

Proof of concept

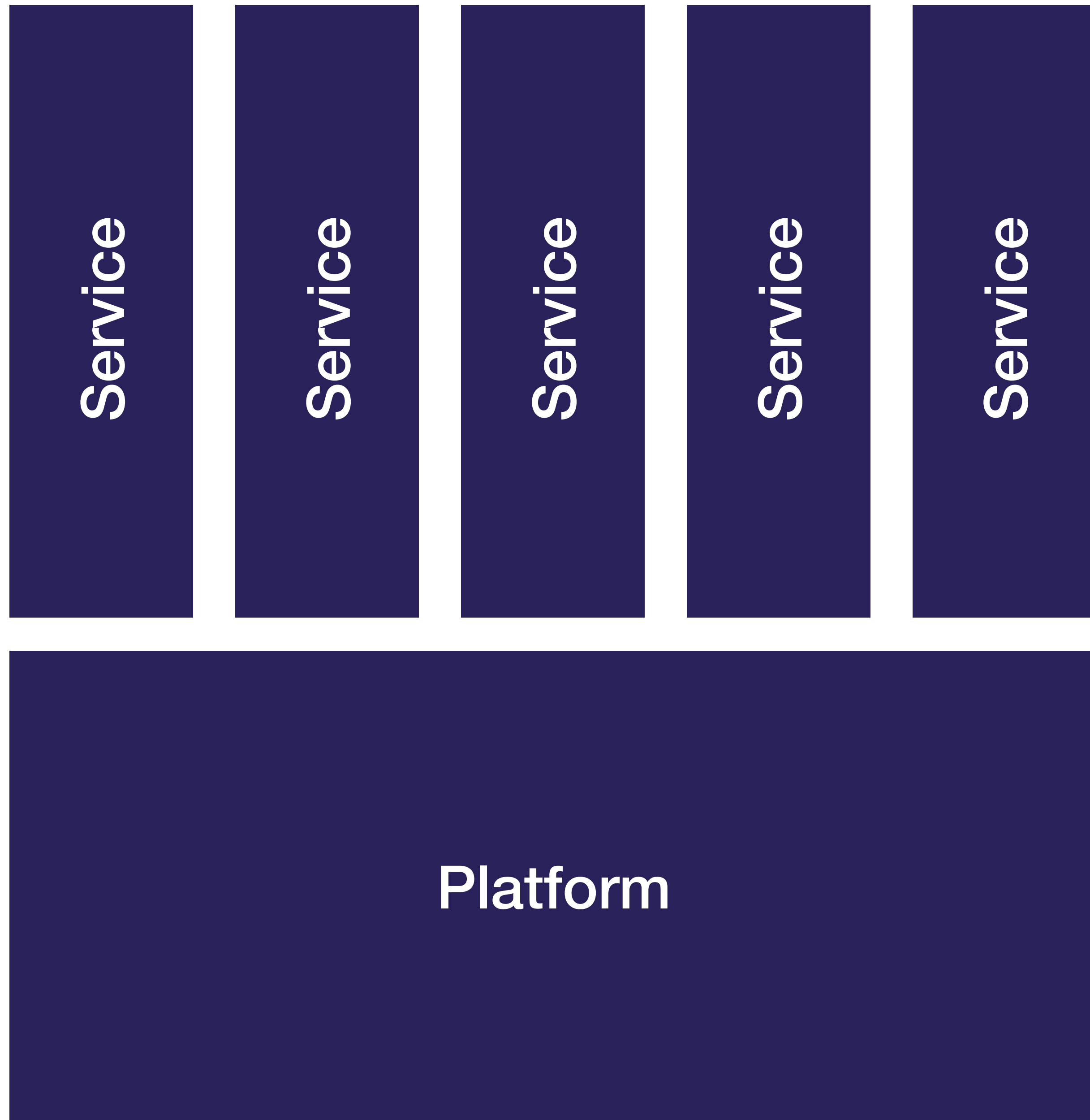
Land and property data

Show and tell 4

14 February 2022

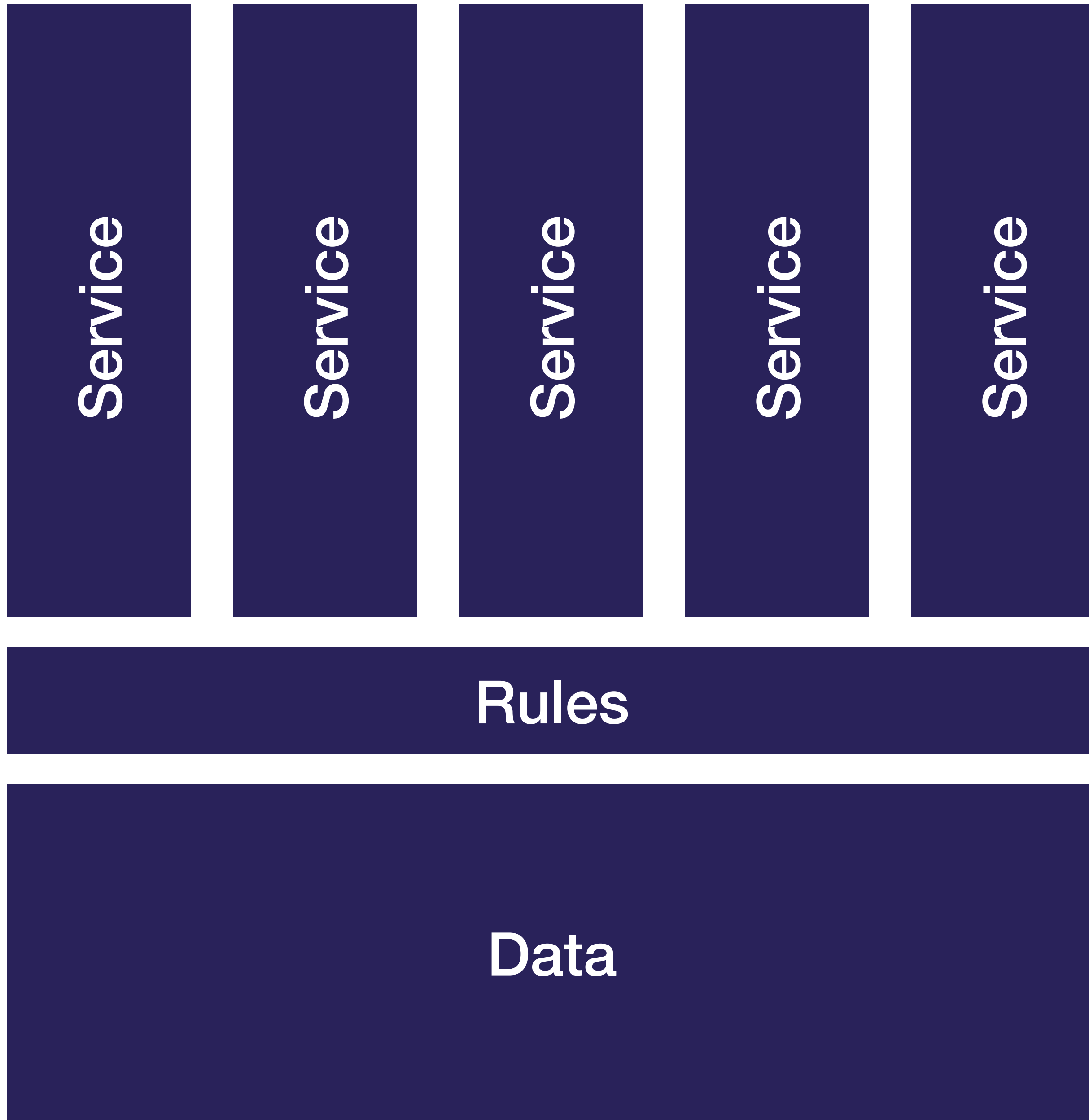
1. What we mean by a 'data platform'
2. Where we are starting (LTT)
3. What we've done so far and why
4. What you'll get at the end of March

