ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES
Summer Conference
"Bolstering Research: The Roles Librarians and Information Professionals in the Ideation, Use and Preservation of Outstanding Researches"
22-24 May 2019
Metrocentre Hotel & Convention Center Tagbilaran City, Bohol

Establishing Electronic Theses and Dissertation (ETD) and Institutional Repositories

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Objectives

- to give an overview on ways and requirements in setting up ETD/IR facilities;
- to present the realities and challenges in establishing these databases; and
- to suggest innovations in order to efficiently manage this kind of project

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Outcomes

At the end of the conference, the participants should be able to:

- Identify the different uses of Institutional Repositories (IR)
- Identify the four 4 essential elements of IR
- Identify an IR software and describe its feature, advantages or disadvantages
- Identify the 12 categories to help librarians identify the features that are most important to building a successful IR.

- Electronic Theses and Dissertation (ETD)
- Institutional Repositories (IR)
- Initiatives in the Philippines
- SEAFDEC/AQD IR Experience

Electronic Theses and Dissertation (ETD)

ETD - Definition

- Master's theses and Ph.D. dissertations submitted in digital form rather than in print on paper, as opposed to those submitted in hard copy and subsequently converted to machine-readable format, usually by scanning.

Networked Digital Library of Theses and Dissertations (NDLTD)

http://www.ndltd.org/

Networked Digital Library of Theses and Dissertations (NDLTD)

Mission

- an international organization dedicated to promoting the adoption, creation, use, dissemination, and preservation of electronic theses and dissertations (ETDs).
- supports electronic publishing and open access to scholarship in order to enhance the sharing of knowledge worldwide.

Networked Digital Library of Theses and Dissertations (NDLTD)

Goals

- To be the leading international organization for promotion of ETDs worldwide.
- To provide useful and innovative resources, standards, and technology for development of ETD programs.
- To encourage institutions of higher education to use NDLTD resources and participate in NDLTD activities.

Networked Digital Library of Theses and Dissertations (NDLTD)

Through the above activities:

- We will support institutions of higher education to develop their own ETD programs by adopting the submission, collection, and archiving of electronic theses and dissertations to their own repositories and to international digital libraries and repositories.
- We will support the Open Access movement.
- We will raise the awareness at institutions of higher education of the benefits of ETDs, including:
  - the facilitation of the writing process for students,
  - the increased speed of sharing research methods and results,
  - the improved distribution of research methods and results through electronic publication and archiving, leading to improved graduate education and scholarship, and
  - the reduced costs of printing, processing, and storage.

Jointly published by Akadémiai Kiadó, Budapest and Springer, Dordrecht

Scientometrics, Vol. 74, No. 1 (2008) 109–121
DOI: 10.1007/s11192-008-0106-3

The declining scientific impact of theses: Implications for electronic thesis and dissertation repositories and graduate studies

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References to thesis

Table 1. References to theses, 1980–2004

Indicator	Social Sciences and Humantities	Natural Sciences and Engineering
N references the theses	513,745	2,214,338
N articles	1,885,828	12,350,777
N references	55,364,666	329,304,208
% references to theses	0.93	0.67
N references to theses per paper	0.27	0.18

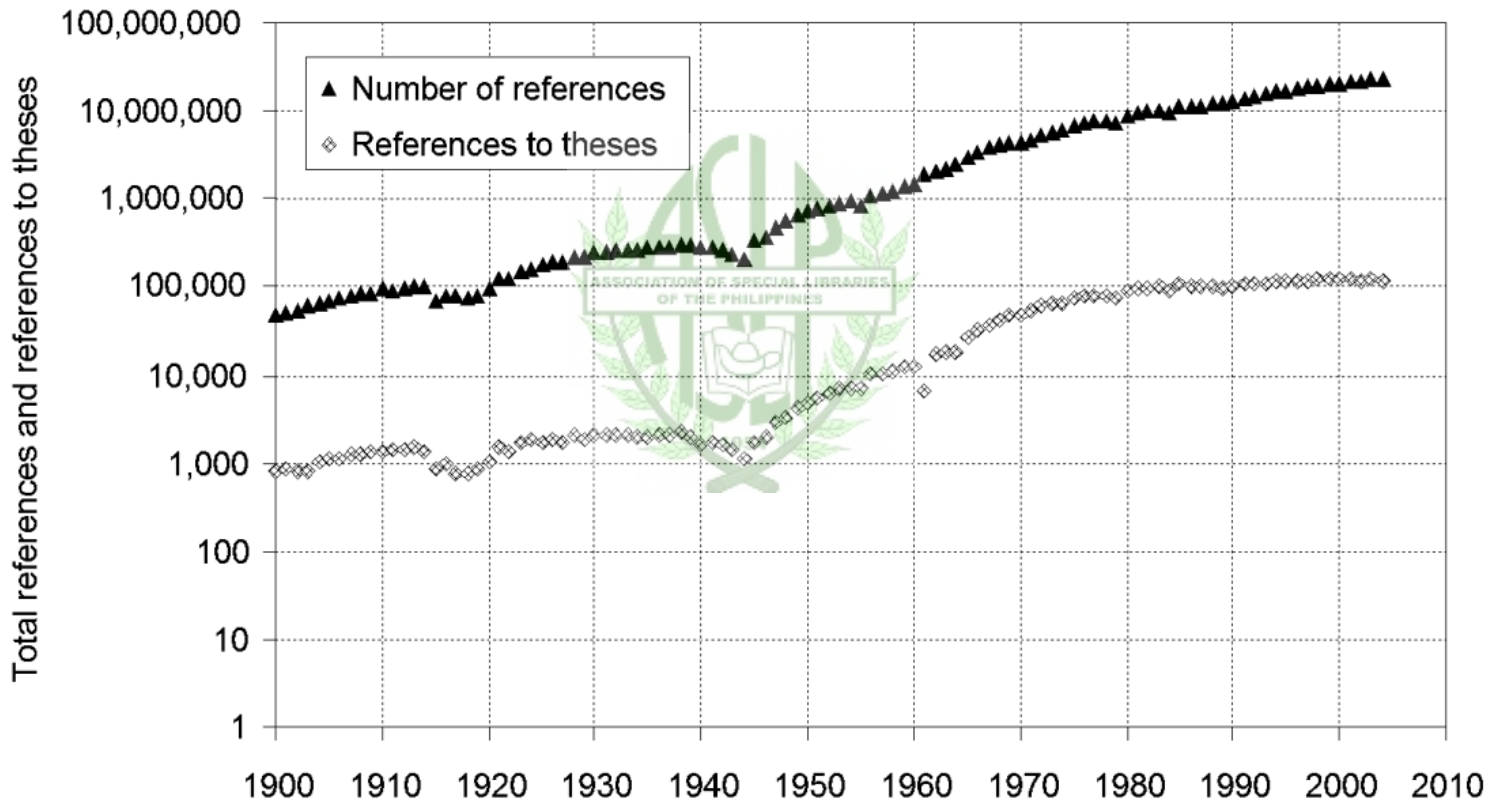

Figure 1. Total number of references and references to theses, 1900–2004

EThOS

https://ethos.bl.uk/About.do

BRITISH LIBRARY

EThOS
e-theses online service

New search | Advanced search | Login / Register | About | Help | FAQ | Follow

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About EThOS

EThOS is the UK's national thesis service which aims to maximise the visibility and availability of the UK's doctoral research theses.

It demonstrates the quality of UK research, and supports the UK Government's open access principle that publications resulting from publicly-funded research should be made freely available for all researchers, providing opportunities for further research. EThOS helps institutions to meet the expectation of the UK Research Councils that PhDs supported by a Research Council Training Grant should be made freely available in an open access repository, as indicated in its Training Grant Terms & Conditions (Paragraph 104).

EThOS aims to provide:

- A national aggregated **record** of all doctoral theses awarded by UK Higher Education institutions
- Free access to the **full text** of as many theses as possible for use by all researchers to further their own research.

There are approximately 500,000 records relating to theses awarded by over 120 institutions. Around 260,000 of these also provide access to the full text thesis, either via download from the EThOS database or via links to the institution's own repository. Of the remaining 220,000 records dating back to at least 1800, three quarters are available to be ordered for scanning through the EThOS digitisation-on-demand facility.

Records are held for all UK PhD-awarding institutions, but we do not (yet) hold *all* records for *all* institutions. Every month around 3000 new records are added and an additional 2000 full text theses become accessible. Access routes to the full text are determined by the individual institution and may depend on:

- Mandatory electronic deposit of newly awarded theses by its students
- Availability of its theses in the institutional repository
- Its level of repository development
- Digitisation priorities for its print theses

EThOS

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- A national aggregated **record** of all doctoral theses awarded by UK Higher Education institutions

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EThOS

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  - Its level of repository development
  - Digitisation priorities for its print theses

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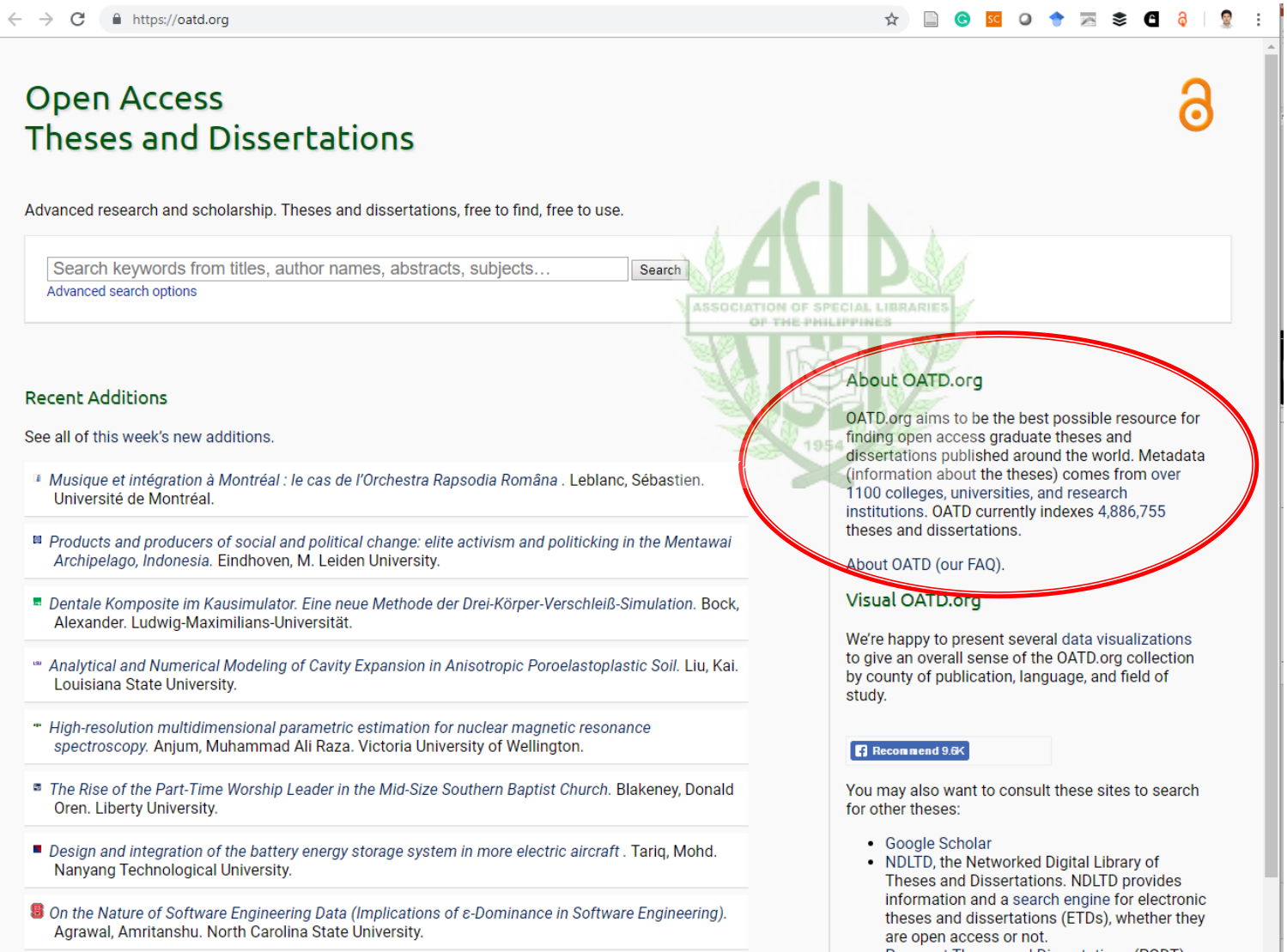
Open Access Theses and Dissertations (OATD)



https://oatd.org/

Search Results

Back to Last Search

Showing 1 - 7 of 7 results for query **sc("philippines")**

Match	Authors	Date	School	Type
Metadiscourse in the Homilies of Roman Catholic Priests in Davao City				
1	Baclay, George Orillo, BA	2016-03-31	University of Southeastern Philippines - Philippines	OTHER
GOOD GOVERNANCE IN MICROCREDIT STRATEGY FOR POVERTY REDUCTION: FOCUS ON WESTERN MINDANAO, PHILIPPINES				
2	Moreno, Frede Gumera, PhD	2004-11-04	University of the Philippines System - Philippines	DISSERTATION
A Parallel Reality Construction of War among Joloano Muslim Survivors in Sulu, Philippines				
3	Laput, Lea, PhD	2005-10-01	University of the Philippines System - Philippines	DISSERTATION
· Rest in Feast: A Community Study of the Cemetery, Social Practices and Their Meanings in Cabuyao, Laguna				
4	Papa, Joy Carmella Caunin, BA	2013-04-27	University of the Philippines System - Philippines	OTHER
INCOME INEQUALITY AND HOUSEHOLD EMPLOYMENT: THE CASE OF HOUSEHOLD RECEIVING- REMITTANCES IN THE PHILIPPINES1				
5	Patricio , Lyra Monnette Quintinita , BS	2015-01-16	University of the Philippines System - Philippines	OTHER
The Future of Philippine Payments Industry: A Technology Foresight by 2022				
6	Gonzales, Maurice Villaluna	2017-12-17	University of the Philippines System - Philippines	THESIS
Employee Work Sustainability in Selected International Business Process Outsourcing Companies				
7	CABACANG, GLENN SANIANO	2015-04-01	Polytechnic University of the Philippines - Philippines	THESIS

ASLP ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES 1954

Search Results

Back to Last Search

Showing 1 - 50 of 4477 results for query **philippines**

1 2 3 4 5 6 7 8 9 10 .. 90 Next >

Match	Authors	Date	School	Type
The benefits of a senior peer counsellors				
1	Goldman, Marsha Bari , MS	1996-01-12	Lanao School of Science and Technology - Philippines	THESIS
SPACE, LOCATION IN URBAN KAMPALA A Case Study for Urban Planning Necessity in Buganda				
2	Daniel, Bwanika, BS	2009-09-30	Kampala University - Uganda	OTHER
Language usage and language attitudes among education consumers : the experience of Filipinos in Australia and in three linguistic communities in the Philippines				
3	Nical, Iluminado C.	2000-01-01		THESIS
A Comparative Study on Political Parties in the Philippines and Taiwan				
4	Lin, Yi-sheng	2008-06-26	National Sun Yat-Sen University - China - Taiwan	THESIS
A Comparative Study on Political Parties in the Philippines and Taiwan				
5	Lin, Yi-sheng, Lin, Yi-sheng	2008-06-26	National Sun Yat-Sen University - China - Taiwan	THESIS
An ex-ante economic impact assessment of Bt eggplant in Bangladesh, the Philippines and India [electronic resource] /				
6	Mishra, Sanjiv		Virginia Polytechnic Institute and State University - USA - Virginia	THESIS
Effectiveness of Gulayan Sa Paaralan Program in Tambo Elementary School, Lanao del Norte, Philippines				
7	Dansal, Jamalia Batalo, BS	2015-01-26	Mindanao State University - Philippines	OTHER
The Future of Philippine Payments Industry: A Technology Foresight by 2022				

