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Open access repositories developed under National Digitization Project & Open Scholarship Programme

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“Open Access Repositories Developed under National Digitization Project & Open Scholarship Programme”

COAR Confederation of
Open Access Repositories

25 – 27 October 2021 | SGT 13:00 – 16:30



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NATIONAL
SCIENCE
FOUNDATION

Date: 25-10-2021

ABOUT NATIONAL SCIENCE FOUNDATION

National Science Library & Resource Centre - NSLRC



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Presentation Outline

- About National Science Foundation
- NSF Open Scholarship Programme
- NSF Open Access Initiatives
- Policies and Procedures
- National Digitization Project
- Institutional Repositories One Country – One Repository Initiative
- Future Challenges of NSF
- Thank you

About National Science Foundation



- Support Research & Development
- Promotion Science, Technology & Innovation
- Collection & Dissemination of Scientific Information
- Science Popularization through Schools, Higher Education Institutions and General Public
- Interchange of Scientific Information among Scientists in Sri Lanka and foreign countries
- Conduct Research Studies for Policy Formulation

NSF Open Scholarship Programme

1. Competitive Research Grants (CRG)

- ✓ To facilitate and encourages scientists to carry out high standard R & D activities directed towards the socio-economic development of the country.

2. National Thematic Research Programme (NTRP)

- ✓ This is multidisciplinary collaborative research programme initiated to address national needs such as Food Security, Climate Change & Natural Disasters and Water Security.

3. Senior Research Fellowship Programme

- ✓ Financial support to eminent senior Scientists / Engineers to carry out fulltime research for up to 3 years.

4. Research Scholarship Programme

- ✓ To attract and encourage outstanding science/ engineering graduates to conduct fulltime research leading to postgraduate degrees.

NSF Open Scholarship Programme

Contin...

5. International Collaborative Research Programme (ICRP)

- ✓ To facilitate active researchers to share and disseminate ideas and/or techniques, initiate and undertake collaborative research/technology development.

6. Postdoctoral Research Scientist Grants

- ✓ To Provide an opportunity for scientists / engineers with recent PhD or equivalent qualifications to carryout fulltime research within the country.

7. Grant Scheme for Overseas Special Training Programme (OSTP)

- ✓ Financially assist Science Administrators, Science Educators, S&T Policy Makers, Science Communicators & full-time Research Students to acquire overseas training up to 12 months.

8. International Travel Grant

- ✓ Financial support for Sri Lankan Scientists and Technologists for overseas travel to attend scientific meetings/ conferences.

9. Grant Scheme for Promoting Science and Technology Publications

- ✓ Financially support for authors to publish S & T related books and articles.

NSF Open Scholarship Programme

Contin...

10. Grant Scheme for Technology Development

- ✓ Encouraging universities and research institutes to conduct projects leading to technology driven innovations beyond the laboratory scale.

11. Research Equipment Grants

- ✓ To support the purchase of research equipment by Universities and R & D Institutions
-

NSF Awards

- NSF Research Awards
- National Awards for Science & Technology Achievements (NASTA)
- Technology Awards
- Award Scheme for Supervision of Research Degrees (SUSRED)

National Science Foundation

Open Access Initiatives

COMMUNITY FRAMEWORK FOR GOOD PRACTICES IN REPOSITORIES



Confederation of
Open Access Repositories



Policies and Procedures

Implement Community Framework for Good Practices in Repositories

- 1) **Discoverability** – Implement Dublin Core metadata schema & OAI-PMH harvesting metadata schema, Indexing in google
- 2) **Access** – Open & Free Access, support persons with disabilities, Device neutrality,
- 3) **Reuse** – Repository has open API's to support full text harvesting and/or text and data mining
- 4) **Integrity & Authenticity** – Repository provides information about the content provider, name of the person, and institution responsible for the resources
- 5) **Quality Assurance** - The repository supports external annotation, commenting or reviewing of resources and metadata.
- 6) **Privacy of sensitive data** - Allow data owners to limit access to authorized users only
- 7) **Preservation** - Adopts widely accepted preservation practice
- 8) **Sustainability and governance** – Organization has a long term plan for managing and financing to operate the repository

Digital Repository Development Procedure

1) Purpose, Mission, and Scope

- ✓ Selection material, preparation for digitization and development of metadata and online delivery of digital collection.