- 1. What we mean by a 'data platform'**
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Platforms create value by making it faster and simpler to design better services *

* and implement policy intent



Service

Service

Service

Service

Service

Rules

Data

Public-facing services allow residents or their representatives to achieve a desired outcome

Open APIs expose the business logic of government

Canonical datasets are used and trusted across government and beyond

Service

Service

Service

Service

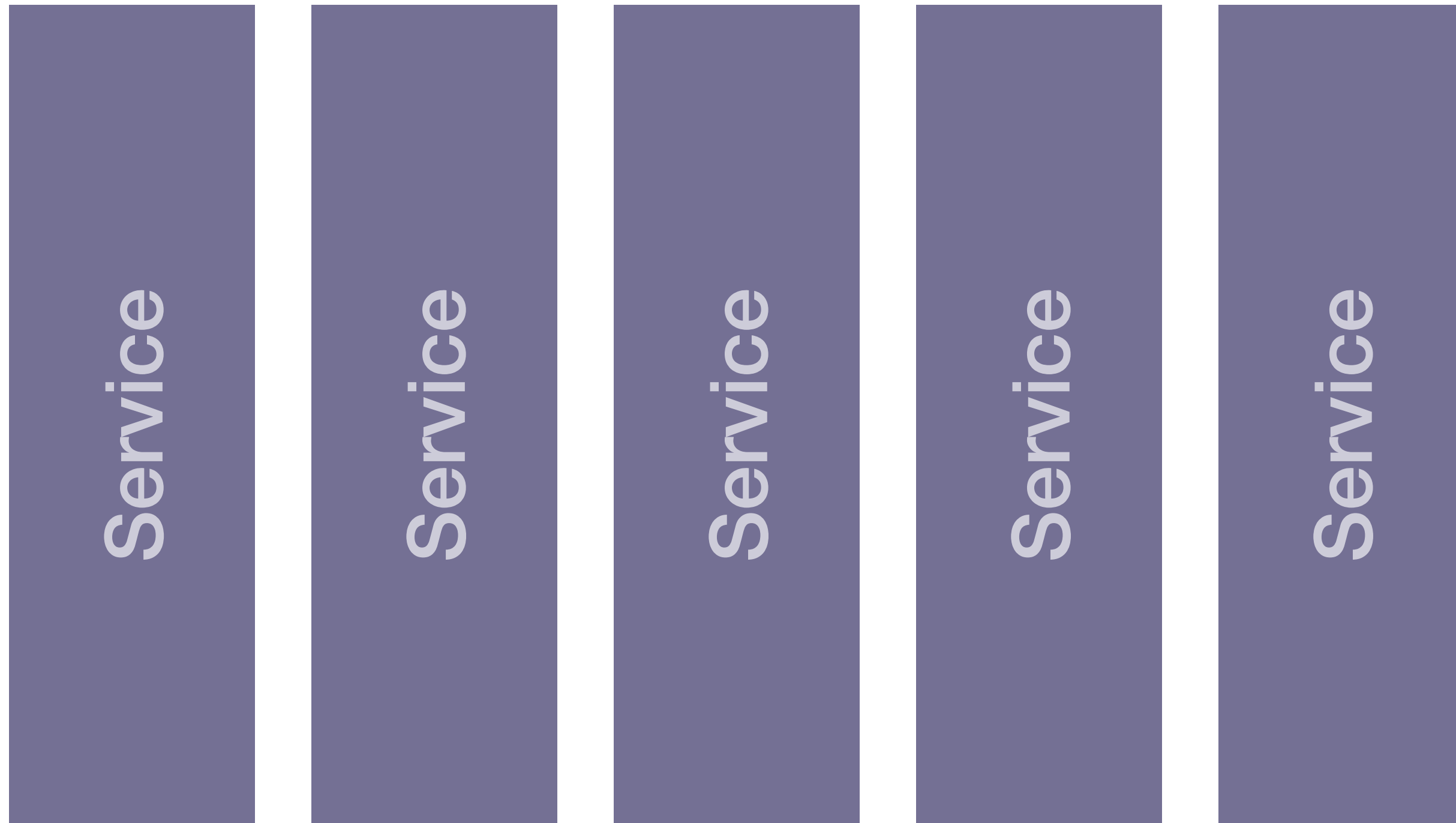
Service

Rules

Data

- e.g. Calculate and pay localised Land Transaction Tax
- e.g. Register a property for Local Visitor Levy
- e.g. View and update my property tax records

