





Publishing *and Thriving* in the 21st c.

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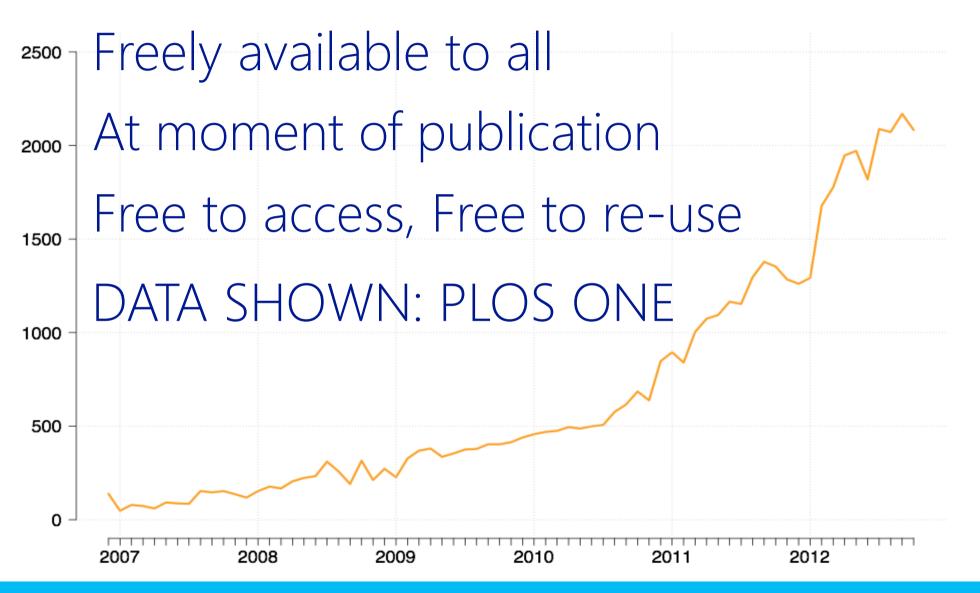


PLOS: Public Library of Science

- Founded in 2003 as an open access publisher
- Seven journals today in life sciences and biomedical science
- Published ~80k articles to date
- PLOS ONE is the largest journal in the world
- Mission: transform scholarly communications

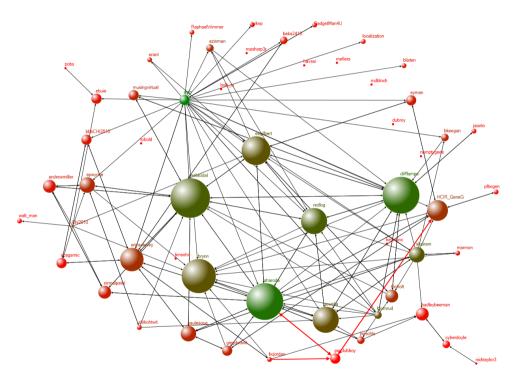


PLOS Publication Growth Rate





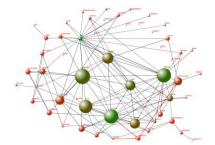
Networked-enabled research is premised on the capacity for connectivity



See Cameron Neylon's Feb 6, 2012 blog post on "network-enabled research" http://cameronneylon.net/blog/network-enabled-research/.



Our Strategy



Optimize network-enabled research by building infrastructure that supports more efficient transactions

How have we done this?

- Pioneered open access publishing model
- Redefined publication criteria
- Inaugurated new framework for research assessment



Research Assessment

HOW do you measure research? Journal-level metrics have failed us

Impact = Use & Reach



Use & Reach

Researchers work within a diverse ecosystem of channels to comment on, share, & critique research:

- article access,
- scholarly and nonscholarly citations,
- blog and news coverage,
- social network sharing
- research community conversations

Article-Level Metrics (ALM)

Article-Level Metrics captures the online engagement of researchers in the community and measures it in a transparent and comprehensive manner.



