The Alan Turing Institute

Stop breeding unicorns

Kirstie Whitaker
Pronouns: she/her

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This person is a unicorn

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They are delightful

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But they don’t exist

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But they don’t exist

We can’t expect individuals to be able to do all of these tasks to the highest standard

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Research Programme Director for Tools, Practices & Systems

The Alan Turing Institute

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https://the-turing-way.netlify.app/collaboration/research-infrastructure-roles.html
https://scienceeurope.org/our-priorities/research-infrastructures
https://www.nihr.ac.uk/explore-nihr/support/research-infrastructure.htm

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UK Research and Innovation
UKRI Strategy 2022–2027
Transforming tomorrow together
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https://www.ukri.org/publications/ukri-strategy-2022-to-2027
https://doi.org/10.5281/zenodo.7749650

Objective 1: World-class people and careers

Making the UK the top destination for talented people and teams.

https://www.ukri.org/publications/ukri-strategy-2022-to-2027

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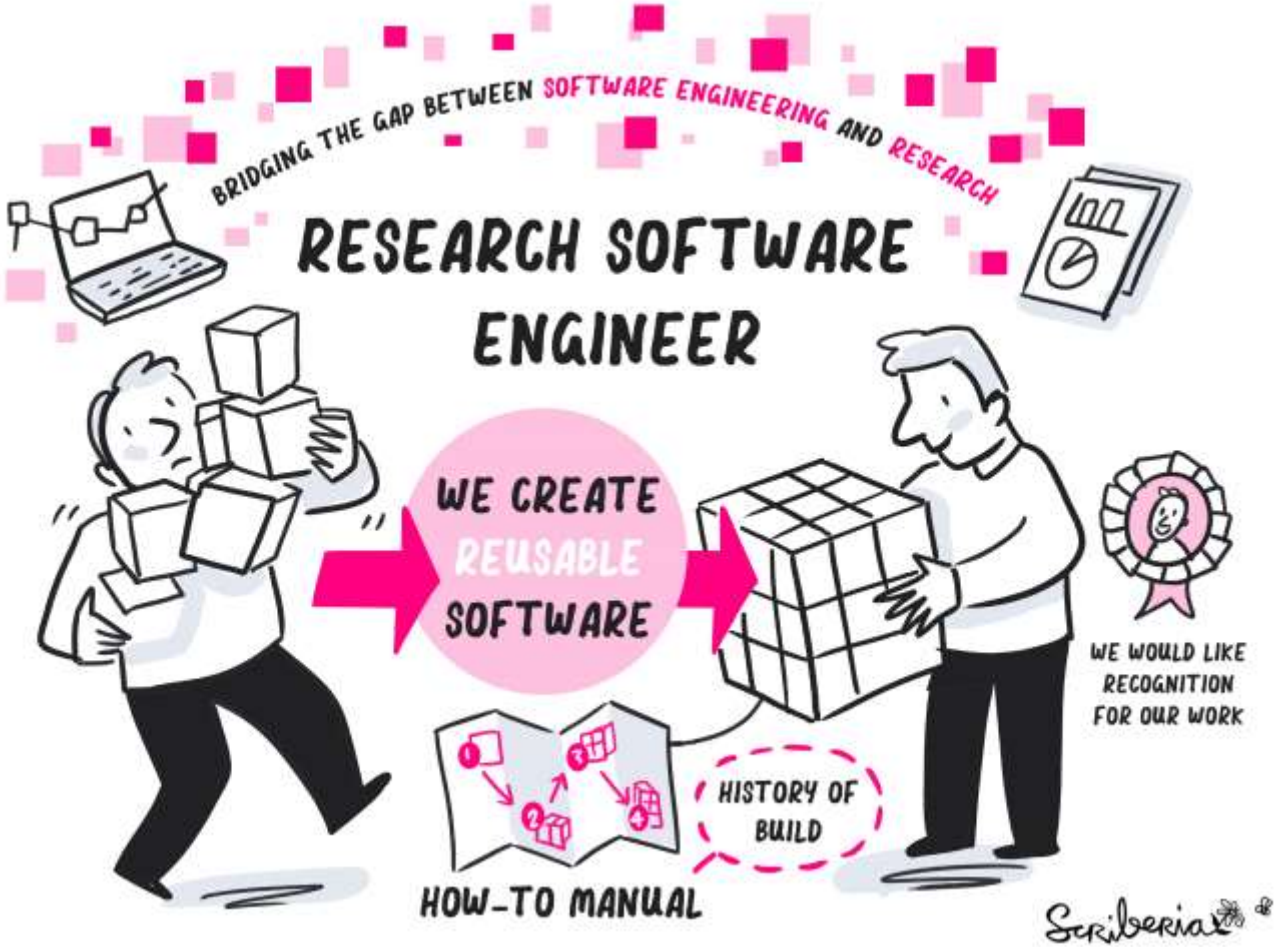
RSE