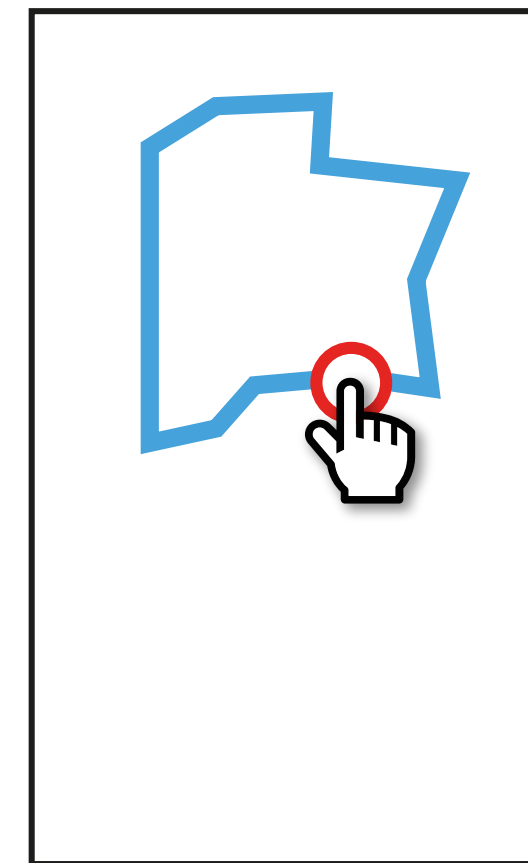




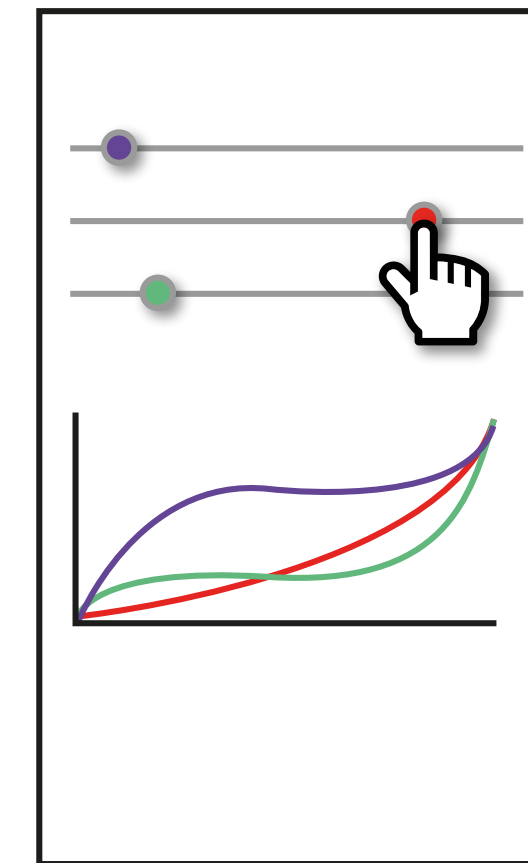
Rules

Data

Tax zones



Rates

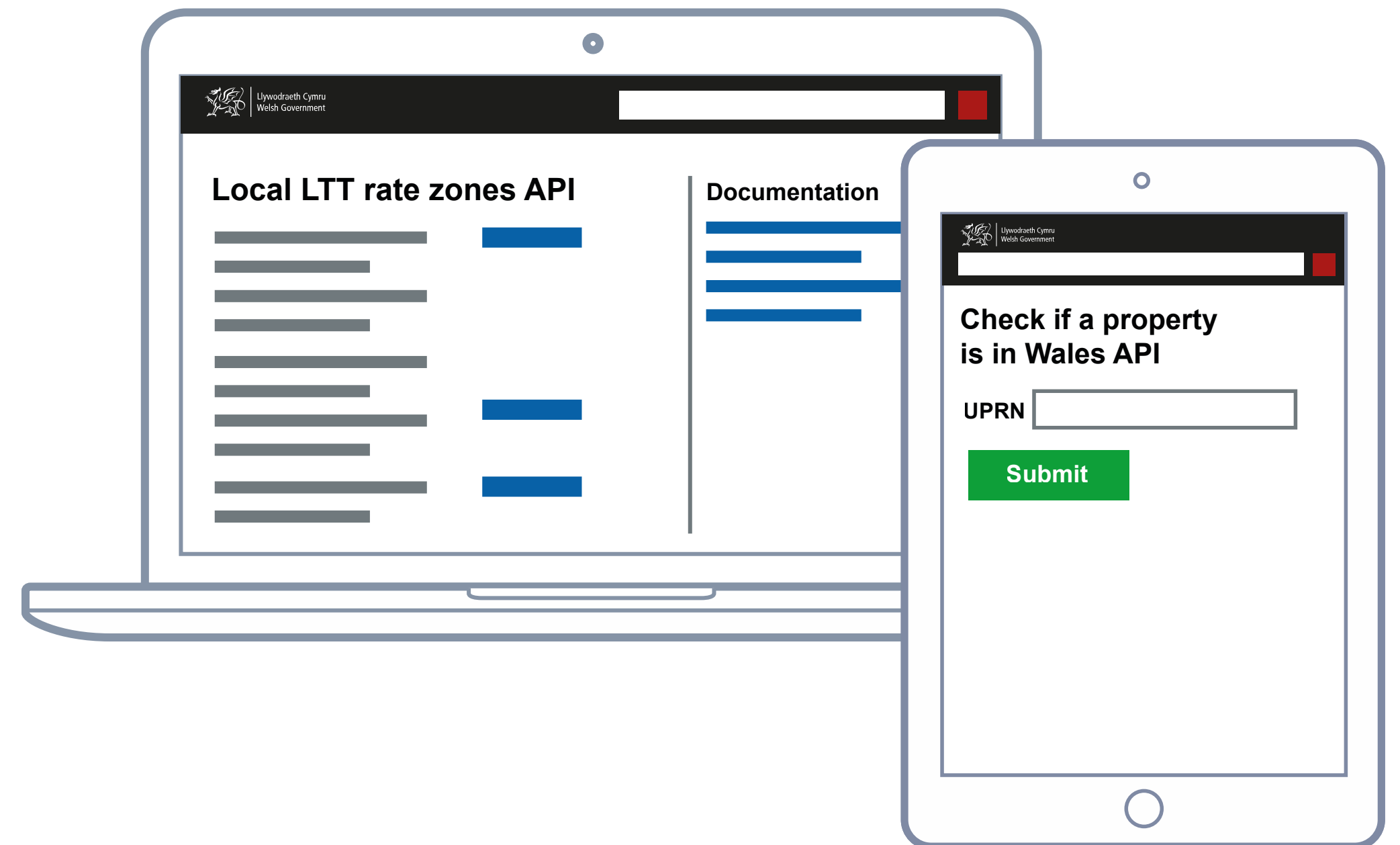


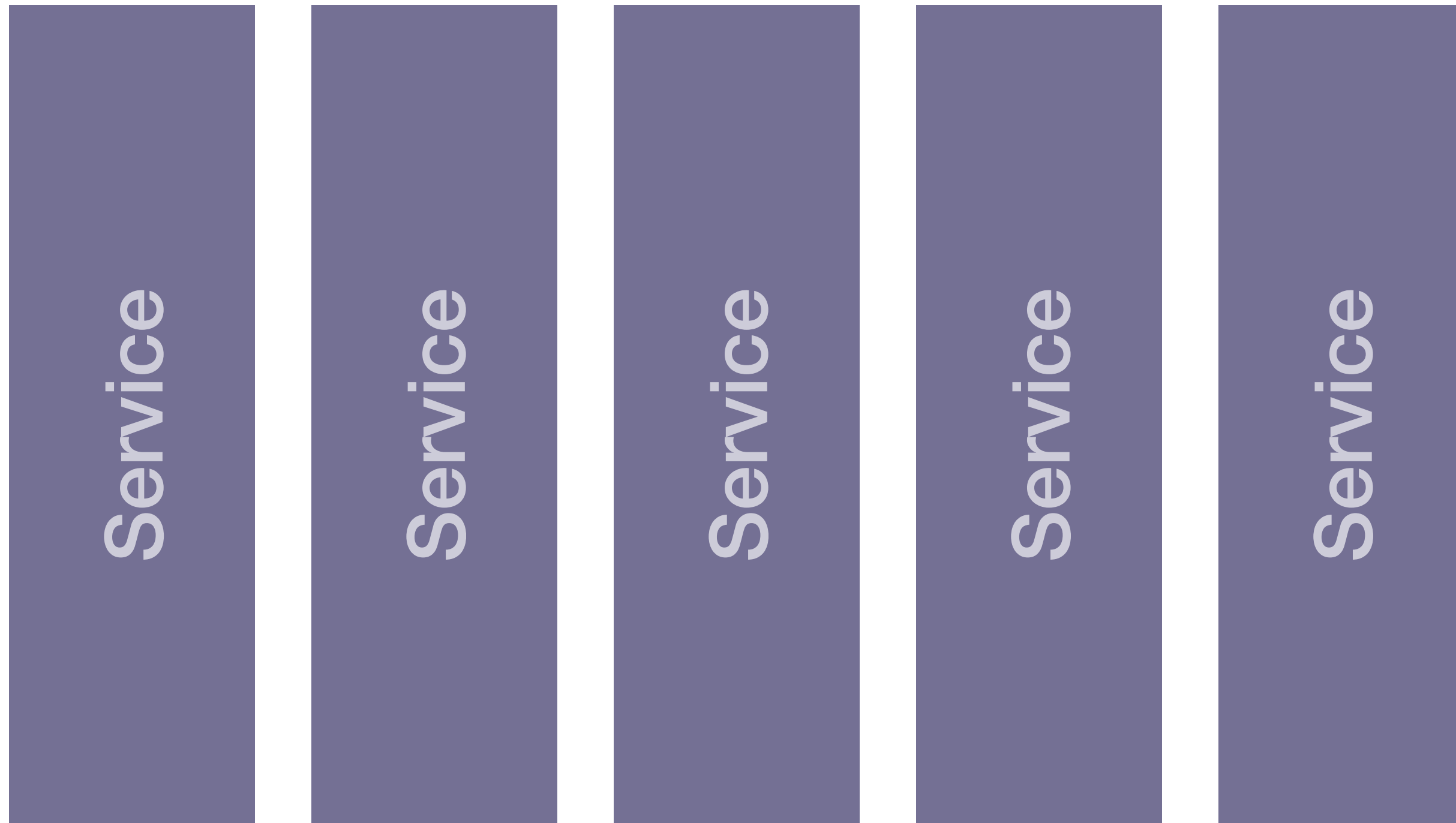
Exemptions

```
if point within (bounds)
  and tag == 'solar panels':
    rate = 0.1
else:
  rate = 0.15

if point within (bounds)
  and tag == 'conservation area':
    rate = rate * 0.3

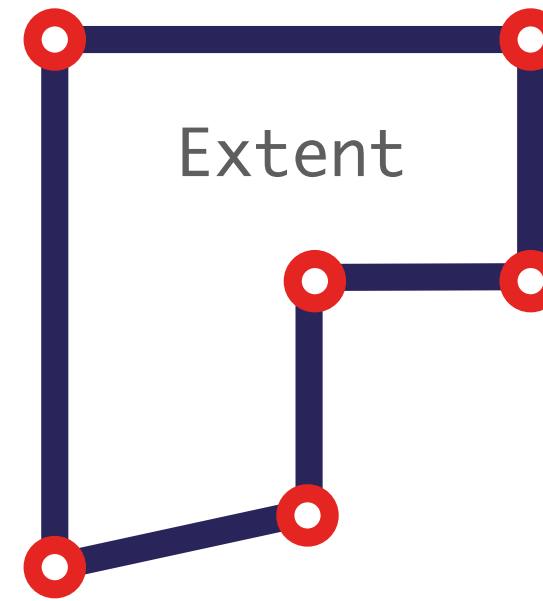
if point within (bounds)
  and tag == 'economic zone':
    curve = a
else:
  curve = b
```



