



Sharing, showcasing and understanding the impact of NTROs

March 21,2023

Today's agenda

- What are Non-Traditional Research Outputs (NTROs)?
 - Why do they matter?
 - How to best publish and share NTROs
 - How to promote, track, and analyze NTROs
 - Q&A
-

Our Speakers



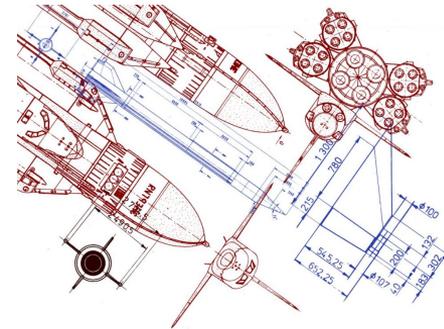
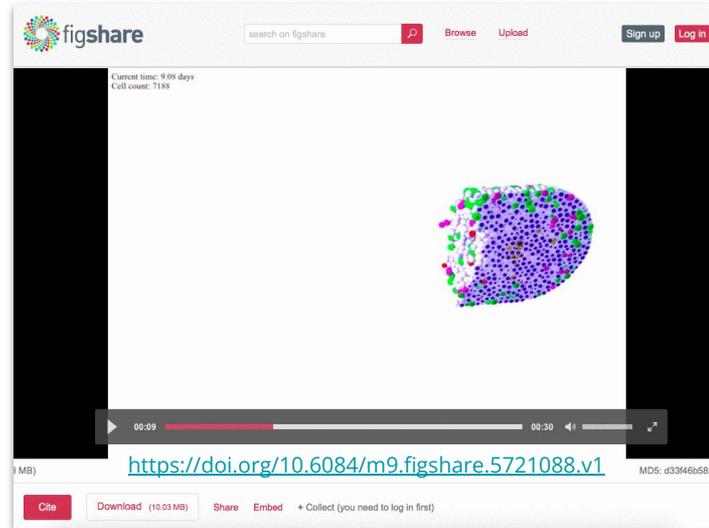
**Andrew
McKenna-Foster**
Product Specialist
Figshare



**Shannon
O'Reilly**
Product Specialist
Dimensions & Altmetric

Research outputs = anything scholarly

- Articles & pre-prints
- Books, book chapters & monographs
- Datasets & figures
- Theses & dissertations
- Media files (audio & visual)
- Software & code
- Performances & events
- Compositions
- Digital collections
- Transcriptions
- Clinical trial records
- Presentations & posters
- Educational materials
- Reports & grey lit
- Online resources
- Physical objects
- Data management plans



Traditional vs Non-traditional

Traditional Research Outputs

- “Standard” in the scholarly publishing world
- Primarily journal articles with assigned identifiers. Like a DOI
- Books with ISBNs
- Easier to promote and track

Non-Traditional Research Outputs

- Range of formats with no universal identifier standards
- May have to request from authors
- Many live on web pages
- Harder to promote or cite due to how research is stored and accessed



What are NTROs?



What are NTROs?

Anything OUTSIDE of published books, book chapters, journal articles or conference publications.

Examples from ARC:

- original creative works
- live performance of creative works
- recorded/rendered creative works
- curated or produced substantial public exhibitions and events
- research reports for an external body
- portfolio

But also:

- figures
- media
- models
- code
- supporting visualizations/files

Australian Research Council (ARC):

<https://dataportal.arc.gov.au/era/nationalreport/2018/pages/section1/non-traditional-research-outputs-ntros/>

Everyone produces NTROs

- Early-Career Researchers
 - Mid-Career Researchers
 - Established/Senior Researchers
 - Industry-connected academics
 - Creative works academics
-
- Humanities, Arts, Social Sciences
 - Science, Technology, Engineering, Math



Credit image: <https://ime.springerhealthcare.com/art-vs-science-in-a-global-pandemic/>

Sharing expectations are expanding



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

August 25, 2022

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Dr. Alondra Nelson 
Deputy Assistant to the President and Deputy Director for Science and Society
Performing the Duties of Director
Office of Science and Technology Policy (OSTP)

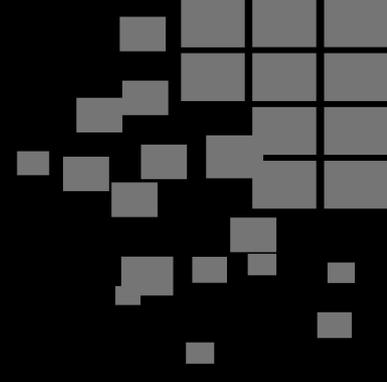
SUBJECT: Ensuring Free, Immediate, and Equitable Access to Federally Funded Research

This memorandum provides policy guidance to federal agencies with research and development expenditures on updating their public access policies. In accordance with this memorandum, OSTP recommends that federal agencies, to the extent consistent with applicable law:

1. Update their public access policies as soon as possible, and no later than December 31st, 2025, to make publications and their supporting data resulting from federally funded research publicly accessible **without an embargo on their free and public release**;
2. Establish transparent procedures that ensure scientific and research integrity is maintained in public access policies; and,
3. Coordinate with OSTP to ensure equitable delivery of federally funded research results and data.

1. Background and Policy Principles

Since February 2013, federal public access policy has been guided by the *Memorandum on Increasing Access to the Results of Federally Funded Research* (2013 Memorandum).¹ Issued by the White House Office of Science and Technology Policy (OSTP), the 2013 Memorandum



NTROs in the wild

Caveat: These examples are North American and English language biased, but NTROs are everywhere!

UNIVERSITY of WISCONSIN-MADISON



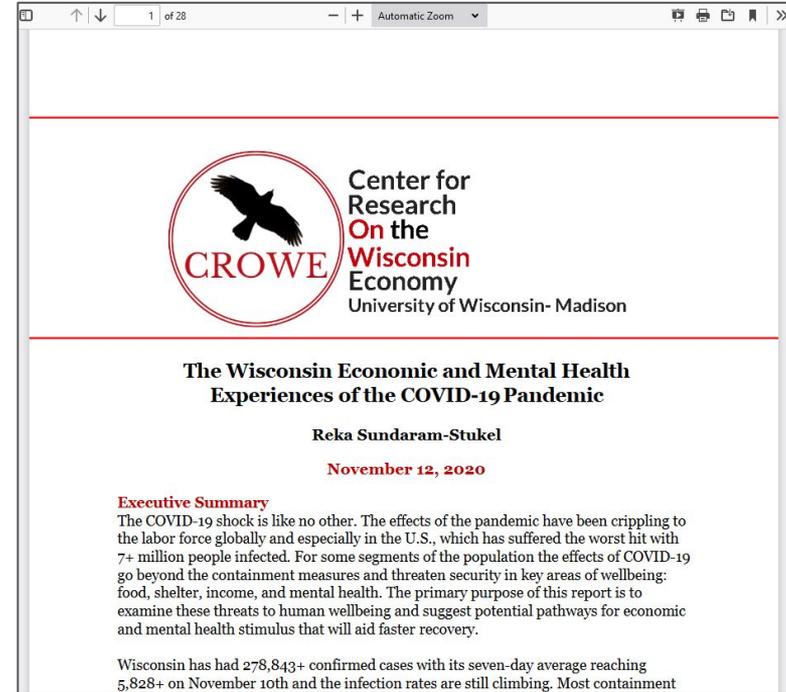
CROWE
Center for Research on the Wisconsin Economy

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Research Reports

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- + 2022
- + 2021
- COVID-19
 - [11/2020: The Wisconsin Economic and Mental Health Experiences of the COVID-19 Pandemic](#)
 - [4/2020: Reopening Wisconsin: Regional Health and Economic Factors](#)
- + 2020
- + 2019



1 of 28 Automatic Zoom



Center for
Research
On the
Wisconsin
Economy
University of Wisconsin- Madison

The Wisconsin Economic and Mental Health Experiences of the COVID-19 Pandemic

Reka Sundaram-Stukel
November 12, 2020

Executive Summary
The COVID-19 shock is like no other. The effects of the pandemic have been crippling to the labor force globally and especially in the U.S., which has suffered the worst hit with 7+ million people infected. For some segments of the population the effects of COVID-19 go beyond the containment measures and threaten security in key areas of wellbeing: food, shelter, income, and mental health. The primary purpose of this report is to examine these threats to human wellbeing and suggest potential pathways for economic and mental health stimulus that will aid faster recovery.

Wisconsin has had 278,843+ confirmed cases with its seven-day average reaching 5,828+ on November 10th and the infection rates are still climbing. Most containment

<https://crowe.wisc.edu/research-overview/>



UBC THE UNIVERSITY OF BRITISH COLUMBIA
Okanagan Campus

UBC Okanagan News

Home / 2022 / February / 28 / Art in the Streets

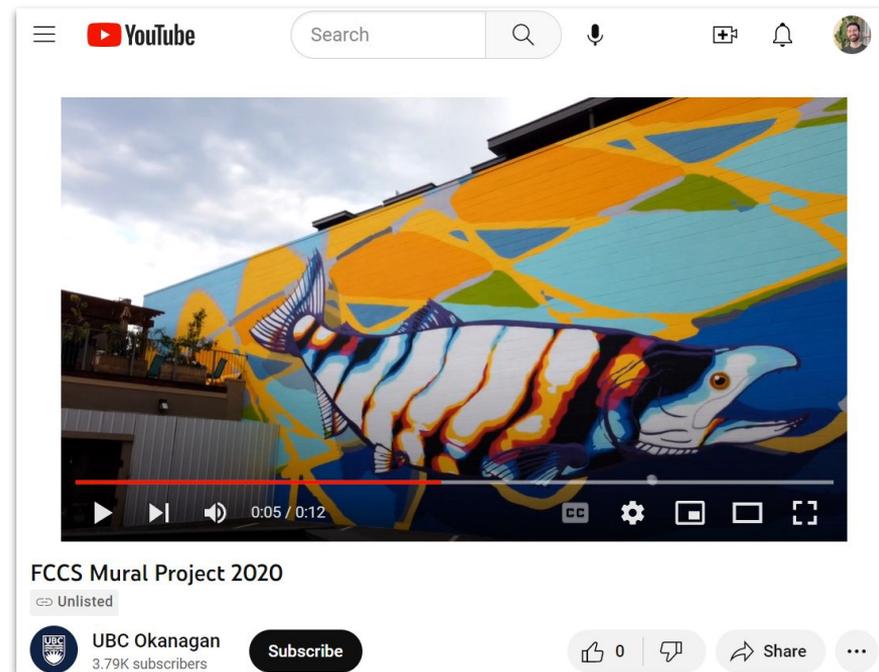
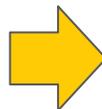
Arts & Humanities, Campus Life, Research, Teaching & Learning

ART IN THE STREETS

February 28, 2022

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FCCS Mural Project 2020

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3.79K subscribers

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<https://news.ok.ubc.ca/2022/02/28/art-in-the-streets/>

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THE END OF THE OFFICE: LIVE/WORK HOUSING BY JULIET CHUI



**2021-2022 Design
Excellence Award
Winner**

<https://soa.utexas.edu/architecture/end-office>

models that allow published works (typically scholarly journal articles and conference proceedings) to be made freely available online. Often the open lock symbol indicates that a work is published under an OA model.

