

How can we increase access to data while retaining trust?

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theODI.org



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Contents:

1. **Introduction to the ODI** and its work on increasing access to data while retaining trust
2. What is ecosystem mapping and why could it be useful for data portability?
3. Mapping data portability ecosystems
4. Sharing the maps
5. Final thoughts

The team



**Dr Jeni
Tennison**
CEO

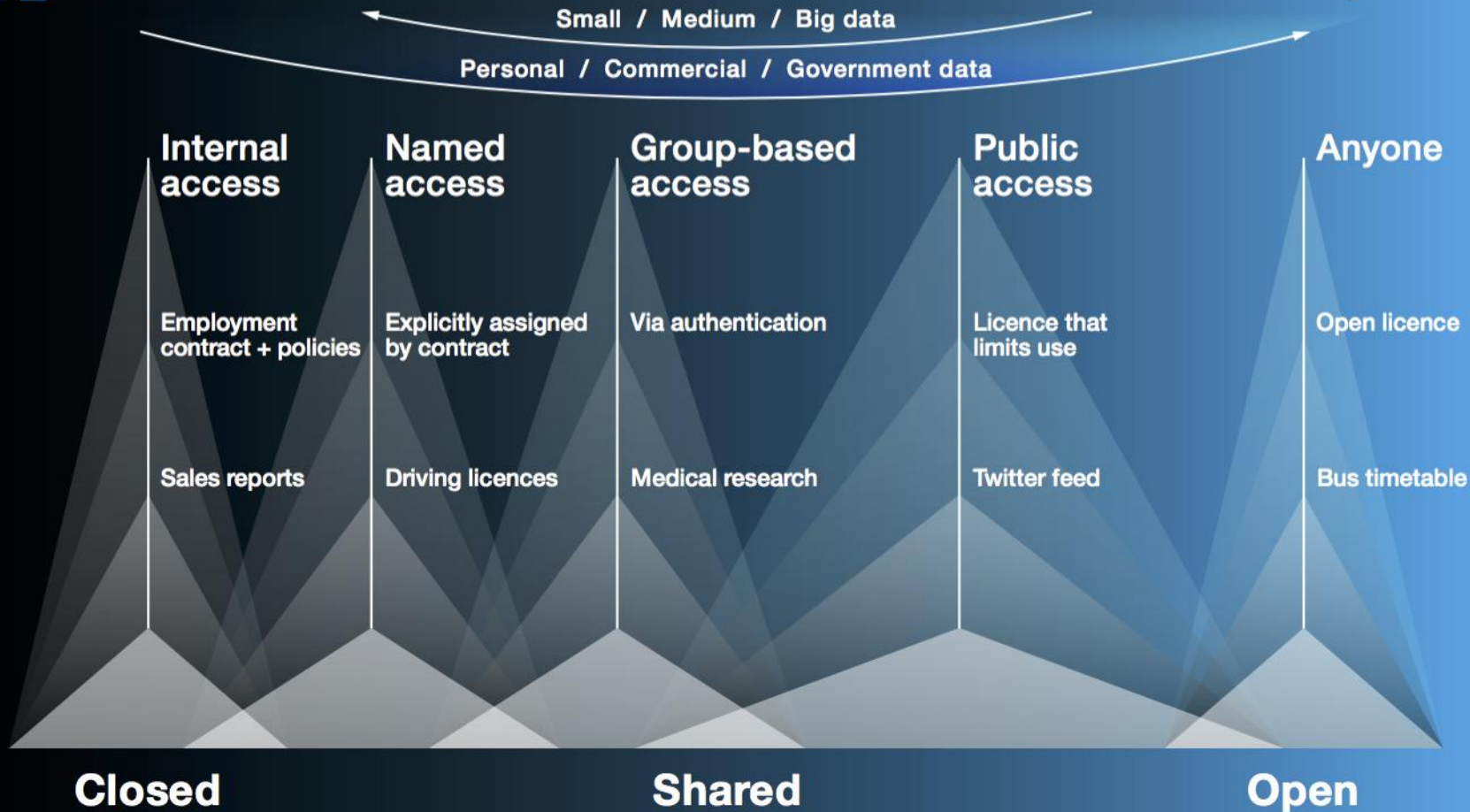


**Sir Nigel
Shadbolt**
Chairman



**Sir Tim
Berners-Lee**
President

Founded in 2012, the Open Data Institute (ODI) is an international, independent and not-for-profit organisation based in London, UK.



Our mission

We work with
companies and
governments to
build an open,
trustworthy data
ecosystem.

Our vision

**We want people,
organisations and
communities to
use data to make
better decisions
and be protected
from any harmful
impacts.**

