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# Measuring Impact (2017 Nebraska ACRL Scholarly Communication Roadshow, University of Nebraska-Lincoln)

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# Measuring Impact

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Jaron Porciello

University of Nebraska-Lincoln

July 12, 2017



# Impact on scholars



# Agenda

Define impact and importance to librarians/academics

Identify impact within scholarly communication environment

Generate ideas and potential next steps for services related to impact



Scholarly  
communication cycle  
involves “**evaluating**  
research and other  
scholarly writings for  
**quality**” (ARL, 2013)



Author:

How is this author's work received?

Journal:

How does this journal rank among others in its field?

Article:

How do people engage with an individual article?

Institutional:

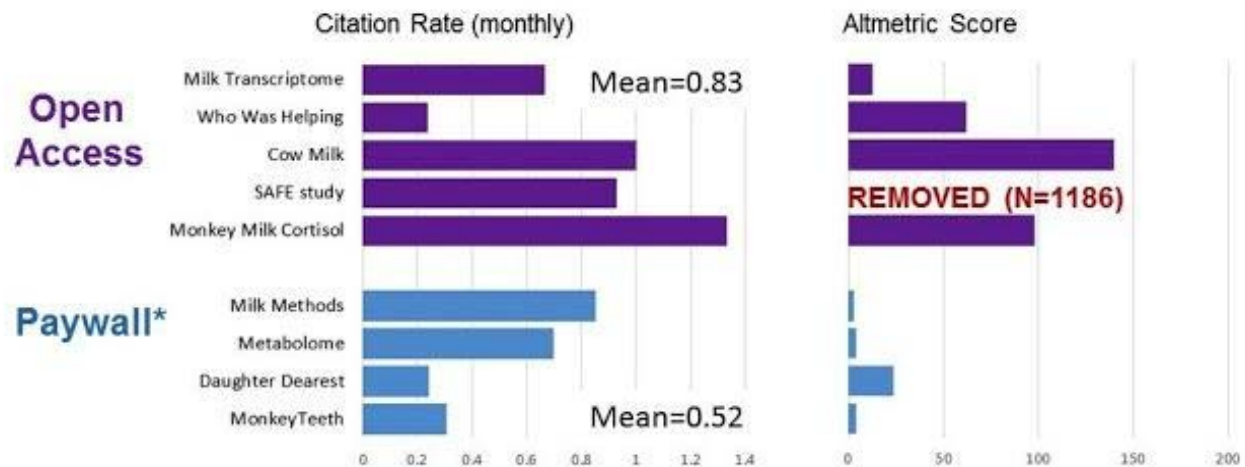
What is the value of research at-large and of individuals at an institution?





## Comparison of my peer-reviewed journal publications in 2013 & 2014

Individual author comparison: open access vs. paywall



\*excluding journals w/ IF >30 (N=1)

Katie Hinde



# Impact: paywalled vs. open access

Field	Paper (n)	Reference (n)	not OA (arc)	OA (arc)	gold (arc)	green (arc)
<b>TOTAL</b>	<b>3,350,910</b>	<b>34,865,430</b>	<b>0.81</b>	<b>1.23</b>	<b>1.06</b>	<b>1.28</b>
Agriculture, Fisheries & Forestry	138,025	804,386	0.85	1.18	0.73	1.35
Biology	151,424	1,882,514	0.74	1.17	1.33	1.18
Biomedical Research	291,325	5,581,332	0.80	1.14	1.16	1.09
Built Environment & Design	16,648	84,825	0.83	1.28	0.79	1.35
Chemistry	317,930	2,432,155	0.90	1.24	0.65	1.34
Clinical Medicine	823,924	9,323,440	0.81	1.28	1.25	1.28
Communication & Textual Studies	28,178	37,152	0.78	1.93	0.81	2.16
Earth & Environmental Sciences	117,429	1,332,707	0.82	1.16	0.82	1.20
Economics & Business	66,037	607,155	0.65	1.25	0.67	1.27
Enabling & Strategic Technologies	250,651	2,404,079	0.89	1.18	0.79	1.30
Engineering	193,856	1,029,715	0.85	1.25	0.86	1.36
General Arts, Humanities & Social Sciences	3,932	11,757	0.65	1.69	0.99	1.65
General Science & Technology	31,793	1,906,904	0.93	1.10	0.84	1.20
Historical Studies	25,468	50,016	0.80	1.58	0.68	1.91
Information & Communication Technologies	97,786	582,010	0.72	1.23	0.98	1.27
Mathematics & Statistics	107,426	558,567	0.78	1.14	1.12	1.22
Philosophy & Theology	17,117	28,107	0.70	1.74	0.76	1.98
Physics & Astronomy	424,091	3,954,894	0.75	1.27	0.92	1.34
Psychology & Cognitive Sciences	70,022	1,026,674	0.69	1.23	1.15	1.19
Public Health & Health Services	85,703	804,085	0.83	1.17	1.00	1.23
Social Sciences	86,513	421,516	0.69	1.49	0.89	1.63
Visual & Performing Arts	5,632	1,440	0.83	2.19	1.17	2.69