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https://society-rse.org/about https://doi.org/10.5281/zenodo.7749650

RSE

Our mission is to establish a research environment that recognises the vital role of software in research. We work to increase software skills across everyone in research, to promote collaboration between researchers and software experts, and to support the creation of an academic career path for Research Software Engineers.

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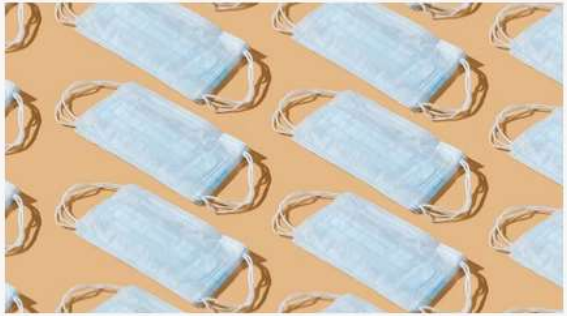
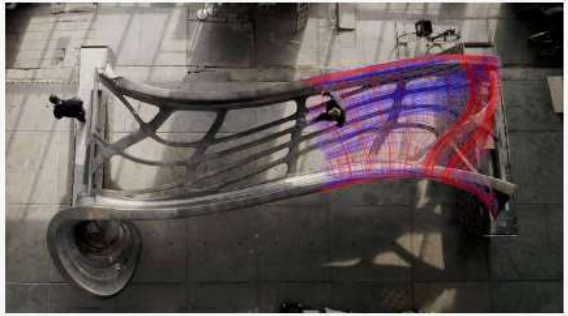


Providing COVID-19 expertise to the UK government

The Turing-RSS Health Data Lab delivered invaluable insights to the UK Health Security Agency throughout the pandemic



Bridging the gap between physical and digital

The Turing's data-centric engineering programme and its collaborators are unlocking insights into the world-first 3D printed steel bridge, using innovative data science techniques and 'digital twin' technology

Supporting innovation in the fintech sector

The Turing evaluated the synthetic data used in the Financial Conduct Authority's Digital Sandbox Pilot

Helping London to navigate lockdown safely

Project Odysseus monitors activity on the streets of London, allowing authorities to make interventions to keep people socially distanced

Predicting conflict – a year in advance

Ground-breaking technology developed at The Alan Turing Institute could revolutionise the prediction of global conflict, boosting peacekeeping efforts and saving lives

Putting the AI in air traffic control

The UK's leading air traffic control provider, NATS, has teamed up with the Turing to explore how the industry can evolve with machine learning

