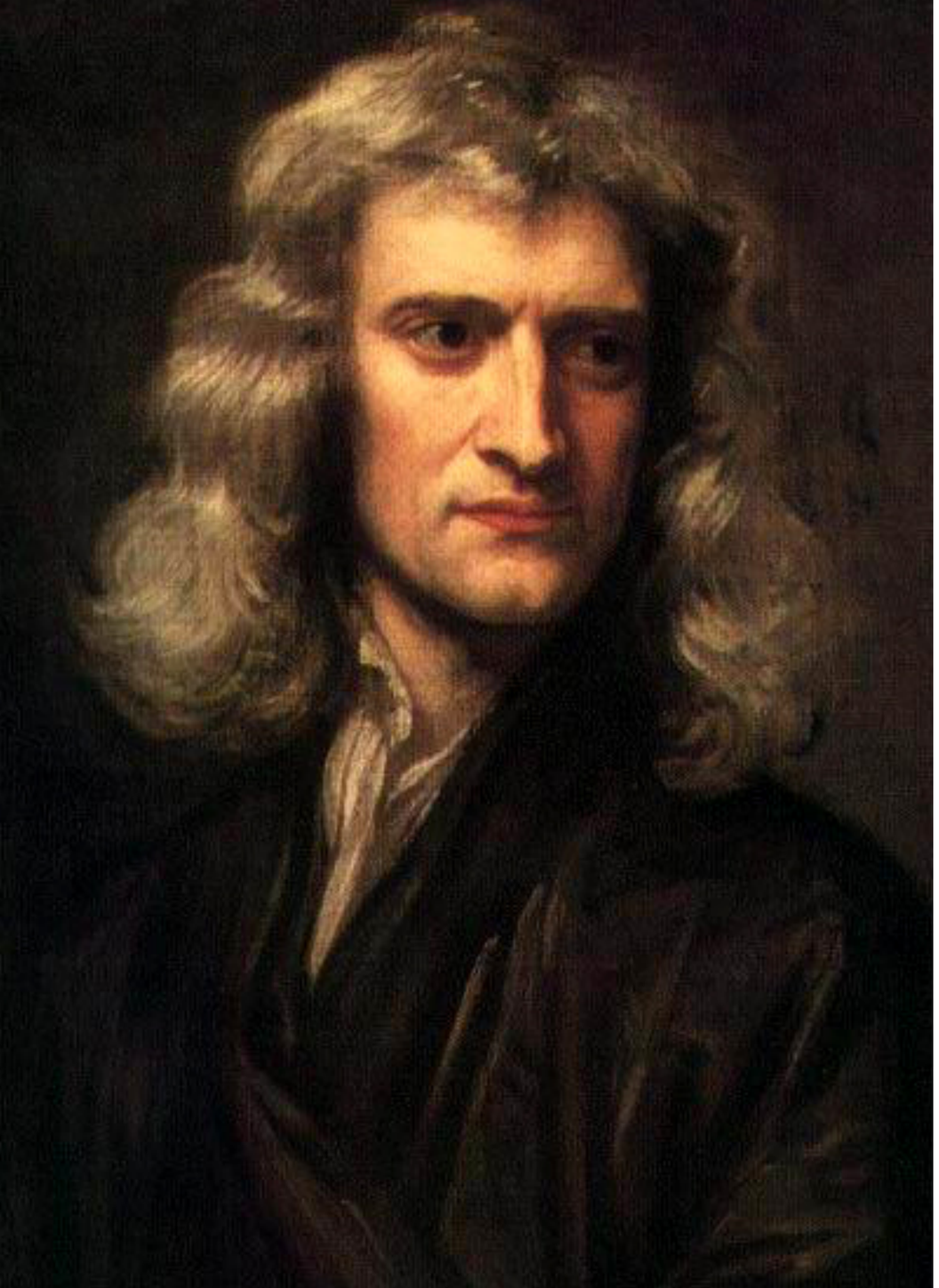
universität innsbruck

Organizing in Times of Crisis: The Case of Covid-19

Class 8: Open Science, Data and Commons

Leonhard Dobusch

April 2020
University of Innsbruck



> If I have seen further it is by **standing on the shoulders of Giants**.
>
> Isaac Newton

