

**The
Alan Turing
Institute**


From culture to computation: mapping my open research journey

Data Hazards, Ethics & Responsibility

10 March 2023

Anne Lee Steele

she/her



What's a community manager doing here?

Mapping my open journey

2011 - 2017
Studying anthropology & community-led development

2017
Followed open source investigations (#OSINT)

2019
Joined "Frictionless Fellows" program at Open Knowledge Foundation

2018
Started using open source tools for data journalism

2021
Joined Wikimedia Deutschland "Unlock" Accelerator

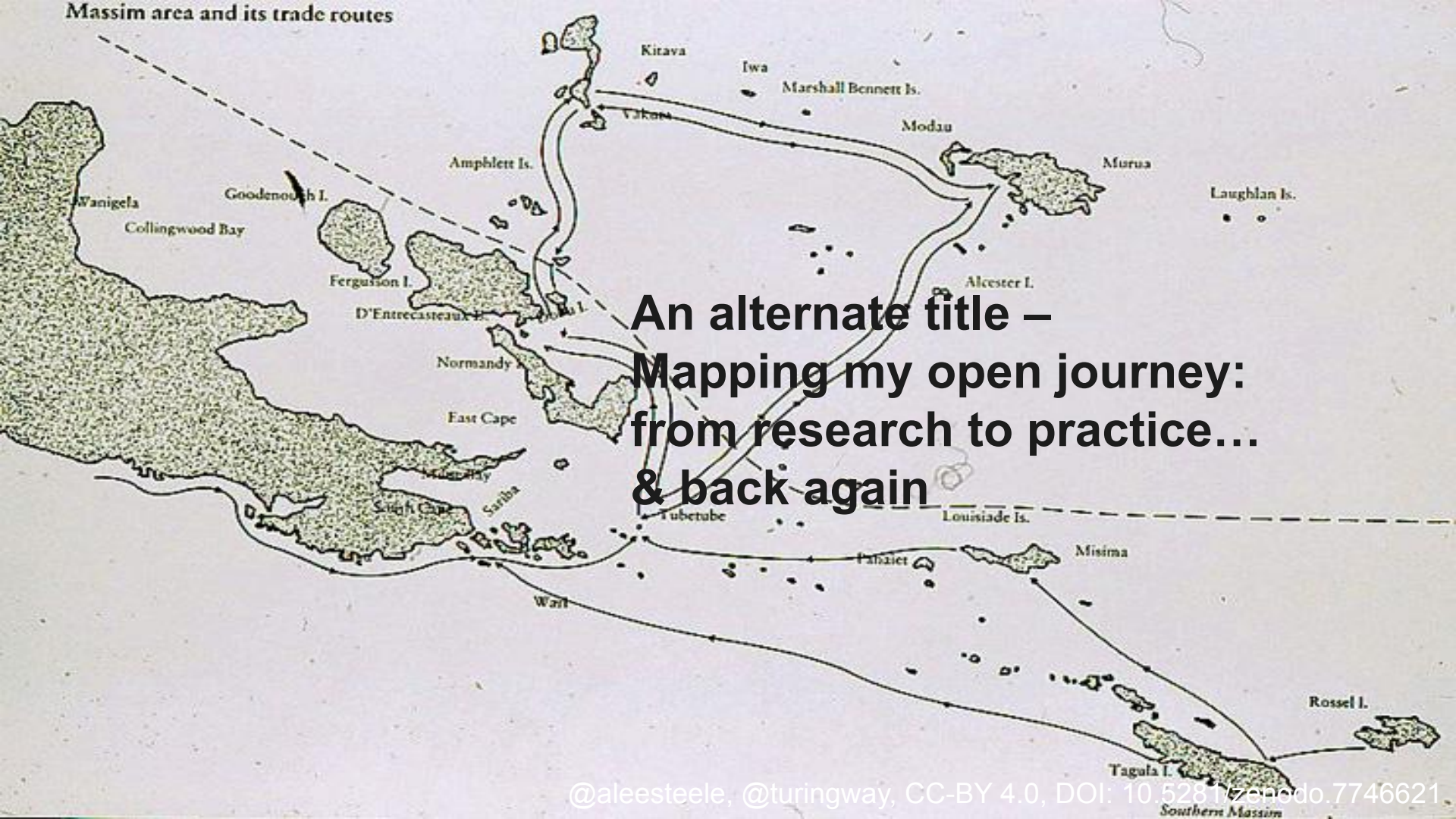
2020
Conducted ethnographic study of OpenStreetMap community

???

2021
Joined Fellowship at Internet Society

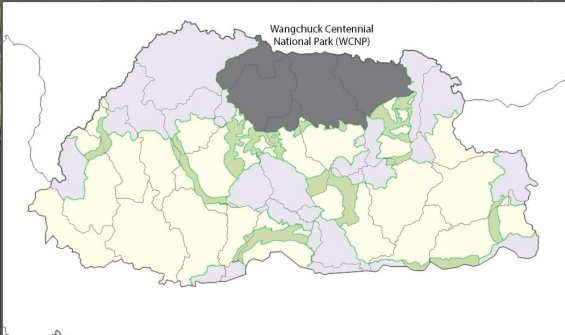
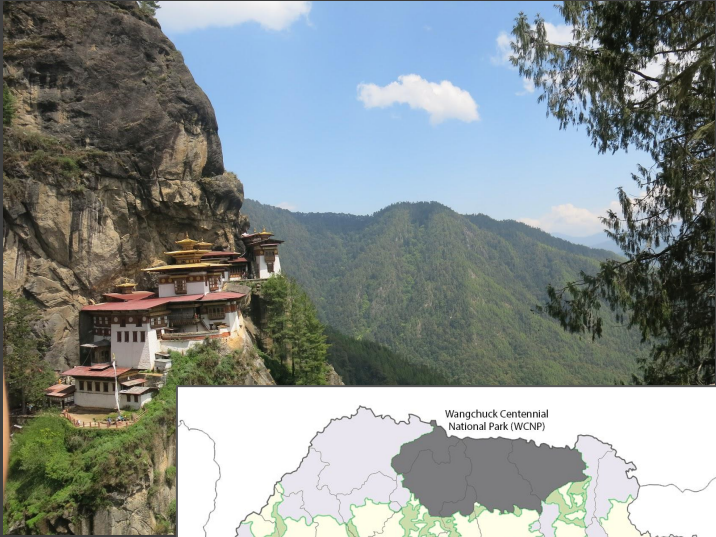
2022
Joined *The Turing Way* as Community Manager

Massim area and its trade routes



**An alternate title –
Mapping my open journey:
from research to practice...
& back again**

Beginnings: Anthropology & Community-led development



- Anthropologists study “culture” within communities (defined broadly!)
- Connecting individual experiences to wider processes (small → big)
 - Rituals, Kinship, Belonging
 - Social norms within communities → Societies at large
 - Example: social/economic “capital”
- Focused on how communities govern natural resources Bhutan & Nepal

Myanmar



CSIS-iLab

The Dracopoulos Ideas Lab is CSIS's internal digital agency for web development, video, and design.

