

Your Institutional Research Enterprise: Tools for Illuminating and Communicating Its Impact and Influences, and Strategizing for Future Development

7th Annual NORDP Research Development Conference

Bethesda --- April 29 - May 1 2015

Panel Discussion

Presented by

Melanie Gardner
Acting Assoc Director, Information Products Division
Acting, Information & Customer Services Branch Chief
Digital Library Branch Chief
National Agricultural Library
Melanie.gardner@ars.usda.gov

Colleen Willis
Sr. Librarian, Digital Strategies and Technology
National Academies – Library/Research Center
cwillis@nas.edu

Kelsey Rosell
Director of Sales
Digital Science and Symplectic
kelsey.rosell@symplectic.co.uk

Sara Rouhi
Product Specialist
Altmetric
Sara@altmetric.com

The RIM System: Essential Support for the Research Enterprise

The Research Information Management (RIM) System – for a university, provides the capability to measure, better understand, and evaluate the strength of one's research enterprise.

The necessary, foundational strength of a RIM system is its role as **an authoritative institutional data source**, dedicated to supporting the capture, linking and dissemination of information associated with the research lifecycle.

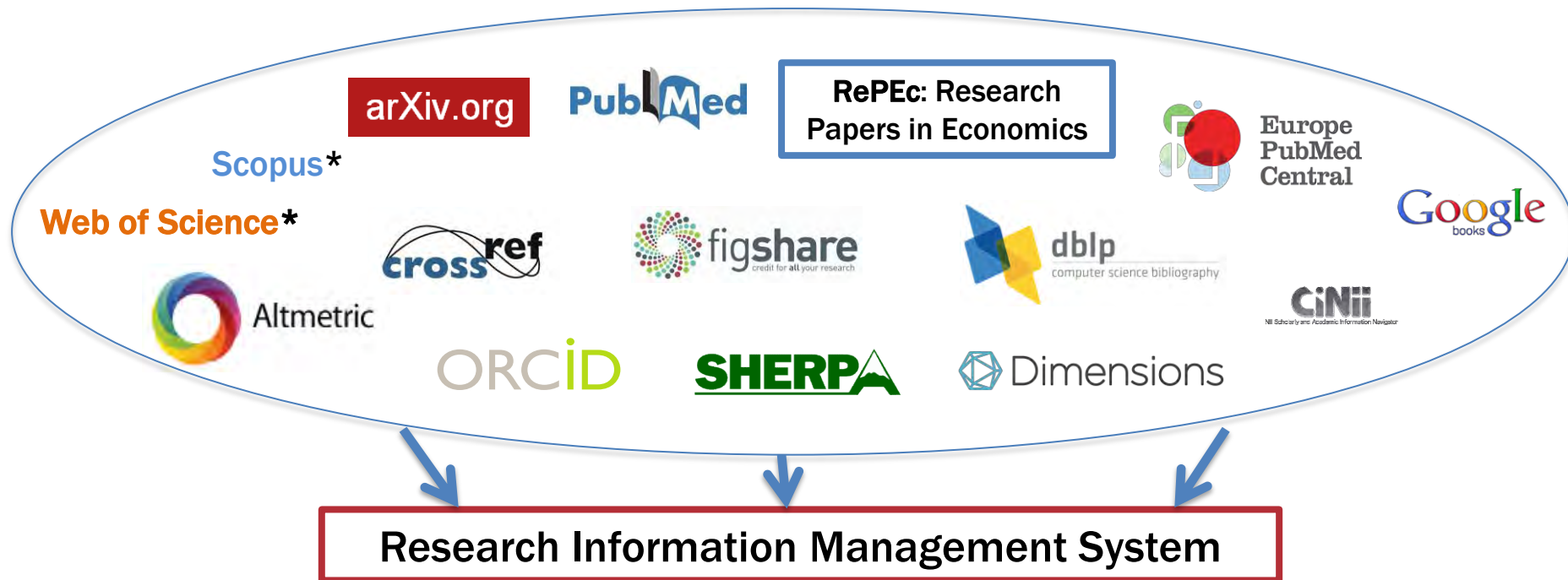
The RIM system classic data model includes:

- Person data (incl. positions, skills, cv)
- Research Outputs (e.g. publications) and Datasets
- Patents
- Grants and projects
- Professional & teaching activities
- Org Units (e.g. research groups)
- Equipment and facilities

The RIM System: Essential Support for the Research Enterprise

The Research Information Management (RIM) System – as an authoritative institutional data source, should **facilitate capture of critical information in a manner that reduces the burden on faculty.**

Auto Harvesting and Disambiguation of Research Output Data



Integration of internal data from institutional resources may occur as well, typically from HR systems, Grant Management systems, etc.

* with license

The RIM System: Essential Support for the Research Enterprise

The Research Information Management (RIM) System – diverse authoritative data, **made available for re-use**.

My Publications			
		Author	
Books	+	1	Export
Book Chapters	+	0	
Conferences	+	1	Export
Journal articles	+	91 / 8	Export
Scholarly editions	+	0	
Blogs	+	0	
Podcasts	+	0	
See more		0	
TOTAL		93 / 8	Export

My Grants

My Teaching Activities			
		Total	
Courses taught	+	2	Export
Courses developed	+	0	
See more		2	
TOTAL		4	Export

My Professional Activities			
		Total	
Editorials	+	0	
Honours / Awards	+	3	Export
Distinctions	+	0	
Memberships	+	1	Export

The RIM System: Essential Support for the Research Enterprise

RIMs themselves should help to establish relationships between people, publications, grants, etc. ...

Create links between...

☒ Publications
☐ Professional activities
☐ Projects
☐ Teaching activities

☐ Grants
☐ Organisational structures
☐ Pieces of equipment

... and...

☐ Publications
☐ Professional activities
☐ Projects
☐ Teaching activities

☒ Grants
☐ Organisational structures
☐ Pieces of equipment

Publications

Current filters:

Change

- **Linked to:** Nicholas Coops
- **Published:** from 11/03/2012

We've found 87 matching results. Here are the top 25:

[Select all](#) / [Clear all](#)

☐ Mapping Above- and Below-Ground Biomass Components in Subtropical Forests Using Small-Footprint LiDAR [View](#)

1 existing link (to a user)

☐ Exploring the ecological processes driving geographical patterns of breeding bird richness in British Columbia, Canada. [View](#)

Grants

Current filters:

Change

- **Linked to:** Nicholas Coops
- **Date range:** from 11/03/2010

We've found 1 matching result:

[Select all](#) / [Clear all](#)

☐ Canada Excellence Research Chair in Remote Sensing [View](#)

