The Alan Turing Institute

Impact through community: The Turing Way July 20, 2022

Dr Alden Conner (she/her)

Research Application Manager

Tools, Practices, and Systems Programme

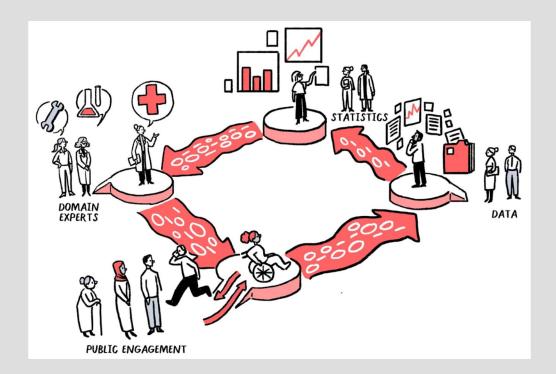


The Alan Turing Institute

- We undertake <u>research</u> which tackles some of the biggest challenges in science, society and the economy
- <u>We collaborate</u> with universities, businesses and public and third sector organisations to apply this research to real-world problems, with lasting effects for science, the economy, and the world we live in

Collaboration in action

- Leveraging expertise from different areas strengthens research
- Public engagement steers us towards impact
- Collaboration brings its own challenges



Tools, Practices, and Systems

- TPS drives culture change by promoting and modelling open working and a team science mentality
- TPS advocates for and disseminates best practices in interoperability, reproducibility and re-usability of research outputs



Team science

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



Research Application Managers

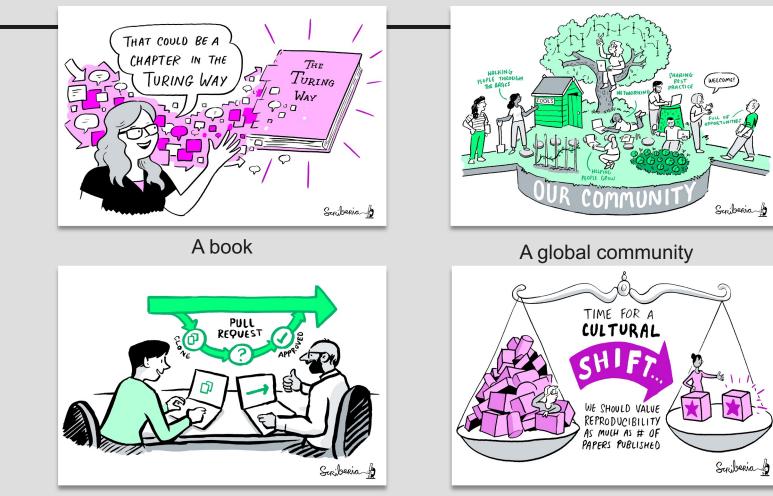
Research Application Managers (RAM) enhance the real-world impact of the research output by focussing on the user perspective



