart Citation

IRINS Data workflow



Indian Institute of Technology Madras
Scholars Profiles
The Central Library Initiative



Personal Information

CV, HR, ORCID ID

01



Publication Information



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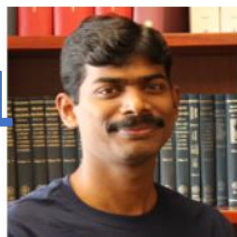
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02

03



Profile-ID : 61916

Edit Profile

Dr Pazhamalai Anbarasan
Associate Professor
Indian Institute of Technology, Madras

Expertise

Chemical Engineering
Organic synthesis

Personal Information

Dr Pazhamalai Anbarasan

Male

Department of Chemistry Indian Institute Of Technology, Madras, Tamil Nadu, India

India,Tamil Nadu,Chennai - 600036

<http://chem.iitm.ac.in/faculty/anbarasan/>

Experience

2016 - Present
Associate Professor
Indian Institute of Technology, Madras,Chennai

2011 - 2016
Assistant Professor
Indian Institute of Technology, Madras,Chennai

Qualification

2007
Ph.D
Indian Institute of Science Bangalore

Doctoral Theses Guided

2018 Transition metal catalyzed construction of c-cn and Cheteroatom bonds via c-h bond functionalization
Indian Institute of Technology Madras

2017 Synthetic approaches towards trifluoromethylated n-heterocycles and building blocks
Vinay Kumar Pandey, Indian Institute of Technology Madras

Well-defined iron catalyst for improved hydrogenation of carbon dioxide and bicarbonate

Ziebart, C. and Federse, C. and Anbarasan, P. and Jackstell, R. and Baumann, W. and Spanenberg, A. and Beller, M.

ARTICLE Journal of the American Chemical Society, Volume 134, Year 2012, Pages 20701-20704
DOI:10.1021/ja307954a

Integration of chemical catalysis with extractive fermentation to produce fuels

Anbarasan, P. and Baer, Z.C. and Sreekumar, S. and Gross, E. and Binder, J.B. and Branch, H.W. and Clark, D.S. and Dean Tsika, F.

ARTICLE Nature, Volume 491, Year 2012, Pages 235-239
DOI:10.1038/nature11594

Recent developments and perspectives in palladium-catalyzed cyanation of aryl halides: Synthesis of benzonitriles

Anbarasan, P. and Schareina, T. and Beller, M.

ARTICLE Chemical Society Reviews, Volume 40, Year 2011, Pages 5049-5067
DOI:10.1039/c1cs10004a

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ARTICLE Chemical Communications, Volume 47, Year 2011, Pages 3233-3235
DOI:10.1039/c0cc04405a

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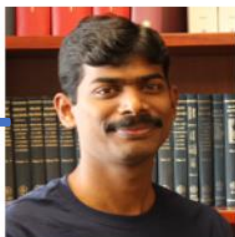
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Dr Pazhamalai Anbarasan
Associate Professor
Indian Institute of Technology, Madras

Publications 2005 - 2018



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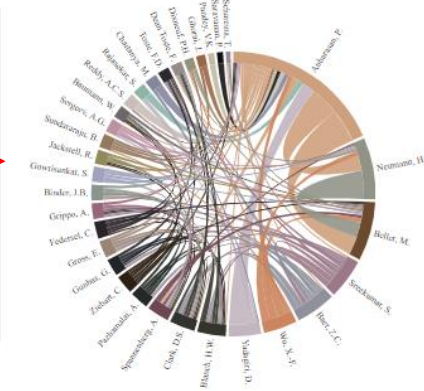
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2017 Synthetic approaches towards trifluoromethylated n-heterocycles and building blocks

Vinay Kumar Pandey, Indian Institute of Technology Madras



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04



Analytics



Well-defined iron catalyst for improved hydrogenation of carbon dioxide and bicarbonate

Ziebart, C. and Federle, C. and Anbarasan, P. and Jackstell, R. and Baumann, W. and Spannenberg, A. and Beller, M.

ARTICLE Journal of the American Chemical Society, Volume 134, Year 2012, Pages 20701-20704
DOI:10.1021/ja3079504a

200 Citations
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Integration of chemical catalysis with extractive fermentation to produce fuels

Anbarasan, P. and Baer, Z.C. and Shekumar, S. and Gross, E. and Binder, J.B. and Branch, H.W. and Clark, D.S. and Dean Tsika, F.

