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 Claeyssens, 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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Thank you to our sponsors!

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

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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

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CALL FOR PAPERS

"Building Trust with Research Libraries"

LIBER 2020 BELGRADE
24-26 JUNE

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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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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 R0 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/chiotsrun/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 heros but also under fire

by populist media

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

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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

Research essentials – really anything new?

Discovery and selection of relevant information and data

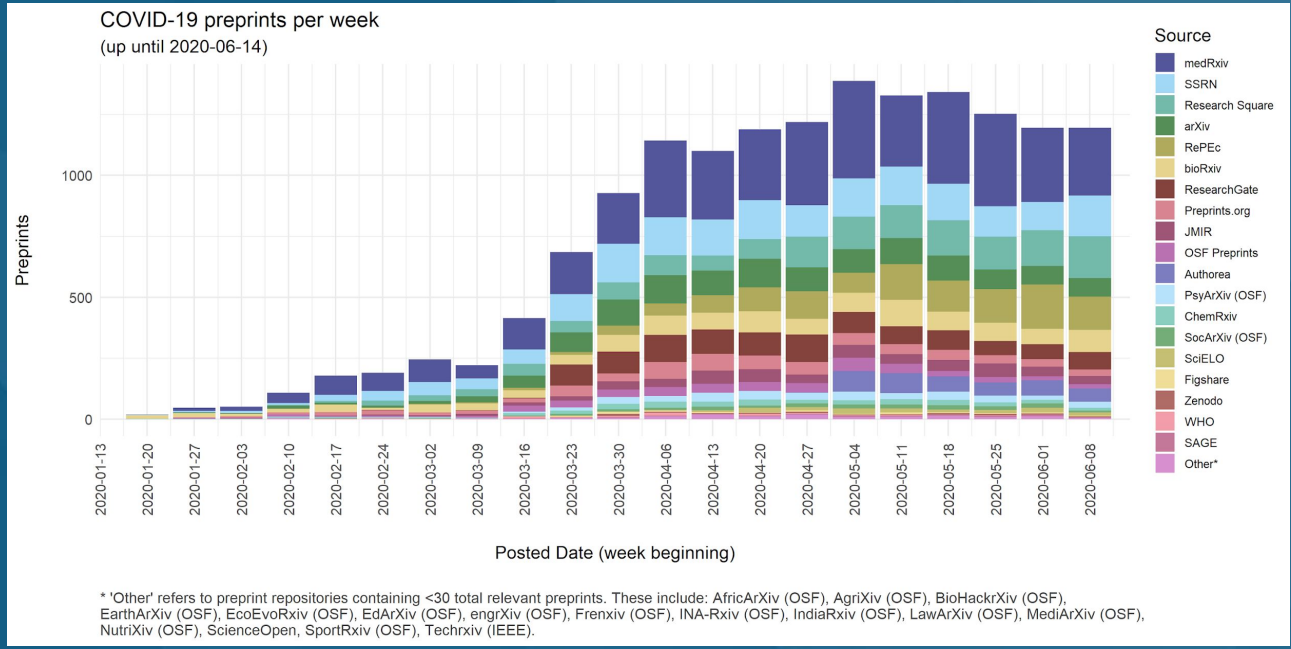
Swift access to data and full text more essential than ever