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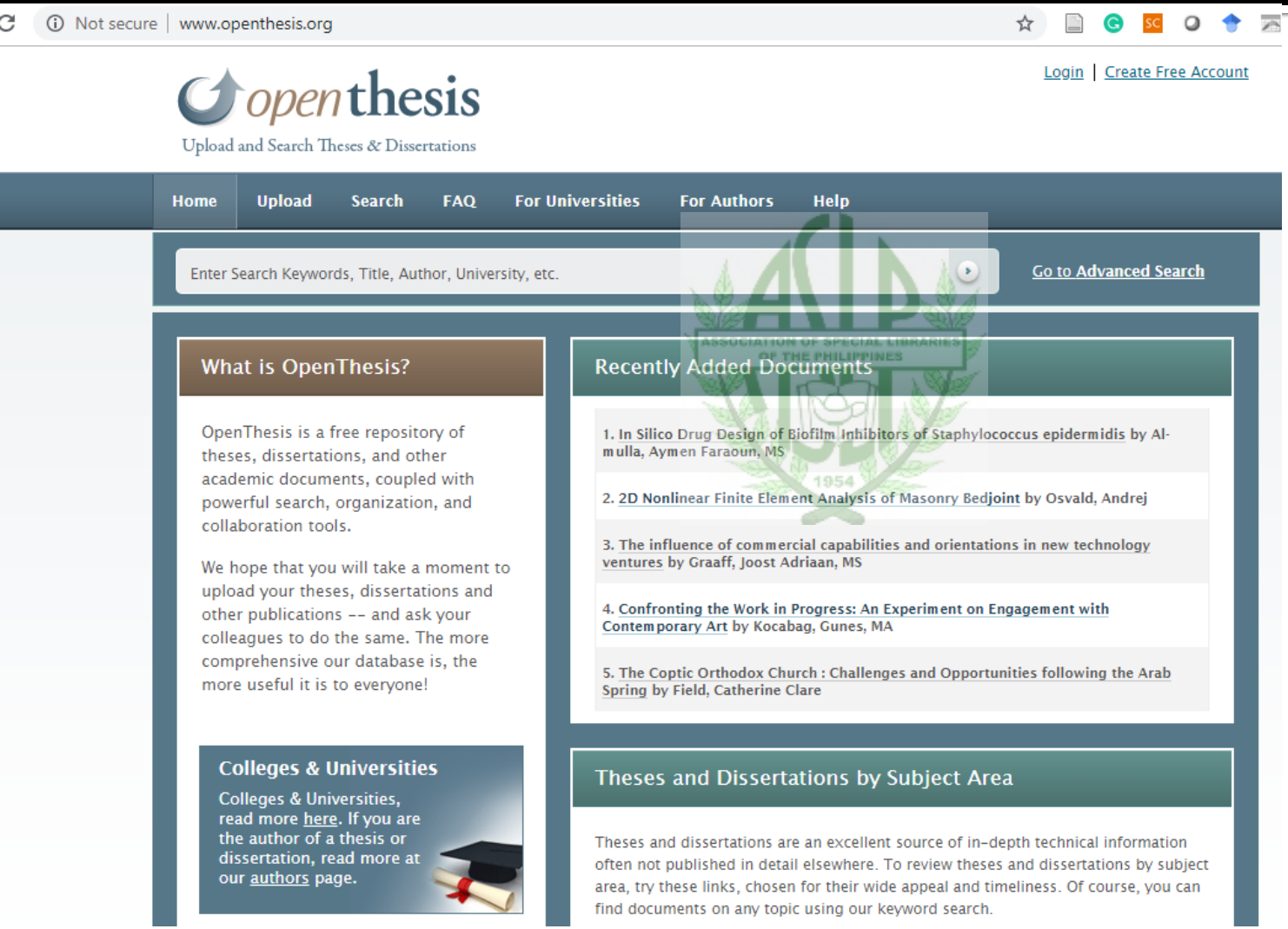
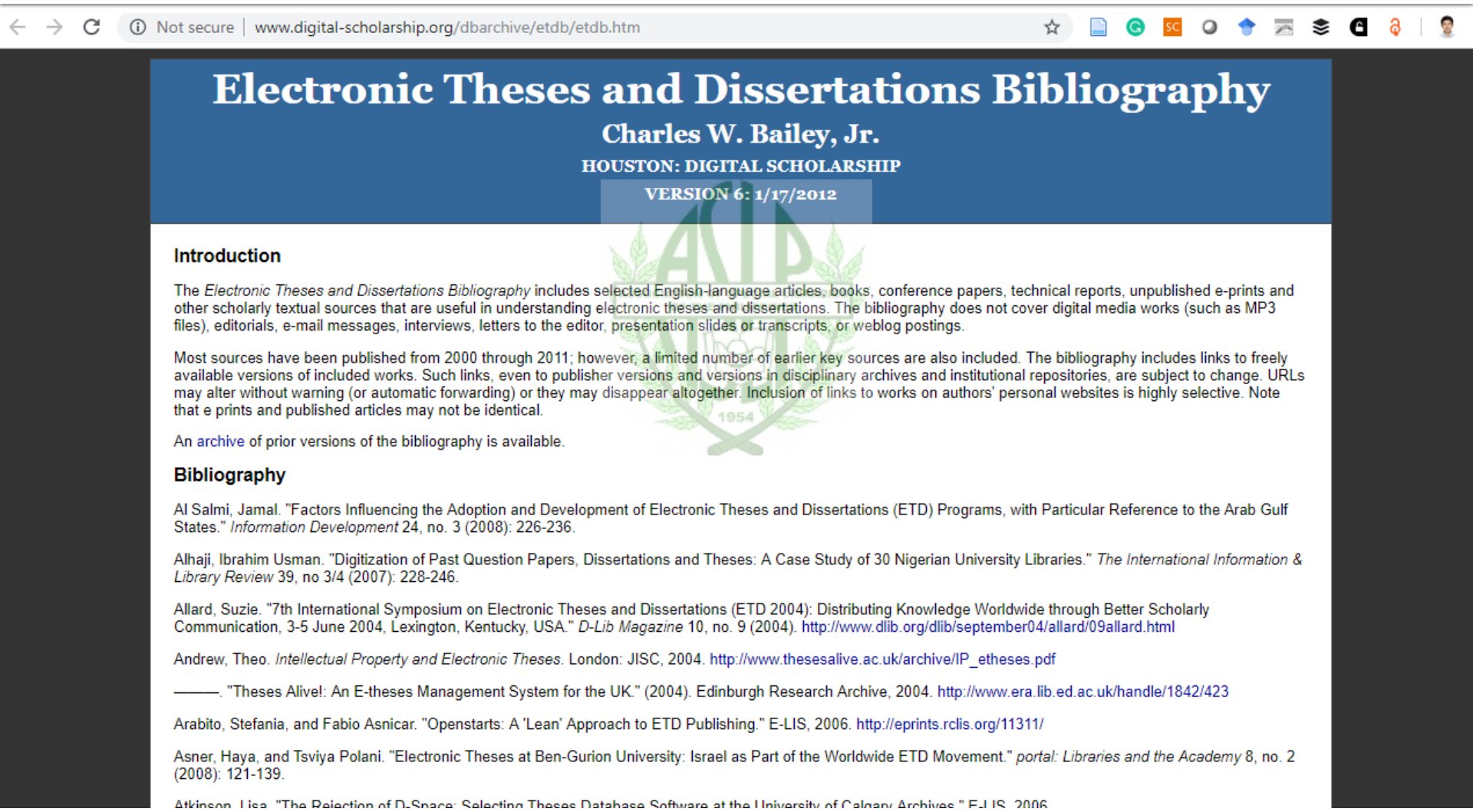
OpenThesis



http://www.openthesis.org/

Electronic Theses and Dissertations Bibliography by: Charles W. Bailey, Jr.

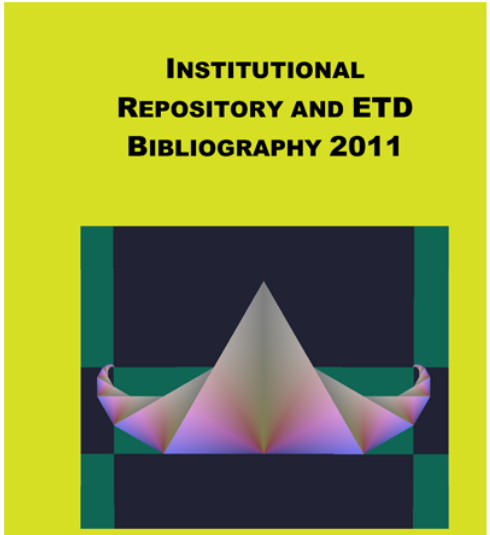


http://www.digital-scholarship.org/dbarchive/etdb/etdb.htm

Electronic Theses and Dissertations Bibliography by: Charles W. Bailey, Jr.

t secure | www.digital-scholarship.org/iretd/iretd2011.htm

Institutional Repository and ETD Bibliography 2011



Universities, colleges, and other academic institutions are increasingly implementing and supporting institutional repositories (IRs). Typically, an institutional repository includes a variety of digital documents produced by scholars throughout the institution, including journal article e-prints, data sets, presentations, technical reports, and teaching materials. Institutional repositories can also include digital versions of graduate students' theses and dissertations (called ETDs).

The *Institutional Repository and ETD Bibliography 2011* presents over 600 English-language articles, books, technical reports, and other works that are useful in understanding institutional repositories and ETDs. This selective bibliography covers IR country and regional surveys, multiple-institution repositories, specific IRs, IR digital preservation issues, IR library issues, IR metadata strategies, institutional open access mandates and policies, IR R&D projects, IR research studies, IR open source software, and electronic theses and dissertations. Most sources have been published from 2000 through June 30, 2011; however, a limited number of key sources published prior to 2000 are also included. The bibliography includes links to freely available versions of included works, such as e-prints and open access articles.

The *Institutional Repository and ETD Bibliography 2011* is available as an open access PDF file and a low-cost paperback. Both are under a Creative Commons Attribution-Noncommercial 3.0 United States License.

For further information about Digital Scholarship publications, see the "Digital Scholarship Publications Overview" and "Reviews of Digital Scholarship Publications."

Charles W. Bailey, Jr. is the publisher of Digital Scholarship, which deals with digital copyright, digital curation, digital repository, open access, scholarly communication, and other digital information issues. He has over 30 years of information technology experience, including 24 years of managerial experience in academic libraries. Bailey has been an open access publisher for over 20 years, starting in 1989 with *The Public-Access Computer Systems Review* (founding Editor-in-Chief, 1989-2006), the first open access journal in the field of library and information science. In 1996, he began publishing the *Scholarly Electronic Publishing Bibliography*, an open access book that has been updated over 80 times. He is the author of a number of digital and print bibliographies, including the *Open Access Bibliography: Liberating Scholarly Literature with E-Prints and Open Access Journals* and *Transforming Scholarly Publishing through Open Access: A Bibliography*.

He has written over 30 papers about digital copyright, expert systems, institutional repositories, open access, scholarly communication, and other topics. In 2010, Bailey was given a Best Content by an Individual Award by *The Charleston Advisor*. In 2003, he was named as one of *Library Journal*'s "Movers & Shakers." In 1993, he was awarded the first LITA/Library Hi Tech Award for Outstanding Communication for Continuing Education in Library and Information Science. He holds master's degrees in information and library science and education (instructional media and technology). (See the "Selected Publications of Charles W. Bailey, Jr." for a more complete description of his publications.)

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http://www.digital-scholarship.org/iretd/iretd2011.htm

https://libguides.wits.ac.za/c.php?g=145496&p=956654

https://libguides.wits.ac.za/c.php?g=145496&p=956654

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LIBGUIDES

University of the Witwatersrand / LibGuides / Open Educational Resources for Humanities & Social Sciences / Electronic Theses/Dissertations (ETDs)

Open Educational Resources for Humanities & Social Sciences: Electronic Theses/Dissertations (ETDs)

Search this Guide | Search

This guide provides many free and open resources, including books, journals, databases, podcasts, videos, repository collections, etc. in the Humanities. University lecturers/school teachers and students will find them useful for teaching/learning.

Introduction to OERs | OER Search Engines | OERs/OpenCourseWare Resources | Massive Open Online Courses (MOOCs) | OERS by topic (A-L) | OERS by topic (M-Z)
Other OA/OER resources | Electronic Theses/Dissertations (ETDs) | Digital Libraries/Repositories (SA) | Inst'l Repositories/Digital Libraries | Research Process | Library

Institutional Repositories

Institutional Repositories (Videos)

- Institutional Repositories: An Overview Video | The School of Library and Information Science - Wayne State University Blogs

Electronic Theses/Dissertations

- AUT University, NZ - Scholarly Commons
- Databases of Theses
- Directory of Open Access Repositories
- Electronic Theses and Dissertations Bibliography
- ETHOS : E-Theses Online Service
- OATD – Open Access Theses and Dissertations
- Open Access Theses and Dissertations
- Open Theses
- Open Theses and Dissertations
- Promises and Perils of Electronic Theses and Dissertations-Scholarly Communications - Carnegie Mellon University
- Research Showcase-Scholarly Communications - Carnegie Mellon University
- Silesian University of Technology Digital Repository - Main page
- University of Sydney Digital Theses
- University of Sydney e-Scholarship Repository
- West Virginia University Theses

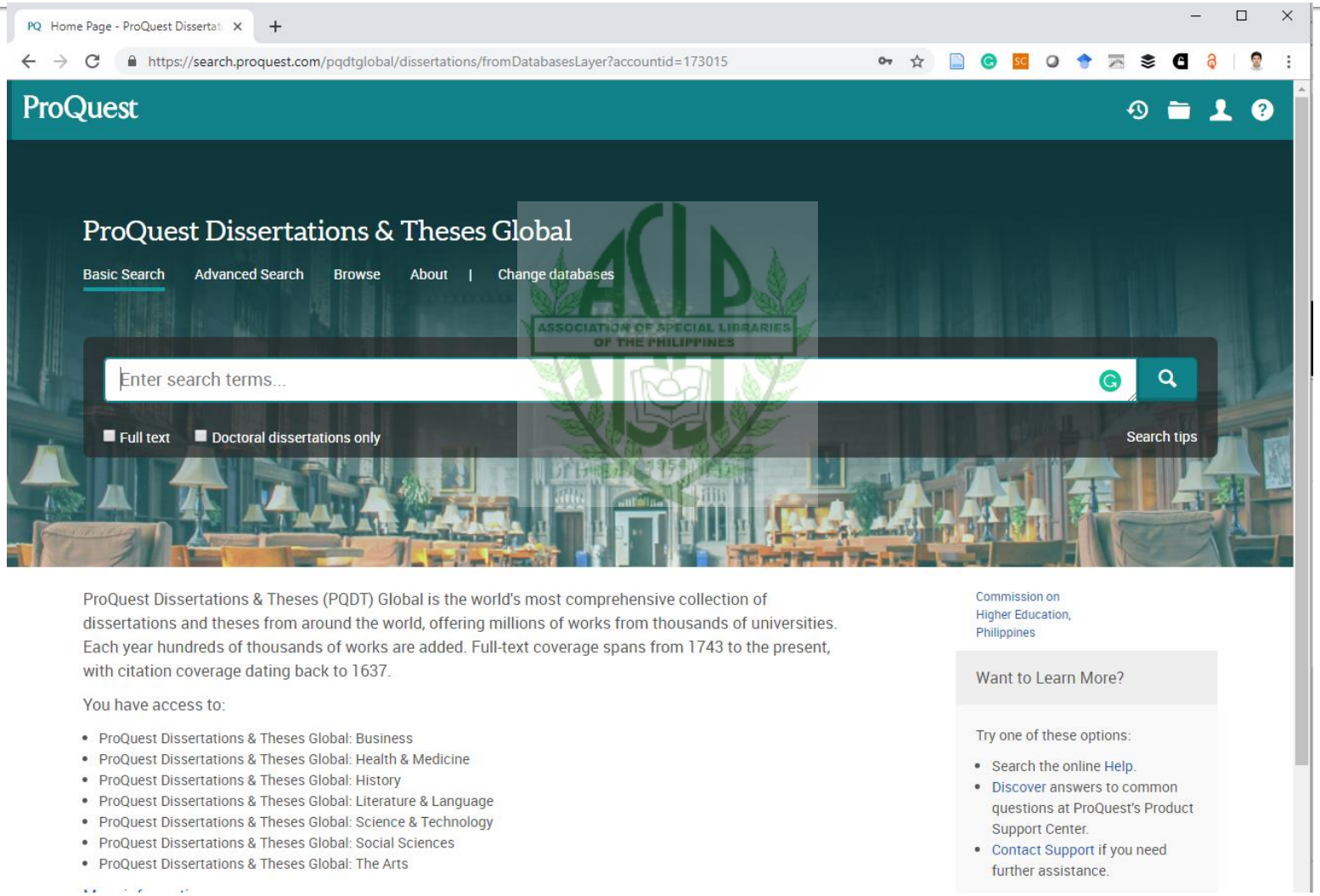
Confederation of Open Access Repositories

- COAR – Greater visibility and application of research through global networks of Open Access repositories

OA Portals/Databases

- AfricaBib
- African Capacity Building Foundation OA Portal
- Africa Portal Library | Africa Portal
- arXiv.org e-Print archive
- The Criterion Collection on Films
- EconStor (Economics)
- EDP Open - global scientific community
- Eighteenth Century Collections Online
- eMolecules
- Erwin E. Smith Photography
- Europeana
- Europeana 1914-1918 - untold stories & official histories of WW1
- Global Open Access Portal | United Nations Educational, Scientific and Cultural Organization

ProQuest Dissertations & Theses (PQDT) Global



https://search.proquest.com/pqdtglobal/

Electronic theses and dissertation (ETD) repositories

What are they? Where do they come from? How do they work?

Kristin Yiotis
Sutter Health, Sunnyvale, California, USA

Received June 2007
Revised November 2007
Accepted December 2007

Abstract

Purpose – The purpose of this paper is to introduce the electronic theses and dissertation (ETD) repository as a subset of local institutional digital repositories. The paper discusses the originating institutions and organizations including Virginia Tech Initiative, the Networked Digital Library of Theses and Dissertations, the United Nations Educational, Scientific, and Cultural Organization and the United States Department of Education.