Washington, DC <http://csis.org/program/ideas-lab> @CSIS ilabmedia@csis.org Verified

Overview Repositories 56 Projects Packages People 4

Pinned

highcharts-templates Public
Reusable templates for the HighCharts library
JavaScript ☆ 3

mapbox-custom Public
Custom map applications made with CARTO and Mapbox
<https://csis-ilab.github.io/mapbox-custom/>
JavaScript 👍 4

Repositories

Find a repository... Type Language Sort

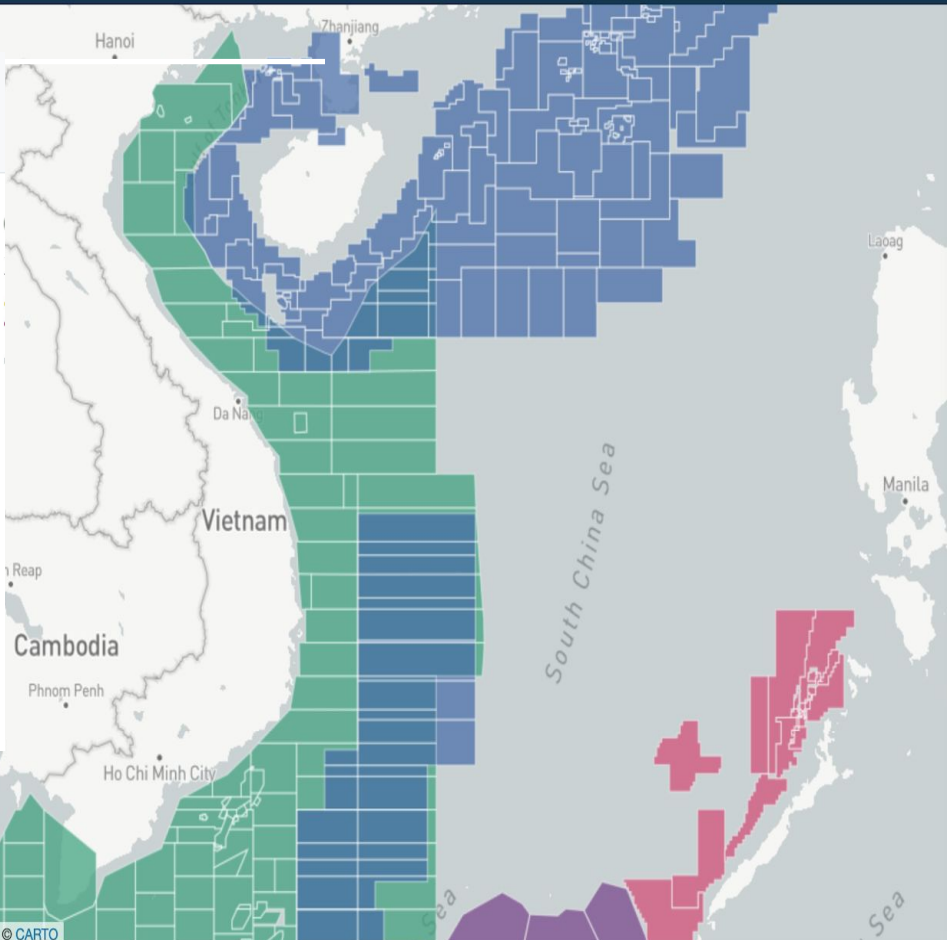
india-states Public
India states microsite project. HTML ☆ 3 👍 2 🔗 1 📄 2 Updated 6 hours ago

js-viz Public
For javascript-based viz. HTML ☆ 3 👍 1 🔗 0 📄 12 Updated 6 hours ago

amti-viz Public
Home to data viz projects for the AMTI website. JavaScript ☆ 0 👍 2 🔗 0 📄 4 Updated 7 hours ago

reconasia_wp Public
The WordPress site for Reconnecting Asia. SCSS ☆ 0 👍 0 🔗 1 📄 4 Updated 6 days ago

hidden-reach-viz Public
 HTML ☆ 0 👍 0 🔗 0 📄 0 Updated 12 days ago



Energy Exploration and Development

The South China Sea holds an estimated 190 trillion cubic feet of natural gas and 11 billion barrels of oil in proved and probable reserves, with much more potentially undiscovered.

OIL AND GAS BLOCKS

Sort oil and gas licensing blocks by country.

