

## OPENING ADDRESS

# Reflections on the impact of Covid-19 on Open Science

June 22, 2020 | 14:30–15:30 CEST



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# Session Ground Rules

- **This session is recorded.** We'll share the recording and slides afterwards.
- **Questions for the speakers ?** Type them in the **Attendee Chat** on the left side of the screen. The chair will address these at the end of the session.
- **Technical issues.** Check your **settings** under the icon with the three dots, as well as your **internet connection**. No luck? Try to rejoin by closing your tab and reusing the link provided.

*Thank you for your attention and enjoy the session!*

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# Welcome to LIBER 2020 ONLINE

**Building Trust With Research Libraries**

Jeannette Frey, President of LIBER, Director of the  
Bibliothèque Cantonale et Universitaire (BCU) Lausanne

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# Challenging Times

## Where are we now?

- Bringing LIBER Annual Conference online for first time
- Share your experience
- Support from the network
- Thanks to all of you who made this possible!
- Libraries now re-opening

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Closed library, empty KB reading rooms, Steven Claeysens, CC-BY

# Challenging Times

What will the post-Covid-19 era look like?

- Importance of Open Data during the crisis
- EOSC fundamentals in progress
- LIBER will:
  - Focus on the evolving situation for research libraries.
  - Deliver on our promises.
  - Adjust and reinvent our services as needed to reflect covid-19 restrictions.
  - Develop 2023-2027 Strategy

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- OCLC sponsored the LIBER Award for Library Innovation



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- Authors are sharing posters on twitter **#LIBER2020poster**.
- Poster with most retweets wins **People's Choice Award**.
- Conference Programme Committee will award **Best Poster of 2020**.
- On Friday afternoon, we'll announce the two winners.

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# How To Run A Library (Literally): LIBER ★ 2020 ★ ONLINE SELFIE CONTEST

 #howtorunlibrary 

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- Go for a run! Any distance counts.
- Take a selfie during your run.
- Post it on twitter, with the tags *#liber2020* and *#howtorunlibrary*
- On Friday afternoon, we'll announce two winners.

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# ENJOY LIBER 2020 ONLINE



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# Introducing LIBER 2020 ONLINE

## Building Trust With Research Libraries

Julien Roche, LIBER Vice-President, Director of Libraries at  
University of Lille



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## Building Trust With Research Libraries

### Key topics:

- Information and Research Integrity
- Preservation of Collections
- Leadership
- Impact of Libraries
- Securing Trust in Libraries
- Open Knowledge



# LIBER 2020 CALL FOR PAPERS

*“Building Trust with  
Research Libraries”*



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1

WEEK

10

SESSIONS

6

WORKSHOPS

>50

SPEAKERS

Tons of  
Inspiration!

2

PANELS

11

POSTERS

>4.500

LIBER 2020  
registrations with 276  
LIBER libraries  
represented

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## OPENING ADDRESS

# Reflections on the impact of Covid-19 on Open Science

- **Dr. Bertil F. Dorch** will use his research at the University of Southern Denmark to illustrate the managerial challenges during the covid-19 pandemic.
- Following, **Dr. Birgit Schmidt** will summarize the developments in the research field, from the perspective of open science and research data management.
- Finally, **Dr. Giannis Tsakonas** will conclude by discussing the current obstacles research library communities face regarding Open Access and copyright challenges.

# An open window

Lessons derived from managerial challenges during the  
COVID-19 pandemic

Dr. Bertil F. Dorch, Library Director and Associate Professor at  
University of Southern Denmark (SDU)



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# Research in pandemic times

When times get rough turn to open?

Dr. Birgit Schmidt, Head of Knowledge Commons, Göttingen  
State and University Library, Germany



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# Our world has changed

Everyone affected, but not a 'great equalizer'.

A surprise even for those who work on coronaviruses.

Flattening the curve has worked out for many countries, several are still struggling.

Everyone adopted new rules.

Everyone has to adapt to a new reality.



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Image source: <https://pixabay.com/illustrations/coronavirus-virus-health-healthcare-5036245/>

# Six months into the pandemic – where are we?

What did we learn? A ton of new terms.

What is known? E.g.