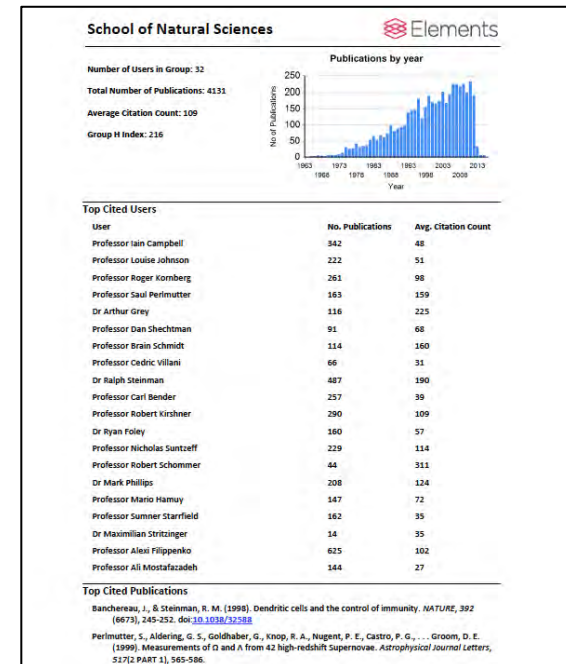
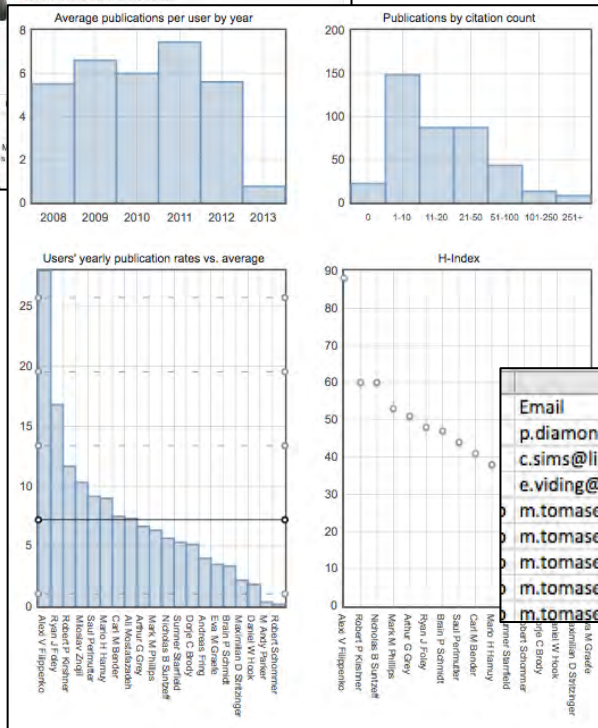
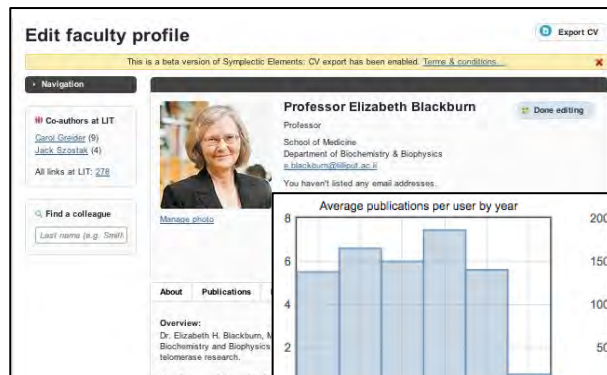
1 existing link (to a user)

Or you could...

Add a new grant

The Research Information Management (RIM) System – diverse authoritative data, **made available for re-use.**

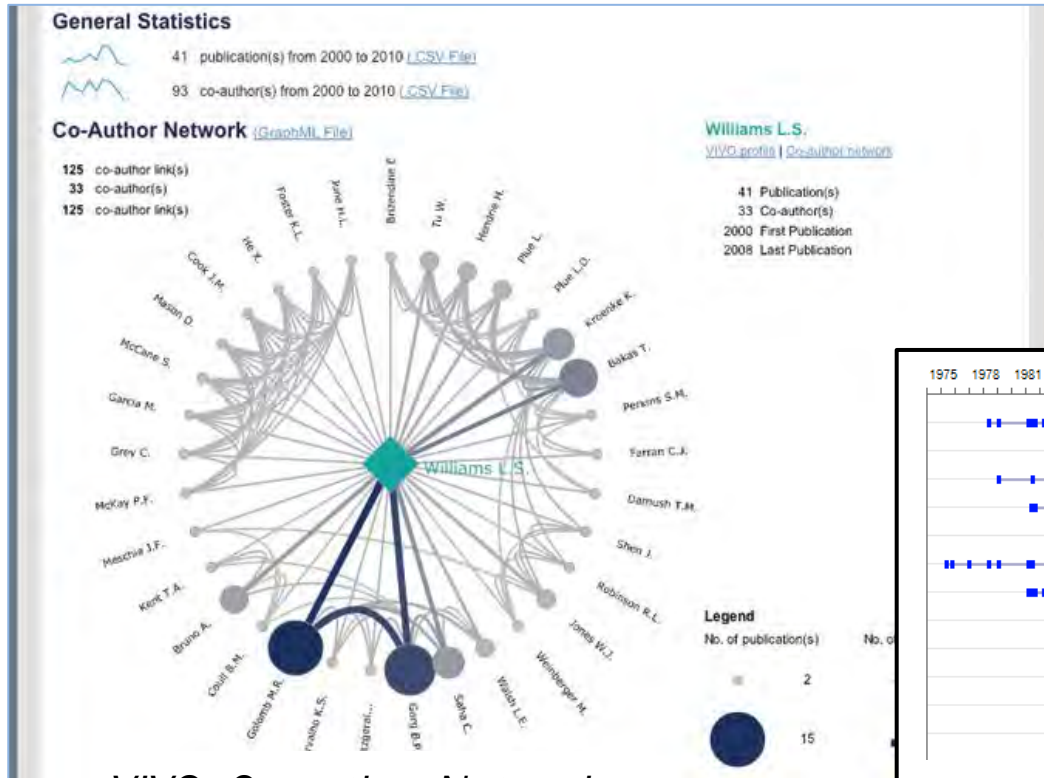
Reporting and CV generation...



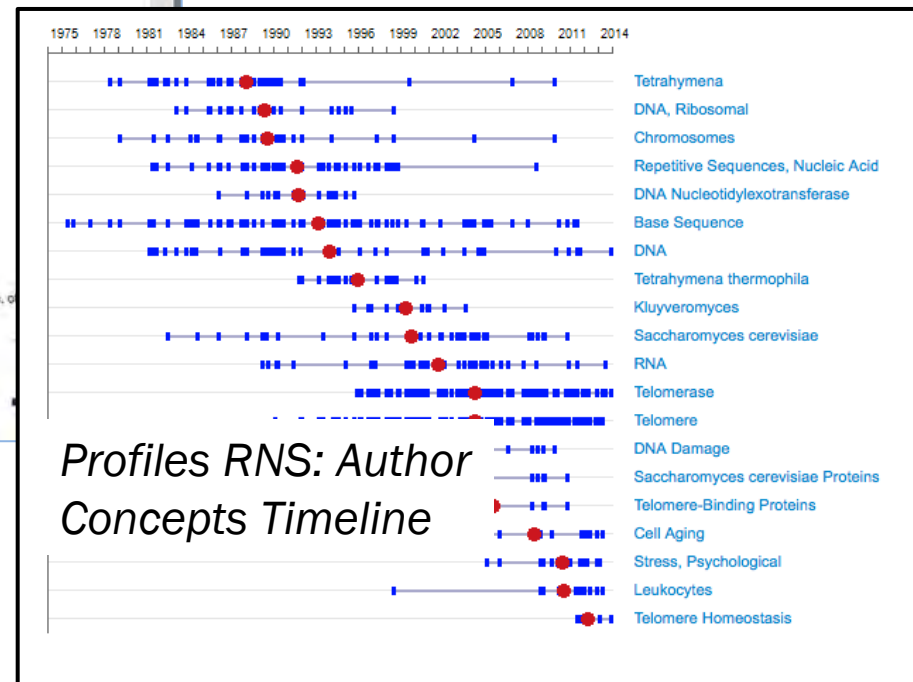
D	G	K	L	N	
Email	Primary group	Professional Activi	Reporting da	Awarded Date	Title
p.diamond@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/10	2010	Nobel Memo
c.sims@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/11	2011	Nobel Memo
e.viding@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/10	2010	BRITISH ACA
m.tomasello@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/11	2011	British Acad
m.tomasello@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/11	2011	Klaus Jacobs
m.tomasello@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/10	2010	Heineken Pr
m.tomasello@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/10	2010	Max Planck
m.tomasello@lilliput.ac.li	Faculty of Social Science Honour / Award		1/1/09	2009	Oswald KA