Design/methodology/approach – This paper is informational in nature and explores the topic of ETD repositories. It provides information relevant to academic and digital librarians interested in including an ETD repository in their institution's digital library. The paper discusses interoperability among repositories and the Open Archives Initiative Protocol for Metadata Harvesting. The paper discusses issues related to ETD repositories including intellectual property rights, publishers' views of ETDs as prior publications, plagiarism issues, development costs, and long-term preservation issues.

Thesis and Dissertation

- “cherished academic genre” of literature in Academic Libraries

Cataloging & Classification Quarterly, 47:297–308, 2009
Copyright © Taylor & Francis Group, LLC
ISSN: 0163-9374 print / 1544-4554 online
DOI: 10.1080/01639370902737323

Routledge
Taylor & Francis Group

Electronic Thesis and Dissertation Metadata Workflow at Oregon State University Libraries

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Oregon State University Libraries, Corvallis, Oregon, USA

In July 2005, the Oregon State University Libraries began accepting electronic versions of student theses and dissertations into ScholarsArchive@OSU, the library's institutional repository. By January 2007, all Oregon State University graduate students were required to deposit their final research. This article compares past processes and workflows for print theses and dissertations with the present workflow for electronic. We provide the rationale for changes and review the cost- and time-savings produced. We describe the changing roles of students, technicians, and librarians in the metadata process as well as the value of students describing their own work.

KEYWORDS ETDs, metadata, workflow, Oregon State University

TABLE 1 Print and ETD Comparison

Task	Print T/D (minutes/100 items)	ETD (minutes/100 items)
Retrieve theses from Graduate School	120	60
Generate list of theses	60	0
Examine and collate theses	2000	1000
Prepare/send theses to bindery	60	0
Prepare/send dissertations to UMI	60	30
Prepare theses for storage	60	60
Create call numbers from list of theses	120	0
Create brief bib record with call number	480	0
Create full MARC record (physical description/local subject heading)	1080	0
Review student-created metadata; authorize names; add descriptive notes	0	500
Assign LCSH	3250	3250
Download and overlay record in OPAC	100	0
Map/review/export DSpace metadata to OPAC and WorldCat	0	950
Receive UMI dissertations; prepare/send dissertations to bindery	60	0
Receive/examine theses/dissertations upon return from bindery	300	0
Shelve bound theses/dissertations in stacks	60	0
Shelve storage copies of theses/dissertations	60	60
Total time spent (minutes/100 items)	7870	6020
Total time spent (minutes/item)	~80	~60
Total processing cost (per item)	$23.23	$18.87
Total processing cost (annual)	$11,615.00	$9,435.00

ScholarsArchive@OSU

https://ir.library.oregonstate.edu

Oregon State University

English Login

ScholarsArchive@OSU

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Featured Works | Recently Uploaded

Focus on nutrition : serve vegetables

Creator: Oregon State University. Extension Service
Subject: Extension circular (Oregon State University. Extension Service), Nutrition

Fashion terms and styles for women's garments

Creator: Oregon State University. Extension Service, Koester, Ardis W., Bryant, Nancy O.
Subject: Fashion--Terminology, Clothing and dress--Terminology, Extension circular (Oregon State University. Extension Service)

Studies on luteinizing hormone and gonadal steroids in male and female llamas (Lama glama)

Creator: Reed, Pamela J.
Subject: Llamas--Reproduction--Endocrine aspects, Testosterone, Luteinizing hormone

The influence of solar panels on local hydrology and plant ecology

Creator: Hassanpour, Elnaz
Subject: Solar cells

Featured Researcher | Explore Collections

Virginia Weis

Dr. Virginia Weis is one of OSU's 2019 Distinguished Professor honorees. Her renowned Weis Lab investigates the relationships between cnidarians and their photosynthetic symbionts; these partnerships are crucial for coral reef health and advance efforts to combat coral reef decline.

Read some of Dr. Weis's many publications in ScholarsArchive@OSU.

Institutional Repositories

- Repositories played as significant role as the main support tool for the open access (OA) movement.

Photo credit: twitter.com/filecamp

Uses of Institutional Repository

Main Uses

- Address the issue of scholarly communication crisis
- Expand access and enhance visibility
- Preserve digital content

Others

- Serving as one part or marketing plan for an institution
- Archiving the institutions' internal governance documents
- Managing and distributing thesis and dissertations

(Crow, 2002)

Repositories and Scholarly Communication

- Addressing the scholarly communication is one of the fundamental drivers of IR implementation
- The idea of an IR went hand in hand with the concept of open access.
- Many of the early adopters and advocates of repositories were also leaders in the spread of open access.

(Crow, 2002)

Roles of IRs

- Provide a critical component in reforming the system of scholarly communication
  - A component that expands access to research
  - Reasserts control over scholarship by the academy
  - Increases competition and reduces the monopoly power of journals
  - Brings economic relief and heightened relevance to the institutions and libraries that support theme.

(Crow, 2002)

Essential elements of IR identified by Prosser(2003) and Crow (2002)

IR should be

- institutionally defined
- scholarly
- cumulative and perpetual
- interoperable and open access

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Institutionally defined

- institutional repositories capture the original research and other intellectual property generated by an institution's constituent population active in many fields.
- Defined in this way, institutional repositories represent an historical and tangible embodiment of the intellectual life and output of an institution

Crow (2002)

Scholarly Content

- This content may include
  - pre-prints and other works-in-progress,
  - peer-reviewed articles,
  - monographs,
  - enduring teaching materials,
  - data sets and other ancillary research material,
  - conference papers,
  - electronic theses and dissertations, and
  - gray literature.

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Crow (2002)

Scholarly Content

- To control and manage the accession of this content requires appropriate policies and mechanisms, including content management and document version control systems.
- The repository policy framework and technical infrastructure must provide institutional managers the flexibility to control who can
  - contribute,
  - approve,
  - access, and
  - update the digital content

coming from a variety of institutional communities and interest groups (including academic departments, libraries, research centers and labs, and individual authors).

Crow (2002)

Cumulative and Perpetual

This has two implications:

1. Whatever the content submission criteria for a repository, items once submitted cannot be withdrawn—except in presumably rare cases involving allegations of libel, plagiarism, copyright infringement, or "bad science."
2. institutional repositories aim to preserve and make accessible digital content on a long-term basis.

Crow (2002)

Interoperability and Open Access

- Providing no- or low-barrier access to the intellectual product generated by the institution increases awareness of research contributions
- The goals motivating an institution to create and maintain a digital repository—whether pan-institutional, as a component in the changing structure of scholarly communication, or institution-centric—require that users beyond the institution's community gain access to the content.

Crow (2002)

Interoperability and Open Access

- IR systems must be able to support interoperability in order to provide access via multiple search engines and other discovery tools.
  - An institution does not necessarily need to implement searching and indexing functionality to satisfy this demand:
    - It could simply maintain and expose metadata, allowing other services to harvest and search the content.
    - This simplicity lowers the barrier to repository operation for many institutions, as it only requires a file system to hold the content and the ability to create and share metadata with external systems.

Crow (2002)

The role of librarians

- The role of librarians in the Open Access movement has been very important as they are the main designers, promoters and maintainers of institutional repositories as identified by the Cybermetrics Lab (repositories.webometrics.info).

SEAFDEC/AQD INSTITUTIONAL REPOSITORY

Nursery culture of tropical anguillid eels in the Philippines

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Date
2019

Author
Cuvin-Aralar, Maria Lourdes
Aya, Frolan A.
Romana-Eguia, Maria Rowena
Logronio, Dan Joseph

Metadata
Show full item record

Description
This technical publication focused on nursery production of anguillid eels from glass eels to elver using data gathered from eel farm surveys and rearing trials conducted by SEAFDEC/AQD as part of the JAIF (Japan-ASEAN Integration Fund) project on Enhancing Sustainable Utilization and Management Scheme for Tropical Anguillid Eel Resources in Southeast Asia.

URI
http://hdl.handle.net/10862/3444

Citation
Cuvin-Aralar, M. L., Aya, F. A., Romana-Eguia, M. R., & Logronio, D. J. (2019). Nursery culture of tropical anguillid eels in the Philippines. http://hdl.handle.net/10862/3444

Publisher
Aquaculture Department, Southeast Asian Fisheries Development Center

Series
Aquaculture extension manual; No. 65

Subject

SEAFDEC/AQD
INSTITUTIONAL
REPOSITORY

Nursery culture of tropical anguillid eels in the Philippines

dc.contributor.author	Cuvin-Aralar, Maria Lourdes	
dc.contributor.author	Aya, Frolan A.	
dc.contributor.author	Romana-Eguia, Maria Rowena	
dc.contributor.author	Logronio, Dan Joseph	
dc.date.accessioned	2019-04-03T02:16:59Z	
dc.date.available	2019-04-03T02:16:59Z	
dc.date.issued	2019	
dc.identifier.citation	Cuvin-Aralar, M. L., Aya, F. A., Romana-Eguia, M. R., & Logronio, D. J. (2019). Nursery culture of tropical anguillid eels in the Philippines.	en
dc.identifier.issn	0115-5369	
dc.identifier.uri	http://hdl.handle.net/10862/3444	

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SEAFDEC/AQD INSTITUTIONAL REPOSITORY

dc.description	This technical publication focused on nursery production of anguillid eels from glass eels to elver using data gathered from eel farm surveys and rearing trials conducted by SEAFDEC/AQD as part of the JAIF (Japan-ASEAN Integration Fund) project on Enhancing Sustainable Utilization and Management Scheme for Tropical Anguillid Eel Resources in Southeast Asia.	en
dc.language.iso	en	en
dc.publisher	Aquaculture Department, Southeast Asian Fisheries Development Center	en
dc.relation.ispartofseries	Aquaculture extension manual; No. 65	en
dc.subject	Anguilla anguilla	
dc.subject	Anguilla japonica	
dc.subject	Anguilla rostrata	
dc.subject	Anguillidae	
dc.subject	Philippines	en
dc.title	Nursery culture of tropical anguillid eels in the Philippines	en
dc.type	Book	en
dc.subject.asfa	Eel culture	en
dc.subject.asfa	Freshwater aquaculture	en

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ACCESS AND OPPORTUNITY FOR ALL

How libraries contribute to the United Nations 2030 Agenda

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International Federation of Library Associations and Institutions

LIBRARIES CAN DRIVE PROGRESS ACROSS THE ENTIRE UN 2030 AGENDA

IFLA
The trusted global voice of the library and information profession (www.ifla.org).

The International Federation of Library Associations and Institutions (IFLA) is the leading international body representing the interests of library and information services and their users.

UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

END POVERTY IN ALL ITS FORMS EVERYWHERE

Libraries support this goal by providing...

- Public access to information and resources that give people opportunities to improve their lives
- Training in new skills needed for education and employment
- Information to support decision-making by governments, civil society, and businesses to combat poverty

END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

Libraries support this goal by providing...

- Agricultural research and data on how to make crops more productive and sustainable
- Public access for farmers to online resources like local market prices, weather reports, and new equipment

ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

Libraries support this goal by providing...

- Research available in medical and hospital libraries that supports education and improves medical practice for health care providers
- Public access to health and wellness information in public libraries that helps individuals and families stay healthy

ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

Libraries support this goal by providing...

- Dedicated staff who support early literacy and lifelong learning
- Access to information and research for students everywhere
- Inclusive spaces where cost is not a barrier to new knowledge and skills

ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

Libraries support this goal by providing...

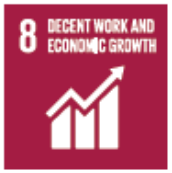
- Safe and welcoming meeting spaces
- Programmes and services designed to meet the needs of women and girls, like rights and health
- Access to information and ICT that helps women build business skills

ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

Libraries support these goals by providing...

- Access to quality information and good practices that support local water management and sanitation projects
- Free and reliable access to electricity and light to read, study, and work



PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

Libraries support this goal by providing...

- Access to information and skills training that people need to find, apply for, and succeed in better jobs

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BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

Libraries support this goal by providing...

- Widespread existing infrastructure of public and research libraries and skilled library professionals
- Welcoming and inclusive public spaces
- Access to ICT like high-speed internet that may not be available anywhere else

REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

Libraries support this goal by providing...

- Neutral and welcoming spaces that make learning accessible to all, including marginalized groups like migrants, refugees, minorities, indigenous peoples, and persons with disabilities
- Equitable access to information that supports social, political, and economic inclusion

MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

Libraries support this goal by providing...

- Trusted institutions devoted to promoting cultural inclusion and understanding
- Documentation and preservation of cultural heritage for future generations

PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

Libraries support this goal by providing...

- Public access to information about government, civil society, and other institutions
- Training in the skills needed to understand and use this information
- Inclusive, politically neutral spaces for people to meet and organise

STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

Libraries support this goal by providing...

- Global network of community-based institutions, primed to support local development plans

ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

Libraries support these goals by providing...

- Sustainable system of sharing and circulating materials that reduces waste
- Historical records about coastal change and land use
- Research and data needed to inform climate change policy
- Widespread access to information needed to guide decision-making by local and national governments on topics like hunting, fishing, land use, and water management

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For more information, see: www.ifla.org/libraries-development

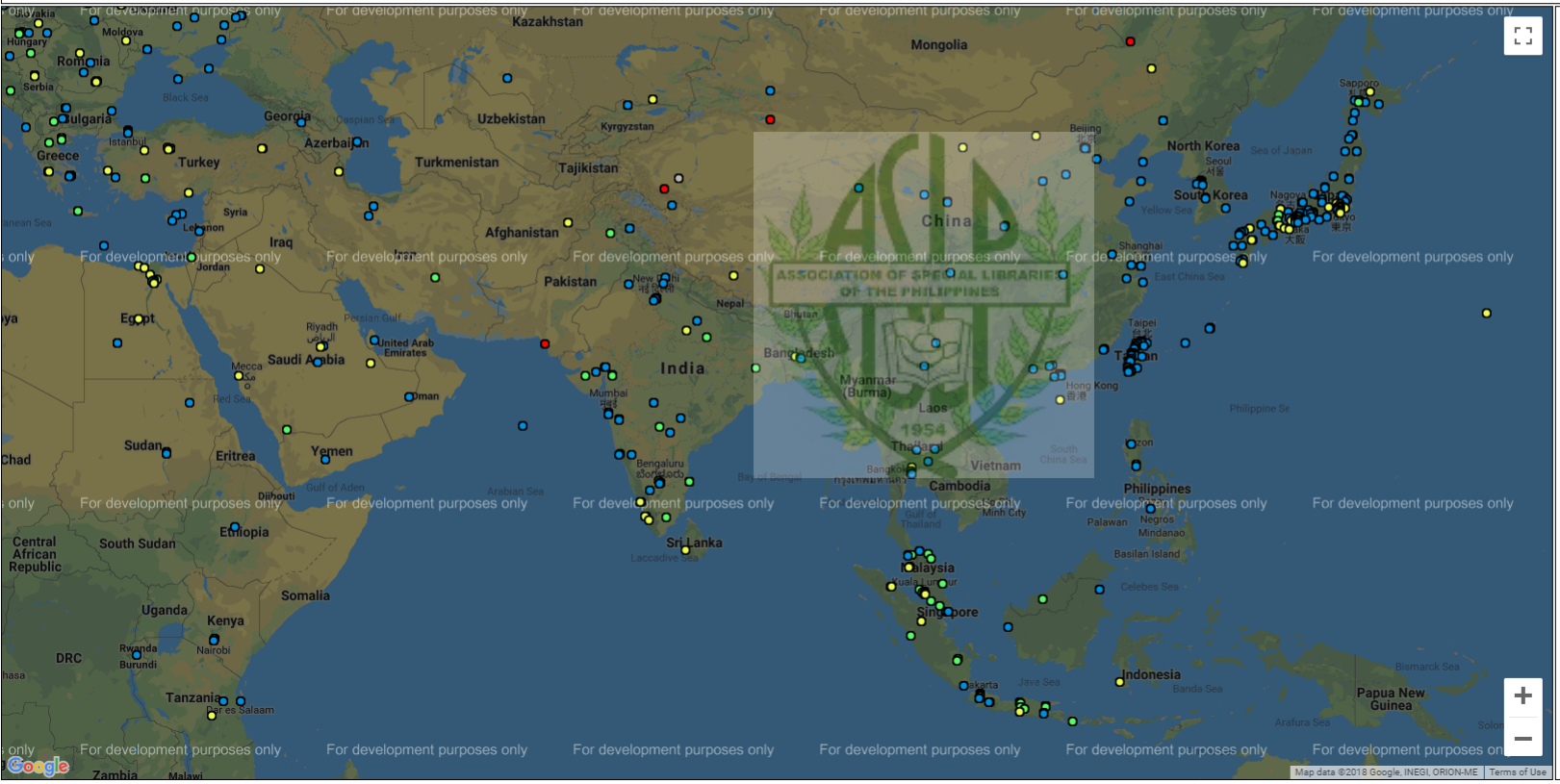
Repository maps

Not secure | maps.repository66.org

Repository66.org Repository Maps

Hide information bar

Platform: All (3045) Country: All (3045) Registered between January 1990 and September 2014 filter results show all



Information bar

- DSpace (1225)
- EPrints (468)
- BEPress (168)
- ETD-db (44)
- Fedora (40)
- OPUS (26)
- OpenRepository (15)
- Other repository (1059)

(Show all)

Normal icons | Repository size icons

There are **12,301,750** items held in the 3045 repositories on this map.