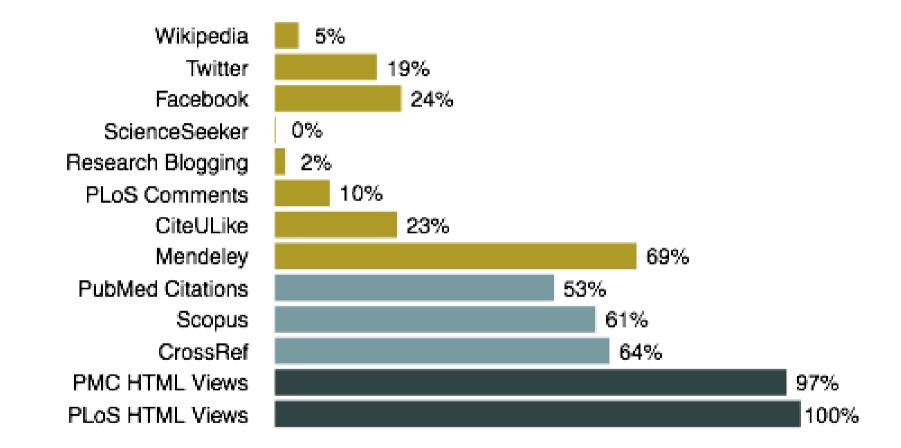


Conventional measures are a part of the

puzzle...

199,913,959 HTML pageviews		100%
Article-Level Metrics for 80,602 PLOS	49,450,006 PDF downloads	24.7%
papers published until May 20, 2013.	481,771 CrossRef citations	0.2%

A broader view of research engagement



Proportion of articles covered by source Metrics for 77,385 PLOS articles. Data collected April 11, 2013



ALMs: greater granularity, more dimensionality

Usage

PLOS Journals (HTML, PDF, XML)

PubMed Central (HTML, PDF)

Citations

CrossRef Scopus Web of Science PubMed Central

Altmetrics

PLOS Comments

Mendeley CiteULike ResearchBlogging

Facebook Twitter Wikipedia



ALMs reveal what articles are used

PLOS articles funded by Doris Duke Foundation

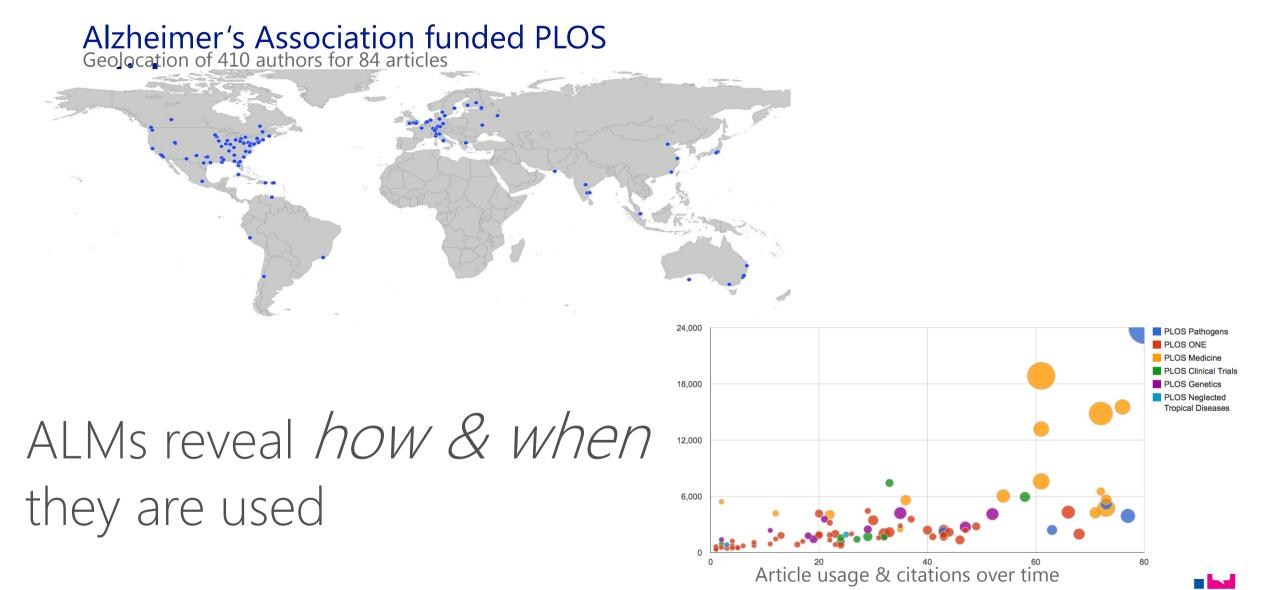
Rectangle size correlates with total views (HTML and PDF) from PLOS website. Color intensity correlates with number of Scopus citations.