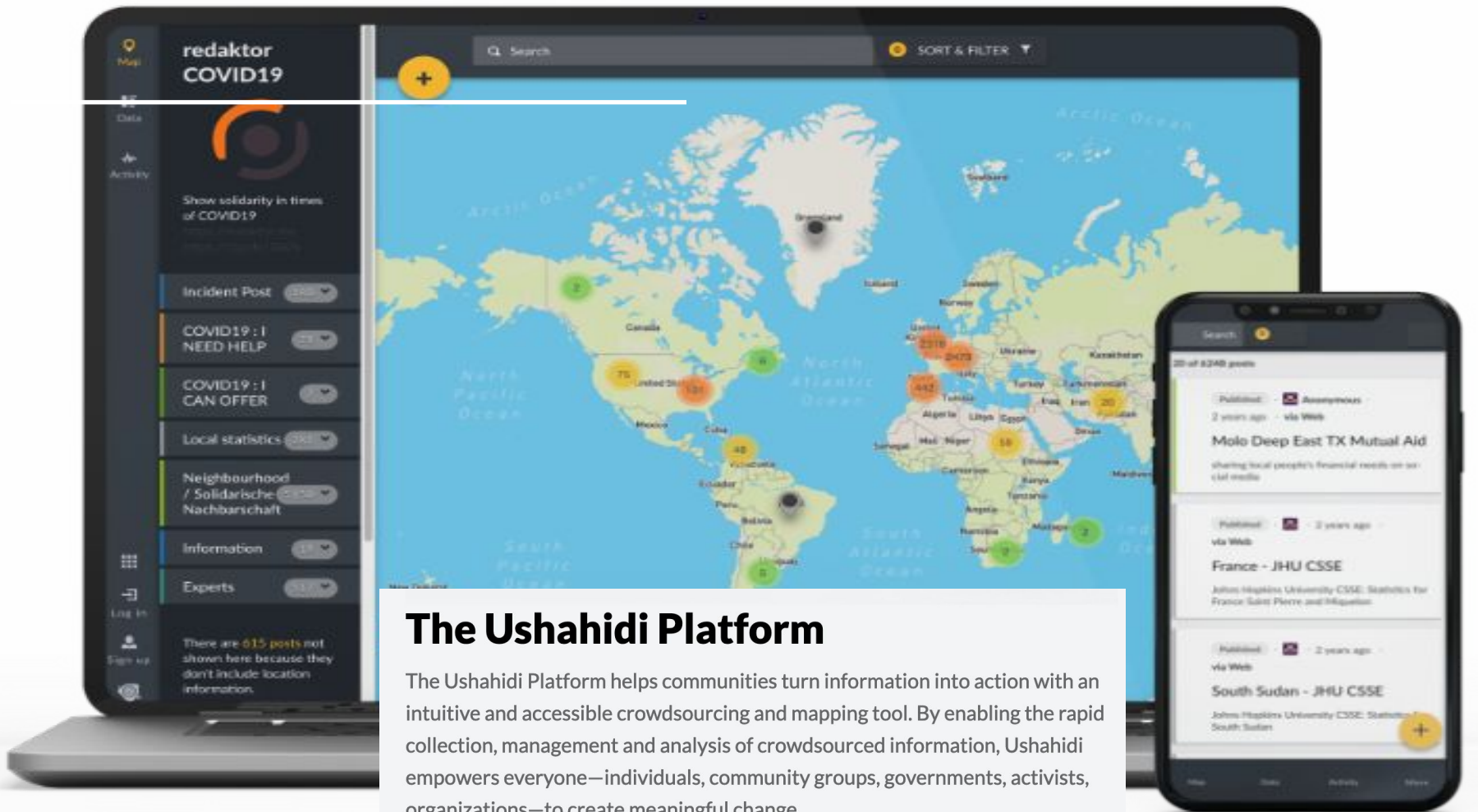
- China
- Vietnam
- Malaysia
- Philippines
- Brunei
- Indonesia
- Joint Development Areas

SEARCH

CLAIM LINES

See where blocks lie in relation to regional continental shelf claims and China's nine-dash line.

- Show claim lines
- Hide claim lines



The Ushahidi Platform

The Ushahidi Platform helps communities turn information into action with an intuitive and accessible crowdsourcing and mapping tool. By enabling the rapid collection, management and analysis of crowdsourced information, Ushahidi empowers everyone—individuals, community groups, governments, activists, organizations—to create meaningful change.

bellingcat

Electric substation



Cement factory



Using Citizen Science to Assess
Environmental Damage in the Syrian
Conflict

Finding an open news ecosystem... a community of communities



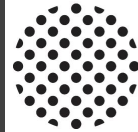
GEOLOCATION

News Nerdery

An international meta organization to foster news nerd collaboration and knowledge sharing

Resources

Chat Archive



OpenNews

We help people strengthen relationships across organizations and build a more equitable future for journalism. Through interactive events and programs, we help peers share knowledge and care for a community grappling with complex problems. [Get involved.](#)

A wide-angle, high-angle photograph of a large, circular assembly hall. The ceiling is covered in a vibrant, multi-colored abstract installation of what appears to be dried flowers or fabric, creating a dense, textured canopy. The room is filled with people seated at long, curved wooden desks arranged in a circular pattern. In the center of the room, a person is standing near a camera on a tripod, suggesting a recording or broadcast is taking place. The overall atmosphere is formal yet dynamic.

**Returning to research:
studying the Human Rights
apparatus**

A large stack of papers, some yellowed and some white, with a white text box overlaid in the center. The papers are slightly blurred, suggesting a shallow depth of field. The text box contains the question "Who was not included in the process?".

Who was not included in the process?

An aerial photograph of a village with several buildings that have bright red corrugated metal roofs. The buildings are situated on a dirt bank next to a body of water. A white boat is visible on the water to the right. The surrounding area is lush with green trees and vegetation.

MAP FOR PEOPLE IN NEED

Join a global community that is mapping the places most vulnerable to disaster and poverty in order to support humanitarian aid and sustainable development across the world.

[Start mapping](#)[Join the community](#)**133.8M**

Buildings Mapped

2.8M

Mapped Roads (Km)

173.1M

Total Map Edits

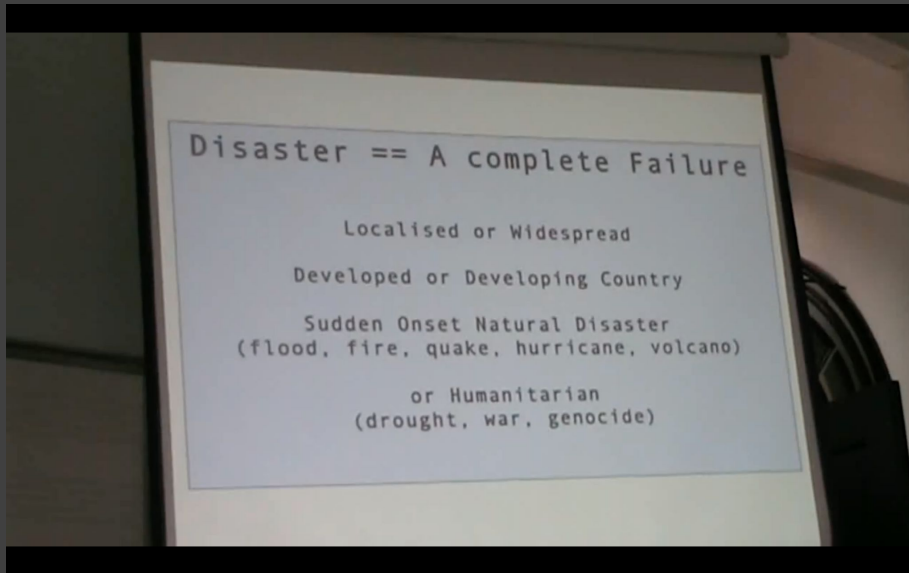
406K

Total Mappers

61

Mappers Online

In the archive of HOT & OpenStreetMap



What is mapping, and why do it?



