



Introduction to transforming data management with the Harmony Data Tool workshop

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Transforming data management with the Harmony Data Tool: A hands-on introduction



Acknowledgment

These materials have been created as part of the [UK Data Service Skills Development for Managing Longitudinal Data for Sharing project](#) funded by the [Economic and Social Research Council](#) and the [Medical Research Council](#), an initial developmental project part of the [Population Research UK \(PRUK\)](#) initiative.

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Skills Development for Managing Longitudinal Data for Sharing Project

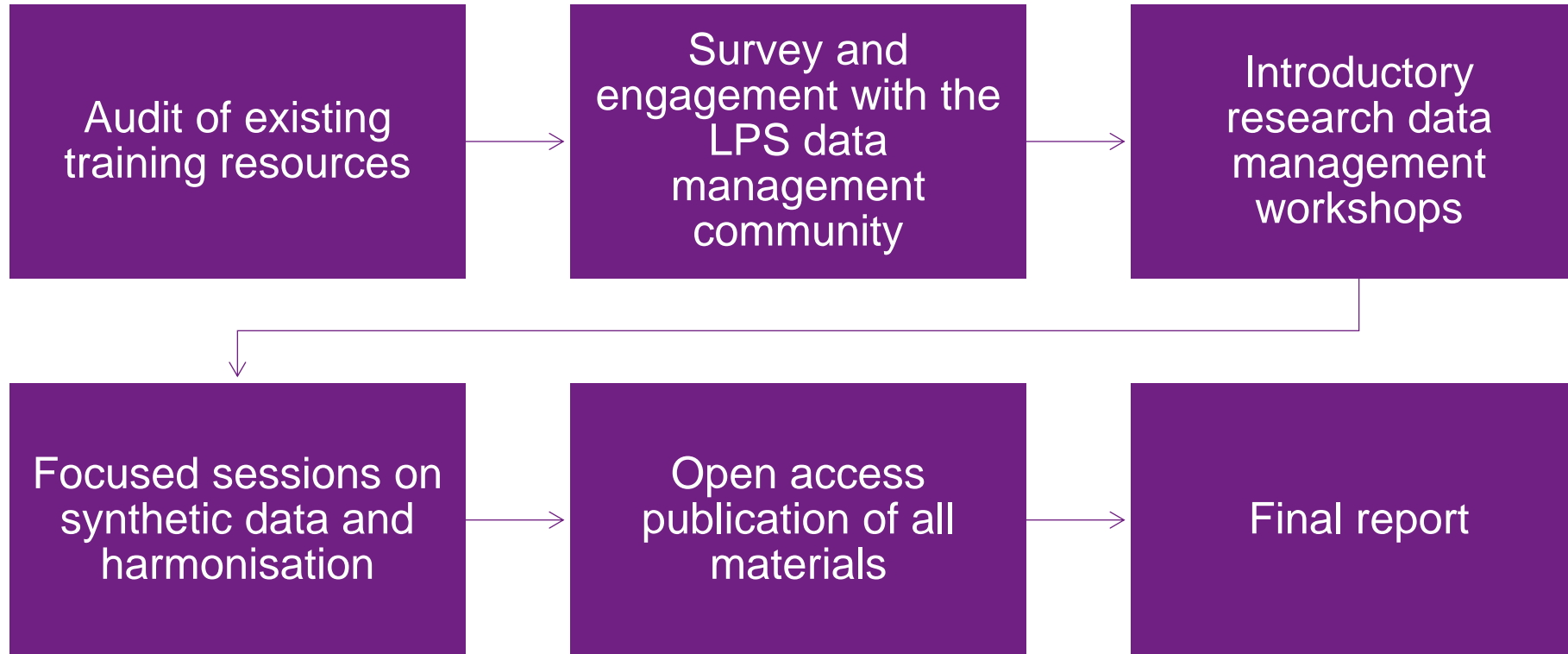
Skills development has been identified as a priority need within the LPS community.

Commissioned to undertake an investigation into data management training provision focusing on wider data sharing.

This project is an initial, developmental PRUK initiative.

[Visit the UK Data Service \(UKDS\) project webpage.](#)

Project work packages



UK Data Service



Hosts UK's largest collection of social, economic and population research data.



Provide users with access, support, guidance and training to facilitate high quality social and economic research and education.