- Short period of high virus load; asymptomatic carriers can spread the disease as well
- Reproduction rate  $R_0$  of about 2 to 3; can be brought down through e.g. quarantine, social distancing and mask wearing
- Transition indoors more likely than outdoors; track & trace essential, super-spreading

What is still unknown? E.g.

- Immunity, not clear how long it lasts
- How will the next wave of the disease look like
- Vaccine(s) and effective treatments not available yet (long development cycle & production)
- Long-term medical, social and economic effects



# What do researchers do in times of a pandemic?

Keep calm & carry on.

Write up research results.

Turn to new research topics.

Struggle with childcare, technology, etc.

Share preliminary results via preprints.

Reuse and share more research data.

Plan and prepare the reopening of labs.



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Image source: <https://www.flickr.com/photos/chiotrun/6661268725>

# Unequal impacts on academic careers

Work from home = a boost of productivity for all?

Substantial risks for early career / non-tenure-track researchers (delays in lab/field work, cancelled mobility, etc.)

Slump in productivity due to disproportionate burden (e.g. slower growth in preprint submissions, fewer submissions or lead authorships, etc.)

Childcare: +40 hrs/week, majority covered by women (+30 hrs)

Attention is on additional funds for research and short-term effects, additional measures needed to mitigate longer-term effects

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Source: Sevilla, A., & Smith, S. (2020). Baby Steps: The Gender Division of Childcare during the COVID-19 Pandemic (IZA Discussion Paper No. 13302). Institute of Labor Economics. <https://covid-19.iza.org/publications/dp13302/>

# Researchers as science communicators

Corona updates on a daily basis, e.g. via podcasts, debates etc.

Politicians use different sources of information, and are selective according to their needs

Virologists branded as heroes but also under fire by populist media

Professional science communicators take on the challenge to help setting things straight



Was ist jetzt mit den Schulen und Kitas?

749.312 Aufrufe • vor 1 Woche

Untertitel

Sources: <https://www.ndr.de/nachrichten/info/podcast4684.html>;  
<https://bildblog.de/121365/wie-die-bild-redaktion-mit-schmutzigen-tricks-versucht-christian-drosten-zu-zerlegen/>; <https://www.youtube.com/watch?v=De5FGogMWzQ>

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# Research essentials – really anything new?

Discovery and selection of relevant information and data

Swift access to data and full text more essential than ever

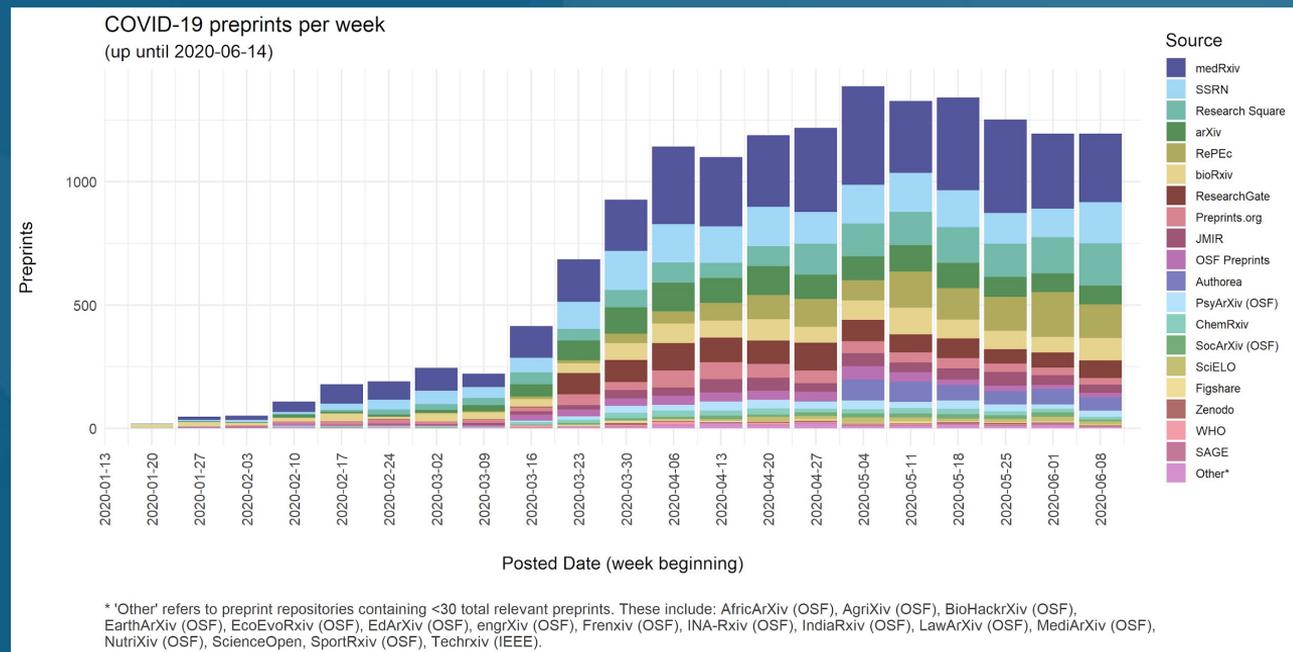
Assess findings based on quality criteria, context and former knowledge