V V V

Mertonian Science Communism

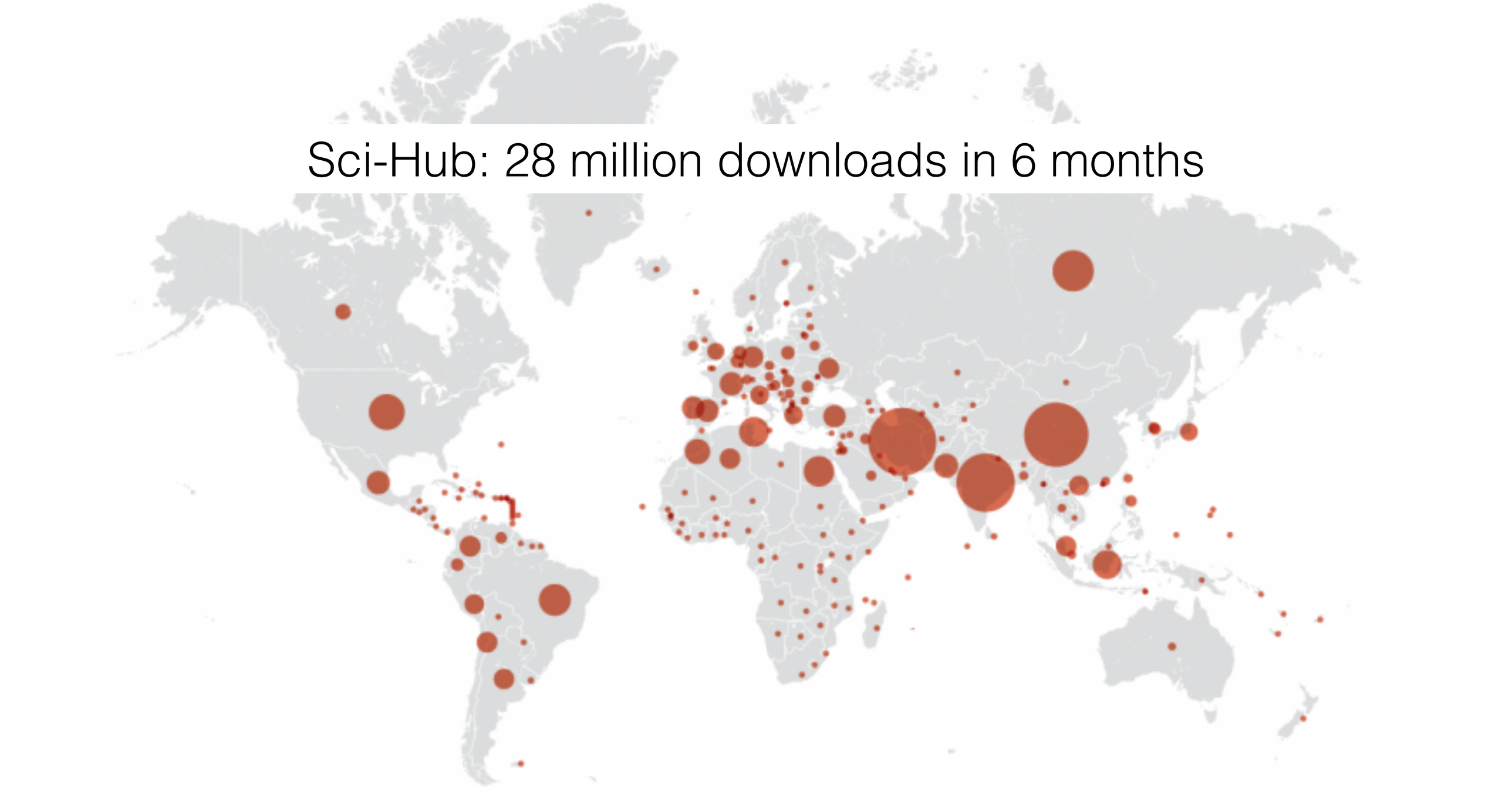
All scientists should have *common ownership* of scientific goods, to promote *collective collaboration*; secrecy is the opposite of this norm.

