

# Research Data Discoverability

The role of libraries in making research data  
discoverable and accessible

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*23 February, 2022*

# Research Data Discoverability

The role of libraries in making research data discoverable and accessible

Funders increasingly require that data resulting from funded research be deposited for public access, but until now there have been no standard models for preserving, accessing, or even describing these data sets. In this session, academic librarians will discuss some of the challenges faced by research institutions of different sizes in managing data, explore the differing roles of libraries in this process at these universities, consider how these institutions might more effectively manage data & link it to related publications, and seek input and potential partnerships from the R2R participants.

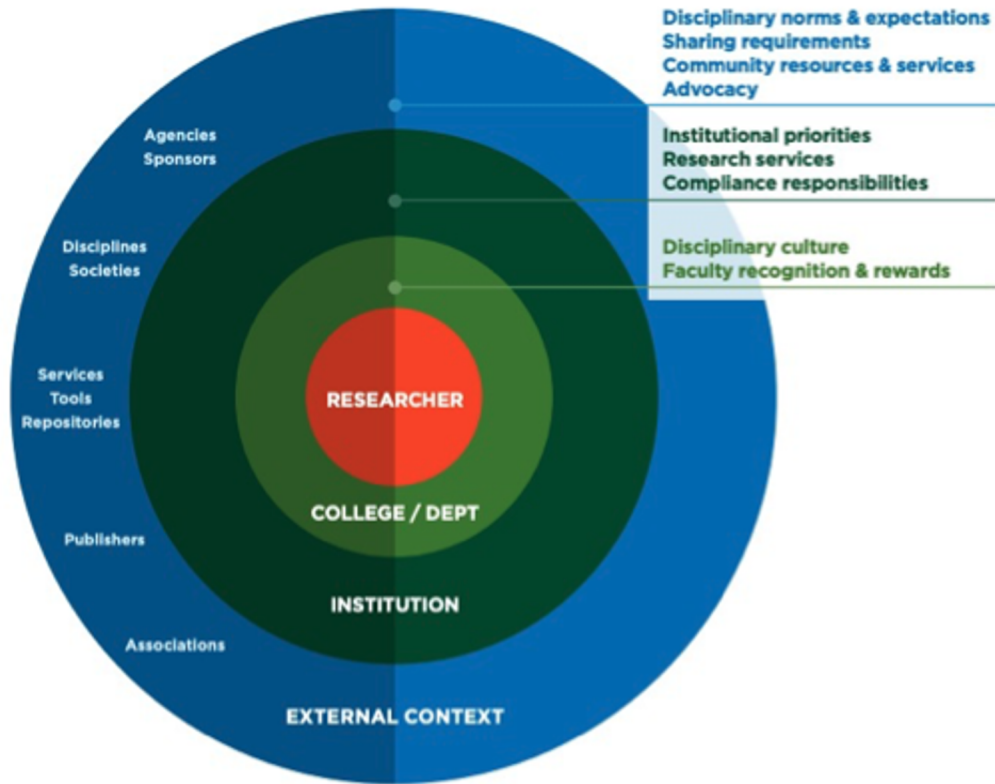
“For researchers to cite papers is second nature, no one thinks twice about it. We need to get them to think about data in the same way.”

-Varsha Khodiyar, Springer Nature  
at the CHORUS Forum, January 2021

## Data management

- Compliance with funder mandates
- Metadata and linking
- Reporting
- Preservation and access
- Reputation management

## Ecosystem influencing researcher actions



Adapted from Austin, 2011, *Promoting evidence-based change in undergraduate education*, National Research Council.