However, high attention and (open) review/comments by scientific community and the general public increase the need to secure transparency and reproducibility of findings

Some misunderstandings & issues with quality of recent COVID-19 preprints and publications (public debates, fast review track)



# Sharing & using preprints is more popular than ever



Source: N Fraser, B. Kramer (2020). [https://github.com/nicholasmfraser/covid19\\_preprints](https://github.com/nicholasmfraser/covid19_preprints)

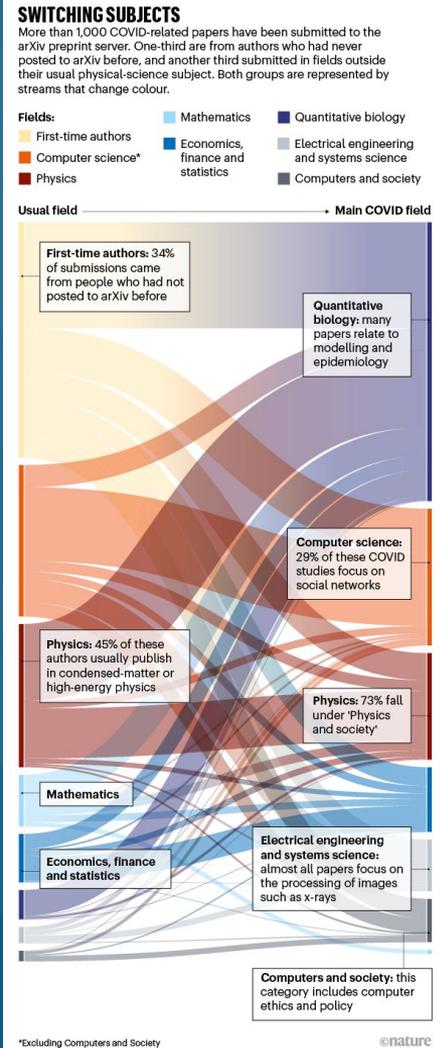
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# Moving on to Covid-19 related research topics

- Several funders offer additional resources for pandemic research, e.g. European Commission
- Enormous growth of research outputs on the novel coronavirus: 22K+ acc. PubMed; 46K+ articles, 7,800 preprints, 1K books/chapters acc. to Dimensions (as of 17 June 2020)
- Shift of research topics for thousands of researchers,
- Strong focus on biomedical topics but also societal and economic impacts

Image source: Gibney, E. (2020). The pandemic mixed up what scientists study – and some won't go back. *Nature*, 582(7811), 173–174.  
<https://doi.org/10.1038/d41586-020-01525-z>



# Customized discovery & guidance

**LitCovid** Ex: Remdesivir

GENERAL MECHANISM TRANSMISSION DIAGNOSIS TREATMENT PREVENTION CASE REPORT FORECASTING

LitCovid is a curated literature hub for tracking up-to-date scientific information about the 2019 novel coronavirus. It provides access to a wide range of scientific information, including sequences, expression data, and proteins.