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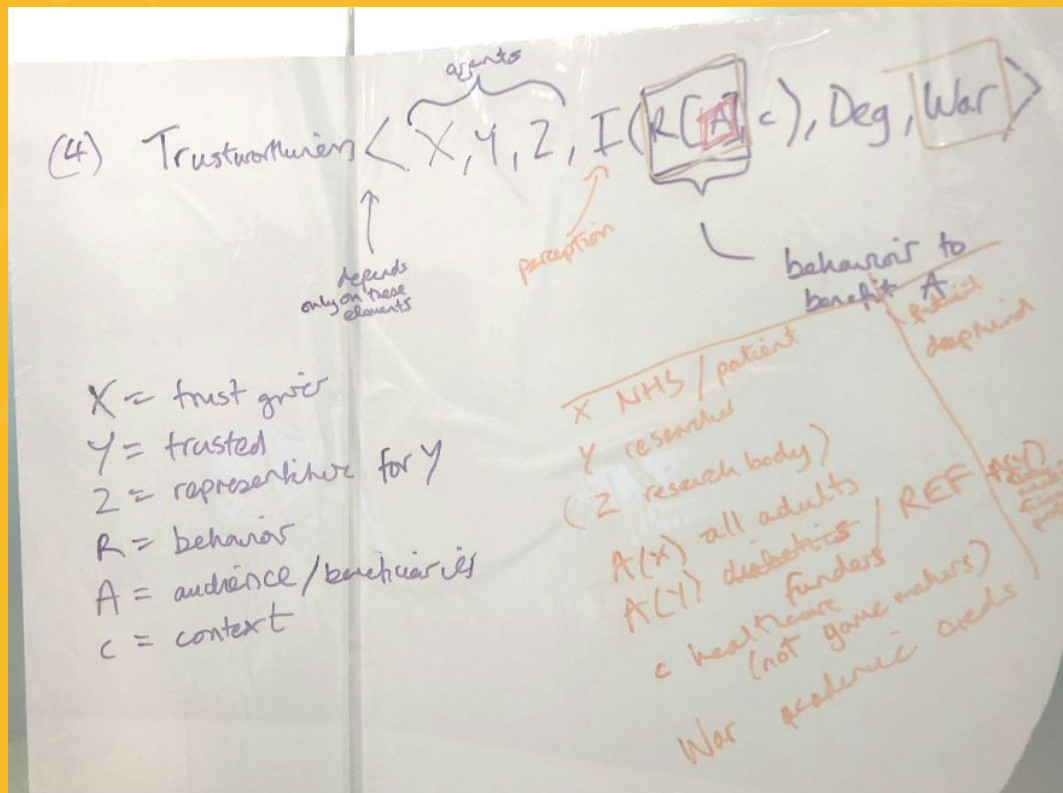
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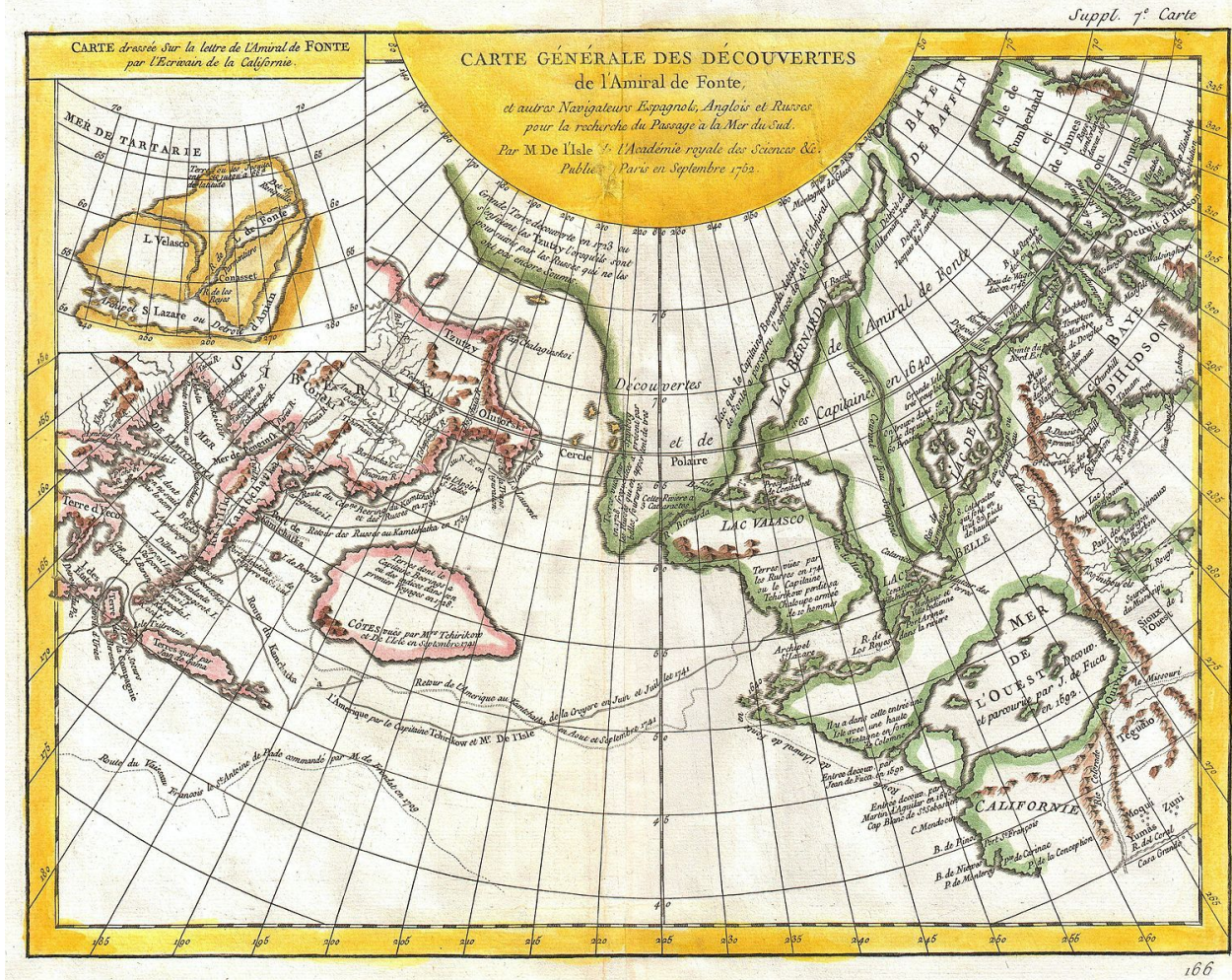
- Discovery
 - User research
 - Concept of trust research
 - Research into models for data access
 - Prevalent models
 - Rarer models
 - “Data trusts”
- Alpha
 - Prototyping...