Goal: Creating digital maps of the world's 'forgotten' places by crowdsourcing. Described as '[the human genome project for international development](#)'.

Why: Many parts of the world most vulnerable to humanitarian crises such as natural disasters, disease outbreaks, epidemics or conflict are not mapped. People have limited/ no visibility to the situation on the ground.

Humanitarian organizations use mapped information to plan risk reduction and activities that save lives



Search Where is this? Go



Mapping the mappers on OpenStreetMap

1000 km
1000 mi

Frictionless Data Fellowship → Open Knowledge Foundation



FRICTIONLESS
DATA

[Home](#) [Syllabus](#) [Resources](#) [Lessons](#) [Blog](#) [About](#)

Welcome to the Frictionless Data for
Reproducible Research Fellows Programme!

What is the Reproducible Research Fellows Programme?

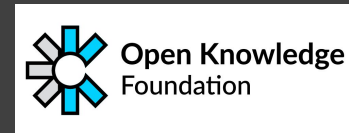
With the Frictionless Data Reproducible Research Fellows Programme, supported by the Sloan Foundation and Open Knowledge Foundation, we are recruiting and training early career researchers to become champions of the Frictionless Data tools and approaches in their field.

- Interoperability
- Introduced to open science
- Reproducibility
- Open access
- Data Best practices

<https://fellows.frictionlessdata.io/blog/anne-final-blog/>

Open knowledge ← → Open source

Open knowledge (and open source! And open science!) has roots in developing tools and ways of working that aim to **shift power in the production and publication of knowledge worldwide.**



Open Access & Aaron Schwartz



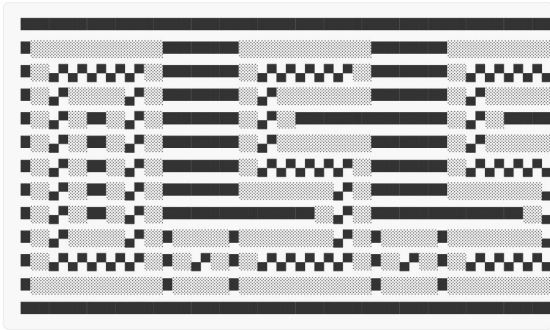
“Information is power. But like all power, there are those who want to keep it for themselves. The world’s entire scientific and cultural heritage, published over centuries in books and journals, is increasingly being digitized and locked up by a handful of private corporations.”

– Aaron Swartz, Guerilla Open Access Manifesto, 2008

Wikimedia Deutschland + Open Source Social Science

UNLOCK

Program About us FAQ Blog



Open Source Tools for Social Science Researchers

Tools for social scientists of all kinds, conducting research with people online.