Download a map for Google Earth:
>> Google Earth map <<

Data provided by: ROAR & OpenDOAR

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- About the maps -
- Incorrect or missing repository location? -

Data last harvested: 20-Apr-2014 12:15

http://unllib.unl.edu/LPP/

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Status of Institutional Repositories in Asian Countries: A Quantitative Study

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Introduction

With the development of information communication technologies, a number of alternative strategies to the traditional scholarly publishing system have been evolved. Among these, Open Access (OA) model which promise to be extremely advantageous to peers everywhere, especially to those who have acute shortage of resources for purchasing scholarly literature. The impetus of OA was boosted by the Open Society Institute (OSI) in a small meeting convened in Budapest on December 1-2, 2001. The purpose of the meeting was to accelerate progress in the international effort to make research literature in all academic fields freely available on the Internet (OAIS, 2002; Hirtle, 2001). The first major international statement on OA, which includes a definition, background information and a list of signatories, is the Budapest Open Access Initiative. The other two leading

Article

Information Development
1–10
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Exploratory analysis of the operation of institutional repositories in Asian countries

Jane Cho
University of Incheon

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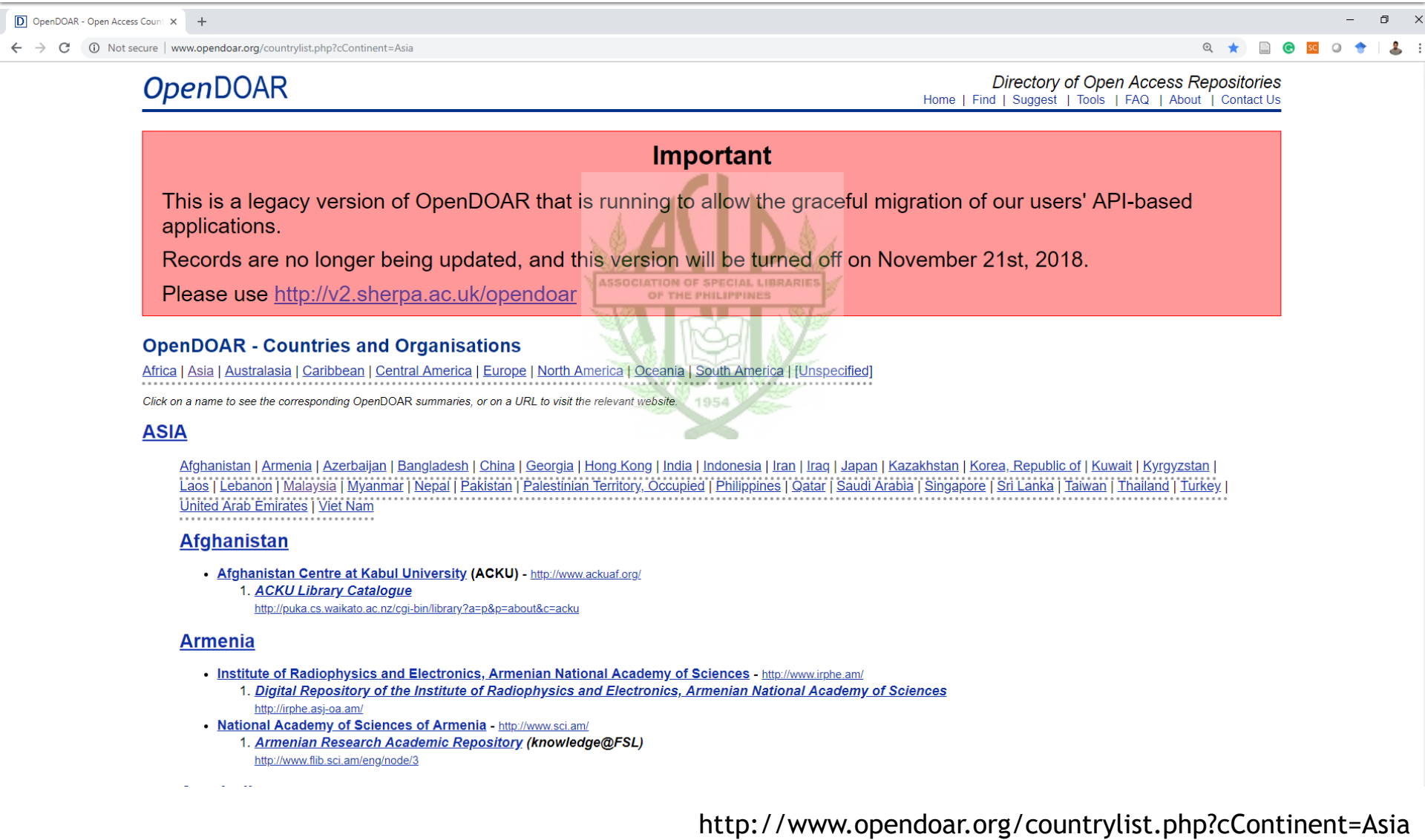
Abstract

Many academic journals issued by new and developing countries have not been indexed in the global database, making their discovery and access difficult. Therefore, the open access service available through institutional repositories in developing countries can provide direct access to research results, playing an important role in supplementing the flow of global knowledge. This study examines how the basis for open access was established in Asian countries through an exploratory analysis of the status of institutional repositories. Specifically, the operation status of institutional repositories in Asian countries and their influence on the web were examined using OpenDOAR (Directory of Open Access Repositories) and the Ranking Web of World Repositories (RWWR). Following this, Asian countries were clustered according to their level of operation of repositories by employing factor and cluster analyses. Results of the analyses showed that the level of operation remains poor, despite government assistance in installing institutional repositories in many Asian countries. Meanwhile, the possibility of global open access to research results through institutional repositories in Japan, Korea, India, Taiwan, Indonesia, China, Turkey, and Malaysia was shown to be relatively more feasible than for other new and developing Asian countries.

Table 1. Number of Institutional repositories in Asian countries and number of contents (2015)

Country	No. of Repositories	No. of Contents	Country	No. of Repositories	No. of Contents
Japan (East Asia)	145	2,023,198	Singapore (Southeast Asia)	4	65,138
India (South Asia)	68	487,039	Georgia (Southwest Asia)	3	82,640
Taiwan (East Asia)	58	1,541,136	Pakistan (South Asia)	3	12,650
Turkey (Southwest Asia)	45	117,197	Hong Kong (East Asia)	2	6,925
China (East Asia)	39	718,674	Kazakhstan (Central Asia)	2	11,441
Indonesia (Southeast Asia)	38	433,309	Kyrgyzstan (Central Asia)	2	1,505
Korea, Republic of (East Asia)	22	1,383,294	Azerbaijan (Southwest Asia)	2	2,547
Malaysia (Southeast Asia)	21	211,775	Israel (Southwest Asia)	2	276
Bangladesh (South Asia)	9	11,065	Qatar (Southwest Asia)	1	3,208
Thailand (Southeast Asia)	9	26,252	Lebanon (Southwest Asia)	1	1,226
Saudi Arabia (Southwest Asia)	7	32,055	Viet Nam (Southeast Asia)	1	1,860
Philippines (Southeast Asia)	6	4,366	Nepal (South Asia)	1	95
Iran (Southwest Asia)	5	17,580	Iraq (Southwest Asia)	1	10
Sri Lanka (South Asia)	4	17,185	Afghanistan (Central Asia)	0	–

(Cho, 2017)



http://www.opendoar.org/countrylist.php?cContinent=Asia

Table . Number of Open Access IR and Software Used in Southeast Asian countries

Country	No. of IR (Institutions)	Software Used				
		Eprints	DSpace	Greenstone	Digital Commons	Others / Not Specified
Indonesia	70 (55)	54	9	-	-	7[a-g]
Lao PDR	1 (1)	-	1	-	-	-
Malaysia	22 (16)	16	4	1	-	1[g]
Myanmar	2 (2)	-	2	-	-	-
Philippines	7 (7)	-	5	1	1*	-
Singapore	5 (4)	-	3	-	1	1[h]
Thailand	12 (11)	-	11	-	-	1[i]
Vietnam	1 (1)	-	1	-	-	-
TOTAL	**120 (65)**	**70**	**36**	**2**	**2**	**10**

[a]SLIMS Senayan | [b]Ispektra | [c]Django | [d]GAE | [e]Open Repository | [f]JSP-MySQL-Alfresc | [g]Unspecified | [h]Dataverse Network | [i]IR+

Source: (University of Nottingham - *Open*DOAR, n.d.) – as of Aug 2018

*to be confirmed - WMSU – Digital Commons/Eprints

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Repositories - Thailand

Repository name	Num. Recs.	Pubs	Confs	Thesis	Unpub	Other	Base URL	Software
Dspace SSRU	765			+				DSpace
Intellectual Repository of Rajamangala University of Technology Lanna	229				+			DSpace
Khon Kaen University Institutional Repository	4122	+		+		+	OAI	DSpace
Knowledge, Imaginary, Discovery, Sharing	2115	+				+		DSpace
Moral Center Digital Repository	754	+	+			+	OAI	DSpace
NSTDA Knowledge Repository	2556	+	+	+		+		DSpace
PSU Knowledge Bank	9847			+			OAI	DSpace
Rajamangala University of Technology Phra Nakhon Intellectual Repository	2045		+		+	+		DSpace
Research+rmuts	145			+	+	+		IR+
Suranaree University of Technology Intellectual Repository	6636	+	+	+	+	+	OAI	DSpace
Thai Agricultural Research Repository (เครือข่ายสารสนเทศงานวิจัยเกษตรไทย)	3751		+		+	+	OAI	DSpace
Thai Breastfeeding Center Digital Repository	246		+		+			DSpace

Repositories - Singapore

Repository name	Num. Recs.	Pubs	Confs	Theses	Unpub	Other	Base URL	Software
Digital Repository at Nanyang Technological University	27382		+				OAI	DSpace
DR-NTU (Data)	264					+		Dataverse Network
DSpace at School of Computing, NUS	409			+	+	+		DSpace
Institutional Knowledge at Singapore Management University	18259	+	+	+	+	+	OAI	Digital Commons
ScholarBank@NUS	105817		+	+		+	OAI	DSpace

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Important Organizations in Open Access (Asia and the Pacific and Arab States)

Asia and the Pacific

- Centre for Internet and Society
- CreativeCommons Asia
- Korea Institute of Science and Technology Information (KISTI)
- Open Society Foundations
- PAN Asia Networking Distance and Open Resource Access
- SAARC Documentation Centre

Arab States

- Hindawi Publishing Corporation
- King Saud University
- Qatar Foundation
- The Library of Alexandria

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

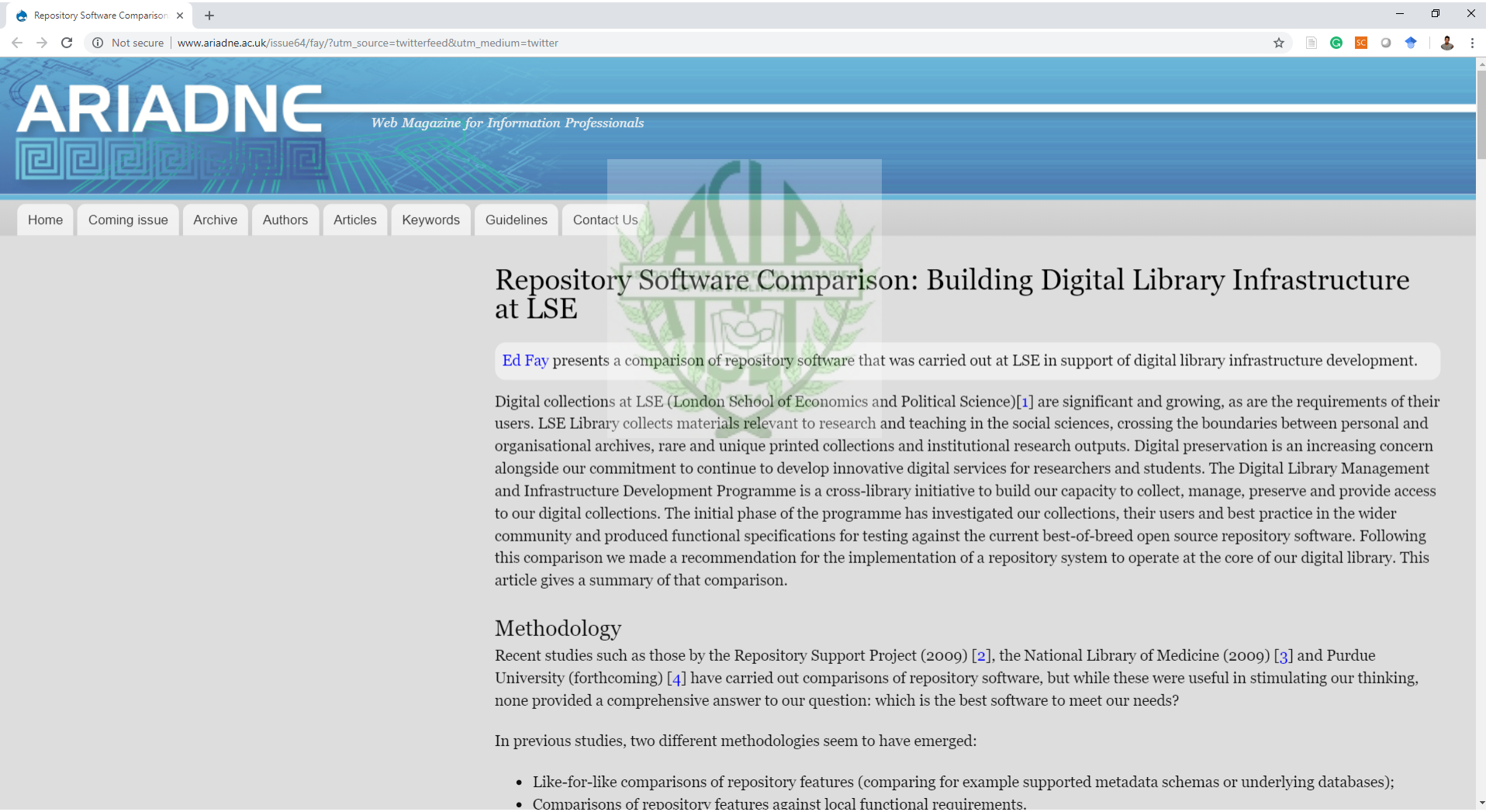
MALAYSIA

MAJOR REGIONAL PROJECTS AND INITIATIVES

- Creative Commons Malaysia
- Digital Library of Malay Manuscripts
- International Islamic Digital Library
- MSC National ICT Initiative
- Digital Library of Malay Manuscripts
- Siti Hasmah Digital Library
- Tan Sri Dr Adbullah Sanusi Digital Library
- u-Pustaka Portal

http://www.unesco.org/new/en/communication-and-information/portals-and-platforms/goap/access-by-region/asia-and-the-pacific/malaysia/

Repository Software Comparison



Details of LSE Library digital collections – (Fay, 2010)

Material Type	Existing Systems	Functional Requirements
Digitisation projects • Images • Multi-page text • Maps (including geo-data)	Presentation through institutional CMS, custom Web sites and 3rd-party provision.	• Presentation through rich multi-media Web and mobile interfaces • Discovery, search and browse • Preservation storage of master image files
Born-digital archives • Any file formats and structures	Storage on original physical media and server (RAID, tape backup). Description in archives management system.	• Preservation storage of born-digital archive deposits • Integration with existing collection management systems • Future integration with library discovery systems and multimedia presentation interfaces
Research outputs • Mostly PDF, office formats • Increasingly video, audio	Comprehensive collection management in mature EPrints repository.	• 'Traditional' IR functionality including cataloguing, ingest, discovery, presentation and harvesting to third parties

Listing of the functional areas and testing criteria, and a summary of findings in each area – (Fay, 2010)

Functional Area	Testing Criteria	Summary of Findings
Data Model	• object structures • collections structures • external aggregations	• DSpace and EPrints have restrictive data models (although DSpace is currently more flexible than EPrints) which reduces their ability to hold complex, structured objects. Both would require modification or significant customisation to support the range of digital objects in scope. • Fedora is designed explicitly to be a flexible and extensible digital object store and would support the diversity of digital objects natively, but would require configuration.
Ingest	Ingest • command-line interface • Web interface • machine interface • batch import • custom workflows • metadata capture	• All repositories provide sufficient functionality to support flexible human- and machine-ingest for a range of materials with different workflows, although configuration would be required for all. • All repositories provide sufficient functionality to support digital object management and administration operations on content stored within the repository. • Fedora's flexibility gives it a slight advantage for customisation of ingest workflows.
Data Management	Data Management • bulk updates • audit history	
Administration	Administration • CRUD (Create, Read, Update, Delete) objects	

Listing of the functional areas and testing criteria, and a summary of findings in each area – (Fay, 2010)

Functional Area	Testing Criteria	Summary of Findings
Descriptive Information (Metadata)	• persistent identifiers • human-readable, hierarchical identifiers • support for standards • OAI compatibility	• DSpace and EPrints suffer from a lack of support for identifier schemas (although EPrints is significantly worse) which tends to reduce options for making collection and object identifiers independent from the repository software and human-readable interpretations of collection hierarchies. • Fedora provides sufficient flexibility in its identifier schemas and architecture to support independent, persistent and human-readable identifiers. • All repositories support extensible metadata schemas for the implementation of descriptive and technical metadata (including format-specific and preservation metadata) and OAI compatibility.
Storage	• file system structures •integrity checking	• DSpace and EPrints suffer from a lack of attention to preservation storage, both requiring the maintenance of the repository software and environment to retrieve digital objects in the event of a hardware or software failure. • Fedora supports the storage of digital objects independent of the repository, which is preferable for preservation purposes.
Access	• batch export • Web front-end • API/URI schemas • indexing engine • access control approach • authorisation • authentication	• DSpace and EPrints have limitations in their access functionality. Both provide out-of-the-box front-ends which are designed for open access publications, and which would require modification to support digitised collections and born-digital archives. Their machine interfaces to support the development of independent Web applications are also limited. • Fedora comes with no front-ends out-of-the-box, which would require the use of third-party front-ends (of which several exist for Fedora) or custom in-house development. Fedora provides multiple machine interfaces to support the development of independent Web applications and the exposure of content to the Web of linked data. • While all repositories provide sufficient functionality to control access to content at granular levels, Fedora's use of XACML (Extensible Access Control Markup Language) makes its access control more easily configurable. All repositories come with support or plugins for authentication using LDAP (Lightweight Directory Access Protocol), Shibboleth and CAS (Central Authentication Service).