Concept of trust

Courtesy of Kieran O'Hara

<https://theodi.org/article/framing-for-our-thinking-about-trust/>





1:1 contractual
agreements

Multiparty
contractual
agreements

personal data
rights
ecosystems

regulatory
access

research
access
schemes

open data (yay!)

platforms

portals

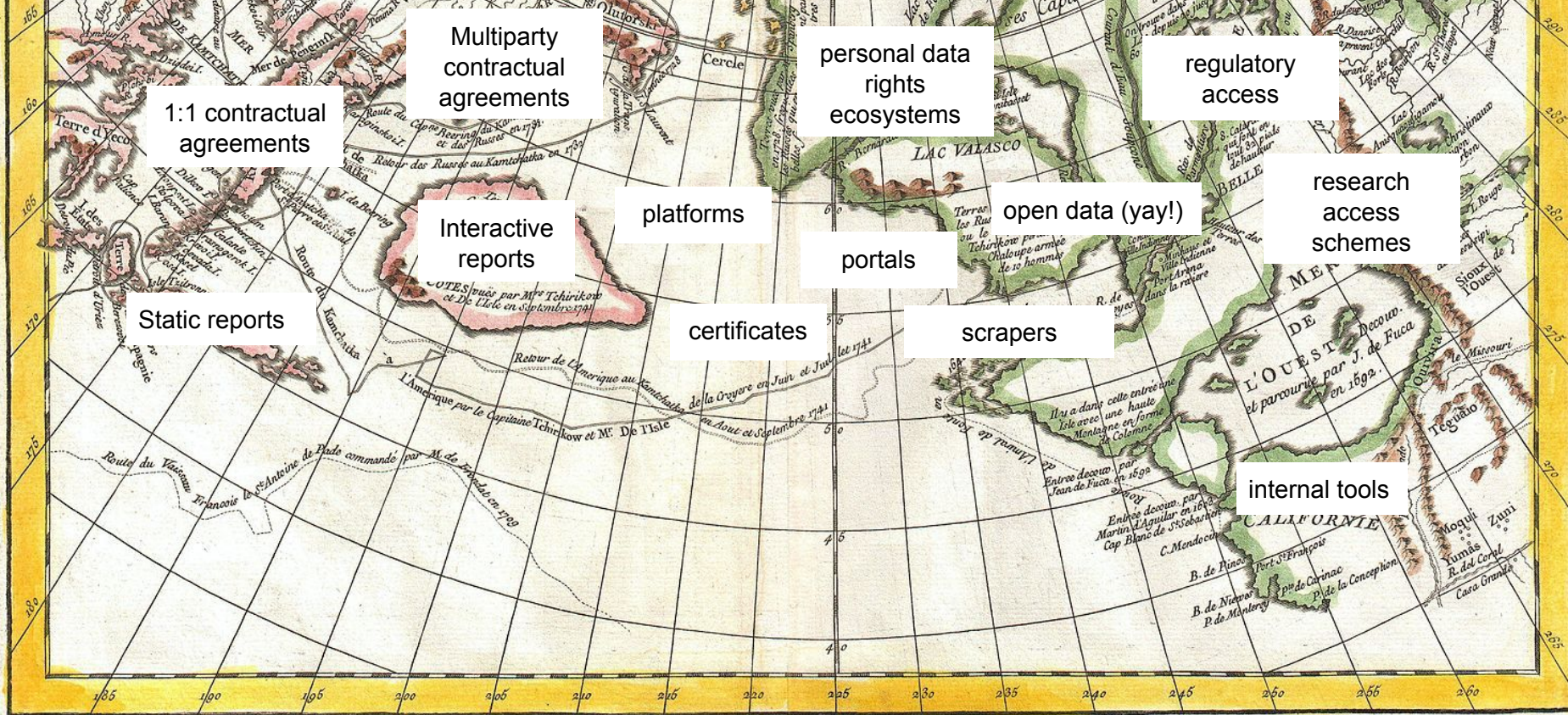
certificates

scrapers

Interactive
reports

Static reports

internal tools



CARTE dressée Sur la lettre de L'Amiral de FONTE
par l'Ecrivain de la Californie.

An incomplete mappe of ye data access models

de l'Amiral de Fonte,

*et autres Navigateurs Espagnols, Anglois et Russes
pour la recherche du Passage à la Mer du Sud.*

Par M. De l'Isle de l'Académie royale des Sciences &c.

Publié à Paris en Septembre 1762.

blockchain /
DLT

personal data
marketplaces

data trusts

data commons

data
marketplaces

data cooperatives

Multiparty contractual agreements

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We found five groups of definitions:

- A data trust as a repeatable framework of terms and mechanisms
- A data trust as a mutual organisation
- A data trust as a legal structure
- A data trust as a store of data
- A data trust as public oversight of data access

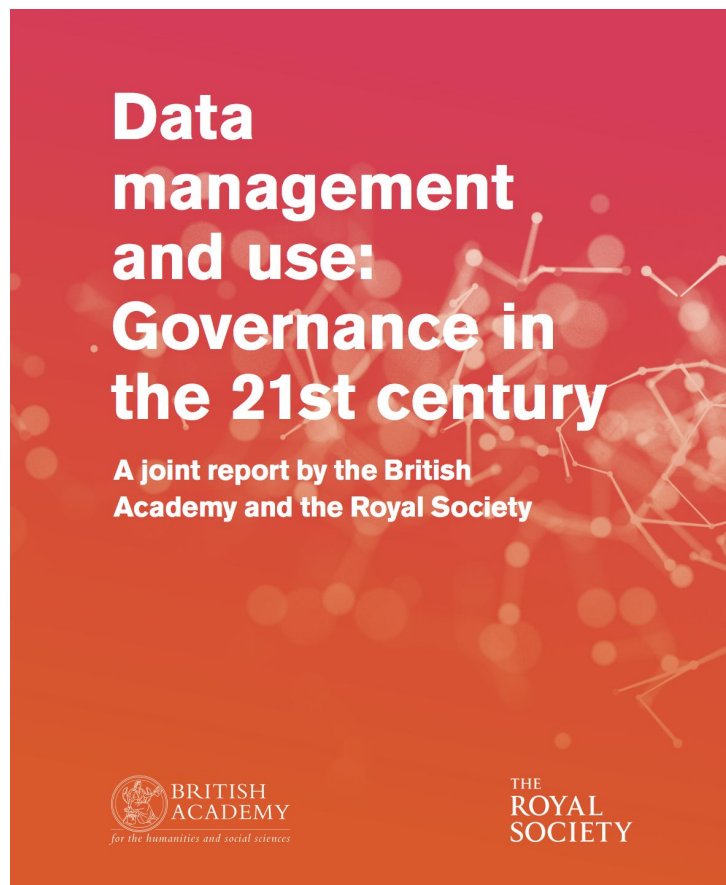
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In a UK context...