Merton (1942)

> I hereby assign to [scientific publisher] exclusively all my right, title and interest in said article, including without limitation the copyright therein.

Source: standard copyright form
of a large academic publisher

Sci-Hub: 28 million downloads in 6 months



Source: http://www.sciencemag.org/news/2016/05/survey-most-give-thumbs-pirated-papers

Sci-Hub ideas

knowledge to all

We fight inequality in knowledge access across the world. The scientific knowledge should be available for every person regardless of their income, social status, geographical location and etc.

Our mission is to remove any barrier which impeding the widest possible distribution of knowledge in human society!

no copyright

We advocate for cancellation of **intellectual property**, or copyright laws, for scientific and educational resources.

Copyright laws render the operation of most online libraries illegal. Hence many people are deprived from knowledge, while at the same time allowing rightholders to have a huge benefits from this. The copyright fosters increase of both informational and economical inequality.

open access

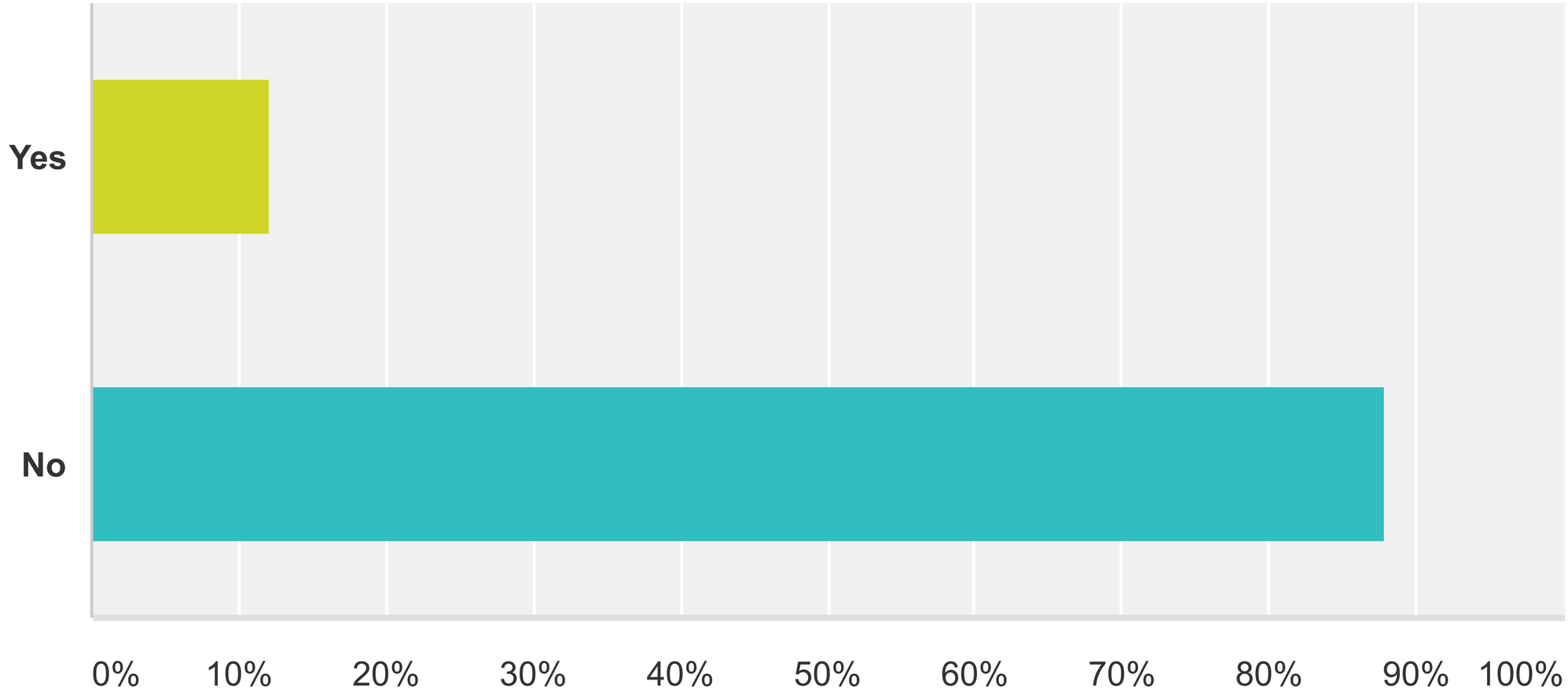
The **Sci-Hub** project supports **Open Access** movement in science. Research should be published in open access, i.e. be free to read.