Institutional repository software comparison: DSpace, EPrints, Digital Commons, Islandora and Hydra

Michel Castagné

University of British Columbia

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES
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July 2013

NATIONAL LIBRARY OF MEDICINE

Recommendations on NLM Digital Repository Software

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES
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Prepared by the
NLM Digital Repository Evaluation and Selection Working Group

Submitted December 2, 2008

ArchivalWare

- Developed by: PTFS (commercial)
- Advantages:
  - Strong search capabilities.
- Risks:
  - Small user population.
  - Reliability and development path of vendor unknown.

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CONTENTdm

- Developed by: University of Washington and acquired by OCLC in 2006 (commercial)
- Advantages:
  - Good scalability.
- Risks:
  - No interaction with third party systems.
  - Data stored in proprietary text-based database and does not accommodate Oracle.
  - Development path of vendor unknown.

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NLM Digital Repository Evaluation and Selection Working Group, 2008

DAITSS

- Developed by: Florida Center for Library Automation (FCLA) (open source) and released under the GNU GPL license as a digital repository system for 11 public universities.
- Advantages:
  - Richest preservation functionality.
- Risks:
  - Back-end/archive system.
  - Must use DAITSS in conjunction with other repository or access system.
  - Planned re-architecture over next 2 years.
  - Limited use and support; further development dependent on FCLA (and FL state legislature).

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DSpace

- Developed by: MIT Libraries and HP Labs (open source) as one of the first open source platforms created for the storage, management, and distribution of collections in digital format.
- Advantages:
  - "Out-of-the-box" open source solution.
  - Provides some functionality across all functional requirements.
  - Community is mature and supportive.
- Risks:
  - Planned re-architecture over next year.
  - Current version's native use of Dublin Core metadata is somewhat limiting.

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EPrints

- The Subgroup decided to discontinue the evaluation due to EPrints (open source) lack of preservation capabilities and its ability to only provide a small-scale solution for access to pre-prints.

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Fedora

- Developed by: University of Virginia and Cornell University libraries (open source).
- Advantages:
  - Great flexibility to handle complex objects and relationships.
  - Fedora Commons received multi-million dollar award to support further development.
  - Community is mature and supportive.
- Risks:
  - Complicated system to configure according to NLM research and many users.
  - Need additional software for fully functional repository.

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Greenstone

- Developed by: Cooperatively by the New Zealand Digital Library Project at the University of Waikato, UNESCO, and the Human Info NGO (open source).
- Advantages:
  - Long history, with many users in the last 10 years.
  - Strong documentation with commitment by original creators to develop and expand.
  - Considered "easy" to implement a simple repository out of the box.
  - DL Consulting available for more complex requirements.
  - Compatible with most NLM requirements.
- Risks:
  - Program is being entirely rewritten (C++ to Java) to create Greenstone 3. Delivery date unknown.
  - Development community beyond the originators is not as rich as other open source systems.
  - DL Consulting recently awarded grant "to further improve Greenstone's performance when scaled up to very large collections" -- implies it may not do so currently.
  - Core developers and consultants in New Zealand.

Keystone DLS

- Developed by: Index Data (open source).
- Advantages:
  - Some strong functionality.
- Risks:
  - Relatively small user population.
  - Evaluators felt it should be strongly considered only if top 3 above are found inadequate.
  - No longer actively being developed as of August 2008.

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VITAL

- Developed by: VTLS, Inc. (commercial) as a commercial digital repository product that combines Fedora with additional open source and proprietary software and provides a quicker start-up than using Fedora alone.
- Advantages:
  - Vendor support for Fedora add-ons.
- Risks:
  - Vendor-added functionality may be in conflict with open-source nature of Fedora.

Appendix B - Results of Qualitative Evaluation of Initial 10 Systems

Final Systems Evaluation Matrix **Last updated: September 25, 2007**

		Type (open source, vendor)	Advantages	Risks	For further investigation	Notes
Top contenders	Fedora	Open source	Great flexibility to handle complex objects and relationships. Fedora Commons received multi-million dollar award to support further development. Community is mature and supportive.	Complicated system to configure according to our research and many users. Need additional software for fully functional repository.		
	DigiTool (Ex Libris)	Vendor	"Out-of-the-box" solution with known vendor support. Provides good overall functionality. Has ability to integrate and interact with other NLM systems.	Scalability and flexibility may be issues. NLM may be too dependent on one vendor for its library systems.	Ingest issues	
	DSpace	Open source	"Out-of-the-box" open source solution. Provides some functionality across all functional requirements (7.1-7.6) Community is mature and supportive.	Planned re-architecture over next year. Current version's native use of Dublin Core metadata somewhat limiting.		
Further evaluation and discussion needed	DAITSS	Open source	Richest preservation functionality	Back-end/archive system. Must use DAITSS in conjunction with other repository or access system. Planned re-architecture over next 2 years. Limited use and support; further development dependent on FCLA (and FL state legislature)	If selected for testing, code base needs examination for robustness.	

Table 1. Main characteristics of surveyed software solutions.

Software	Authors' classification	Latest Version/ Release Year	Licensing	Author(s)
Archimède[30]	Institutional Repository	2.0 2006	GPLv2	Bibliothèquede l'UniversitéLaval, France
Archivematica[32]	Digital PreservationSystem	1.6 2016	AGPLv3	Artefactual, Canada
DAITSS [31]	Digital Preservation Repository System	2.4.20 2014	GPLv3	Florida Center for Library Automation, Florida, USA
DSpace[33]	Institutional Repository	6.0 2016	BSD 3-Clause [34]	DuraSpace, Oregon, USA
EPrints[35]	Institutional Repository	3.4 2016	GPLv3	University of Southampton, UK
Fedora [36]	Digital Repository	4.6.0 2016	Apache 2	Fedora Community; DuraSpace Oregon, USA
Greenstone [37]	Digital Repository	3.0.7 2016	GPLv2	New Zealand Digital Library Project University of Waikato New Zealand
Invenio[38]	Digital Library / Document Repository	3.0 2016	GPLv2	CERN; DESY; EPFL; FNAL; SLAC
LOCKSS [39]	Library-led Digital Preservation System	1.70.2-1 2016	BSD	Stanford University California, USA
RODA [40]	Digital Repository	1.2.0 2016	LGPLv3	Keep Solutions; University of Minho, Portugal
Xena[41]	Digital Preservation Software	6.1.0 2016	GPLv3	The National Archives of Australia

Criteria for Evaluating Institutional Repository Platforms

- Goals
- Budget
- Staffing
- Structure
- Administration
- Metadata
- Interoperability
- Support
- Long term issue
  - The purpose and the appeal of the services – accessibility and endurance

(Nabe, 2010)

Open Source Software

- DSpace
- Eprints
- Fedora

(Nabe, 2010)

Commercial Providers

- Digital Commons
- Open Repository
- CONTENTdm®
- DigiTool

(Nabe, 2010)

DSpace

- Developed between 2000-2002 by Massachusetts Institute of Technology (MIT) and Hewlett-Packard (HP)
- Is far and above the most common repository platform implemented worldwide
- Preeminent positon in the repository platforms in the United States

(Nabe, 2010)

DSpace

The DSpace Open Source Digital Asset Management System: Challenges and Opportunities

Robert Tansley[1], MacKenzie Smith[2], and Julie Harford Walker[2]

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Abstract. Last year at the ECDL 2004 conference, we reported some initial progress and experiences developing DSpace as an open source community-driven project [8], particularly as seen from an institutional manager's viewpoint. We also described some challenges and issues. This paper describes the progress in addressing some of those issues, and developments in the DSpace open source community. We go into detail about the processes and infrastructure we have developed around the DSpace code base, in the hope that this will be useful to other projects and organisations exploring the possibilities of becoming involved in or transitioning to open source development of digital library software. Some new challenges the DSpace community faces, particularly in the area of addressing required system architecture changes, are introduced. We also describe some exciting new possibilities that open source development brings to our community.

1 Introduction

DSpace is a digital asset management system, most commonly used as an institutional repository system by research universities. The system was initially developed by a joint HP and MIT Libraries development team. Since its release in November 2002, it has achieved widespread adoption; at the time of writing there are well over 100 DSpace instances running distributed among all of the continents in the world.

Both HP and MIT Libraries had the same original goal of building DSpace to discover what it takes to build and deploy a repository system to capture, preserve and disseminate an organisation's born-digital assets. It was clear from the start that this goal was not unique to HP and MIT Libraries, and that there are several compelling reasons for pursuing an open source development model:

– It was clearly not sustainable for HP and MIT Libraries to support the entire community of DSpace users. An open source model allows each organisation to customise the platform for their own particular local requirements, and to enable these customisations to be shared as appropriate;

A. Rauber et al. (Eds.): ECDL 2005, LNCS 3652, pp. 242–253, 2005.
© Springer-Verlag Berlin Heidelberg 2005

DSpace

Pros

- Has the largest support group in the world
- The best online support available
- The large user base means many people are working on new features and add-ons
- High degree of customization allowed

Cons

- Significant technical skills are required
- Use statistics are inadequate (in 2010)

(Nabe, 2010)

Eprints

- Released in 2000
- Developed at the School of Electronics and Computer Science at the University of Southampton, UK
- Holds 2nd place among repository platforms
- Most common choice in Europe

(Nabe, 2010)

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Eprints

Pros

- Easy to install
- Various support packages make it an option for a variety of institutions

Cons

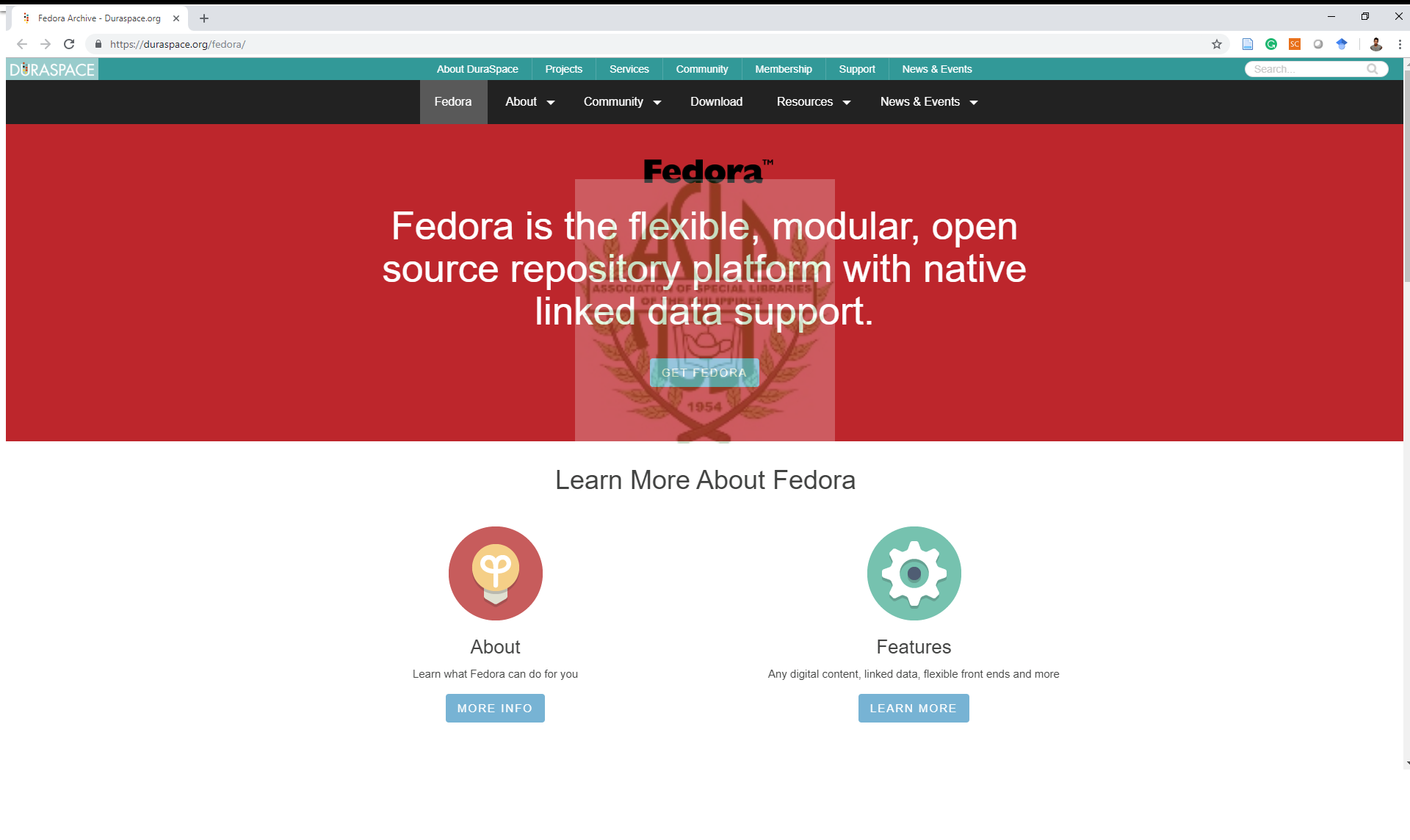
- Making changes to the repository, including adding new groups, is involved
- Use statistics modules are difficult to implement
- It is not, by strict definition, an open source platform
  - Do not allow access and modification of the code
  - It is possible, however, to contribute plug-ins and scripts.

(Nabe, 2010)

Fedora (Repository)

- Released in 2002 (Beta); First public release 2003
- Developed by University of Virginia and Cornell University
- Flexible Extensible Digital Object and Repository Architecture (Fedora)
- Not an IR *per se*, but an architecture on which many digital services can be built, including an IR.