UNLOCK

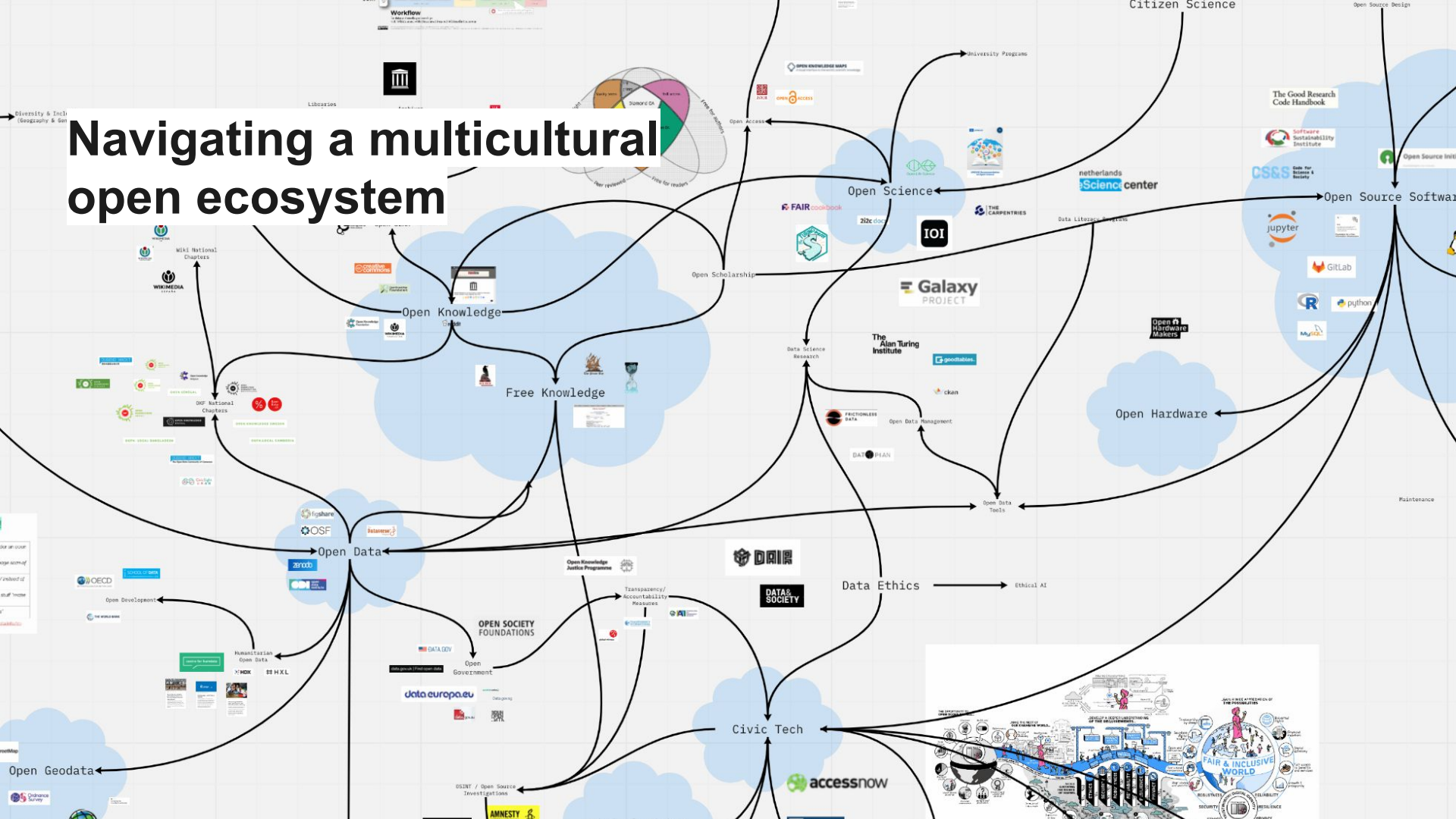
of Free



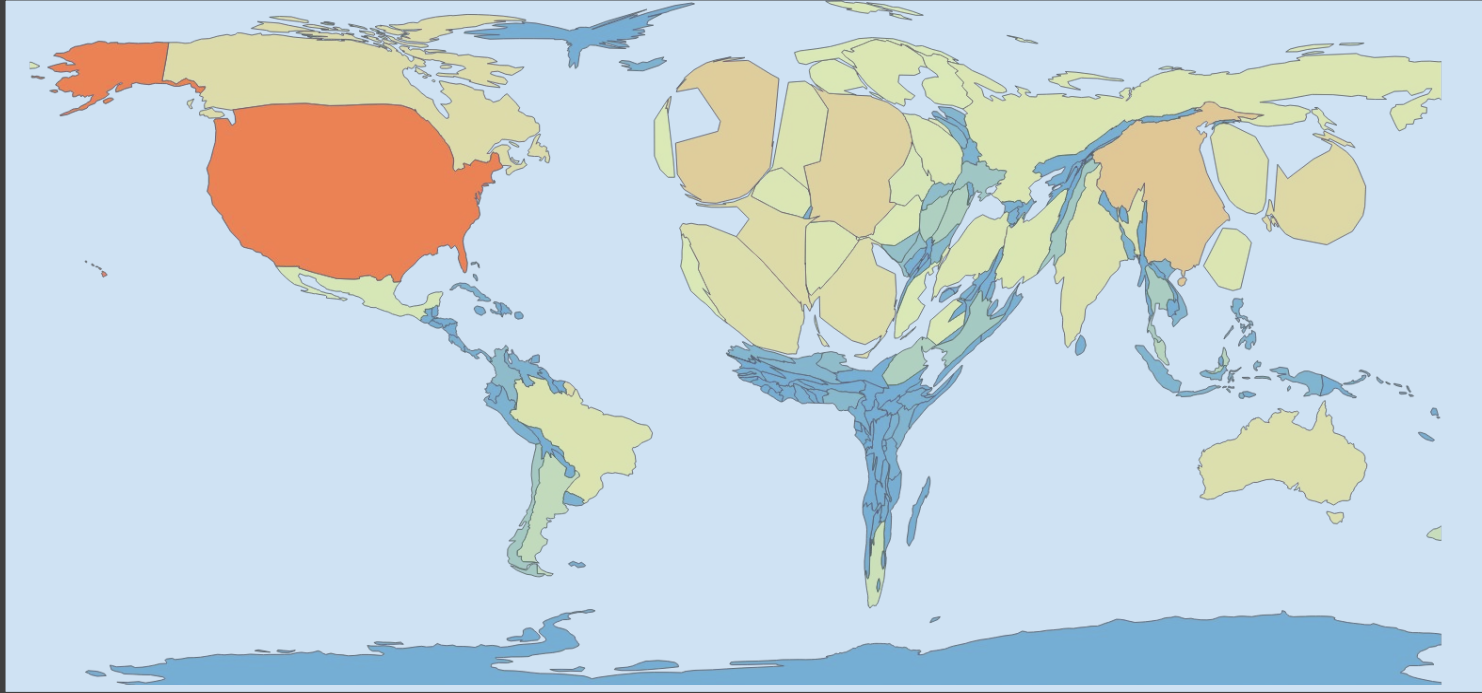
What is the UNLOCK Accelerator?

We support open source software projects and non-technical projects under free licenses. The UNLOCK Accelerator is committed to promoting solutions that make the world's knowledge more diverse, more accessible and inclusive for everyone.

Navigating a multicultural open ecosystem



But who produces knowledge?



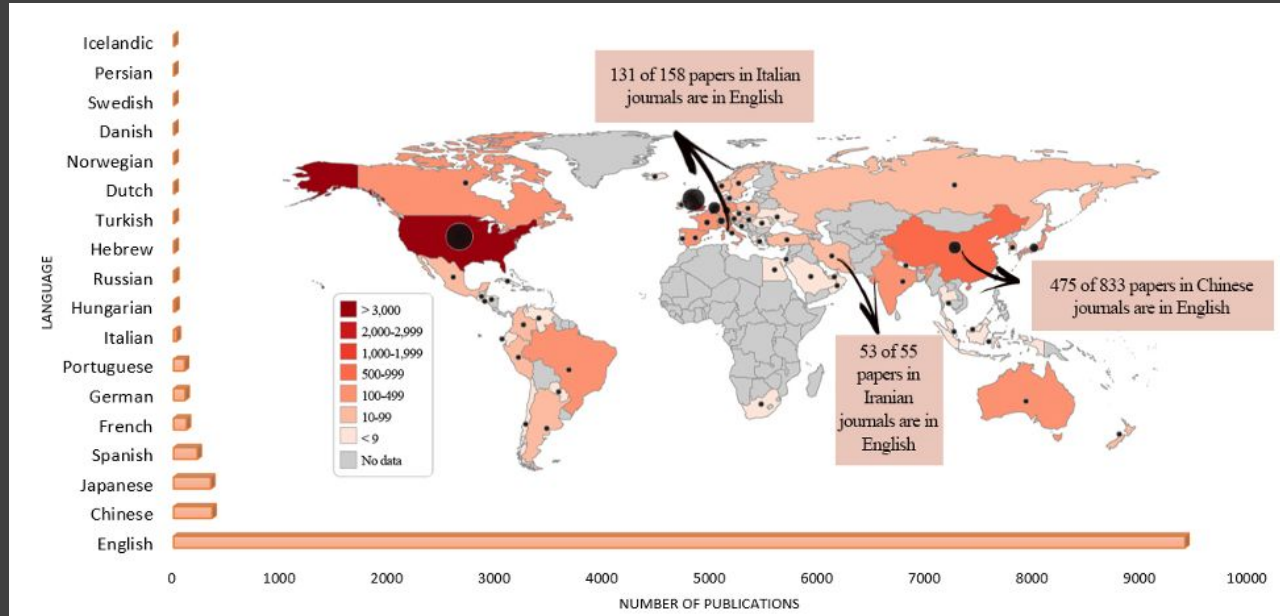
World scaled by number of documents in Web of Science by authors living there, 2011 (source: Juan Pablo Alperin).

