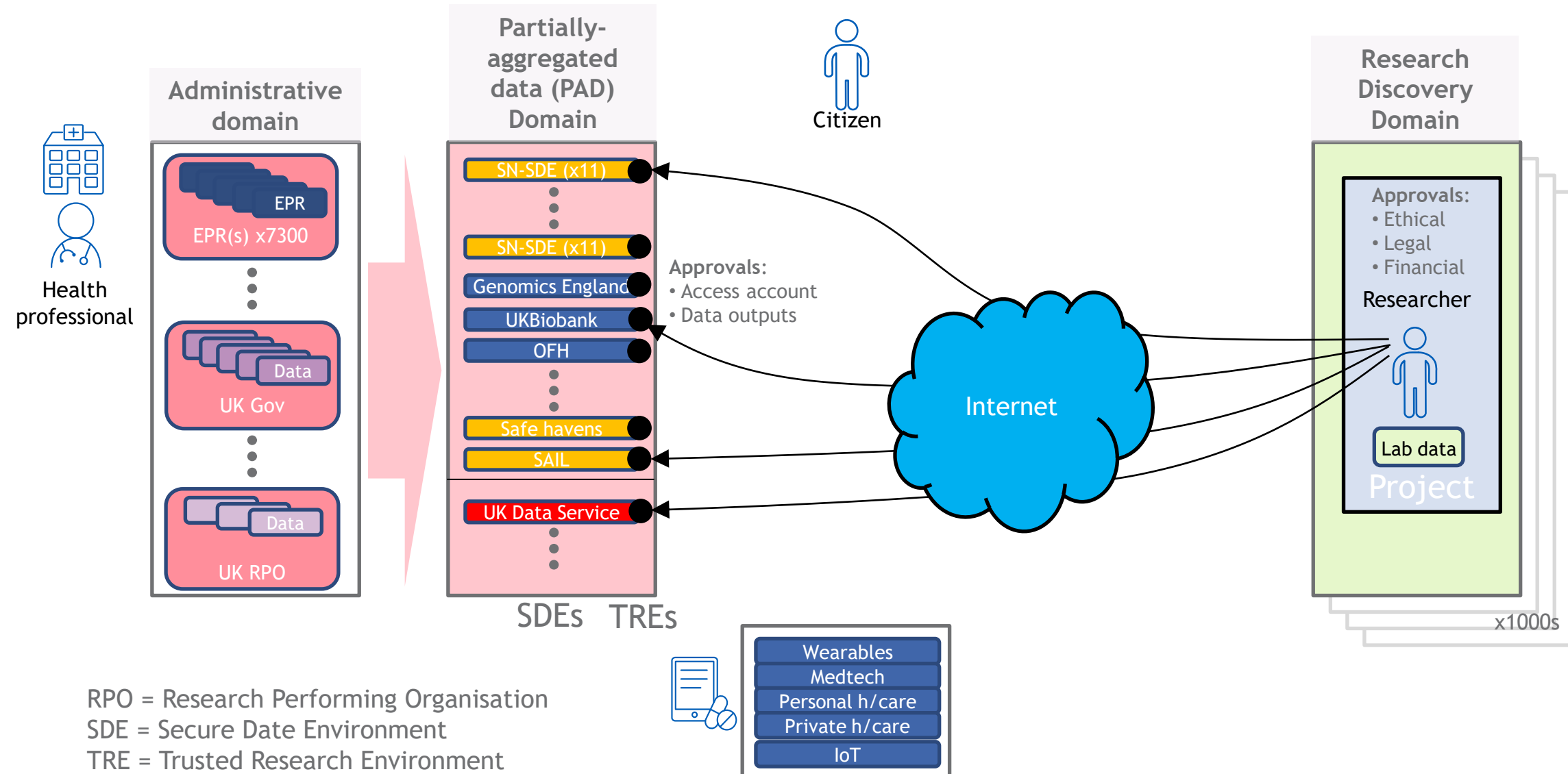


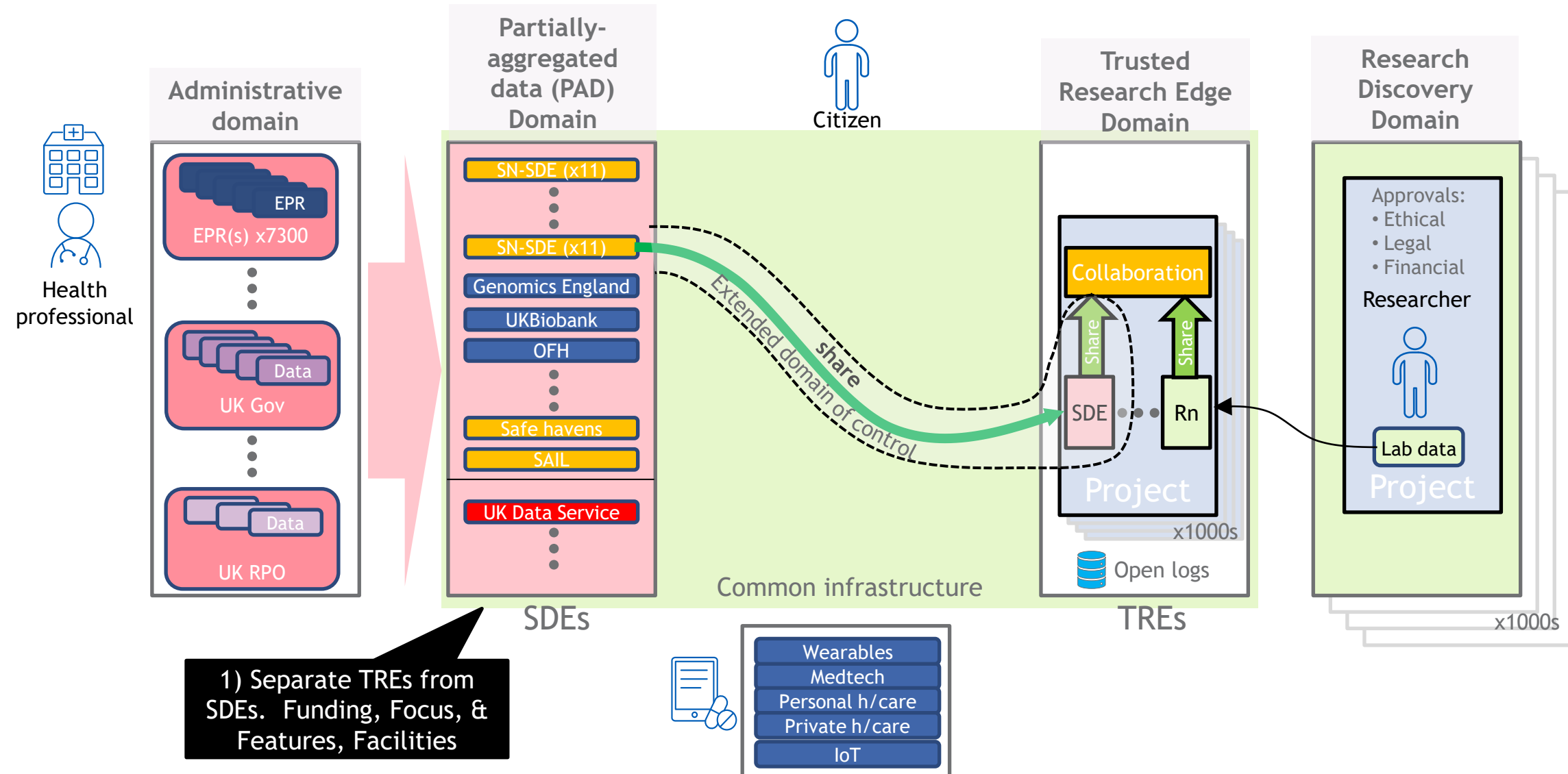
## The Data Domains: The Present Picture:

- \* Datasets have add-on TREs.
- \* Approved projects negotiate (again) for approved access. Data chain of custody fragmented.
- \* Duplication of admin, extending time to research output.