# Scholar Metrics



# Author Impact

## H-index

Measures the impact of a particular author.

The higher the number of cited work you have, the higher your *h*-index, regardless of which journal it was published in.  
Found on Google Scholar, Web of Science, Scopus

## G-index

Measures the impact of a particular author - highly cited articles weighted more. This index was proposed in 2006, and needs at least two citations.

## I10-index

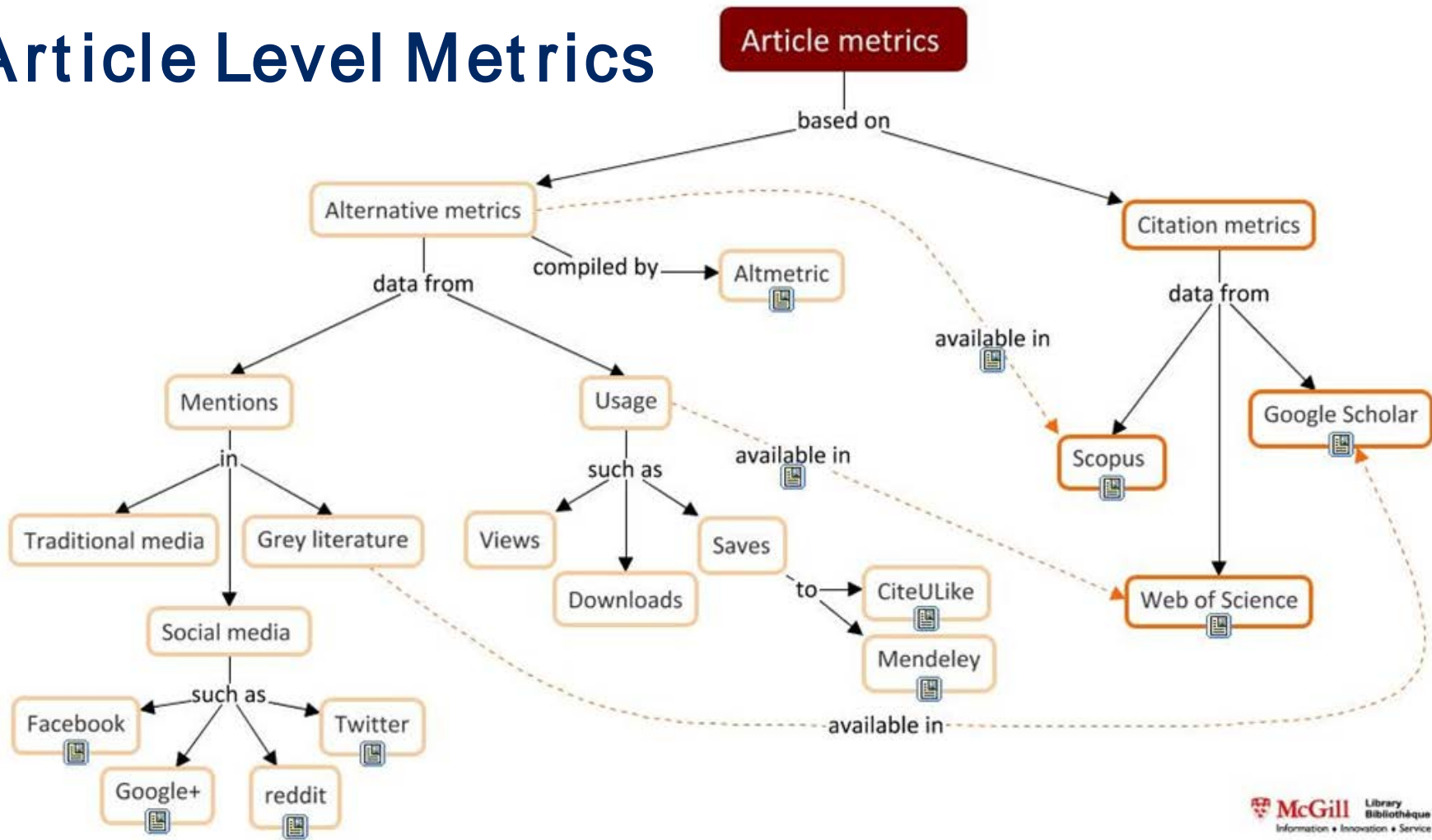
The number of publications with at least 10 citations . Google Scholar generates I10-index



