



## SATRE – Standardised Architecture for Trusted Research Environments

Dr Simon Li (on behalf of the consortium)





#### LANDSCAPE – What's the problem?

#### A large number of TRE implementations

Running on a wide range of infrastructure

- Public cloud (e.g. AWS, Azure, Google)
- On-prem (e.g. VMWare, OpenStack)

Ranging from open-source to commercially developed

Example production TREs: ONS, NHS England, Public Health Scotland, Scottish Safe Haven Network, SAIL Databank, Turing Data Safe Haven

#### Governance

Four vs one nation regulatory frameworks

## TREs are the future of sensitive/health data in the UK

- DARE/UKRI: "Paving the way for coordinated national infrastructure"
- HDR UK/NHSX: "Building TREs"
- Goldacre Review
- DHSC: "Data Saves Lives"





#### **Multidisciplinary Team**

#### **TREEHOOSE/AWS**



Dr Christian Cole (PI, AWS TRE)



Dr Simon Li (HIC, AWS TRE)

#### HDR UK



Prof. Emily Jefferson



Layla Robinson (RDS)

#### Public & Stakeholder Engagement



Antony Chuter Lay Participant

#### **Turing/Azure**



Prof. James Hetherington (UCL, Azure TRE



Dr Martin O'Reilly (Turing TRE)



Prof. Sonya Coleman (SMDH)



Dr Dermott Kerr (SMDH)



Dr Justin Quinn (SMDH)



Jilll Beggs Lay Participant



Hari Sood (Turing, SocRSE)



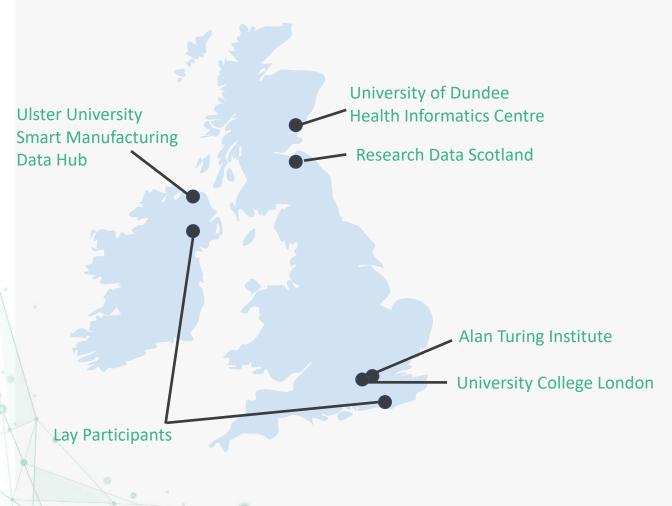
Dr James Robinson (Turing TRE)



Dr Cian O'Donovan (UCL, Azure TRE)



#### **Expertise & Background**



#### **Over 10 years TRE Experience**

• Local government, health, industry

### Worked on previous DARE projects

- TREEHOOSE & GRAIMATTER projects
- Ready to go
- Links with current DARE bids

#### **Test Benches**

- UCL/ARC: existing TRE expertise
- Ulster University/SMDH: long-running industrial manufacturing partnerships, £50m SMDH consortium

