



## Mapping the UK Data Landscape

### What should be included?

What is a 'data landscape' and what does it look like? Well, that's just two of many questions that we hope to explore and answer via this project. As data becomes increasingly important and foundational for so many services, businesses, etc, it's important to understand all of the subtle and obvious interactions that take place, and who is involved.

In a brand new project led by the Open Data Institute, we will be working with them and The Data City to create an interactive visualisation of the data landscape in the UK. But who/what should be included? Please add your thoughts/comments/suggestions below, this is not limited to just the government or big organisations. Whatever you think is important for a large-scale view of the data ecosystem counts.

**ODI Leeds employs a method of rapid innovation to work in a radically open way to produce results quickly and effectively. Our process is purposely initially unstructured but ultimately productive to allow for communication, knowledge exchange, change & action.**

**Pre-pandemic we would have met at ODI Leeds and used the whiteboard walls to introduce ourselves and to share & learn. Instead we use this open google document. Please join in to make a difference.**

### [Project Hubpage](#)

This page features the methodology, resources and info re the project

## Open Comments/Questions

**What type of data ecosystem as there are many types of data?**

**Why are we doing this project?**

- Create a way to navigate the data that is available and have it all in one place rather than loads of reports
- Could use-cases be used to explore all the possible 'whys' and have a shared discussion about their relative importance?

**What is a Data Organisation ?**

What is the purpose of the descriptors of Users, Enablers, Stewards ?

- understand if people have a reference for what the data landscape is and who would be part of that
- what do people do with their data? How do they fit into the landscape and what makes them a data company?

**How do we deal with businesses that cut across more than one category e.g BBC, ONS?**

**Are we collecting information about businesses involved or information about the actual data sets in addition, i.e. do we want to know what data is held or shared by each company?**

What happens if orgs/individuals change - does their inclusion/category change?

**Where do we think individuals, community groups etc. should be included ?**

**Existing Data Classification:**

**ODI HQ : Data Assurance - programme - Keyword exploration.**

**Thoughts and comments**

- Might be interesting to map the relationships between data organisations and how they interact and what data they collect/provide to each other
- Are use cases helpful to understand the interactions and relationships of data enablers, users and stewards → also to understand specific examples of when this landscape would be useful
  - How do we capture use cases in the open
  - Can we engage and explore the focussed data businesses

Users - sub-categories ?

## Whiteboard wall

Thank you for coming in with this open session - please join in by sharing with us as we would on our whiteboard walls at ODI Leeds - Who? Where? Why? - please add below

Who are you?	Where are you from (organisation)?	Why are you here?
Lisa Allen	ODIHQ	To hear feedback from the community
Susanne Schmidt	ODI Leeds	To find more examples and explore the data landscape
Emma Thwaites	ODI HQ	To see how one of these works and to hear ideas from around the country about the work we're doing.
Tom Forth	The Data City & ODI Leeds	Explain how The Data City works.
Grace Durkan	ODI Leeds	To learn and understand what a data landscape is.
Anne Edimo	ODI HQ	To find out more about the project and hear ideas.
Giles Dring	ODI Leeds	To help make the session run smoothly and to learn!
Tara Lee	ODI HQ	To hear everyone else's feedback
Yang Lu	York St John University	See how academics working on data privacy contribute to cyber security in the open data landscape.
Sven Latham	Ethos VO/ Noggin	To understand more about the current data landscape and contribute to the discussions
Alex Templeton	Suffolk Data Trust (or at least its origin point)	Learn and connect
Hannah Roden	Leeds City Council/ Data Mill North	Learn and connect
Thomas Toomse Smith	Financial Reporting Council	Interested to understand how data is being used.
Kathryn Connell	ODI Leeds	Help
Holger Kessler	Geospatial Commission - Cabinet Office	As stakeholder engagement lead I am keen to learn what your latest thinking is