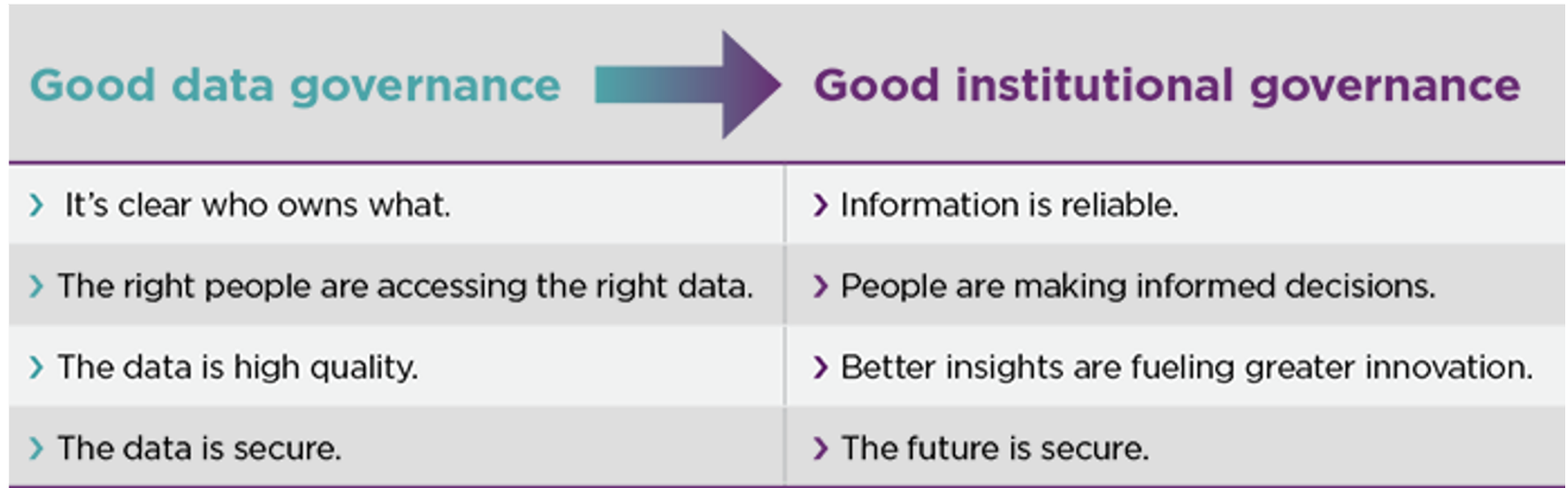
# About Us:

## Institutional Profiles (Annual Productivity)

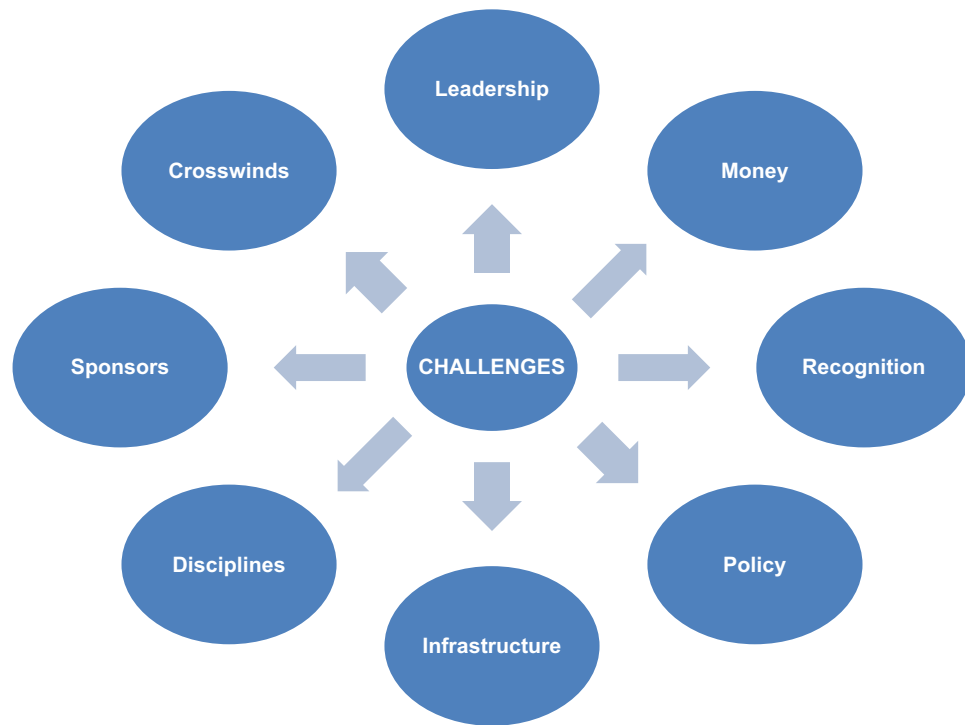
	UNAM	University of Denver	University of Florida
<b>Carnegie Class [or equivalent]</b>	<b>[Doctoral Universities: Very High Research Activity]</b>	<b>Doctoral Universities: Very High Research Activity (R1)</b>	<b>Doctoral Universities: Very High Research Activity (R1)</b>
<b>Doctoral Degrees</b>	<b>892</b>	<b>389</b>	<b>1,859</b>
<b>Full Time Faculty</b>	<b>13,113</b>	<b>762</b>	<b>5,237</b>
<b>Librarians &amp; Professional Staff</b>	<b>278</b>	<b>31</b>	<b>111</b>
<b>Faculty : Lib &amp; Prof Staff Ratio</b>	<b>47:1</b>	<b>25:1</b>	<b>47:1</b>
<b>Research Expenditures</b>	<b>\$639 million</b>	<b>\$41 million</b>	<b>\$942 million</b>
<b>Number of Articles*</b>	<b>7,867</b>	<b>669</b>	<b>8,415</b>
<b>Disciplines (Strengths)</b>	<b>STEM</b>	<b>Social and Behavioral Sciences</b>	<b>STEM</b>

