

- ☐ Kirstie Whitaker (kwhitaker@turing.ac.uk)
- Malvika Sharan (msharan@turing.ac.uk)

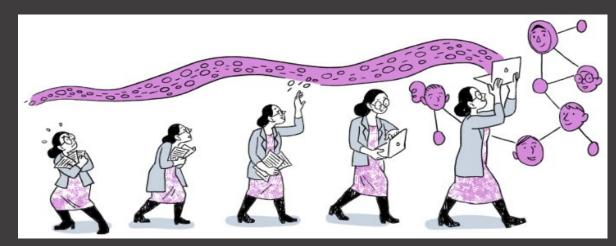


# The Turing Way

An community-led handbook to Data Science and research.

We involve and support a diverse community to make data science reproducible, ethical, open and collaborative for everyone.





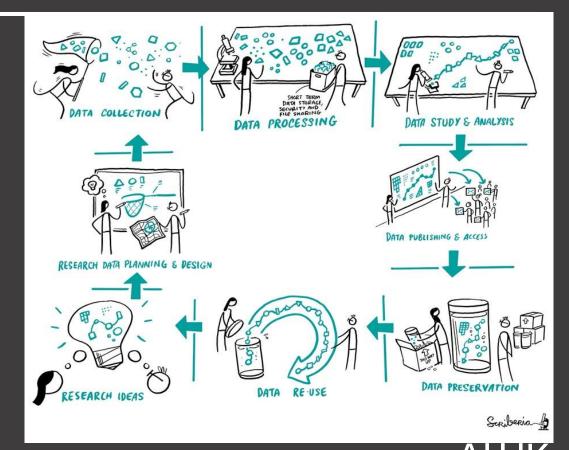


Join our community on twitter: @turingway, GitHub: https://github.com/alan-turing-institute/the-turing-way.

Book: https://the-turing-way.netlify.app, Image by The Turing Way community and Scriberia under CC-BY 4.0 License.

# Considering reproducibility at all stages of research

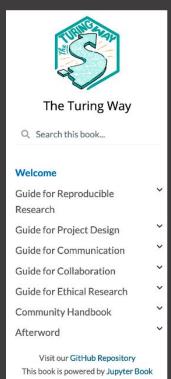
		Data	
		Same	Different
Analysis	Same	Reproducible	Replicable
	Different	Robust	Generalisable



Join our community on twitter: @turingway, GitHub: https://github.com/alan-turing-institute/the-turing-way.

Book: https://the-turing-way.netlify.app, Image by The Turing Way community and Scriberia under CC-BY 4.0 License

# Always a 'work in progress'



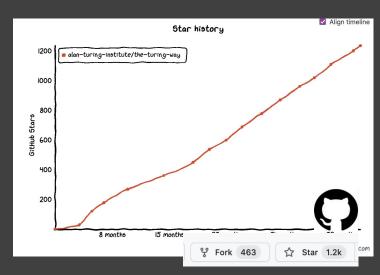


Join our community on twitter: @turingway, GitHub: https://github.com/alan-turing-institute/the-turing-way.

Book: https://the-turing-way.netlify.app, Image by The Turing Way community and Scriberia under CC-BY 4.0 License

## Notable impacts

- An Emerging Technology Charter by Mayor of London (policy)
- Reproducibility of scientific results in the EU 2020 (report)
- Innovation Scholars: UKRI grant 2020 (funding call)
- Replicated by >8 projects including by the Office for National Statistics
- CodeRefinary and Library Carpentries training materials
- Cited by 20+ peer-reviewed articles & >100 online publications



3 years, 5 Guides, 260 live pages

all contributors 322

#### Subscribers:

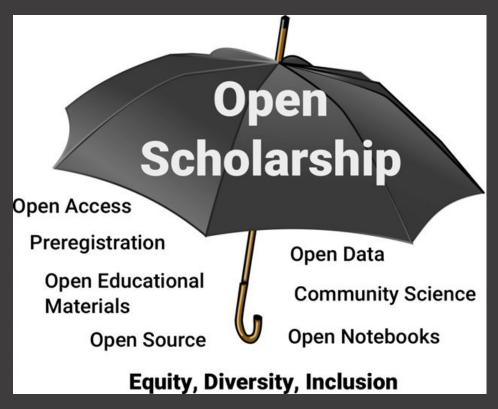
340 on Slack, 580 on newsletters, 2688 on Twitter, 1000s of visitors

Join our community on twitter: <a href="mailto:other.com/alan-turing-institute/the-turing-way">other.com/alan-turing-institute/the-turing-way</a>.

Book: https://the-turing-way.netlify.app, Image by The Turing Way community and Scriberia under CC-BY 4.0 License

# "Open" for the purpose of improved equity

- There are many different definitions of "open".
- All these practices should be with a goal of furthering equity, diversity and inclusion.



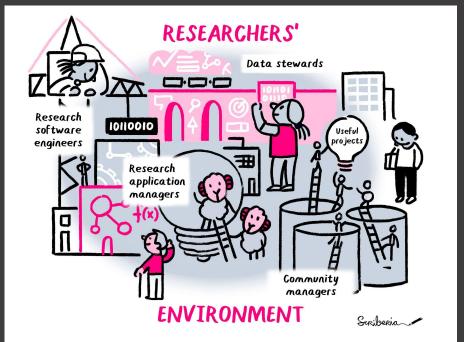
# Investing in human infrastructure for culture change

Coordinating the people of collaborative data science projects is - often - one of the biggest blockers in addressing large scale, ambitious research questions.