The RIM System: Essential Support for the Research Enterprise

RIMs help institutions visualize individual and institutional research networks in public facing profiles



VIVO: Co-author Network



The RIM System: Essential Support for the Research Enterprise

Support of Open Access Policy, Institutional and Funder

National Science Foundation
WHERE DISCOVERIES BEGIN

QUICK LINKS

SEARCH

FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

Office of Budget, Finance and Award Management (BFA)

DIAS Home
CAAR Branch
Policy Office
Sys
Vie
Seal
BFA

Dissemination and Sharing of Research Results

NSF Data Sharing Policy

Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF Grants. Grantees are expected to encourage and facilitate such sharing.

[Administration Guide \(AAG\)](#)

Australian Government
Australian Research Council

ARC OPEN ACCESS POLICY

The ARC has introduced a new open access policy for ARC funded research with effect from 1 January 2013. According to this new policy, the ARC requires that any publicly funded research project must be deposited into an open access institutional repository within a twelve (12) month period from the date of publication.

The ARC understands that some researchers may not be able to meet the requirements of current legal or contractual obligations. In these cases, the ARC will consider the requirements of the ARC's Open Access Policy, Project, Award, or Fellowship Rules and Agreements derived from a Project, Award, or Fellowship Rules and Agreements.

Policy for open access in the post-2014 Research Excellence Framework

March 2014/07
Policy development
Statement of policy

Institutions are advised to comply with this policy

This document sets out the details of a requirement that certain research outputs should be made open-access to be eligible for submission to the post-2014 Research Excellence Framework (REF). This requirement will apply to journal articles and conference proceedings accepted for publication after 1 April 2016.

Scottish Funding Council
Increasing further and higher education

Cymru Cymdeithasys
Ulrich Cymdeithasys
Higher Education Funding Council for Wales

hefcw

Department for
Employment and Learning
www.deln.gov.uk

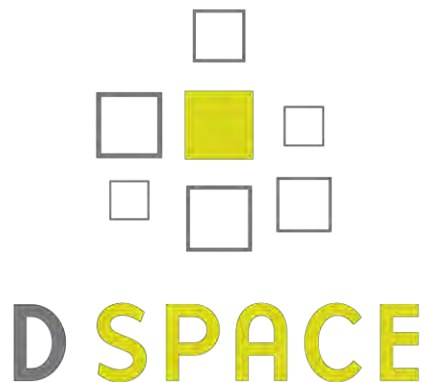
hefce
HIGHER EDUCATION FUNDING COUNCIL FOR ENGLAND

OGL
© HEFCE 2014
This publication is available under the Open Government Licence 2.0.
www.nationalarchives.gov.uk/doc/open-government-licence/version/2

The RIM System: Essential Support for the Research Enterprise

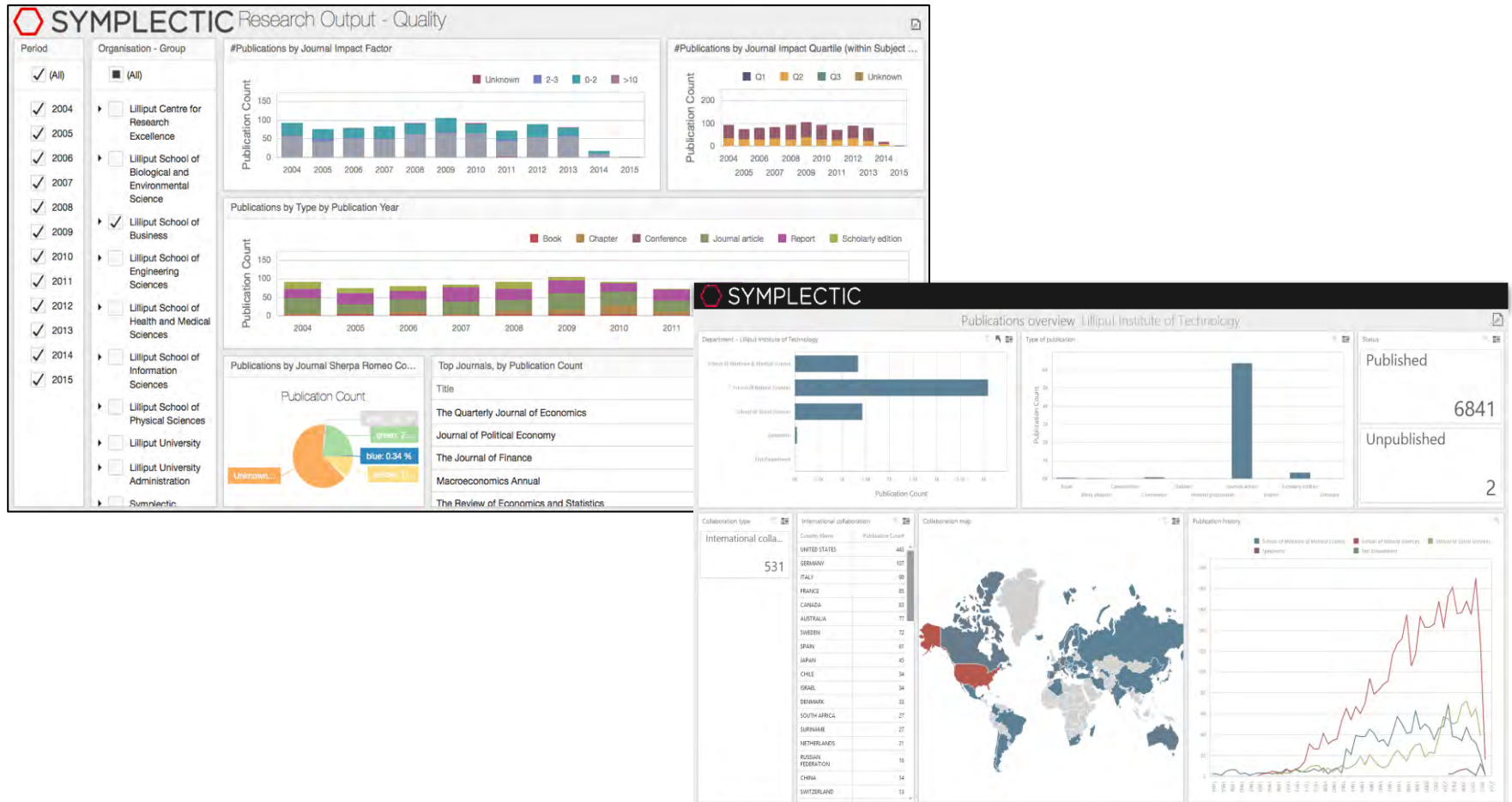
Support of Open Access Policy, Institutional and Funder
--- **Institutional Repository Integration**

RIMs, as an authoritative institutional data source should support the population of institutional digital repositories with captured publications metadata. The automatic detection of files elsewhere on the also web helps reduce the burden placed on academics.