*\*Articles published in 2020 - Source: Web of Science*

# What roles do you play in managing research data?



# What are the key challenges you face in managing data?



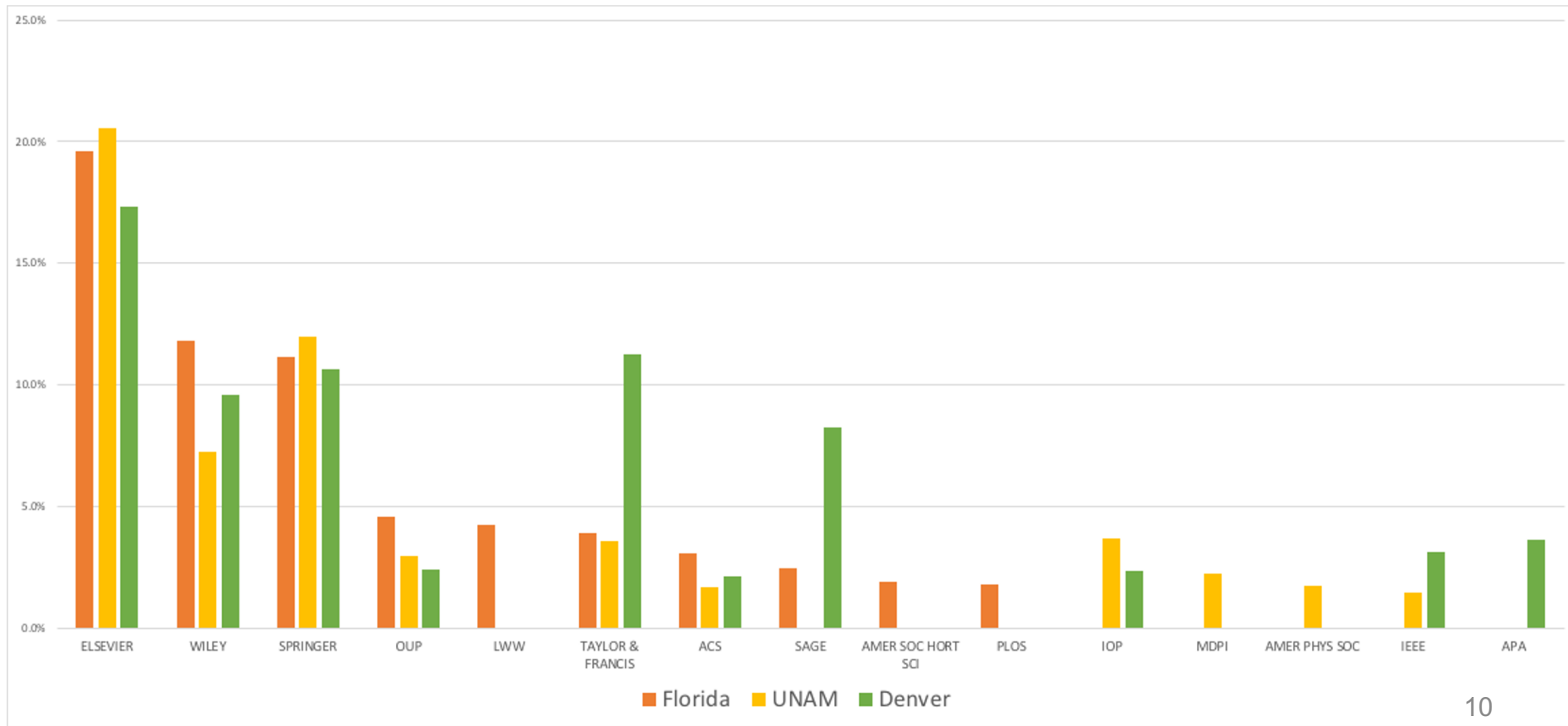
*Adapted From Sarah Nusser's talk at  
the CHORUS Forum, January 2021*