Green, Gold, and Platinum models

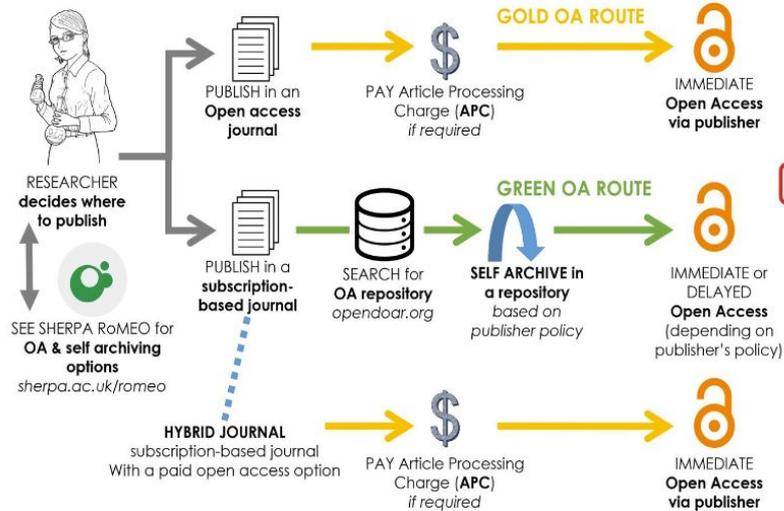
Green OA is a model that allows an author to deposit a **pre- or post-print** in an institutional repository (IR). IR content is indexed by search engines like [Google Scholar](#) and discoverable to a worldwide audience.

Gold OA is a model from publisher's that requires the author(s)

Green and Gold OA

Green and Gold Open Access Publishing

Open Access Publishing



Darren Chase | darren.chase@oneonta.edu

Green Open Access at SUNY Oneonta

<https://libguides.oneonta.edu/openaccess/oneonta>

Cumberland UNIVERSITY

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Spring 2020 FOCUS Student Art Show

June 5, 2020



Due to COVID-19 restrictions, our Spring 2020 FOCUS Student Art Show went virtual. You can now virtually walk through a gallery of our students' art work from the 2019-2020 school year through this fantastic presentation created by the SHEA School!

Click the button below to view the gallery and click "Present".

[Click Here to View The Gallery](#)

News / Blog / [Spring 2020 FOCUS Student Art Show](#)



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1



2



3



4



Welcome to the



SCHOOL OF HUMANITIES, EDUCATION & THE ARTS

Cumberland UNIVERSITY

Student Art Show

Follow the links on the bottom to move between rooms. Click on the artwork to see a larger image. Due to the Corona Virus we were unable to have our annual FOCUS Student Art Show. In lieu of the show, we have a sampling of student work from the 2019-2020 academic year. These were selected to give an overview of studio projects at Cumberland University. These images are the sole property of the artist and should not be copied or duplicated in any way.

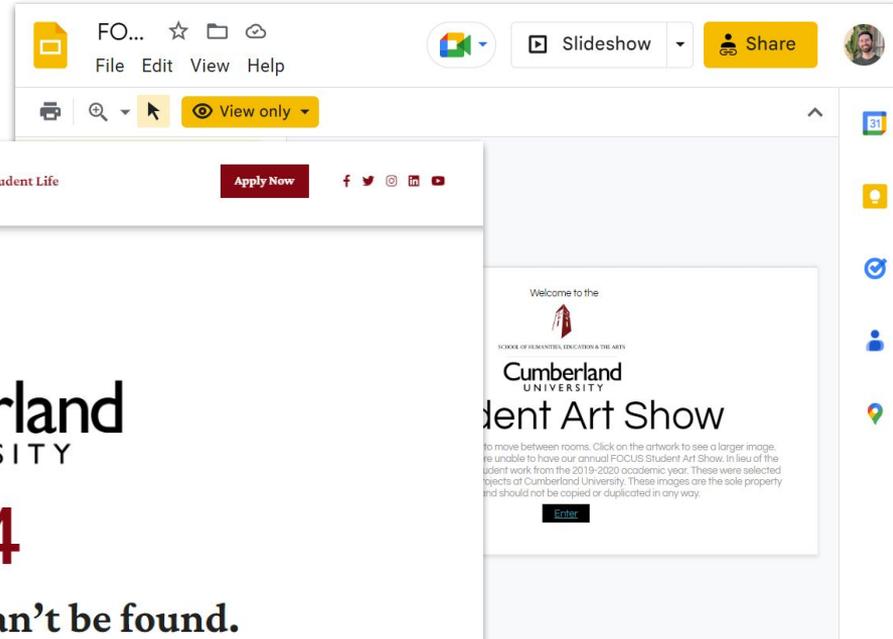
[Enter](#)

<https://www.cumberland.edu/spring-2020-focus-student-art-show/>

Why not just publish to a website?

- Uncertain persistence
- Low discoverability
- Difficult to track reuse

Why not just publish to a website?



https

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Why not just publish to a website?

models that allow published works (typically scholarly journal articles and conference proceedings) to be made freely available online. Often the open lock symbol  indicates that a work is published under an OA model.

Green, Gold, and Platinum models

Green OA is a model that allows an author to deposit a **pre- or post-print** in an institutional repository (IR). IR content is indexed by search engines like [Google Scholar](https://scholar.google.com/) and discoverable to a worldwide audience.

Gold OA is a model from publisher's that requires the author(s)



Citation?

Chase, Darren. Date?? Open Access Publishing. Accessed March, 9, 2023 at <https://libguides.oneonta.edu/openaccess/oneonta>

License?

How can Darren know if this is reused or referenced?

Store and share NTROs

Where they can be discovered, cited, and tracked

Alternative Metrics and Bibliometrics Services

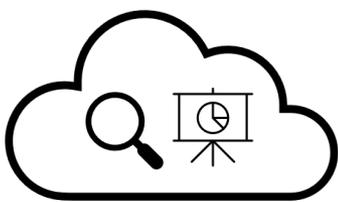
Repository



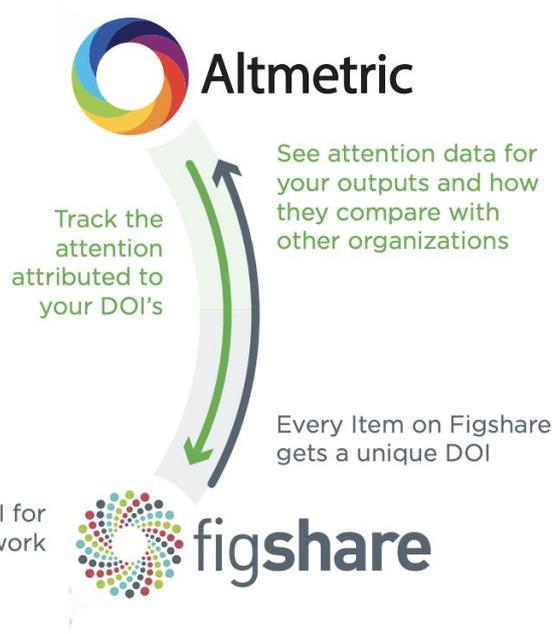
Store files

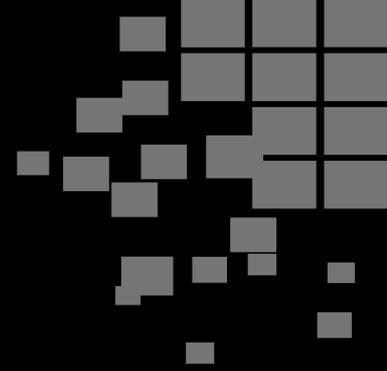


Add metadata



Discoverable and reusable





Figshare Repository



Figshare Overview

Figshare is a repository platform for storing, managing, and publishing all types of research outputs in one place.

Enables you to:

- Add a persistent identifier, usually a DOI
- Describe outputs with standard metadata
- Add a license to guide reuse - open as possible!
- Adhere to sharing policies/mandates
- Track reuse metrics

Enables others to:

- Find your NTROs in the vastness of the internet
 - Understand the context around your work through metadata
 - Visualize the NTROs in the browser
 - Mention, reuse, and cite your work
-

Who uses Figshare?



Researchers
Academics
Scholars



Academic Institutions



Government/Funders/Publishers



Other Research Organizations

Researcher Friendly Interface

to upload, drag file(s) on the page or [browse](#)

Metadata record only [Link file](#)

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 **Robin Champieux**
0000-0001-7023-9832
Library and Information studies not elsewhere classified
Portland, Oregon, USA
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 [Matthew Brush](#)
 [Julie McMurry](#)
 [Marjane White](#)
Data and Research Engagement Librarian - Portland, OR

Publications

- Lions, Tigers, and Gummi Bears: Springing Towards Effective Engagement with Research Data Management DOI: 10.6083/M4JQC0273
- Framing a Repository Solution for Biomaging Datasets: Preserving Utility, Not Bits DOI: 10.6084/m9.figshare.1224346
- ARCS: Advancing Research Communication & Scholarship DOI: http://dx.doi.org/10.6084/m9.figshare.840576
- Data Management Open House DOI: 10.6084/m9.figshare.840573
- Navigating Open Access DOI: http://dx.doi.org/10.6084/m9.figshare.826029
- Data Management Open House DOI: http://dx.doi.org/10.6084/m9.figshare.840573
- By Popular Demand: Building a Consortial Demand-Driven Program DOI: 10.5703/1288284314974

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2012 Santorini LiDAR data
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Version 2 Dataset posted on 2014-08-14, 08:08 authored by [David Pyle](#), [Michelle Parks](#), [Tamsin Mather](#), [Paraskevi Homokou](#)

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7381 views | 2994 downloads | 2 citations

CATEGORIES
Human geography not elsewhere classified
Geology not elsewhere classified

Dataset description
Datasets from a LiDAR survey of the Greek volcanic islands of Nea Kameni and Palaia Kameni, Santorini, Greece. Data were collected during a NERC ARSF flight campaign EU-12-13-17.

