

NORTHWEST ILL & RESOURCE SHARING CONFERENCE

9/14

The Easy Button

Integrating OA Buttons into ILL Workflows

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Evolving perspectives: Open access & ILL

2011



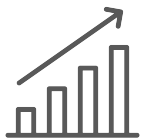
Early articles (Corhouts 2011, Koyama et al. 2011) showed **concerns that rise of OA would negatively impact ILL.**

2014



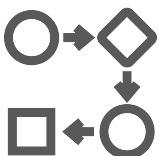
Later articles were more positive (Hu and Jiang 2014, Schöpfel 2014), suggesting that **OA could provide valuable source of scholarly content for ILL.**

2016



Baich conducted two studies of ILL requests in 2012 and 2015, and a third with Mak in 2016, all showing a **general upward trend in requests for OA material through ILL.**

2017



Jisc has been studying the **feasibility of integrating the OA Button into interlibrary loan** workflows, using three different use cases for potential services (work is ongoing).

(Anecdotal) Assumptions



- There are costs to traditional ILL borrowing activities for articles
- The integration of open access (OA) versions of articles will alleviate direct costs and *may* alleviate indirect costs
- The proportion of ILL article borrowing requests that may be filled by using OA sources is significant enough to provide a substantial benefit

Testing an Assumption: Projecting Impact



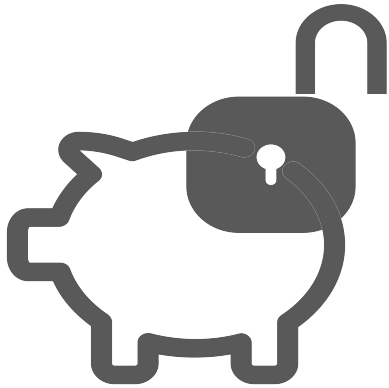
Assumption:

*The proportion of ILL article borrowing requests that may be filled **by using OA Button or Unpaywall** is significant enough to provide a substantial benefit*

Test:

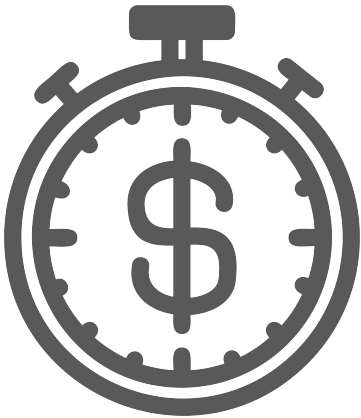
- Compile multi-institutional borrowing data (filled requests)
- Determine % of requests that could be filled via OA Button/Unpaywall
- Estimate the **cost savings*** that would have been achieved

A Note on Costs



Direct costs

- Simple to calculate average direct cost of filled requests



Indirect costs: two considerations

- Integration of OA Button/Unpaywall prior to initiating ILL workflow
- Integration of OA Button/Unpaywall into ILL staff workflow

Finding What's Open: The Tools

Sources

Open Access Button

Unpaywall, Share, Core, OpenAIRE, Dissemin, Europe PMC, BASE

Unpaywall

Crossref, DOAJ, Gold OA & Hybrid Journals, Institutional Repositories, Disciplinary Repositories

Query By

Open Access Button

DOI, URL, PubMed ID, PubMed Central ID, Title

Unpaywall

DOI

Finding What's Open: The Tools

Services

Open Access Button

Chrome and Firefox Browser Extensions, CSV Upload, Open API

Unpaywall

Chrome & Firefox Extensions, OpenAPI, Database Download, Data Feed (fee based)

Integrations

Open Access Button

ILLiad, Clio, Alma, and Embeddable Code for LibGuides & ILL Webpages

Unpaywall

SFX, 360, and Primo Link Resolvers, Scopus, Dimensions, Web of Science

Our Methodology

1. Raw Data Collected

Each institution pulled FY16 fulfilled borrowing & lending transactions

Institution	Borrowing	Lending
PSU	7,655	2,216
Pacific	2,999	9,557
U of Portland	4,152	1,345
OHSU	2,282	*
Total	17,078	13,118



2. Sample Size Computed

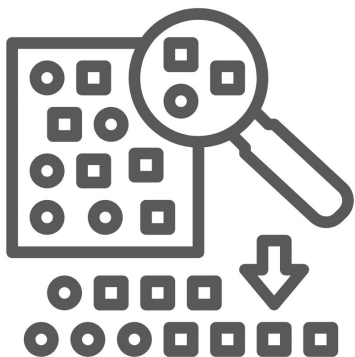
Calculated to produce two-sided 95% confidence level with a precision of 0.05

Institution	Borrowing	Lending
PSU	278	255
Pacific	263	280
U of Portland	270	238
OHSU	256	*
Total	1067	773