The Open Access is a new and advanced form of scientific communication, which is going to replace outdated subscription models. We stand against unfair gain that publishers collect by creating limits to knowledge distribution.

Source:Screenshot http://www.sci-hub.cc/

Do you think it is wrong to download pirated papers?

Answered: 10,841 Skipped: 96



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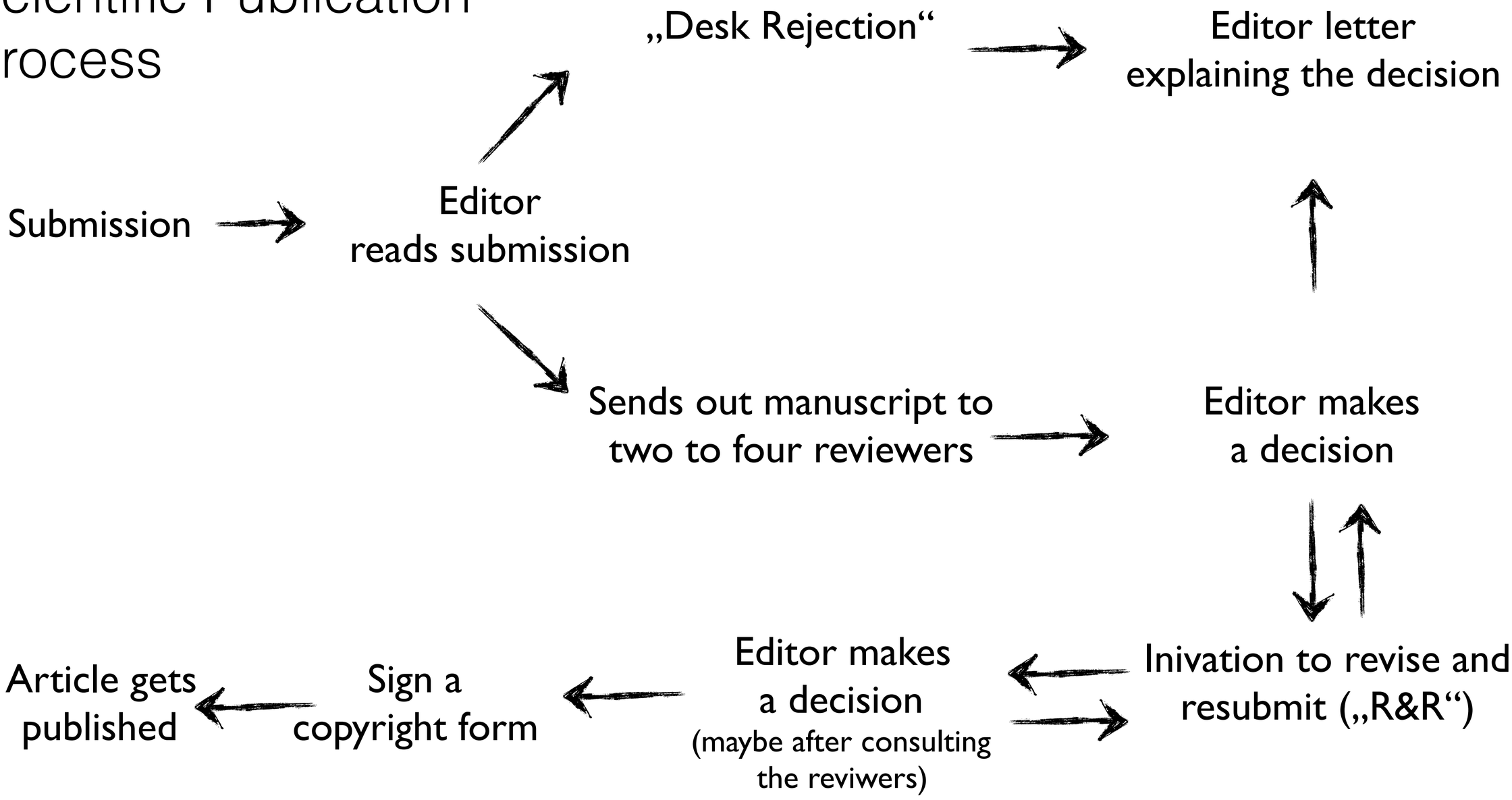
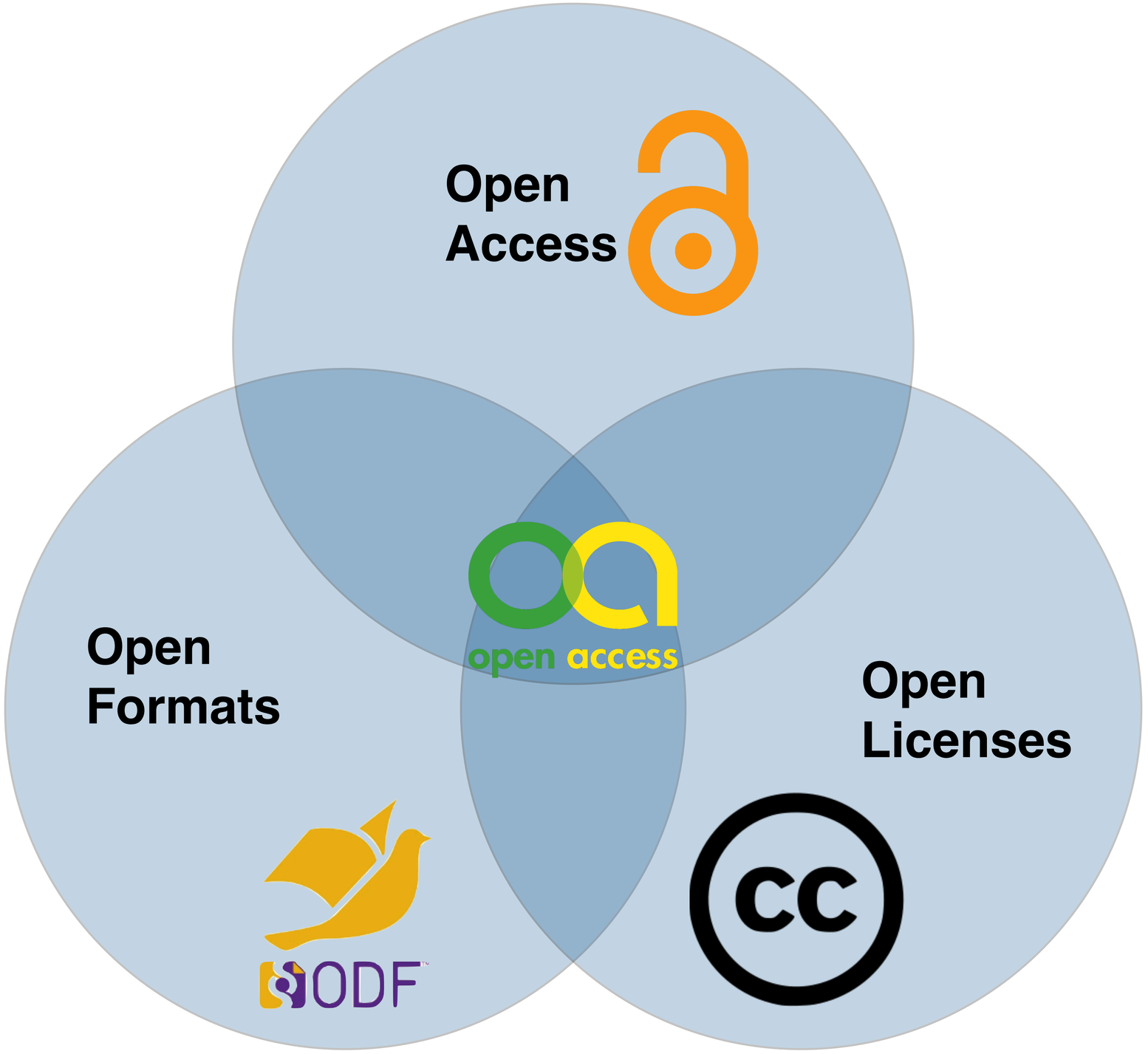
Scientific Publication Process