The RIM System: Essential Support for the Research Enterprise

Analytics -- Key to Illuminating and Communicating Its Impact and Influences, and Strategizing for Future Development



The RIM System: Essential Support for the Research Enterprise



Publications, Grants, etc. –
Data Automatically Harvested
 from External Sources, and
 integrated from Internal Sources

My Publications			
	Author	Editor	
Books	1	0	Export
Book Chapters	0	0	
Datasets	0	0	
Conferences	1	0	Export
Journal articles	263 / 28	1	Export
Patents	0	0	
Reports	0	0	
Software	0	0	
Blogs	0	0	
See more	0	0	
TOTAL	265 / 28	1	Export

My Teaching Activities			
		Total	
Courses taught	1	1	Export
Courses developed	0	0	
Programs developed	0	0	
Course-based degree supervisions	1	1	Export
Graduate examinations	0	0	
Staff Mentoring	0	0	
Research-based degree supervisions	0	0	
TOTAL	2	2	Export

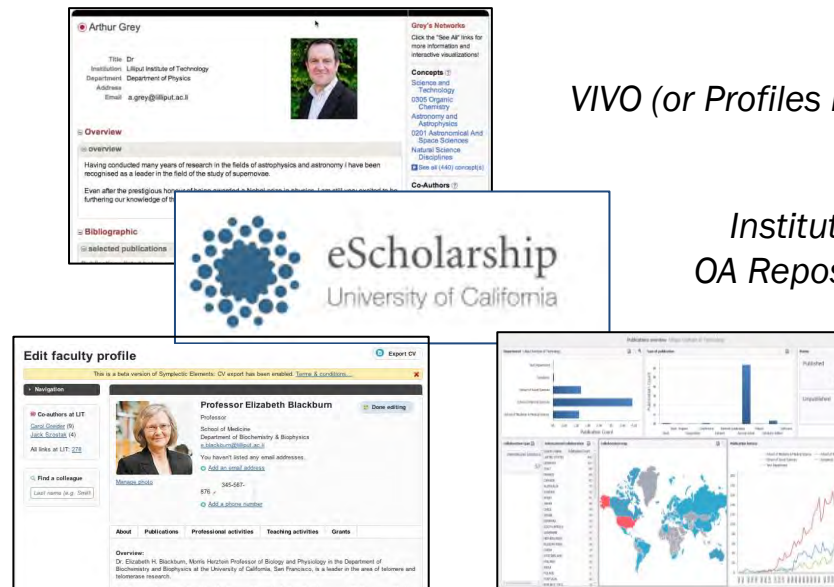
My Grants			
		Total	
Grants	4	4	Export
Fellowships	0	0	
Contracts	0	0	

My Professional Activities			
		Total	
Editorials	0	0	
Honours / Awards	5	5	Export
Distinctions	0	0	
Memberships	0	0	
Committee memberships	1	1	Export
Conference Participation	0	0	

Elements aggregates, organizes, de-duplicates
 data from multiple sources, preparing it for re-use

Capture of data within
 Elements provides for a
 range of reuse options for
 universities, streamlining
 processes and reducing
 the burden on staff
 – *and faculty.*

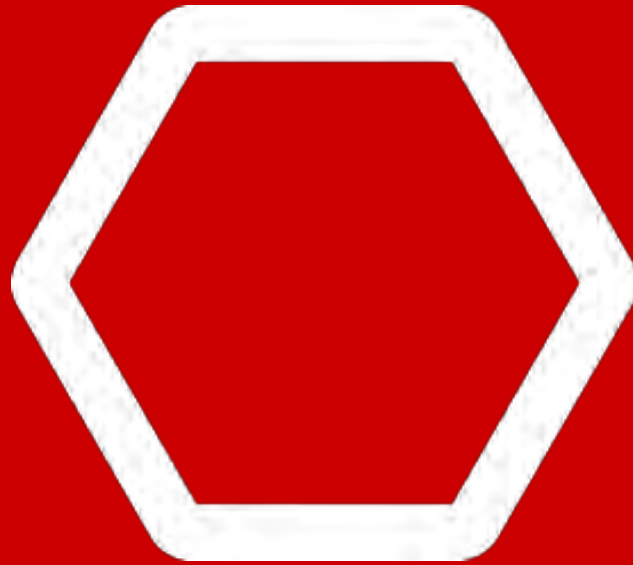
Profile and CV generation



VIVO (or Profiles RNS)

*Institutional
 OA Repositories*

Reporting and Analyses



Thank You!

symplectic.co.uk

USDA – Research

Melanie Gardner

Acting Associate Director, Information Products Division

USDA, ARS, National Agricultural Library

April 30, 2015



USDA Research ...

- Stove-piped by Agency
- Created USDA VIVO – research networking system
- Sources of data ...
 - Multiple systems
 - Dirty data
 - Incomplete data
 - Need for editing profiles and approving them before pushing to public web
- Now, public access is mandate – “PubAg”



Welcome to VIVO

The U.S. Department of Agriculture (USDA) provides leadership on food, agriculture, natural resources, rural development, nutrition, and related issues based on sound public policy, the best available science. USDA employs over 5,000 researchers to advance that science, and provides grants to many times that number of researchers outside the Department.

As research becomes more interdisciplinary, it can be hard to find collaborators outside your own area. USDA VIVO provides a powerful Web search tool for connecting researchers, research projects and outcomes, and others with relationships to the research. The idea is to link researchers with peers and potential collaborators. VIVO makes it possible to quickly identify scientific expertise to address a variety of food- and agriculture-related issues or to rapidly mobilize a response on a scientific issue.

USDA's [Agricultural Research Service \(ARS\)](#), [Economic Research Service \(ERS\)](#), [National Institute of Food and Agriculture \(NIFA\)](#), [National Agricultural Statistics Service \(NASS\)](#), and [U.S. Forest Service \(USFS\)](#) are the first five USDA agencies to participate in VIVO. The [National Agricultural Library \(NAL\)](#), part of ARS, hosts the USDA VIVO. All information contained in USDA's VIVO is public information.





Zimmerman, Lewis Biological Scientist

Positions

► BIOLCL SCNTST, [Forest Inventory and Analysis](#)



lzimmerman@fs.fed.us



PubAg

Search

PubAg is a portal to USDA-authored and other highly relevant agricultural research. At launch, it delivers over 40,000 full-text journal articles by USDA staff and includes nearly 450,000 citations. The Library will add about 20,000 citations each month. The initial release also previews its directions for intended functionality and will serve as the foundation for further enhancements.

Using PubAg

[PubAg FAQs](#)

More Resources

[NAL Agricultural Thesaurus](#)



Symplectic Elements ...

