



# CHORUS

ANNUAL REPORT 2020

## FROM THE EXECUTIVE DIRECTOR AND BOARD CHAIR

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Since 2015 CHORUS has been collecting and visualizing funder and institution metadata from published articles and is recognized as a trusted source of information about the access status of funded articles. We continue to advance that work while making new strides as a convener in the scholarly research community and as an essential partner as funders, publishers, and institutions collaborate to advance open research.

We see data as a place we can contribute significantly via our experience in linking metadata and developing infrastructure. Examples of projects already in progress include one with The Coleridge Initiative to assess dataset use and impact of federally funded research. CHORUS is also supporting the American Geophysical Union with a project funded by a grant from the National Science Foundation that focuses on open data citation.

CHORUS' connections to the wider scholarly infrastructure are leading to new standards and increased transparency across the scholarly research community. We began work with DataCite to adopt simple identifiers and unambiguous links between datasets, researchers, and their funders. Using GetFTR has helped CHORUS accelerate the auditing of publisher member articles for accessibility, and the number of articles identified as open has doubled to over half a million by the end of 2020.

Our first CHORUS Forum on *Open Access Policies and Compliance in a Global Context* brought funders and publishers together with university administrators, librarians, and researchers for a lively discussion. It is clear that cooperation across stakeholder groups is key to advancing open research. We hope the CHORUS Forum series will facilitate sharing and lead to future collaborations.

A heartfelt thank you to all of our volunteers who serve on the board, committees, working groups, and task forces throughout the year. We look forward to seeing you outside of a Zoom square at some point in 2021!

Howard Ratner  
*Executive Director, CHORUS*

Alexandra (Alix) Vance  
*CEO, AIP Publishing*  
*Chair, CHORUS Board of Directors*

## 2020 ACHIEVEMENTS

### Building New Partnerships

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CHORUS is named in a [National Science Foundation \(NSF\)](#) grant made to the [American Geophysical Union \(AGU\)](#) designed to further open data citation best practices and ensure that NSF earth science data are publicly accessible, linked to publications and grants, and credited. CHORUS will aid in identifying and connecting datasets related to AGU published content that report on NSF-funded research. During the course of the project CHORUS will work with AGU to improve their workflows to better capture dataset-related metadata from open repositories, and use Scholixplorer, DataCite and other APIs to present dataset reports with details such as linked articles, name and type of dataset, repository and creator names, subject classification and reuse license information.

CHORUS is serving as a partner to [The Coleridge Initiative](#) which aims to help government agencies leverage their data as a strategic asset, and to show the value of data produced with federal funding. The Coleridge Initiative is running a Kaggle competition in 2021 where data scientists will use machine learning and natural-language processing to discover references to datasets from peer-reviewed publications related to federally funded research. The algorithms developed in this challenge will then be used to assess dataset use, and to produce data impact scorecards for federal agencies. CHORUS connected The Coleridge Initiative with several publisher members who have made a corpus of full text research articles reporting on funded research from NSF, NIH, USDA, NIST, NOAA available as primary source material for the competition.

CHORUS contributed to workshops run by the Association of American Universities and The Association of Public and Land-Grant Universities on their [Accelerating Public Access to Research Data \(APARD\)](#) initiative. The group is developing a Guide for university administrators that will outline the major steps of developing support systems for data sharing and can be used as a roadmap for academic institutions to support their researchers in making their data publicly accessible.

## Convening Stakeholders

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To explore the potential for a wider open-science framework in Japan, CHORUS and the Japan Science and Technology Agency (JST) collaborated on a session at the 2020 Japan Library Fair and Forum that was attended by funder, publisher, and institutional delegates. Institutions presented use cases illustrating the different ways they are using the CHORUS dashboard and data service in the management of their research output, open access and open data policies and compliance, and providing resources and access to journal content and datasets for their research communities.

Over 140 researchers, publishers, funders, and university leaders attended the virtual webinar *Towards a US Research Data Framework* in September. The event was co-organized by STM, CHORUS, and the Center for Open Science and was part of a series organized in the context of STM's Research Data year.

CHORUS convened its first virtual Forum in July 2020 on *Open Access Policies and Compliance in a Global Context*, with publishers, librarians, funders, service providers, university administrators, faculty, and researchers representing more than 140 institutions and organizations attending. The program included presentations on the changing global compliance mandates for open and public access on government-funded research in the US, Europe and Japan. The second session focused on the challenges and progress for academia in accelerating public access to research data. Representatives from NIH, NIST, NSF and DOE rounded out the event with an overview of the US funder perspective, and a Q&A discussion on preprints, harmonizing mandates, the need for data specialists, federal investment in sustainable infrastructure, and the importance of collaboration.

## Advancing Open Infrastructure

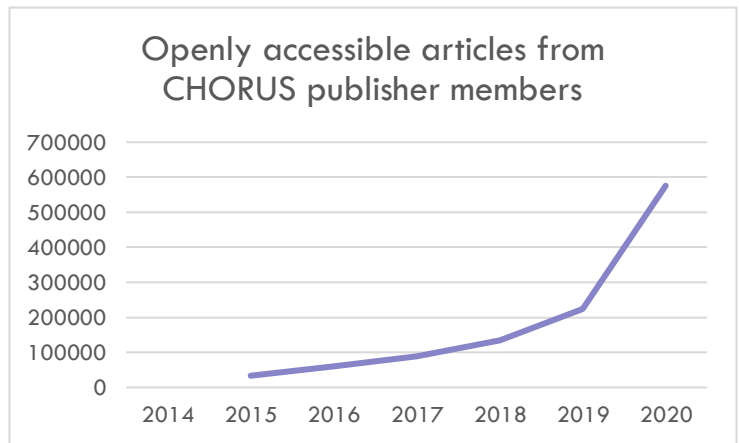
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CHORUS is using the *Get Full Text Research* (GetFTR) technology to speed up and enhance their open research audit process. The GetFTR API is applied to further automate the gathering and checking of key data on journal articles and conference proceedings from multiple publishers, helping CHORUS scale the auditing of some of its largest publisher members. For GetFTR, this means its technology is being used in increasingly innovative ways to support the discovery of research.