(Nabe, 2010)


Fedora Archive - Duraspace.org
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Fedora (Repository)

Pros

- The power and flexibility of Fedora have impressed everyone who has explored it, but few have gone on to implement it

Cons

- requires an extraordinary amount of technical support and significant upfront planning and development
- There is little or no support available

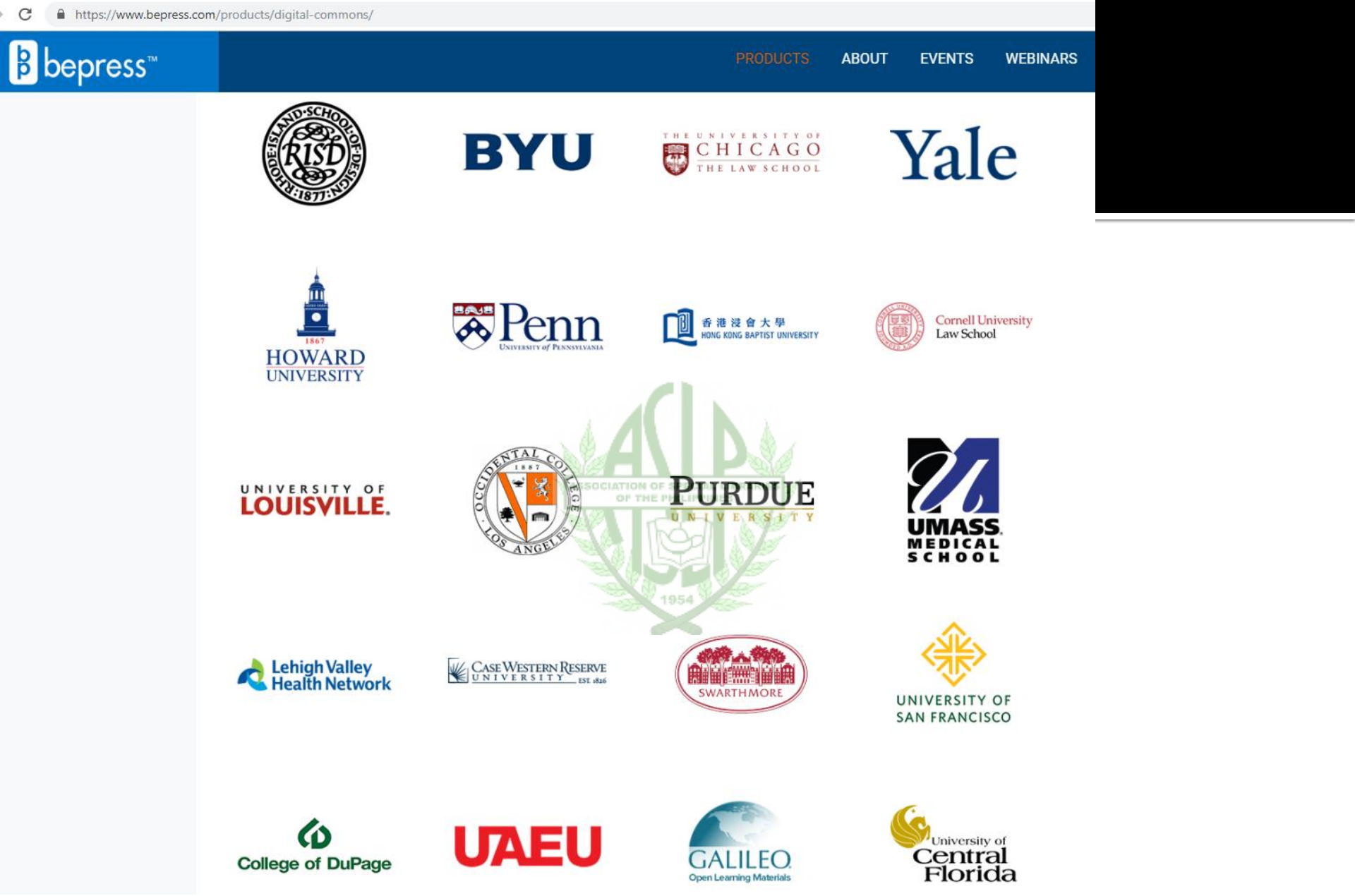
(Nabe, 2010)

Digital Commons

- A commercial platform offered by Bepress.
- Bepress (Berkeley Electronic Press) was originally formed to create a journal publishing platform at the University of California, Berkeley.
- Bepress has the full responsibility for servers for Digital Commons repositories
- Digital Commons structure is similar to that of DSpace.
- 2004 to July 2007, Digital Commons was licensed exclusively by ProQuest Information and Learning and benefited from the latter's extensive working with libraries
- July 2007, bepress resumed licensing Digital Commons directly to subscribers
- August 2017, Elsevier acquired bepress
- Over 500 institutions use Digital Commons

https://www.bepress.com/products/digital-commons

(Nabe, 2010)



https://www.bepress.com/products/digital-commons/

Digital Commons

Unlimited model - meant to help client serve the needs of the entire campus without tapping any IT resources.

- Unlimited consultation and support
- Unlimited publications, including journals, books, and special collections
- Unlimited storage
- Unlimited custom branding and redesigns
- Unlimited file size and type

https://www.bepress.com/products/digital-commons/why-digital-commons/

Digital Commons

- Flexible, beautiful presentation for everything a campus produces
  - *Huge datasets? Student journals? Archival images?*

Digital Commons is being used for:

- Faculty Scholarship & Research
- Student Work & ETDs
- Journal Publishing
- Data Management
- Conferences & Events
- Open Educational Resources & Books
- Archives & Special Collections

https://www.bepress.com/products/digital-commons/why-digital-commons/

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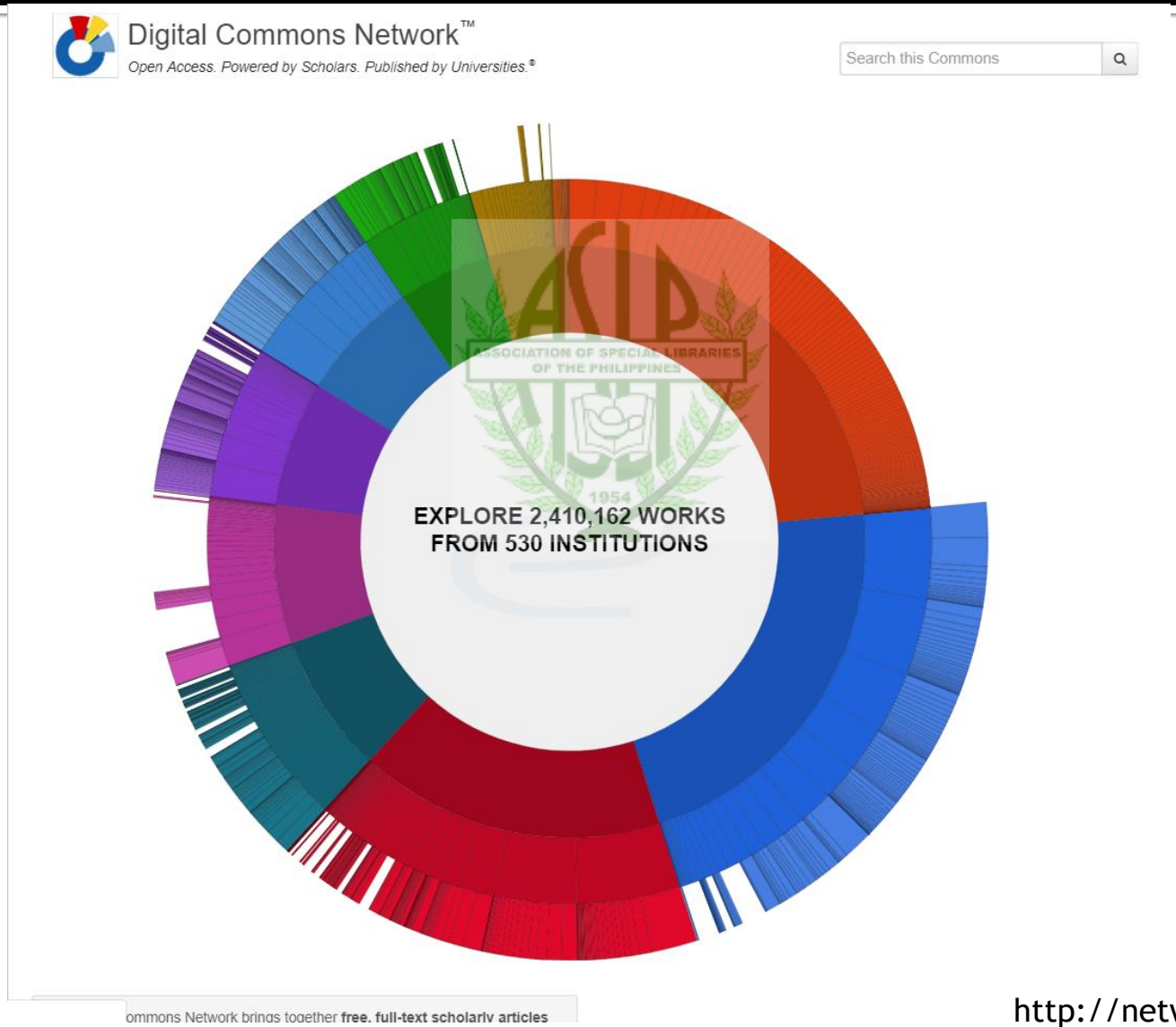

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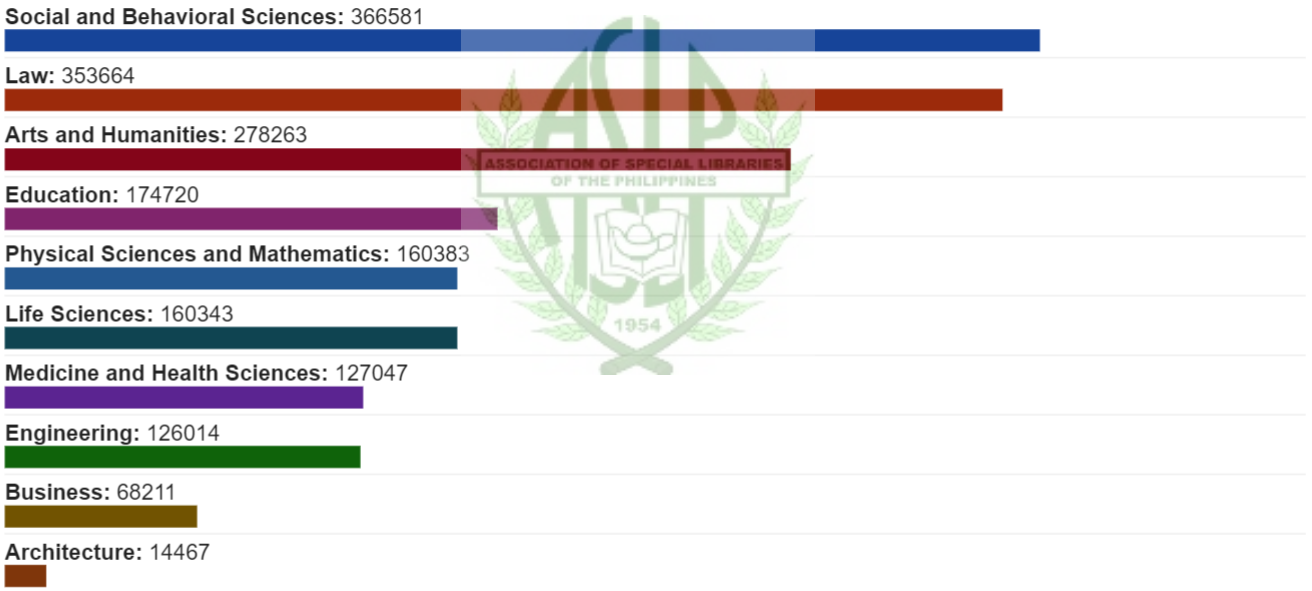

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES 1954

The Digital Commons Network brings together **free, full-text scholarly articles** from hundreds of universities and colleges worldwide. Curated by university librarians and their supporting institutions, the Network includes a growing collection of peer-reviewed journal articles, book chapters, dissertations, working papers, conference proceedings, and other original scholarly work.

Digital Commons

Pros

- No onsite servers or technical support are required.
- There is a significant user community for advise and support.
- The journal publishing support is unique and well tested
- A repository can be made live quickly
- Regular automated delivery of statistics to authors helps sell the IR to contributors.

Cons

- Is not cheap
- While institutional branding is easy, other customization seems to be increasingly discouraged and inflexible templates more common.
- Bepress formed a working partnership with ProQuest and benefited from the latter's extensive working with libraries
- As with any commercial provided, there is always vulnerability to mergers and acquisitions.

(Nabe, 2010)

Elsevier acquires bepress, a leadi
https://www.elsevier.com/about/press-releases/corporate/elsevier-acquires-bepress,-a-leading-service-provider-used-by-academic-institutions-to-showcase-their-research

Elsevier acquires bepress, a leading service provider used by academic institutions to showcase their research

Bepress to benefit from Elsevier's technology and analytics to expand offerings to more institutions, while helping Elsevier drive further adoption of its research data management tools

Share this:

New York, August 2, 2017

Elsevier, the global information analytics business specializing in science and health, today acquired bepress, a Berkeley, California-based business that helps academic libraries showcase and share their institutions' research for maximum impact. Founded by three University of California, Berkeley professors in 1999, bepress allows institutions to collect, organize, preserve and disseminate their intellectual output, including preprints, working papers, journals or specific articles, dissertations, theses, conference proceedings and a wide variety of other data.

"Academic institutions want to help researchers share their work, showcase their capabilities and measure how well they're performing," said Jean-Gabriel Bankier, bepress CEO. "Now with Elsevier we'll be stronger and better by applying more technologies and data and analytics capabilities to help more institutions achieve their research goals."

Showcasing research is critical as competition increases among institutions to secure funding and attract faculty and students. By joining Elsevier, bepress will be better able to address institutions' promotional needs, such as attracting students, faculty and grants, and preserving research data and outputs. Elsevier's suite of research products, such as Scopus, Pure, SSRN and SciVal will enhance the breadth and quality of the reach, promotion and impact services bepress delivers to its customers.

"Bepress has led the way in helping institutions showcase their work," said Olivier Dumon, Managing Director for Research Products at Elsevier. "We are pleased to welcome bepress to Elsevier and look forward to doing great things together."

The academic community relies on tools to support more efficient and productive work. Bepress's Digital

Elsevier Acquires the Social Science Research Network (SSRN), the Leading Social Science and Humanities Repository and Online Community

SSRN will be further developed with Mendeley, Elsevier's scholarly collaboration network, to provide users with leading content, data linking, enhanced metrics and researcher workflow tools, while Mendeley accelerates its social community strategy.

ASSOCIATION OF SPECIAL LIBRARIES 1954

London, May 17, 2016

Elsevier, a world-leading provider of scientific, technical and medical information products and services, announced today the acquisition of the Social Science Research Network (SSRN) . Founded in 1994, SSRN is a Rochester, NY-based scholarly research preprint repository and online community. SSRN will be further developed alongside Mendeley, a London-based free reference manager and scholarly collaboration network owned by Elsevier.

SSRN members will benefit from the Mendeley technology platform, its scholarly collaboration network, a leading reference manager and other personal library management tools. Additionally, SSRN members will benefit from access to Mendeley's researcher professional profile capabilities, person to person network communications and "follow" capabilities. For Elsevier and Mendeley, adding SSRN accelerates its social community strategy, bringsopportunities forenhanced author relationships, and provides access to a leading resource for content.

"Our goal is to further enhance engagement within and around a SSRN member's academic work, while still providing the same core services that our members value and expect," said Gregg Gordon, President and CEO, SSRN. "Mendeley has thrived since obtaining the support of the world's largest science publisher, and now we will be able to offer broader services that more deeply integrate into the workflows of all parties in the social network of science. Most importantly, we will continue our core mission of providing researchers with free submissions and free downloads."

CONTENTdm®

CONTENTdm®

- A product of OCLC
  - Offers the benefits of years of development with close consultation with libraries
- Full asset management application, typically employed for an institution's entire set of digital collections, not just for IR
- However, It was built for and works well only with images

(Nabe, 2010)

CONTENTdm®

CONTENTdm®

Pros

- The different licenses and hosting solutions make it a flexible option
- The large library user community
- The tie-ins with other OCLC products and services add value for library implementers.
- For repositories with an emphasis on image files, there may be no better choice.

Cons

- Is priced as a digital collection management system.
- For those not already employing, it may be a prohibitively expensive option
- The need for acquisition software for submissions makes decentralized submission problematic
- Creation and manipulation of the hierarchical structure are limited
- Support for text and other content types has not been well developed (as of 2010)

(Nabe, 2010)

DigiTool

DigiTool

- A digital asset management system, often used for digital collections beyond the typical IR.
- A product of Ex Libris
  - Functions best with their integrated library system, Aleph
  - The ability to use this ILS, via the catalog, to access information within the repository is the strongest selling point
- Information regarding the system is hard to come by except through formal channels with Ex Libris

DigiTool

DigiTool

Pros

- Integration with the suite of Ex-Libris products can be advantageous for some institutions
- Costumer support is good, though expensive
- Batch loading is fast and efficient

Cons

- The price is high
- Concerns of ownership and profits restrict sharing of information and experiences.
- There is no notification of download numbers
- No support for individual faculty pages

(Nabe, 2010)

Open Repository

- A commercial platform offered by BioMed Central
- Has established some market share, particularly in the US
- It may be an option for those seeking a commercial service but unable to afford.
- Its status is up in the air, because BioMed Central was acquired by Springer in 2008.
- Atmire acquires Open Repository in 2016

(Nabe, 2010)

Open Repository, from Atmire of

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OpenRepository

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What we do

We'll set you up with a repository that's ready to go. All you need to do is focus on your content and users.

Repository Software

Enhanced DSpace platform. We added a range of powerful features for visitors and admins.

Hosting

Test, production, standby & backup infrastructure. All hosted on fast and reliable cloud servers.

Services & Support

Repository setup, technical maintenance and support: the help of our global team is just a click away.

Open Repository

Pros

- DSpace has a large development network, which continuously improves this product
- Implementation can be quick and painless and cheaper that most other platform

Cons

- Although implementation can be done cheaply, additional space is quite expensive.
- It has a minimal track record.

(Nabe, 2010)

Atmire acquires Open Repository

https://www.biomedcentral.com/about/press-centre/business-press-releases/01-08-16

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Atmire acquires Open Repository

Monday 1st August 2016: Atmire NV has entered into an agreement to acquire Open Repository, BioMed Central's repository service for academic institutions, charities, NGOs and research organisations.