Global participation in open source software



World map of open source contributions, 2021 (Meyers et al)

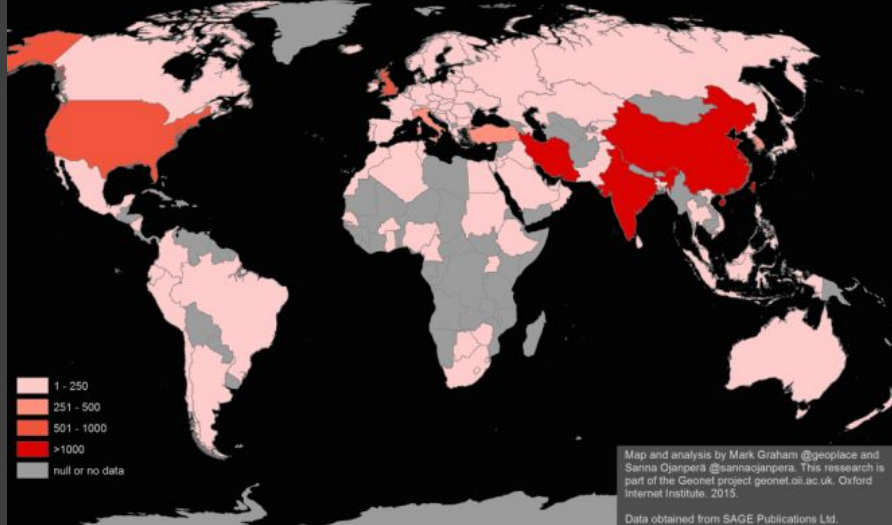
Unequal contribution and participation in Knowledge Production: language



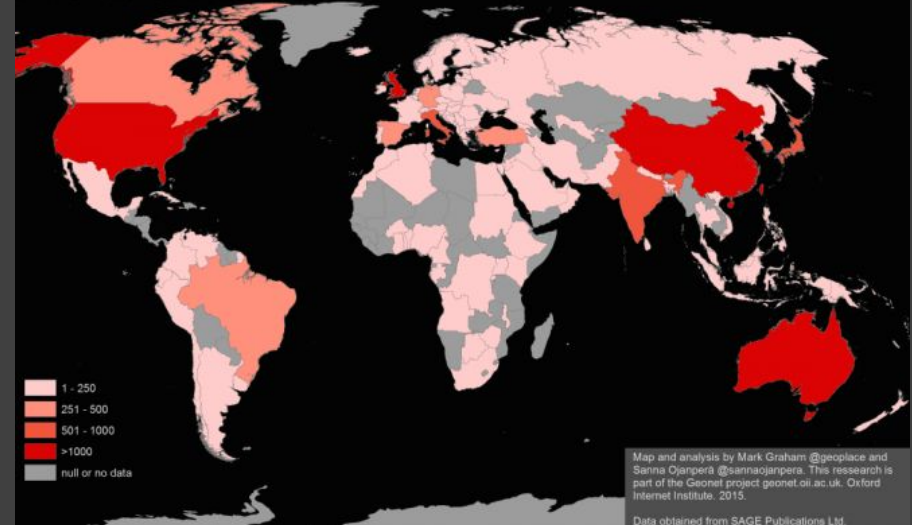
World scaled by number of documents in Web of Science by authors living there, 2011 (source: Juan Pablo Alperin).

Unequal contribution and participation in Knowledge Production: country of origin

Submissions by Country of Submitting Author to Engineering and Computing Journals in 2014

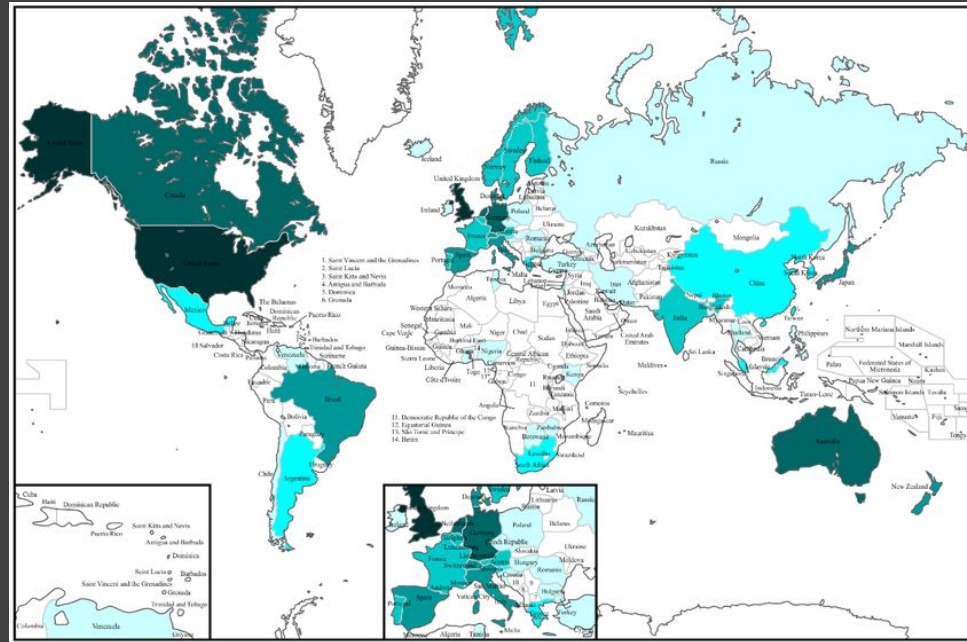


Submissions by Country of Submitting Author to Clinical Medicine and Critical Care Journals in 2014



