

It's all about the data.

The Data Issue

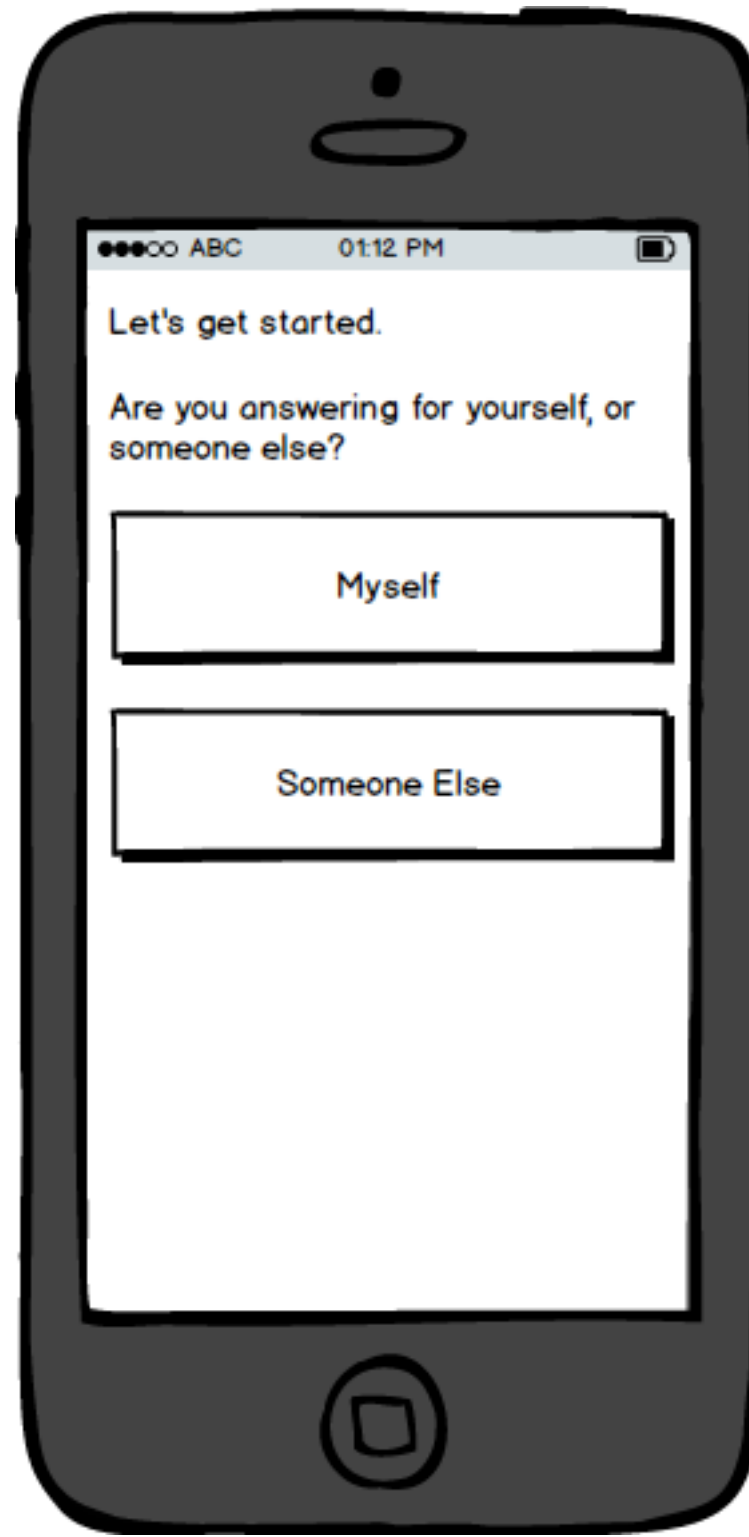
- Available open data is very vague.
- No more accurate or useful than basic demographics.
- High precision data locked up in services.

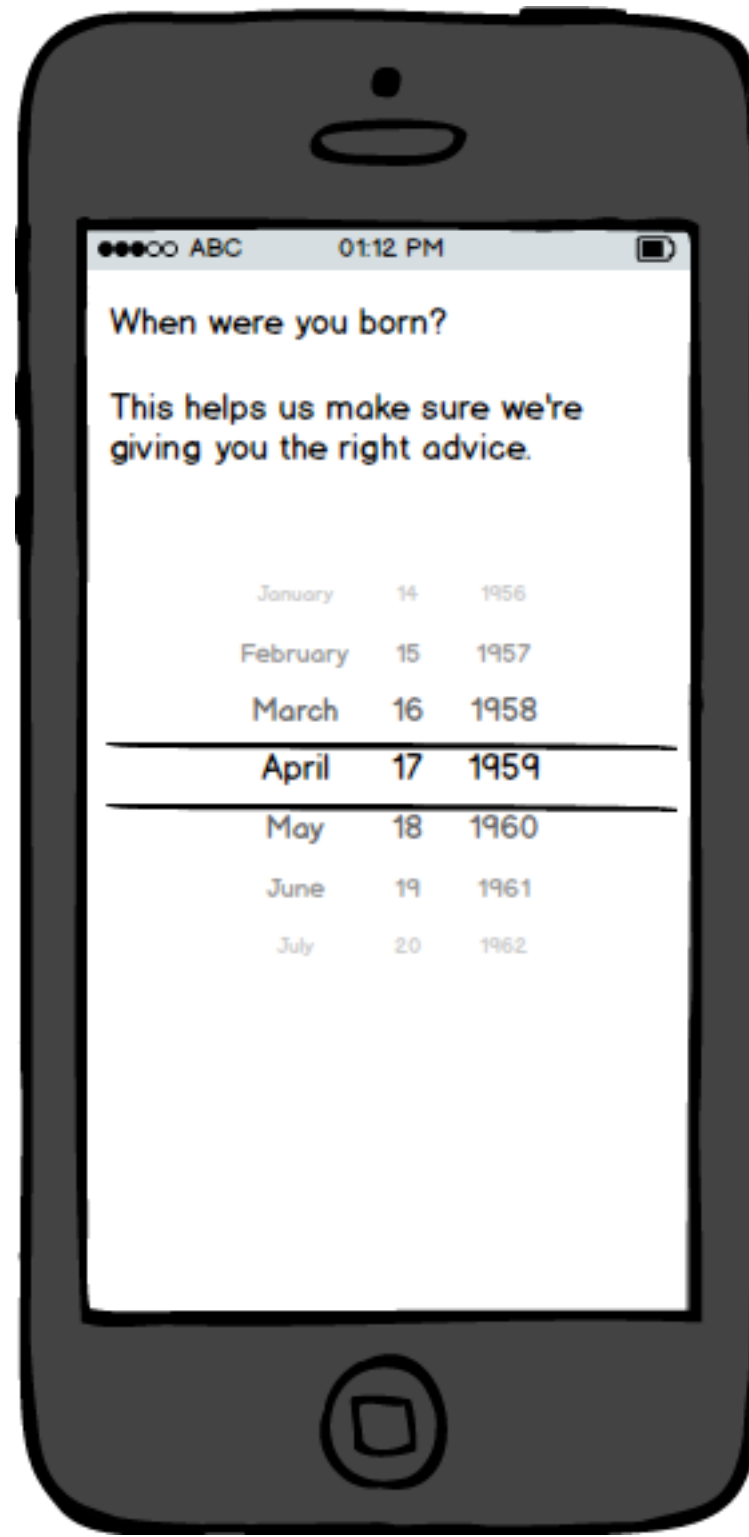
Crowdsourcing!

