

# Enhance your publication strategy with Altmetric data and tools

8 November 2018

# Housekeeping

- Questions in the question box
- Let us know if you can't hear or see
- Webinar will be recorded



# Our speakers



Cat Williams Altmetric



Sara Grimme Digital Science



# What we'll cover

- An introduction to altmetrics
- Using altmetrics to guide your editorial strategy
- Altmetric as a tool for attracting new authors
- Maximising reach and influence of your content
- Q&A



# Altmetrics: why and what?

# $\begin{array}{l} \textbf{RESEARCH} \rightarrow \\ \textbf{ACCOUNTABLE TO MORE AUDIENCES} \\ \textbf{AND STAKEHOLDERS} \end{array}$



- Academia
- Practitioners
- General Public
- Educators and students
- Media and influencers
- Artists

- Funders
- Unaffiliated researchers
- □ Special interest groups
- Government and policy

makers

Corporations





Why are they needed?





# Reflecting broader engagement

#### ACADEMIC ATTENTION

Journal Impact Factor Citation counts H-index Number of publications

Traditional bibliometrics

#### BROADER ATTENTION

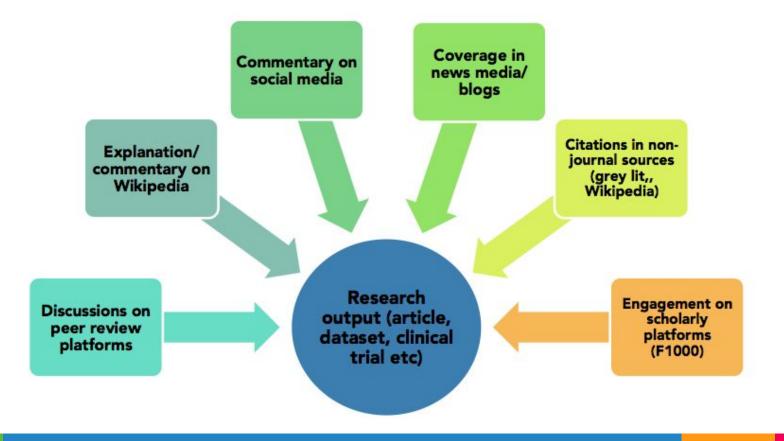
Mentions in news reports References in policy Mentions in social media Wikipedia citations Reference manager readers... etc.

> Alternative metrics "altmetrics"

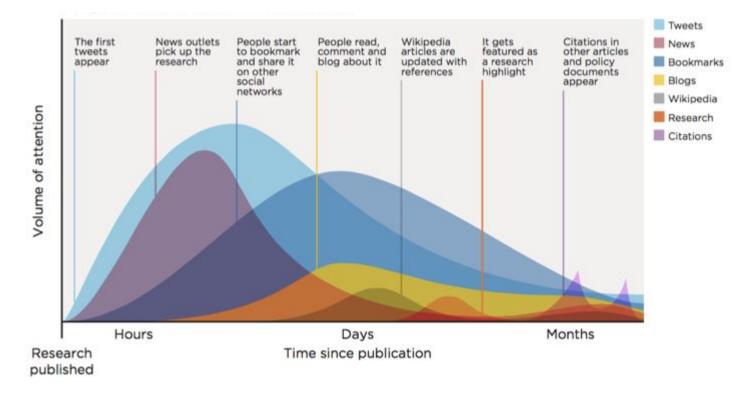


*altmetrics* Indicators of online engagement that complement traditional citation impact metrics.

# Who's engaging?



# A typical timeline of attention



#### Qualitative

- Who/what/where/when
- Transparent
- Facilitates engagement analysis

#### Quantitative

- Answers: How many or how much?
- Often opaque

# How are they useful?

## Challenges for authors

Finding potential collaborators

Getting their work seen and read

Attracting new funding

Evidencing broader reach and influence

Prioritizing what to read

Deciding where to publish



## Publisher challenges

- Making informed strategic decisions
- Adding value for readers, authors and subscribers
- Attracting and keeping the best authors
- Demonstrating importance of content
- Creating engaging marketing campaigns
- Supporting research communities