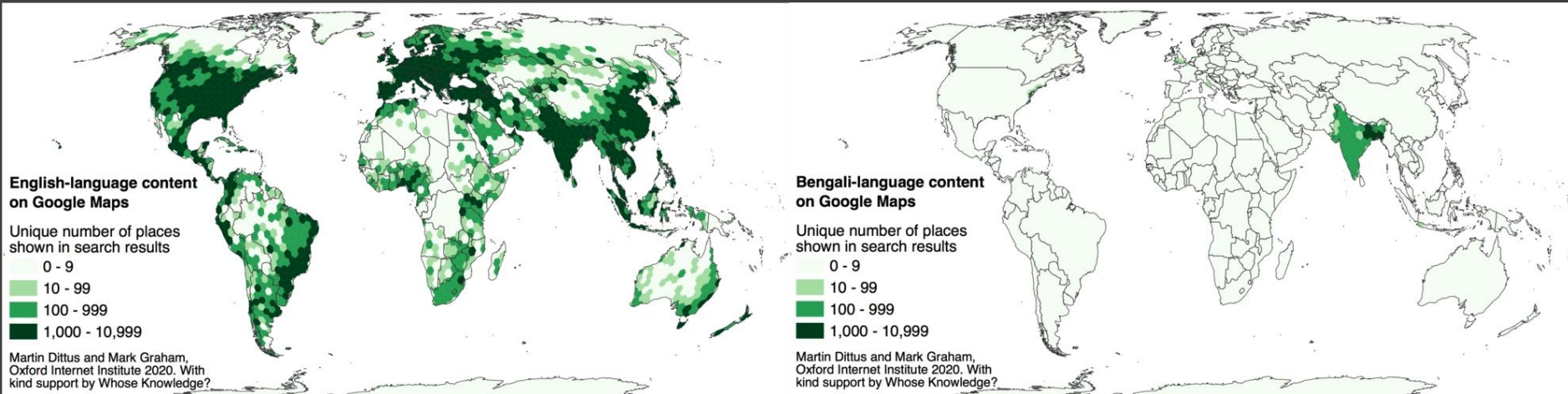
World scaled by number of documents in Web of Science by authors living there, 2011 (source: Juan Pablo Alperin).

Unequal contribution and participation in Knowledge Production: publication output



World map of scientific communication, 2017 (Márquez & Porras map)

Global language landscape extends to the Internet itself, and the global access to information



English-language content and Bengali-language content on Google Maps, from Internet Languages Project (Dittus & Graham)

Global initiatives in open science

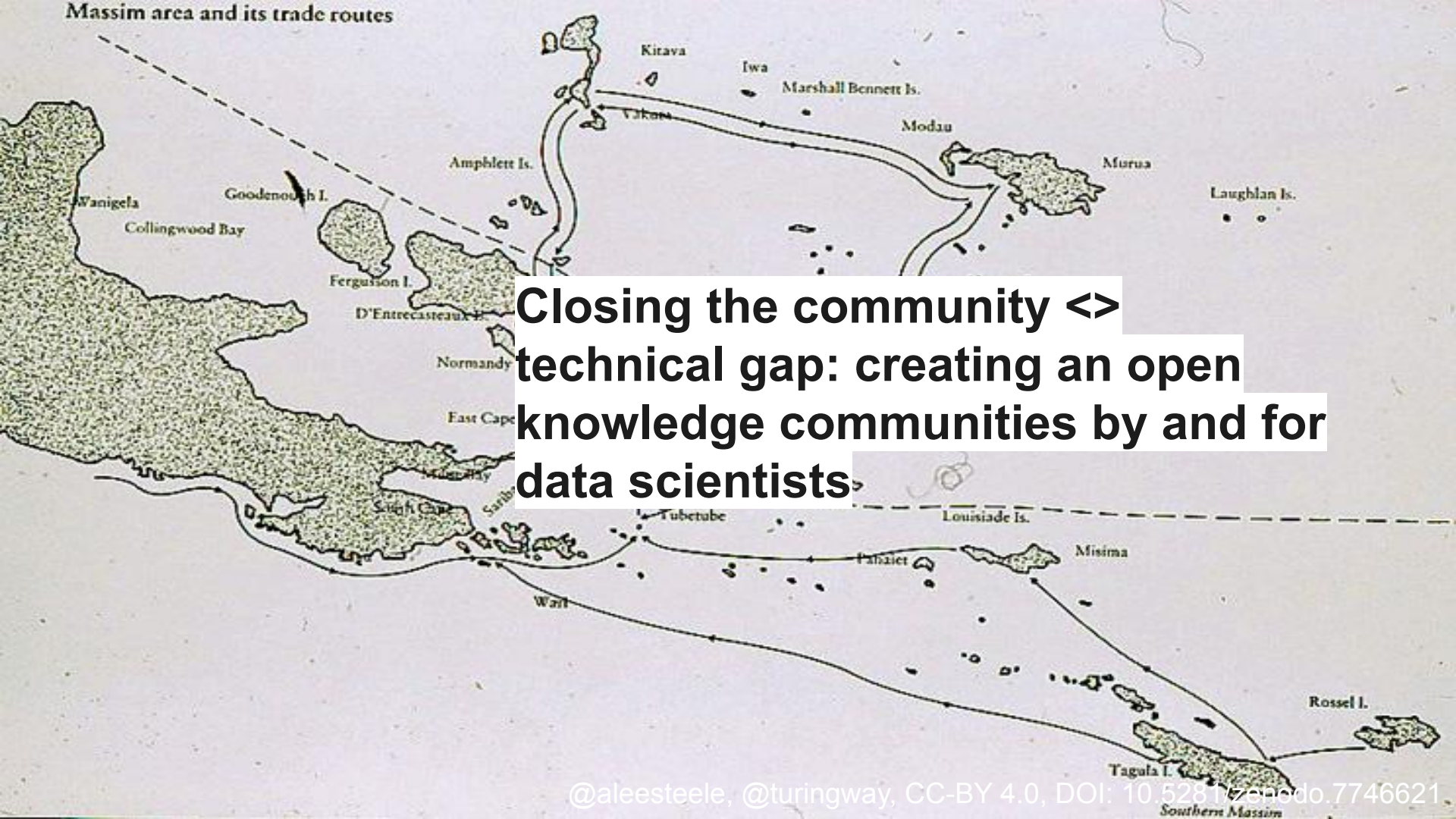


Overview of the current Open Science policies and Infrastructure around the Globe. Image adopted from Malaysian Open Science Platform by Open Science community Saudi Arabia (OSCSA), licensed under CC BY 4