The Turing Way

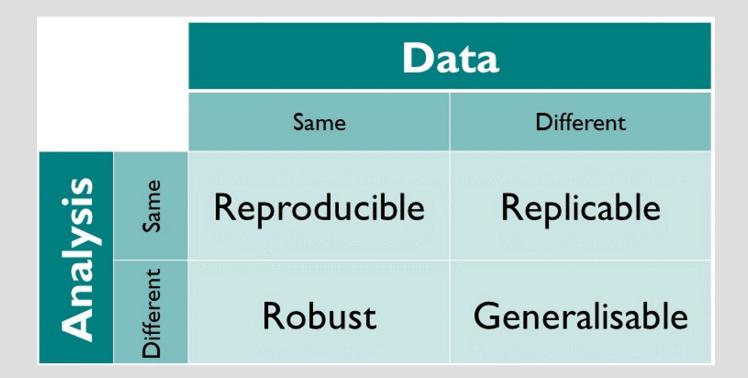
An open source guide for Data Science

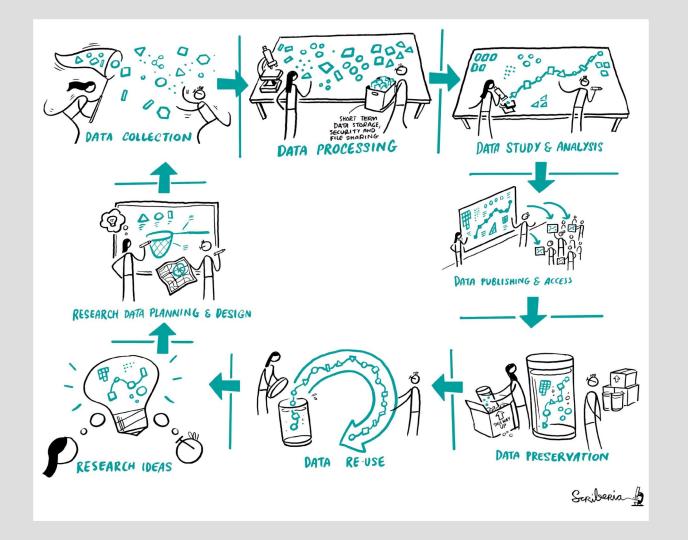
- Exchange best practices for reproducible, ethical and collaborative research
- 2 Drive community-based development, maintenance and sustainability of research
- Build interconnected systems of open software, data, communities and processes



An open source project

A culture of collaboration





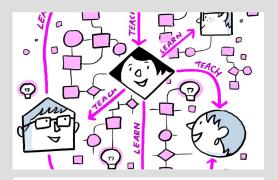
The Turing Way Guides



Reproducibility



Project Design



Communication





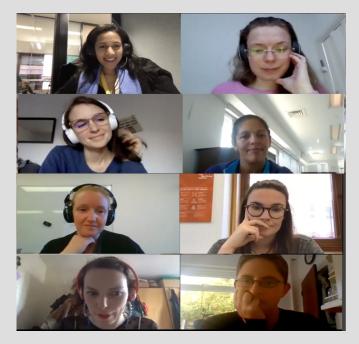
THAT COULD BE A CHAPTER IN THE TURING WAY

Community Handbook

Collaboration

Ethical Research

Collaborative community



Collaboration Cafes and weekly coworking



Book Dash events (inperson & virtual) **Collaborative community**

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

Pathways for Collaboration



Develop & share



Maintain & improve



Share resources



Review & update



Translate



Share best practices



Notable impacts

Resources are being used by learners, educators, community builders, policy makers and researchers globally

- Featured in Goldacre Review for open working (2022)
- Highly-commended project in **The Hidden REF** Competition (2022)
- Reproducibility of scientific results in the EU 2020 (report)
- An Emerging Technology Charter by Mayor of London (policy)
- Innovation Scholars: UKRI grant 2020 (funding)
- CodeRefinary and Library Carpentries (training materials)
- Projects by data scientists including at the Office for National Statistics
- Cited by 20+ peer-reviewed articles & 20+ open source projects

Community events

Collaboration cafes

- 1st and 3rd Wednesdays 14:00 (UK)

- Coworking calls
 - Every Monday 11:00 (UK)
- Fireside chats
 - Final Friday of each month



Acknowledgements

- RAM team: Aida Mehonic, Jennifer Ding, Hari Sood
- Slides: Aida Mehonic, Alejandro Coca-Castro, TTW team
- TTW team: Kirstie Whitaker, Malvika Sharan, Anne Lee
 Steele
- Original artwork by Scriberia:

doi.org/10.5281/zenodo.3332807

Keep in touch!

- aconner@turing.ac.uk
- ram@turing.ac.uk
- @turingway 🈏
- github.com/alan-turing-institute/the-turing-way
- the-turing-way.netlify.app
- Newsletter: tinyletter.com/TuringWay