UK Longitudinal Linkage Collaboration (UK LLC): The national Trusted Research Environment for data linkage in longitudinal research



Stela McLachlan¹, Katharine Evans², Rebecca Whitehorn¹, Rachel Calkin², Emma Turner², Jacqueline Oakley², Andy Boyd², Robin Flaig¹

¹UK Longitudinal Linkage Collaboration, Usher Institute, University of Edinburgh; ²UK Longitudinal Linkage Collaboration, Population Health Sciences, University of Bristol.

UK Longitudinal Population Studies (LPS)

A unique UK scientific tradition and resource

Participants are selected by shared characteristics

Participants followed up and observed repeatedly over time

Participants provide data within a consented relationship

300+ LPS; >5 million UK residents

Unparalleled depth and diversity of data collection

UK Longitudinal Linkage, Collaboration

Trusted Research **Environment**

(data linkage as a service)

>20 LPS >400,000 participants

Interdisciplinary & four nations follow up



NHS records

NHS England linked NHS Wales linked NHS Scotland Approved **HSC NI pending**

Socio-economic records

Permissions agreed and linkage being developed

Environmental, neighbourhood and property data

FREE TO USE

- De-identified data
- Free to ONS accredited UK-based researchers
- Access based on Five Safes model
- Public good with public review
- Requirements for reproducible research
- Data Access Agreement with all institutions

Accredited by:

ISO27001 Certified:



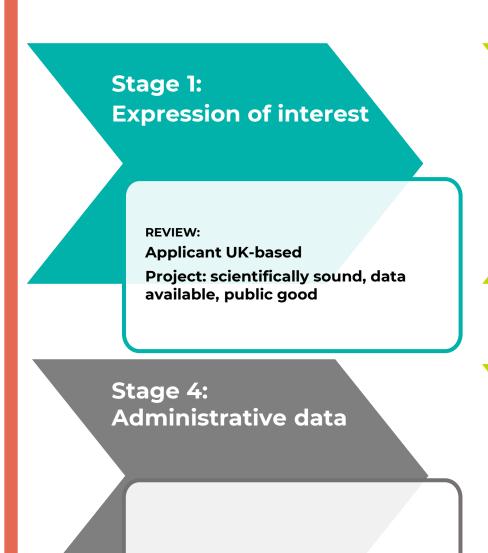


Approved by:

NHS Digital Data Security & Protection Toolkit org code: EE133799-LLC

Public involvement throughout our design & decision making

Application & Review Process



ONS Research Accreditation Panel

REVIEW: Five Safes access model ONS accredited Organisational Information Security evidence: ISO, DSPT, SLSP **Contracts**

Stage 2:

Full application

Data Access Agreement Data User Responsibility Agreement Stage 3: Present to public

> **Longitudinal Population Studies Data Access Committees Data Access Public Review Linked Data Review**

Data provision

Data provisioned in the TRE

THE UNIVERSITY

SeRP UK

PRUK

of EDINBURGH

Partner LPS:













































Led by:

University of BRISTOL

In partnership with:

















Our thanks to all the participants and staff in our contributing Longitudinal Population Studies and our NHS, Office for National Statistics and wider UK Government data providers.







Co-developed with our partner studies (Principal Investigators and **Data Managers).**



or email info@ukllc.ac.uk to join our mailing list





https://ukllc.ac.uk/





Explore data: https://explore.ukllc.ac.uk/ Data Documentation: https://guidebook.ukllc.ac.uk/

