



DARE UK

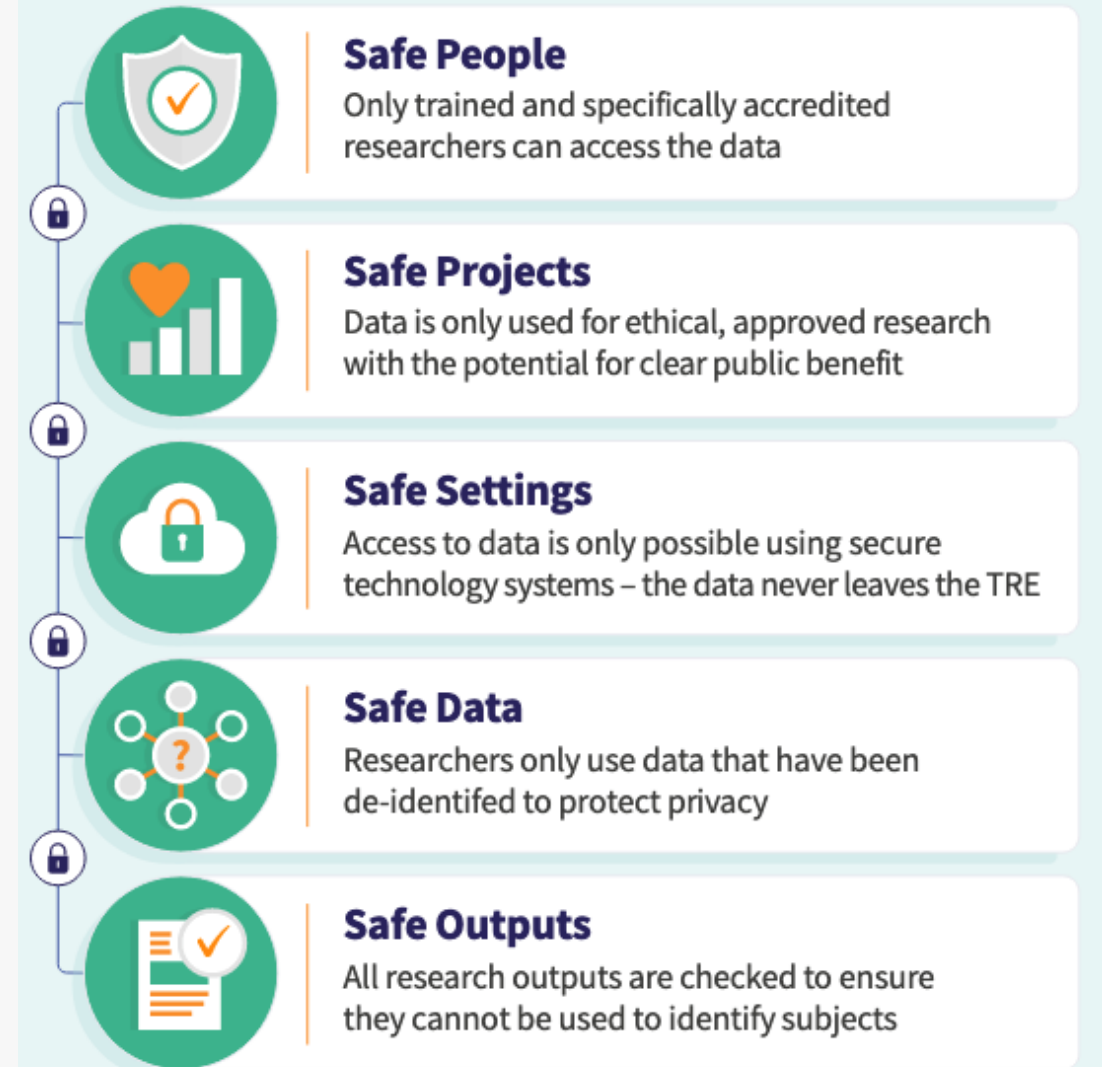
SATRE: Standardised Architecture for Trusted Research Environments

Dr Martin O'Reilly on behalf of the team



What Are Trusted Research Environments (TREs)?

- In different areas may be called: Data Safe Havens, Secure Data Environments or similar
- A computing service provided by a trusted organisation encapsulating the Five Safes



LANDSCAPE – What’s the current context?

TREs are the future for sensitive/health data research in the UK


Department of Health & Social Care

Policy paper
Data saves lives: reshaping health and social care with data
Updated 15 June 2022

A review commissioned by the Secretary of State for Health and Social Care

Better, Broader, Safer: Using Health Data for Research and Analysis

April 2022


UK Health Data Research Alliance

Building Trusted Research Environments v1.0 dated 8th December 2021

DARE UK

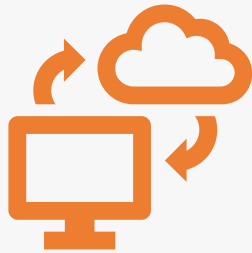
Paving the way for a coordinated national infrastructure for sensitive data research

A summary of findings to date from Phase 1 of the UK Research and Innovation DARE UK programme

August 2022

LANDSCAPE – What’s the current context?

