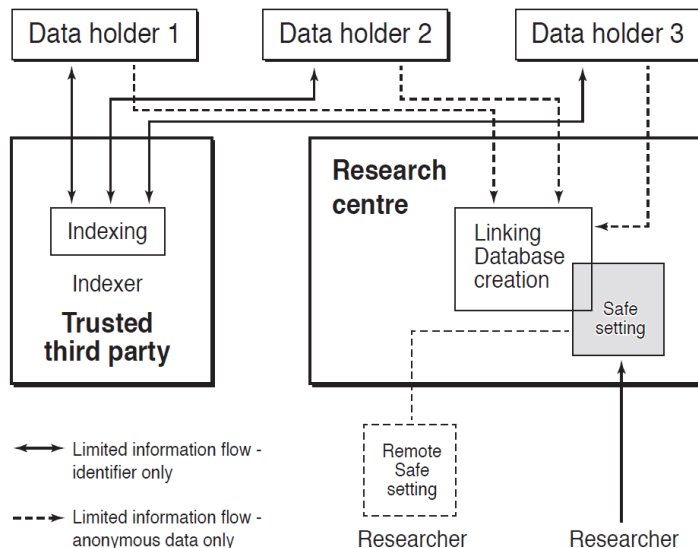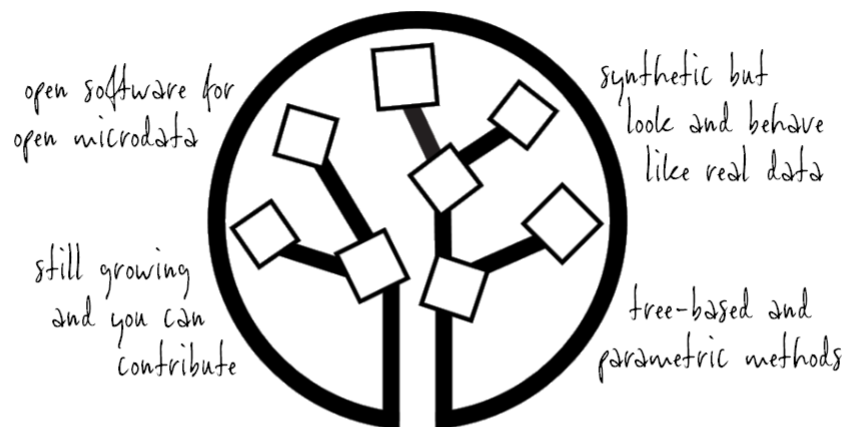# The Safe reuse of data

Prof. Chris Dibben

University of Edinburgh

5 safes – assessing the **data environment**

Privacy-ethical advisory bodies

Diagram showing Data holder 1, Data holder 2, Data holder 3 connecting to Indexing (Indexer, Trusted third party) and Research centre (Linking Database creation, Safe setting). Legend: solid arrow = Limited information flow - identifier only; dashed arrow = Limited information flow - anonymous data only. Remote Safe setting and Researcher boxes at bottom.

SCOTTISH CENTRE FOR ADMINISTRATIVE DATA RESEARCH

https://safepodnetwork.ac.uk/

2

open software for
open microdata

synthetic but
look and behave
like real data

still growing
and you can
contribute

tree-based and
parametric methods

synthpop

R package for generating synthetic
versions of sensitive microdata for
statistical disclosure control

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Observed vs. synthetic data

Chance of being a smoker