See the open access paper in Geoforum by [Evi Homokou et al.](#), (2014) for details; <http://dx.doi.org/10.1016/j.geof.2014.02.002>

Switch View | 28 files

Grid of 15 dataset thumbnails with titles like "LDR-EU12_12-2012-13..._bit (111.99 MB)", "EU12_12-2012_137-dem.jpg (1.51 MB)", "LDR-EU12_12-2012-1..._bit (207.01 MB)", "EU12_12-2012_137-Sa..._pdf (75.54 MB)", "LDR-EU12_12-2012-1..._bit (137.26 MB)", "LDR-EU12_12-2012-13..._bit (64.59 MB)", "LDR-EU12_12-2012-13..._bit (71.01 MB)", "LDR-EU12_12-2012-1..._bit (119.23 MB)", "LDR-EU12_12-2012-1..._bit (165.15 MB)", "LDR-EU12_12-2012-1..._bit (209.89 MB)", "LDR-EU12_12-2012-13..._bit (208.9 MB)", "LDR-EU12_12-2012-1..._bit (207.86 MB)", "LDR-EU12_12-2012-13..._bit (188.6 MB)", "LDR-EU12_12-2012-13..._bit (163.6 MB)", "LDR-EU12_12-2012-1..._bit (143.14 MB)".

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<input type="checkbox"/> Computer Science	0	0	0 kB <input type="text" value="5 MB"/>	
<input type="checkbox"/> Drama	0	0	0 kB <input type="text" value="0 kB"/>	
<input type="checkbox"/> English	0	0	0 kB <input type="text" value="100 MB"/>	
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<input type="checkbox"/> Physics	0	0	0 kB <input type="text" value="0 kB"/>	
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<input type="checkbox"/> Robotics	0	0	0 kB <input type="text" value="0 kB"/>	

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Faber College statistics

in-depth statistics of Faber College data on figshare

This year

Stats map



Count

- 1 - 5.6
- 5.6 - 16.2
- 16.2 - 23.8
- 23.8 - 31.4
- 31.4 - 39

Monthly stats chart



Count

Stats categories pie chart



- Agricultural Hydrolog...
- Stellar Astronomy
- Biological Sciences n...
- Astronomical and Sp...
- Animal Breeding

All Research in One, Discoverable Place



Robin Champieux's public data
15 posts

Request for Community partnership in data ...
Journal contribution posted on 2017-05-04
Melissa Haendel

BD2KSite
Software posted on 2017-04-14
Bjorn Pederson

ACRL 2017: "Using altmetrics to transform collection development decisions ..."
Presentation posted on 2017-03-20
Stacy Konkiet

The Ontology Development Group: A Visual Timeline
Poster posted on 2016-10-31
Nicole Vasilevsky

Enhancing sciENcv through semantic research profile ...
Poster posted on 2016-09-06
Marijane White

Are we ready to define the scholarly commons?
Presentation posted on 2015-04-21
Maryann Martone

Charleston Conference 2015 Presentations
Dataset posted on 2015-11-11
Robin Champieux

Graphing the Literature to Understand Our ...
Presentation posted on 2015-11-11
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Report posted on 2021-04-01
Robert G. Harland

Shanghai Architectural Heritage / Graphic Redesign ...
Media posted on 2020-08-07
Huiqi Yang

Introduction to Building Stock Optimization and ...
Media posted on 2021-06-10
Jonathan Wright

socialMediatron5000
Software posted on 2017-01-09
Jason Cooper

On Empathy for the Other
Media posted on 2021-04-13
Linje Manyozo

Paulo Freire and the principle of love in communication ...
Media posted on 2021-04-13
Karin Gwinn Wilkins

Discoverable and Citable Records

The image shows a search result for a research record on the Loughborough University digital platform. The record is titled "Repositioning Graphic Heritage" and is an online version of a booklet. The record is displayed in a search results grid, with a larger view of the record details shown on the left. The record is authored by Robert G. Harland and Johnny Xu, and was posted on 2021-04-01. The record is available for citation and download. The record is also available in Chinese. The record is part of a project co-ordinated by the Arts and Humanities Research Council in co-operation with UNESCO Creative City (Shanghai) Promotion Office. The record is available for citation and download. The record is also available in Chinese. The record is part of a project co-ordinated by the Arts and Humanities Research Council in co-operation with UNESCO Creative City (Shanghai) Promotion Office.

Repositioning Graphic Heritage
A Newton Fund project co-ordinated by the Arts and Humanities Research Council in co-operation with UNESCO Creative City (Shanghai) Promotion Office

图形遗产再定位

Repositioning Graphic Heritage booklet (online version)

Report posted on 2021-04-01

Robert G. Harland

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1,203 results found

sort by: Altmetric Attention Score

Shanghai Architectural Heritage / Graphic Redesign ...

Introduction to Building Stock Optimization and ...

socialMediatron5000

On Empathy for the Other

Paulo Freire and the principle of love in communication ...

A close-up photograph of a dandelion seed head with a large, clear water droplet on its surface. The background is a dark, teal-green color with bokeh light effects. The text "Some NTROs in Figshare repositories" is overlaid in white, bold, sans-serif font across the center of the image.

Some NTROs in Figshare repositories

Brecht Beats Shakespeare!

A Card-Game Introduction to

Brecht_Beats_Shakespeare_DH2018.pdf (11.38 MB)

Brecht Beats Shakespeare! – A Card-Game Introduction to the Network Analysis of European Drama (poster contribution to DH2018)

[Cite](#) [Download \(11.38 MB\)](#) [Share](#) [Embed](#) [+ Collect](#)

Poster posted on 2018-06-24, 04:18 authored by [Frank Fischer](#), Anika Schultz, Christopher Kittel, Elisa Beshero-Bondar, Steffen Martus, Peer Tricke, Jana Wolf, Ingo Börner, Angelika Hechtl, Daniil Skorinkin, Tatiana Orlova, Carsten Milling, Christine Ivanovic

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5216 views	863 downloads	0 citations
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This is our DH2018 poster contribution: "Brecht Beats Shakespeare! – A Card-Game

62

Video: <https://doi.org/10.26180/5f850f0458132>



MD5: 8494d1b60b53a954b8be231cf3870dab | 

 Switch View |    1/2 DARK WATER_1080.mp4 (2.07 GB)  

Music for the film Dark Water

Cite

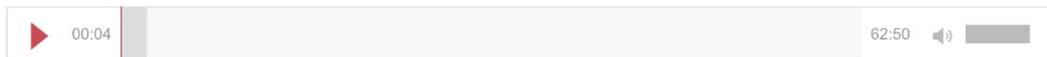
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Audio: <https://doi.org/10.25375/uct.14140724.v1>



MD5: c62eb03b729e393b27fb622a277ed612 | 

Full performance audio - Tia maji.wav (1.01 GB)  



Tia Maji – Full Performance Audio

Cite

Download (1.01 GB)

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Composition: <https://doi.org/10.17866/rd.salford.10304951.v1>

The image displays a musical score for three instruments: Maracas (Mar.), Violin I (Vln. I), and Violin II (Vln. II). The score is presented in two systems. The Maracas part uses a treble clef and features a rhythmic pattern of eighth and sixteenth notes, with dynamic markings of *pp* (pianissimo) and hairpins. The Violin I part uses a treble clef and includes performance instructions such as *pizz* (pizzicato) and *arco ricochet*. The Violin II part uses a treble clef and also includes *pizz* and *arco ricochet* markings. At the bottom of the score viewer, there is a file name 'The Rivet's Tale .pdf (870.29 kB)', a page indicator '9/60', and a set of navigation icons. Below the score, the title 'The Rivet's Tale (score)' is displayed, followed by a row of interactive buttons: 'Cite', 'Download (870.29 kB)', 'Share', 'Embed', and '+ Collect'.

The Rivet's Tale .pdf (870.29 kB) ⓘ ⏴

9/60 ⏶ ⏷ ⏸ 🔍 ⏴ ⏵

The Rivet's Tale (score)

Cite Download (870.29 kB) Share Embed + Collect

Exhibition: <https://hdl.handle.net/2134/12249701.v1>



*Advice Bar (Expanded
for the Times)*, 2017
Steel, concrete, newspapers;

*Part Edit, Track A (Repurposed
for Waverley)*; 1994
Speaker, soundtrack of spoken

VO2 Max, 2011
Pen, spray paint on paper;
45 x 65.5 x 3.5cm

JD_INSERT_FTP.pdf (2.33 MB)  

4/4      

Right here among them [Exhibition leaflet]