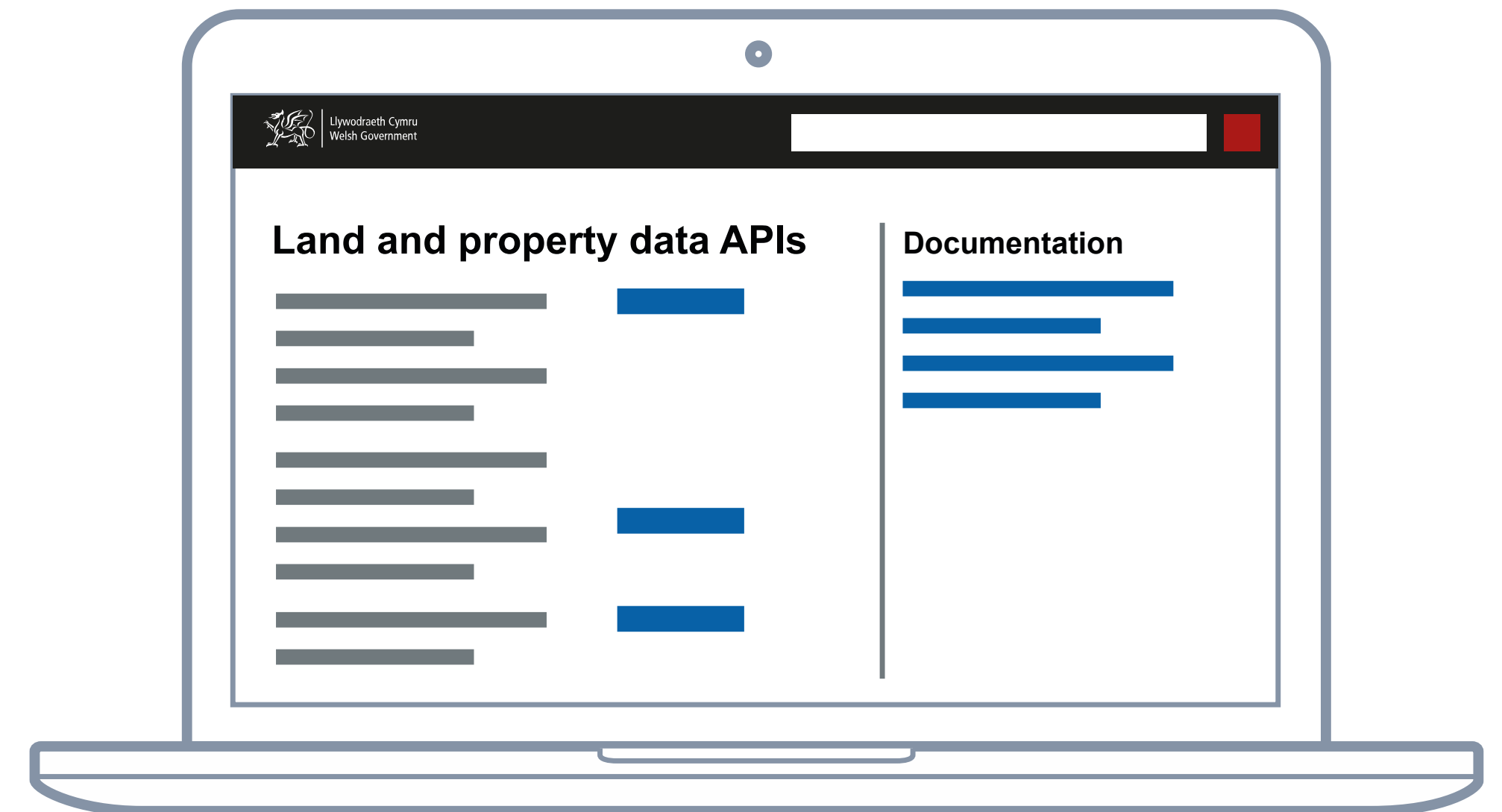


Rules

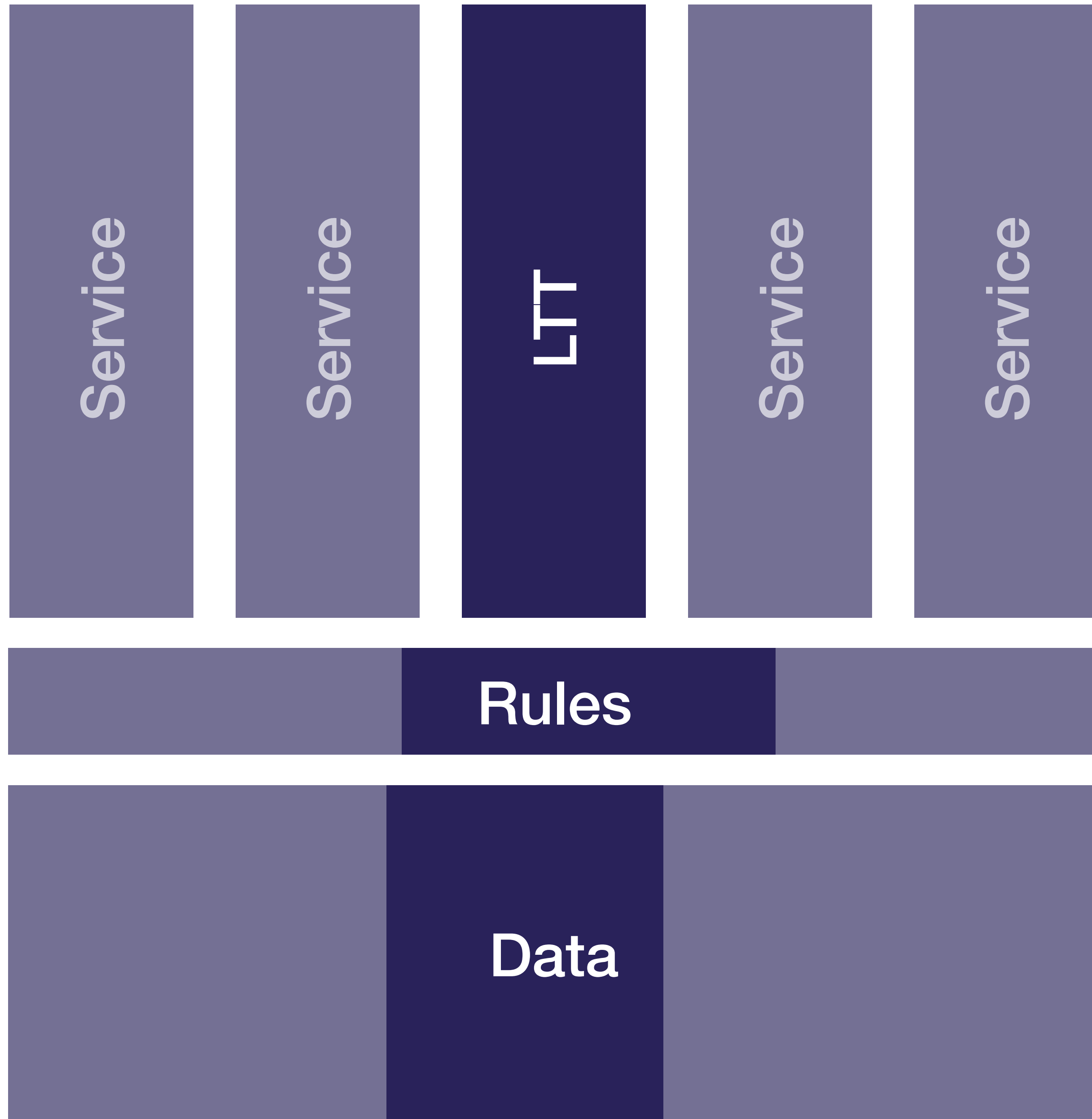
Data



Address: 14 Rainbow Road, Cardiff
UPRNs: 49020433
TOIDs: 70000000000013965
INSPIRE IDs: 15530929
Second Home: False
Last sale value: 260000
Use-type: residential
..
..
..
..



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- 2. Where we are starting (LTT)**