## The Data Domains: The Goal:

- \* Peer Connected SDEs to project TRE platforms. Orchestrated project configuration
- \* Open logs and analytics for infringement of data policies and risks.
- \* SHARE architecture - extending the control of SDEs into the collaboration projects.



# So emerging Definitions... needing a good “scrubbing”

See Crick TRE white paper: <https://doi.org/10.25418/crick.23626653.v1>

Object	Acronym	AKA	Definition
Secure Data Environment	SDE	Data Safe Haven	<ul style="list-style-type: none"><li>• A master repository of datasets.</li><li>• It curates data and has established ELT / ETL routines that collect this data from respected, definitive sources.</li><li>• It provides Info Governance to manage access from accredited TREPs as platform peer-peer partners.</li><li>• It makes views of its data for projects and shares these to the “projects via control of its TREP owned space in each project TRE. “Safe data”</li></ul>
Trusted Research Environment Platform	TREP		<ul style="list-style-type: none"><li>• This is a platform that has facilities to set up, manage and archive Project Trusted Research Environments (PTREs) and provides the “settings” for projects to operate.</li><li>• Research performing organisations become accredited to the TREP to operate their projects. “Safe projects”, “Safe people”</li><li>• It provides the facilities to add users into predetermined and defined roles within the Project TREs.</li><li>• It provides compute and storage resource, and monitors usage to allow usage /spend control and accounting / billing.</li><li>• Audit and Compliance reporting to enable projects to discharge their obligations.</li></ul>
Project TRE	PTRE		<ul style="list-style-type: none"><li>• The project TRE is specific to an individual Project and provides a dedicated controlled compute and storage facility for all the partners in the project.</li><li>• Each collaborating org in the project has their own private space connected to the collaboration / research project space.</li><li>• This enables people to work on projects to complete the research objectives within the ethical / legal and financial constraints / agreements.</li><li>• The project and project TRE has accountability for “safe outputs”.</li></ul>
Project			<ul style="list-style-type: none"><li>• ...</li></ul>
View			<ul style="list-style-type: none"><li>• ...</li></ul>

# An architecture for extending the domain of control - custody of data.

Axiom: Data chain-of-custody is a corollary of consent management  
How can this fit with SDE / TRE infrastructures?