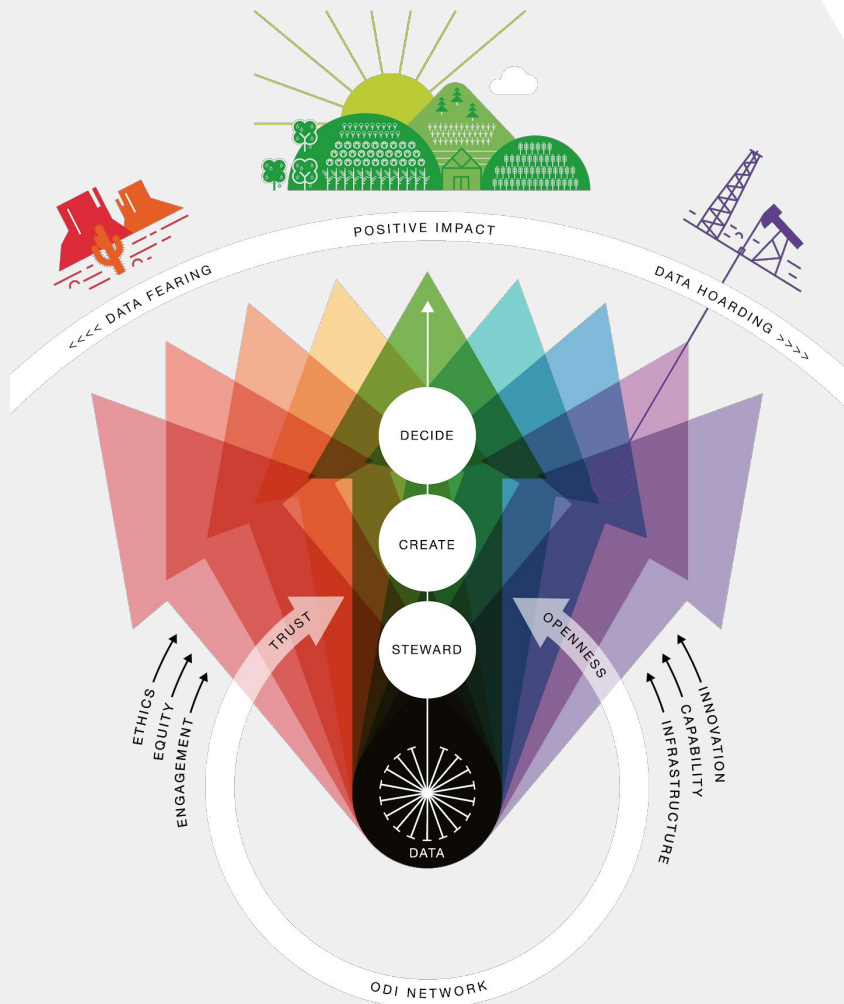
Promotion of human flourishing

Key principles:

- ▶ protect individual and collective rights and interests
- ▶ ensure that trade-offs affected by data management and data use are made transparently, accountably and inclusively
- ▶ seek out good practices and learn from success and failure
- ▶ enhance existing democratic governance



A "Good" data trust should align with our theory of change



Data infrastructure principles:

- Design for open
- Build with the web
- ~~Respect privacy~~ Respect rights
- Benefit everyone
- Think big but start small
- Design to adapt
- Encourage open innovation

**A data trust
must abide by
data
infrastructure
principles and
have:**

- **a clear purpose**
- **a legal structure, constitution & trustees**
- **(some) rights and duties over stewarded data**
- **defined decision making processes**
- **a description of how benefits are shared**
- **sustainable funding**