**COVID-19 Data Portal** **BETA**

Sequences Expression Proteins

**WEEKLY PUBLICATIONS**

Week	Publications
Jan 10 - Jan 19	1
Jan 20 - Jan 26	2
Jan 27 - Feb 02	3
Feb 03 - Feb 09	4
Feb 10 - Feb 16	5
Feb 17 - Feb 23	6
Feb 24 - Mar 01	7
Mar 02 - Mar 08	8
Mar 09 - Mar 15	9
Mar 16 - Mar 22	10

**COUNTRIES MENTIONED IN ABSTRACTS**

Accelerating research through

Research outcomes  Search by title, author, abstract, DOI, orcid...

Advanced Search

SUMMARY	PUBLICATIONS	RESEARCH DATA	SOFTWARE
	48,082	3,256	283

This portal provides access to publications, research data, projects and software! Virus Disease (COVID-19). The OpenAIRE COVID-19 Gateway aggregates COVID-19 data sources and additional sources. All COVID-19 related research results are in projects, providing a contextualized navigation.

Curated by: Alessia Bardi, Iryna Kuchma, Evgeny Bobrov, Ivana Trucco

Created: 16-Mar-2020 Members: 23  
Projects: 130 Content Providers: 14   
Linked to 7 Zenodo Communities

**Sequences**

Raw and assembled sequences related to the COVID-19 outbreak, including outbreak isolates and records relating to coronavirus biology. Includes extensive sampling information.

50,242 records >

**Proteins**

Curated functional and classification data on the SARS-CoV-2 protein entries and

**zenodo**

Coronavirus Disease Research Community - COVID-19

Recent uploads

Search Coronavirus Disease Research Community - COVID-19

**June 18, 2020 (1)** **Modelling the progression of COVID19 and the effectiveness of mitigation strategies**  
 Almagor, Jonathan; Picascia, Stefano;  
Multi-layer network agent based model of the progression of the COVID19 infection and its mitigations: lockdowns, social distancing, contact tracing, massive testing.  
Updated on June 18, 2020

**June 18, 2020 (1)** **Ivermectin for Covid-19**  
 Sparavigna, Amelia Carolina;  
Discussion of scholar papers published until June 18, 2020, on ivermectin, and of news that we can find about its use for Covid-19. For what concerns scholar papers, we report among them a preprint posted on 10 June in MedRxiv, which concludes that ivermectin was associated with a reduction in mortality.  
Updated on June 18, 2020

**June 18, 2020 (1)**

**Community**

Coronavirus Disease Research Community - COVID-19

This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate sharing and discovery of information. Although Open Access articles and datasets are recommended, also closed and restricted access research outputs are accepted.