# Providing career pathways for culture change

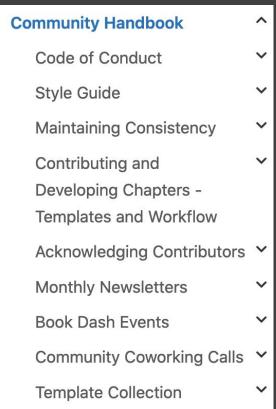
- Data Stewards
- Research Software Engineers
- Community Managers
- Research Application
   Managers (RAMs)





## Institutional backing for sustainability & adoption





@turingway, Image by Scriberia and The Turing Way Community, CC-BY 4.0, DOI: 10.5281/zenodo.5484384

# Reflect & Share

How do you or could you use, promote or contribute to *The Turing Way* in your local contexts?



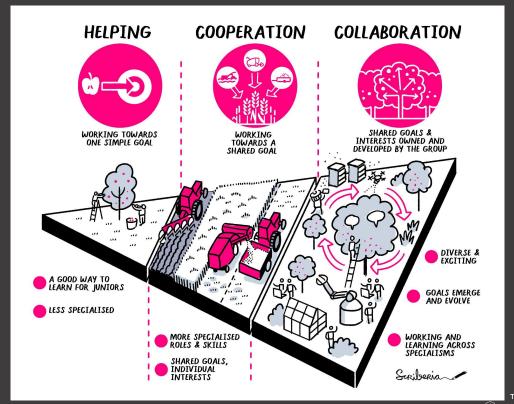
## Tools, Practices and Systems

- Trustworthy systems (DSH)
- Transparent reporting
- Inclusive interoperable design (TW)
- Ethical integrity
- Respectful co-creation
- Leadership in open research



# Researchers' Journey in Open

From users → contributors → collaborators





# TURING A VAIV

#### Book:

the- turing-way.netlify.app

#### **GitHub:**

github.com/alan-turing-institute/the-turing-way

#### **Twitter:**

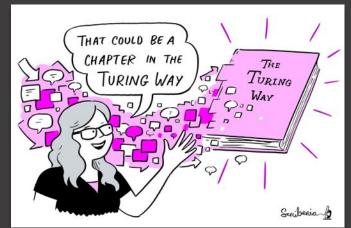
twitter.com/turingway

#### **Email:**

theturingway@gmail.com

CC-BY 4.0, The Turing Way

#### A Book with Five guides



#### A Community



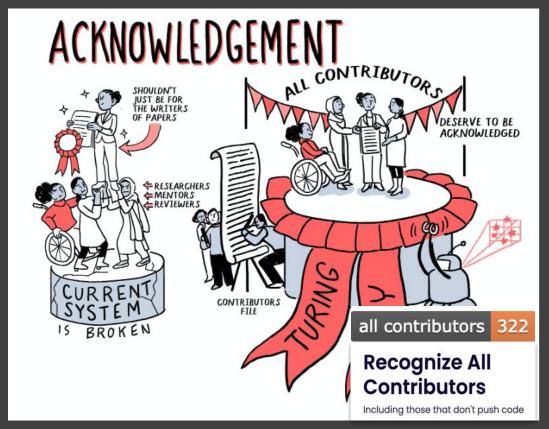
#### An Open Source Project



#### A Culture of Collaboration



## Governance & Recognition



# Record of Contributions Personal Highlights from

The Turing Way
Contributors

**Kirstie Whitaker** 

Α

В

C

Е

# Collaborating Organisations and Projects

Delft University of

Technology - Faculty of Applied Sciences

Netherlands eScience

Center

FAIR Cookbook

Open Life Science

#### Cite as: The Turing Way Community.

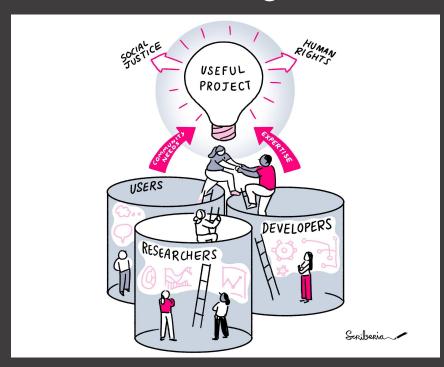
(2021). The Turing Way: A handbook for reproducible, ethical and collaborative research (1.0.1). Zenodo. https://doi.org/10.5281/zenodo.5671094

# Discussion

- Looking forwards: In what direction should we take The Turing Way?
- What investments should our stakeholders make to ensure the long term sustainability of *The Turing Way* project and its community?



# Join us investing in human infrastructure





Fireside chat series features people, projects and communities in open and reproducible research.

Friday - 25 March, bit.ly/turingway



Join our community on twitter (@turingway), GitHub (https://github.com/alan-turing-institute/the-turing-way), Book: https://the-turing-way.netlify.app, Image by The Turing Way community and Scriberia under CC-BY 4.0 License

#### **Contact:**

Kirstie Whitaker (@kirstie\_j), Malvika Sharan (@malvikasharan)

Email: theturingway@gmail.com

Slides: https://doi.org/10.5281/zenodo.6378011

#### Useful links:

Book: the-turing-way.netlify.com

Twitter: twitter.com/turingway

Newsletter: tinyletter.com/TuringWay

– GitHub: github.com/alan-turing-institute/the-turing-way

– Slack: https://tinyurl.com/jointuringwayslack

Artwork by Scriberia: https://doi.org/10.5281/zenodo.3332808

# The Alan Turing Institute

