Evaluation of Automated Output Checking and AI Model Risk Assessment "SDC-REBOOT"

Reducing Barriers to Outputs frOm TREs

Professor Jim Smith, UWE

james.smith@uwe.ac.uk

On behalf of the Co-Chairs:

Jackie Caldwell

Lizzie Green

Felix Ritchie

Simon Rogers

Becca Wilson

Who were the initial group

- UWE (SACRO)
- Liverpool Uni (DataSHIELD)
- Public Health Scotland (eDRIS)
- NHS Services Scotland
- Edinburgh Uni. (DataLoch)
- Oxford Uni (OpenSafely)
- Uni Dundee (Health Informatics Centre)
- Durham Uni.
- Aberdeen (DaSH)
- Health Data Research UK
- Research Data Scotland
- Uni. Michigan (ICPSR)

- The German Human Genome-Phenome Archive
- GESIS – Leibniz Institute for the Social Sciences
- Scottish Longitudinal Survey/Scottish Centre for Administrative Data research
- UK Longitudinal Linkage Collaboration
- SAIL/ Dementia Platforms UK
- University College London

Original foci

1: Conceptual development and guidelines
- Statbarns concept
- SDC Processes
- Paradigms of automated assessment

2: Removing barriers to researchers
- Training resources
- Support for Stata, CRAN ...
- Research Mentors

3: Enabling adoption by TREs
- Training Resources
- Weekly Drop-in support
- 1:1 Meetings
- Peer Support

4: Risk assessment of Machine Learning models
- Training Resources
- Enhancing the AI-SDC toolkits
- 'Community of Expertise'

Community Activities: online

Sdc-reboot@jismail.ac.uk
48 subscribers
24 different organisations
Close to uk-tre-comm@jiscmail.ac.uk

2 'General' On-line workshops
(Jan, March)
2 AI-focussed online workshops
(Feb, March)
25-40 people in each

 Weekly drop-in help sessions

'Breakout' meetings with TREs and
different community members

You-tube channel
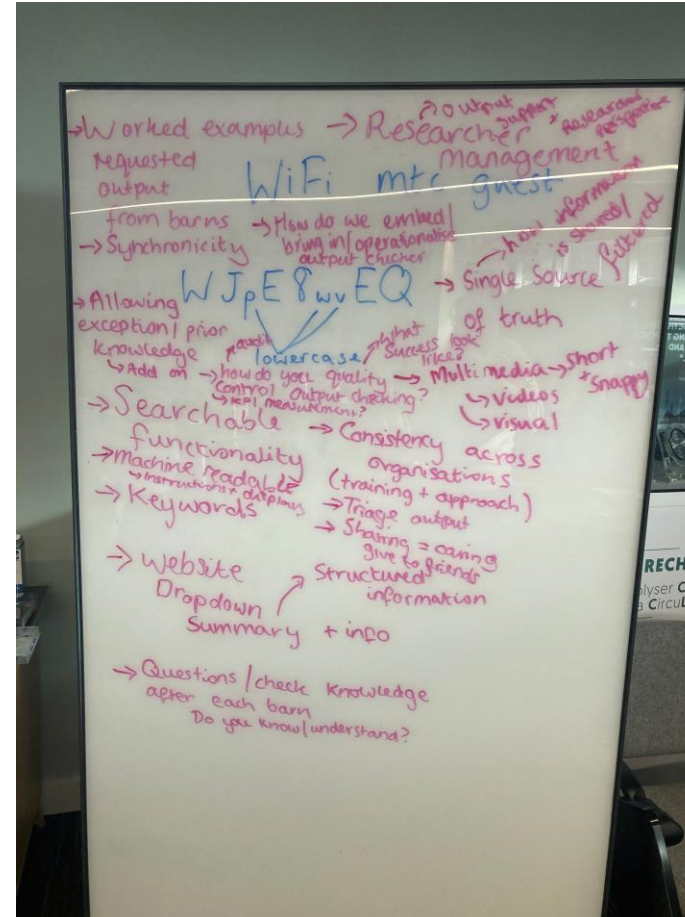Google drive folder of shareable
resources