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

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

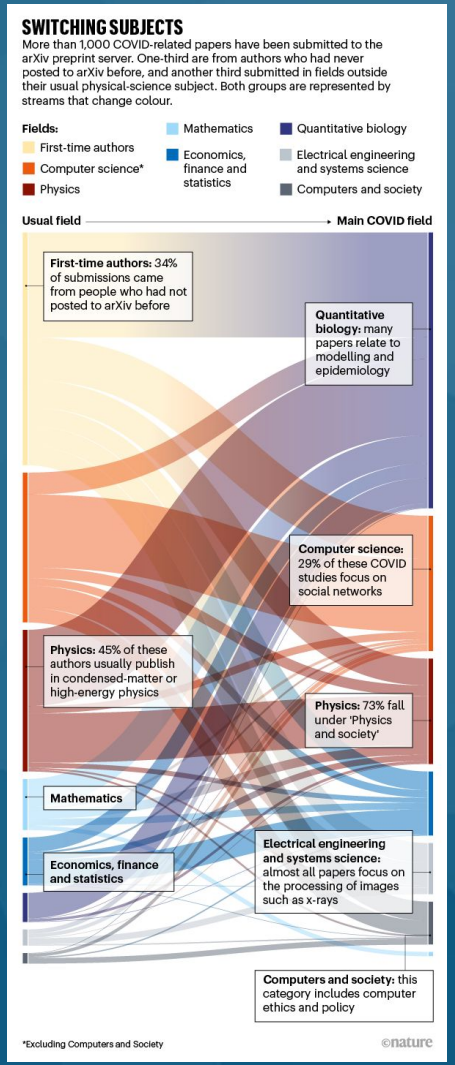


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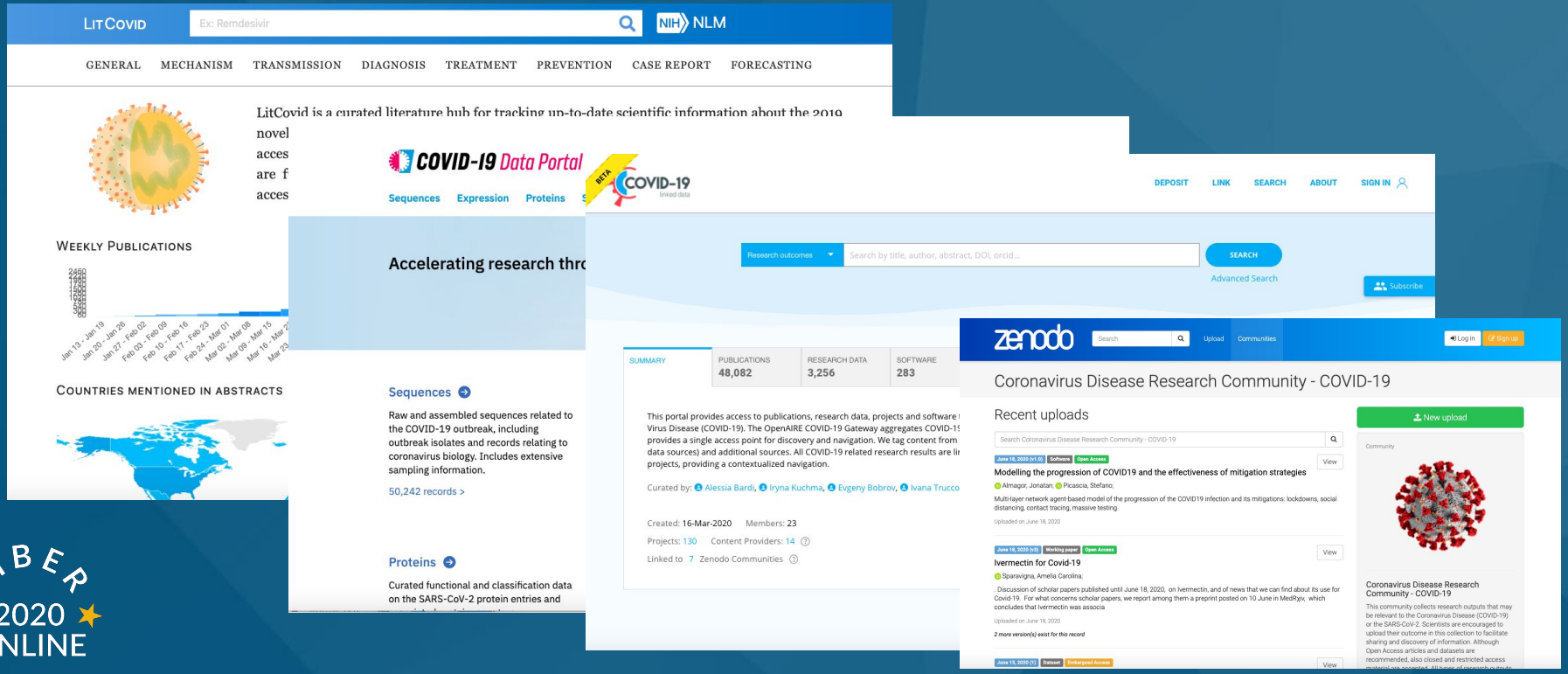
Image source: Gibney, E. (2020). The pandemic mixed up what scientists study – and some won't go back. Nature, 582(7811), 173–174. https://doi.org/10.1038/d41586-020-01525-z