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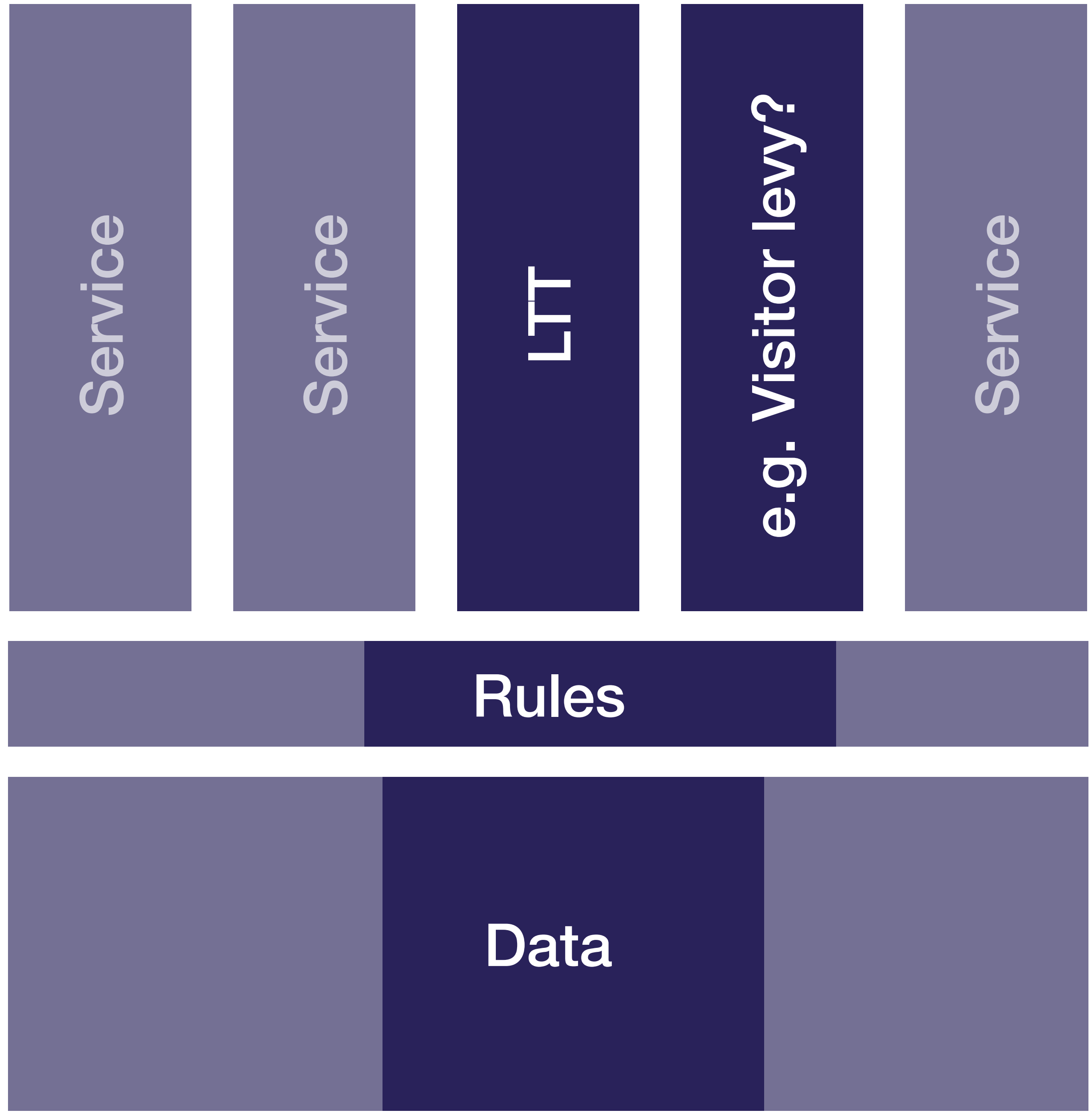
**We're starting
by understanding
the data and
rules needed for
localised LTT**

Learning by making

**Each week we are testing our
assumptions using prototypes and
worked examples**

e.g. How might we represent property location and taxation zones?

e.g. What extra data attributes might we need to calculate the tax?