https://www.turing.ac.uk/research/research-engineering/reg-impact-stories

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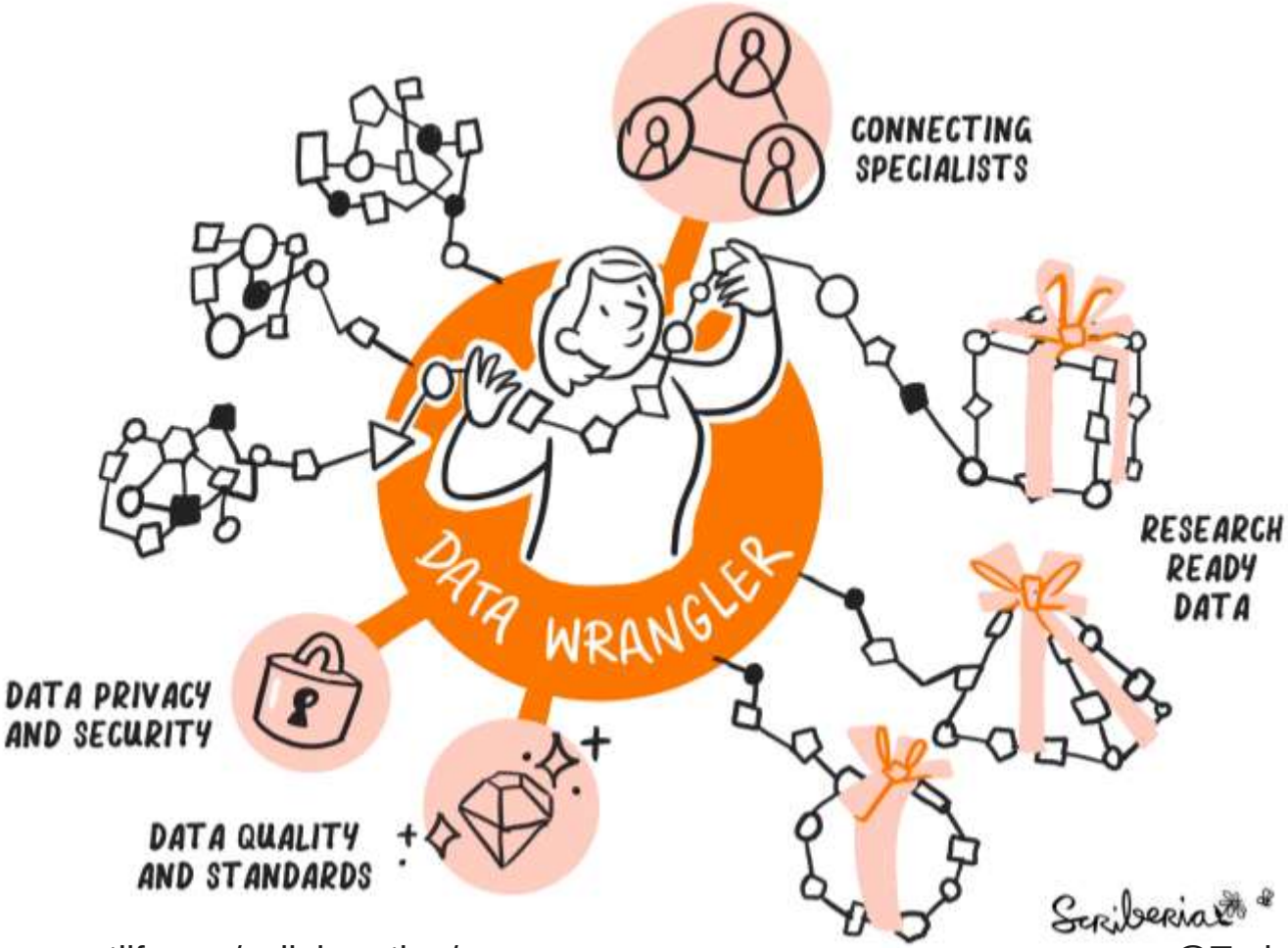

https://the-turing-way.netlify.app/collaboration/research-infrastructure-roles/data-wrangler.html

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CPRD | UK data driving real-world evidence

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Clinical Practice Research Datalink

Clinical Practice Research Datalink (CPRD) is a real-world research service supporting retrospective and prospective public health and clinical studies. CPRD research data services are delivered by the Medicines and Healthcare products Regulatory Agency with support from the National Institute for Health and Care Research (NIHR), as part of the Department of Health and Social Care.

CPRD collects anonymised patient data from a network of GP practices across the UK. Primary care data are linked to a range of other health related data to provide a longitudinal, representative UK population health dataset. The data encompass 60 million patients, including 18 million currently registered patients.

For more than 30 years, research using CPRD data and services has informed clinical guidance and best practice, resulting in over 3,000 peer-reviewed publications investigating drug safety, use of medicines, effectiveness of health policy, health care delivery and disease risk factors.

Search

Search

GP practices - Join today

Researcher log in

Longitudinal primary care records

Linkage to health datasets

60 million patients

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https://cprd.com

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To access synthetic data a data wrangler needs to:

- Read and understand lengthy data specifications with domain specific and technical terms
- Understand or create metadata data dictionaries
- Articulate specific research motivation
- Negotiate and understand data license agreements

Community management

https://the-turing-way.netlify.app/collaboration/research-infrastructure-roles/community-manager.html

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The Turing Way is an **open source book project** that involves and supports a **diverse research community** in ensuring that reproducible and ethical **data science** is accessible and comprehensible **for everyone**.