2) Collection of Content and Selection Criteria

- ✓ Identify the **Subject Area** of the project, Identify the **Format & Language** of the material handle by the DL, **Prioritize** selections, Implement **Access** control,

3) Technical and Collaborative Considerations

- ✓ Digitized material should be compatible with various systems, platforms, and software.
- ✓ Collaborates with other libraries such as universities, research institutions, state departments other library systems on a case-by-case basis.

4) Copyright Permissions and Policy Responsibility

- ✓ Provide access to digital materials for educational and research purposes
- ✓ DL does not authorize use or reproduction of these digital items for commercial purposes

“Open Access Repositories” Developed under

NATIONAL DIGITIZATION PROJECT

Digitization of Science & Technology Literature of Local Research for wider access



<http://dl.nsf.ac.lk>

Objective

To digitize local S & T literature available in 25 research & academic libraries in the country to facilitate easy & quick online access to the full text through a national network of Institutional Repositories. The project launched in year 2011 & completed by year 2019.

Target

Phase	Period	No of Institutions	Pages
I	2011 – 2013	9	750,000
II	2014 – 2016	9	800,000
III	2017 - 2018	15	1,500,000
		TOTAL	<u>3,050,000</u>

Achievements

Pages Digitized	No of Online Publications
673,625	
643,806	
1,380,326	
<u>2,697,757</u>	<u>73,242</u>

Institutional Repositories Developed by the Project

Universities - 07

- Wayamba University
- University of Ruhuna
- Sabaragamuwa University
- University of Moratuwa
- South Eastern University
- Postgraduate Institute of Medicine
- Postgraduate Institute of Agriculture

Departments - 03

- Department of Census & Statistics
- Irrigation Department
- Department of Agriculture

Research Institutes - 07

- Coconut Research Institute
- Hector Kobbekaduwa Agrarian Research & Training Institute
- Rubber Research Institute
- Tea Research Institute
- NARA
- Institute of Fundamental Studies
- National Building Research Organization

Statutory Bodies - 08

- Sri Lanka Council for Agricultural Research Policy
- Central Environmental Authority
- Industrial Technology Institute
- National Science Foundation
- Geological Survey & Mines Bureau
- Mahaweli Authority of Sri Lanka
- National Library & Documentation Services Board
- The Institution of Engineers

Institutional Repository URL

No.	Institute Name	Repository URL
1	Central Environment Authority	http://cea.nsf.ac.lk
2	Coconut Research Institute	http://cri.nsf.ac.lk
3	Department of Agriculture	http://doa.nsf.ac.lk
4	Department of Census & Statistics	http://repo.statistics.gov.lk/
5	Department of Irrigation	http://repo.irrigation.gov.lk/
6	Geological Survey & Mines Bureau	Repository Installed locally.
7	Hector Kobbekaduwa Agrarian Research & Training Institute	http://harti.nsf.ac.lk
8	Industrial Technology Institute	Repository Not Active
9	Mahaweli Authority of Sri Lanka	Repository Installed locally.
10	National Aquatic Resources Research & Development Agency (NARA)	http://www.erepository.nara.ac.lk/
11	National Building Research Organization	Repository Installed locally.
12	National Institute of Fundamental Studies	http://ifs.nsf.ac.lk/

No.	Institute Name	Repository URL
13	National Library & Documentation Services Board	http://220.247.247.85:8081/
14	National Science Foundation	http://dl.nsf.ac.lk
15	Postgraduate Institute of Agriculture	http://thesis.pgia.ac.lk/
16	Postgraduate Institute of Medicine	http://librepository.pgim.cmb.ac.lk/
17	Rubber Research Institute	http://rri.nsf.ac.lk/
18	Sabaragamuwa University	http://suslrepo.nsf.ac.lk/
19	South Eastern University	http://ir.lib.seu.ac.lk/
20	Sri Lanka Council for Agricultural Research Policy	Repository Installed locally.
21	Tea Research Institute	http://tri.nsf.ac.lk/
22	The Institution of Engineers	http://iesl.nsf.ac.lk/
23	University of Moratuwa	http://dl.lib.mrt.ac.lk/
24	University of Ruhuna	http://dilru.lib.ruh.ac.lk:8080/jspui/
25	Wayamba University of Sri Lanka	Repository Installed locally.