What would help  
you overcome  
some of the  
barriers to  
managing data?

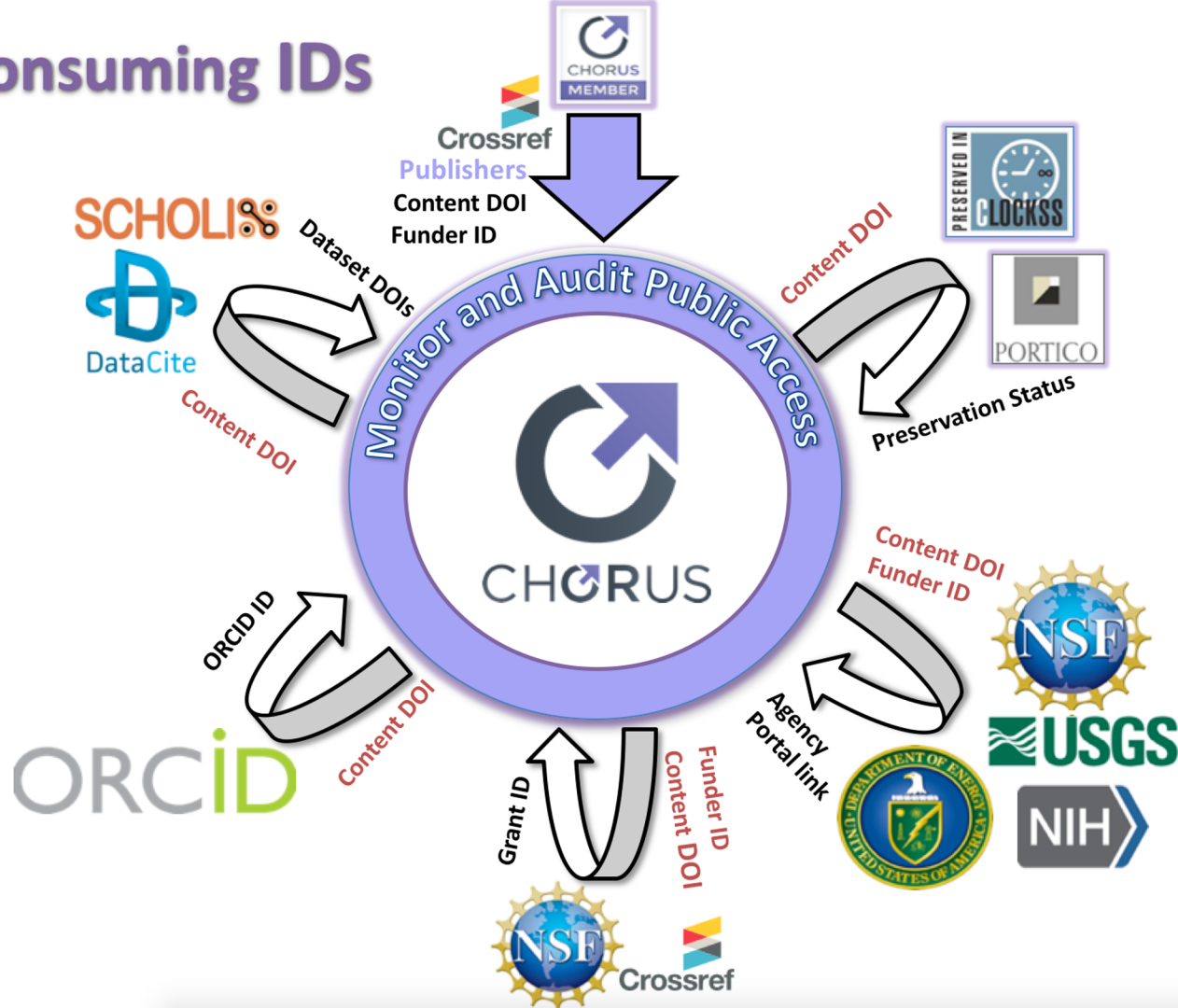


How can publishers, intermediaries, and funders help libraries manage research data?

# Comparison of Top 10 Publishers Utilized: 2011-2020



# Consuming IDs



## University of Denver

ROR ID: 04w7skc03

GRID: grid.266239.a

Click on Data link above to view underlying data and to click through to DOI links to journal articles on publishers' sites.

## Today's Indicators

1,383 - Publications to date, where: ?

22.9% - Verified open access on Publishers Site ?

35.8% - Reuse terms available ?

59.4% - Archived ?

2.7% - Datasets ?

20.3% - ORCID IDs ?

17.1% - Agency Portal URLs ?

83 - # Unique number of Datasets

169 - # Unique number of ORCID IDs

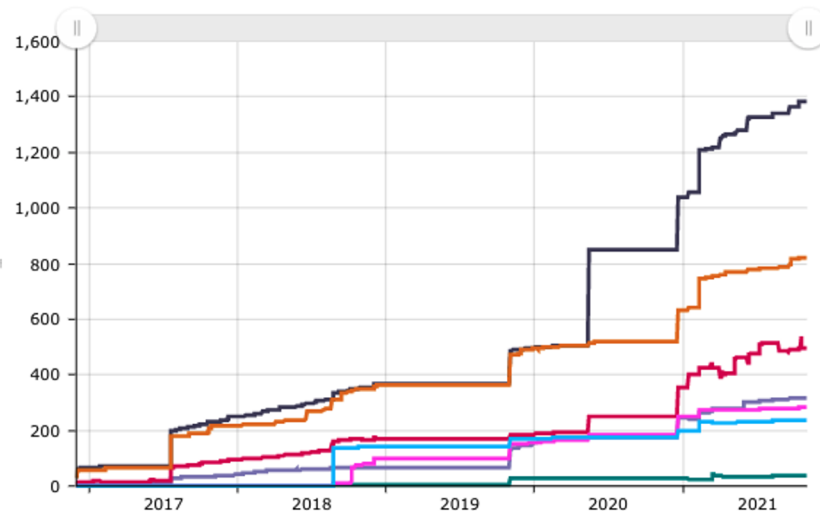
237 - # Unique number of Agency Portal URLs

## Key Performance Indicators - History

Click on colored dots in legend to show or hide key indicator lines

☐ Filter: CHORUS Funder Participants

● Total ● Open Access On Publishers Site ● Reuse Terms Available ● Archived  
● Datasets ● ORCID IDs ● Agency Portal URLs





# CHORUS Data Sources

**Publication** - DOI Record for article or conference proceeding with one or more Crossref Funder Registry Numbers

**Open Access on Publisher Site** - verified as OA by CHORUS auditing services

**Reuse Terms Available** - as registered to DOI, linked to license type

**Archived** - reported as ingested by CLOCKSS or Portico

**Datasets** - links to datasets associated with article (OpenAIRE Scholixplorer Service / Scholix)

**ORCID IDs** - reported by ORCID

**Agency Portal URLs** - links to articles on funders' sites

**Grant ID** - reported by funders and / or Crossref

## University of Florida

ROR ID: 02y3ad647

GRID: grid.15276.37

Click on Data link above to view underlying data and to click through to DOI links  
to journal articles on publishers' sites.