Cite

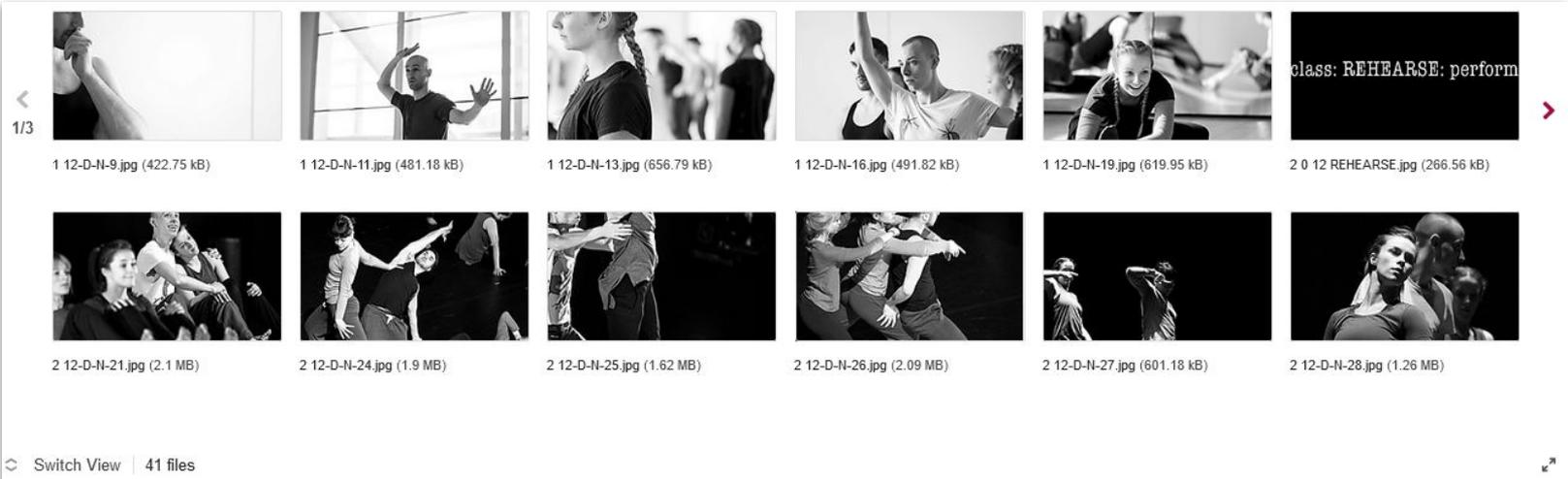
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Images: <https://doi.org/10.25416/edgehill.11902632.v3>



PHOTOGRAPHY 12 Degrees North: CLASS

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Version 3 ▼ Performance posted on 2021-02-10, 05:40 authored by [Helen Newall](#)

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812 views	2754 downloads	0 citations
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Practice-Research: dance performance documentation by Helen Newall, as part of the 12+ North project: Visual Literacy and the Emerging Artist (2014+) with Karen Jaundrill-Scott. The 12+ North Company initiative served to support the cultural economy in the Northern Powerhouse by incubating early career practitioners whose contribution would

Media files: <https://doi.org/10.6084/m9.figshare.1453169.v7>

1/7



PB_F.mov (10.45 MB) RV_R_F.mov (2.84 MB) RV_R_S.mov (3.54 MB) PB_S.mov (10.45 MB) PC_S.mov (10.73 MB) PC_F.mov (10.46 MB) H-Dance_Database.docx (20.73 kB)

BA_R_WA.mov (1.58 MB) AS_L_NA.mov (1011.35 kB) AS_L_WA.mov (1.4 MB) BA_R_NA.mov (1.49 MB) AS_L_WA.mov (1.4 MB) BA_R_WA.mov (1.58 MB) AR.mov (6.88 MB)

Switch View | 146 files

A visual dataset of dance steps for behavioral experimentation

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Version 7 Dataset posted on 2015-06-23, 23:56 authored by [Argiro Vatakis, Helena Sgouramani](#)

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4005 views **3040** downloads **2** citations 

A database of short video clips of dance steps with a number of manipulations (e.g., dance step with or without arm movements, slow or fast executions of the same step).





The Swiss Cheese Respiratory Virus Defence

[Cite](#) [Download all \(34.37 MB\)](#) [Share](#) [Embed](#) [+ Collect](#)

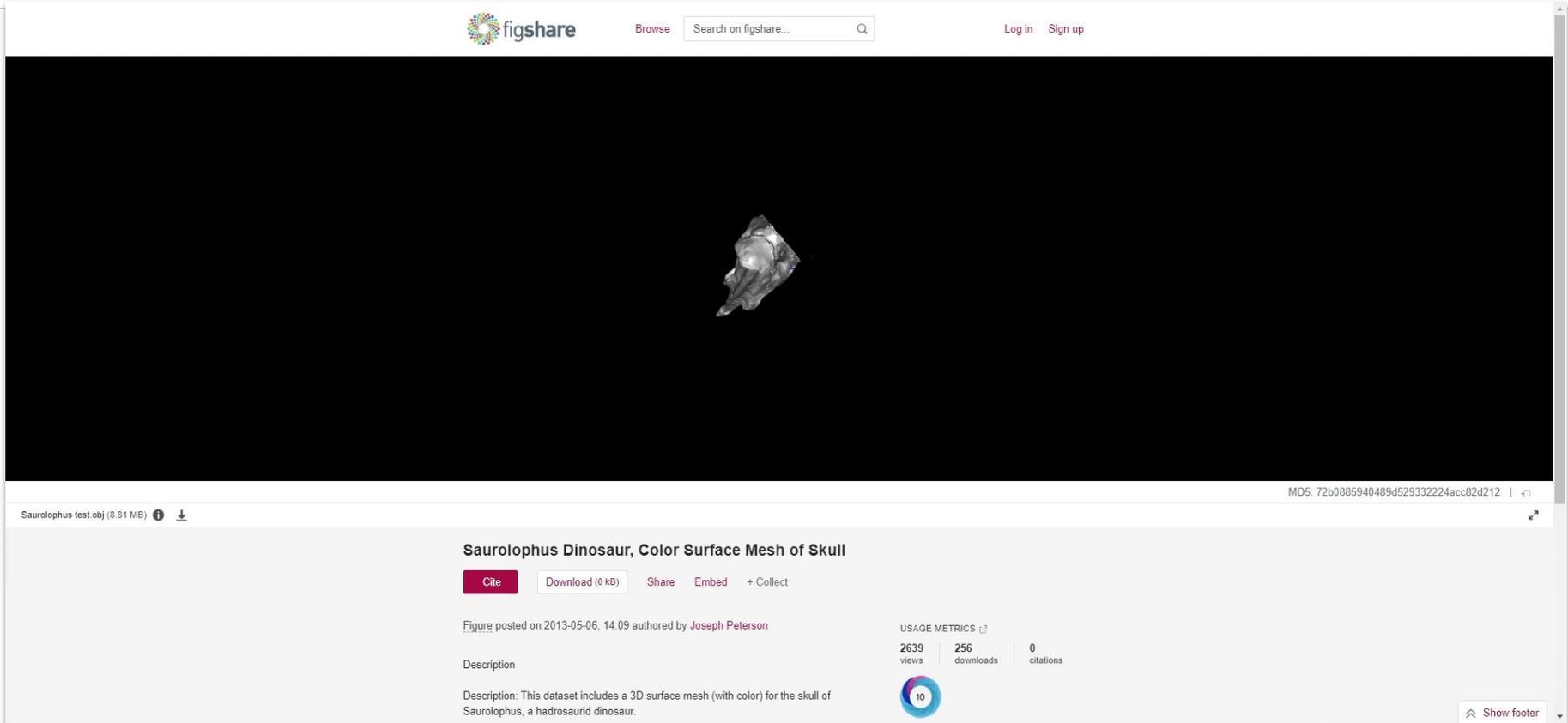
Version 26 [v](#) Figure posted on 2022-10-17, 14:35 authored by [Ian M. Mackay](#)

An infographic I made to help clarify that in order to best limit personal risk and community risk from being infected by, or passing on, SARS-CoV-2 and any other respiratory viruses like influenza, RSV and rhinoviruses. We need to think of using a range of risk reduction measures. Each has its own failings and these can be affected by circumstances so layering them up helps avoid any single measure's (layer) problems (holes).

USAGE METRICS [v](#)
97458 views | 17407 downloads | 1 citations [v](#)



CATEGORIES



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Saurolophus test.obj (8.81 MB)  

MD5: 72b0885940489d52933224acc82d212 | 

Saurolophus Dinosaur, Color Surface Mesh of Skull

[Cite](#) [Download \(8 kB\)](#) [Share](#) [Embed](#) [+ Collect](#)

Figure posted on 2013-05-06, 14:09 authored by [Joseph Peterson](#)

USAGE METRICS 

2639 views	256 downloads	0 citations
---------------	------------------	----------------

Description

Description: This dataset includes a 3D surface mesh (with color) for the skull of Saurolophus, a hadrosaurid dinosaur.



[Show footer](#)

So you've published an NTRO in Figshare

How can you promote and track it?

Figshare items receive metrics

Figshare provides traditional metrics like views, downloads, and citations. Altmetric provides Alternative metrics.

The State of Open Data 2022
The longest-running longitudinal survey and analysis on open data
Foreword by Mark Hahnel, Founder & CEO of Figshare

The-State-of-Open-Data-2022-Report_...pdf (6.51 MB) 1/34

The State of Open Data 2022
Cite Download (6.51 MB) Share Embed + Collect

Version 5 Report posted on 2022-10-18, 04:46 authored by Digital Science, Gregory Goodey, Mark Hahnel, Yuanchun Zhou, Lulu Jiang, Ishwar Chandramouliswaran, Amy Hafez, Taunton Paine, Susan Gregurick, Samuel Simango, Juan Miguel Palma Peña, Holly Murray, Matt Cannon, Rebecca Grant, Kate McKellar, Laura Day

USAGE METRICS [↗](#)
21686 views | 4477 downloads | 1 citations [+](#)

We're proud to release our seventh State of Open Data report.

Based on a global survey, the report is now in its seventh year and provides insights into researchers' attitudes towards and experiences of open data. With more than 5,400 respondents, the 2022 survey is the largest since the COVID-19 pandemic began.

DIGITAL
science

CATEGORIES
Library and information studies.net

USAGE METRICS [↗](#)

21686
views

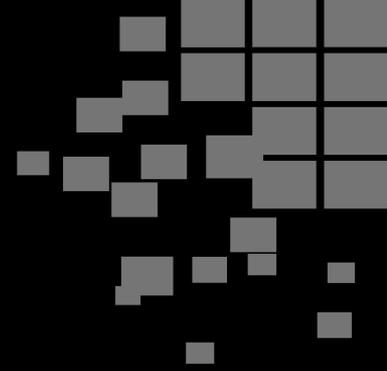
4477
downloads

1
citations [↗](#)

281

Report:

<https://doi.org/10.6084/m9.figshare.21276984>



Altmetric

“alternative metrics”

How?