CHORUS and [DataCite](#) signed a two-year Memorandum of Understanding in October 2020 to coordinate efforts to adopt identifiers and standards to manage access to and reporting of research outputs. The two organizations will work together to support simple and non-ambiguous links between datasets, researchers and their funding, and to display links between CHORUS content and DataCite DOIs in the CHORUS dashboards and reports. By working with DataCite, CHORUS is able to provide our funder, institution, and publishing partners with more details related to published funded research and where it can be found.

CHORUS has significantly increased the number of articles it tracks by reengineering its services to report on articles associated with [all global funders](#).

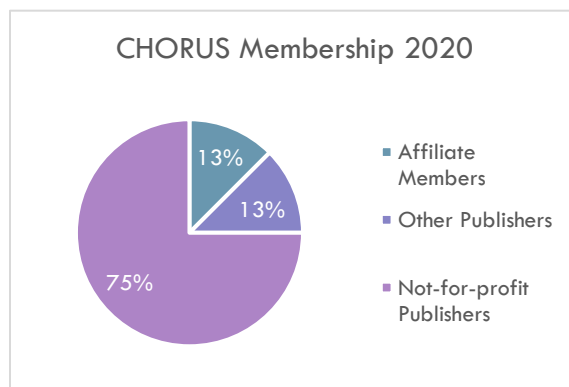
Our new [Data Availability Policies Index](#) provides a centralized index of publisher policies related to data accessibility with links to the publisher's site.



## THE CHORUS COMMUNITY

### MEMBERS

CHORUS membership is comprised of publishers, industry organizations and vendors that support the publishing enterprise. Our publisher members are diverse, representing scientific societies, commercial publishers and academic presses. They are both large and small, offering both open access and subscription models, and the majority are not-for-profits.



### FUNDING AGENCIES

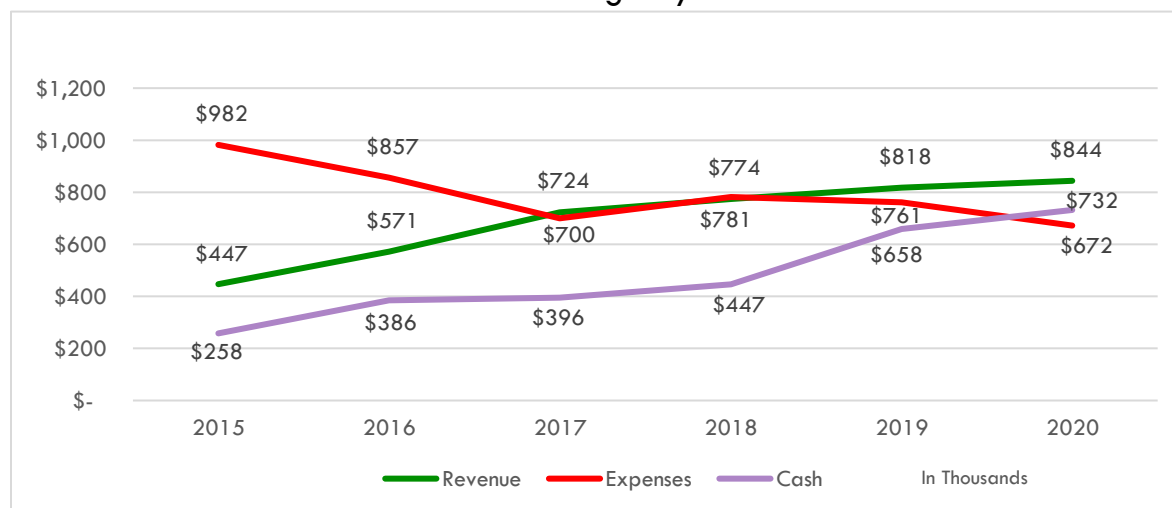
CHORUS now provides comprehensive data and tracking information on the published research of eleven funding agencies. CHORUS publisher members have an obligation to identify articles reporting on funded research and are obligated to make either accepted manuscripts or version of records of these identified articles open after an embargo period or immediately according to their license terms.

### INSTITUTIONAL SUBSCRIBERS

Eleven Academic and Research Institutions in the US and Japan subscribe to the CHORUS Institution Dashboard service in 2020 to help them track faculty output and open access compliance for content and datasets reporting on funded research.

## FINANCIAL OVERVIEW

The majority of CHORUS' revenue comes from membership, with additional contributions from our institutional and agency dashboard services.



## CHORUS BOARD OF DIRECTORS, DECEMBER 2020

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## CHORUS TEAM

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Howard Ratner, Executive Director

Tara Packer, Program Management

Mark Robertson, Asia-Pacific Development



*CHORUS is creating a future where the output flowing from funded research is easily and permanently discoverable, accessible and verifiable by anyone in the world. By providing the necessary metadata infrastructure and governance to enable a smooth, low-friction interface between funders, authors, institutions and publishers in a distributed network environment, CHORUS can minimize open and public access compliance burdens while increasing access to literature and data in support of funder mandates worldwide.*

## Contact Us

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