Scientific Publication Process

Sign a copyright form

Article gets published


Open
Access
open access
Open
Formats
ODF
Open
Licenses
cc

Open Access Mandates by Funding Institutions

European Research Council
Executive Agency

EUROPEAN COMMISSION
Directorate-General for Research & Innovation

Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020

NIH Public Access Policy

PLOS | Open for Discovery

Open Access Publishing (peer-reviewed)

Open Library of Humanities

ELSEVIER

Lingua

>>

Glossa
a journal of general linguistics

Context: https://governancexborders.com/2015/11/07/open-access-and-the-power-of-editorial-boards-why-elsevier-plays-hardball-with-deviant-linguists/

From Open Access to Open Science

OPEN SCIENCE

- Open Access
- Open (Research) Data / Materials
- Open Source / Open Methods
- Open Instructions
- Open Education
- Open Evaluation
- Citizen Science

> Open Science is the idea that scientific knowledge of all kinds should be openly shared as early as is practical in the research process.

Katja Mayer

Foto: Ralf Rebmann, https://commons.wikimedia.org/wiki/File:Katja_Mayer_1.jpg, CC BY-SA 4.0 International

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Screenshot:https://www.who.int/emergencies/diseases/novel-coronavirus-2019/global-research-on-novel-coronavirus-2019-ncov