**How do we do
test it...**

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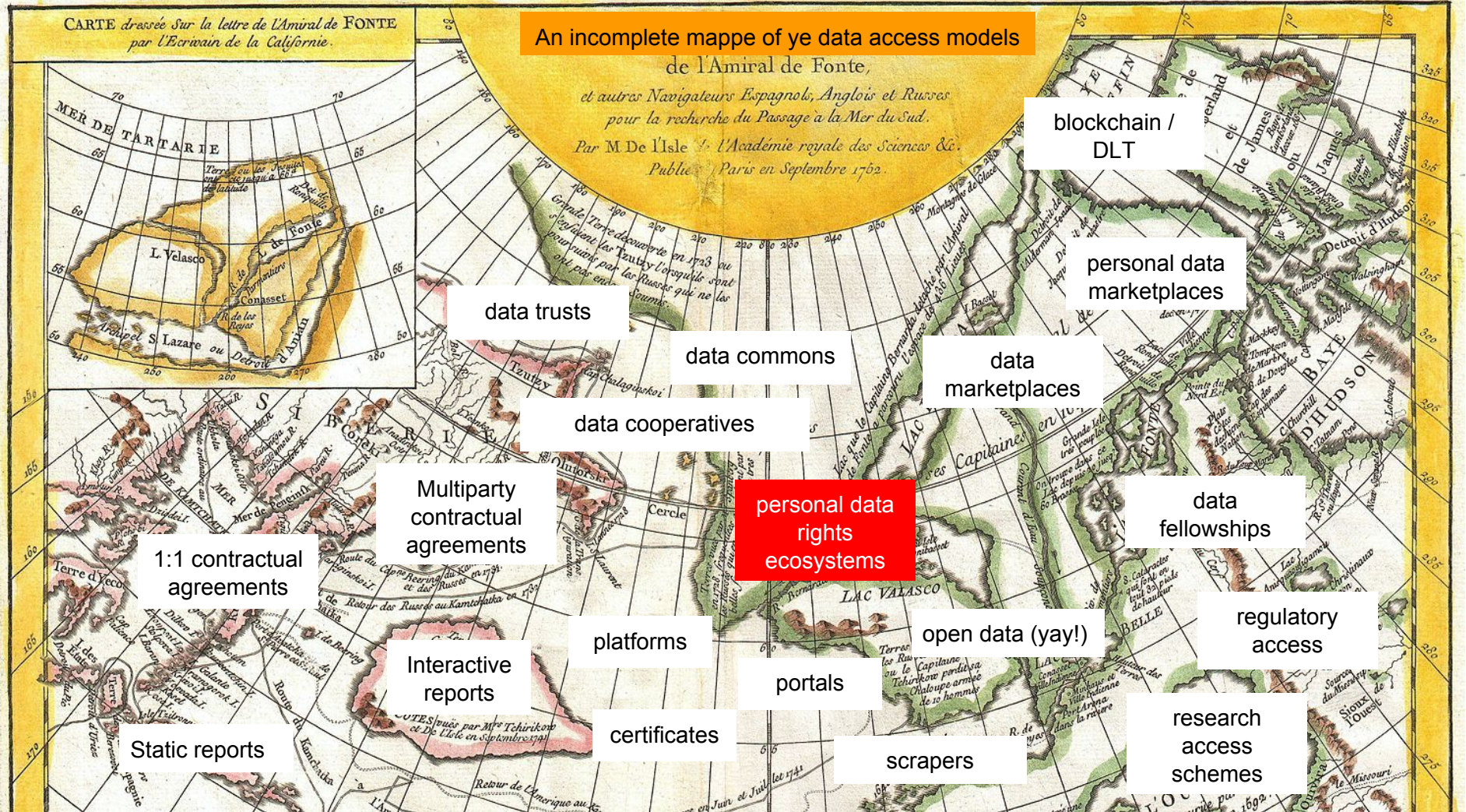
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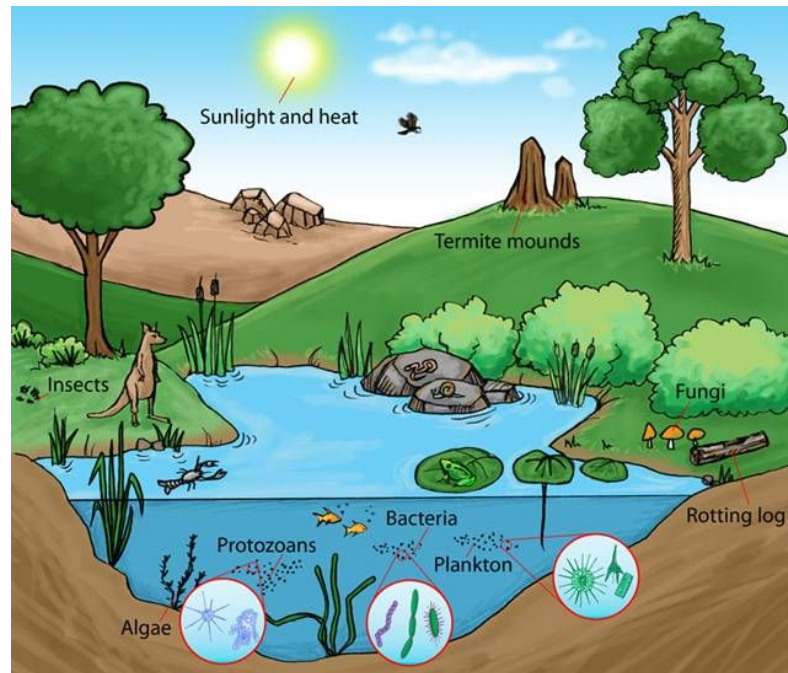
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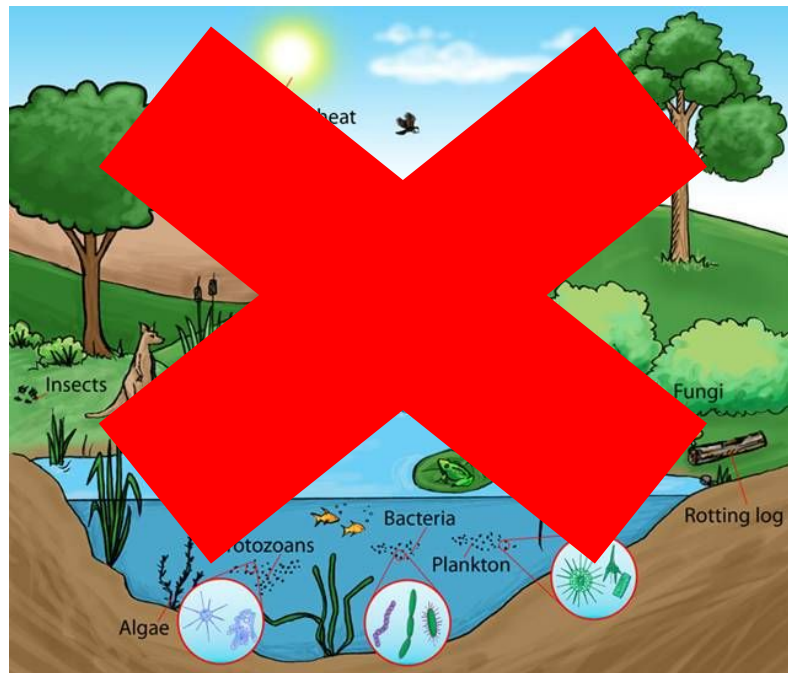
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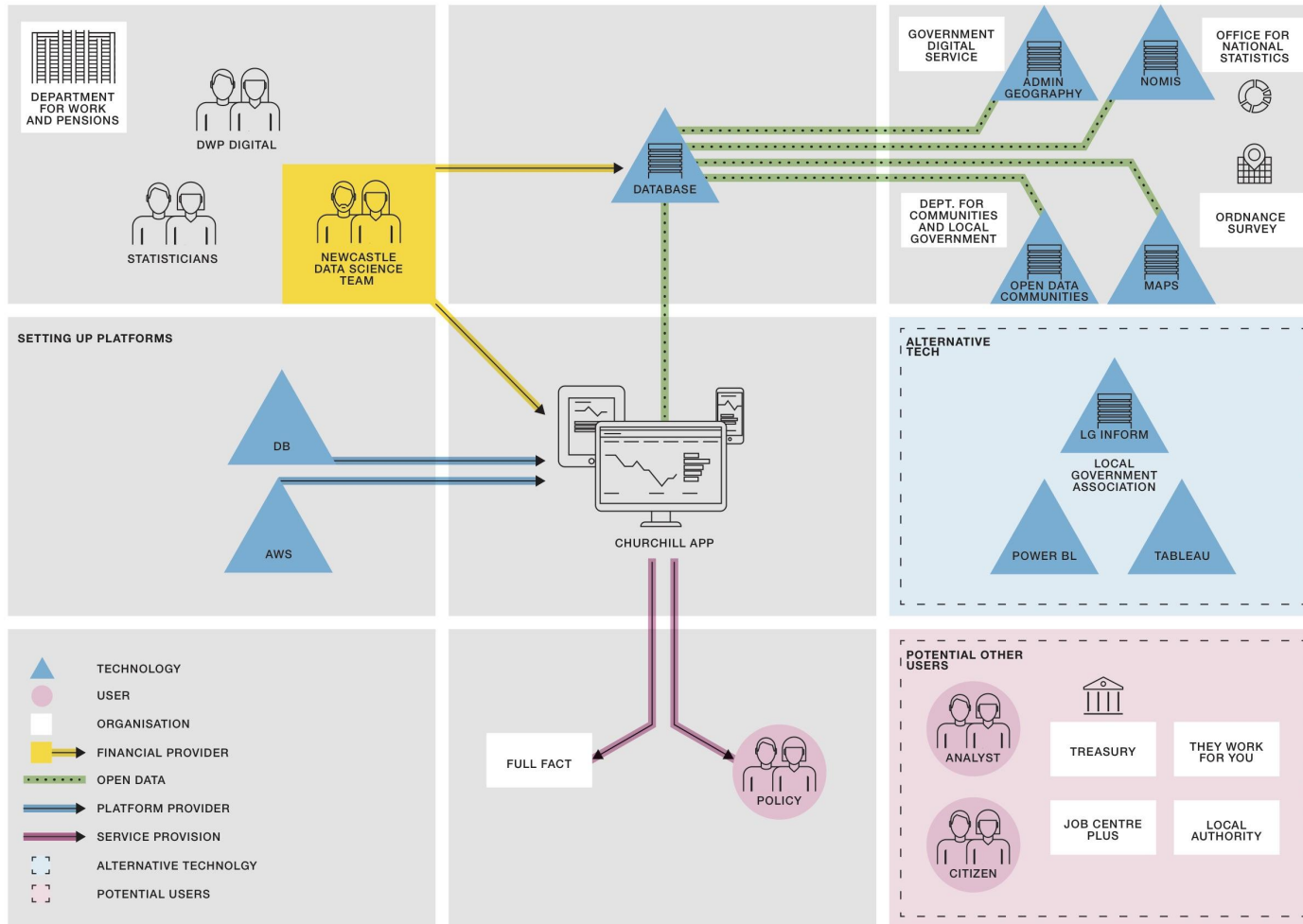
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Data ecosystem maps help to visualise, understand and communicate how data is published, accessed, shared, and used by different people and organisations.