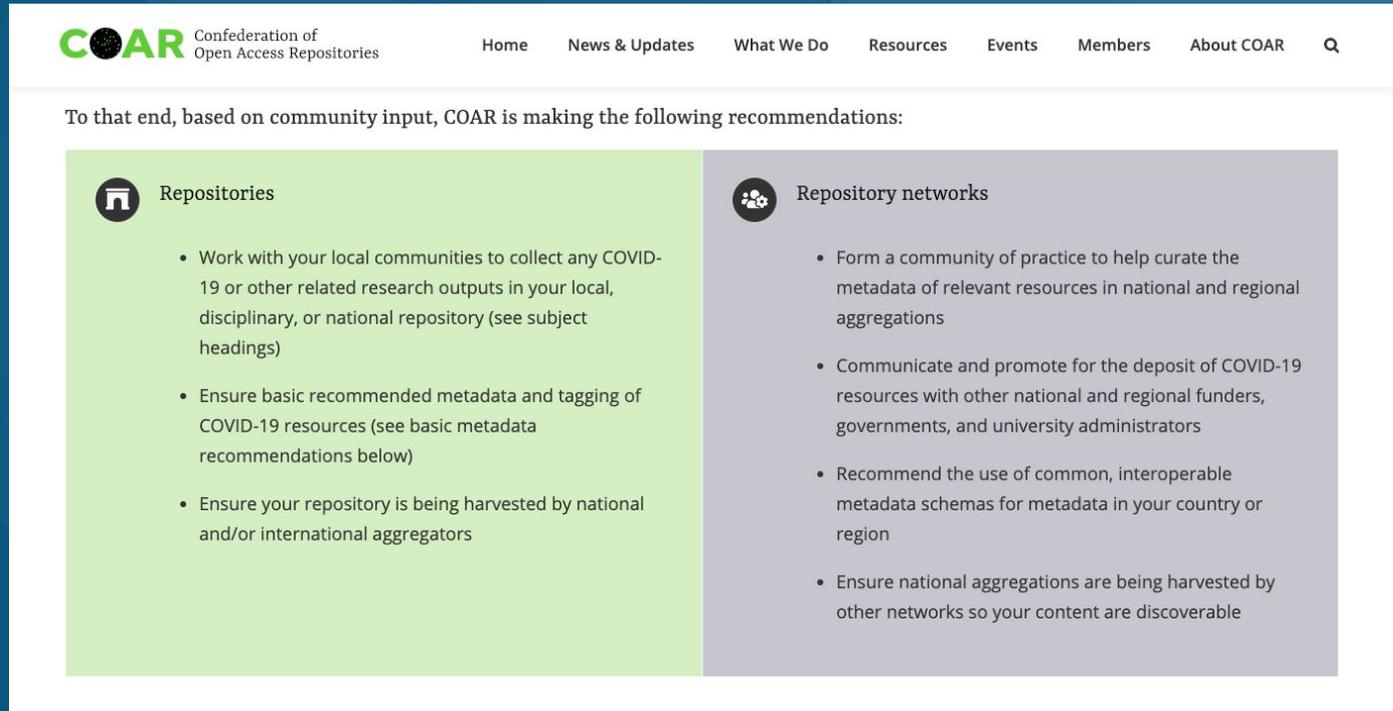


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Sources: <https://www.ncbi.nlm.nih.gov/research/coronavirus/>, <https://www.covid19dataportal.org/>, <https://beta.covid-19.openaire.eu/>, <https://zenodo.org/communities/covid-19>

# Enabling discovery

## COAR Recommendations for COVID-19 resources in repositories



The screenshot shows the COAR website's navigation bar with the logo and menu items: Home, News & Updates, What We Do, Resources, Events, Members, About COAR, and a search icon. Below the navigation bar, a text block states: "To that end, based on community input, COAR is making the following recommendations:". This is followed by two columns of recommendations. The left column, titled "Repositories" with a building icon, lists three bullet points: "Work with your local communities to collect any COVID-19 or other related research outputs in your local, disciplinary, or national repository (see subject headings)", "Ensure basic recommended metadata and tagging of COVID-19 resources (see basic metadata recommendations below)", and "Ensure your repository is being harvested by national and/or international aggregators". The right column, titled "Repository networks" with a group of people icon, lists four bullet points: "Form a community of practice to help curate the metadata of relevant resources in national and regional aggregations", "Communicate and promote for the deposit of COVID-19 resources with other national and regional funders, governments, and university administrators", "Recommend the use of common, interoperable metadata schemas for metadata in your country or region", and "Ensure national aggregations are being harvested by other networks so your content are discoverable".

COAR Confederation of Open Access Repositories

Home News & Updates What We Do Resources Events Members About COAR Q

To that end, based on community input, COAR is making the following recommendations:

### Repositories

- Work with your local communities to collect any COVID-19 or other related research outputs in your local, disciplinary, or national repository (see subject headings)
- Ensure basic recommended metadata and tagging of COVID-19 resources (see basic metadata recommendations below)
- Ensure your repository is being harvested by national and/or international aggregators

### Repository networks

- Form a community of practice to help curate the metadata of relevant resources in national and regional aggregations
- Communicate and promote for the deposit of COVID-19 resources with other national and regional funders, governments, and university administrators
- Recommend the use of common, interoperable metadata schemas for metadata in your country or region
- Ensure national aggregations are being harvested by other networks so your content are discoverable