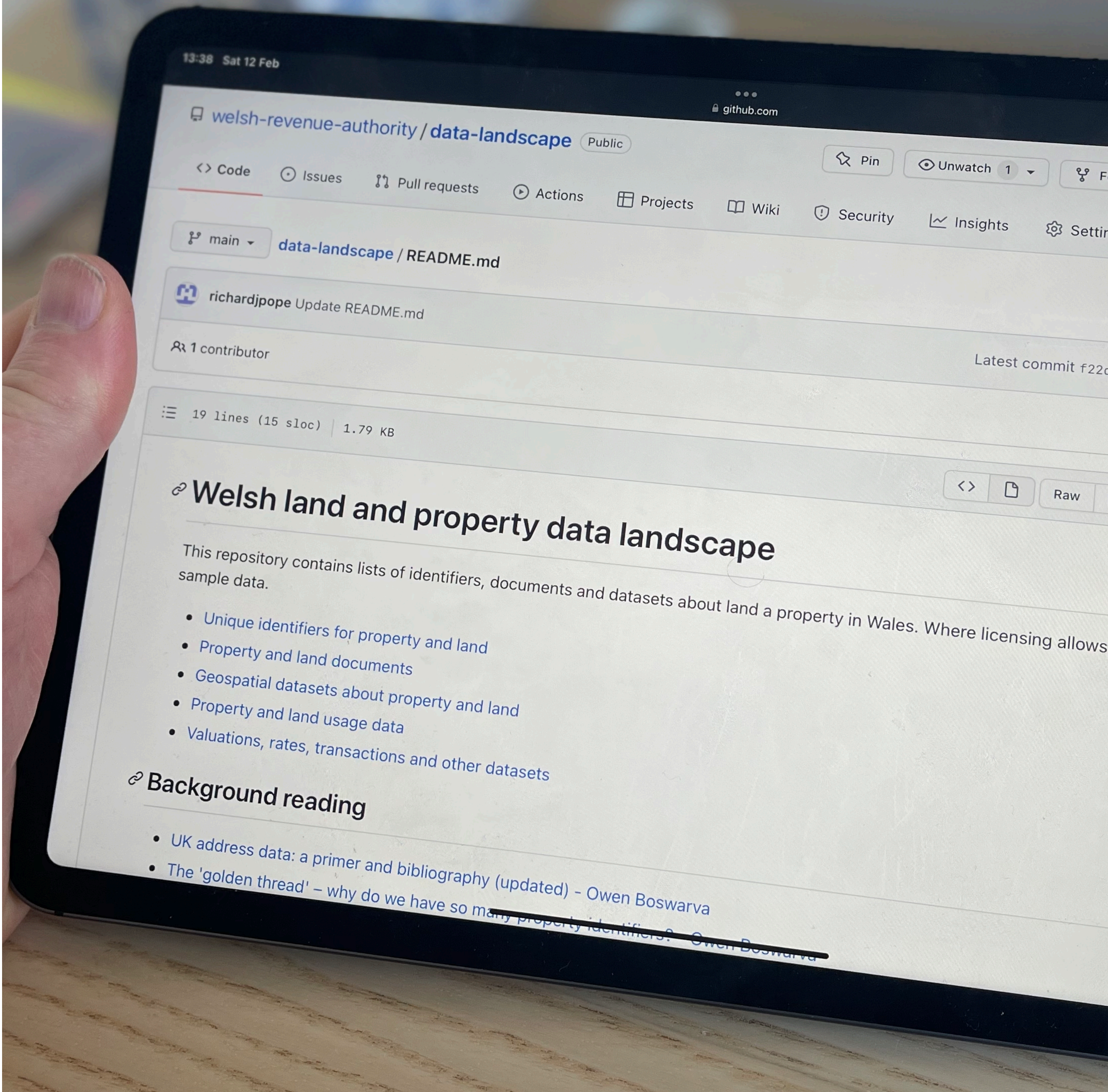


Later in the project we will look at another service

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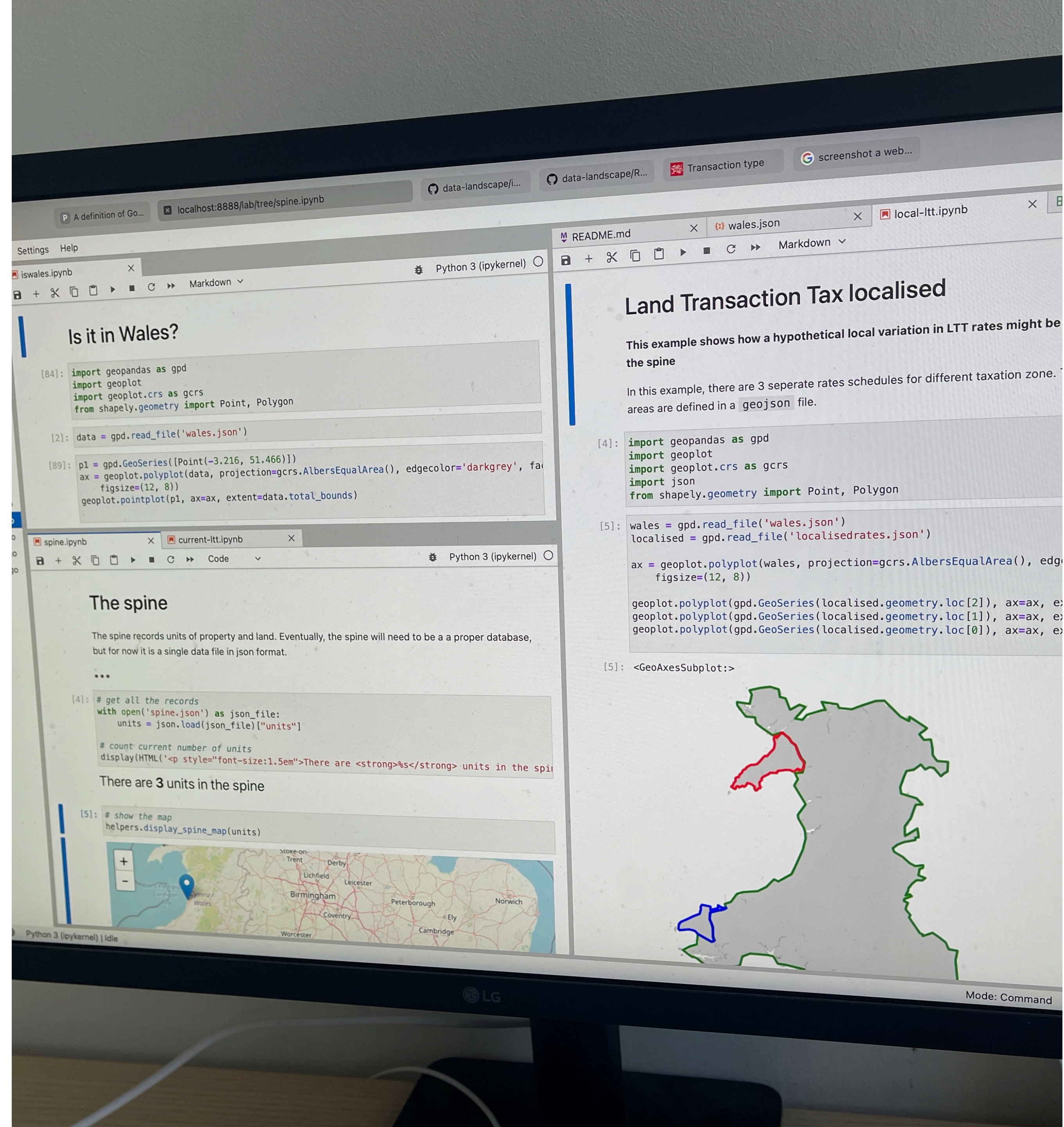
Understanding
the data landscape

**We started a
catalogue of land
and property
datasets we might
need for LTT**



Learning by making

**Completed
worked examples
for LTT to start
learn what data
and rules we need
to model**



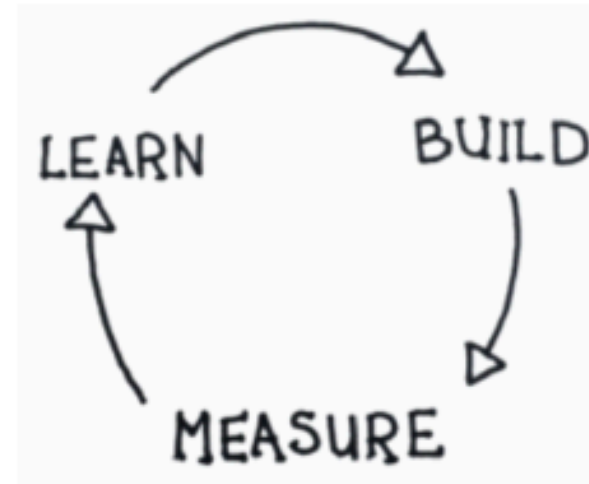
Working in the open

Published a project website and week notes (because we don't know what and who we don't know)