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https://the-turing-way.netlify.app/community-handbook/coworking/coworking-collabcafe.html

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Research application management

https://the-turing-way.netlify.app/collaboration/research-infrastructure-roles/ram.html

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Defining Stakeholder Relationships & Prioritising Stakeholder Collaborations

For each stakeholder, add them to the matrix below depending on their:

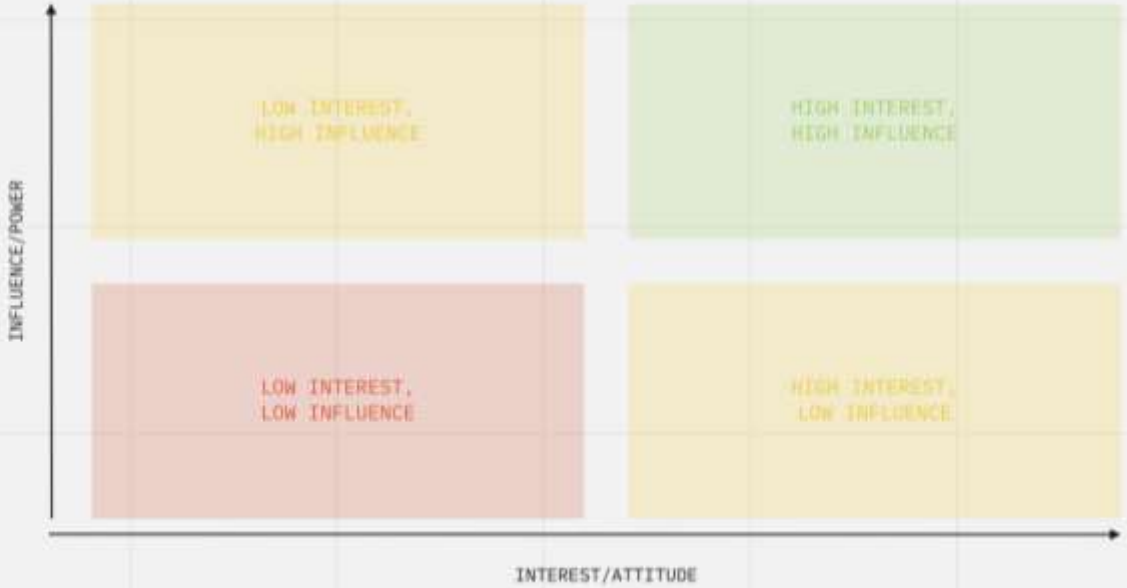
- **Interest/attitude**: How engaged are they in the project, and are they an advocate?
- **Influence/power:** How involved are they with determining what happens with the project?

Goals:

- Determine which stakeholders to focus on
- Identify how stakeholders engage with the project

Questions:

- Who are the most important stakeholders?
- How does involvement differ between stakeholders?
- Which stakeholders matter most to your project?



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https://the-turing-way.netlify.app/collaboration/oss-sustainability/oss-sustainability-challenges.html

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One of the most common beliefs about Open Source is that it simply means “free” and therefore an open source project never generate revenue or profit.

The definition used by The Turing Way states that OSS should be <u>publicly available</u>.

https://the-turing-way.netlify.app/collaboration/oss-sustainability/oss-sustainability-challenges.html

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https://the-turing-way.netlify.app/ethical-research/ethics-intro.html https://doi.org/10.5281/zenodo.7749650

Four tiers of a responsible project delivery ecosystem

Understanding artificial intelligence ethics and safety, Leslie, 2019
10.5281/zenodo.3240529