### How can altmetrics help?

- Understand (and help your audience understand) how published research is being received and interpreted
- **Report** back to authors and editorial boards
- Measure the success of outreach and promotional activity
- Identify hot topic content and guide future strategy
- Demonstrate innovation and play a part in the wider conversation



## How does it work?

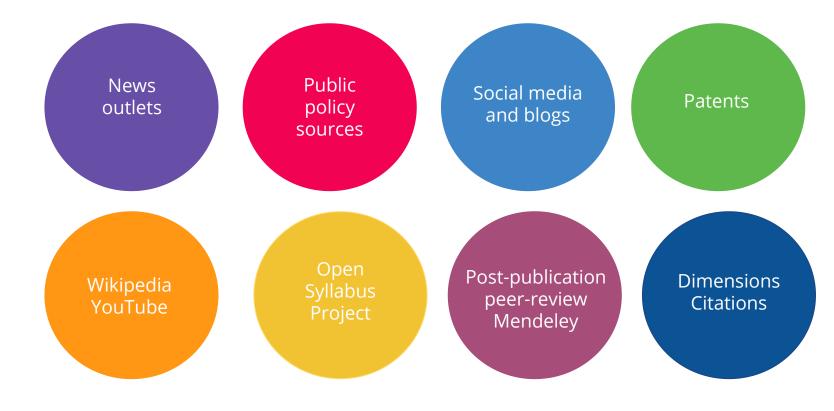
#### Linking mentions to content

An <u>output</u> (journal article, dataset, etc) An <u>identifier</u> attached to the output (DOI, PMID, etc)

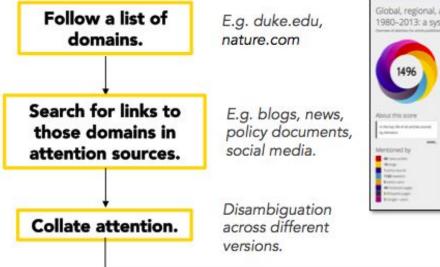
Mentions of output in a <u>source</u> we track



#### Sources of attention



## Collating attention





Display data in Altmetric Details Pages.



#### The donut and score



Tweeted by **293** Blogged by **4** On **200** Facebook pages Mentioned in **6** Google+ posts Picked up by **1** news outlets Mentioned in **1** LinkedIn forums Reddited by **2** On **1** videos

166 readers on Mendeley1 reader on Connotea3 readers on CiteULike



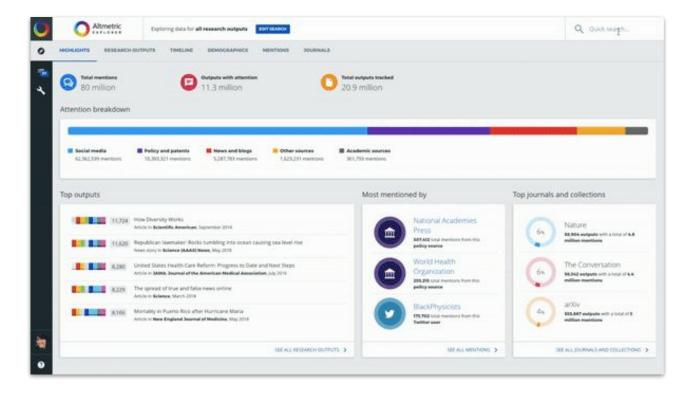
# Journal badges

- Available on thousands of journals
- Update in real time
- At-a-glance summary of online attention





#### Altmetric Explorer



# Be responsible!

- An indicator, not the full story
- Complement expert opinion and other metrics
- Look beyond the numbers



Tweeted by 293 Blogged by 4 On 200 Facebook pages Mentioned in 6 Google+ posts Picked up by 1 news outlets Mentioned in 1 LinkedIn forums Reddited by 2 On 1 videos

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Using altmetrics to guide your editorial strategy

# Publisher challenges - a quick recap

- Making informed business decisions
- Adding value for readers, authors and subscribers
- Attracting and keeping the best authors
- Demonstrating importance of content
- Creating engaging marketing campaigns
- Supporting research communities

