What’s the Big IDeA?

An Institutional Digital Repository at Your Library

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IUPUI University Library
Questions We Will Answer

- What is an institutional digital repository (IR) and why are they important?
- How did IUPUI get its IR off the ground?
- What resources (people, skills, technology) are needed to implement and maintain an IR?
- What is the workflow for adding material to the repository?
- How do we market the repository to our institution members?
Institutional Digital Repositories 101

- Institutionally defined
- Scholarly
- Perpetual and cumulative
- Open and interoperable

http://www.arl.org/sparc/IR/ir.html
Why IDeA and why now?: The Perfect Storm

Evolving technology and the changing needs of scholars meet an increasingly problematic publishing landscape and shrinking library budgets.
Changing Scholarly Communication: New Challenges

- Copyright restrictions in online environment
- New formats not supported by traditional print publishing
- Speed of research cycle
- Public demand for access to tax-payer funded research
- Journal bundling and pricing increases paired with cuts in library budgets
Skyrocketing Journal Prices


Statistics available at:
Changing Scholarly Communication: New Technologies

- Ability to preserve and display new types of scholarship media
- Indexing and Googling
- Instantaneous publishing
- Preference toward online research by scholars
- Open source software
Avenues for Open Access Publishing

Well accepted:
- Open access journals
- Repositories
  - Institutionally based
  - Discipline based

“There are two roads to OA: the "golden" road (publish your article in an OA journal) and the "green" road (publish your article in a non-OA journal but also self-archive it in an OA archive). Only 5% of journals are gold, but over 90% are already green (i.e., they have given their authors the green light to self-archive); yet only about 10-20% of articles have been self-archived.”

http://www.ecs.soton.ac.uk/%7Eharnad/Temp/impact.html
The Benefits of IRs

- Provide functional support to collect, preserve, index, and distribute digital scholarly content.
- Effective at “branding” universities’ scholarly output.
- Consolidate university’s scholarly materials in one place.
- Encourage campus units and faculty to begin thinking about scholarly communication differently.
- Make scholarly material available to people worldwide.
- Long-term goal: decrease cost of accessing scholarly materials.
- Preservation of material in perpetuity.
How did we get from

“This is a good idea”

to

https://idea.iupui.edu
IUPUI’s IR Beginnings

- IUPUI University Library’s culture of experimentation
- Task Force convened
  - Overview of major components
  - Identification and examination of open source products
  - Trends in faculty attitudes
Indiana University
Resolution on Journals, Databases, and Threats to Scholarly Communication

“...calls on all faculty, staff, students, and university administrators of Indiana University to work toward a more open publishing system by increasing their support of existing refereed journals and publishers whose practices are consistent with open access to scholarly communication and to support those who make such choices when considering tenure and promotion. ...”

Choosing a platform

- Open Source
  - DSpace
  - Eprints

- Develop your Own
  - NELLCO Legal Scholarship Repository
  - DiVA [http://www.diva-portal.se/about.xsql](http://www.diva-portal.se/about.xsql)

- Proprietary
  - ProQuest, Digital Commons@
Why DSpace?

- Collaboration between MIT and Hewlett Packard in 2000 results in DSpace an open source, free ware digital repository product
- Many institutions using the product
  - Cambridge University
  - Columbia University
  - Cornell University
  - Massachusetts Institute of Technology
  - Ohio State University
  - University of Rochester
  - University of Toronto
  - University of Washington
Why DSpace?

- Provides framework to collect, preserve, index, and distribute digital scholarly content
- Provides long-term preservation for a variety of digital formats including text, audio, video, images, datasets, and more
- Allows users to identify new file formats
- Requires authentication to submit items
- Uses Qualified Dublin Core metadata and allows for use of controlled vocabularies
- Allows content to reach a worldwide audience through exposure to search engines such as Google
- Provides persistent network identifiers for repository content
- Allows university groups or individuals to have control over how their work appears in the IR
- Is full-text searchable (text-based documents)
Gathering People

- Interests
  - Promoters of alternative scholarly communication
  - Believers in the benefits of technology
  - Supporters of an institutional identity and perpetuity
Identifying Skills

- Subject expertise
- Database design
- Interface design
- Metadata
- Information organization
- University wide communication skills
Compare the Lists

1. Compare the list of interested people with the list of skills.
2. Who among your interested people owns the necessary skills?
3. What skills are left over?
4. Who else in your institution owns these skills?
5. What skills are left over?
6. How will you acquire the remaining skills?
Identify a Project Leader

- Creates a structured chain of command
- Officially recognizes those involved
- Legitimizes time and efforts devoted
- Organizes the workflow
Identify Hardware/Software Needs

- Server space/size
- Processing capability of PCs/Macs
- Various software
- Data back-up
- Speed of network
  - For you as administrators
  - For your users
Install the Software
Test the IR

- Test instance
- Ingestion process
- Workflow process
- Various file formats
- Accessibility
  - Interface design-user friendly
  - Searching
- Metadata
Organizational Method

- Does your software choice decide for you?
- Hierarchical-how many levels?
- Access points
- Level of metadata
- Subject based
- Entity/group based
- Centralized operation-level
Hierarchy Example

- Community: School of Liberal Arts
  - SubCommunity: Department of History
    - Collection: Dr. Robert L. Smith Lecture Series
      - Item: the metadata or catalog record description of the lecture
        - Files: a PDF of the lecture, a tiff file of an image he showed, a wav file of the audio of the lecture, and a PowerPoint presentation he used during the lecture
          - Bit streams that are part of each file
Again does your software decide for you?