<b>Justin McHenry</b>	<b>Queen's University Belfast and VU.CITY</b>	<b>To learn about the data city and UK data landscape/ecosystem from a planning perspective</b>
<b>Ed Evans</b>	<b>ODI HQ</b>	<b>Learning - I am working on potentially associated work on Data Assurance</b>
<b>Fatima Garcia</b>	<b>The Data City</b>	<b>Gather information on what is understood as the Data Ecosystem</b>
<b>Daniel Tagg</b>	<b>Wildman and Herring Ltd</b>	<b>To connect with others and learn more about the project</b>
<b>Jenny Bull</b>	<b>Forum Central/ LOOP</b>	<b>Working on shared database LOOP how lots of information can be accessed easily/simple - especially to strengthen the case for the value of the third sector - to safeguard investment in it.</b>
<b>Gary Rush</b>	<b>DTSquared and ODSL helper</b>	<b>Missed hearing Paul, continuing to learn and understand data space across sectors</b>
<b>Zoi Roupakia</b>	<b>UCI Policy Evidence Unit, University of Cambridge</b>	<b>To explore the UK data landscape</b>
<b>Chris Barnes</b>	<b>Highways England</b>	<b>Learn more about how value of data to the economy has been qualified and how we, as an organisation, fit in.</b>
<b>Hannah Foulds</b>	<b>ODI HQ</b>	<b>To listen in on what others will find most helpful from the tool / who the audiences are</b>
<b>Paul Connell</b>	<b>ODI Leeds</b>	<b>Work out loud to work out a bit more about The Data Ecosystem</b>
<b>Chloe Powell</b>	<b>Kent Fire and Rescue Service</b>	<b>To keep up to date with the UK data landscape</b>
<b>Tina Woods</b>	<b>Collider Health / Longevity International</b>	<b>Better understand what data exists outside the 'health and care system' which could be accessed and shared to improve health - and what is the enabling infrastructure and governance structure to unleash innovation to solve big problems in health</b>

		inequality
Claire Birnie	Ordnance Survey	To keep up to date with the current thinking on data
Edwin Ssekabira	Data Science Student at Sunderland Uni	To find out more about the UK data landscape.

# Breakout Sessions

## Questions

## Resources/Sources

Do you have any examples/source/resources that you think are relevant to be considered/included in building the UK Data Landscape?

Gavin Freeguard

- [https://docs.google.com/document/d/1URoTu0S8MtyPEQIxue5ArMpi2IJOn67DdmiXwz\\_\\_Q\\_Qo/edit?usp=sharing](https://docs.google.com/document/d/1URoTu0S8MtyPEQIxue5ArMpi2IJOn67DdmiXwz__Q_Qo/edit?usp=sharing) UK Government data ecosystem
- <https://jamboard.google.com/d/1bZdsQRsILxLTWoNKCSPk9RpRbIEZIsuvU5yaRodPYQE/edit?usp=sharing> - UK Government data ecosystem updated for 2020
- <https://docs.google.com/spreadsheets/d/1xyqbf16wzZSJm1LMCyLiXNBW0h5OIE3fW0W2VCzbfkjw/edit?usp=sharing> - newsletters, podcasts, etc all about 'open' (open data, open gov)

Sven Latham: (I wrote this about 2 yrs ago for town centre data):