Customized discovery & guidance



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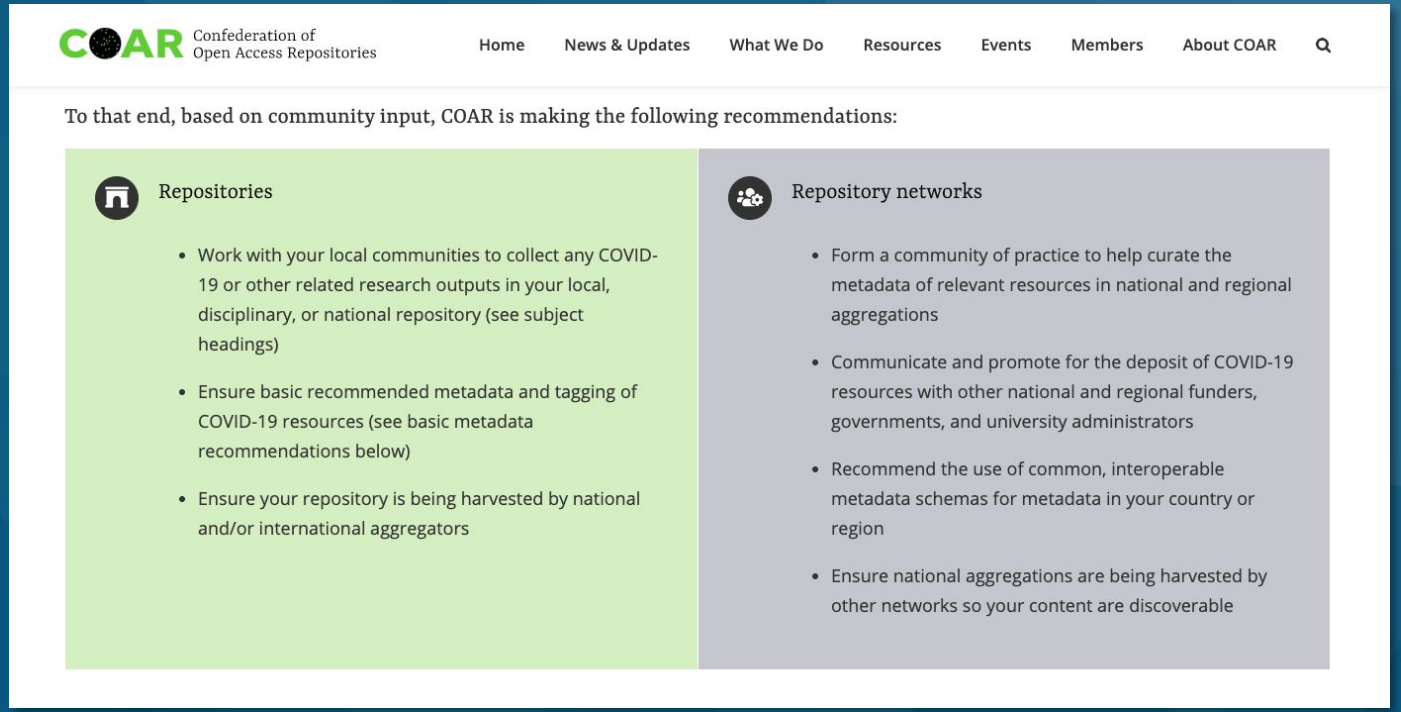
Sources: https://www.ncbi.nlm.nih.gov/research/coronavirus/, https://www.covid19dataportal.org/, https://beta.covid-19.openaire.eu/, https://zenodo.org/communities/covid-19