Our Methodology

3. Samples Generated & DOIs Collected

Google Sheets RANDBETWEEN function used to assign random identifiers & create samples



DOIs manually collected for document in the samples

4. Queried OA Button & Unpaywall APIs



OA Button

If DOI not available, looked for title match



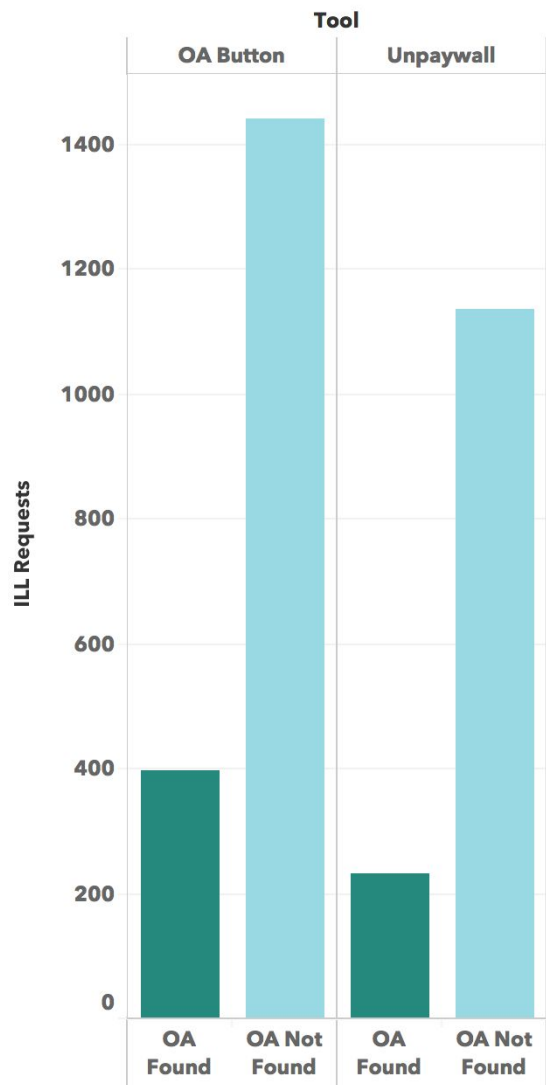
Unpaywall

Queries limited to DOIs

Find our code on Github:

<http://bit.ly/openill>

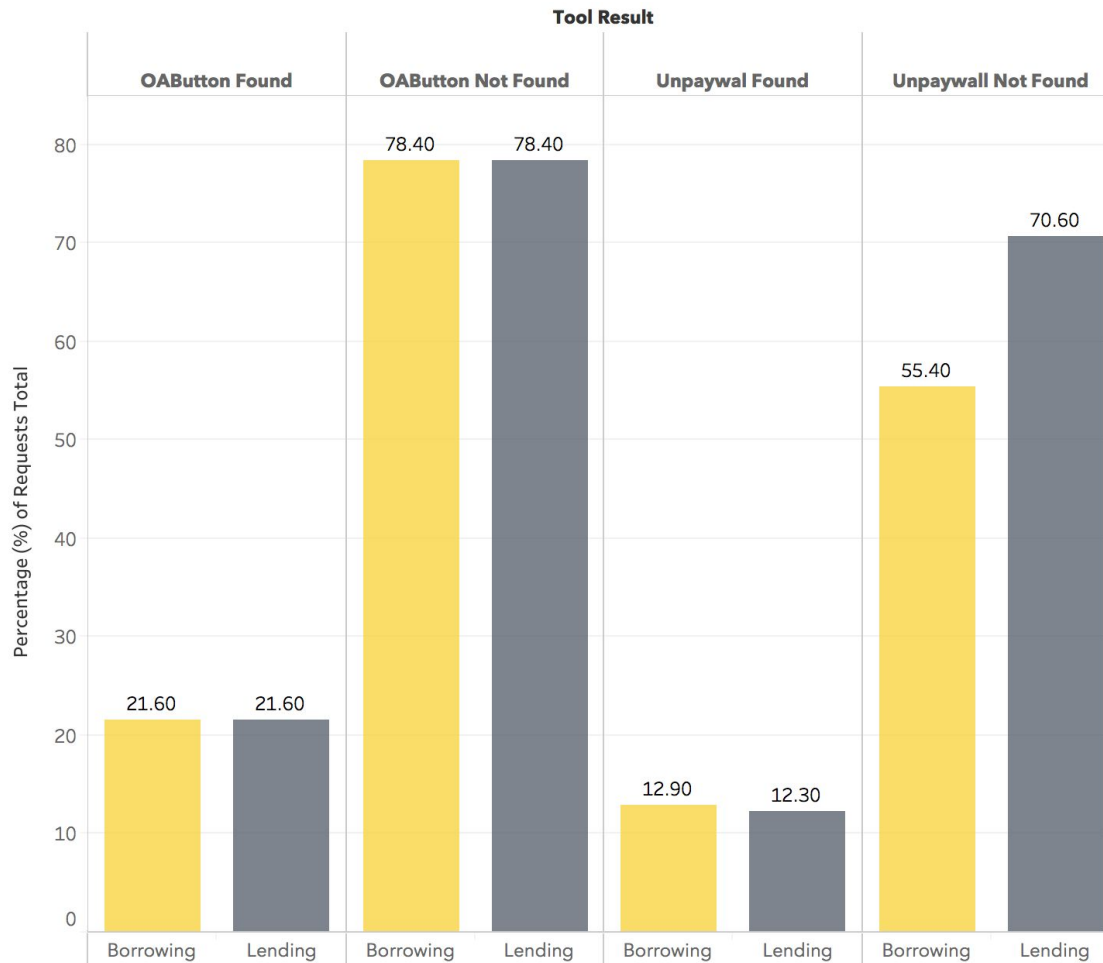
Results



An Open Access version was found for **23.2%** of the requests in our samples

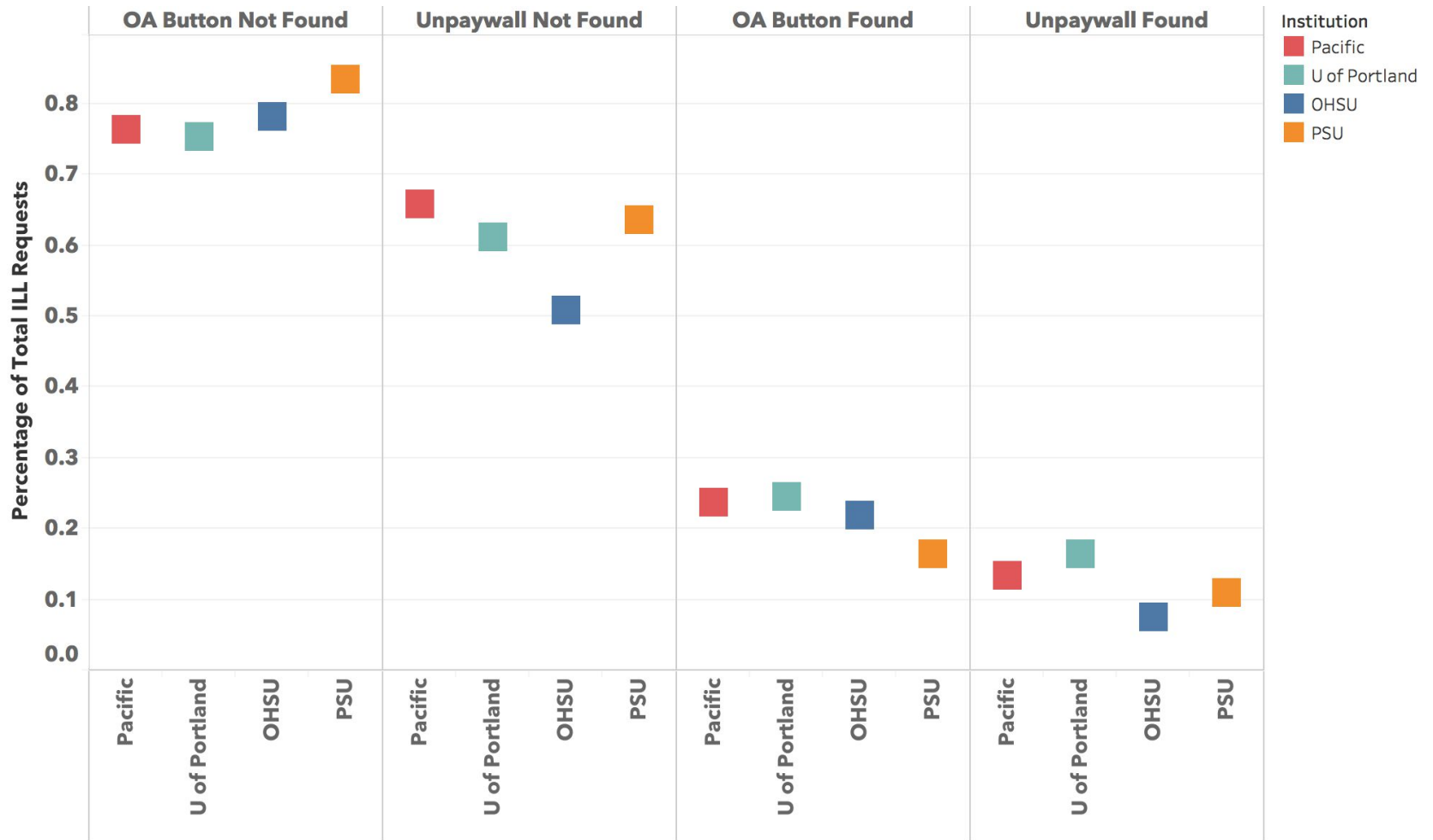
Tool	OA Found	OA Not Found
OA Button	397	1,442
Unpaywall	233	1,137