A partnership between UK Data Archive at University of Essex, Cathie Marsh Institute for Social Research at University of Manchester, Jisc, UK, EDINA from University of Edinburgh, and the Department of Information Studies and Centre for Advanced Spatial Analysis at University College London.



Support the development of best practices for data preservation and sharing standards.



ukdataservice.ac.uk

Stats about UKDS

~ **9,700** data collections (1169 cohort and longitudinal studies)

~ **250** new data collections and new editions added each year

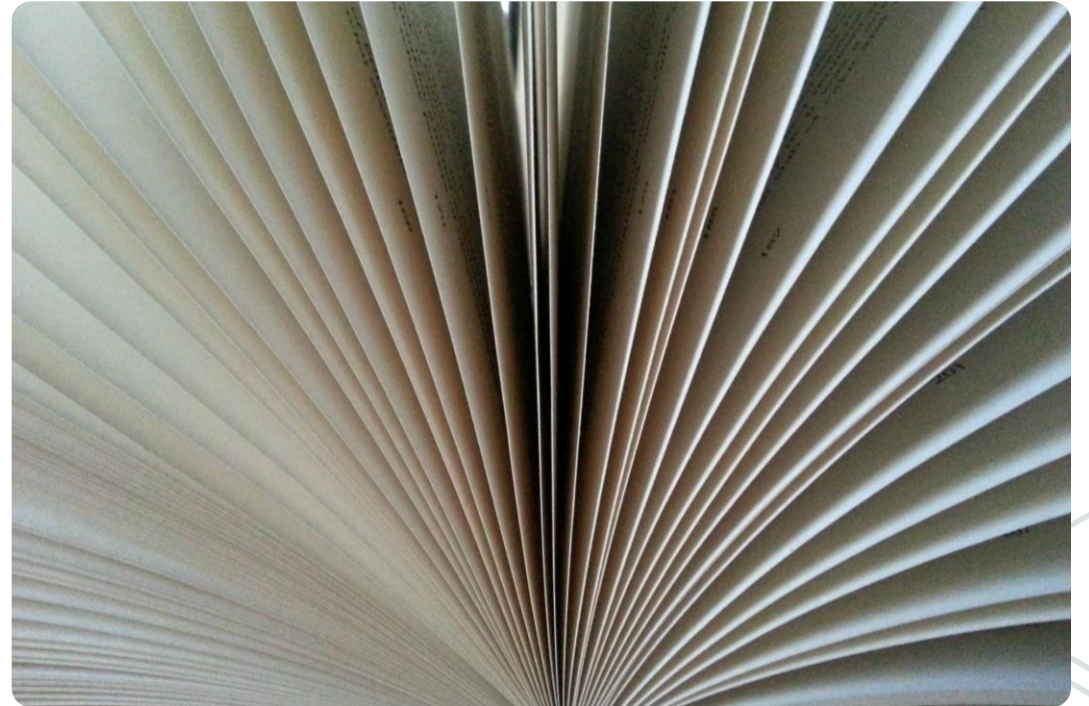
~ **48,000** registered users

~ **130,000** data accesses worldwide p.a

UKDS data collections are accessed every 6 minutes
24 x 7 x 365

Learning objectives

- Discover PRUK and its role in supporting longitudinal population studies, alongside the UKDS' contributions to promoting and supporting FAIR and responsible data sharing.
- Develop a foundational understanding of data harmonisation, particularly in the context of longitudinal population studies.
- Learn how the Harmony Data Tool facilitates the harmonisation of datasets through its web interface, R, Python, and API functionalities.
- Understand how the Harmony Data Tool supports more reliable data harmonisation workflows, enabling robust secondary research and cross-population comparisons.



Today's Programme

- [Population Research UK](#) introduction.
- Overview of PRUK UKDS [Skills Development for Managing Longitudinal Data for Sharing](#) project.
- Overview of data harmonisation (with a focus on longitudinal data).
- Introduction to [Harmony](#).
- Demo 1: Hands-on demonstration of the web-based version.
- Demo 2: Hands-on demonstration of the R version.
- Break
- Demo 3: Hands-on demonstration of the Python version.
- Demo 4: Hands-on demonstration of the API.
- Showcasing different use cases and integrations.
- Interactive Q&A.



Thank you.