We deliver intuitive tools and expert services that enable users to track and report on the online attention to research, as soon as it's published.

What?

We help everyone gauge the influence of published research in ways that are meaningful to them.



Why?

We broaden and deepen understanding of the value of research and its influence on people and communities.

Research's stakeholders

Most stakeholders that research is meant to reach do not publish or do research. They talk about research.

Altmetric uncovers who they are...



General Public



Government &
Policy Makers



Investigators



Research
communicators
/ watchdogs



Practitioners



Advocacy/
Non-profits



Tech Transfer



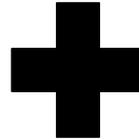
Interested
parties

Why altmetrics?

ACADEMIC ATTENTION

Journal Impact Factor
Citation counts
H-index
Number of Publications

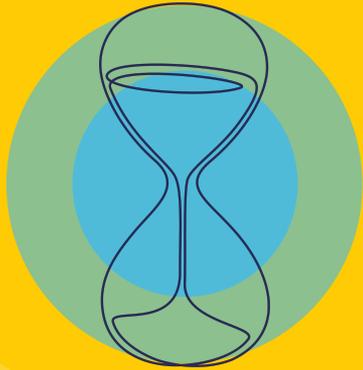
Traditional
Bibliometrics



BROADER ATTENTION

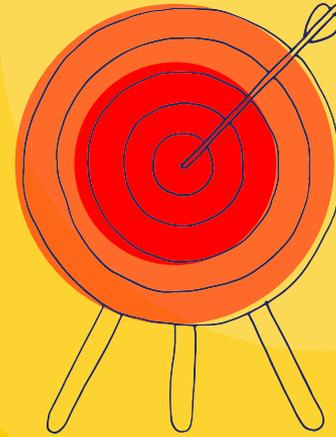
Mentions in news reports
References in policy
Mentions in social media
Wikipedia citations
Reference manager
readers...etc

Alternative Metrics
"altmetrics"



Citations

Often slow to accrue
(2-5 years)



ALTMETRICS

Immediate

Alternative Metrics



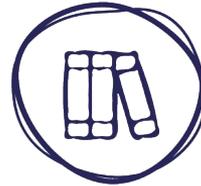
Data that explain both the volume and nature of attention research has received online



Provides evidence of engagement with diverse audiences and potential impact

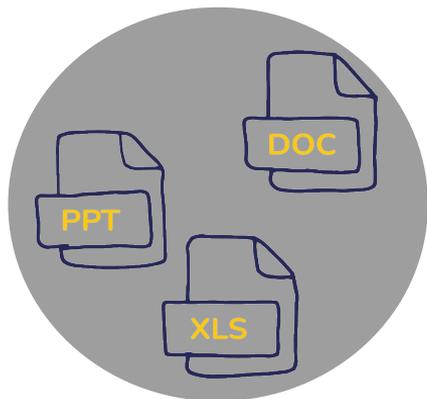


Can measure how many people have shared or engaged with a scholarly output online and where



Complimentary to bibliometrics (citation-based)

For research to be tracked we need...



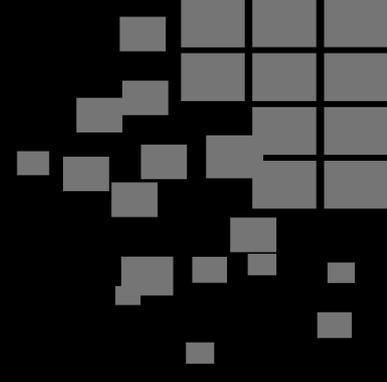
A research output
with a



Persistent identifier
that is



Mentioned in a
source we track



How to publish, promote, track, and analyze NTROs

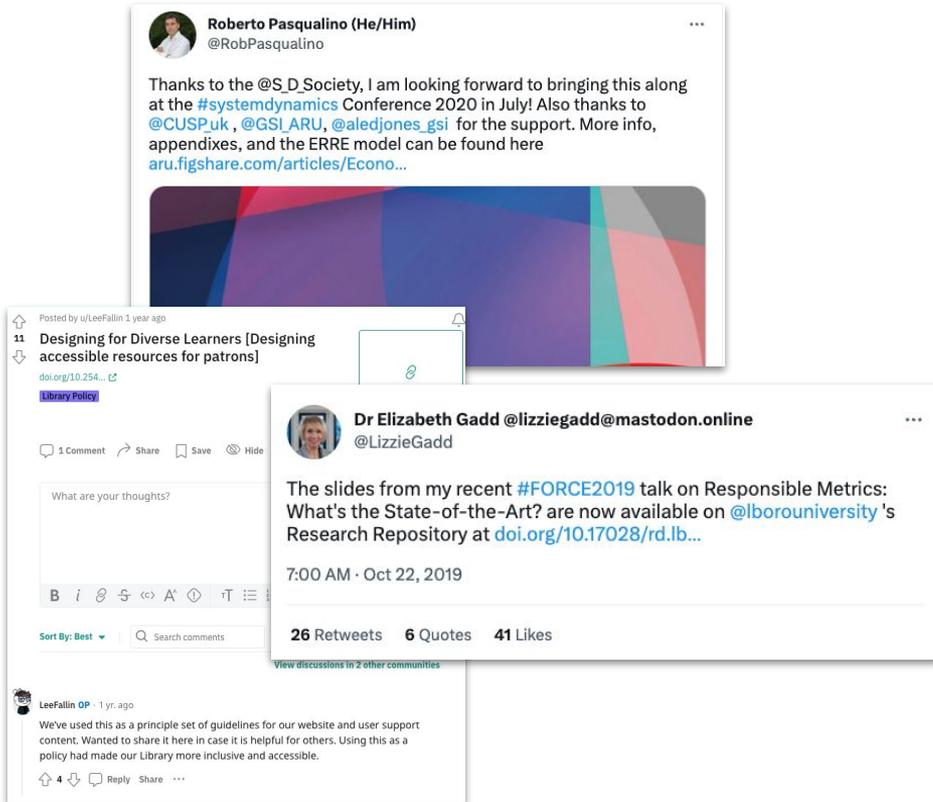
Benefits of showcasing your outputs

Publishing an NTRO in a Figshare repository provides:

- A persistent home
- A Digital Object Identifier (DOI)
- Greater awareness, discoverability, citability, and reuse
- And a greater possible contribution to knowledge advancement



Benefits of sharing your research

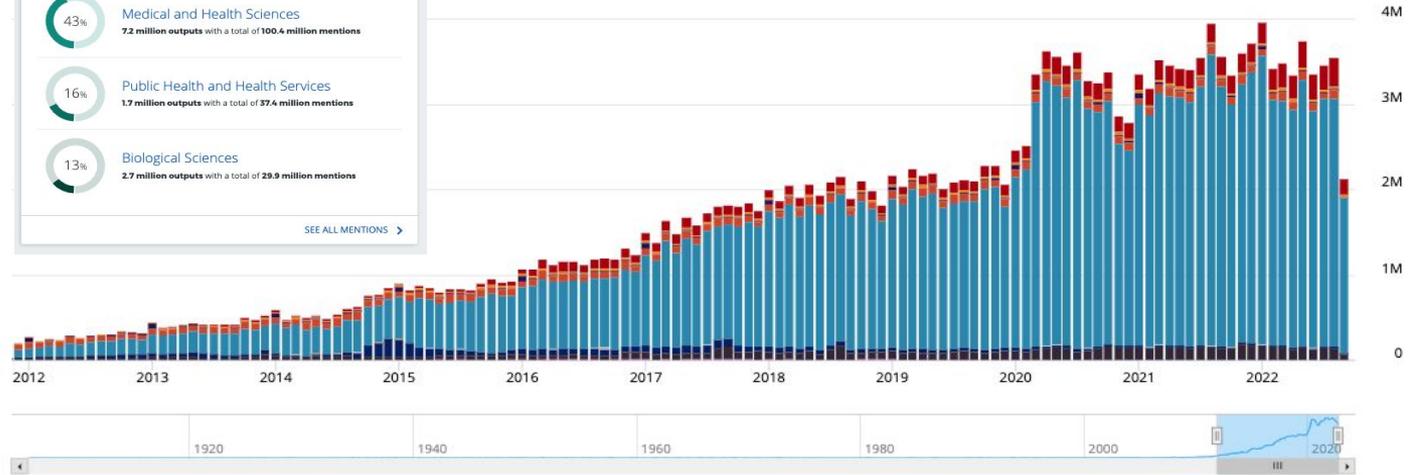
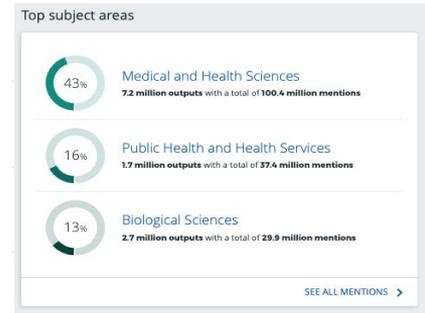


- Understand your online influence and stakeholders (keep an eye on quality over quantity)
- Find out who's saying what about your research or similar research and create a dialogue
- Build relationships and grow your network, maybe you'll even find a collaborator
- Key an eye on how your research is being used and received
- Maximize the influence of your research within and beyond your field
- Make your research discoverable and accessible to everyone
- Stay updated on the latest in your field while contributing to the conversation