- Assist with automatic and “clean” data pull of citations
- Allows Agency editor to review and approve profile information
- Assists with deposit of research outcomes – publications and data
- Allows connections with research projects
- Enables program managers to monitor research outputs of individuals and units

Contact – Melanie Gardner, melanie.gardner@ars.usda.gov

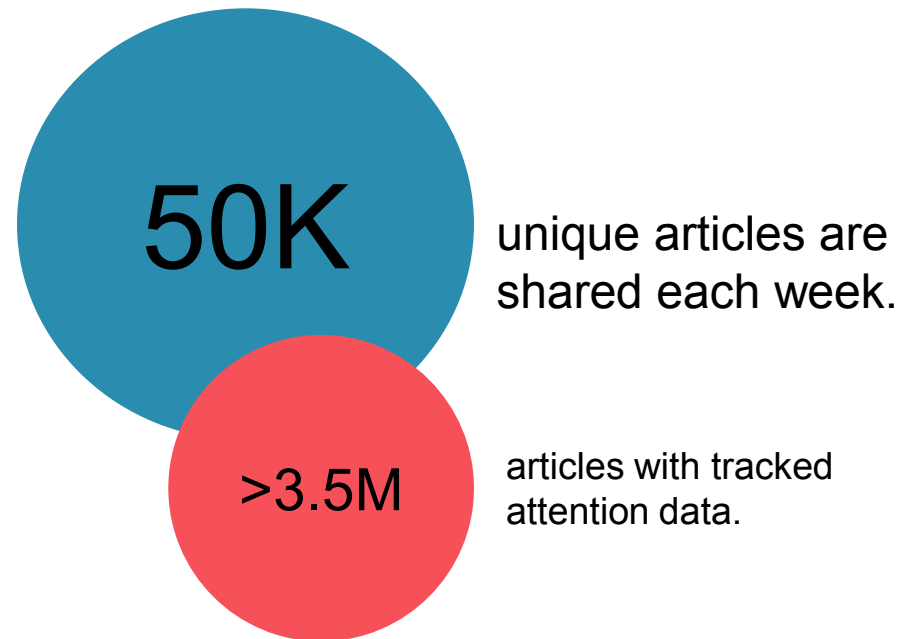
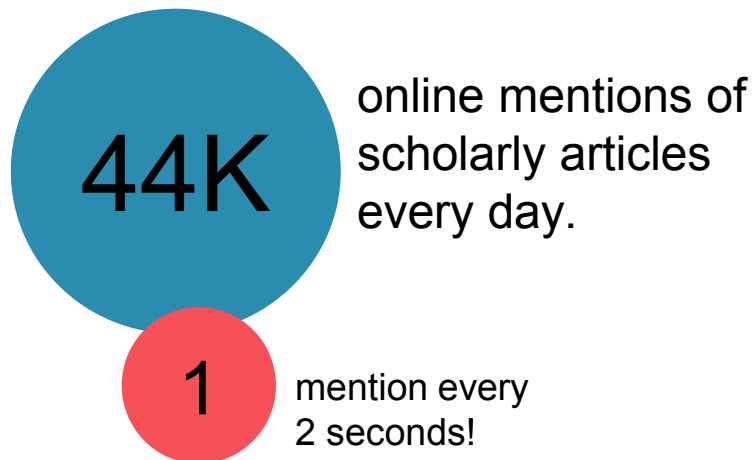




Intro to altmetrics and Altmetric.com

Sara Rouhi
Product Sales Manager
sara@altmetric.com

Democratization of information: ***Everyone***, not just researchers, ***can read research...and talk about it***



Source: Altmetric internal data, March 2015

Print based paradigm in a digital age: *Lagging indicators*

Article metrics for:

The evolution of cichlid fish egg-spots is linked with a *cis*-regulatory change

M. Emilia Santos, Ingo Braasch, Nicolas Boileau, Britta S. Meyer, Loïc Sauter, Astrid Böhne, Heinz-Georg Belting, Markus Affolter & Walter Salzburger

Nature Communications 5, Article number: 5149 (2014) | doi:10.1038/ncomms6149

Last updated: 14 October 2014 13:45:47 EDT

Total citations



Online attention



This Altmetric score means that the article is:

- in the 99 percentile (ranked 281st) of the 38,911 tracked articles of a similar age in all journals
- in the 94 percentile (ranked 14th) of the 274 tracked articles of a similar age



The cichlids egg-spots: How evolution creates new characteristics

Daily News

The evolution of new traits with novel functions has normally posed a challenge to evolutionary biology. Studying the colour mar ..

2014-10-09T10:17:50+01:00

Funding pools drying up: ***Show me the (broader) impact!***

Grant funders looking for proof of “broader impacts” often defined as “an effect, change, or benefit to the economy, society, culture, public policies, health, the environment, etc.”



Research Excellence Framework,
<http://www.ref.ac.uk/panels/assessmentcriteriaandleveldefinitions/>