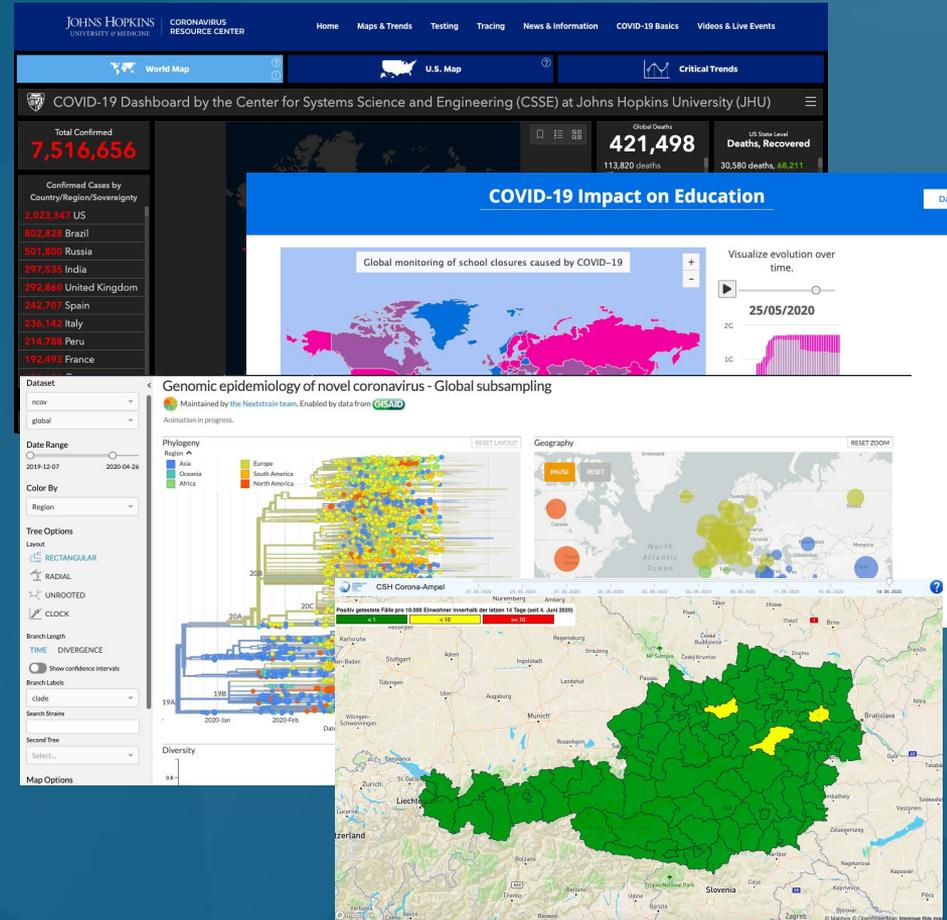
Source: <https://www.coar-repositories.org/news-updates/covid19-recommendations/>

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# A glut of dashboards

- Communicate basic indicators to the general public.
- Typically based on open data.
- Prominent examples e.g. Johns Hopkins COVID-19 Dashboard, worldometers.info
- Some more specialized targeting biomedical staff, e.g. Nextstrain
- During reopening: e.g. monitoring **number** of cases per 10K, mobile apps



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Sources: <https://coronavirus.jhu.edu/map.html>; <https://en.unesco.org/covid19/educationresponse>;  
<https://nextstrain.org/ncov>, <https://csh.ac.at/covid19/corona-ampel/>

# Governmental interventions

The screenshot displays the 'Our World in Data' website. The main article is titled 'Policy Responses to Pandemic' by Hannah Ritchie, Max Roser, Esteban Ortiz-Ospina, and Joe Hasell, last updated on June 18, 2020. The article discusses the Oxford COVID-19 Government Response Tracker, which tracks various policy responses like school closures and travel restrictions. A world map titled 'School closures during the COVID-19 pandemic, Jun 18, 2020' is shown, with a legend indicating four categories: 'No data' (grey), 'No measures' (light blue), 'Recommended' (yellow), and 'Required (only at some levels)' (orange) and 'Required (all levels)' (red). The map shows that many countries, particularly in Europe and North America, have implemented required closures. Below the map, there are navigation options for 'MAP', 'DATA', and 'SOURCES', and a note that the policy categories shown may not apply at all sub-national levels.