How?

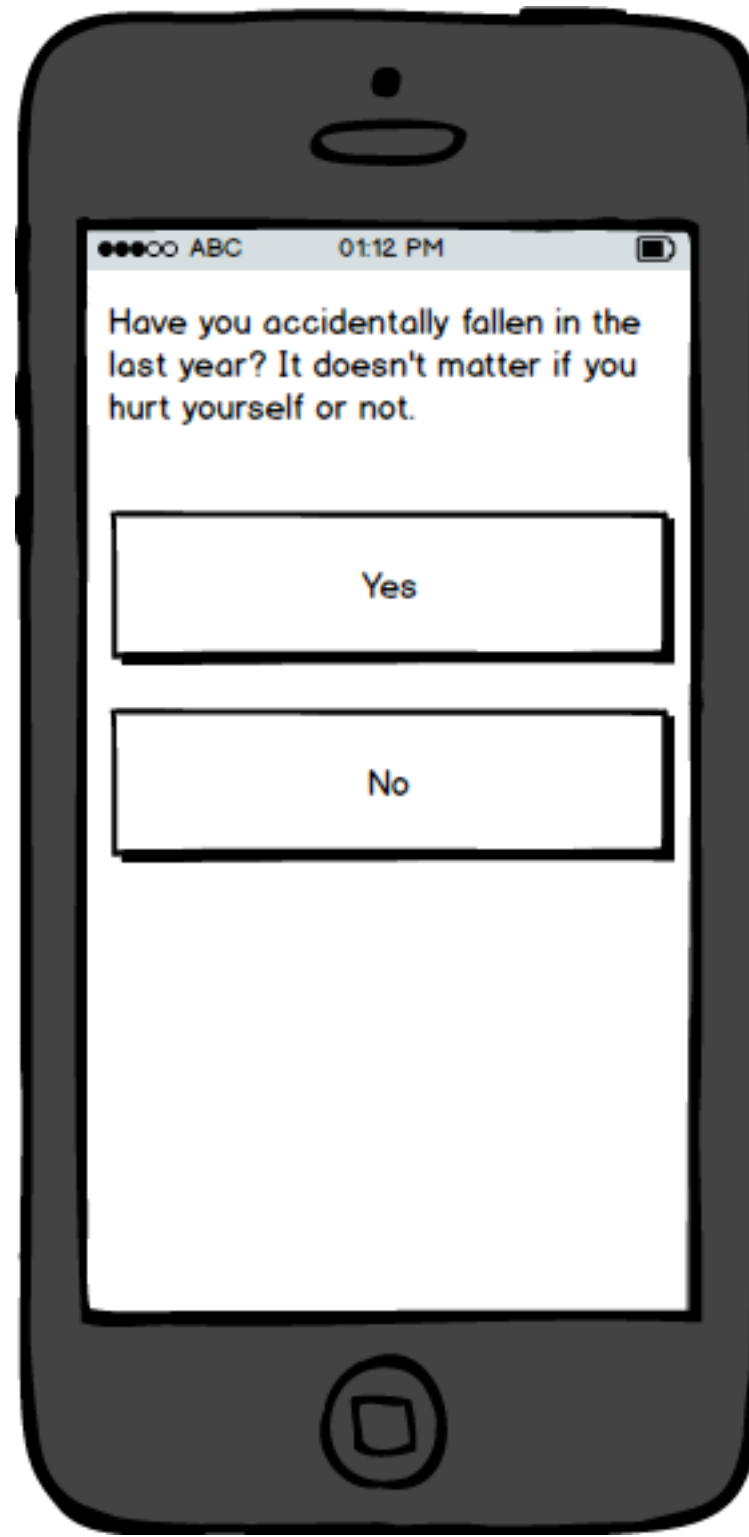
- An app or website for citizens.
- Asks series of questions to identify fall risk.
- Attempts to match the citizen to the best supporting service.
- Collects demographic and risk data, as well as identifying holes in service provision.

