

Altmetrics in Institutional Repositories

Stacy Konkiel
Indiana University

ASIS&T 2013, Montreal
November 5, 2013



INDIANA UNIVERSITY



Why IRs?

- Home to a variety of scholarly content
 - data, publications, technical reports, etc
 - 30.5 million+ files across 3,500+ OA repositories worldwide
(<http://roar.eprints.org>, 2013)
- Expected influx of new scholarship due to government OA policies





Value of IR altmetrics for...

Authors

- Impact of OA content
- Tenure & promotion (limited)

Repositories

- Marketing to potential depositors
- Prove value of IR to repository funders
- Plan collection development, resource allocation, and marketing & outreach

Administrators

- Showcasing university scholarship to internal/external stakeholders
- Faculty review committees for popular and scholarly reach of research

From Konkiel, S., & Scherer, D. (2013). New opportunities for repositories in the age of altmetrics. *Bulletin of the American Society for Information Science and Technology*, 39(4), 22–26.
doi:10.1002/bult.2013.1720390408



Altmetrics for Repositories

- Pageviews
- Downloads
- Citations



Altmetrics for Repositories

Current IRs

- Pageviews
- Downloads
- Citations (lim.)

Current Altmetrics

- Saves (Mendeley, CiteULike, Delicious)
- Shares (Twitter, Facebook, Reddit, news articles, blog posts, Google+, Mendeley)
- Reviews (blog posts, Facebook comments)

Subject Repositories

- SSRN (Abstracts vs. full-text, etc)
- ICPSR (Institutions, roles of user, etc)
- Global Biodiversity Information Facility (GBIF; Ingwersen & Chavan, 2011) (# of searched records, download frequencies, # of datasets, etc)



Challenges for IR metrics

- Redundancy ([Hull, Pettifer & Kell, 2008](#))
- Metadata inconsistencies ([Hull, Pettifer & Kell, 2008](#))
- Author disambiguation ([Warner, 2009](#))
- Disengaged faculty ([Jantz & Wilson, 2008](#); [Kim, 2008](#); [Xia & Sun, 2007](#); [Xia, 2007](#); [Xia, 2008](#))
- Little context or understanding how content is used ([Wacha & Wisner, 2011](#))



Technical Implementation ([Altmetric.com](https://altmetric.com))

- Map Handles to DOIs, PubMed IDs, & ArXiv IDs
- Embed badge/display on item record pages (javascript)
- Landing page branding
- Toggle on/off display (IU)



Example: Indiana University (DSpace) & Altmetric.com

The screenshot shows the IU ScholarWorks repository page for the article "Calling on a Million Minds for Community Annotation". The page includes a search bar, navigation links, and a sidebar with "Statistics" circled in red. The main content area displays the article title, authors, URI, date, publisher, citation, and abstract. A "Statistics" section is visible at the bottom of the main content area, showing "View Usage Statistics" and "Altmetric 83".

Statistics
[View Usage Statistics](#)
Altmetric 83

Altmetrics Display:
Select whether or not to display public altmetrics data for this item.

true
true
false


Select whether or not to display public altmetrics data for this item.

< Previous Save & Exit Next >



Example: Purdue University (Digital Commons) & Altmetric.com

Altmetric Altmetric tracks the buzz around scholarly articles and datasets online. This page gives you high level statistics for the article below and shows a subset of the activity collected. You can [find out more here](#).



15

Airline Quality Rating 2013

Twitter **News** Demographics Help

So far Altmetric has seen **1** story.

Forbes United - This Is NOT "Any Way to Run an Airline"

Forbes

The good professors at Wichita State University (a final four contender as U.S. basketball fans know) and Purdue released their ..

2013-04-12T03:04:18+01:00

Mentioned by

- 6 tweeters
- 1 news outlets

Readers on

- 0 Mendeley
- 0 CiteULike

Track this article

- Get email updates when this article is shared

Purdue University Press Journals

Browse

- Collections
- Disciplines
- Authors

Quality Rating 2013, reflects monthly Airline Quality Rating scores for calendar year 2012. AQR scores for 2013 are based on 15 elements in four major areas that focus on airline performance aspects important to air travel consumers over the calendar year of 2012.

The Airline Quality Rating 2013 is a summary of month-by-month quality ratings for U.S. airlines that are required to report performance by virtue of having at least 1% of domestic scheduled-service passenger revenue during 2012. Using the Airline Quality Rating system of weighted averages



Future Work (General)

- Develop plugins for major IR platforms
- Enhance technology (& metrics) to differentiate impact of IR-hosted scholarship from other versions
- Benchmark PID use in IRs (currently underway)
- DLF white paper on metrics in IRs and digital collections (currently underway)



INDIANA UNIVERSITY

Thank you!

Stacy: skonkiel@indiana.edu // @skonkiel

IU/Altmetric.com

Source code and documentation:

<https://wiki.dlib.indiana.edu/x/rI22Hg>