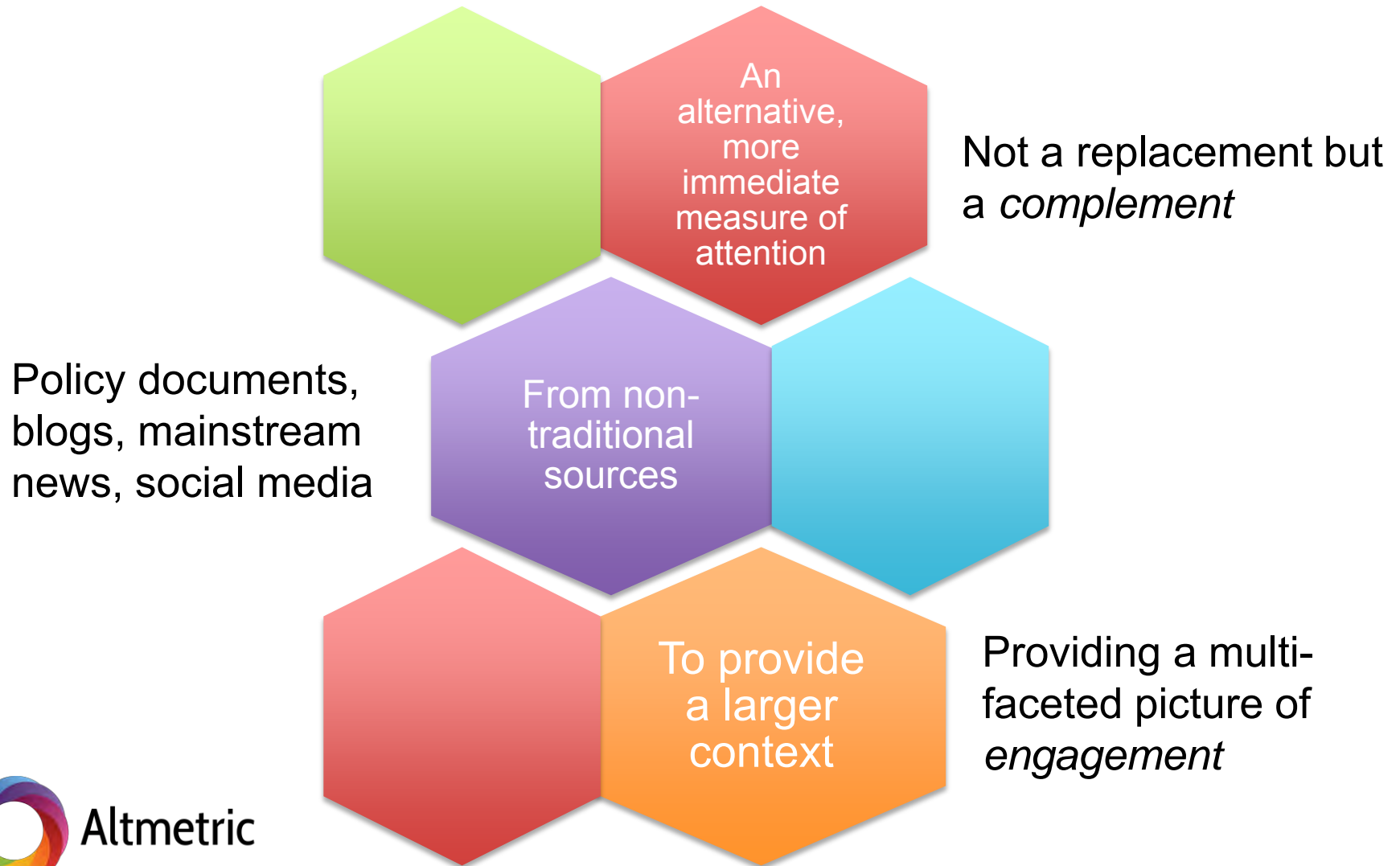


Broaden dissemination to enhance scientific and technological understanding, for example, by presenting results of research and education projects in formats useful to students, scientists and engineers, members of Congress, teachers, and the general public.

<http://www.nsf.gov/pubs/2007/nsf07046/nsf07046.jsp>



What are altmetrics?



Altmetric

Note: *Altmetric.com and altmetrics are not the same thing!*

Altmetric.com is one of several altmetrics providers.

Who are we?

Altmetric is a **data science company** that **tracks attention** to research outputs, delivering **output level metrics** via visually engaging, intuitive interfaces.

In other words, we help give ***credit where credit is due.***

Why would my institution use
altmetrics?

They answer *key administrator
needs* and questions!



Altmetric

Why? *Administrators*

- Are we in compliance with grant/govt mandates?
- Do our research outputs work toward our group/dept/instit. mission?
- Does our campus have global reach?
- Does our research influence policy, legislation, best practices?

Why? *Libraries*

- Do our collections reflect where our research gets the most attention (i.e. are we missing anything? Are we purchasing the wrong things?)
- Does our OA policy bring more attention to our work?
- How does our institutional repository bring attention to campus research?

Why? *Marketing/PR/Communications*

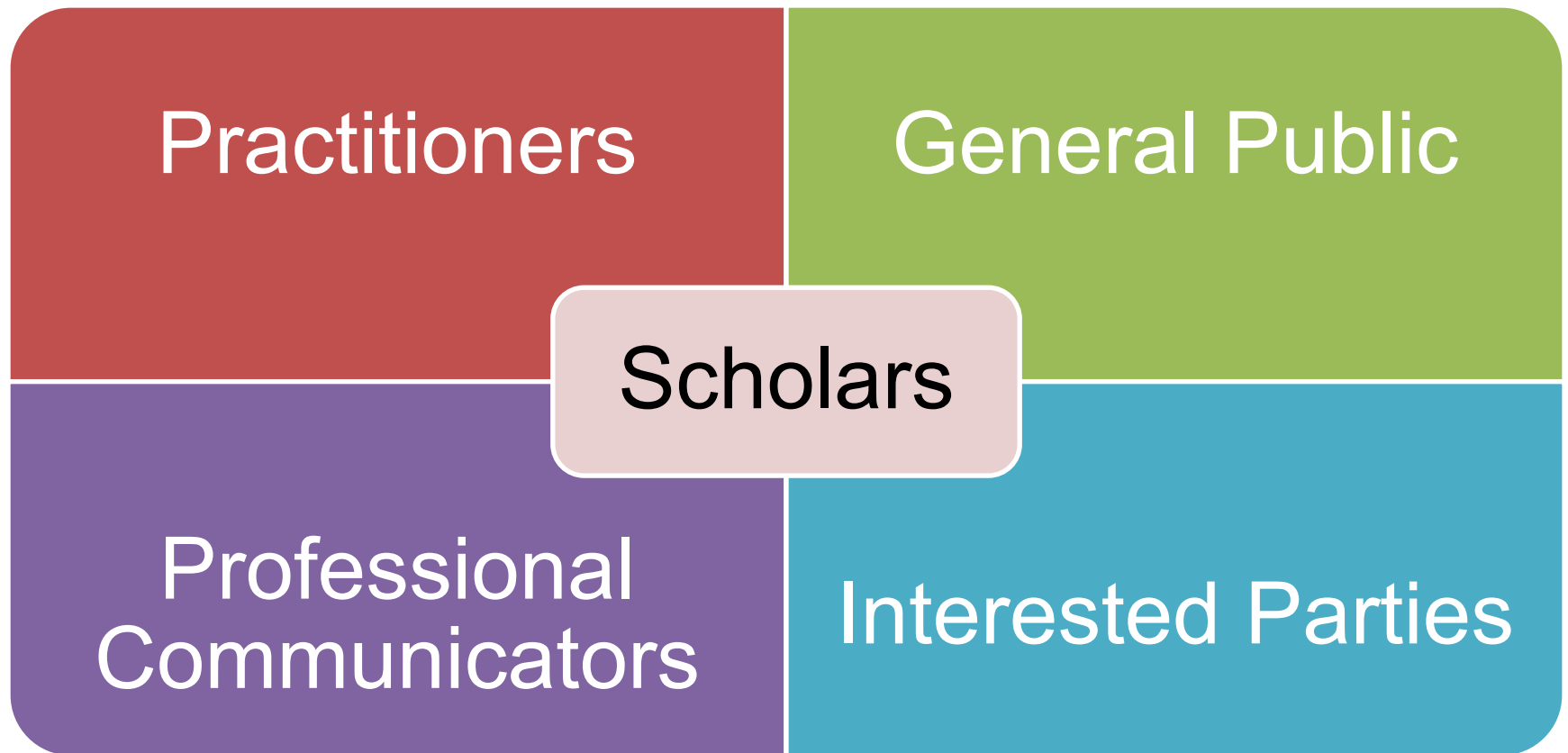
- Is anyone out there getting it wrong?
- Have we missed opportunities to get in front of a PR/communications storm?
- Can we benchmark our outreach efforts?
- Are we reaching the target markets we want?
- Are we using the right media?

Why? *Research Groups*

- Are we reaching the audiences we want to see our work?
- Is anyone misrepresenting/confused by our work?
- How do we demonstrate “broader impact” to grant funders?
- How can we reach more people with our research?
- Are we engaging unexpected communities?

Multifaceted picture of engagement:

Audiences



Altmetric

Multi-faceted picture of engagement:

Interaction

- Scholars
 - Downloads
 - Citations
 - Bookmarks/saves
- Early career
 - Social media, blogs
- General public
 - News, blogs,
 - Social media
- Practitioners
 - Policy documents
 - Field-specific blogs/Social Media
- Research communicators
 - News, blogs, social media
- Interested parties
 - Policy docs, blogs

How do we collect this data?

We need three things to track an output:

An ***output***
(journal
article,
dataset,
etc)

An
identifier
attached to
the output
(DOI,
RePEc, etc)

Mentions in
a ***source***
we track



Altmetric

Our terminology



Research Outputs

Items for which we track 'Mentions'.

e.g. Data set, journal article, etc.



Attention Sources

Places where we look for 'mentions' to Research Outputs

e.g. News, blogs, social media, etc.



Mentions

References or links to a Research Output across our Attention Sources.

e.g. Link to a paper in a policy document

Unique IDs we track...