Descriptive, Administrative, Preservation

Open access requires sticking to standards
  - Dublin Core

Controlled Vocabulary
  - Promote standards to users
  - Content/Topic based
**Edit Item**

PLEASE NOTE: These changes are not validated in any way. You are responsible for entering the data in the correct format, and ensuring what the format is, please do NOT make changes.

More Help...

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**Provenance:**

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**Submission Workflow**

**Item template:** [Edit] [Delete]

[Update] [Cancel]
Administrative Workflow

- Initial meeting with potential community
  - Discuss responsibilities and options
  - Different levels of library involvement
- Meeting with community/collection level managers
  - Defining roles and creating item level workflow
  - Discuss metadata standards and creation
  - Training
- Initial and Continuing Support for Community
University Library Community Pilot

- Who are the leaders?
- How is the Community structured?
- What type of material is “scholarly”?
- What does the workflow look like?
  - Peer reviewed?
  - Metadata reviewed?
- Community specific promotion?
Promotion of IDeA to Faculty

- Walk the walk
- Know your campus assets
- Find early adopters
  - ETD’s
  - School of New Media
- Be prepared to compromise
“[Margret] Branschofsky has found that as many as five to seven tailored and personalized impressions about DSpace are required to catch the interest of a new potential IR participants. . . Creating tailored and personalized impressions requires a thorough knowledge of how the IR could meet actual needs of people, which is no small undertaking.

. . .

Often the most persuasive arguments for submitting content to an IR come not from administrators or librarians but from close colleagues at other institutions.”
Promotional Ideas

- Identifying already-published faculty members
- Getting retiring faculty to submit items
- Well-known campus authors
- Research-of-the-Day
- Seminars and workshops on campus
- Presenting to school departments
- Developing scripts for library staff to engage with campus groups

- Knowing “green” journals: SHERPA
- DSpace Federation Guide
Innovative Resources: Library Science Students

- L545 Systems Analysis and Design
  - Ingestion
  - Promotion to Faculty
  - Metadata, specifically SCORM and Reusable Learning Objects
Submit: Describe Your Item

Please fill in the requested information about your submission below. In most browsers, you can use the tab key to move the cursor to the next input box or button, to save you having to use the mouse each time. (More Help...)

Enter the names of the authors of this item below.

Last name  First name(s) + “ Jr”
e.g. Smith    e.g. Donald Jr

Authors

Enter the main title of the item.

Title

Please give the date of previous publication or public distribution below. You can leave out the day and/or month if they aren't applicable.

Date of Issue  Month: (No month)  Day:  Year:

Publisher

Enter the standard citation for the previously issued instance of this item.

Citation
Submit: Upload a File

Please enter the name of the file on your local hard drive corresponding to your item. If you click "Browse...", a new window will appear in which you can locate and select the file on your local hard drive. (More Help...)

Netscape users please note: By default, the window brought up by clicking "Browse..." will only display files of type HTML. If the file you are uploading isn't an HTML file, you will need to select the option to display files of other types. Instructions for Netscape users are available.

Please also note that the DSpace system is able to preserve the content of certain types of files better than other types. Information about file types and levels of support for each are available.

Document File: 

Click the 'Browse...' button to select a file.
Submit: Verify Submission

Not quite there yet, but nearly!

Please spend a few minutes to examine what you've just submitted below. If anything is wrong, please go back and correct it by using the buttons next to the error, or by clicking on the progress bar at the top of the page. (More Help...)

If everything is OK, please click the "Next" button at the bottom of the page.

You can safely check the files you've uploaded - a new window will be opened to display them.

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| Abstract:                    | None |
| Sponsors:                    | None |
| Other Description:           | None |

Uploaded File: Rubric Set 2 Self Check.doc - Microsoft Word (Known)
Submit: Grant DSpace Distribution License

There is one last step: In order for DSpace to reproduce, translate and distribute your submission worldwide, your agreement to the following terms is necessary. Please take a moment to read the terms of this license, and click on one of the buttons at the bottom of the page. By clicking on the "Grant License" button, you indicate that you grant the following terms of the license. (More Help...)

Not granting the license will not delete your submission. Your item will remain in your "My DSpace" page. You can then either remove the submission from the system, or agree to the license later once any queries you might have are resolved.

We can have separate licenses for each collection? Excellent

I Grant the License
I Do Not Grant the License
Submit: Submission Complete!

Your submission will now go through the workflow process designated for the collection to which you are submitting. You will receive e-mail notification as soon as your submission has become a part of the collection, or if for some reason there is a problem with your submission. You can also check on the status of your submission by going to the My DSpace page.

Go to My DSpace
Summary

- Plan: Does an IR fit your Institution?
- Choose: Existing vs. Original
- Designate and Assign
- Lead by Example
- Consider your Institution
- Promote
- Innovate
Questions?