Enabling discovery

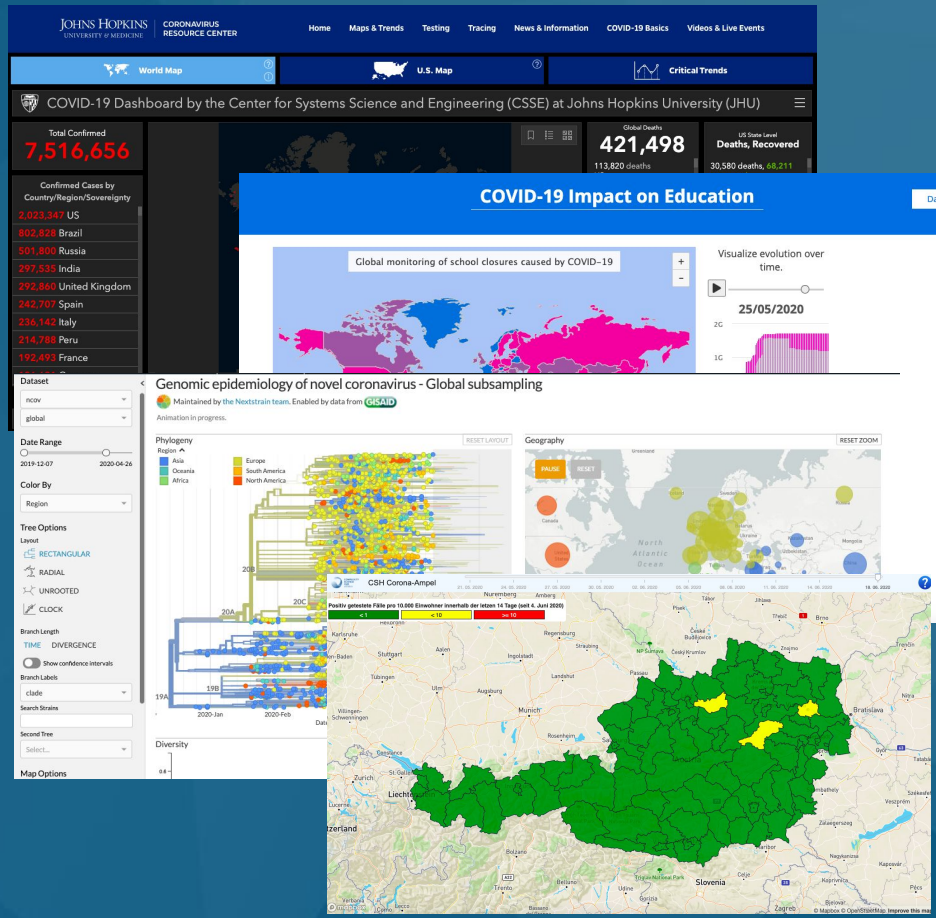
COAR Recommendations for COVID-19 resources in repositories



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

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

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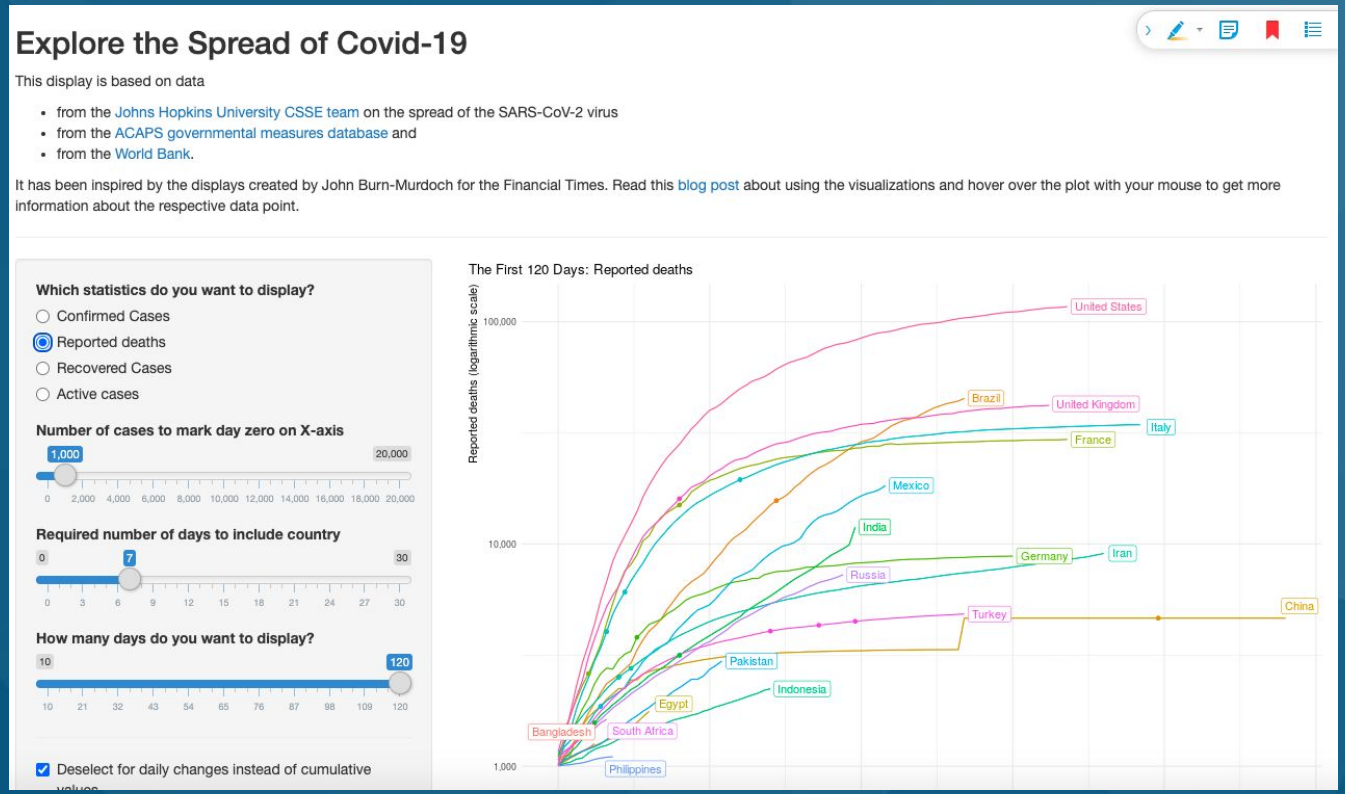
Sources: https://www.bsg.ox.ac.uk/research/research-projects/coronavirus-government-response-tracker, https://ourworldindata.org/policy-responses-covid