DOIs	General
PubMed ID	Health Sciences
arXiv ID	Physics, Mathematics & Computer Sciences
ADS ID	Astrophysics data system
SSRN ID	Social Sciences
RePEC ID	Economics
Handles	General

Sources we follow...

News outlets

- Over 1,300 sites
- Manually curated list
- Text mining
- Global coverage

Post-publication peer review

Publons
Pubpeer

Reference managers

- Mendeley etc
- Demographics

Social media and blogs

Twitter, Facebook,
Google+, Sina Weibo
Public posts only
8,000+ Blogs

Other sources

Youtube
Reddit
F1000
Q&A
Wikipedia
Policy Docs

So where will you find
altmetrics?



Altmetric

Where will you see our data? **Publisher platforms**



WILEY



nature publishing group 



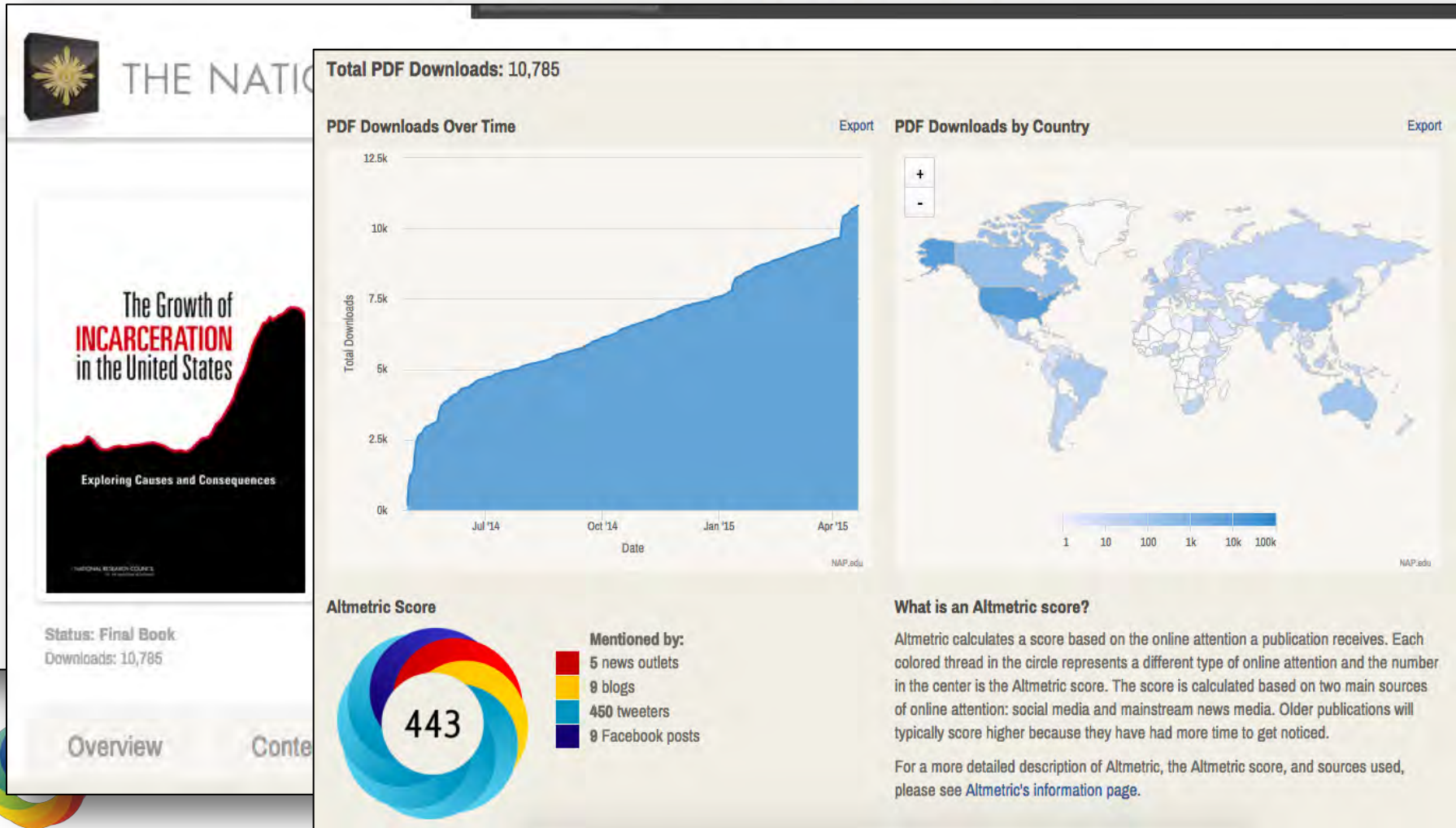
 Wolters Kluwer
Health

 SAGE

 Springer



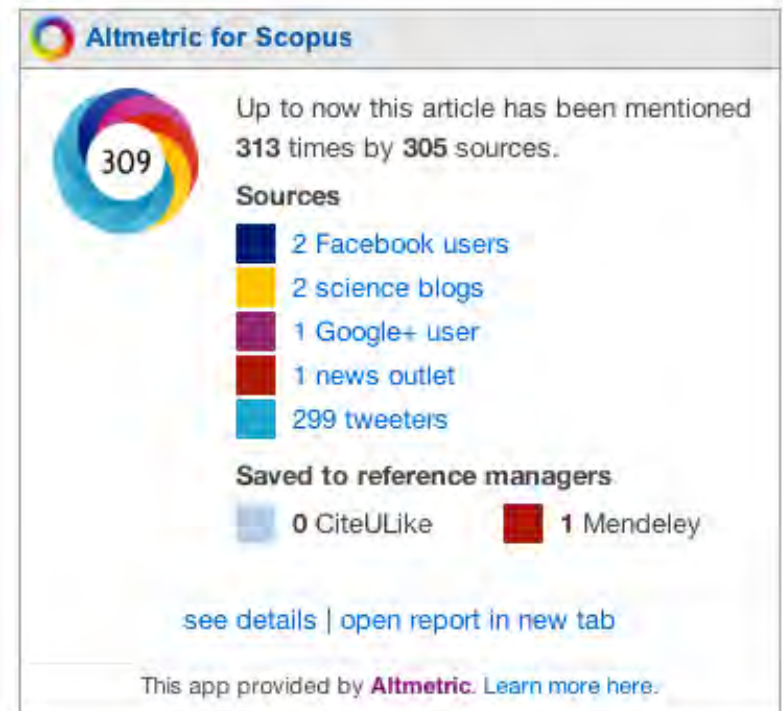
Where will you see our data? Books



Where will you see our data? **Other metrics providers**



Scopus

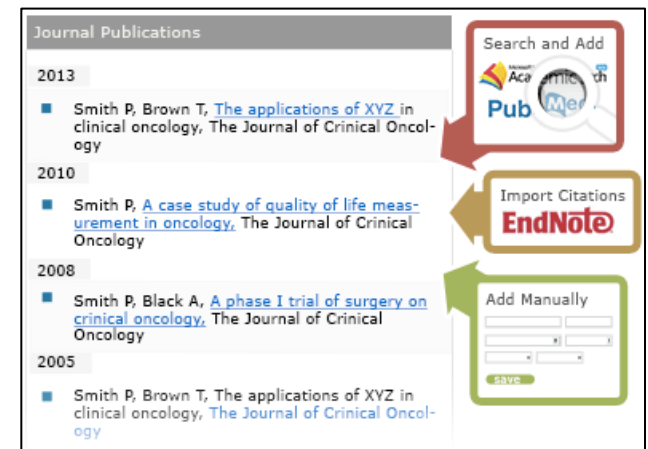
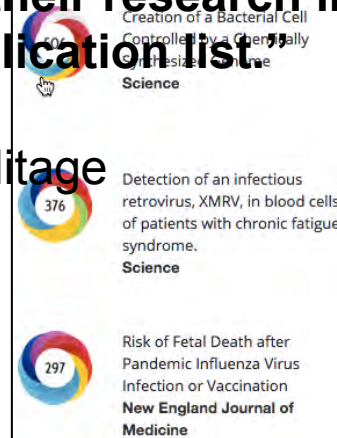