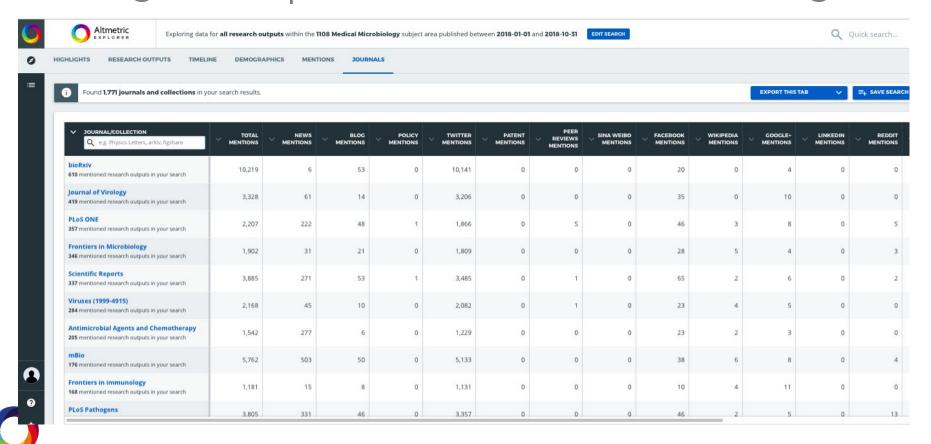


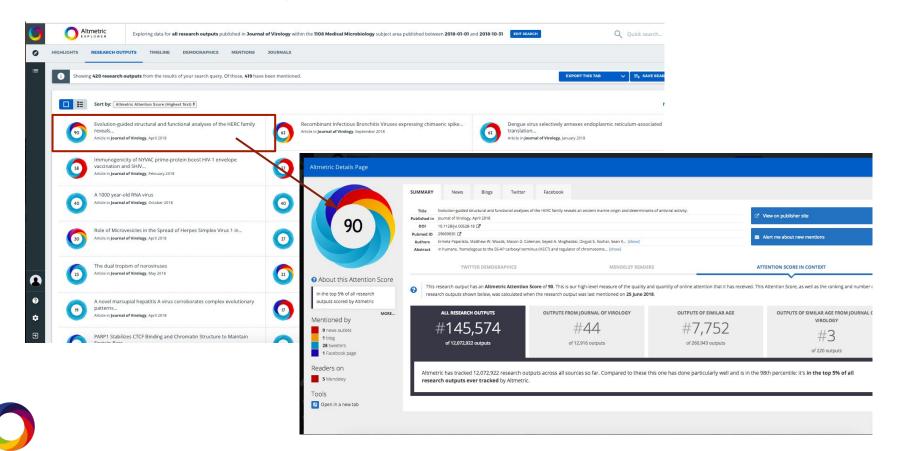
# Publisher challenges - a quick recap

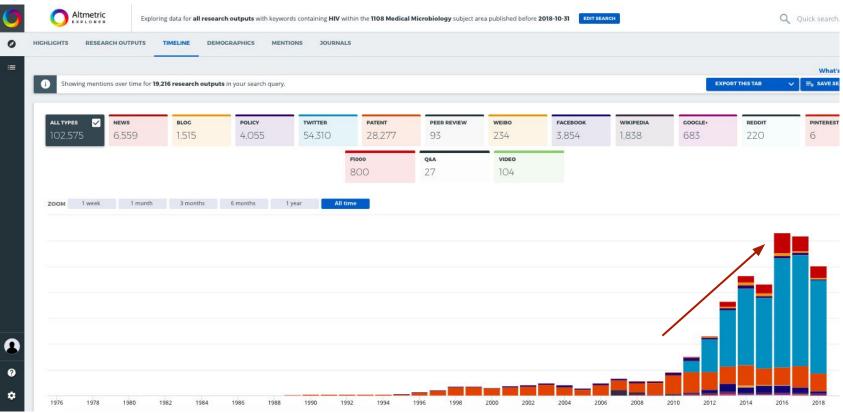
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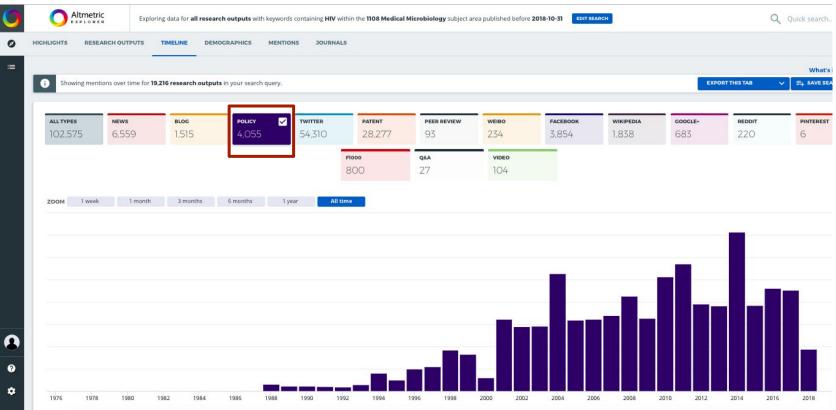