Governmental interventions:

e.g. general lockdown



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

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

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

Scholarly Communication

the coronavirus edition (if there is one)

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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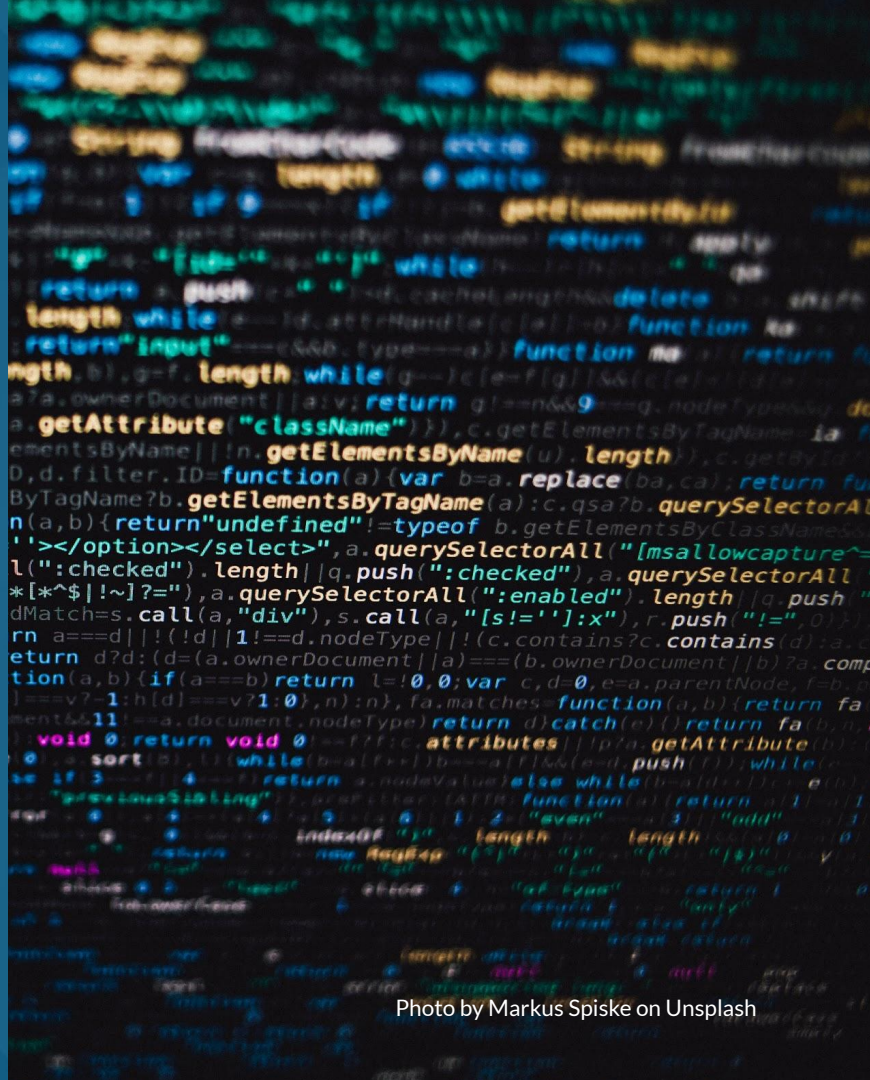

Photo by Markus Spiske on Unsplash

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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