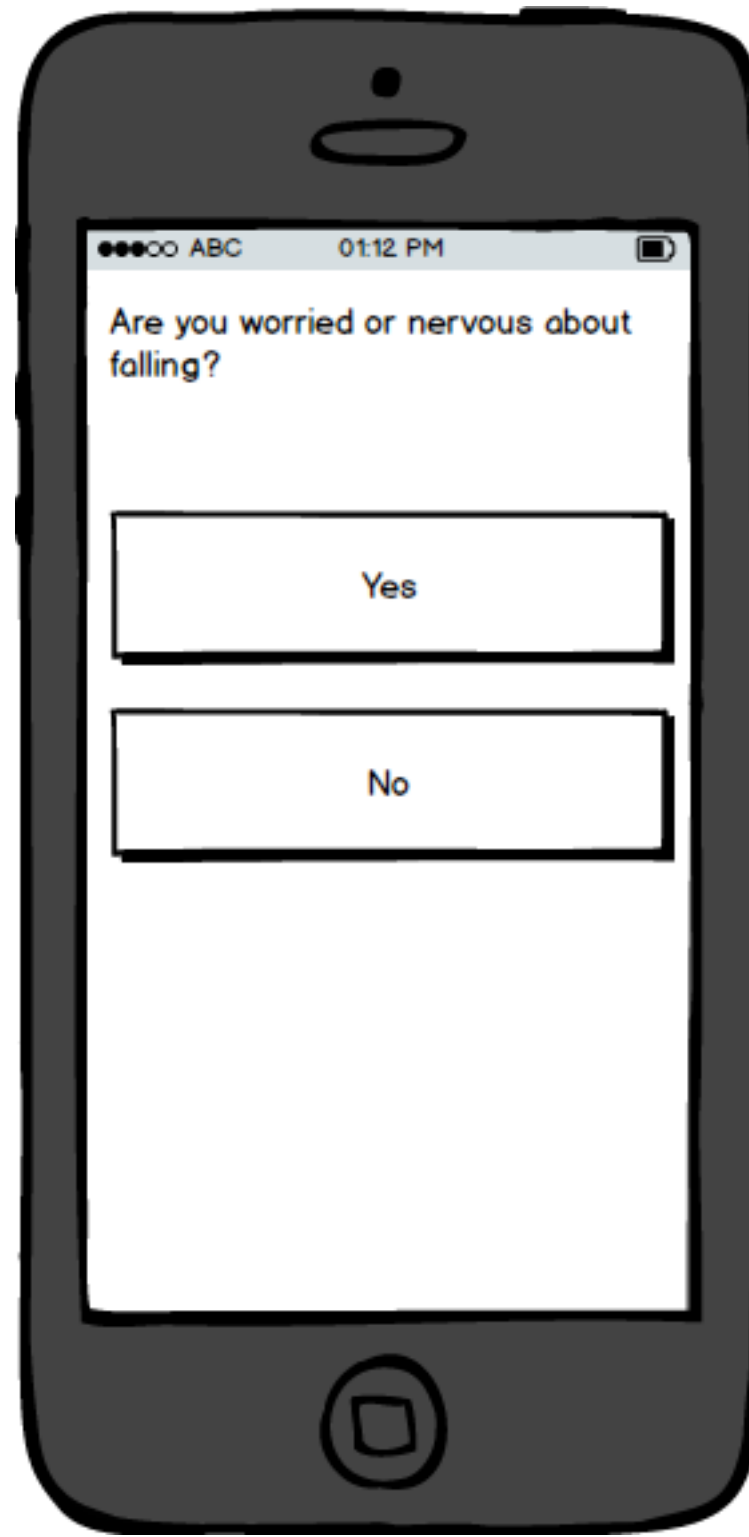
Wireframes

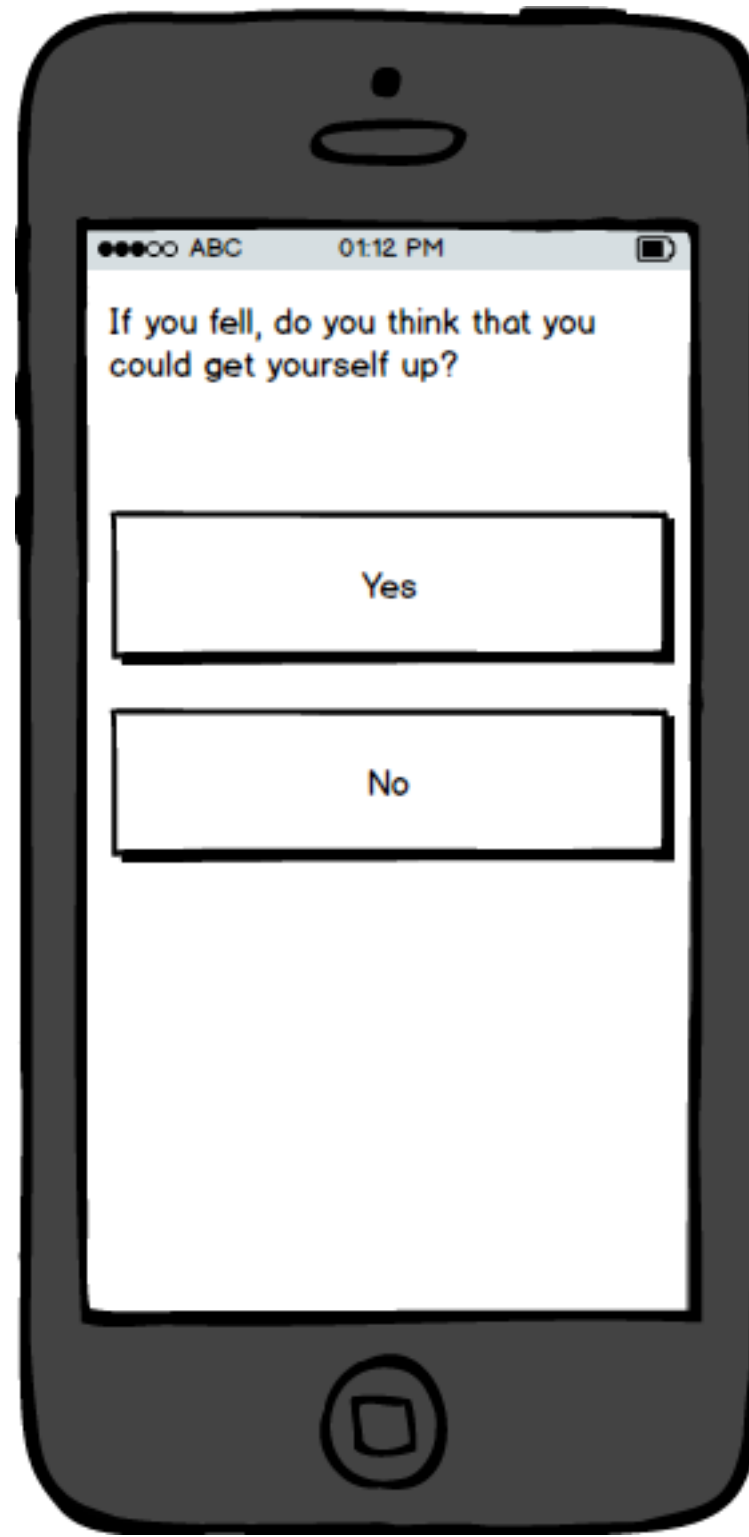






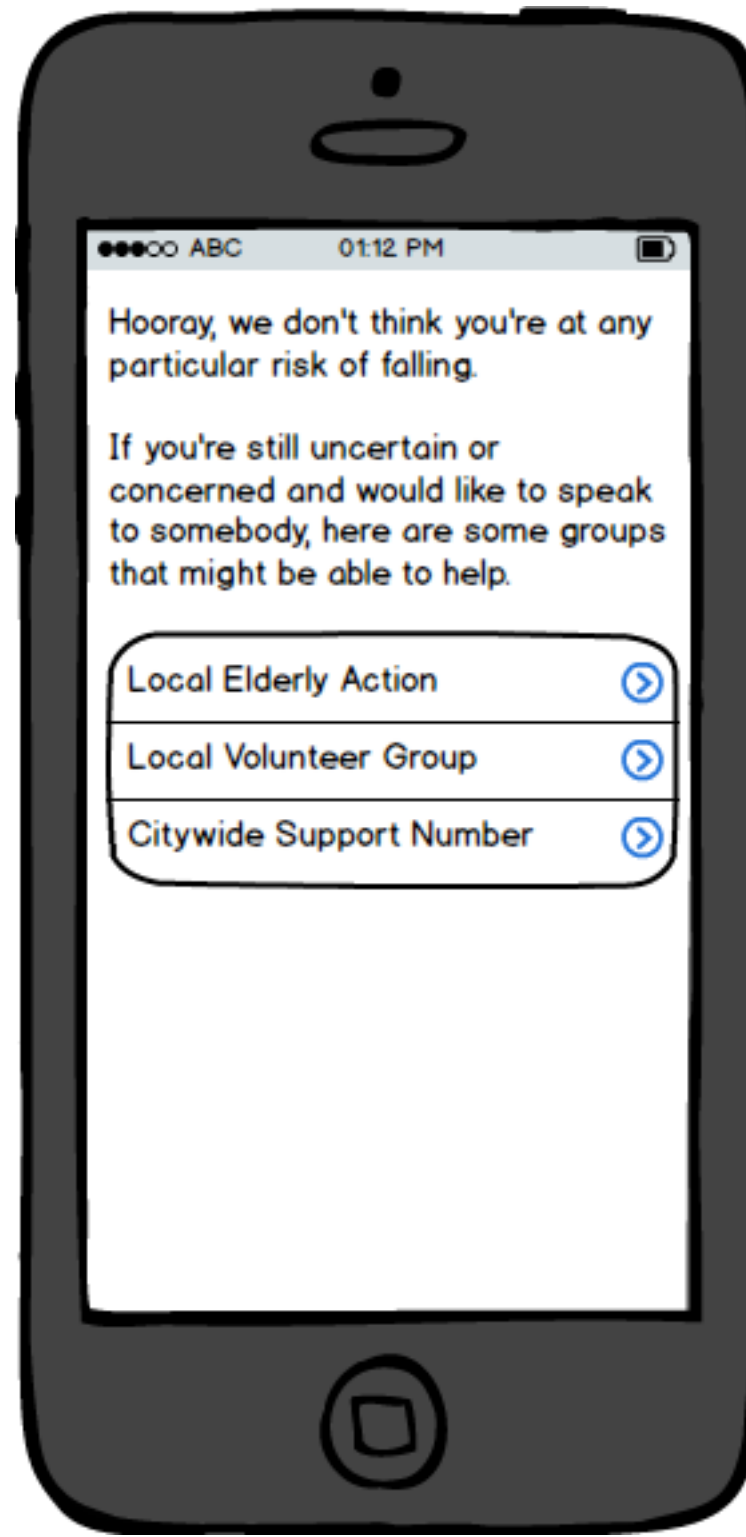


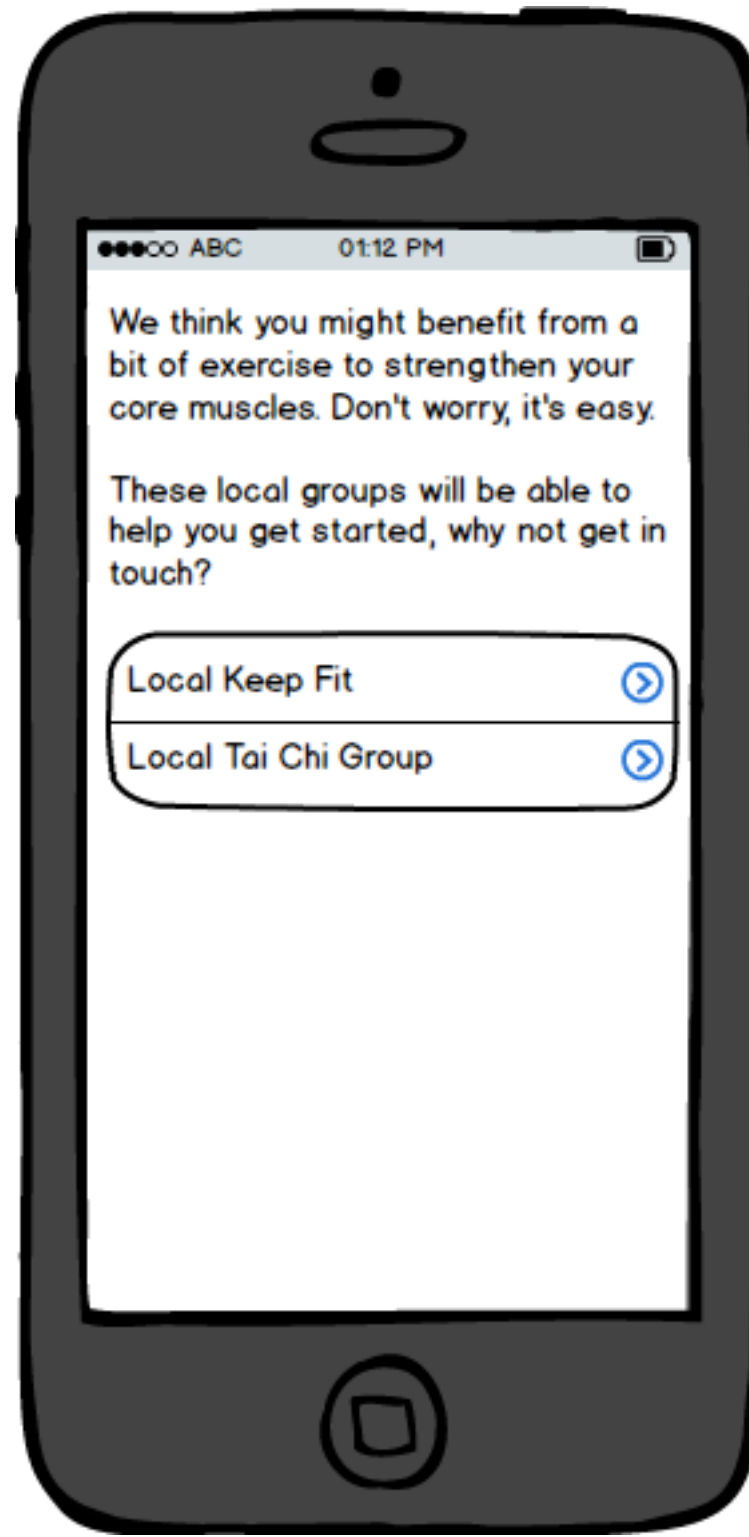


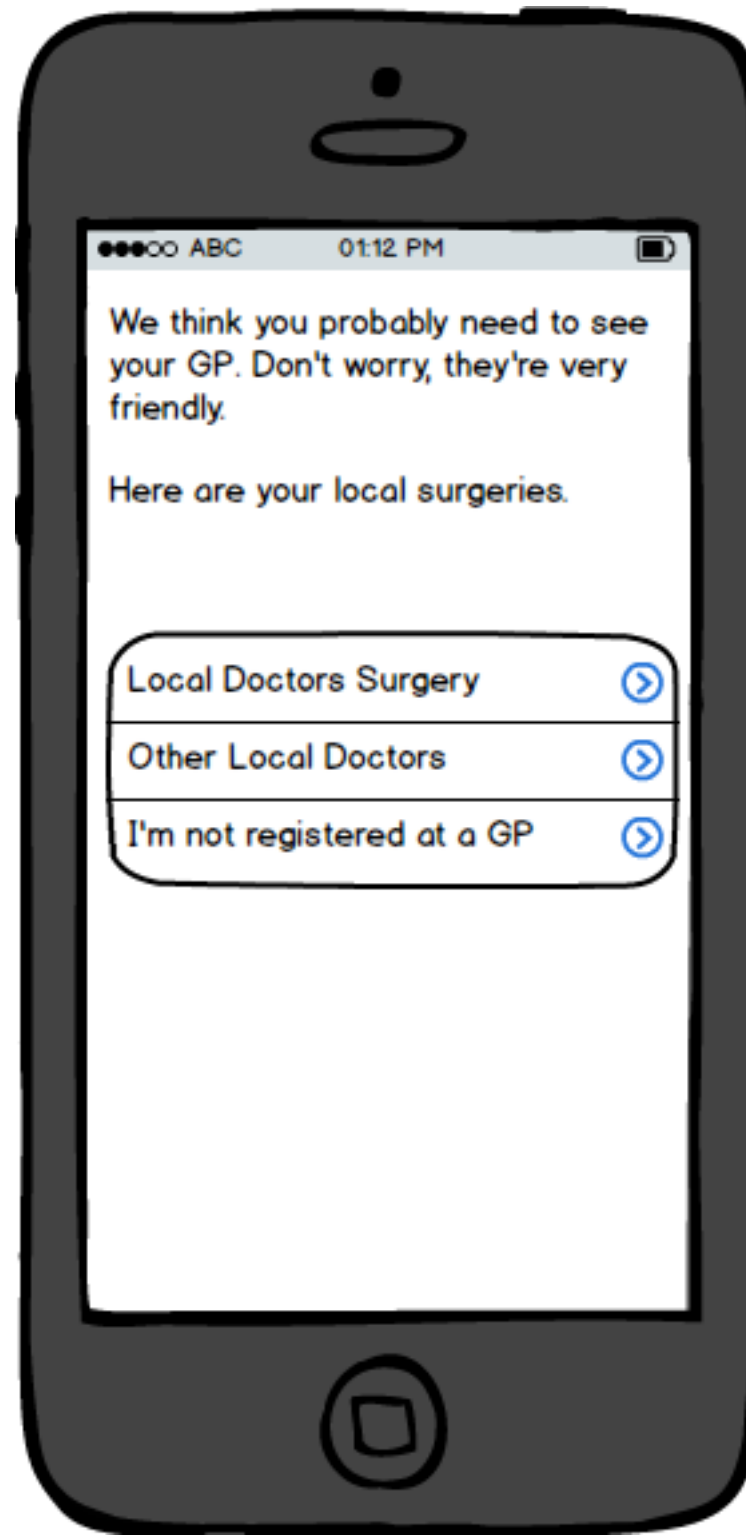


Behind the Scenes

- The app sends the age, location and calculated risk profile to a web service.
- The web service turns the risk profile into a set of service requirements, and asks the Service Directory for its best suggestions.
- The web service records the age band, location and fall risk profile.