Where will you see our data? **Author Tools**



“A CV that documents alternative metrics [...] offers a **much more compelling argument to a tenure committee of their research impact than a traditional publication list.**”

- Donald Samulack, Editage



Where will you see our data? *Platforms*



Recommendation Engine
Integration for Medical research Apps



Integrating Altmetric service into
publishing platform



Altmetric Integration for JAMA and
others to monitor research impact



Integrates Altmetric data for over 1
million articles



Where will you see our data? *Institutional repositories/discovery systems*


- Institutional repository badge embeds
- Badge integration with discovery systems




Who uses our data? *Research Management Systems*

Unprecedented recent summer warmth in Arctic Canada

Summary LU users (3) History (1) Data sources (3) Full text Links (3)

 Miller GH, Lehman SJ, Refsnider KA, Southon JR, Zhong Y

GEOPHYSICAL RESEARCH LETTERS **40**(21):5745-5751 16 Nov 2013 [Author URL](#) 

Funder Acknowledgement: We thank J. Briner, R. Anderson, K. Zalzal, C. Florian, C. Anderson, and S. DeVogel for assistance in the field and laboratory; W. Colgan for advice on short-wave radiation; and the Inuit of Pond Inlet and Qikiqtarjuaq for help during fieldwork and for permission to access field sites. Field and analytical programs were supported by National Science Foundation grants ARC-0454662, ARC-0714074, and ARC-0903024. Polar Continental Shelf Project assisted with field logistics. G.H.M. designed the study. G.H.M. and K.A.R. collected the samples. S.J.L. and J.R.S. carried out the radiocarbon dating. G.H.M. and S.L.J. wrote the manuscript. All authors contributed to the interpretations and conclusions.: ARC-0454662/National Science Foundation, ARC-0714074/National Science Foundation, ARC-0903024/National Science Foundation

Reporting date: 16 Nov 2013 [Edit](#)

Journal Rankings

ISSN	SNIP	SJR	ERA2010	Impact Factor
0094-8276	1.648	3.483	A*	-
1944-8007	-	-	A*	-

Citations

Scopus



WoS



Europe
PMC



Altmetrics





Thanks!

Sara@altmetric.com

@RouhiRoo

Impact Services

RESEARCH
CENTER

The National Academies

- Impact Libguides
 - Curated searches in Scopus, Web of Science and LexisNexis, integrated NAXchange and Altmetric data
- Impact Summaries
 - Compiled data to be used for marketing and potential funding opportunities
- Motivational Metrics: Using Data to Communicate Impact Workshop
 - Designed to train staff on how to use institutional metric tools

IOM Impact LibGuide: New Directions in Child Abuse and Neglect Research (2013)

Enter Search Words

Search

- Home
- IOM
- BCYF
- BGH
- BPH
- BSP
- FNB
- HCS
- HSP

New Directions in Child Abuse and Neglect Research (2013)

THE NATIONAL ACADEMIES PRESS

HOME

READ

EMBED

BUY

SHARE

RSS

New Directions in Child Abuse and Neglect Research

Search this book

Report Downloads

5,658 total PDF downloads since September 12th, 2013.

Search by report title in [NAP NAXchange](#), to view statistics for PDF downloads (from 2003-present) and print sales (from 2000-to present) for all NAP reports. Accessible in IE9, Chrome and FireFox.

Altmetric Score

11

See more details

Tweeted by 10

On 3 Facebook pages

Mentioned in 1 Google+ posts

Cited in Scopus

See below for a sampling of articles that have cited this report. Check the **References** section of the article to see how the report is cited.

[Click here to see a complete list of peer reviewed articles that cite the report in Scopus.](#) Tip: Sort by **Cited by** - to see which of these articles have had the most impact.

Search strategy: REF("New Directions in Child Abuse and Neglect Research")

- [Interagency collaboration and identifying mental health needs in child welfare: Findings from Los Angeles County](#)
- [Culture and context in understanding child maltreatment: Contributions of intersectionality and neighborhood-based research](#)
- [Child Maltreatment and Children's Developmental Trajectories in Early to Middle Childhood](#)
- [Interpersonal difficulties mediate the relationship between child sexual abuse and depression symptoms](#)
- [Pilot study of a program delivered within the regular service system in Germany: Effect of a short-term attachment-based intervention on maternal sensitivity in mothers at risk for child abuse and neglect](#)

[Website](#) | [Feed](#)

Cited in Web of Science

See below for a sampling of articles that have cited this report. Check the **Cited References** section of the article to see how the report is cited.

[Click here to run a Cited Reference Search to see a complete list of peer reviewed articles that cite the report in Web of Science.](#)

Follow the instructions below.

1. From the main Search page, select the blue drop down arrow and click on "Cited Reference Search" to begin.

2. In the **Cited Work** field, copy & paste the following search strategy:

(NEW DIR CHILD AB NEG OR NEW DIRECTIONS IN CHILD ABUSE "AND" NEGLECT RESEARCH)

and then in the **Cited Year** field, copy and paste the following years:

(2013-2014)

Click Search.

3. The next page you will see is the Cited Reference Index. Click **Select All**, and then **Finish Search**

Legislative Impact in LexisNexis

Select the link below to view the legislative impact of the report in the Congressional Record, the Federal Register, law reviews, federal & state cases, and legislative history.

Tip: [Sign into LexisNexis with your nas.edu email first](#) if the link below does not work.

- [New Directions in Child Abuse and Neglect Research](#)

Cited in the Press

Select the LexisNexis link below to view news articles that cite this report. Includes all news, all languages, and all dates.

Tip: [Sign into LexisNexis with your nas.edu email first](#) if the link below does not work.

- [New Directions in Child Abuse and Neglect Research](#)

Tracking Impact

The information we collect about a report, workshop summary, dissemination article or other NAP related product helps us understand its national or global influence. We can package that information for our Executives, RSOs, sponsors, and the consumer to demonstrate the value in the products we deliver. Ideally it will help Academy decision makers and national leaders understand that what we do has tangible value.

Visit the [Motivational Metrics LibGuide](#) to learn more.

- [Request Impact Summary](#)
- [Report an Impact](#)

Next Steps

- More staff training
 - Connect the dots for staff
- Embed the library in the communications planning for projects
 - Library can assist in identifying how and where metrics can be collected
- Improve analysis techniques of usage/peer review metrics and altmetrics.
 - Package for staff to be used for marketing and business development.

Contact Information

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Colleen Willis

Senior Librarian, Digital Strategies and Technology

cwillis@nas.edu