

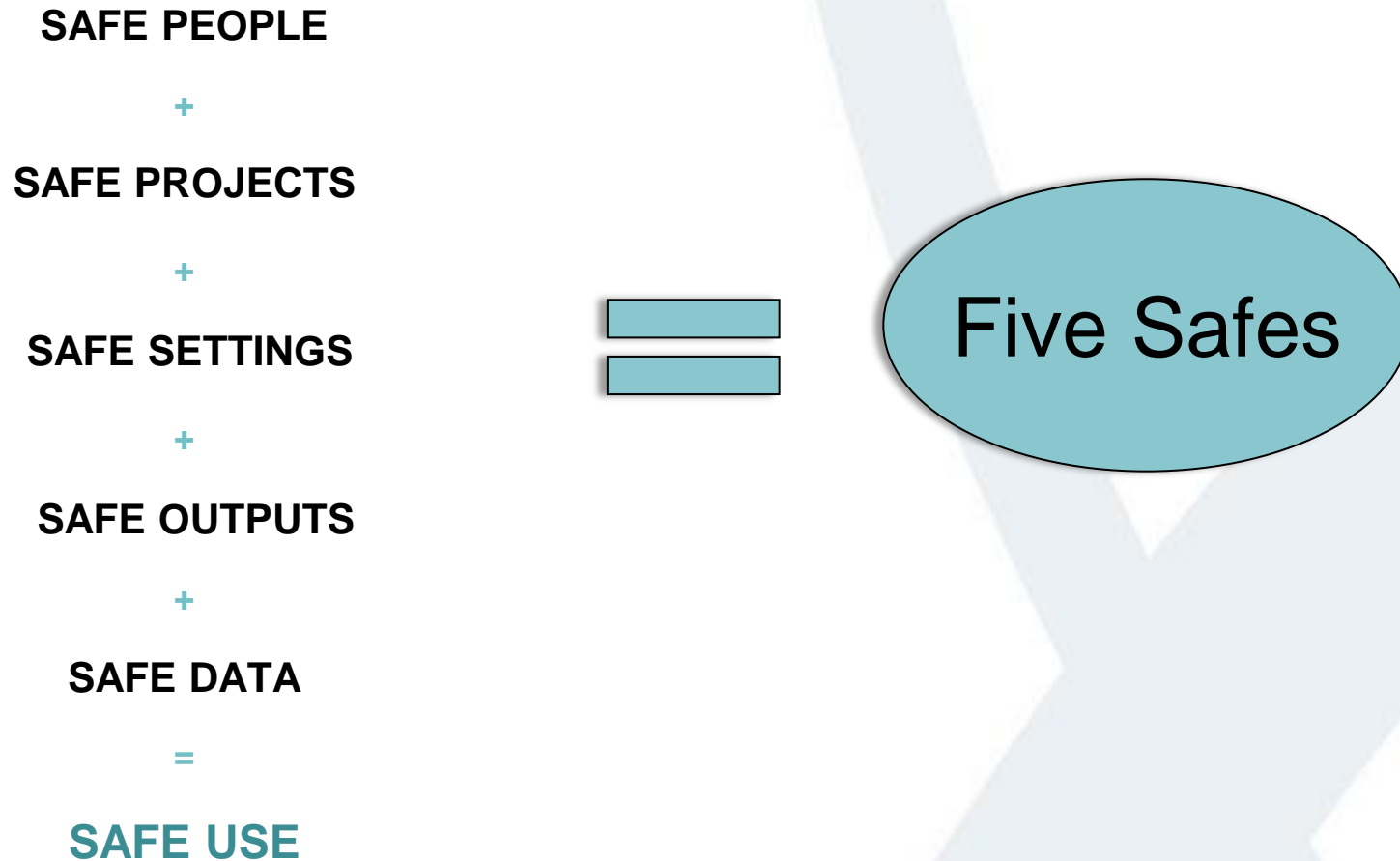
The Five Safes Framework

Pete Stokes

Head of Research Support and Data Access

The Five Safes

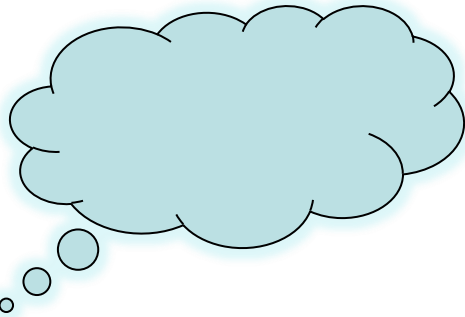
A set of controls and principle use to ensure safe use of data...



Safe People



Experience conducting research



safe attitudes towards data access



Able to use the data safely (demonstrates safe behaviours)

Safe people = users that are 'fit and proper' to access data

Safe Projects

LEGAL

A legal gateway

(Approved
Researcher
Scheme)

(Digital Economy
Act)