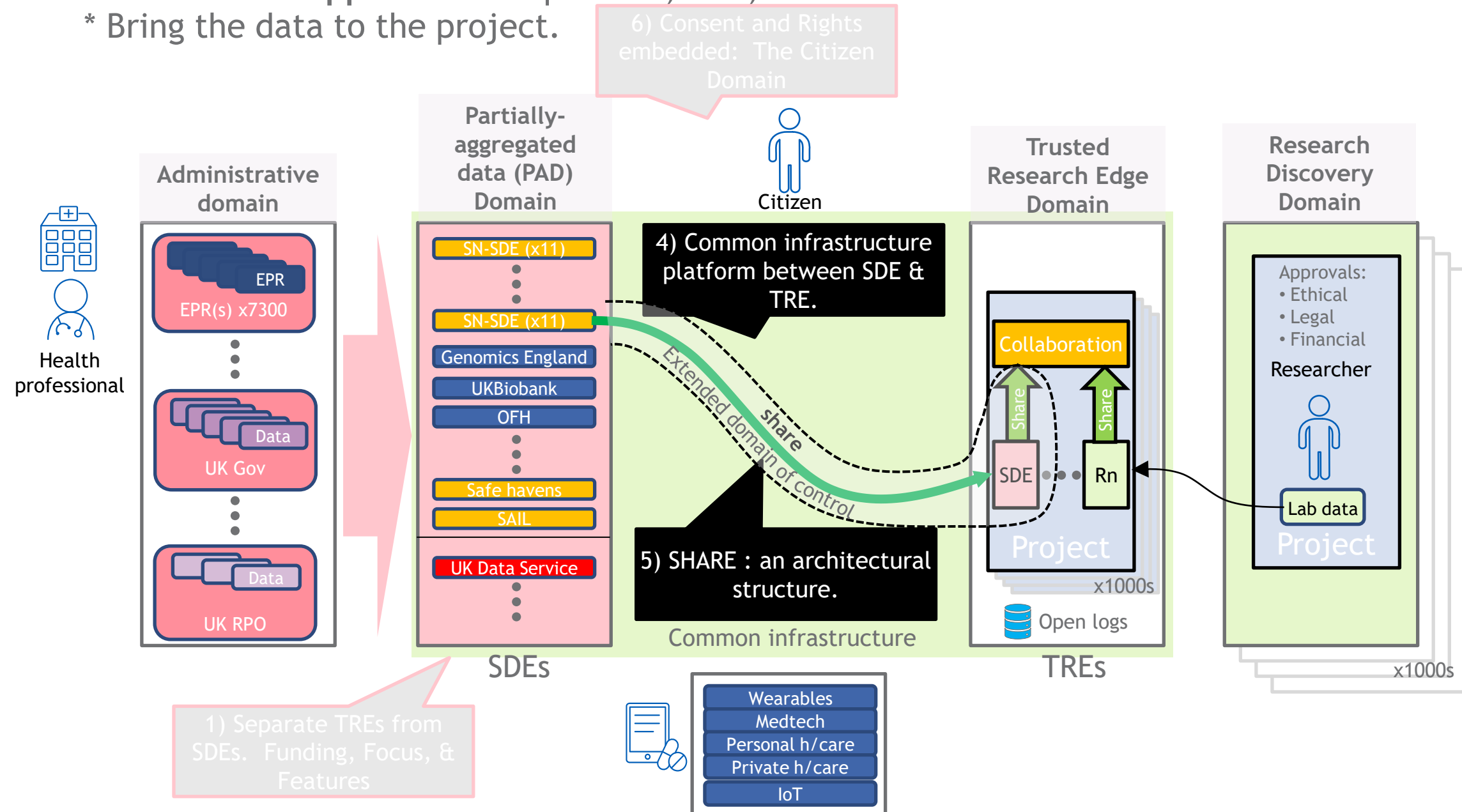
*Pete Barnsley, PhD*

*Head of Special Projects, ITO, The Francis Crick Institute*

- What technical architectures help **govern research data access** in a world with interconnected SDEs and TREs?
- How does **the citizen's "consent" to share** get implemented?
- How does the **SDE's domain of control** extend and connect to the project?
- What architectures offer this capability?
- How could the SDE and TRE interconnect?
- What are the pros and cons of each interconnect option?
- What would we propose should be built for the UK?

## Collaboration opportunities: points 1) to 6):

\* Bring the data to the project.



# An architecture for extending the domain of control - custody of data

## Lead:

Pete Barnsley (Head of Special Projects, Francis Crick Institute, London)

### 1. Set up a first open session in January

(to allow diaries **proposal is 10-11am Wednesday 10<sup>th</sup> and 2-3pm Tuesday 16<sup>th</sup>**)

- Expectations of people within the workstream
- Ideas and scope.
- Plan for completing output.
- Liaising with other related workstreams - e.g. Federation

### 2. Objective 1: Plan to present at the March TRE Community meeting

- Interim progress report.

### 3. Objective 2: White paper

- Recommendations for retaining “domain of control” and a “chain of custody” for data.
- Implications for national initiatives and on other TRE Community workstreams, e.g. federation.