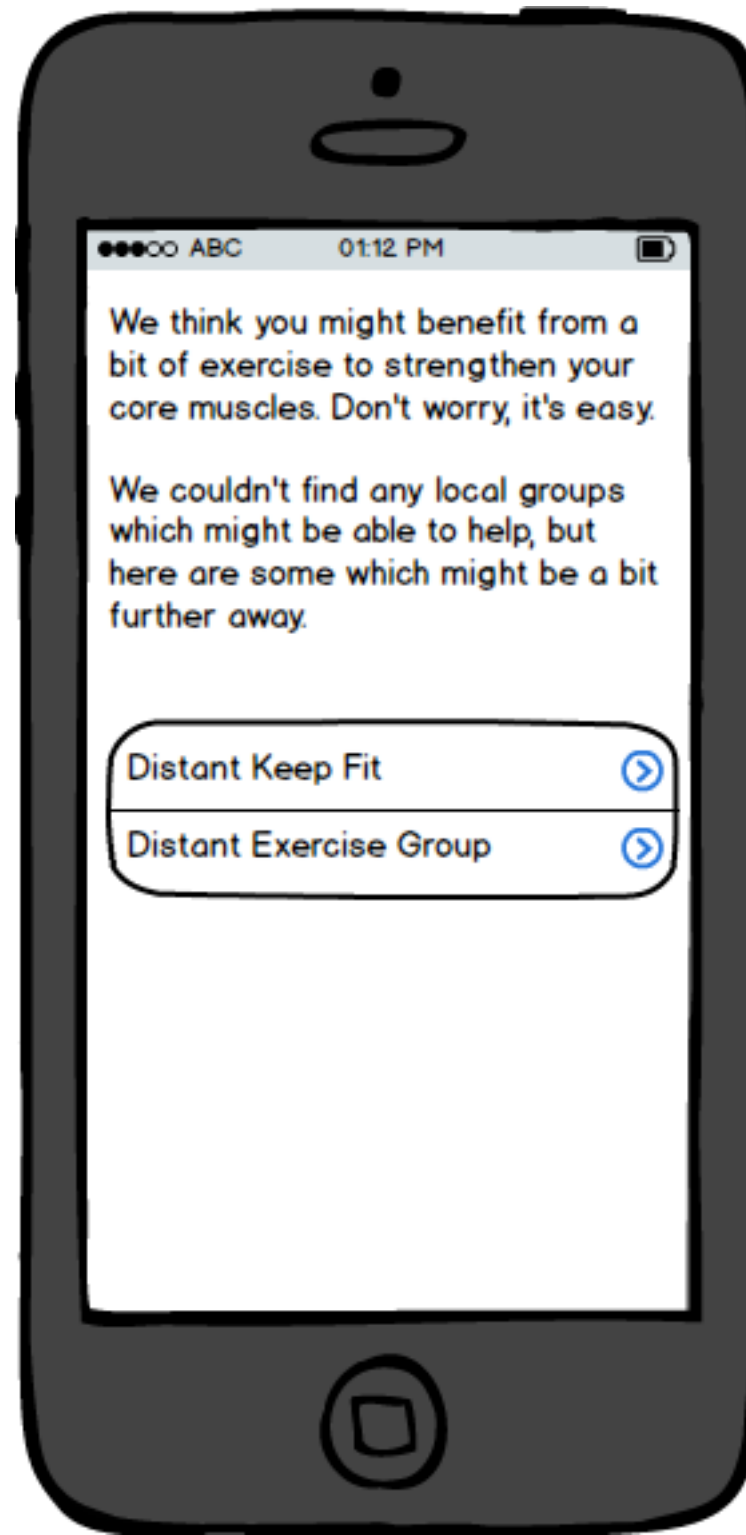






But wait!

What if there are no suitable local services?



ABC

01:12 PM



We think you might benefit from a bit of exercise to strengthen your core muscles. Don't worry, it's easy.

We couldn't find any local groups which might be able to help, but here are some which might be a bit further away.