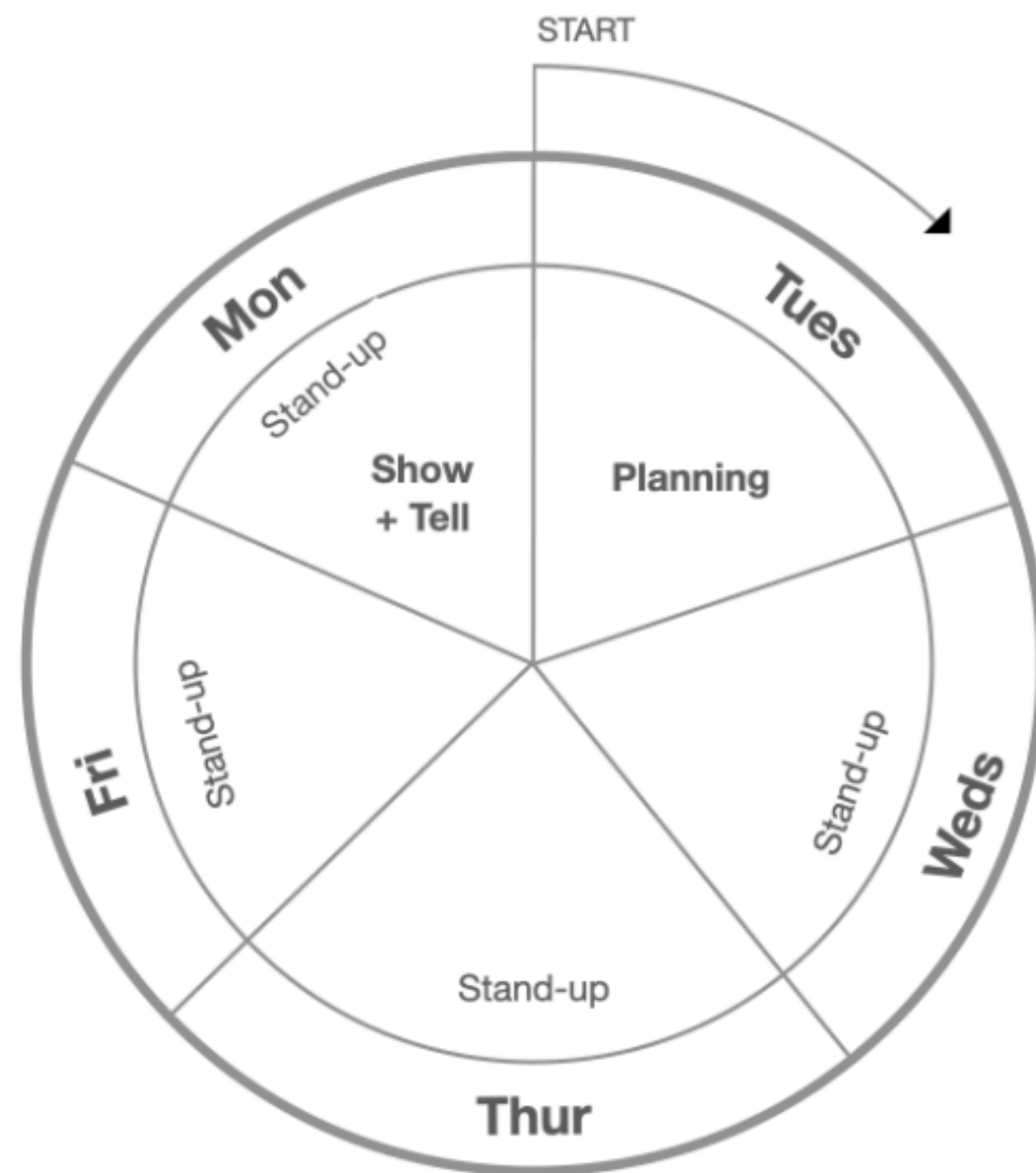


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x 12 weeks

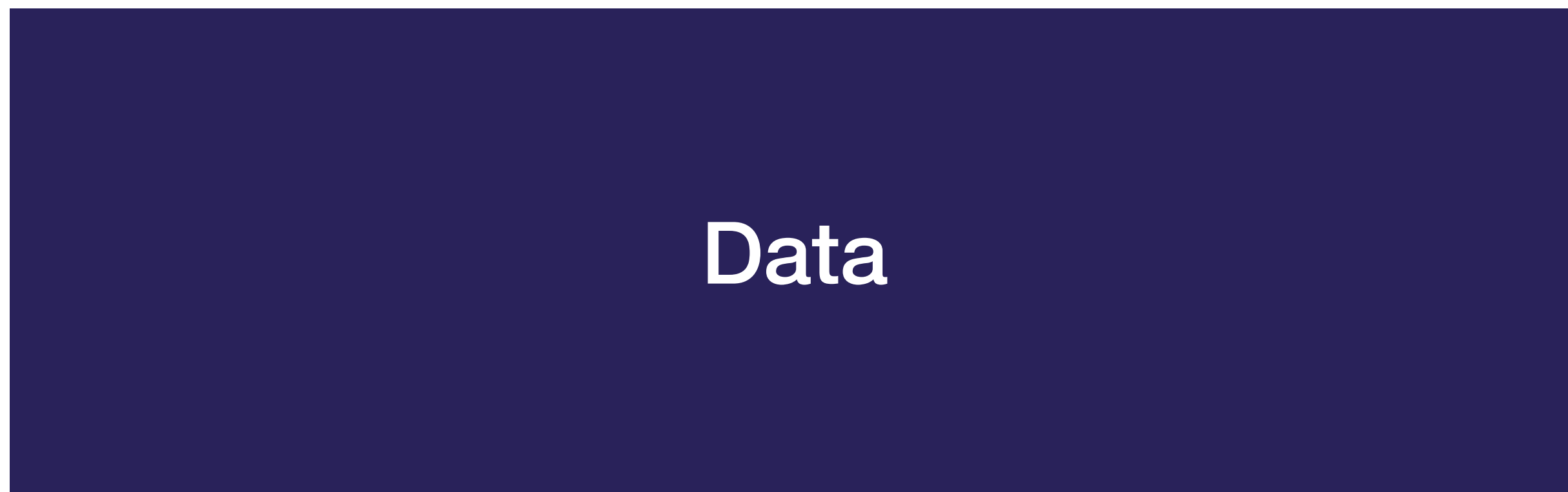
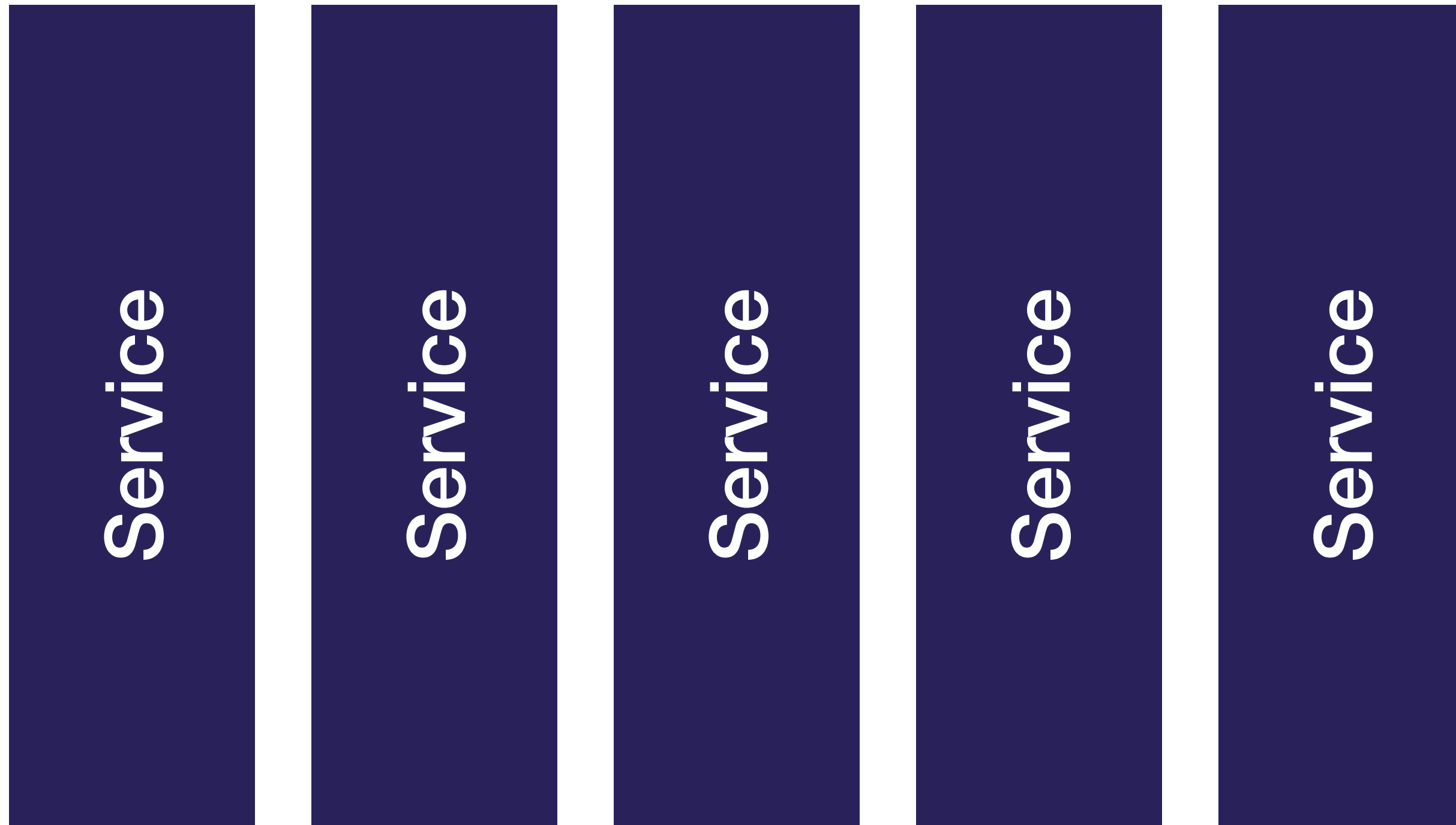