There are currently a large number of TRE implementations in the UK, with many different approaches



Infrastructure choices

Cloud
On-prem



Development models

Community-driven
Commercial



Governance & Accreditation

Regulatory requirements
ISO27001, CE+, DSPT...
Risk appetites

Example production TREs: ONS, NHS England, Public Health Scotland, Scottish Safe Haven Network, SAIL Databank, Turing Data Safe Haven, Azure TRE... and many more...

DESIGN WORK - SATRE

Using a **community-driven approach** to build a **reference TRE architecture** and **accompanying implementation**



Learn & Explore



Simplify & Specify



Guide & Sustain

Transparency and Openness – Core Principle

Open Code/Resources:

- <https://github.com/sa-tre>
- <https://github.com/sa-tre/satre-specification>

Open Documentation:

- <https://satre-specification.readthedocs.io>

Open Communication:

- <https://medium.com/satre>
- satre-contact@dundee.ac.uk



The Specification - A guide on how to build and run a TRE

Four Architectural Principles

- Usability
 - Maintaining Public Trust
 - Observability
 - Standardisation
-
- 29 Capabilities
 - 160 statements
 - 75 mandatory

Four Pillars

- Information Governance
 - Computing Technology
 - Data Management
 - Supporting Capabilities
-
- Creates a uniform landscape for TREs to exist in
 - Evaluation of capabilities

<https://satre-specification.readthedocs.io>

Public Inclusion & Impact on Specification

- Embedded public voices within the project with lay representatives
- Six workshops held with members of the public
 - Two at start of project
 - Four to report on project progress
- Inclusion of public engagement statements on transparency and involving the right people in the right way
- Support for inclusion of a statement on near misses and incidents and the actions required by TREs
- Upgrading of the public engagement statements
 - Optional -> Mandatory* (required for personal data)
- Continuous focus on communicating SATRE's work in an accessible way



Stakeholder Activity: a truly community led specification

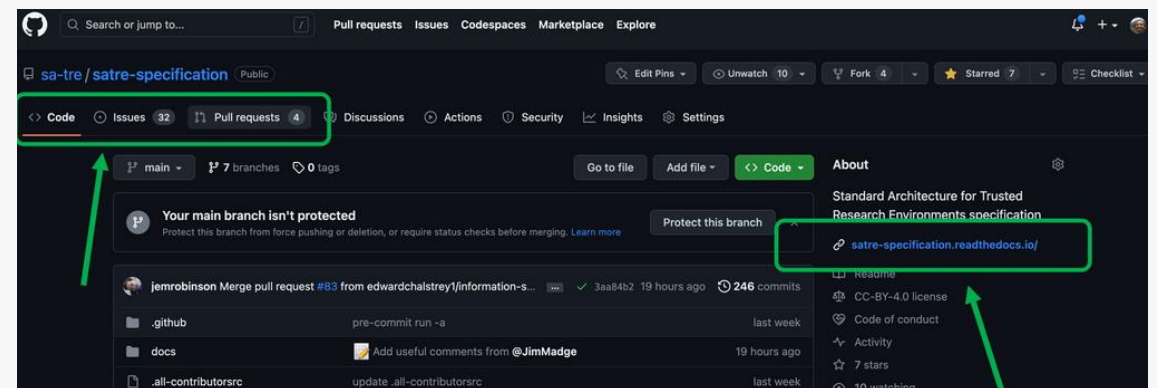
- A project based on conversation, compromise and review with the whole community
- Content, direction and delivery shaped by the community. For example:
 - Inclusion of IG as a pillar
 - SATRE principles
 - Why SATRE
- Two kick-off sessions in March
- Feature Survey
- [14 Collaboration Cafés](#)
- 25 contributors making direct changes to the content

🌟 Contributing to the SATRE Specification

We're excited that you want to contribute 🚀

Some ways to immediately get involved are:

- **Join a Collaboration Cafe:** These are online events where we discuss the specification and other TRE topics. They are a great way to meet other members of the community, find out more about the project, and are open to everyone.
- **Sign-up for email updates** from the SATRE project
- **Read the current SATRE specification**
- **Provide feedback and suggestions** on the specification:
 - If you are a GitHub user please **open or comment on an issue**
 - Alternatively, you can **fill in this form (no login needed)**



Find Out More

YouTube @HealthInformaticsCentre



Medium Blog: medium.com/satre

A screenshot of a Medium blog page. The top header is dark blue with the SATRE logo (the letters 'SATRE' in white with a red padlock icon) on the left. The main title is 'SATRE: Standardised Architecture for Trusted Research Environments' in white. Below it is a paragraph: 'SATRE (Standardised Architecture for Trusted Research Environments) is a DARE UK Driver Project working to standardise access to secure data in trusted research environments. It includes University of Dundee, Alan Turing Institute, UCL, Ulster University, Research Data Scotland.' Below this is a section for 'SATRE 1.0.0 Release' by Katie Oldfield, dated Oct 12, with a 2 min read indicator. To the right of this section is a small image of an open book and a profile card for 'SATRE: Standardised Architecture for Trusted Research Environments' with a description and a 'More information' link. Below that is a section for 'Using and implementing the SATRE Specification' by David Sarmiento, dated Collaboration Café 20th July. To the right of this section is a small image of people at a table and a profile card for 'SATRE' with 'FOLLOWERS 13' and 'ELSEWHERE'.





UK Research
and Innovation



DARE UK

Thank you for listening

<https://satre-specification.readthedocs.io>

satre-contact@dundee.ac.uk

medium.com/satre