Distant Keep Fit

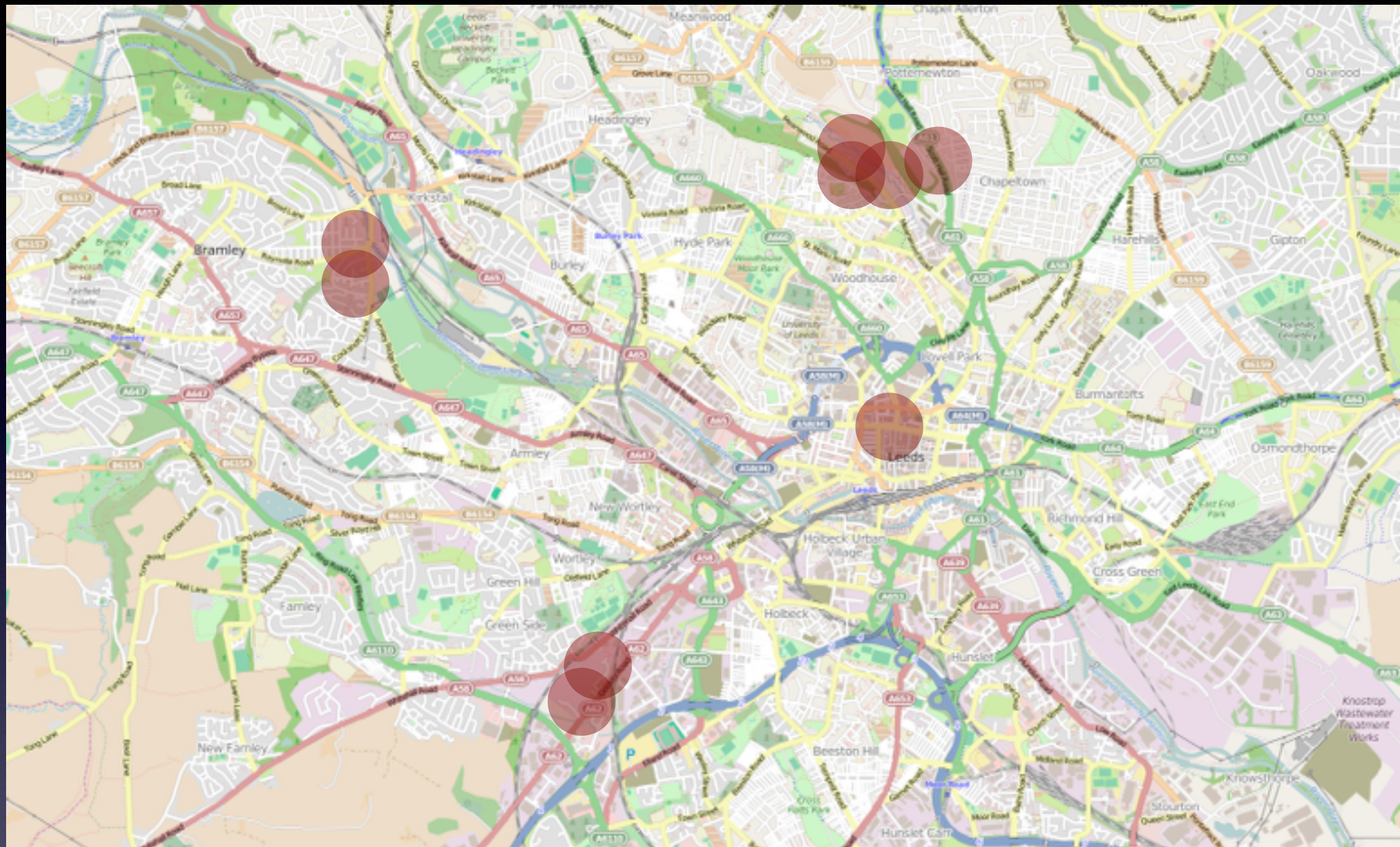


Distant Exercise Group



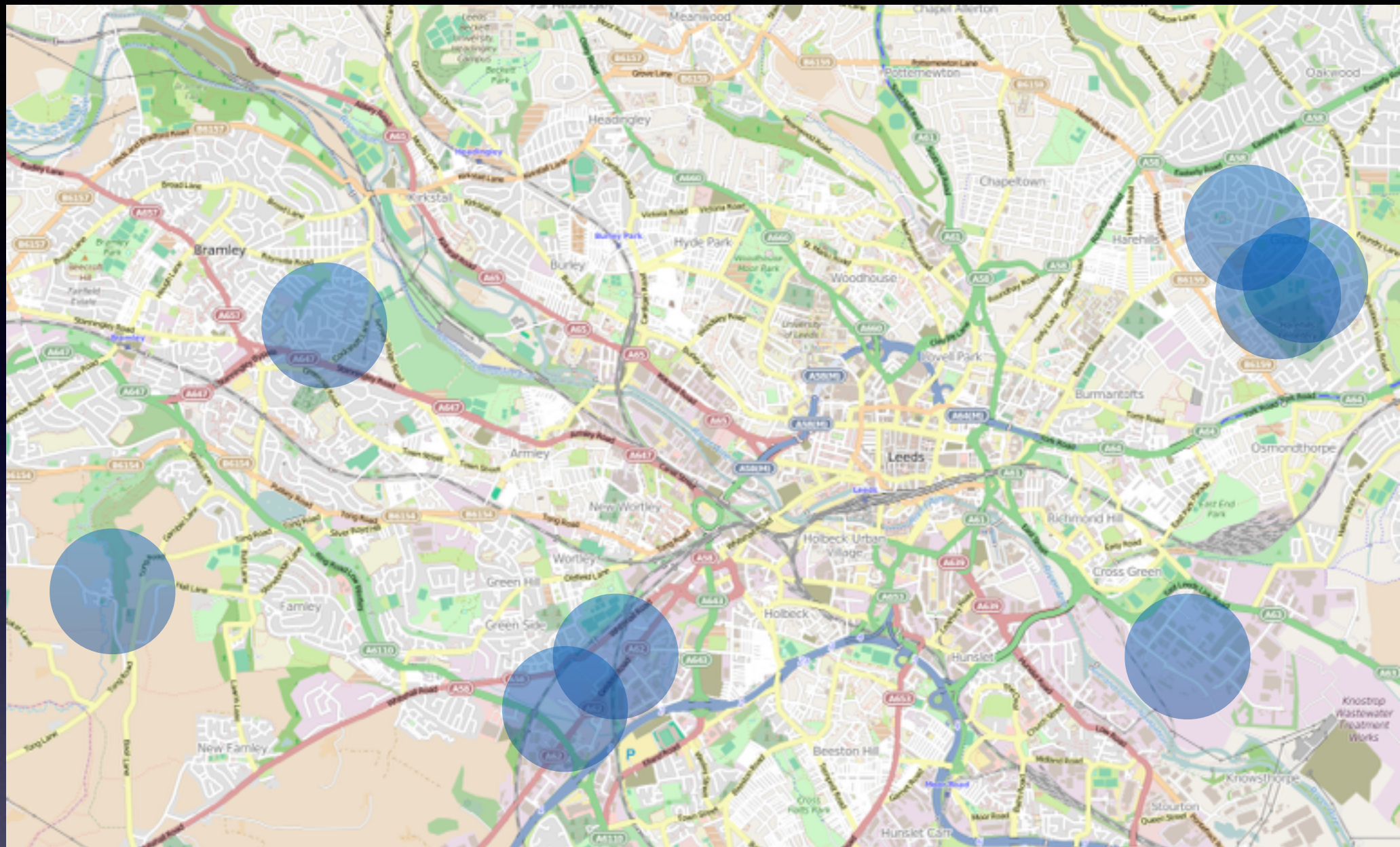
Behind the Scenes

- The 'missing' service offering is recorded.