Under the agreement, Atmire will take over management and support of all Open Repository customers effective from today. The acquisition adds to Atmire's client base of institutions using DSpace (an open source repository software package typically used for creating open access repositories) and allows BioMed Central to focus on its core business concerns.

There will be no break in service for Open Repository customers, who will now have access to Atmire's support team.

Lieven Droogmans, CEO Atmire said: "A full turnkey hosted DSpace solution like Open Repository perfectly complements our existing offering of DSpace services. It is an exciting opportunity to develop the future of hosted DSpace repository services based on the pioneering work of Open Repository in this area."

Rachel Burley, Publishing Director BioMed Central said: "Open Repository has gone from strength to strength, but as the volume of open access papers we publish increases we want to concentrate our efforts on our core business. We are certain that Atmire, as leading experts in DSpace services, are best placed to take Open Repository forward."

While ensuring continuity in the support of existing Open Repository clients, Atmire is

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Others

- CDS Invenio
- Greenstone
- VITAL
- ETD-db
  - This is the ETD database software developed at Virginia Tech, which we make freely available to members of the Networked Digital Library of Theses and Dissertations (NDLTD).

(Nabe, 2010)

Greenstone

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greenstone digital library software
en fr ru es ro ar ja kk
Home Download Examples Wiki Support Translators Developers
Greenstone Factsheet
Greenstone Blog
Workshop Map
Greenstone 2.87 released
Monday 2nd October, 2017
Category: Greenstone2
We recommend that Greenstone users shift to Greenstone 3, as that's the future of Greenstone. But for those who really need Greenstone 2, we've now brought out a maintenance release of it with Greenstone 2.87. You can grab the new GS 2.87 binaries, and source component and source distributions packages from the downloads page. The release notes include [...]
Greenstone 3.08 released
Wednesday 3rd May, 2017
Category: Greenstone3
Greenstone 3.08 was released November 2016 (oops, what a late blog entry!) You can grab the binaries, source components and source distributions from the downloads page. The release notes include the installation instructions. There are instructions for helping you port Greenstone2 collections to Greenstone3. To familiarise yourself with how things are done in Greenstone3, follow along with [...]
GTI has moved
Thursday 7th July, 2016
Category: Other News
The GTI (Greenstone Translator Interface) is a Greenstone installation providing a web-based
About Greenstone
Greenstone is a suite of software for building and distributing digital library collections. It provides a way of organizing information and publishing it on the web or on removable media such as DVD and USB flash drives. Greenstone is produced by the New Zealand Digital Library Project at the University of Waikato, and developed and distributed in cooperation with UNESCO and the Human Info NGO. It is open-source, multilingual software, issued under the terms of the GNU General Public License. Read the Greenstone Factsheet for more information.
The aim of the Greenstone software is to empower users, particularly in universities, libraries, and other public service institutions, to build their own digital libraries. Digital libraries are radically reforming how information is disseminated and acquired in UNESCO's partner communities and institutions in the fields of education, science and culture around the world, and particularly in developing countries. We hope that this software will encourage the effective deployment of digital libraries to share information and place it in the public domain. Further information can be found in the book How to build a digital library, authored by three of the group's members.
This software is developed and distributed as an international cooperative effort established in August 2000 among three parties:
New Zealand Digital Library Project at the University of Waikato
NZDL
Greenstone software grew out of this project, and this initiative has been endorsed by the Communication Sub-Commission of the New Zealand National Commission for UNESCO as part of New Zealand's contribution to UNESCO's programme.
The Greenstone project is the seventh recipient of the biennial Namur award, which recognizes recipients for raising awareness internationally of the social implications of information and communication technologies.
United Nations Educational, Scientific and Cultural Organization
UNESCO
The dissemination of educational, scientific and cultural information throughout the world, and particularly its availability in developing countries, is central to UNESCO's goals as pursued within its intergovernmental Information for All Programme, and appropriate, accessible information and communication technology is seen as an important tool in this context.
UNESCO is running regional training workshops on the use of Greenstone.

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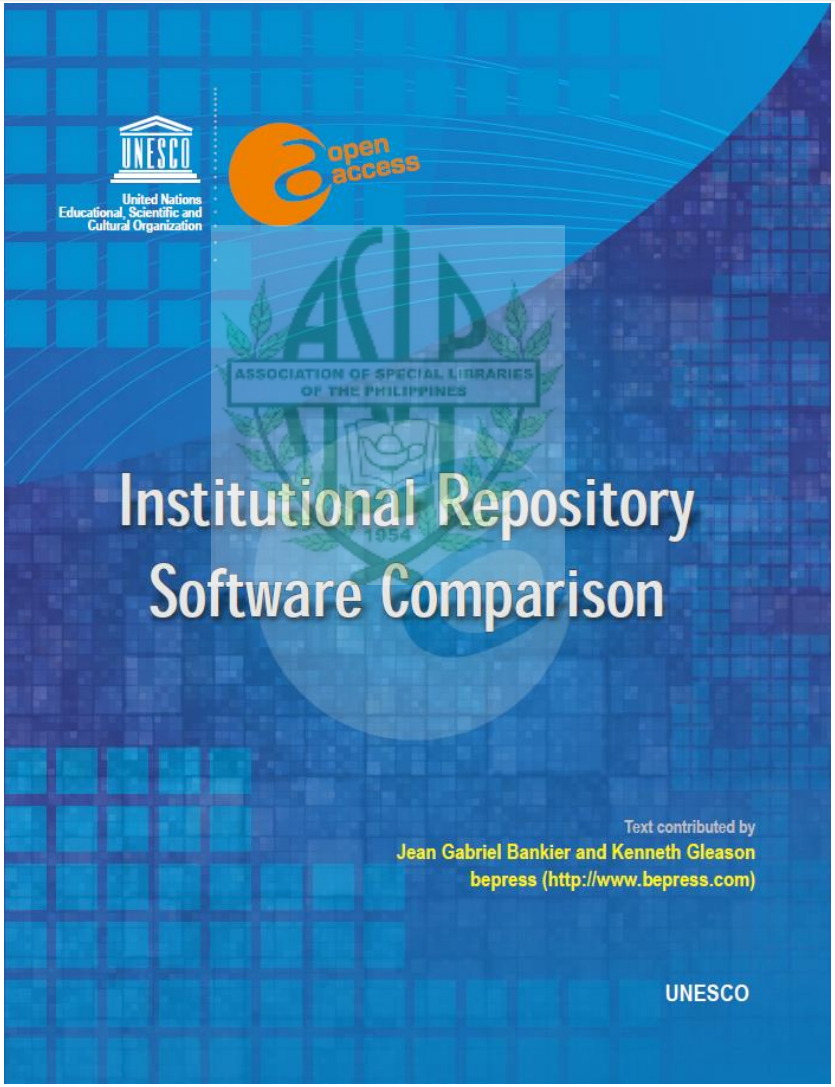
Vital is a revolutionary repository solution that lives and grows with your university, library, museum, archive, or information center. Designed to simplify the development of your repositories and to provide seamless online search and retrieval of information for library staff, contributing faculty, and end-users, Vital focuses on the individual needs of users in order to broaden access to institutions and their collections. Vital delivers value, flexibility, and a highly customizable solution for managing the digital resources of any type of information center.

Case Study: Building Relationships-Kansas City Public Library's Award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United Nations
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open access
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Institutional Repository
Software Comparison
Text contributed by
Jean Gabriel Bankier and Kenneth Gleason
bepress (http://www.bepress.com)
UNESCO

A comparison of the five most widely adopted IR platforms: Digital Commons, Dspace, Eprints, Fedora, and Islandora

- the potential high cost of ongoing development and maintenance of locally-hosted software has led many institutions to move to hosted options.
- The fear of lock-in associated with specific solutions has also faded due to the success of interoperability tools, such as OAI-PMH, available on each of the platforms.
- IR managers, sometimes on their second or third IR platform, can attest to the relative ease with which one can move from one platform to another.

12 categories to help librarians identify the features that are most important to building a successful IR

- **Infrastructure:** Starting with the fundamental features of the repository platforms, the Infrastructure section covers installation, hosting, and customer support options.
- **Front-end Design:** The reader-facing, front-end design reflects institutional branding as well as how the reader interacts with the repository. Integrated front-ends, customizable repository designs, and mobile-optimized pages help ensure an optimal browsing experience.
- **Content Organization & Control:** Librarians interested in how each platform supports content, access controls, and repository structure will find relevant information here.
- **Content Discovery:** Identifying the key features that increase the visibility of the repository's content, Content Discovery covers tools and options that help readers and researchers discover scholarship.

(Bankier & Gleason, 2014)

12 categories to help librarians identify the features that are most important to building a successful IR

- **Publication Tools:** Librarians and editors evaluating publishing options will discover and compare the necessary tools such as peer review, batch import, metadata options, and editorial workflows to publish high quality scholarship directly to the repository.
- **Reporting:** Providing feedback to administrators, editors, authors, and stakeholders is a crucial aspect of a successful repository program. This category outlines the reports available on each platform.
- **Multimedia:** A modern feature of the repository, Multimedia compares how each platform manages images, video, and streaming services that add greater depth to collections.
- **Social Features and Notifications:** Building on discoverability and search engine optimization, the social features of the repository provide a modern approach to engaging readers by providing tools to follow, share, and bookmark scholarship in the repository.

(Bankier & Gleason, 2014)

12 categories to help librarians identify the features that are most important to building a successful IR

- **Interoperability:** Beginning with Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH), the repository was built with dissemination in mind. The Interoperability category examines how each platform integrates with discovery services, researcher profiles, and other repositories hosted on the same platform.
- **Authentication:** Although the majority of repository content is open access, institutional login credentials remain an important aspect of how readers and researchers access content across campus systems and the repository.
- **Accessibility:** The ability to offer access to those with varying abilities and disabilities is a fundamental feature of the repository. VPAT statements and section 508 compliance show how each repository platform offers access to as many readers and researchers as possible.
- **Preservation:** From LOCKSS-compliance to format migration, the preservation category examines how each of the repository offerings preserves and maintains repository content.

(Bankier & Gleason, 2014)

Lots of Copies Keep Stuff Safe (LOCKSS)

- developed at Stanford, is a library-focused, open source system that allows the preservation of subscription-based material as well as open access content.
- The peer-to-peer LOCKSS system keeps copies of scholarship across a network of institutions to preserve and disseminate content if the original publisher or repository ceases to exist.
- LOCKSS support is an inexpensive yet reliable method of preserving repository scholarship.

Infrastructure					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Hosted Solution	Yes	Yes	Yes	Yes	Yes
Locally Installed Software Solution	-	Yes	Yes	Yes	Yes
Customer Support/ Community Support	Customer support: Email, phone, resource, and community support	Community support	Community support	Community support	Community support
Flexible Repository Structure	Yes	Limited	Yes	Limited	Yes
Simple and Qualified DublinCore Metadata	Yes	Yes	Simple Dublin Core only	Yes	Yes
Customizable Metadata	Yes	Yes	Yes	Yes	Yes
Open Source/ Proprietary	Proprietary	Open Source	Open Source	Open Source	Open Source
Automatic System Upgrades	Yes	–	–	–	–
Current Stable Platform Version	7.6	3.2	3.3.11	3.6.2	6.x-13.1.x and 7.x-1.1
Administrator Configurations	Yes	Yes	Yes	Yes	Yes
Supports Standard User Roles	Yes	Yes	Yes	Yes	Yes

(Bankier & Gleason, 2014)

Front-end Design					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Integrated Front-end	Yes	Yes	Yes	-	Yes
Full-service Front -end Design	Yes	-	-	-	-
Customizable Repository Design	Yes	Yes	Yes	Yes	Yes
Customizable Publication Design	Yes: Journals and Conferences	-	-	-	-
Mobile-optimized Design	Yes	-	-	-	Yes
HTML5 Web pages	Yes	-	-	-	-

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES 1954

(Bankier & Gleason, 2014)

Content Organization & Control					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Open Access Publishing	Yes	Yes	Yes	Yes	Yes
Access Controls	Yes: IP range, user, and domain name	Yes: IP range and user	Yes: User and request a copy	Yes: Customizable XACML	Yes: IP range, user, and customizable XACML
Auto-lift Embargo Support	Yes	Add-on services available	Add-on services available	-	-
Publication Subscription Management	Yes	-	-	-	-
Community Publication	Yes	Yes	-	Yes	Yes
Series/Collection Publication	Yes	Yes	Yes	Yes	Yes
Journal Publication	Yes	-	-	-	-
ETD Publication	Yes	-	-	-	-
Book Publication	Yes	-	-	-	-

(Bankier & Gleason, 2014)

Content Organization & Control					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Conference and Event Publication	Yes	-	-	-	-
Image Gallery	Yes	-	-	-	-
Supports Standard File Types (PDF, MS Word, RTF, etc.)	Yes	Yes	Yes	Yes	Yes
Flexible Document Organization	Yes	-	Yes	Yes	Yes
Customizable Metadata On Article Pages	Yes	Yes	Yes	Yes	Yes
PDF Viewer on Article Page	Yes	Add-on services available	PDF preview hover over available	Add-on services available	Add-on services available
Supplemental/ Additional Article Files	Yes	-	Yes	-	-
Custom Cover Page Stamping	Yes	-	-	-	-
Creative Commons license	Yes	Yes	Yes	Add-on services available	Add-on services available

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES 1954

(Bankier & Gleason, 2014)

Content Discovery					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Integrated Search Engine	Yes	Yes	Yes	Yes	Yes
Advanced Search with Facets	Yes	Yes	-	Yes	Yes
Full Text Search Indexing	Yes	Yes	Yes	Yes	Yes
Browse Options	discipline, community, publication, publication year, document type, author, and institution	communities & collections, publication date, author, title, subject, and document type	department, subject, year	collections and search facets	collections and search facets
Graphical Navigation of content	Image, icon, geolocation, and Discipline Wheel navigation	Add-on services available	Image	-	Image and icon
Geolocation Tools	Yes: Integration with Google Maps	-	Yes: Google Maps export	-	Add-on services available
Search Engine Optimization	Yes	Limited	Yes	-	Add-on services available
Indexed in Google Scholar	Yes	Yes	Yes	-	Add-on services available
DOI and Persistent URLs	Yes: Persistent URL and DOI	Yes: Handle System	Yes: DOI	Yes: Persistent Identifiers	Yes: Persistent Identifiers

(Bankier & Gleason, 2014)

Content Organization & Control					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Citation Export	Yes: Zotero, Endnote, and RefWorks	Yes: COinS support	Yes: BibTeX, refer, Endnote, and additional bibliography managers	Yes: COinS support	Yes: COinS support
Link Resolver Integration	Yes	Yes	Yes	Yes	Add-on services available

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(Bankier & Gleason, 2014)

Publication Tools					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Integrated Peer Review Tools	Yes	-	-	-	-
Role-based Journal Editor Permissions	Yes	-	-	-	-
Flexible Publishing Workflows	Yes	Limited	Yes	Yes	Yes
Customizable Submit Forms	Yes	Yes	Yes	Yes	Yes
Auto-Conversion of Full text files to PDF	Yes	-	-	-	-
Retain Metadata and Full Text Revisions	Yes	-	Yes	Yes	Yes
Batch Import	Yes: XML and Microsoft Excel import tools	Yes: Bibliographic import tool and simple archive format	Yes: BibTeX, XML and additional plugins available	Yes: XML import	Yes
Batch Revision	Yes	Yes	-	-	-
Auto-Collection Tools	Yes	-	-	-	-

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(Bankier & Gleason, 2014)

Reporting					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Editor Reports	Yes	Add-on services available	Add-on services available	Add-on services available	Add-on services available
Usage/Download Reports	Yes	Yes	Add-on services available	Add-on services available	Yes
Stakeholder Reports	Yes	-	-	Add-on services available	-
Author Reports	Yes	-	-	-	Add-on services available
Google Analytics Integration	Yes	Add-on services available	Yes	-	Yes

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(Bankier & Gleason, 2014)

Multimedia					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Streaming Multimedia	Yes	Add-on services available	-	Add-on services available	solution pack available
Images	Yes	Yes	Yes	Yes	Yes
Slideshows	Yes	Add-on services available	Yes	Add-on services available	Yes
Audio	Yes	Yes	Yes	Yes	solution pack available
Video	Yes	Yes	Yes	Yes	solution pack available

ASP
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1954

(Bankier & Gleason, 2014)

Social Features and Notifications					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Follow	Yes	-	-	-	-
Share	Yes	Add-on services available	Add-on services available	Add-on services available	Add-on services available
RSS	Yes	Yes	Yes	Yes	Yes
Bookmark	Yes	-	Yes	Add-on services available	Yes
Publication and Author Mailing Lists	Yes	-	-	-	-
Reader Comments	Add-on services available	-	-	-	Yes
Saved Searches	Yes	-	Yes	-	-

(Bankier & Gleason, 2014)

Interoperability					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Harvesting (OAI-PMH)	Yes	Yes	Yes	Yes	Yes
Network of Platform Repositories	Yes: Digital Commons Network	-	-	-	-
Integration with Discovery Platforms	Yes	Yes	Yes	Yes	Yes
Integration with Research Profile Pages	Yes	-	-	-	Add-on services available

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(Bankier & Gleason, 2014)

Accessibility					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
VPAT Statement	Yes	-	-	Yes	-
Section 508 Compliant	Yes	-	-	-	-
WCAG (Web Content Accessibility Guidelines)	Yes	-	-	-	-

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(Bankier & Gleason, 2014)

Preservation					
	Digital Commons	DSpace	EPrints	Fedora	Islandora
Content Back Up	Yes: XML-based, quarterly content delivery	Yes: Archival Information Packages back up	Yes: XML export	Yes	Yes: XML export
LOCKSS-compliant	Yes	Add-on services available	-	Add-on services available	-
Format Migration Tools and Services	Yes	Managed by institution	Integrated format migration risks tools offer format advice for administrators	Managed by institution	Managed by institution

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(Bankier & Gleason, 2014)

Computing and Archiving Research Environment (CoARE) Project

– Department of Science and Technology-Science and Technology Institute (DOST-ASTI) (Philippines)

Storage

A durable repository is setup to store researchers' environmental and geospatial data. The repository can be used to store data, short-term or long term.