# Journal Impact

Impact Factor	Frequency with which the average article in a journal has been cited in a particular year. It ranks a journal by calculating the times its articles are cited.
Journal Citation Reports	Journal comparisons & ranks in science, technology, and social sciences.
Eigenfactor	Rates the “total” importance of a journal over time.
SCImago & Country Reports (Scopus)	Ranks journals, disciplines, and output of materials by country.
Google Scholar metrics	Top 100-journals ranked according to five-year h-factors (index and mean), and shows highest cited articles (h5) in each publication

# Article Level Metrics





highly recommended highly cited highly saved

cited

highly cited highly saved viewed saved

viewed

highly cited highly saved viewed discussed

viewed

highly cited highly saved viewed saved

viewed

highly cited highly discussed highly saved



Close x

- Tweeted by 597
  - Blogged by 22
  - On 20 Facebook pages
  - Mentioned in 16 Google+ posts
  - Picked up by 8 news outlets
  - 228 readers on Mendeley
  - 4 readers on CiteULike
- [Click for more details](#)



- PubMedCentral - HTML Views: 478
- PubMedCentral - PDF Views: 267
- Pitt-EPrint-DScholarship - Downloads: 31
- PLoS - PDF Views: 226
- PLoS - HTML Views: 1291
- Bitly - Clicks: 7
- Mendeley - Readers: 15
- Scopus - Cited by: 15
- PubMed - Cited by: 11
- CrossRef - Cited by: 7

Powered By Plum Analytics



# Multiple data streams





## Think-Pair-Share

Does anyone at your library have or maintain expertise on author impact and metrics as part of their role?

What kind of services would be useful to your audience?



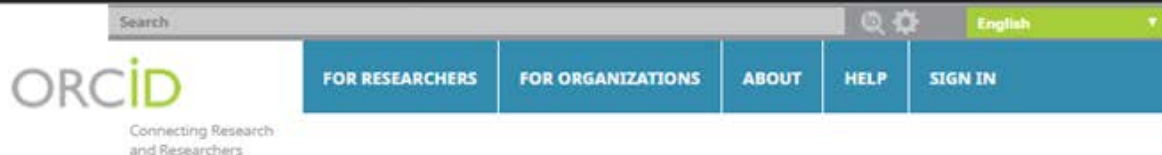
# Scholar Visibility



# Personal Brand



# ORCID



## DISTINGUISH YOURSELF IN THREE EASY STEPS

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**Mon 05/22/2017**  
Collect - Connect - Sync: The PTCRIS synchronization framework



	Open access repositories	Academia.edu	ResearchGate
Supports export or harvesting	Yes	No	No
Long-term preservation	Yes	No	No
Business model	Nonprofit (usually)	Commercial. Sells job posting services, hopes to sell data	Commercial. Sells ads, job posting services
Sends you lots of emails (by default)	No	Yes	Yes
Wants your address book	No	Yes	Yes
Fulfills requirements of UC's OA policies	Yes	No	No







# TEAMWORK

**Pick any two impact areas and design services to support them, taking into consideration:**

- **Who is your audience?**
- **Do you need new products for these services?**
- **What level of service (awareness, hands-on, new role, etc.)?**
- **What do you think your service should NOT include?**