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#### The bioRXiv - a tool for commissioning?

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	82 Rapid Diagno Clinical Article in <b>bioRxiv</b>	sis of Lower Respiratory Infection using Nanopore-based	7	Personal clinical history predicts antibiotic resistance in urinary tract Article in <b>bioRxiv</b> , August 2018	$\bigcirc$	Bacteriophage cooperation suppresses CRISPR-Cas3 and Cas9 imm Article in <b>bioRxiv</b> , March 2018
	71 Origins and E Article in <b>bioRxiv</b>	volution of the Global RNA Virome October 2018	66	CRISPR-Cas9 Interference in cassava linked to the evolution of editing Article in <b>bioRxiv</b> , May 2018	60	Fecal pollution explains antibiotic resistance gene abundances in Article in <b>bioRxiv</b> , June 2018
	60 Chromulinavo unusual Article in <b>bioRxiv</b>	orax destructans, a pathogenic TM6 bacterium with an July 2018	58	Stronger connectivity of the resident gut microbiome lends resistance to Article in <b>bioRxiv</b> , February 2018	55	Visualization of the type III secretion mediated Salmonella-host cell interface Article in <b>bioRxiv</b> , June 2018
	SI Worldwide su Article in <b>bioRxiv</b>	rvey reveals lower susceptibility of African Aedes aegypti June 2018	50	Anopheles Mosquitoes May Drive Invasion and Transmission of Mayaro Virus across Article in <b>bioRxiv</b> , June 2018	45	Convergent gain and loss of genomic islands drives lifestyle change: plant Article in <b>bioRxiv</b> , June 2018
	High-resolutio inference Article in <b>bioRxiv</b>	on sweep metagenomics using ultrafast read mapping and	(4)	High-resolution analysis of the pneumococcal transcriptome under a wide range Article in <b>bioRxiv</b> , March 2018		SUCCESSIVE BLOODMEALS ENHANCE VIRUS DISSEMINATION WITHIN MOSQUITOES AND Article in <b>bioRxiv</b> , January 2018

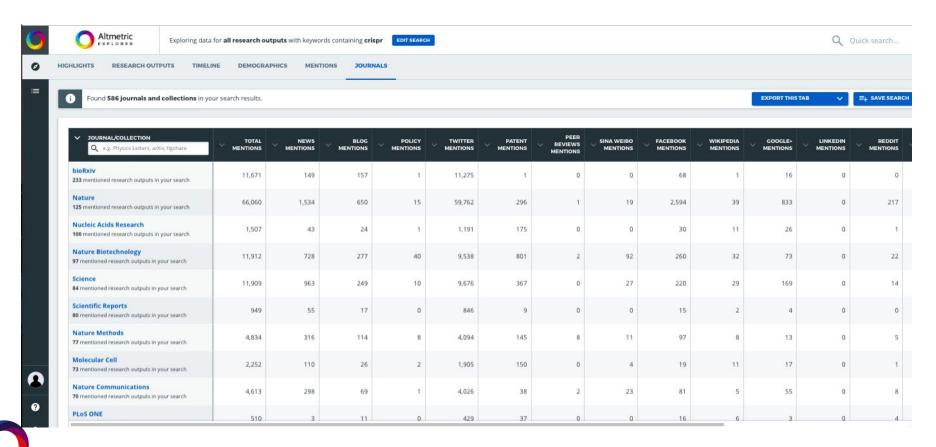
#### What about new journal launch ideas - CRISPR?

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#### What about new journal launch ideas - CRISPR?