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Sources: <https://www.bsg.ox.ac.uk/research/research-projects/coronavirus-government-response-tracker>,  
<https://ourworldindata.org/policy-responses-covid>

# Governmental interventions:

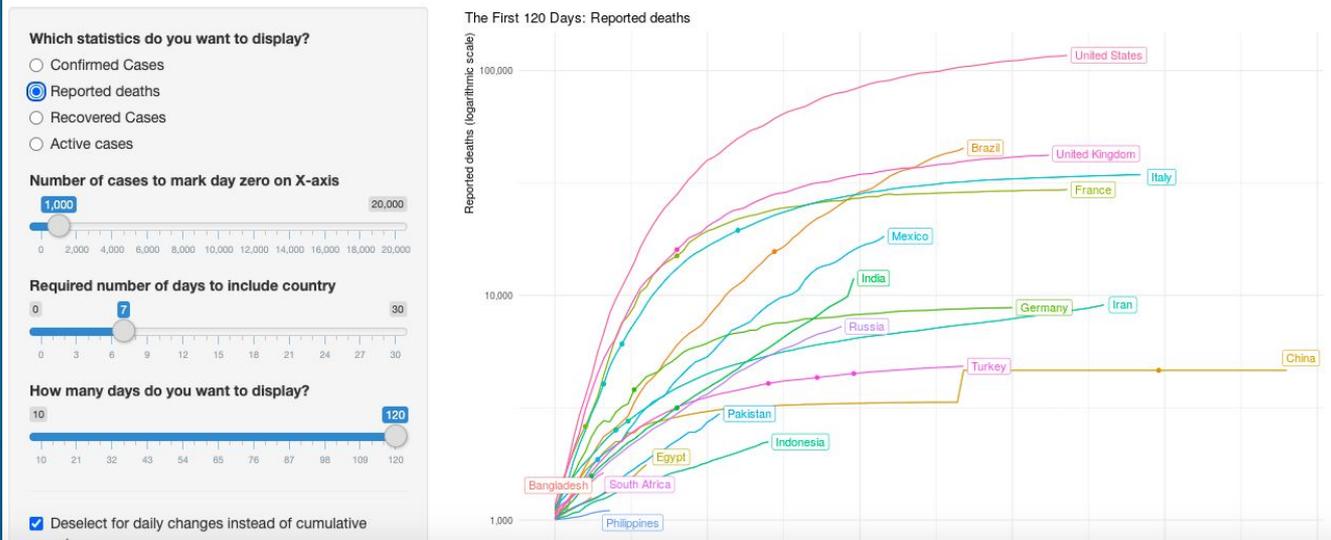
e.g. general lockdown

## Explore the Spread of Covid-19

This display is based on data

- from the [Johns Hopkins University CSSE team](#) on the spread of the SARS-CoV-2 virus
- from the [ACAPS governmental measures database](#) and
- from the [World Bank](#).

It has been inspired by the displays created by John Burn-Murdoch for the Financial Times. Read this [blog post](#) about using the visualizations and hover over the plot with your mouse to get more information about the respective data point.



Source: <https://trr266.wiwi.hu-berlin.de/shiny/tidycovid19/>

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# Managing research data essential

- Core challenges: critical need for data sharing, no universally adopted infrastructure and standards for collecting, documenting, sharing and discovery of COVID-19 related data (and related information)  
>> Guidance and investment needed to create incentives and support measures, a role for governments, research funders and research institutions
- RDA COVID-19 Guidelines and Recommendations, 5th release (final draft), 28 May 2020, commenting phase until 8 June 2020, dev. by COVID-19 working group, (440+ members from multiple disciplines)
- Recommendations: 1) Coordinated, cross-jurisdictional efforts to foster global Open Science, 2) Infrastructure Investment & Economies of Scale, 3) FAIR and Timely, 4) Data Management Planning, 5) Metadata, 6) Documentation, 7) Use of Trustworthy Data Repositories, 8) Publications / Data Publication



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Source: <https://www.rd-alliance.org/group/rda-covid19-rda-covid19-omics-rda-covid19-epidemiology-rda-covid19-clinical-rda-covid19-0>

# Towards a new normal

Open knowledge and data sharing are essential for understanding and mitigating the pandemic.

Openness & securing the records of science is a means to increase transparency, reproducibility, accountability and trust in research.

**Together we can expand & secure the  
current drive  
to open up research!**



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Image source: [https://www.flickr.com/photos/bernd\\_thaller/38577026005](https://www.flickr.com/photos/bernd_thaller/38577026005)

# Scholarly Communication

the coronavirus edition (if there is one)

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Dr. Giannis Tsakonas, Director Library & Information Center,  
University of Patras, Greece



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# Drops, streams & oceans

An unanticipated explosion of availability of content through every road, Green and Gold OA.