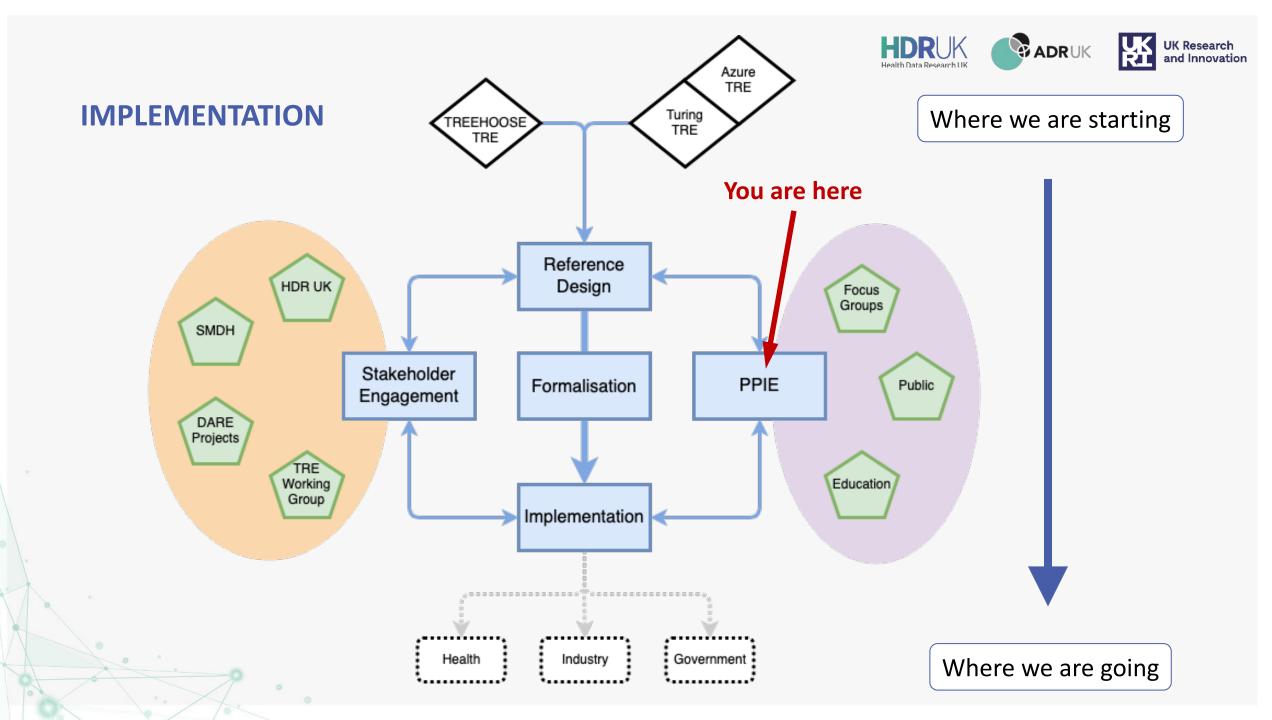




#### AIMS

- Combine the expertise of running multiple production TREs with existing public, community and stakeholder relationships across the UK to inform the needs and implementations of the reference TRE architecture.
- 2. Formalise the specification and validate against deployments of open-source TREs by HIC, Turing Institute, UCL and SMDH.
- 3. Establish a framework for long-term vendor-neutral **governance and management of the reference specification** beyond SATRE.







#### **Outputs & IMPACT**









TRE Explainer Material TRE Specification Documentation & Journal Publication(s)

Open-Source Reference TRE Implementations Community Governance Guidance

Mar-Aug 2023

Jun 2023

Aug-Sep 2023

Aug-Oct 2023





#### **Current Activities**

#### **Engagement with the wider secure data community**

- Survey UK-wide public organisations
- Joint meetings to develop the design to include all views: 2 events in March

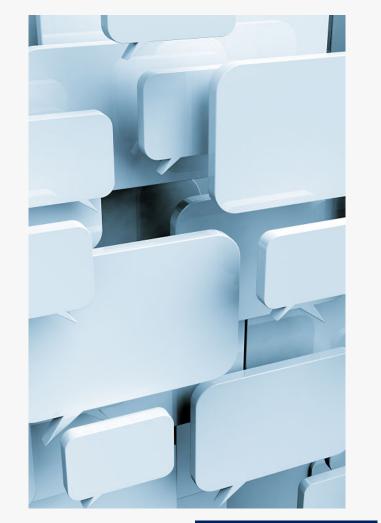
#### Two public participation workshops now with more later

• Week beginning 26<sup>th</sup> March

Developing informational media to launch in the next couple of months

#### Full transparency:

- <u>https://medium.com/@SATRE</u>
- <a href="https://github.com/sa-tre">https://github.com/sa-tre</a>







# DAREUK

## Thank you for listening

Contact us: <a href="mailto:satre-contact@dundee.ac.uk">satre-contact@dundee.ac.uk</a>