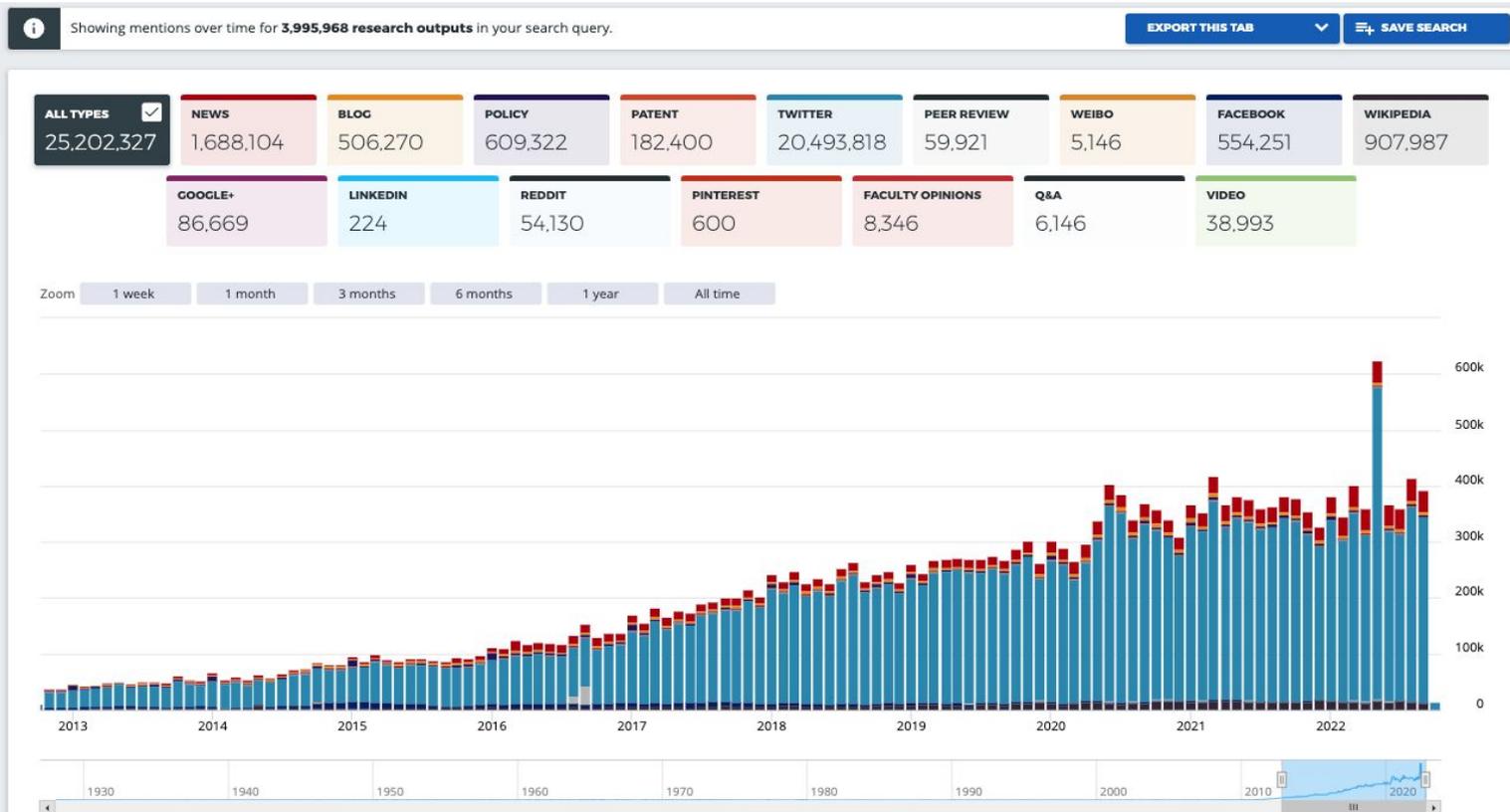
The sharing online of research



Zoom 1 week 1 month 3 months 6 months 1 year All time



A look at the humanities and social sciences



Creative arts

Economics

Law and legal studies

Language, comms, & culture

Psychology

Cognitive Science

Philosophy

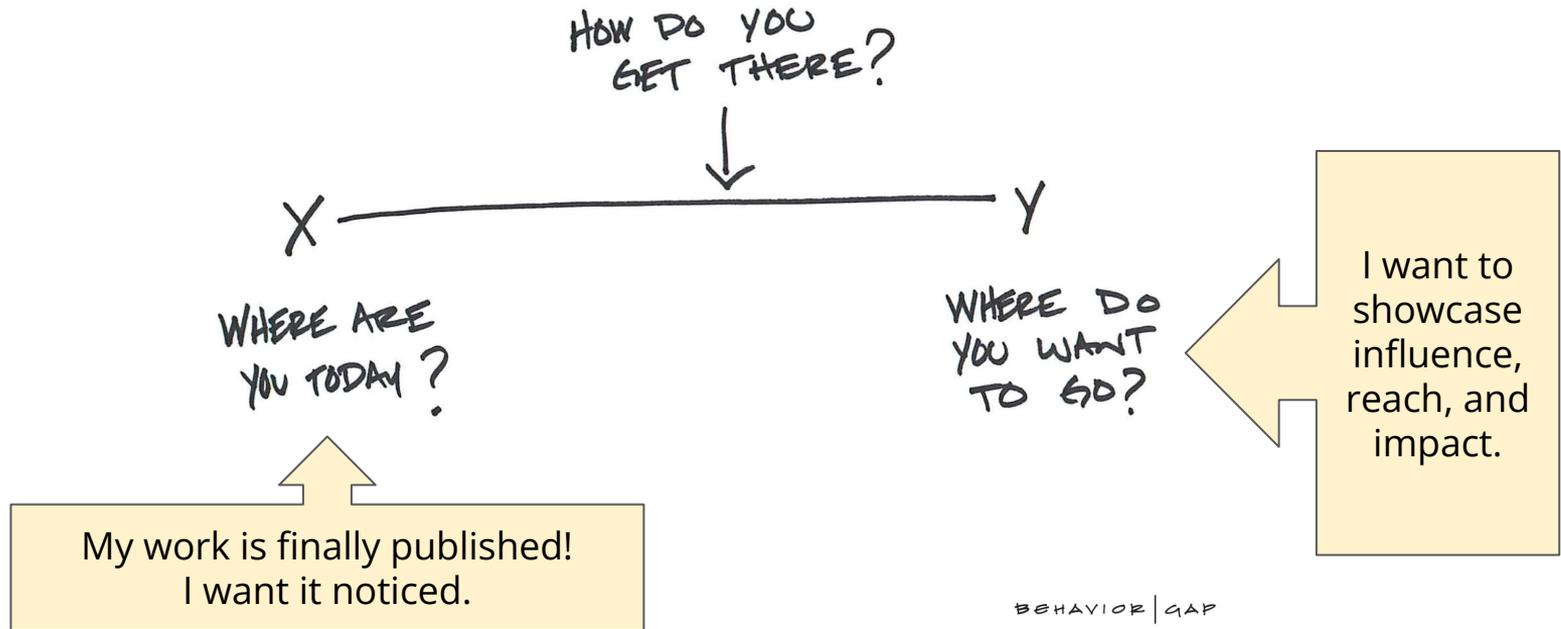
Religious Studies

History

Archeology

Human studies

How do you get attention?



Start talking about your research!



10 clever tips for promoting your research online

Promoting your research online is vital if you need to provide evidence of the online engagement for your work, particularly when applying for promotion or tenure and funding. We've put some tips together as well as the tools you'll need to spread the word about your work and efficiently manage your online reputation.

Be proactive when it comes to sharing

- Diversify platforms - consider sharing on Facebook, Twitter, LinkedIn, Reddit...
 - Research office, library, and researchers can work together to increase visibility
 - Focus promotions around conferences or special events, use relevant hashtags
 - Link to research wherever possible: email signatures, newsletters, department communications, university social accounts, etc.
 - Diversify content when sharing - write a blog post, pitch local bloggers and news outlets
 - Have prepared key points on why the work matters and the key outcomes
-

Sharing best practices for online



nature @nature · May 20

Lead from the Roman era pollutes ice buried deep in an Alpine glacier, providing some of the oldest evidence that mining and smelting during the period spread environmental contaminants across Europe. [#ResearchHighlight](#)

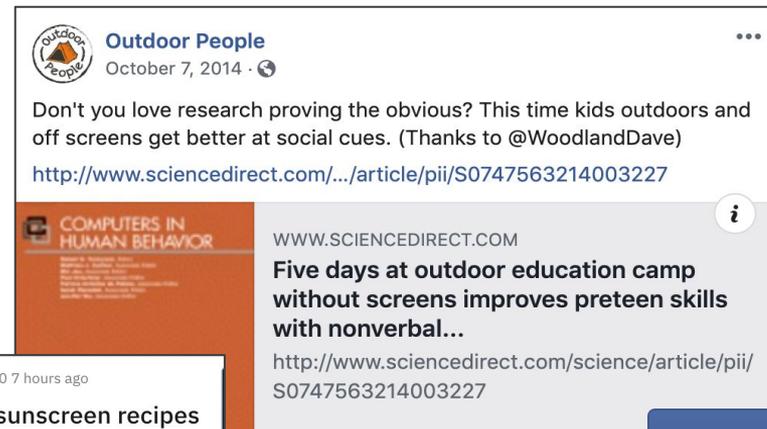


De Agostini/Getty

Lead from Roman mines pollutes ancient Alpine ice

A Mont Blanc glacier core also contains antimony from smelting carried out two millennia ago.

nature.com



 **Outdoor People**
October 7, 2014 · 🌐

Don't you love research proving the obvious? This time kids outdoors and off screens get better at social cues. (Thanks to @WoodlandDave)

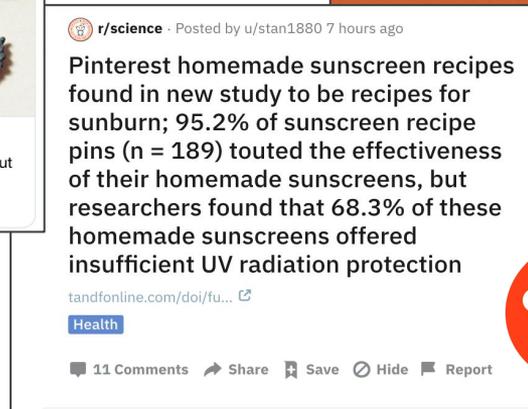
<http://www.sciencedirect.com/.../article/pii/S0747563214003227>

 **COMPUTERS IN HUMAN BEHAVIOR**

WWW.SCIENCEDIRECT.COM

Five days at outdoor education camp without screens improves preteen skills with nonverbal...

<http://www.sciencedirect.com/science/article/pii/S0747563214003227>



 **r/science** · Posted by u/stan1880 7 hours ago

Pinterest homemade sunscreen recipes found in new study to be recipes for sunburn; 95.2% of sunscreen recipe pins (n = 189) touted the effectiveness of their homemade sunscreens, but researchers found that 68.3% of these homemade sunscreens offered insufficient UV radiation protection

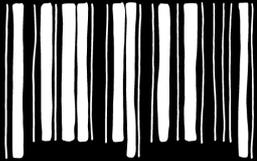
tandfonline.com/doi/fu...