Initiatives lead publishers pledging 'gratis' access to paywalled content.

Extended use of preprint servers; the virtues of transparency.

Balance between velocity and responsibility.

'Gratis' not a contribution to openness; not a "indulgentia".

Issues remain and can not be masked.

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Photo by Alexandre Lecocq on Unsplash

# “No! You cannot!”

Access to educational material revealed the ‘Draconian’ nature of copyright legislation.

With national implementation of DSM still pending many countries were locked down.

Text and data mining in dumps. How research libraries can help?

<https://zenodo.org/record/3801114>

Call for pledging openness in patents and vaccine research.

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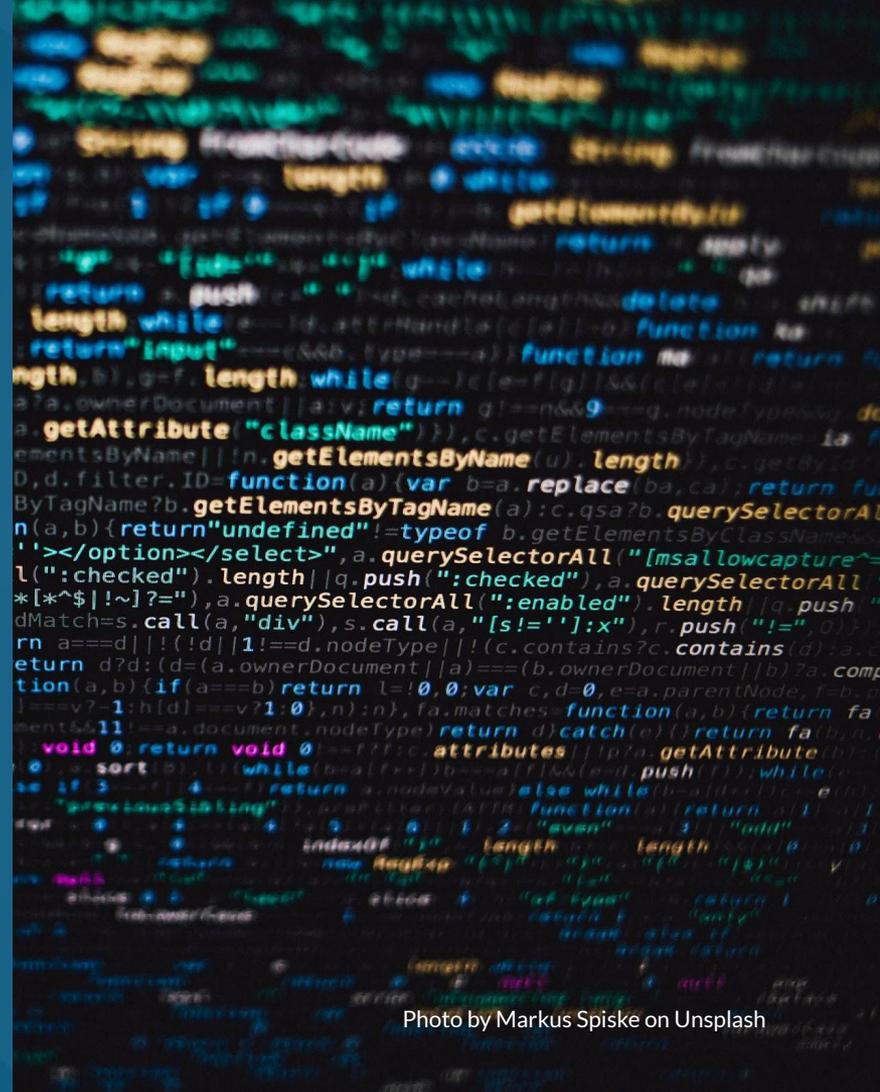


Photo by Markus Spiske on Unsplash

# Welcome to new beginnings

In principle, we can not afford to backtrack; maintain this momentum.

Populate OS; create a new sustainable “habitat” for scholarly communication.

Institutions to claim more from the legislative bodies in terms of Openness; invest in Open Educational Resources.

Rethink the concept of ownership in parallel to infrastructures and services.

No changes without cost.



# Q&A

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