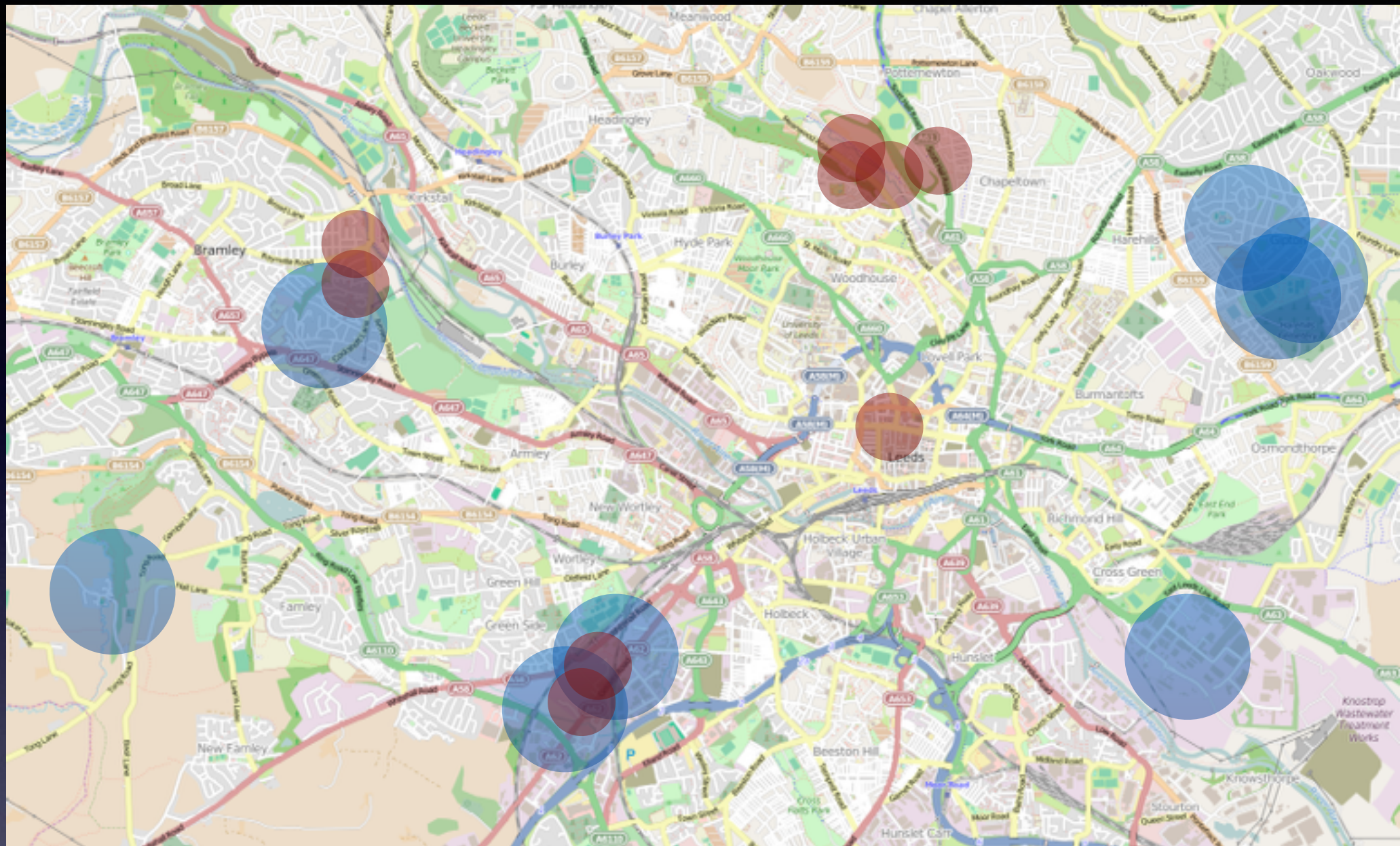
Risk Map

Highlight particular risk trends to allow focussing of pre-emptive support.



Missing Services

Areas which have an identified need for a specific service, but which aren't being served.



Mashups!

Do risk hotspots match up with missing care?

But first...

leedsdirectory.org

Helpline:
0113 391 8333
Twitter Facebook

LeedsDiRECTORY.org
the easy way to find reliable, flexible services in your area

Home Services Events Micro-Tender Noticeboard Downloads About Us Provider Information Accessibility Search

SEARCH RESULTS FOR:

A J Social Care
Home care provider.
4225 Park Approach, Leeds LS15 8GB
<http://www.ajsocialcare.co.uk>
communitycareleeds@ajsocialcare.co.uk
<http://www.cqc.org.uk/location/1-115002084>
0330 555 2277

★★★★★
12 RATINGS
CareQuality Commission

✓

Reflections Community Support
We are a not for profit, community based

★★★★★
4 RATINGS
CareQuality

Search and Filter

Sort Results
Sort Results By

Search by Company Name
Search by Company Name

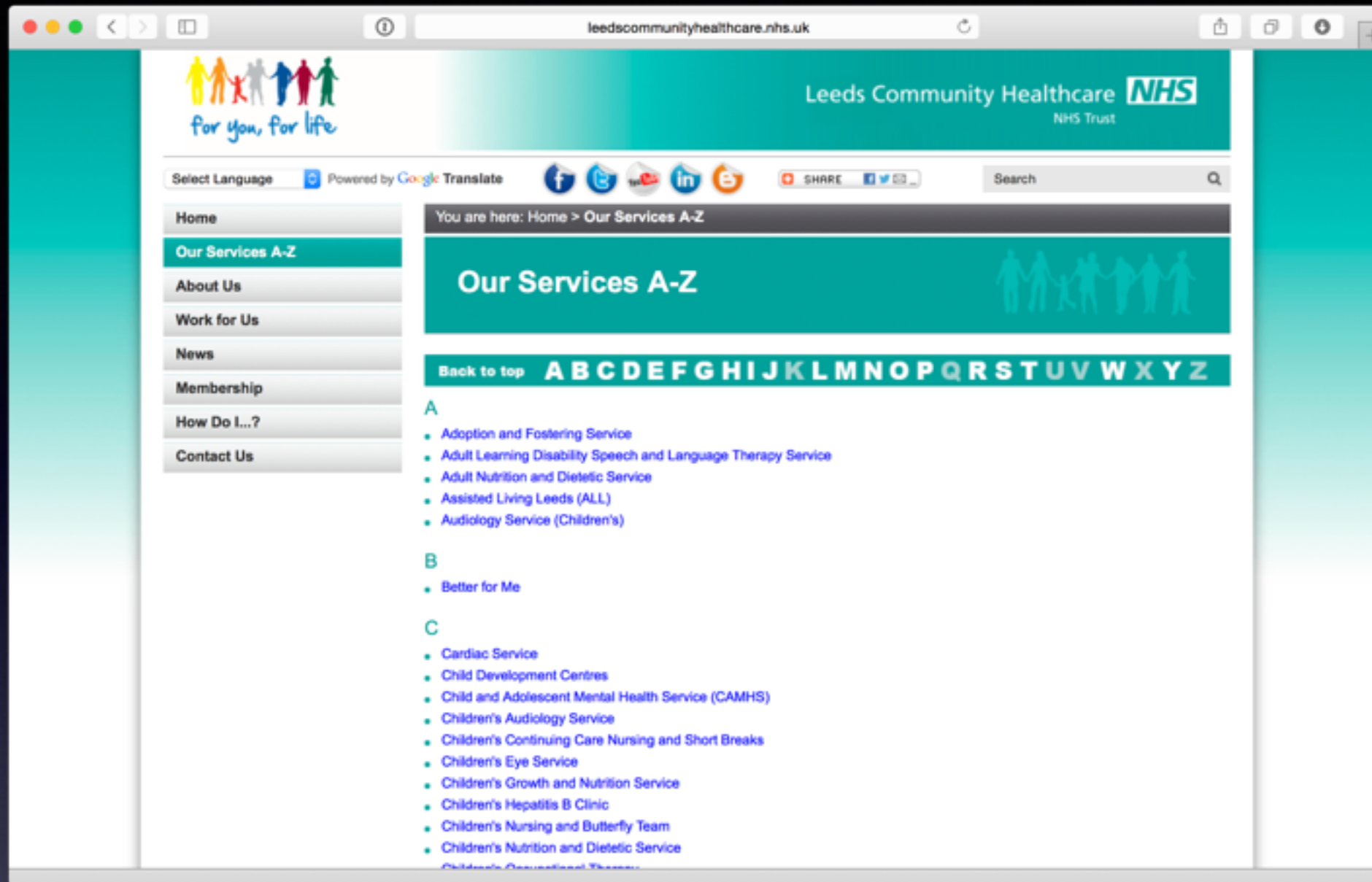
Services Around the Home
All services Around the Home