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#### What about new journal launch ideas - CRISPR?



## Finding new authors - CRISPR

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(1660)	Inactivation of Article in Science, A	porcine endogenous r <sub>Nugust</sub> 2017	etrovirus in pigs usi	ng CRISPR-Cas9	615	A CRISPR-Cas9 gene drive targeting doublesex causes complete population Article in Nature Biotechnology. September 2018	(505)	CRISPR-Cas9 genome editing induces a p53-mediated DNA damag response Article in Nature Medicine, June 2018
(1278)	The Heroes of Article in <b>Cell</b> , Janua				(088)	Genome-editing revolution: My whirlwind year with CRISPR. Article in <b>Nature</b> , December 2015	1084	Real-space and real-time dynamics of CRISPR-Cas9 visualized by hi speed Article in Nature Communications, November 2017
947	RNA editing wit Article in Science, 0	th CRISPR-Cas13 October 2017			905	Nanoparticle delivery of CRISPR into the brain rescues a mouse model of fragile Article in Nature Biomedical Engineering. June 2018	682	Response to Editas: Unexpected mutations after CRISPR-Cas9 edit <i>in vivo&lt; Article in <b>bioRxiv</b>, June 2017.</i>
<b>878</b>	CRISPR-Cas12a DNase Article in Science, F	target binding unleas ebruary 2018	hes indiscriminate s	ingle-stranded	<b>(</b> 797 <b>)</b>	p53 inhibits CRISPR–Cas9 engineering in human pluripotent stem cells Article in <b>Nature Medicine</b> , June 2018	(756)	A CRISPR-Cas9 gene drive system targeting female reproduction in malaria Article in <b>Nature Biotechnology</b> , December 2015
[74]	Nucleic acid de Article in Science, A	tection with CRISPR-Ca April 2017	as13a/C2c2		637	Cpf1 Is a Single RNA-Guided Endonuclease of a Class 2 CRISPR-Cas System Article in <b>Cell</b> , October 2015	598	CRISPR-Cas9 gene repair of hematopoietic stem cells from patients X-linked Article in Science Translational Medicine, January 2017

## Attracting new authors - CRISPR

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	53 gene	posing endogenous type I CRISPR-Cas systems for programmable Nucleic Acids Research, October 2014	Bacteriophage DNA glucosylation impairs target DNA binding by type I and II but Article in Nucleic Acids Research, December 2017	Programmable repression and activation of bacterial gene express using an Article in Nucleic Acids Research, June 2013
	30 stem c	efficient genome editing via CRISPR-Cas9 in human pluripotent ells Nucleic Acids Research, September 2018	Repurposing the CRISPR-Cas9 system for targeted DNA methylation     Article in Nucleic Acids Research, March 2016	Advances in CRISPR-Cas9 genome engineering: lessons learned fr RNA Article in <b>Nucleic Acids Research</b> , March 2015
	26 coliace	ปรPR RNA-guided surveillance complex inEscherichia iommodates N <b>ucleic Acids Research</b> , May 2016	Functional validation of mouse tyrosinase non-coding regulatory DNA elements by Article in Nucleic Acids Research, April 2015	Programmable control of bacterial gene expression with the comb CRISPR and Article in <b>Nucleic Acids Research</b> , February 2016
	22 proteir	RISPRdb: a comprehensive online resource for anti-CRISPR IS Nucleic Acids Research, September 2017	CRISPR-CAS9 D10A nickase target-specific fluorescent labeling of double strand Article in Nucleic Acids Research, October 2015	Item to create state-of-the-art genetic model systems: strategies for optimal           Article in Nucleic Acids Research, June 2018
	fixed	AC (Polycistronic SunTAg modified CRISPR) enables live-cell and	Implementation of the CRISPR-Cas13a system in fission yeast and its repurposing Article in Nucleic Acids Research, May 2018	CHOPCHOP v2: a web tool for the next generation of CRISPR geno engineering Article in Nucleic Acids Research, May 2016