ARTICLE Nature, Volume 491, Year 2012, Pages 235-239
DOI:10.1038/nature11504

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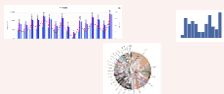
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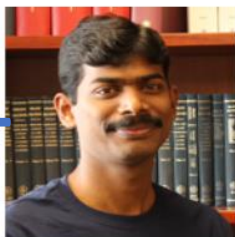
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Data Visualisation



04



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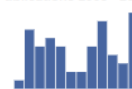
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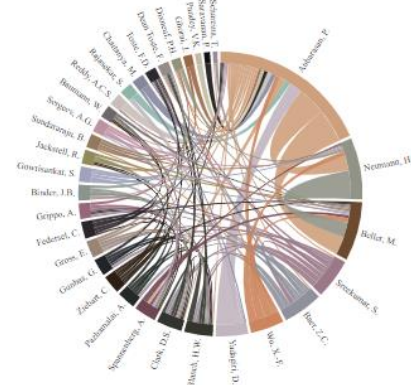
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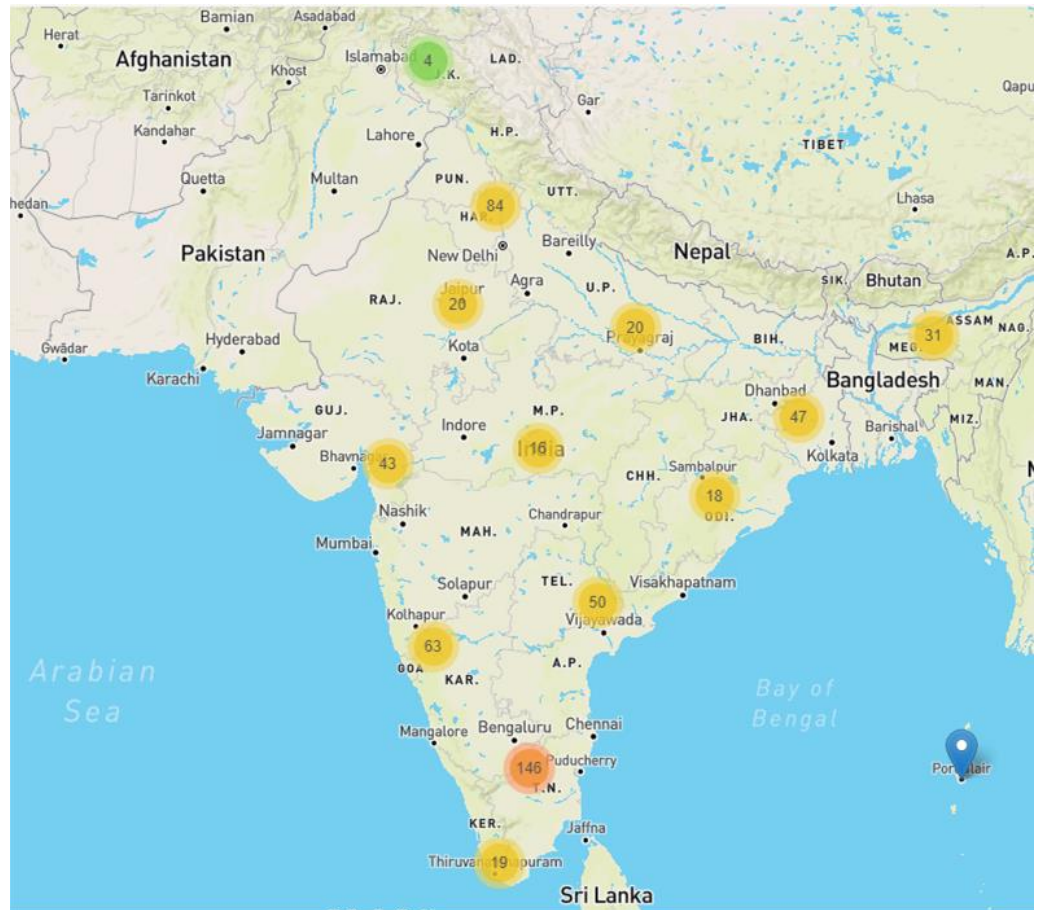
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IRINS Implementation at National level