	0		169	338
	Pathology	Microbiology	Other	
Public Health and Epidemiology	Cardiovascular Disorders	Cell Biology		
		Diabetes and Endocrinology	Women's Health	Physiology
	Biochemistry	Science Policy	Nutrition	Mathematics
Infectious Diseases	Non–Clinical Me	dicine Vi	rology	Immunology
	Genetics and	Genomics	Oncolo	ду

Article Usage and Citations by Subject Category



ALMs reveal where articles are used

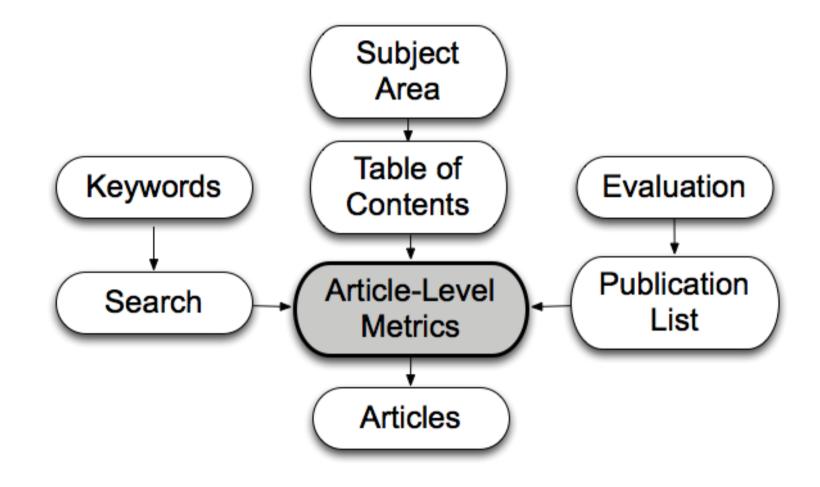


Benefits:

- Diverse and efficient measurement
- Increased diversity without losing traditional value
- Accelerated measurement response
- Easier to own and manage
- Flexibly accommodates varied uses



ALMs & research discovery



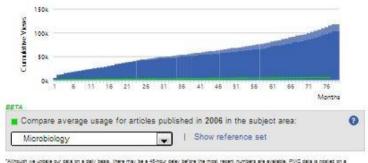


ALMs at work:

- article signposts
- search result listings
- sorting search results
- related content author listings
- RSS feeds
- [article recommendations]
- [researcher profiles]
- [editor assignments]