[Health](#)

11 Comments Share Save Hide Report



Ensure your online attention is trackable



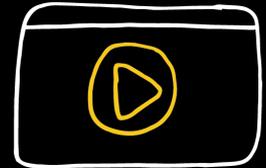
Altmetric relies on identifiers, like DOIs, to match up mentions with publications. Identifiers are usually located on journal websites or repositories



When sharing research online, e.g. Twitter, always include a link to the output, not a secondary source.



Encourage your institution, journalists, bloggers and other science communicators to do the same and watch attention to your research grow!



Learn more by watching this short [video](#) or view this [blog post](#)

Tweet example

Link to research



 **nature**  @nature · 2h
Researchers have reported th
The merger has created a ma
with a lifetime of about 10,000
go.nature.com/2VWIO92

nature.com/articles/s41586-019-1216-1

nature

Explore content ▾ About the journal ▾ Publish with us ▾ Subscribe

nature > letters > article

Letter | Published: 20 May 2019

A massive white-dwarf merger product before final collapse

[Vasili V. Gvaramadze](#) , [Götz Gräferer](#) , [Norbert Langer](#), [Olga V. Maryeva](#), [Alexei Y. Kniazev](#), [Alexander S. Moskvitin](#) & [Olga I. Spiridonova](#)

Nature **569**, 684–687 (2019) | [Cite this article](#)

5748 Accesses | 28 Citations | 490 Altmetric | [Metrics](#)

Abstract

Gravitational-wave emission can lead to the coalescence of close pairs of compact objects orbiting each other^{1,2}. In the case of neutron stars, such mergers may yield masses above the Tolman–Oppenheimer–Volkoff limit (2 to 2.7 solar masses)³, leading to the formation of black holes⁴. For white dwarfs, the mass of the merger product may exceed the Chandrasekhar limit, leading either to a thermonuclear explosion as a type Ia supernova^{5,6} or to a collapse forming a neutron star^{7,8}. The latter case is expected to result in a hydrogen- and helium-free circumstellar nebula and a hot, luminous, rapidly rotating and highly magnetized central star with a lifetime of about 10,000 years^{9,10}. Here we report observations of a hot star with a spectrum dominated by emission lines, which is located at the centre of a circular mid-

repository.lboro.ac.uk/articles/presentation/Responsible_metrics_what_s_the_state_of_the_art/10003274/1

Designing for diverse learners



Always...

Always use a combination of colour, shapes and text to convey meaning.

Start

Avoid...

Avoid the use of colour as the only way to convey meaning.



Designing%20for%20Diverse%20Lear...pdf (391.77 kB)

1/1 ^ v 🔍 🔍 📄 🗑️

Designing for Diverse Learners Poster [3.2.2]

Cite Download (391.77 kB) Share Embed + Collect



Poster posted on 2021-10-20, 18:09 authored by Lee Fallin, Sue Watling

The *Designing for Diverse Learners Poster* is a resource developed to help educators (teachers, academics and professional services) create inclusive and accessible content for learners.

USAGE METRICS

4412 views | 626 downloads | 0 citations



The poster distils advice on how to support learners that fall into one of the following

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URL with DOI

Share options

Altmetric details page

Designing for Diverse Learners Poster [3.2.2]

Overview of attention for research output published on Edge Hill University, October 2021



About this Attention Score

In the top 5% of all research outputs scored by Altmetric

Mentioned by

134 tweeters
1 Redditor

What is this page?

SUMMARY

Twitter

Reddit

Title Designing for Diverse Learners Poster [3.2.2]

Published on Edge Hill University, October 2021

DOI [10.25416/ntr.16840531](https://doi.org/10.25416/ntr.16840531)

Authors Fallin, Lee, Watling, Sue

Abstract The Designing for Diverse Learners Poster is a resource developed to help educators (teachers... [show]

Explore further

View on publisher site

Alert me about new mentions

TWITTER DEMOGRAPHICS

ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of 134 tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)



ALD ALDinHE and LearnHigher
@aldinhe_uh

RT @NTRepository: Designing for Diverse Learners. Another awesome-ly useful insightful and practical poster from the amazing @LeeFallin and...

24 Jun 2022

EHU | Centre for Learning and Teaching
@CLTatEHU

@LeeFallin - your posters just get better and better!

24 Jun 2022

The National Teaching Repository
@NTRepository

Designing for Diverse Learners. Another awesome-ly useful insightful and practical poster from the amazing @LeeFallin and colleagues <https://t.co/feyx15OmNj> (The other one can be viewed here: <https://t.co/W1M6oj29b6>) <https://t.co/hW2GPR0SH4>

24 Jun 2022

Averil Robertson
@AverISO

RT @LeeFallin: So happy to be re-sharing the Designing for Diverse Learners poster via @NTRepository. The poster was created by me & @sue...

10 Jun 2022

Sanna Eronen
@sannamaria

RT @LeeFallin: So happy to be re-sharing the Designing for Diverse Learners poster via @NTRepository. The poster was created by me & @sue...

10 Jun 2022

NTF Tweet
@NTF_tweet

RT @LeeFallin: So happy to be re-sharing the Designing for Diverse Learners poster via @NTRepository. The poster was created by me & @sue...

10 Jun 2022

Gabriella Rodolico
@DrRodolico

Thanks @DavidWoodff for pointing it out. What a great piece of work simple and effective, informative and accessible. I really enjoyed it with my morning coffe @LeeFallin @suewatling <https://t.co/cNzic2bDMj>

17 Mar 2022

EHU | Centre for Learning and Teaching
@CLTatEHU

RT @beld17: Oh my goodness @LeeFallin! Accumulated overnight in less than 12 hours .. amazing stats for this awesome poster. View it here:...

07 Mar 2022

Jardin
@afdgjardin

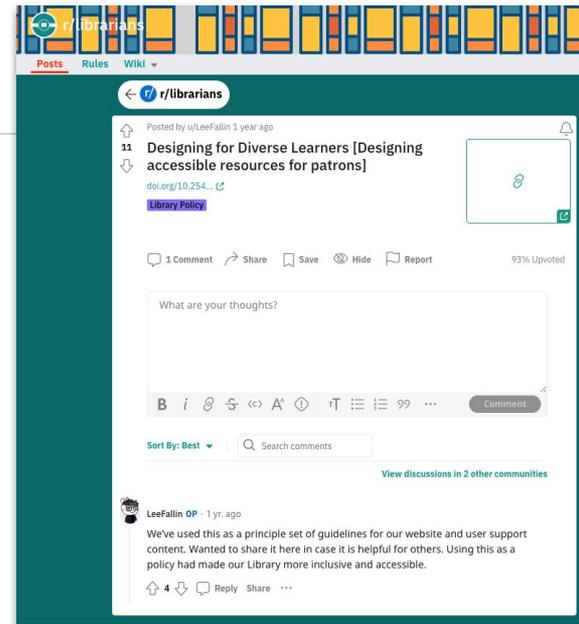
RT @NTRepository: Check out this brilliant poster: <https://t.co/W1M6oj29b6> Thank you @LeeFallin for sharing! The power of #thechat <https://t.co/...>

02 Dec 2021

Ashley Coffey ✨XR/VR/AR
@ashleycoffey_

Great resource to bookmark here for creating #inclusive content for learners: <https://t.co/HsnuSTKptq>

20 Nov 2021



Dr Lee Fallin @LeeFallin · Oct 22, 2021

So happy to be re-sharing the Designing for Diverse Learners poster via @NTRepository.

The poster was created by me & @suewatling to help improve #accessibility & promote #inclusive resource design. #loveLD #LTHEchat #MIEExpert

Check it out: doi.org/10.25416/ntr1... pic.twitter.com/Ca7waZtcYs

Altmetric Details Page

7

About this Attention Score
In the top 25% of all research outputs scored by Altmetric

Mentioned by
10 tweeters
1 video uploader

Tools
Open in a new tab

SUMMARY | Twitter | Video

Title Economic Risk, Resources and Environment (ERRE) model
Published on figshare, March 2020
DOI 10.25411/aru.10110710
Authors Jones, Aled, Pasqualino, Roberto
Abstract Economic Risk, Resources and Environment (ERRE) is a system dynamics model...

[View on publisher site](#)

TWITTER DEMOGRAPHICS

The data shown below were collected from the profiles of 10 tweeters who mentioned this work. [More information was compiled.](#)

ar.u. | Anglia Ruskin University

Browse Search on Anglia Ruskin Un... Log in

Resources, Financial Risk and Dynamics of Growth

Systems and Global Society

ONLINE APPENDICES

Roberto Pasqualino and Aled Wynne Jones
January 2020

- Pasqualino and Jones - 2020 - Appendix.pdf (8.92 MB)
- ERRE Vensim Reader Guide.pdf (2.17 MB)
- ERRE_Model_10012020.vpm (7.81 MB)
- VensimREDx32Setup.exe (17.2 MB)
- Historical.vdf (26.37 kB)
- 05 Base 01.vdfx (51.39 MB)
- 05 ST Scenario 0 Calibration H.vdf (8.52 MB)
- 05 ST Scenario 1 Fossil Shock 10 s10 H.vdf (8.52 MB)
- 05 ST Scenario 1 Fossil Shock 10 s20 H.vdf (8.53 MB)

Switch View 1/84 Pasqualino and Jones - 2020 - Appendix.pdf (8.92 MB)

Economic Risk, Resources and Environment (ERRE) model

Cite Download all (1.29 GB) Share Embed + Collect

Version 1 (old) Software posted on 2020-03-04, 06:07 authored by Aled Jones, Roberto Pasqualino

USAGE METRICS
3023 views 4386 downloads 1 citations

Economic Risk, Resources and Environment (ERRE) is a system dynamics model whose purpose is to analyse the financial pressures emerging from global economic

7

Hide footer



Aled Jones
@aledjones_gsi

RT @RobPasqualino: My presentation @WPISDclub @S_D_Society. Explains how different economics schools of thought can be found in the ERRE S...