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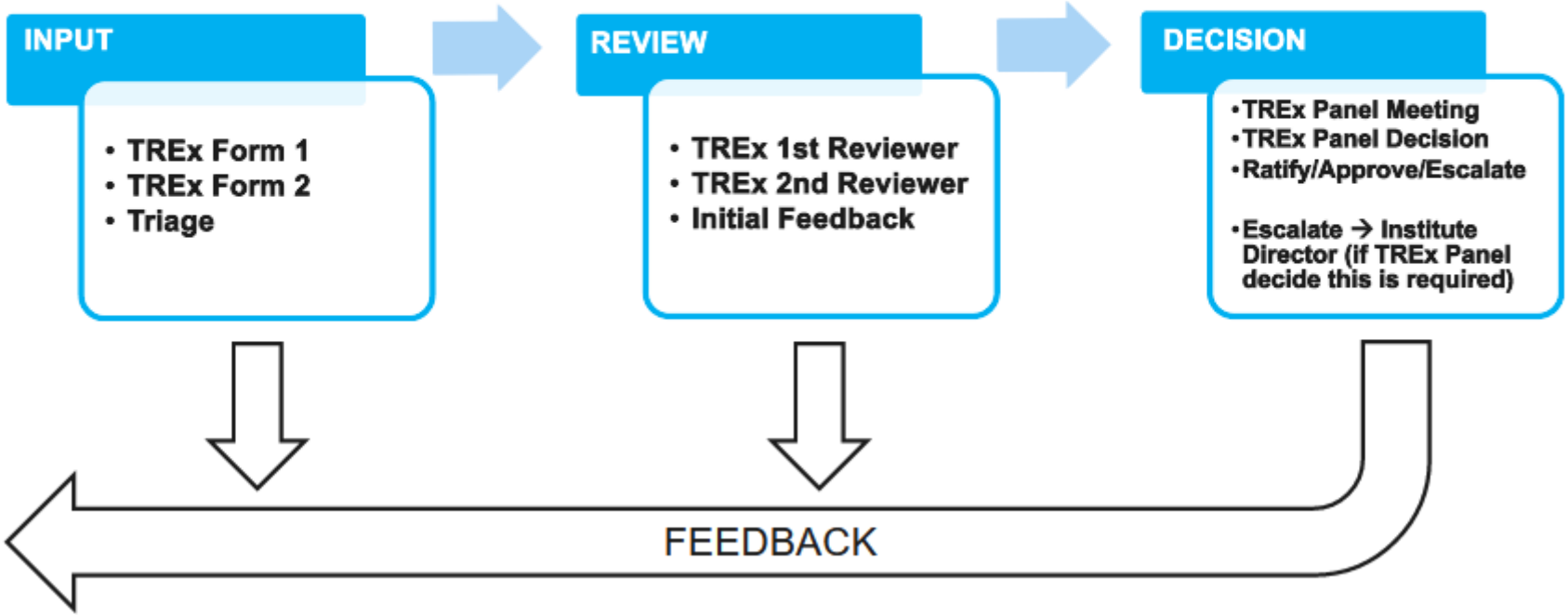
TREx process overview:



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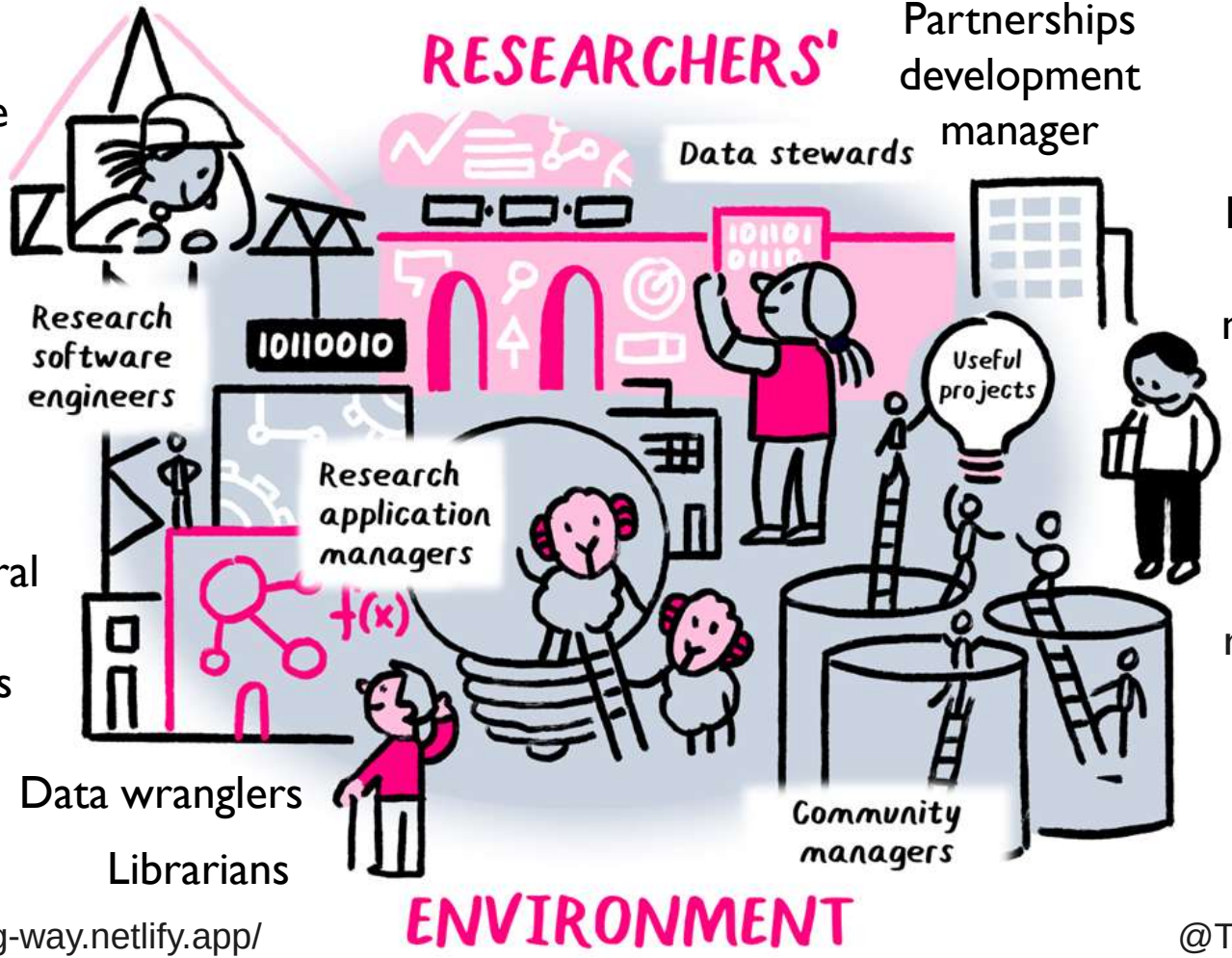

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It does not matter how the roles differ.
We all have overlapping skills and motivations.