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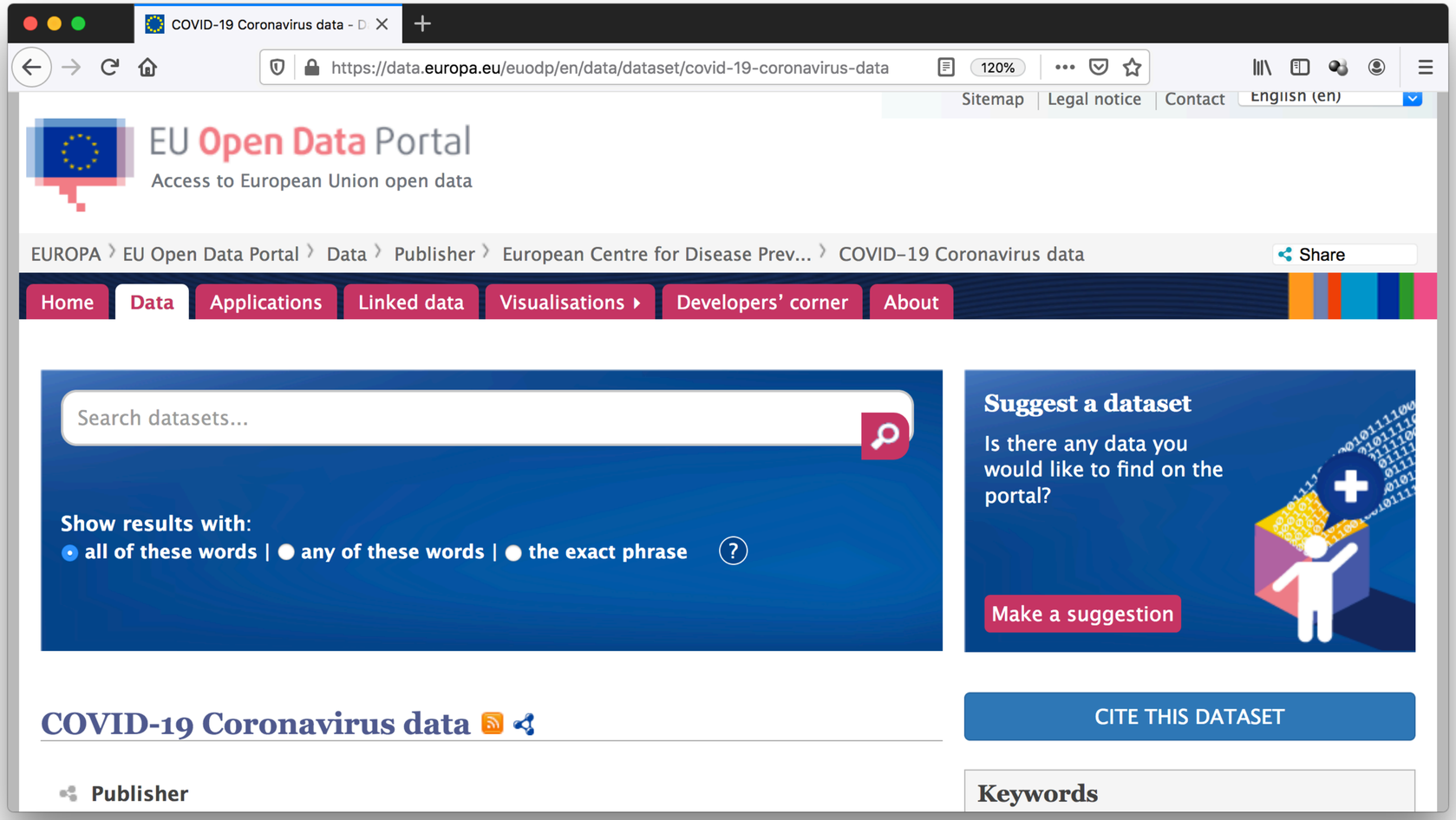

Screenshot: https://data.europa.eu/euodp/en/data/dataset/covid-19-coronavirus-data