# Potential Library Services

## Provide Training:

- Citation Tracking/Tools
- Article level metrics
- Research dissemination platforms

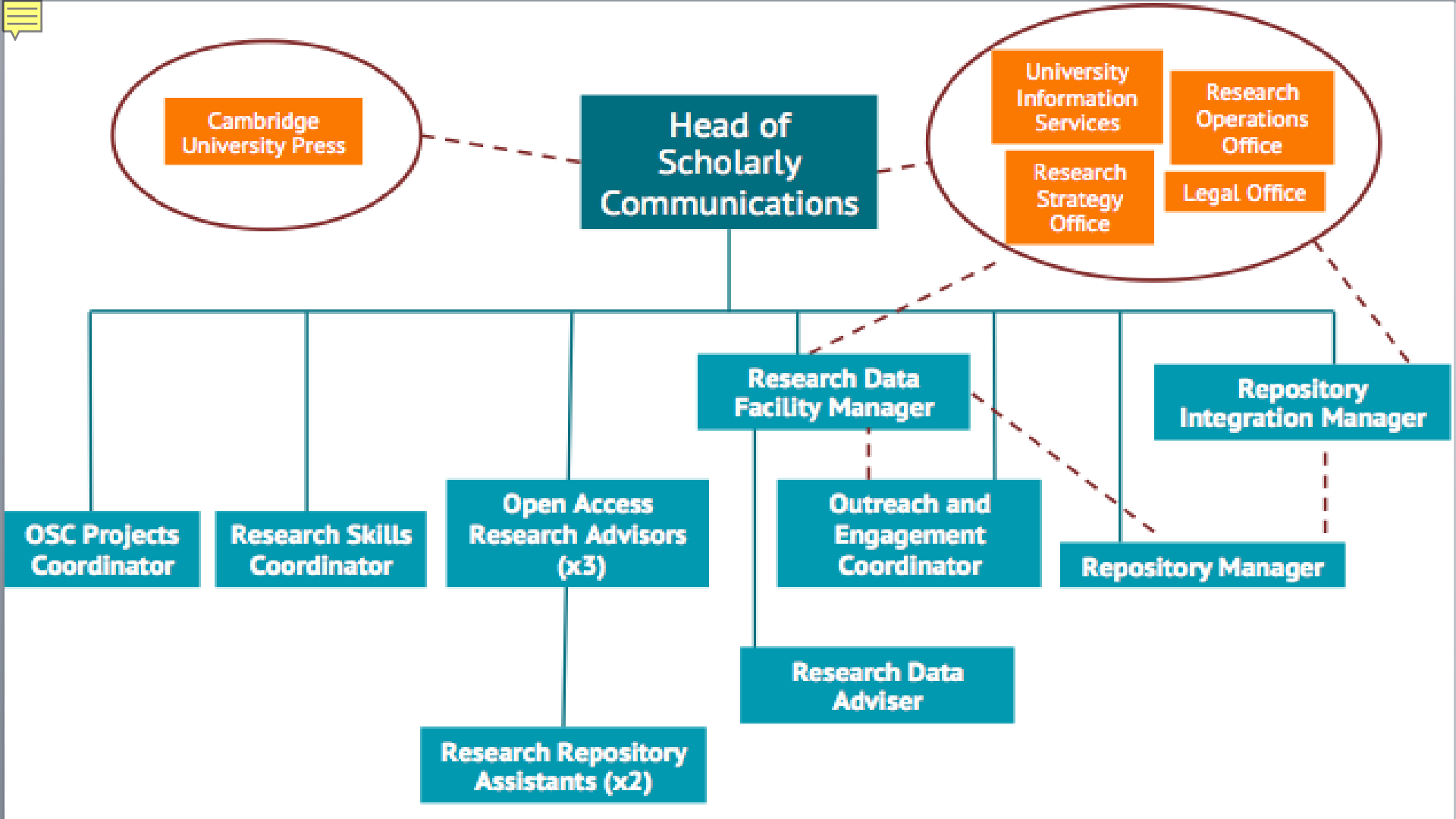




# Institutional Productivity













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THANK YOU