## Today's Indicators

26,135 - Publications to date, where: ?

28.1% - Verified open access on Publishers  
Site ?

42.8% - Reuse terms available ?

61.1% - Archived ?

3.1% - Datasets ?

31.3% - ORCID IDs ?

19.6% - Agency Portal URLs ?

3262 - # Unique number of Datasets

4316 - # Unique number of ORCID IDs

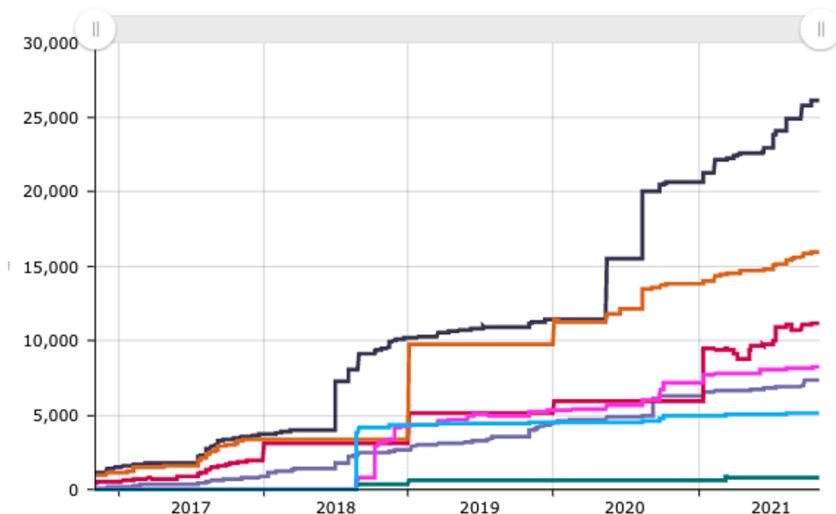
5165 - # Unique number of Agency Portal URLs

## Key Performance Indicators - History

Click on colored dots in legend to show or hide key indicator lines

☐ Filter: CHORUS Funder  
Participants

● Total ● Open Access On Publishers Site ● Reuse Terms Available ● Archived  
● Datasets ● ORCID IDs ● Agency Portal URLs



Click on Data link above to view underlying data and to click through to DOI links  
to journal articles on publishers' sites.

## Today's Indicators

12,487 - Publications to date, where: ?

4.4% - Verified open access on Publishers  
Site ?

28.9% - Reuse terms available ?

11.1% - Archived ?

0.8% - Datasets ?

5.5% - ORCID IDs ?

2.7% - Agency Portal URLs ?