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Open Educational Resources

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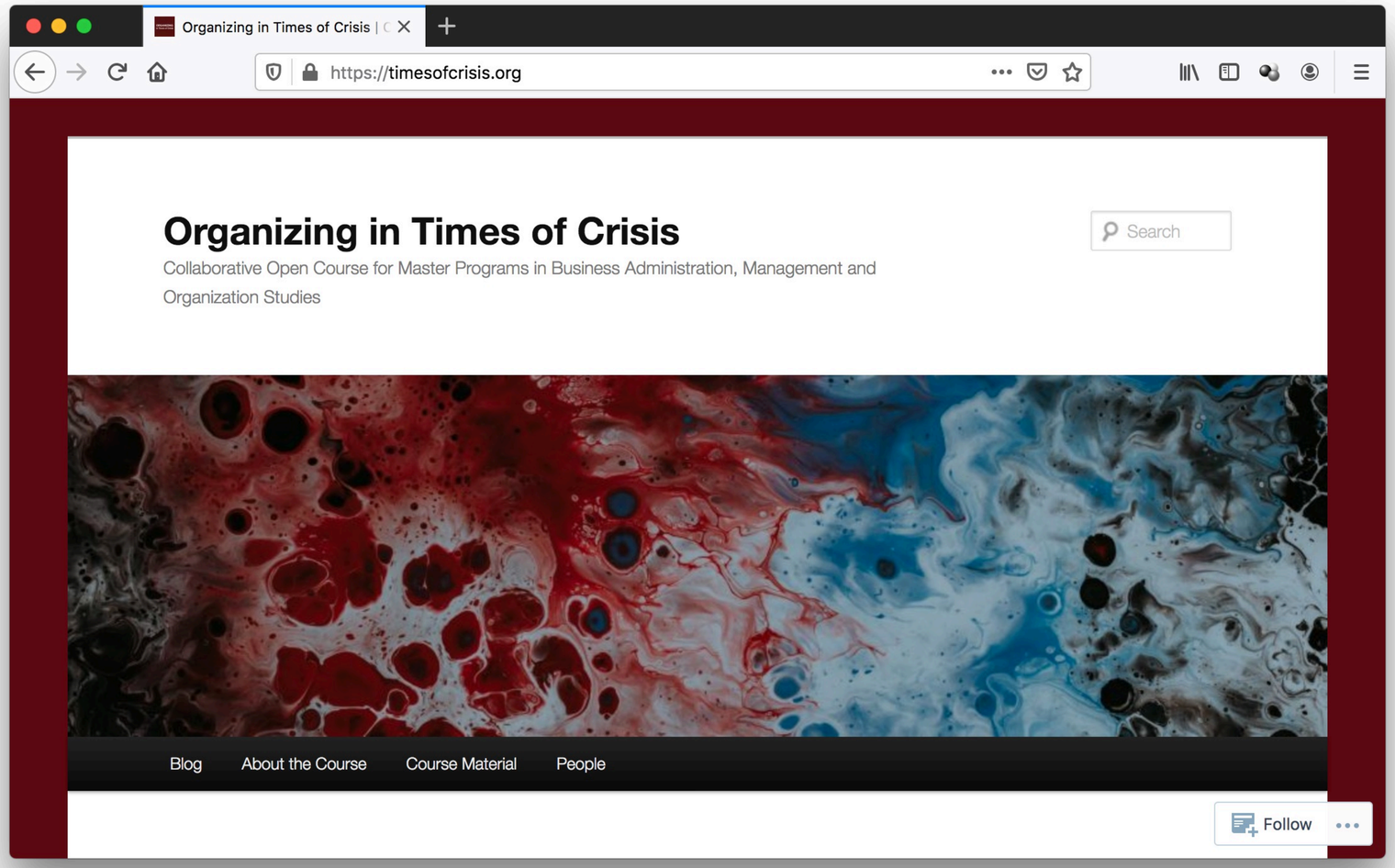

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arXiv.org

Preprint server

- Scientific peers
- Media audiences

Credit: CC-BY-SA AJ Cann, via https://www.fosteropenscience.eu/learning/open-peer-review

Open peer review

- Open identities
- Open reports
- Open participation

OPEN SCIENCE

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- Open Education
- Open Evaluation
- Citizen Science

open science

How to organize science more openly?

Organizing Open Strategies in Science

Goals

- Sharing and collaboration
- Transparency and reproducibility
- Re-usability and new applications
- Societal participation and feedback loops

Levels

Source: Presentation by Maximilian Heimstädt and Katja Mayer

Source: Taken from Brian Nosek https://osf.io/r9v3p/ and https://cos.io/blog/strategy-culture-change

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governancexborders.com

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