10 Feb 2021



Roberto Pasqualino (He/Him)
@RobPasqualino

My presentation @WPISDclub @S_D_Society. Explains how different economics schools of thought can be found in the ERRE System Dynamics model. Thanks @CUSP_uk @GSI_ARU Model: <https://t.co/8K50IM9v8K> Video: <https://t.co/mAD5pE3Vab> <https://t.co/NAJy9LqtV9>

10 Feb 2021



GSI
@GSI_ARU

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

09 Jun 2020



Ian Christie
@IanPChristie

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



Barry McGovern
@Barrywind

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



CUSP
@CUSP_uk

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



Aled Jones
@aledjones_gsi

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



Marco A K M
@akmmarco

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



System Dynamics Society
@S_D_Society

RT @RobPasqualino: Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July!...

08 Jun 2020



Roberto Pasqualino (He/Him)
@RobPasqualino

Thanks to the @S_D_Society, I am looking forward to bringing this along at the #systemdynamics Conference 2020 in July! Also thanks to @CUSP_uk, @GSI_ARU, @aledjones_gsi for the support. More info, appendices, and the ERRE model can be found here <https://t.co/8K50IM9v8K>

08 Jun 2020



The Swiss Cheese Respiratory Virus Defence

Overview of attention for research output published on figshare, October 2020



About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by

- 6 news outlets
- 1 blog
- 3895 tweeters

SUMMARY News Blogs Twitter

Title The Swiss Cheese Respiratory Virus Defence

Published on figshare, October 2020

DOI 10.6084/m9.figshare.13082618

Authors Mackay, Ian M.

Abstract An infographic I made to help clarify that in order to best limit personal risk and community... [show]

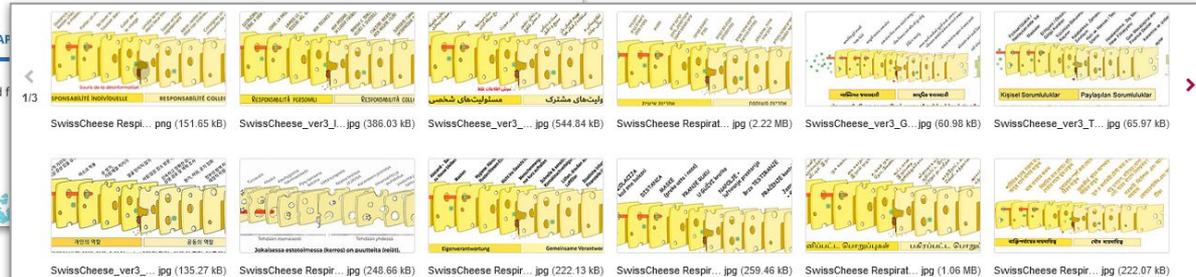
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View on publisher site

Alert me about new mentions

TWITTER DEMOGRAPHY

The data shown below were collected from [Twitter](#) and [how the information was compiled](#).



Switch View 43 files

The Swiss Cheese Respiratory Virus Defence

Cite Download all (34.37 MB) Share Embed + Collect

Version 26 ▼ Figure posted on 2022-10-17, 14:35 authored by Ian M. Mackay

An infographic I made to help clarify that in order to best limit personal risk and community risk from being infected by, or passing on, SARS-CoV-2 and any other respiratory viruses like influenza, RSV and rhinoviruses. We need to think of using a range of risk reduction measures. Each has its own failings and these can be affected by circumstances so layering them up helps avoid any single measure's (layer) problems (holes).

USAGE METRICS

97458 views 17407 downloads 1 citations



CATEGORIES

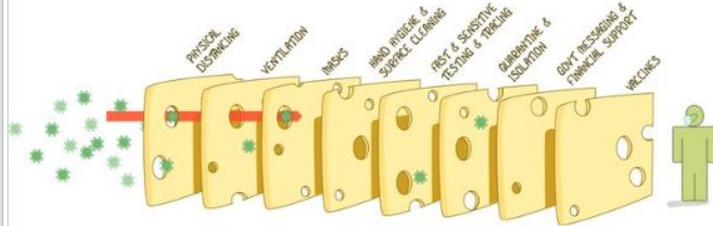
IAN M. MACKAY, PHD 🌱🤔👤🧼🧻📢 @MackayIM · Oct 15, 2020

The new version as promised (ver2).
It adds vaccines (at the end because gen1 won't simply fix everything) & tracing has been combined with the fast & sensitive testing slice.
I've combined hand & surface cleaning.
Constructive feedback welcome.

[Show this thread](#)

THE SWISS CHEESE RESPIRATORY VIRUS PANDEMIC DEFENCE

RECOGNISING THAT NO SINGLE INTERVENTION IS PERFECT AT PREVENTING SPREAD



EACH INTERVENTION (LAYER) HAS IMPERFECTIONS (HOLES).
MULTIPLE LAYERS IMPROVE SUCCESS.

IAN M. MACKAY
VIRUSDEFENCE@GMAIL.COM
BASED ON THE SWISS CHEESE MODEL OF ACCIDENT ORIGINATED BY SWISS 'S' GROUP, 1999
VERSION 2
ISSUE: 15061201

Damian @DamianTheAussie · Oct 18, 2020

Replying to @MackayIM

The only thing missing from this great illustration, but which plays a very real part in the real world, is media/misinformation. I feel like there should be another red arrow going through every single slice to represent this.

🗨️ 1 🔄 2 ❤️ 4 📊 📤

IAN M. MACKAY, PHD 🌱🤔👤🧼🧻📢 @MackayIM... · Oct 18, 2020

Replying to @DamianTheAussie

That's a good suggestion!

🗨️ 1 ❤️ 2 📊 📤

Vincent Rajkumar
@VincentRK

RT @70sBachchan: @VincentRK Exactly. A lot that individuals can do given 11 more weeks of an incompetent govt during a huge surge in cases...

07 Nov 2020

Maria Kruse • NDS
@belden_trixi

The Swiss Cheese Respiratory Virus Defence <https://t.co/NnN1k7FU>

07 Nov 2020

Greenfairy 🇩🇪🇫🇷🇪🇺
@Greenfairy_1

RT @70sBachchan: @V2019N That no single layer helps stop the virus from infecting one person to the next as much as all the layers together...

07 Nov 2020

Rick Harp
@theRickHarp

RT @70sBachchan: @V2019N That no single layer helps stop the virus from infecting one person to the next as much as all the layers together...

07 Nov 2020

Albert Pinto
@70sBachchan

@ClimateHuman Wish ppl understood that many "Swiss Cheese" actions can be done by individuals protecting each other even if there is an incompetent Trump govt! <https://t.co/GAFswOfiQU>

07 Nov 2020

Albert Pinto
@70sBachchan

@VincentRK Exactly. A lot that individuals can do given 11 more weeks of an incompetent govt during a huge surge in cases. <https://t.co/GAFswOfiQU>

07 Nov 2020

debater85
@debater85

RT @70sBachchan: @V2019N That no single layer helps stop the virus from infecting one person to the next as much as all the layers together...

07 Nov 2020

Achilleas Kostoulas
@AchilleaK

RT @70sBachchan: @V2019N That no single layer helps stop the virus from infecting one person to the next as much as all the layers together...

07 Nov 2020

Petit_Nicolas
@L_petit_Nicolas

RT @70sBachchan: @V2019N That no single layer helps stop the virus from infecting one person to the next as much as all the layers together...

07 Nov 2020

Marc Arenstein
@marinatk

@mialanda @MackayIM @UQ_News @kat_arden looking at the slides at <https://t.co/f4UoLvp50M> on Fri Nov 6, slide: 1 German 2 and 12 French 3 to 5 and 8 Spanish 6 and 7 English 9 Icelandic 10 Greek 11 Portuguese 13 Italian 14 Persian 15 Hebrew

06 Nov 2020

UW-Madison Biochem
@UWBiochem

The Swiss Cheese Respiratory Virus Defence. Sconnies should get this:
doi.org/10.6084/m9.fig...

9:59 AM · Oct 13, 2020

25

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Published on Loughborough University, October 2019

DOI 10.17028/rd.lboro.10003274

Authors Gadd, Elizabeth

Abstract Presentation given at the FORCE2019 conference in Edinburgh on Wednesday 16 October, 2019

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1/65

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We've been (re)considering metrics, and have just been musing around [@LizzieGadd's 'Responsible metrics: what's the state of the art' \(doi.org/10.17028/rd.lb...\)](#) Plenty of food for thought!

6:50 AM · Sep 14, 2020

2 Retweets 6 Likes



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Reply



Dr Elizabeth Gadd @lizziegadd@mastod... @Lizzi... · Sep 14, 2020



Replying to [@GRE_Research](#)

Thank you! The live recording of this session is linked to from my blog if of interest!



lizziegadd.wordpress.com

Recorded talks

For recordings of some recent talks, please click on the links below. The growth and limitation of ...



Dr Elizabeth Gadd @lizziegadd@mastodon.online

@LizzieGadd



The slides from my recent [#FORCE2019](#) talk on Responsible Metrics: What's the State-of-the-Art? are now available on [@lborouniversity's](#) Research Repository at doi.org/10.17028/rd.lb...

7:00 AM · Oct 22, 2019

26 Retweets 6 Quotes 41 Likes



Rebecca Welzenbach

@Rwelzenb

Really useful and important guidance!

22 Oct 2019



Cecilia Arighi

@ArighiCecilia

[@LizzieGadd](#) your talk was very enlightening. Thank you for sharing your perspective about metrics at [#force2019](#)

22 Oct 2019

Tips and final thoughts

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Thank you!

Andrew McKenna-Foster
andrew@figshare.com

Shannon O'Reilly
s.oreilly@digital-science.com

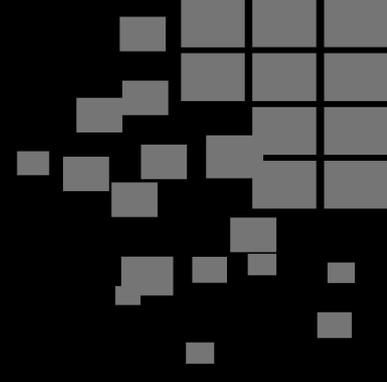


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Andrew McKenna-Foster
andrew@figshare.com

Shannon O'Reilly
s.oreilly@digital-science.com