<https://www.noggin.ltd.uk/suppliers/>

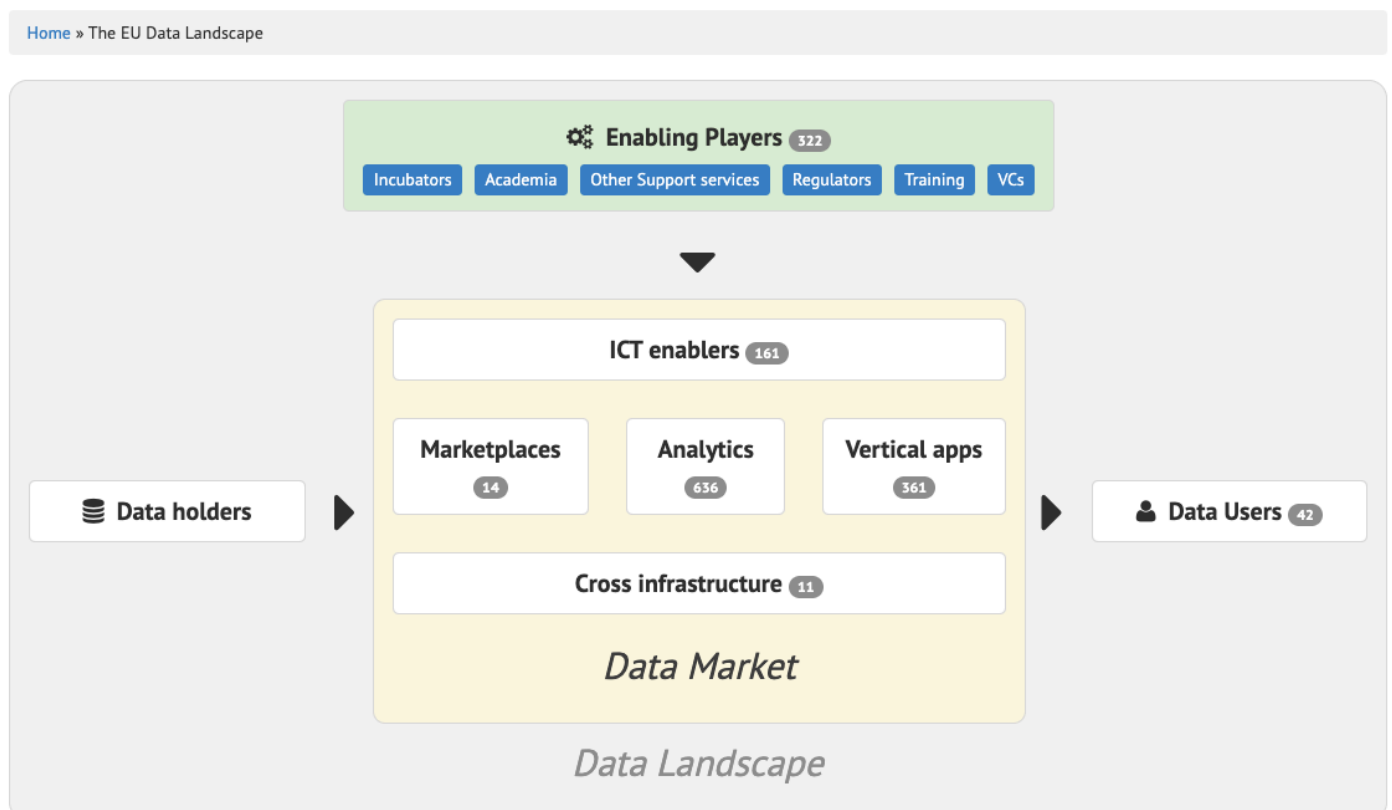
Claire Birnie

- Ordnance Survey

Zoi Roupakia

<https://datalandscape.eu/eu-data-landscape>

- 1) Framework used in EU data landscape



- 2) Companies filtered by type (Large vs SMEs)

3) Data companies types: <https://datalandscape.eu/companies>

4) The Supply - Demand Dimension: The Data Companies

“Data companies are organisations that are directly involved in the production, delivery and/or usage of data in the form of digital products, services and technologies. They can be both data suppliers’ and data users’ organisations:

- **Data suppliers** have as their main activity the production and delivery of digital data- related products, services, and technologies. They represent the supply side of the Data Market.

- **Data users** are organisations that generate, exploit, collect and analyse digital data intensively and use what they learn to improve their business. They represent the demand side of the Data Market.”

(Source: The European Data Market Monitoring Tool - Final Study Report.)

## Exemplars

**Do you have any exemplars that you think should be included?**

Highways England (where Chris is from) is not currently on our spreadsheet. Thinks that he’s a steward and not an enabler. The five year strategy for Highways England may well change their position in the taxonomy.

Financial reporting council - (where Thomas is from) sets the UK accounting standards. They hold no data. The UK accounting standards are available as physical books, and are in PDFs, these are free. International accounting standards are set by the international standards accountings board where they can be set. Because there’s not yet Companies House is where registered companies go. The National Storage Mechanism is where even more stuff and has recently been brought back into the [FCA](#).

There are lots of specialist registers in the UK level.

[Restoring trust in audit and corporate governance - GOV.UK \(www.gov.uk\)](#)

Look at recently closed consultation on all of the EU’s business registries etc...

(JB) YES for richness, but it is very ticky, there’s no capacity/resource for utilising data, keeping it ‘up to date’

I made this list of “portals” at the Geospatial Commission (Holger):

<https://magic.defra.gov.uk/>

<https://www.ordnancesurvey.co.uk/>

<https://maps.london.gov.uk/ima/>

<https://mappinggm.org.uk/gmodin/>

<https://www.southampton.gov.uk/planning/planning-policy/brownfield-land-register/brownfie>

[ld-land-register-map.aspx](#)

<https://flood-warning-information.service.gov.uk/long-term-flood-risk/map>

[https://eservices.landregistry.gov.uk/eservices/FindAProperty/view/Info.do?page=about\\_one&id=p\\_about\\_link](https://eservices.landregistry.gov.uk/eservices/FindAProperty/view/Info.do?page=about_one&id=p_about_link)