## Competitor intel & the positioning of journals

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Frontiers in Neuroscience 805 mentioned research outputs in your search	10,626	330	84	0	9,964	0	2	o	173	23	22	0	2
Neuroscience 422 mentioned research outputs in your search	3,519	52	5	0	3,250	0	0	0	189	3	10	0	
Neuropsychopharmacology 291 mentioned research outputs in your search	5,609	193	34	0	5,268	0	0	0	78	3	7	0	1
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Current Neuropharmacology 36 mentioned research outputs in your search	85	8	<i>ः</i> 1	0	70	0	0	o	5	1	0	0	
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## Using the explorer to showcase new journals

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□ =	Sort by: Altmetric Attention Score (Highest first) +				
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(199)	The environmental costs and benefits of high-yield farming Article in <b>Nature Sustainability</b> , September 2018	(0)	Quantification of energy and carbon costs for mining cryptocurrencies Article in <b>Nature Sustainability</b> , November 2018	Global assessment of agricultural sy Article in Nature Sustainability, August 2018	
03	The urban south and the predicament of global sustainability Article in <b>Nature Sustainability</b> , July 2018	00	The water footprint of water conservation using shade balls in California Article in <b>Nature Sustainability</b> , July 2018	Evidence that organic farming prom Article in Nature Sustainability, July 2018	iotes pest control
(22)	Social-ecological outcomes of agricultural intensification Article in <b>Nature Sustainability</b> , June 2018	$\bigcirc$	The challenge of feeding the world while conserving half the planet Article in <b>Nature Sustainability</b> , August 2018	Targeted emission reductions from units Article in Nature Sustainability, January 201	
(162)	Environmental challenges for the Belt and Road Initiative Article in <b>Nature Sustainability</b> , May 2018	(159)	Building a global urban science Article in <b>Nature Sustainability</b> , January 2018	Water competition between cities an change and Article in Nature Sustainability, January 201	
[127	Extreme air pollution from residential solid fuel burning Article in Nature Sustainability, September 2018	(124)	Addressing poaching in marine protected areas through voluntary surveillance Article in Nature Sustainability, August 2018	Aiming higher to bend the curve of Article in Nature Sustainability, September 3	

## What else can the Explorer answer?

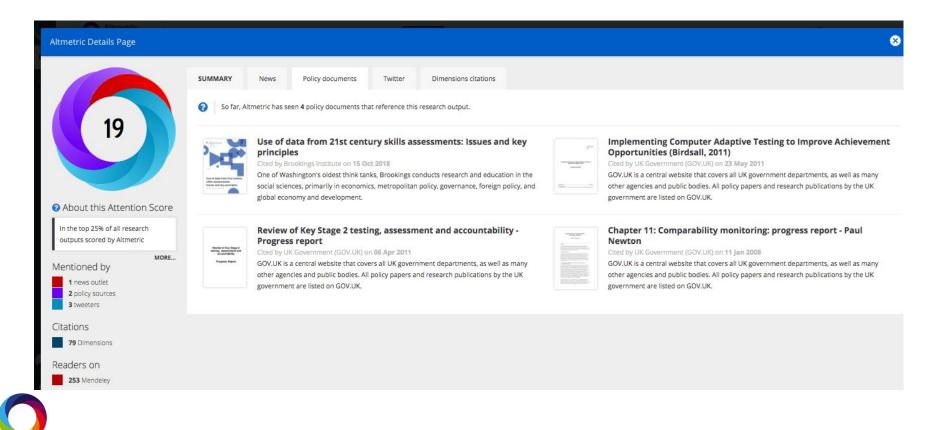
- Which authors are getting the most attention in the fields that I cover?
  - Where are these authors publishing?
  - Is there a cluster of authors in one title?
  - What are the sub-fields attracting most attention?
- Are there visible trends that can drive book acquisition, given the time lag needed for book acquisition?
- How do attention trends for books differ from journals, and how can I use this to show the merit in book publishing?
- How is my content driving policy?

## Publisher challenges - a quick recap

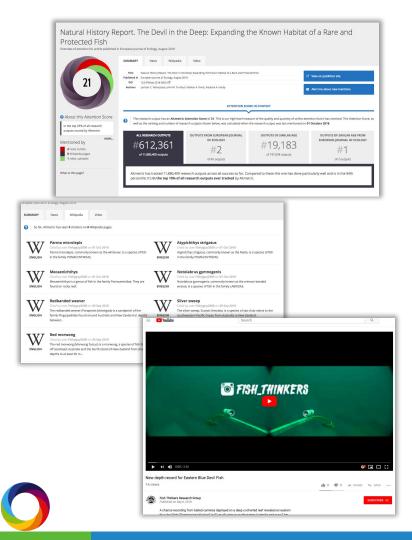
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## Scholarly output and public policy



Maximising reach and influence



- Who are our current audiences?
- Who are other stakeholders with whom we need to engage?
- How do we define impact related to our publications and communication?
- What are the information pathways to increased impact?