Community Activities: In-person

Liverpool 25th/26th February

- 37 people
- 18 organisations
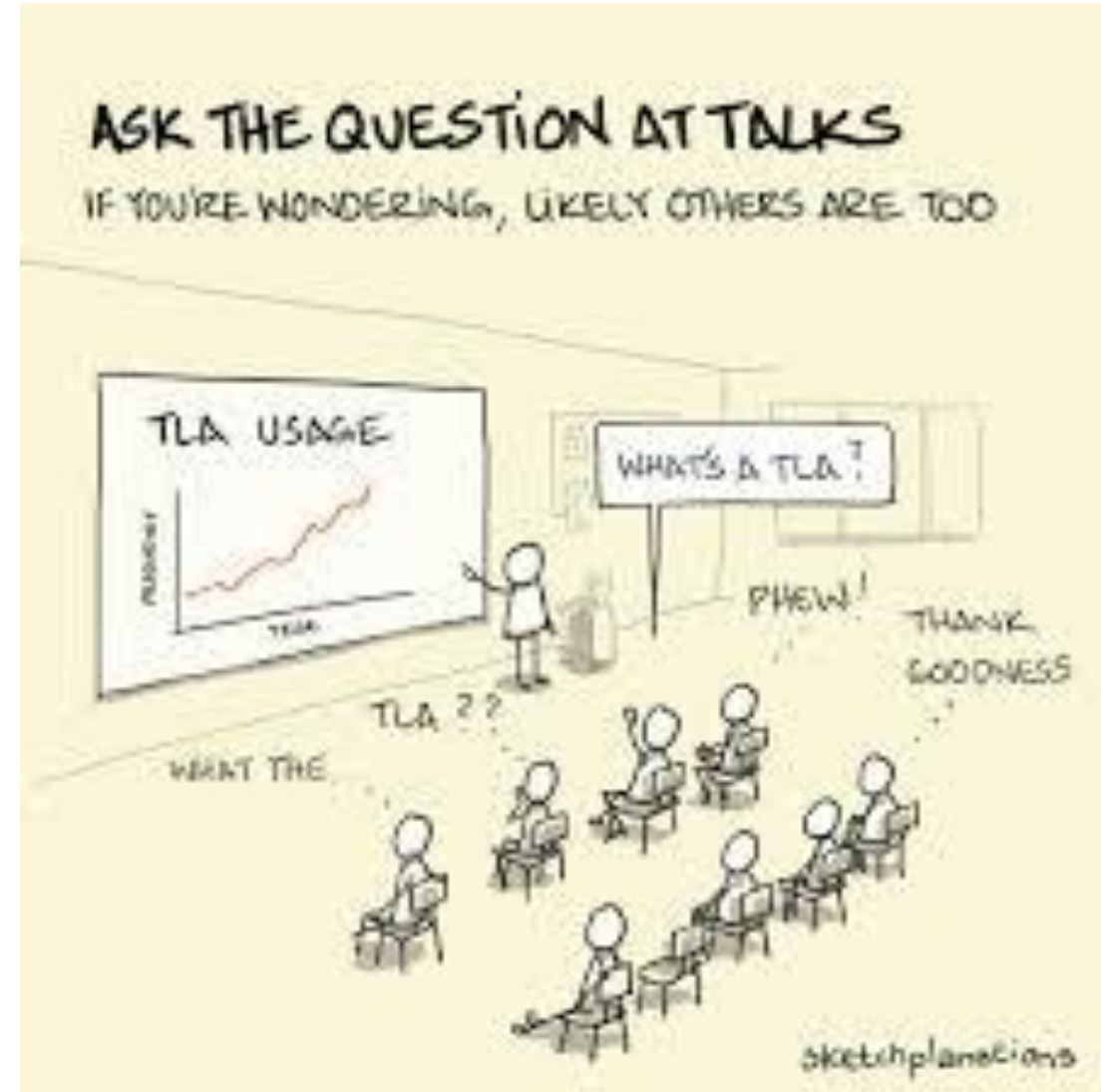- Statbarns
- Automated SDC paradigms

Retreat in Southampton (March)

- Focussed on SDC processes

Communities mean change

- Lots of new / nascent TREs SDEs got involved

- re-prioritised to reflect community needs

ASK THE QUESTION AT TALKS

IF YOU'RE WONDERING, LIKELY OTHERS ARE TOO

TLA USAGE

WHAT'S A TLA?

WHAT THE TLA??

PHEW! THANK GOODNESS

sketchplanations

https://sketchplanations.com/ask-the-question

What the community plans to do next

Quarterly meetings (next one in June)

Continued support and development of SACRO, AISDC and DataSHIELD
* includes bringing these into closer alignment

Ongoing initiatives about sharing
* Policies /practice for information governance of AI projects
* Case studies of risk assessment of AI models using the AISDC toolkits
* Expertise in AI risk assessment via 'Community of Experts'

More and better learning materials
* Especially as we grow the researcher user-base and can get their input

Join the community?

- SDC-Reboot@jiscmail.ac.uk DARE funded Community of Interest
  - Covers all things 'automated checking'
  - So necessarily covers all things relating to assessing AI models
  - Regular workshops, drop-in help sessions
- https://github.com/AI-SDC /
  - Open Source Repositories for the SACRO & AISDC tool
  - SDC-Reboot repository for hosting discussions and ideas

  https://datashield.org

  - https://datashield.discourse.group

Thanks for listening