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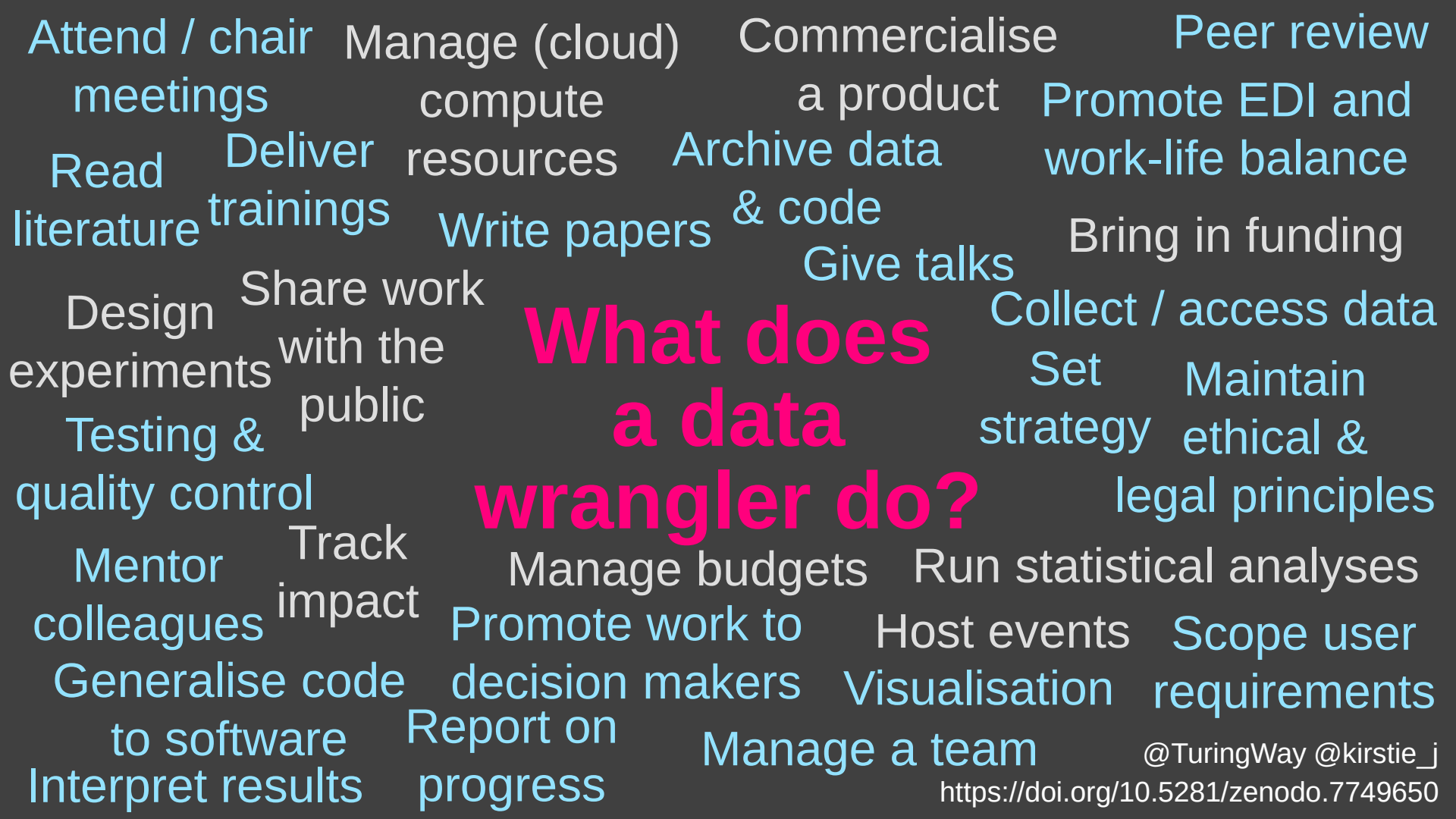
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Promote EDI and work-life balance
Read literature
Deliver trainings
Archive data & code
Write papers
Give talks
Bring in funding
Design experiments
Share work with the public
Collect / access data
Set strategy
Maintain ethical & legal principles
Testing & quality control
Track impact
Manage budgets
Run statistical analyses
Mentor colleagues
Promote work to decision makers
Host events
Scope user requirements
Generalise code to software
Visualisation
Report on progress
Manage a team
Interpret results
@TuringWay @kirstie_j
https://doi.org/10.5281/zenodo.7749650


Attend / chair meetings
Manage (cloud) compute resources
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What does a RAM do?
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What does a CGREM do?
Set strategy
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Mentor colleagues
Manage budgets
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It does not matter how the roles differ.
We all have overlapping skills and motivations.

We must build career pathways that are appropriately incentivised so tasks can be allocated equitably across a project team.

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Peer review
Promote EDI and work-life balance
Read literature
Deliver trainings
Archive data & code
Write papers
Give talks
Apply for funding
Design experiments
Share work with the public
Collect / access data
Work together as a team
Set strategy
Maintain ethical & legal principles
Testing & quality control
Mentor colleagues
Track impact
Manage budgets
Run statistical analyses
Promote work to decision makers
Host events
Scope user requirements
Generalise code to software
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Stop breeding unicorns!

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Give talks

Share work with the public

Collect / access data

Manage budgets

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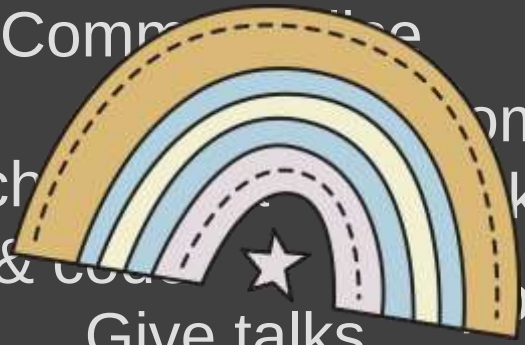
Host events

Visualisation

Manage a team

Interpret results



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