### Using Altmetric to Boost Engagement and Track Trends on Social Media

# Weekly check in on trending articles and promotion

- Finding news stories mentioning publications and sharing on social.
- Sharing top 10 trending articles from the past 7 days.



Many of the articles in our @Altmetric top 10 have been featured in the news. This story from January on @ConversationUK looks at the biological reason why it's so hard for teenagers to wake up early for school theconversation.com/the-biological ... @DrPaulKelley



The biological reason why it's so hard for teenagers to wake up early for school Science shows that early starts can be bad for teenagers' health. Schools and universities would be better off starting at 10am. thecomversation.com



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## Analyzing connections between marketing, dissemination, impact, and readership of your publications

In 2017 the organization launched the the Journal of The Endocrine Society (JES).

After noticing a sharp increase in JES readership last fall, the Society wanted to assess which distribution and marketing channels had contributed to this spike.

Boo

Adu

Discovered high impact publication driving up readership via the Altmetric Explorer







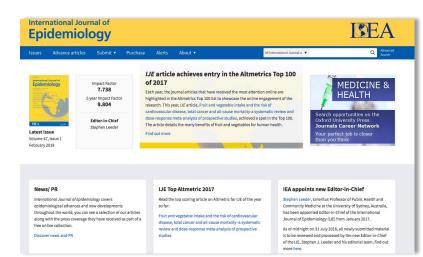
- The Endocrine Society examined news mentions and social media shares of the article via the Altmetric Details Page, noting rich online attention long before citations would accrue.
- Able to correlate broad, global, targeted attention to increased readership, page views, etc. and use data to inform future distribution and dissemination strategies.

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### Why Publish in JAMA Ophthalmology?

JAMA Ophthalmology publishes innovative, clinically relevant research in vision science.

### Impact and Reach

- · Impact Factor of 5.6, one of the highest in ophthalmology
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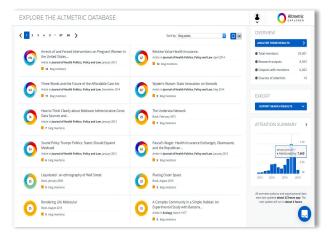
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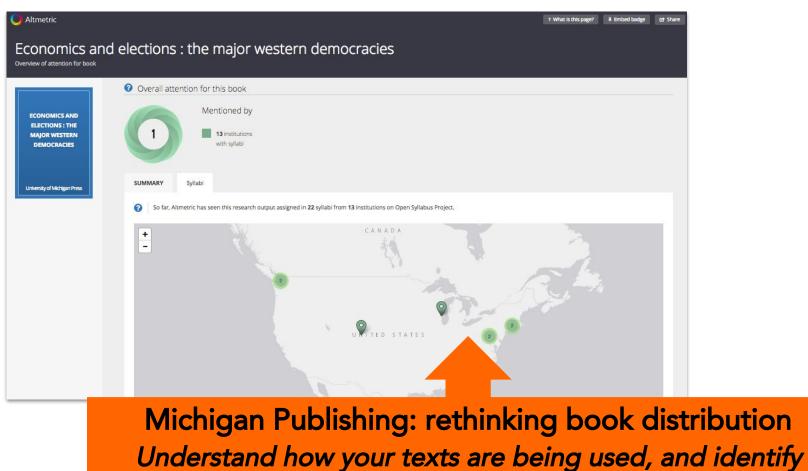
- Wikipedia edit-a-thons with faculty editors
- Support evidence of impact for vital humanities and social science non-JIF publications
- Use Explorer to monitor for potential negative attention











opportunities to extend or reintroduce

## Where next?

## Jump into the data

- Via the badges on journal pages
- In the Explorer
- Check out the Altmetric site for useful tips and tricks