Weekly rhythm



**Because we are testing
our assumptions
through making, we
can't fully answer that**

However ...



We should have speculative prototypes of 2-3 services that show the ambition and give ministers options



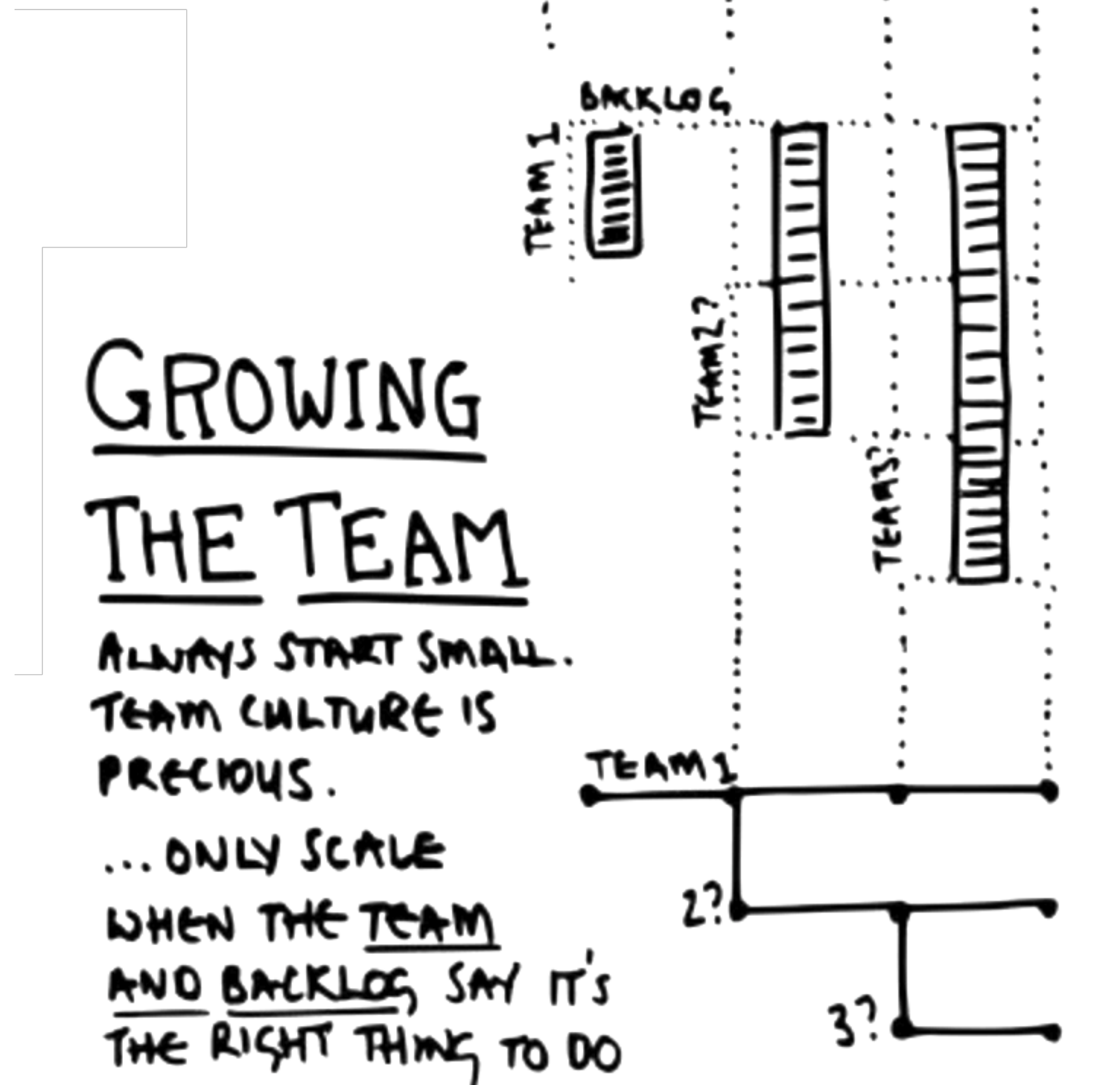
We hope to know how to model rates and areas for localised LTT and one other policy area



We should know how to represent land and properties data localised LTT and one other policy area

An we'll know the shape of the team(s) we need to move forward and the products to focus on

	3m	6m	12m..
1 TRYING TO PROVE?	?	?	?
2 WHICH USERS?	?	?	?
3 WHAT OPERATING?	?	?	?
4 WHAT SAYING?	?	?	?
5 ASSUMPTIONS?	?	?	?
6 DEPENDENCIES?	?	?	?
7 WHAT CAPABILITIES? (... NOT JUST THE SOFTWARE)	□□□	□□	□□
	□□□	□□	□
	□□□	□	



Questions and discussion