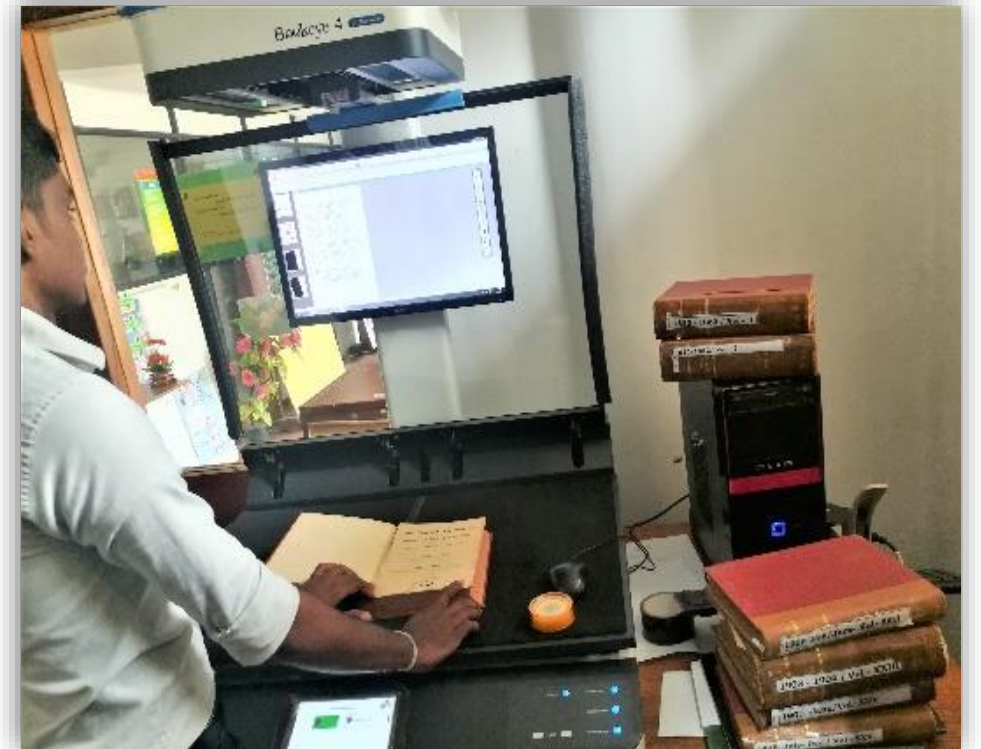
Statistics of Usage of Repositories by 2020

Institute	No. of Searches Performed	Full Text Downloaded
CEA	319,466	338,687
NIFS	215,796	9,510
RRI	441,025	298,055
TRI	240,489	101,897
HARTI	192,872	91,247
CRI	481,937	256,257
NSF	1,038,650	2,583,741
IESL	130,918	4,962
DA	139,524	17,504
SUSL	7,230	896
Total	<u>3,207,907</u>	<u>3,702,756</u>

Physical collection - Before digitization



Digitization Process



Training Workshops conducted for Library Professionals for Digital Library Software



Main Digital Repositories Developed by NSF

Repository Name	URL	No of Record Available
1. Sri Lanka Science Index Database (SLSID)	http://viduketha.nsf.gov.lk	61,156
2. Sri Lanka Science & Technology Catalogue		27,799
3. SLASS Abstracts		8,643
4. NSF Publications		438
5. RGRA & TECGRA & Equipment Database		2,823
6. Research Publication on COVID-19 Repository		682
7. Repositories developed under National Digitization Project	http://dl.nsf.ac.lk , http://dl.nsf.gov.lk/ohs	73,242
8. Research publication on Sri Lanka Journal Online platform	https://sljol.info	14,669
Total		128,296

Future Challenges of NSF

- Digitize 10 millions of local S & T literature available in 75 Research & Academic libraries in the country to facilitate easy & quick online access to the full text through a national network of Institutional Repositories.
- Implement 75 Institutional Repositories and provide Open Access to scientific community

Question and Answers?



Thank you

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