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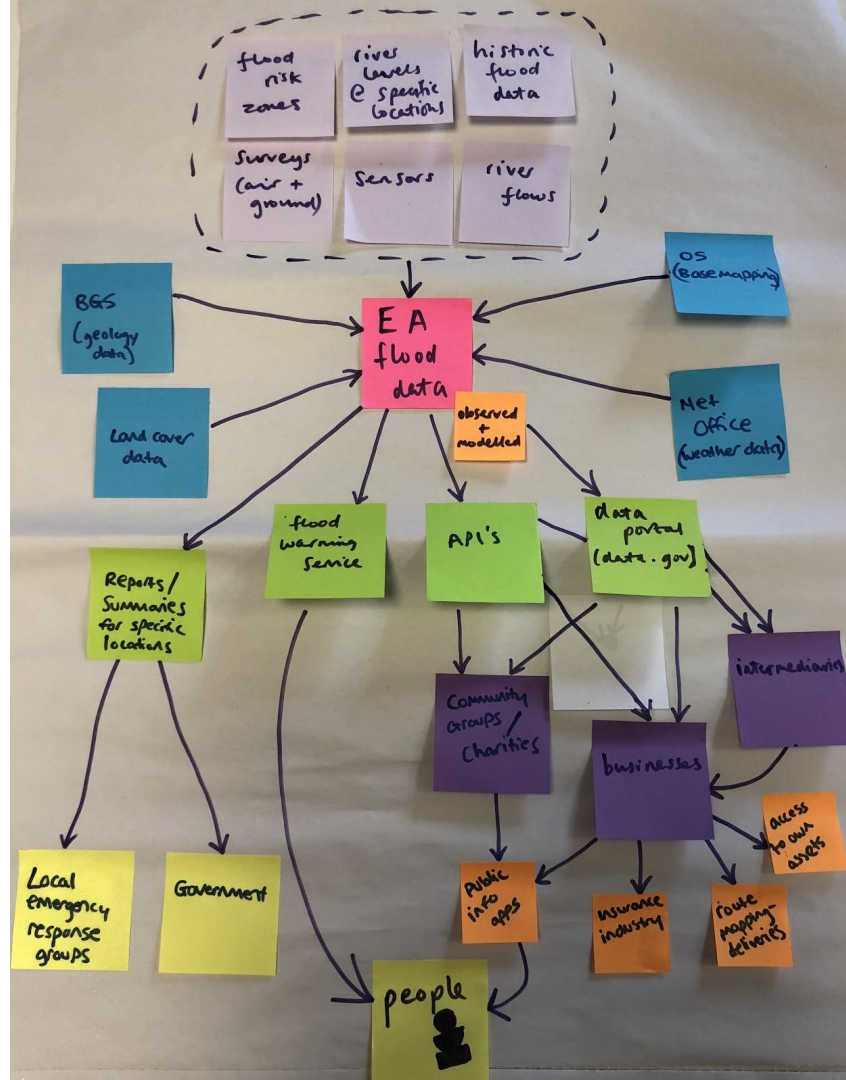
Data ecosystem maps include:

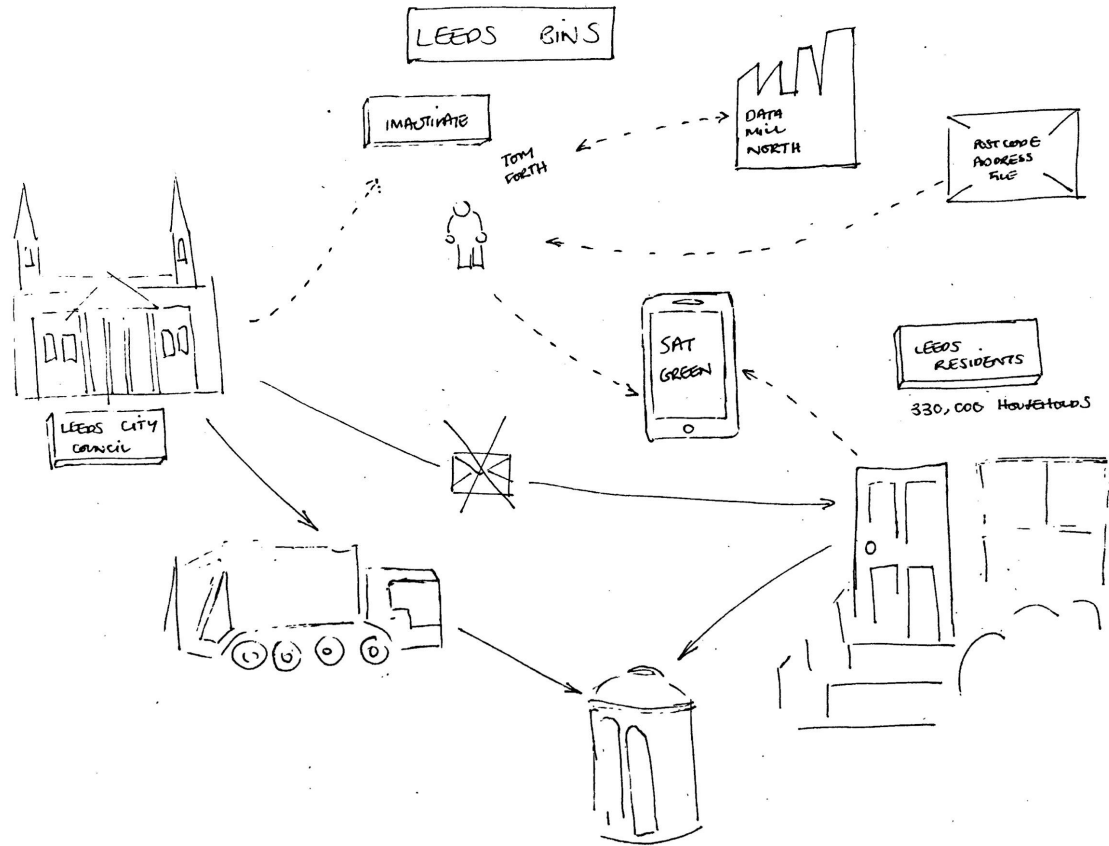
- the data assets that are being accessed, used and shared
- the people and organisations involved in either creating outputs using data, or benefiting from its use
- the relationships and roles that these actors have in the ecosystem

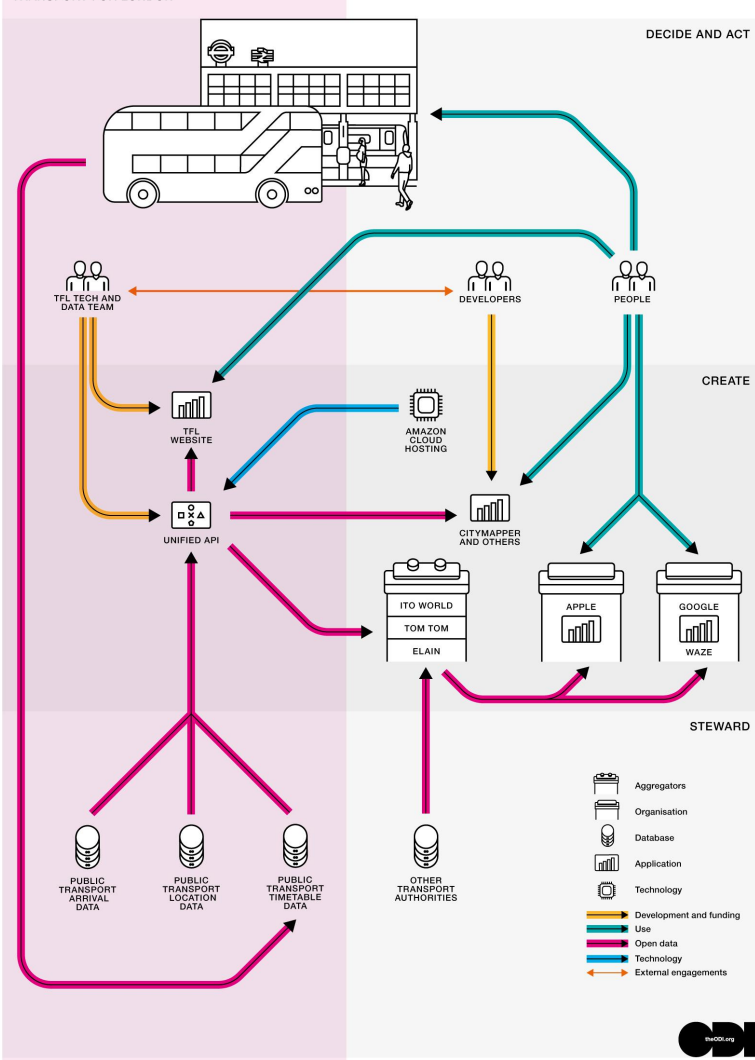


Mapping data ecosystems

In this guide, we introduce a tool for documenting and mapping data ecosystems. We have provided guidelines for how to do this by yourself, or in a workshop setting. We welcome feedback on the methodology, how it can be used, examples of its use in different contexts, and ways in which we can improve it in the future.







How can we increase access to data while retaining trust?

- understand complex systems visually
- help communicate interactions in a simple way
- think about the role different stakeholders play, the relationships between them
- identify gaps and opportunities
- help make decisions about different ecosystems to join/advocate for change within/etc

How can we increase access to data while retaining trust?

data sharing agreements, open data publication, data commons, data marketplaces, data trusts, data exchange protocols, data portability initiatives, blockchain/DLT, smart city projects, public services, data fellowships, PETs, PIMs/PDSs, data donation, ...

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How can we increase access to data while retaining trust?