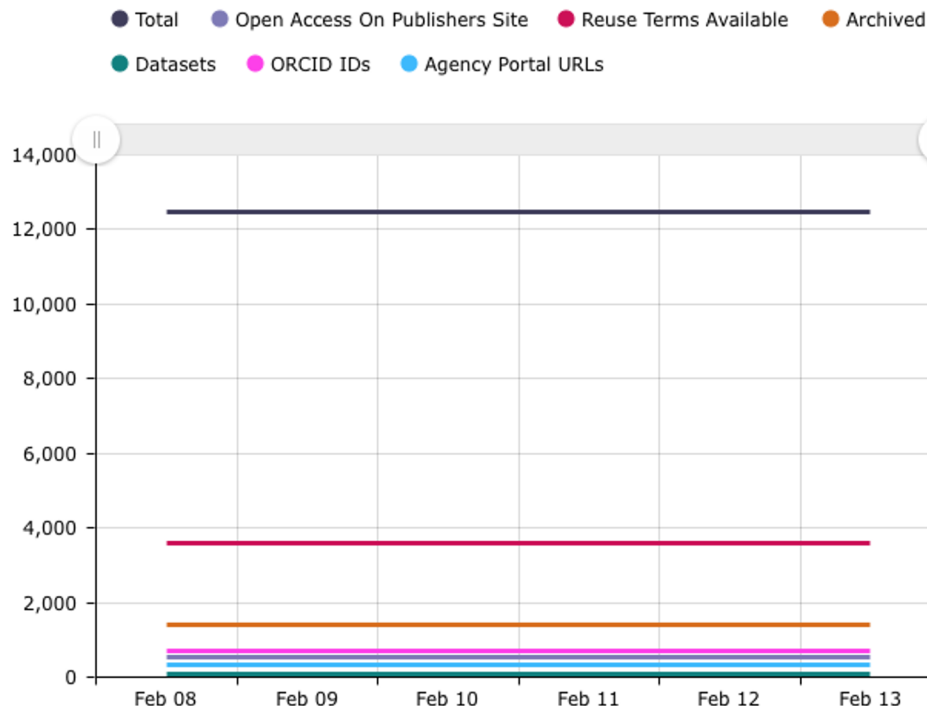
378 - # Unique number of Datasets

1035 - # Unique number of ORCID IDs

366 - # Unique number of Agency Portal URLs

## Key Performance Indicators - History

Click on colored dots in legend to show or hide key indicator lines



# Open Access mandates in Latin America for publications and research data

## Legislative mandate policies of Open Access for publications and research data

- Peru (2013) - Mandatory
- Argentina (2013) - Mandatory
- Mexico (2014) - Non mandatory

Source: Babini, Dominique & Rovelli, Laura  
Tendencias recientes en las políticas científicas de ciencia abierta y acceso abierto en Iberoamérica

## Recommendations issued by the national science agencies

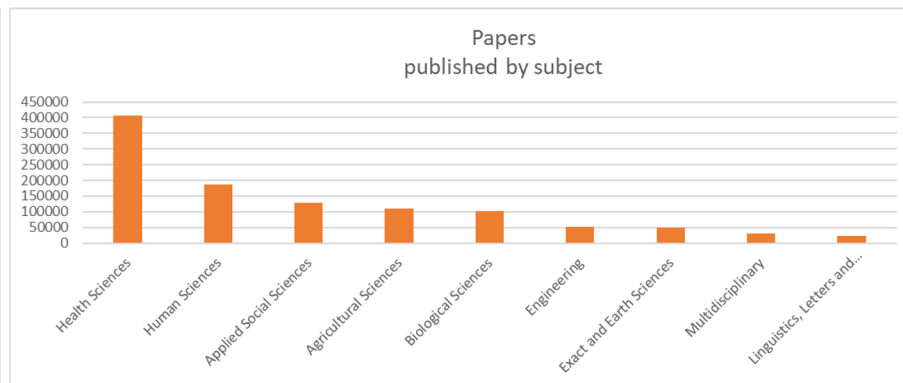
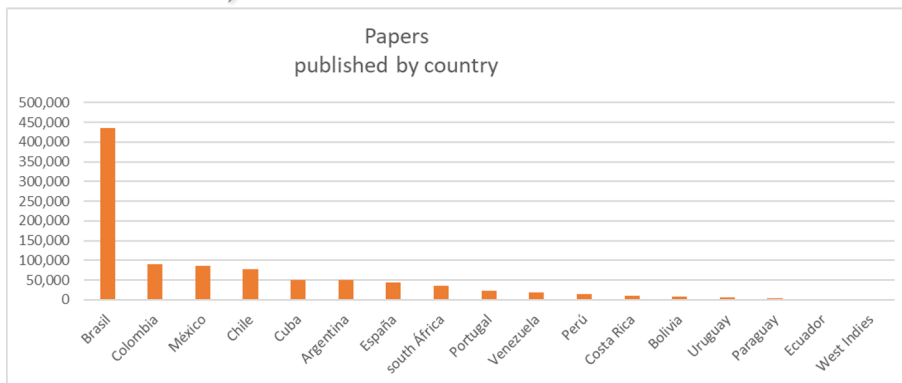
- Brazil (2007 and 2011)
- Chile (2014)
- Colombia (2019)

Source: Babini, Dominique & Rovelli, Laura  
Tendencias recientes en las políticas científicas de ciencia abierta y acceso abierto en Iberoamérica



Scientific Electronic Library Online  
<https://scielo.org/>

Its main objective is to increase the dissemination and visibility of the scientific publications in Latin America, Caribbean, Spain and Portugal.



Source: scielo.org

How can publishers, intermediaries, and funders help manage research data?

# Contact Information

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