<https://maps.nls.uk/geo/explore/>

<https://geoportal.statistics.gov.uk/>

<https://environment.data.gov.uk/>

<https://datamapwales.test.gov.wales/maps/new>

<https://spatialdata.gov.scot/geonetwork/srv/eng/catalog.search#/search?facet.q=topicCat%2FplanningCadastre>

<https://www.opendatani.gov.uk/>

<http://mapapps2.bgs.ac.uk/geoindex/home.html>

<http://mapapps2.bgs.ac.uk/coalauthority/home.html>

<https://naturalengland-defra.opendata.arcgis.com/>

<https://newcastle.urbanobservatory.ac.uk/>

The Geospatial Commission did this piece of work which might be useful

<https://www.gov.uk/government/publications/bringing-together-housing-land-and-planning-geospatial-datasets>

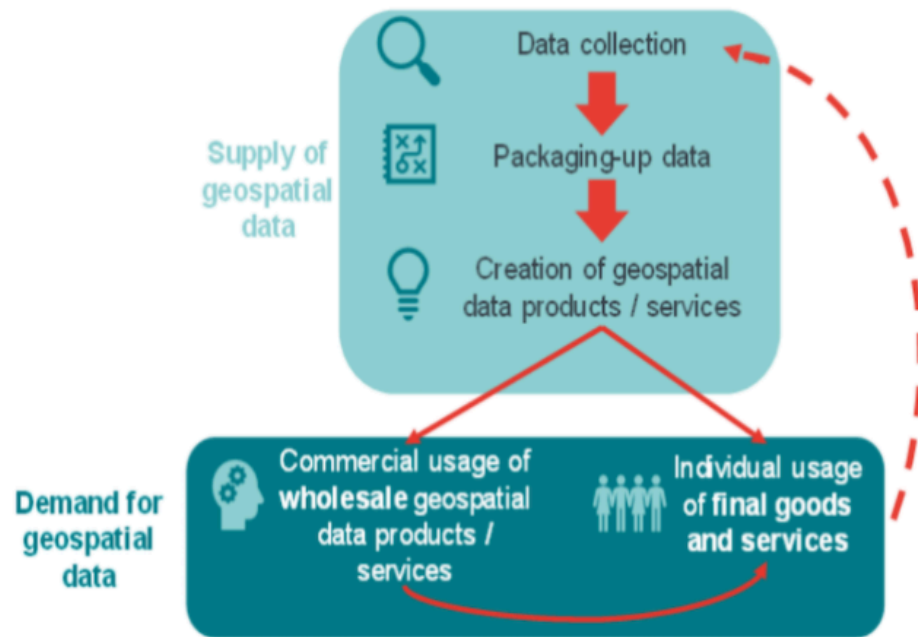
[Home - Office for National Statistics \(ons.gov.uk\)](#)

Where do organisations fit where they cover all three of the definitions? For example ONS is a data steward, data enabler and a data user. Do we need to tag rather than separate? As with data trusts and other work the lines are blurred and organisations are spanning all three definitions.

How can we show the flows of role where orgs come under the 3 definitions. Can we show this?



**Figure 2     Ecosystem illustration**



*Source: Frontier based on a review of existing evidence and sectoral engagement*

<https://www.gov.uk/government/publications/enhancing-the-uks-geospatial-ecosystem/frontier-economics-geospatial-data-market-study-report-executive-summary>

## Data Stewards

### What do you think of the term data stewards?

I also hear the word “custodian” a lot

Local authorities ?

Broker?

Also “data governance”

Do people who define data standards fit into this group? A data standards creator says “I’m not sure if I’d be in this group, we set standards and help other people to collect the data, we don’t monitor the quality of the data, that’s for other people”.

The word stewardship is a bit contested in some fields and we have for example [Stewardship Code - Wikipedia](#).

Data stewards decide who has access to data, under what conditions and who can benefit from it. Organisations that collect and hold data usually have this role.

### Do you think there is an alternative definition - if so what?

Data Producers

Data Administrators / Data Catalog Administrators

### Do you have any exemplars of a data steward?

What are the responsibilities/obligations for a data steward? Does this stewardship change depending on the way the data is used.

Particular example: When gathering property/occupancy data in town centres, we’re facing Local Authorities being the presumed steward (based on their collection of business rates data) but this is often out of data, might be inaccurate, and might suit a very specific outcome (in their case, rates payment). The consumer might have different requirements, particularly for up-to-date occupancy data. E.g. Business Improvement Districts demand more frequent updates than is provided by the LA so themselves become stewards by necessity.

Potential example of data stewardship (perhaps also data enabler?) in health - where sensitive data used in research is kept within the research environment and the code used to analyse/use it is brought in, rather than data shared out.