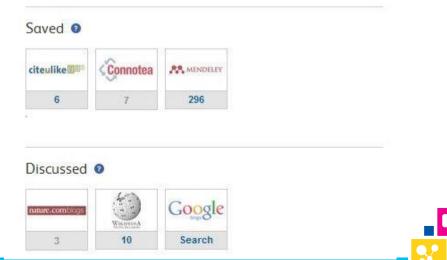


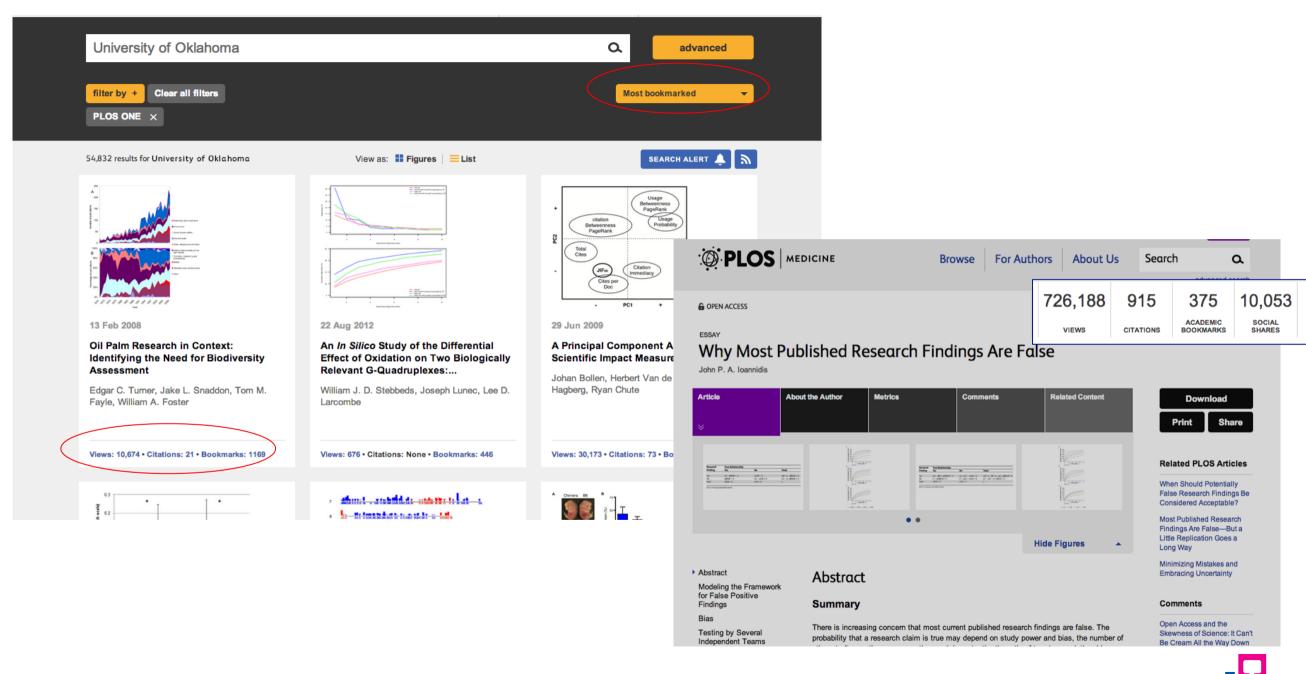




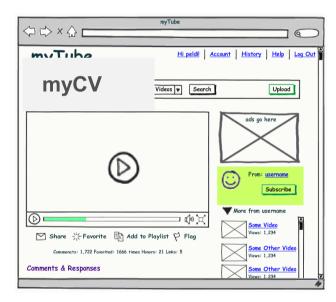
[&]quot;Although we update our data on a daty basis, there may be a 45-hour delay before the most recent numbers are evaluate. PIVC data is posted on a monthly basis and will be made evaluate once received.

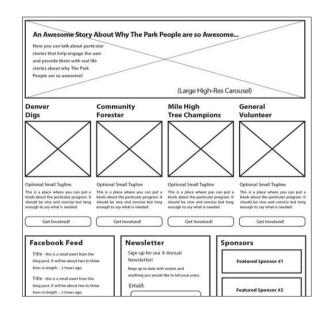






On the horizon...





Containing text:		15	Case sensitive
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O Working set:		Q	Choose
	190		

Researcher CV

Tenure Portfolio

Funding Application

Next steps for ALMs

- Coordination & standardization between data aggregators
- Breakthrough technologies to measure the current "unmeasurables" (downstream impact)
- Data validation and anti-gaming mechanisms
- New services
- More bibliometric research



Publish & Perish? Thrive!

- More channels to share your research
- Open access movement reaching tipping point
- Broader diversity of research objects formally recognized (for credit)
- Greater alignment of incentive structures with researcher workflows to encourage sharing
- Power of digital tools to find, mine, use, & reuse content
- Creative experiments in peer review & story telling, &tc...



Access is Critical Keep it Open

Thank You Jennifer Lin PLOS, Senior Product Manager jlin@plos.org @plosalm





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