You have 30 minutes to:

1. Split into groups of 5/6
2. Choose a data portability ecosystem
3. Use the pens, paper and post-its to map the ecosystem

How can we increase access to data while retaining trust?

Who is directly involved in the ecosystem?

What role does your organisation play?

What types of data flows around the ecosystem?

What data does each organisation use, who provides it, how is it accessed?

What data does each share and for what purposes?

How is data shared (eg via downloads, API?)?

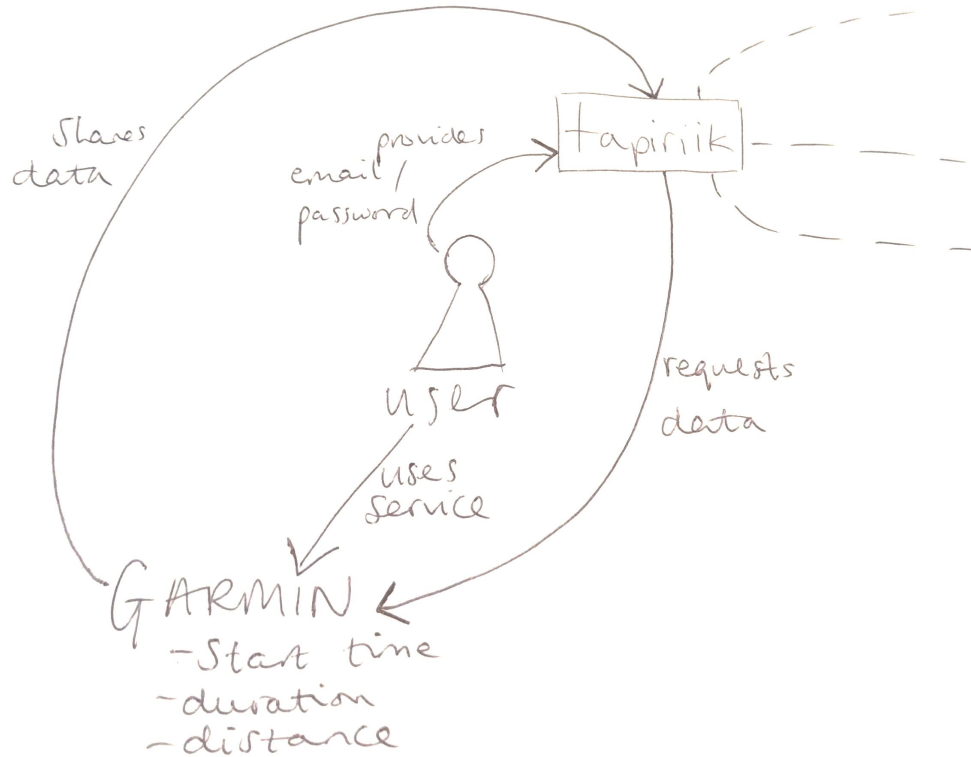
Are there any data standards in place?

Who is funding what?

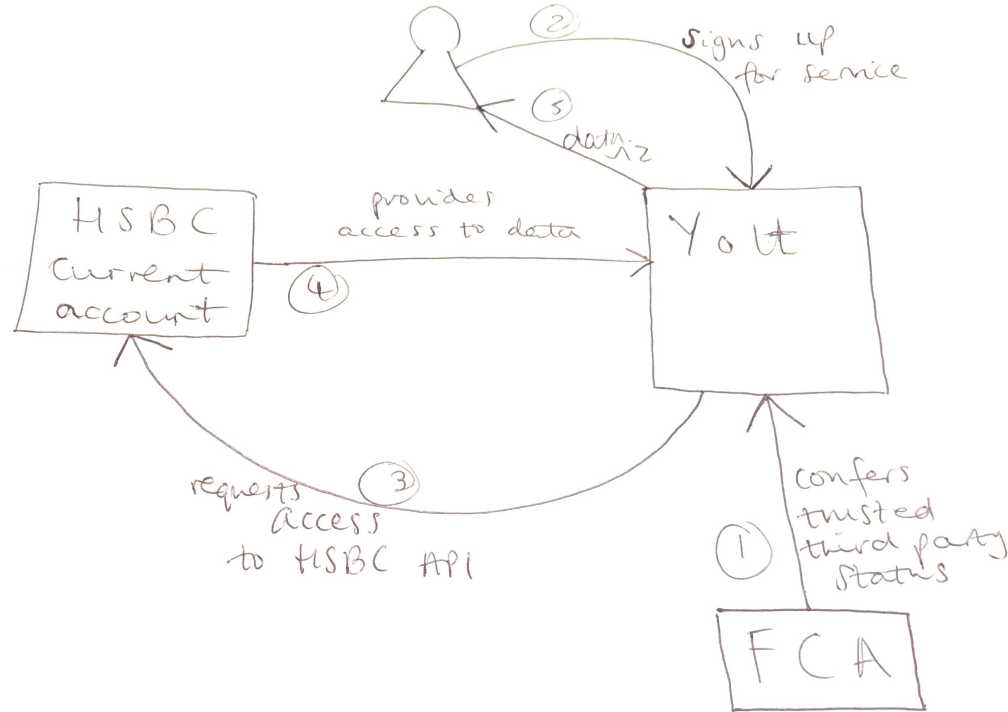
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Stakeholder types	Description of role
Steward/collectors	Responsible for collecting, managing and ensuring access to a dataset
Contributor	Helps curate data in a dataset, using tools provided by the steward
Reuser	Uses data to create an output, e.g. chart, app, article, report
Intermediary	Provides value-added services that enhance, host or enrich a dataset
Aggregator	Type of Intermediary. Packages together datasets from many sources eg to create an app or service
Beneficiary	Benefits from activity of reusers
Subject	Person or organisation represented in a dataset (ie who data is collected about)
Policymaker	Create principles and measures to generate outcomes
Capacity developer	Supports capacity and skills of actors within the data ecosystem
Publisher	Releases/shares data in form for reuse by others

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Share your ecosystem maps in 2 minutes!

- What are the main data assets that are being accessed, used and shared?
- Who's involved? What are the different relationships like?
- How did you find the process?

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Get in touch

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