Results

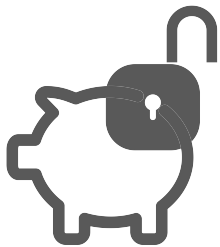
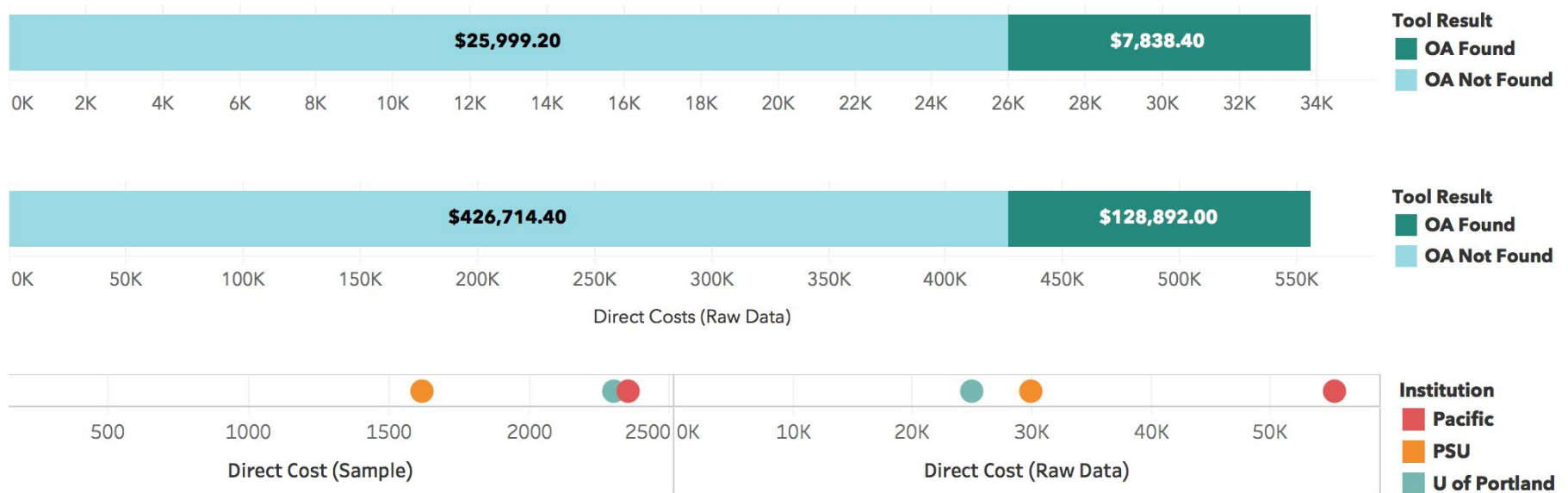


Overall, no significant difference between borrowing & lending transactions

Results



Impact



The projected mean direct cost value of OA materials is

\$37,782

Estimated average transaction cost = \$18.40

Projection is limited to Pacific, PSU, and U of Portland data

Testing Our Assumptions: What We're Closer to Answering



Assumption:

Proportion of ILL requests that may be filled **by using OA Button or Unpaywall** is **significant enough** to provide a substantial benefit

23.2% OA Version Found

16.5% - 24.6% Institutional Range

Testing Our Assumptions: Further Work & Questions



What's Next:

What integration will have the most impact?

What variables matter?

What versions are at play?

What are our shared definitions of cost (and savings)?

Our Contributing Colleagues: Acknowledgments

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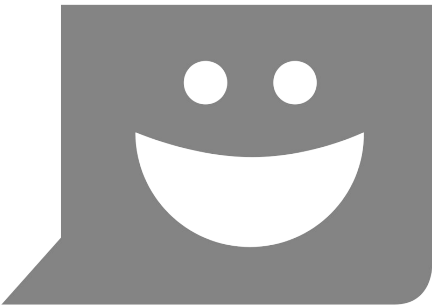
Sharon Rivers, PSU

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Cindy Blanding, University of Portland

Chris Wiley, University of Portland

Jane Scott, University of Portland



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THANK YOU!

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