Organisation Type	Number of Instances
IITs	23
NITs	31
IIMs	20
IISERs	6
IIITs and IITDMs	18
Other Centrally Funded Institutes	23
Central University	41
Deemed University	47
College	183
Private University	67
State University	99
Technical Institute	122
Research and Development	103
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	784



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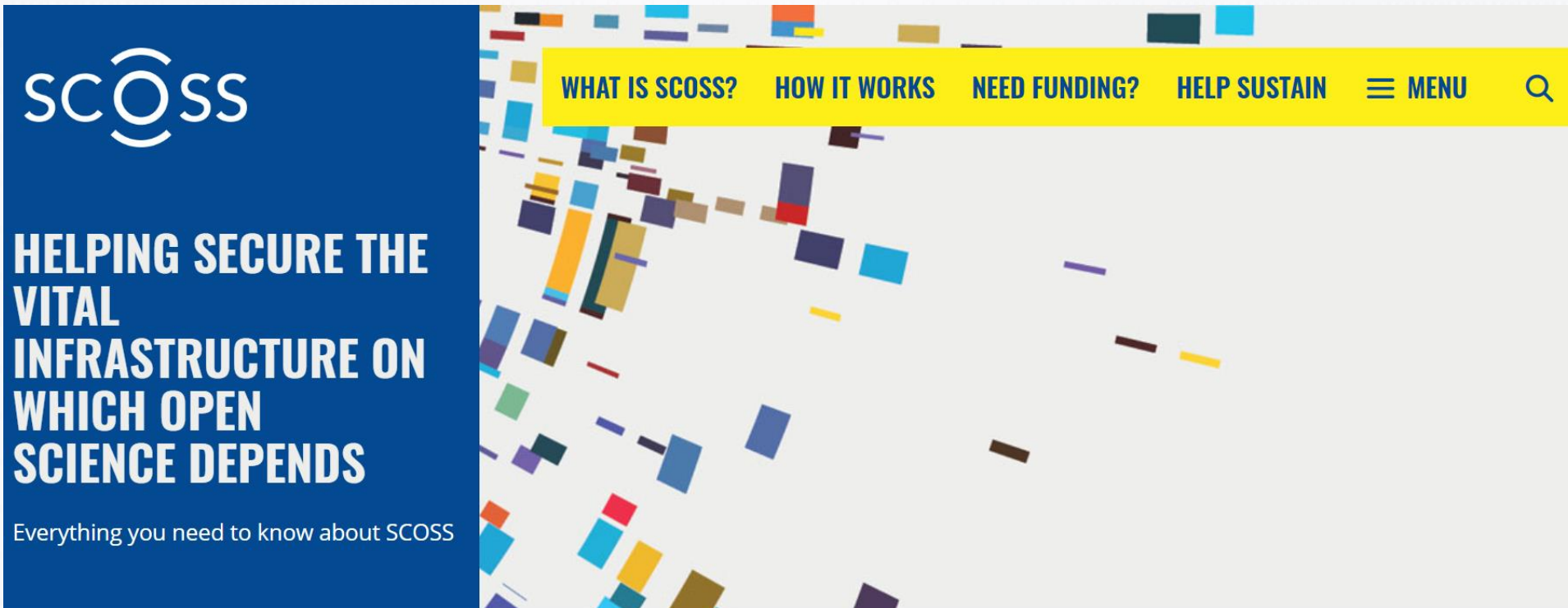
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The image shows the top portion of the SCOSS website. On the left is a dark blue vertical banner with the SCOSS logo at the top, followed by the text 'HELPING SECURE THE VITAL INFRASTRUCTURE ON WHICH OPEN SCIENCE DEPENDS' in large white letters, and 'Everything you need to know about SCOSS' in smaller white text at the bottom. To the right is a yellow navigation bar with the following menu items: 'WHAT IS SCOSS?', 'HOW IT WORKS', 'NEED FUNDING?', 'HELP SUSTAIN', '≡ MENU', and a search icon. The background of the right side features a pattern of colorful, semi-transparent rectangular shapes in shades of blue, orange, purple, and brown.

WHAT IS SCOSS?

The Global Sustainability Coalition for Open Science Services (SCOSS) is a network of influential organisations committed to helping secure OA and OS infrastructure well into the future. Officially

Thank You!

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