The CoARE Project has multiple storage options to accommodate various storage requirements of facility users:

- **iRODS**
- **Magnetic Tape Data Storage**
- **HPC Storage**
- **Science Cloud Storage**

https://coare.asti.dost.gov.ph/projects/coare/wiki/Storage

CoARE Project - DOST-ASTI (Philippines)

iRODS

- iRODS is a data management platform designed to meet the requirements of organizations in handling massive amounts of data by consolidating heterogenous storage resources under a single unified namespace and providing seamless and interactive access to its content.
- Facility for long-term data storage & retention and distribution.
- Recommended use is for collaboration and data sharing.
- Platform can also be used for archiving job outputs produced from the HPC system

https://coare.asti.dost.gov.ph/projects/coare/wiki/Storage

CoARE Project - DOST-ASTI (Philippines)

Magnetic Tape Data Storage

- Recommended storage for archiving data on a long-term basis (1-20 years)
- Data will be stored in a magnetic tape
- Capacity: 2.5 TB native, 6.25 compressed
- Once data are stored in the tapes, intended users have the option to keep the tapes or store it in the DOST-ASTI premises
- Expenses on purchasing magnetic tapes will be shouldered by intended users

https://coare.asti.dost.gov.ph/projects/coare/wiki/Storage

CoARE Project - DOST-ASTI (Philippines)

HPC Storage

- HPC storage is by default allocated to an HPC/ HPC-GPU user's account.
- A cluster of aggregated computing power that has the capacity to handle and analyze massive amounts of data at high speed.
- Compared to a regular desktop, it can accelerate speed of calculations and can deliver much higher performance.
- Currently, the CoARE HPC is already composed of 3120 cores with 10Gbps network speed and will expand until end of 2017.

https://coare.asti.dost.gov.ph/projects/coare/wiki/Storage
https://asti.dost.gov.ph/coare/coare-services

CoARE Project - DOST-ASTI (Philippines)

Science Cloud Storage

- provides cloud-based services to researchers and students by providing virtual machines (VM)
- Intended storage for user's files

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Genomic variation in 3,010 diver
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Genomic variation in 3,010 diverse accessions of Asian cultivated rice

Wensheng Wang, Ramil Mauleon, [...] Hei Leung

Nature **557**, 43–49 (2018) | Download Citation

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Abstract

Here we analyse genetic variation, population structure and diversity among 3,010 diverse Asian cultivated rice (*Oryza sativa* L.) genomes from the 3,000 Rice Genomes Project. Our results are consistent with the five major groups previously recognized, but also suggest several unreported subpopulations that correlate with geographic location. We identified 29 million single nucleotide polymorphisms, 2.4 million small indels and over 90,000 structural variations that contribute to within- and between-population variation. Using pan-genome analyses, we identified more than 10,000 novel full-length protein-coding genes and a high number of presence–absence variations. The complex patterns of introgression observed in domestication genes are consistent with multiple independent rice domestication events. The public availability of data from the 3,000 Rice Genomes Project provides a resource for rice genomics research and breeding.

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Zhiqiang Hu, Wensheng Wang [...] Zhikang Li

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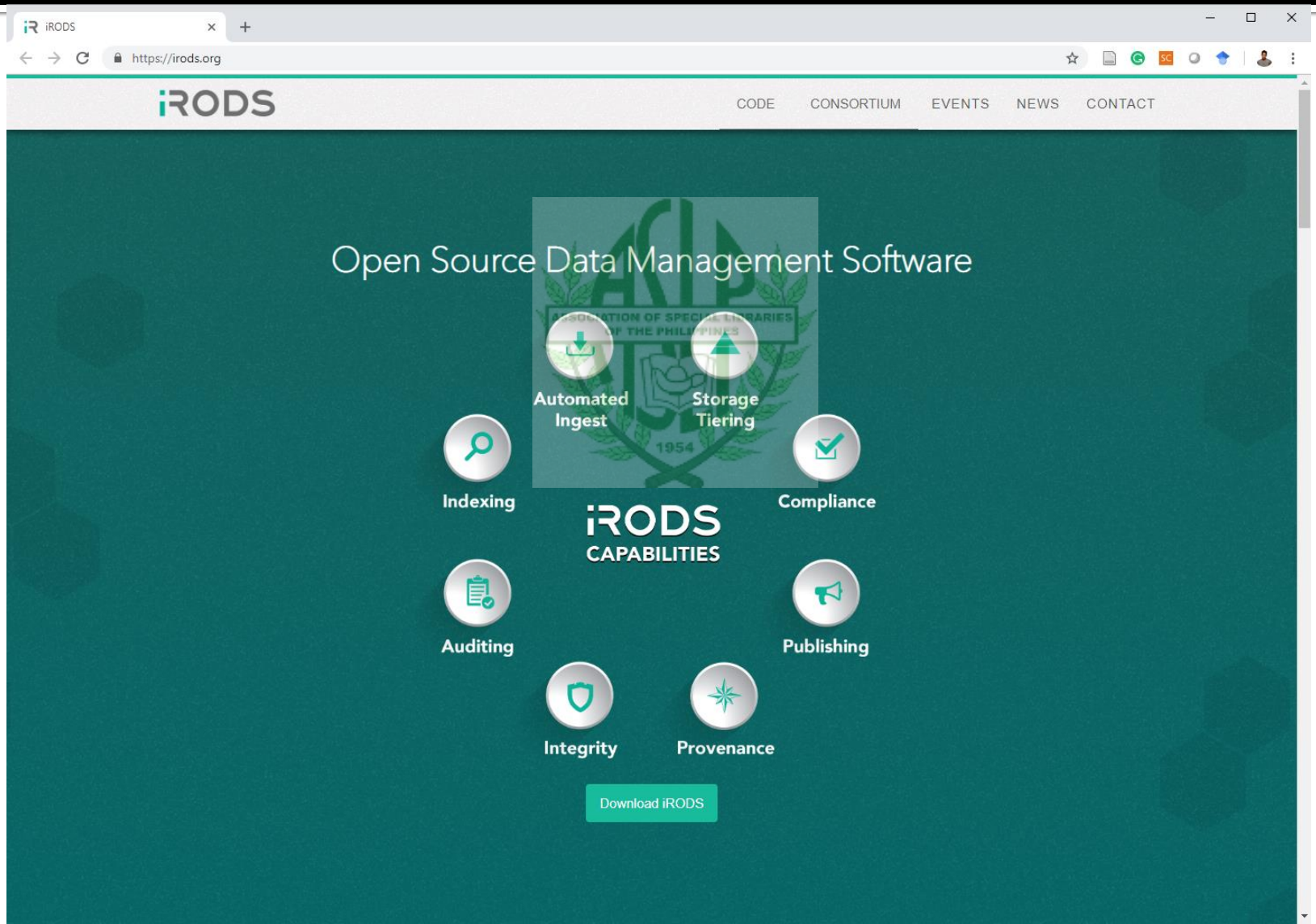
Abstract
Main
Genome mapping, size and SNP variation
Population structure and diversity
Structural variations
Pan-genome and population differentiation
Evolution and domestication of rice
Utility of the 3K-RG panel
Discussion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3. **Philippine DOST-ASTI iRODs facilities**: IRRI is collaborating with the Philippines' Department of Science and Technology Advanced Science and Technology Institute to utilize their data storage service infrastructure. DOST-ASTI utilizes iRODS, an open-source, data management platform designed to handle, manage and store massive amounts of data across heterogeneous storage systems. Users who wish to get the 3K RG data could use two file transfer methods, namely iRODS *icommands* , which is more for power users and developers, and offer greater transfer speeds, and by WebDav , an extension to the popular HTTP protocol that web browsers use.

Before downloading, please read the permissive license of the dataset at ASTI here.

To directly use the files from the ASTI resource in your applications using HTTPS, use the URL of the file you wish to access. As an example, to access the VCF file for accession **B001** as aligned to Nipponbare reference genome, type this URL in your web browser to download the file:

https://anonymous:anonymous@irods-webdav.asti.dost.gov.ph/pub/3kRG/nipponbare/vcf/01_Nipponbare_B001.snp.vcf.gz

Alternatively , you can use the *wget* command to download, example...

wget --no-check-certificate https://anonymous:anonymous@irods-webdav.asti.dost.gov.ph/pub/3kRG/nipponbare/vcf/01_Nipponbare_B001.snp.vcf.gz

The manifest list of all BAM and VCF files and their locations, for all reference genomes are in the following links:

BAM	VCF
Nipponbare	Nipponbare
93-11	93-11
DJ 123	DJ 123
IR 64	IR 64
Kasalath	Kasalath

Using a web browser, if a dialog box asking credentials appear, type user name *anonymous,* password *anonymous*.

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3,000 rice genomes project | Giga
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The 3,000 rice genomes project

The 3,000 rice genomes project

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Abstract

Background

Rice, *Oryza sativa* L., is the staple food for half the world's population. By 2030, the production of rice must increase by at least 25% in order to keep up with global population growth and demand. Accelerated genetic gains in rice improvement are needed to mitigate the effects of climate change and loss of arable land, as well as to ensure a stable global food supply.

Findings

We resequenced a core collection of 3,000 rice accessions from 89 countries. All 3,000 genomes had an average sequencing depth of 14×, with average genome coverages and mapping rates of 94.0% and 92.5%, respectively. From our sequencing efforts, approximately 18.9 million single nucleotide polymorphisms (SNPs) in rice were discovered when aligned to the reference genome of the temperate *japonica* variety, Nipponbare. Phylogenetic analyses based on SNP data confirmed differentiation of the *O. sativa* gene pool into 5 varietal groups – *indica*, aus/boro, basmati/sadri, tropical *japonica* and temperate *japonica*.

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The 3,000 rice genomes project: new opportunities and challenges for future rice research

Jia-Yang Li, Jun Wang, Robert S Zeigler

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Abstract

Rice is the world's most important staple grown by millions of small-holder farmers. Sustaining rice production relies on the intelligent use of rice diversity. The 3,000 Rice Genomes Project is a giga-dataset of publically available genome sequences (averaging 14× depth of coverage) derived from 3,000 accessions of rice with global representation of genetic and functional diversity. The seed of these accessions is available from the International Rice Genebank Collection. Together, they are an unprecedented resource for advancing rice science and breeding technology. Our immediate challenge now is to comprehensively and systematically mine this dataset to link genotypic variation to functional variation with the ultimate goal of creating new and sustainable rice varieties that can support a future world population that will approach 9.6 billion by 2050.

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The Rice 3000 Genomes Project Data.

Dataset type: Genomic
Data released on May 27, 2014

The 3000 Rice Genomes Project (2014): The Rice 3000 Genomes Project Data. GigaScience Database.
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DOI 10.5524/200001

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Rice, *Oryza sativa L.*, is the staple food for half the world's population. By 2030, rice production must increase by at least 25% to keep pace with population growth. Accelerated genetic gains in rice improvement are needed to mitigate the effects of climate change and loss of arable land and to ensure global food supply.
Here, we include data from an international effort resequencing a core collection of 3,000 rice accessions from 89 countries as a global public good. The 3,000 sequenced rice genomes had an average sequencing depth of 14X, average genome coverage and mapping rates of 94.0% and 92.5%, respectively.
This data provides a foundation for large-scale discovery of novel alleles for important rice phenotypes using various bioinformatics and/or genetic approaches. It also serves to understand at a higher level of detail the genomic diversity within *O. sativa*. With the release of the sequencing data, the project calls for the global rice community to take advantage of this data as a foundation for establishing a global, public rice genetic/genomic database and information platform for advancing rice breeding technology for future rice improvement.
Keywords: Oryza sativa, genetic resources, genome diversity, next generation sequencing

The 3000 rice genomes sequence data are now completely uploaded into the INSDC databases (the Sequence Read Archives (SRA) at EBI, DDBJ and NCBI), and available for easy download from the links noted below, rather than from GigaDB. NB - the mapping of each file as previously stored in GigaDB to the relevant location on the EBI FTP server can be found in the file seq_file_mapping_to_SRA.txt.

GigaDB Dataset - DOI 10.5524/2(

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rice_line_metadata_20141029.xlsx		Tabular data	EXCEL	421.32 KB	2014-10-29	
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IN DEPTH

What is GDPR, the EU's data protection law?

Have you received dozens of emails about updates to your favorite online services' privacy policy? The reason is the EU's data protection law, and it has global implications. DW examines how it might affect you.

Date 24.05.2018

Author Lewis Sanders IV

Related Subjects European Union (EU), Data journalism

Keywords GDPR, data protection, EU

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The General Data Protection Regulation ("GDPR")

- April 14, 2016, the European Parliament approved the General Data Protection Regulation ("GDPR"), which will replace the EU's current data privacy standard
- begin to apply on May 25, 2018

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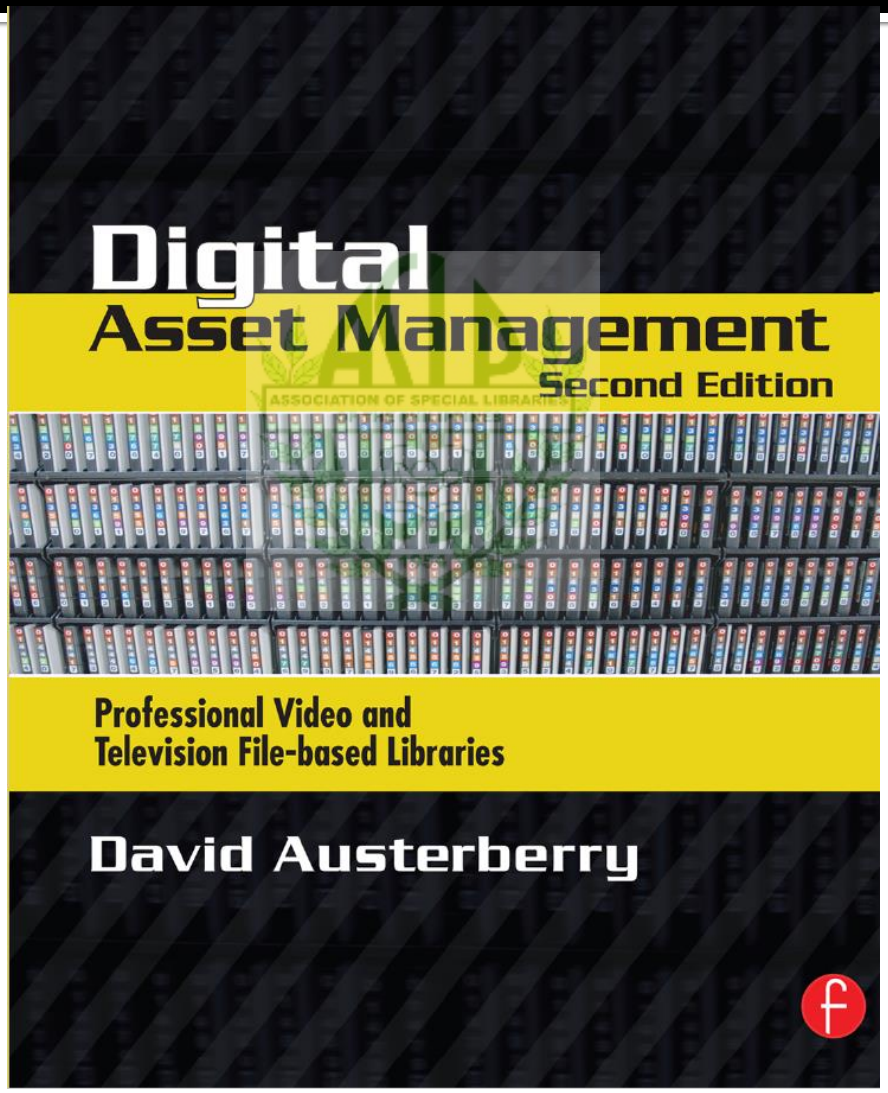
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