**Gov.uk**

**Data Mill North**

**London Data store**

**Calderdale Dataworks**

## Data Users

### What do you think of the term data users?

More confusion around this term, with reference to national data strategies and other policies, where citizens are named as their own data users, enablers, stewards, owners, etc.

All of the roles could succeed/fail based on the TRUST in the system.

- Any digital application can be a data user but are there any more constraints? - subgroups would be useful to paint a more useful picture
- That's why the Data City is used to gather more detailed information

A way of identifying data users - start with the big thorny - wicked - challenges.

### Do you think there is an alternative definition - if so what?

Do we need to split the terms into data users and reusers - ie user primary purpose of the use of the data and res-users secondary purposes

Like the idea of primary, secondary and tertiary purposes/functions, for example they might primarily gather data for one reason, but a non-essential reason is also x

### Do you have any exemplars of a data user?

(Example from Jenny) Does the map capture data relationships i.e. Third Sector Infrastructure Orgs gathers data, provides that to the Council for them to interpret/use. But the Council may also gather data themselves, therefore they could be categorised in 2 ways, 'data gatherer' and 'data interpreter'?

Directories - providing information to the public - what type of data is that, 'surfaceable' data as well as data about how the directory is used.

<https://www.floodalleviation.uk/map/>

## Data Enablers

### What do you think of the term data enablers?

Applicable to the other questions about terms and definitions as well - where do these terms fit in the same place as GDPR for example, which uses terms like data processor, etc.

Some good examples would help demonstrate the definition.

Perhaps also the use of a 'data value' chain would be beneficial.

Enablers could be publishers of standards or 'trust infrastructure' providers.

### Do you think there is an alternative definition - if so what?

### Do you have any exemplars of a data enablers?

ESRI

OS

NISRA

BBC (could fit into several categories)

Lutra Consulting

[Noggin](#) (disclaimer: am owner)

SOLID - data pod

NHS

ODI/ Leeds

Data Mill North

Open Data Manchester

London Data Store

Gov.uk

### Common Emerging Comments from Group

### What about overlap - are there any orgs that satisfy all 3 roles?

### Should we tag organisations with multiple roles somehow?

### Can we allow orgs to be in more than one category?

### Difficult to put a specific label on some orgs.

SME's smaller no registered groups

Do we need another category - infrastructure, other

Where do organisations fit where they cover all three of the definitions? For example ONS is a data steward, data enabler and a data user. Do we need to tag rather than separate? As with data trusts and other work the lines are blurred and organisations are spanning all three definitions.

How can we show the flows of role where orgs come under the 3 definitions. Can we show this?

Extra note:

The ICO list of fee-payers is at. [Register of fee payers | ICO](#)

We need to look again at the Gender Pay Gap data (does this contains URLs?)

[Check when large businesses pay their suppliers - GOV.UK \(www.gov.uk\)](#)

Would it map who was storing/gathering data in accordance with Open Referral UK

<https://openreferraluk.org/> to facilitate better sharing? This report is key one for me in terms of developing Loop in case you haven't seen - I get it's not super relevant to your project but has good community use case insight:

<https://opencommunity.org.uk/wp-content/uploads/2019/05/Report-OpenCommunity-Data-standards.pdf>

## Exclusions/Gaps

### Who might be excluded from this exploration ?

Currently ESG (Environmental, Social, Governance) reporting is far less well defined and less standardised than core financials (revenue, profit/loss, things that help investors make profitable investments). The UK is pushing TCFD disclosure as a global standard for reporting emissions etc... data.

Entities/orgs can be more than one (or all three) types e.g. ONS are stewards, users and enablers of data. Perhaps these categories are more “tags” that can be associated with entities/orgs?

Does this favour organisations over individuals? Either how does the landscape respond to or reflect individualised needs (small groups of people) or needs that are time sensitive (e.g. crisis points in a community - fire / flood / etc)

Data users/creators who don't consider themselves as part of this conversation or consider themselves 'data people' - community groups or SMEs

### How might we fix this?

Ref Individual focus - think about enabler that are rapid responders - is the infrastructure there.

### Why do we think some organisations working with data are not visible on the web?

Particularly data users - the fact that they are using data is just a fact of life - it's not something to shout about.

### Beyond?

Will we be able to create a graph database of how the entities are linked together e.g. see data links to the ONS and links from ONS? To find the busy points/nodes in the landscape.

[+1 this would also be great for demonstrating value of sharing data to new orgs]