FEASIBLE

Clear & defined
scope

Realistic & time
bound

Appropriate use of
data

PUBLIC GOOD

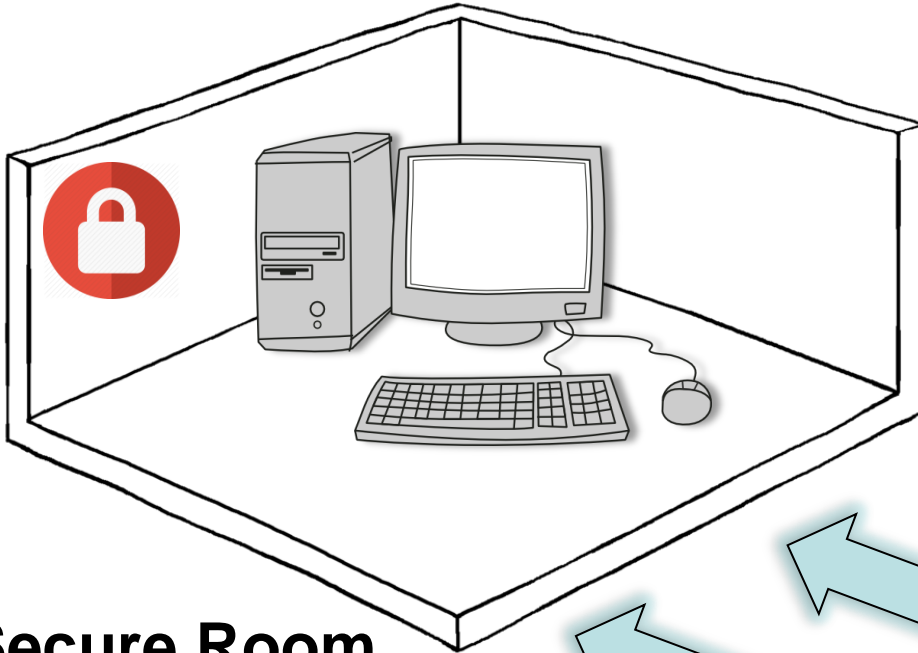
Benefits UK
economy/society

Improves UK
quality of life

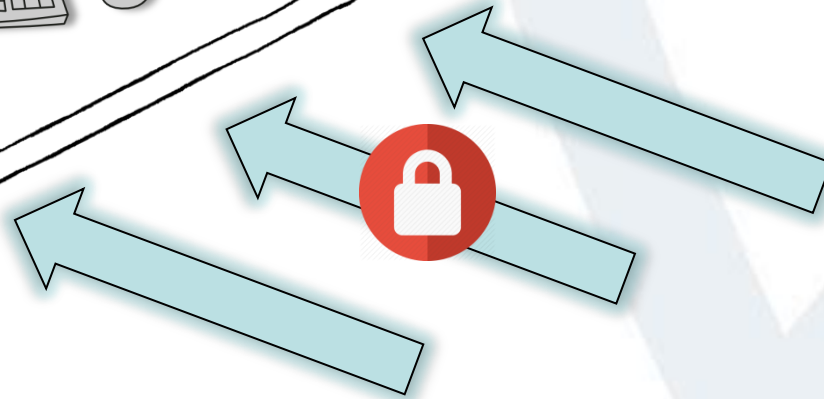
Extends
understanding of
social/economic
matters

Safe project = a project that is legal, feasible, and serves the public good

Safe Settings



Secure Room



Secure Connection



Secure Servers

Safe Outputs

Statistical Disclosure Control is the **risk management process** that reduces the risk of...

1) *Finding entities in data (identification)*

and/or

2) *Associating data with a entity (attribution)*

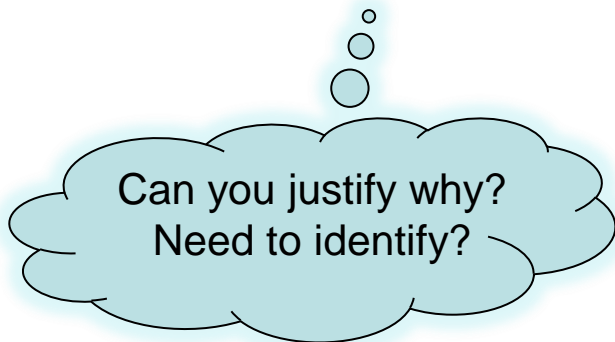
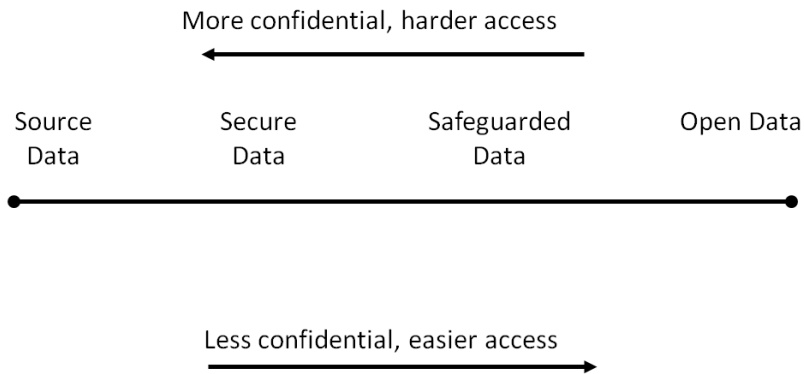


...to maintain the confidentiality of the data

Safe output = *non-disclosive and maintains the confidentiality of the data*

Safe Data

What **level** of data do you need?



Are the data **de-identified**?

Name	Date of Birth	Address	Car Registration, Model & Colour
Clara Boyd	09/06/1992	14 Nandos Road, SO15 7RE	HG13 GWV, Silver VW Golf
Amy Watts	04/07/1994	5 Sushi Cresent, SO16 9LP	HV58 YCD, Black Ford KA
Tony Chapple	01/06/1967	27 KFC Drive, PO16 9JB	HY55 YTB Blue BMW 1 Series

De-identified Data

Name	Date of Birth	Address	Car Registration, Model & Colour
Female	992	SO15 7	Silver VW Golf
Female	1994	SO16 9	Black Ford KA
Male	1967	PO16 9	Blue BMW 1 Series

Safe data = de-identified data that are proportional to their use

The Five Safes

DIGITAL
LEADERS

100

 Office for
National Statistics

Cyber Resilience Innovation of the Year 2017

The Five Safes