Not only global, but local



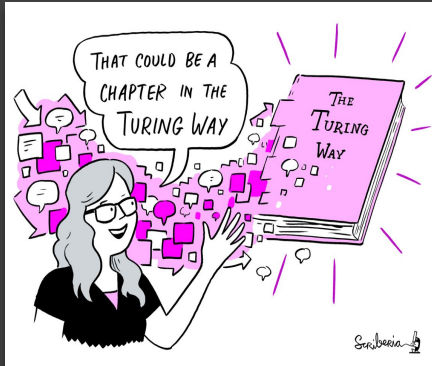
Massim area and its trade routes



**Closing the community <>
technical gap: creating an open
knowledge communities by and for
data scientists**

The Turing Way

An open guide for data science & open research.



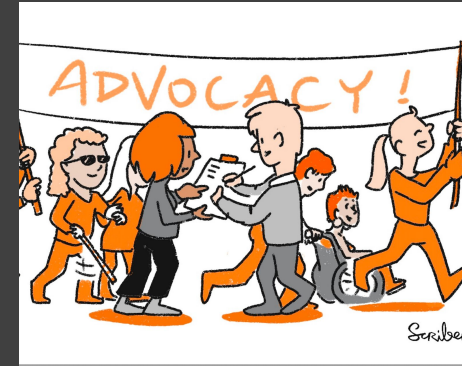
Open Access
Book



Open Source
Community



Open Tools
Open Data
Open Hardware
Open Software

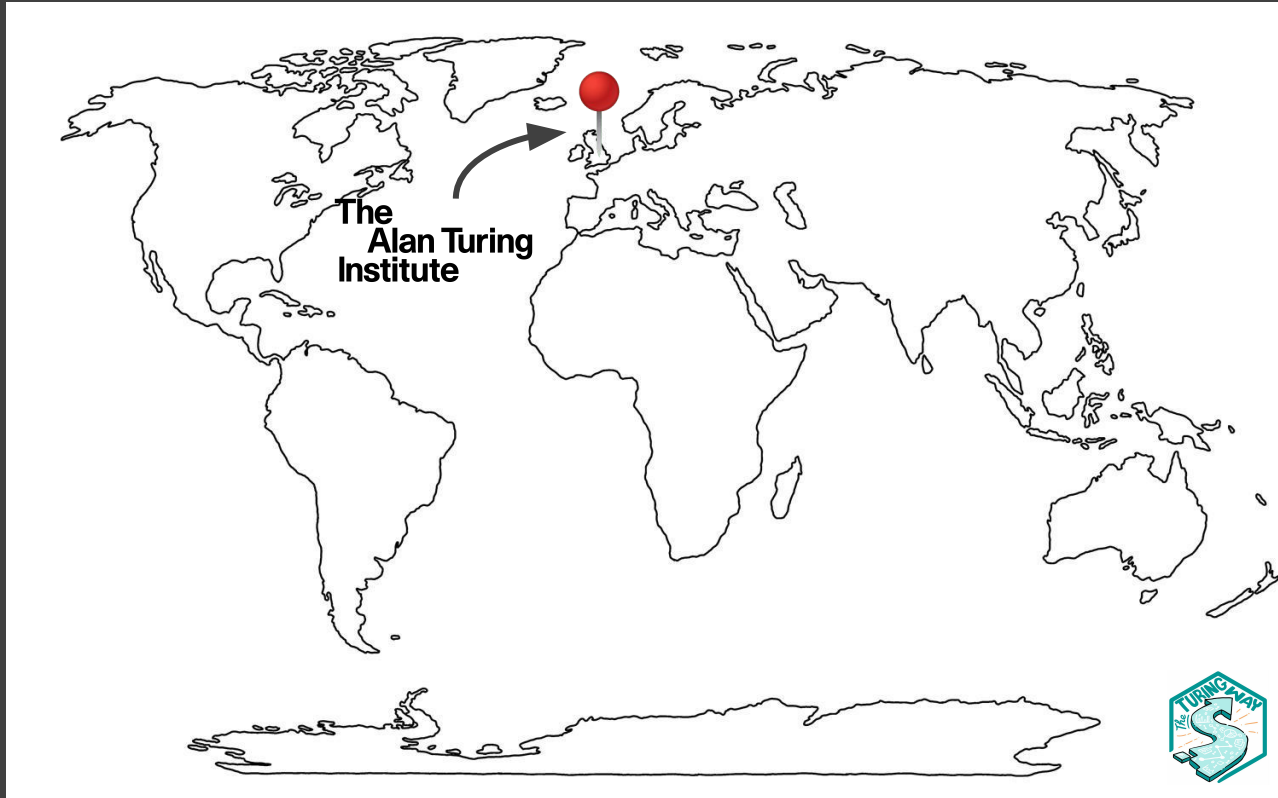


Open culture

The Turing Way: empowering data scientists



Data Science Research: open, but for whom?



Open knowledge: but for whom?



Open knowledge: but for whom?



The Alan Turing Institute

Acknowledgements:

- The Turing Way team, Kirstie Whitaker & Malvika Sharan
- *The Turing Way* community, contributors & collaborators
- Book: the-turing-way.netlify.com
- Twitter: twitter.com/turingway
- Fosstodon: fosstodon.org/turingway
- Newsletter: tinyletter.com/TuringWay
- Slack: tinyurl.com/jointuringwayslack
- GitHub: github.com/alan-turing-institute/the-turing-way
- Original artwork by Scriberia: <https://doi.org/10.5281/zenodo.3332807>