Health and Personal Services
Wellbeing Services (78) ✕

In Your Community Services

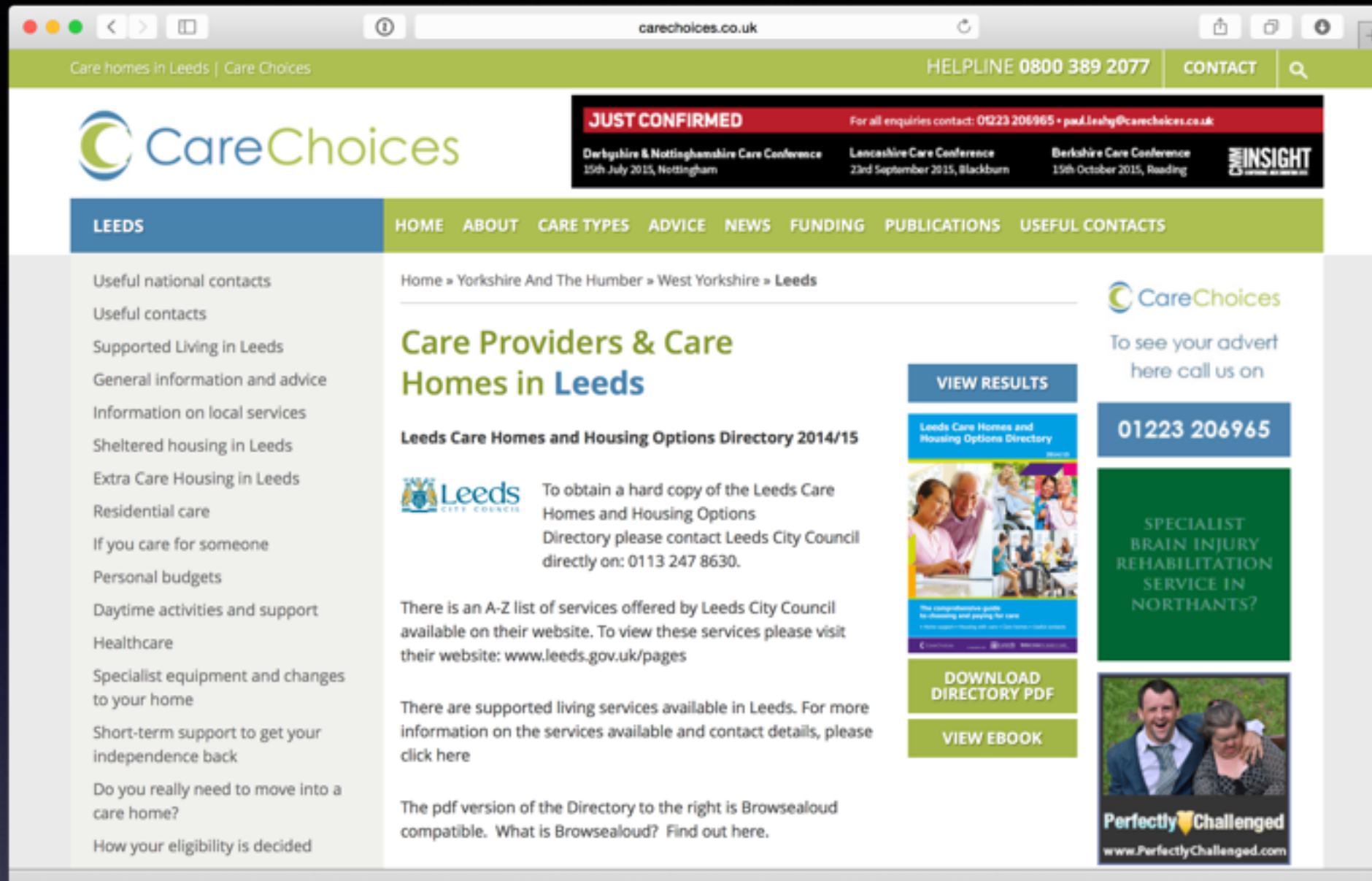
Leeds Directory

It's full of good stuff, but it's trapped.



Leeds Community Healthcare

It's full of good stuff, but it's trapped.



CareChoices

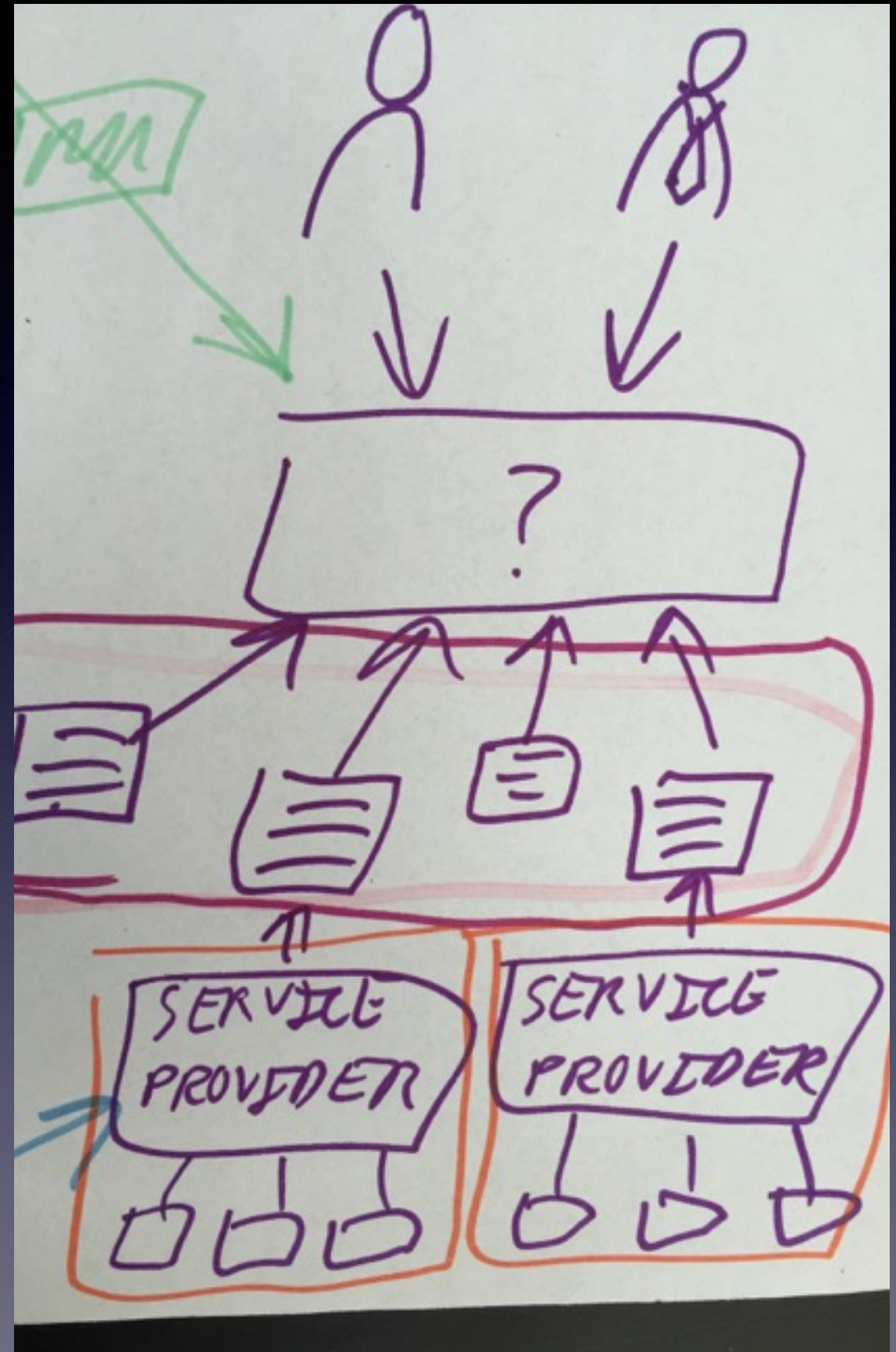
It's full of good stuff, but it's trapped.

Service Provision Data

- We need a standard, machine readable way for service providers to advertise their services.
- A single citywide service aggregator can then slurp up all the available services.
- Smart searching can match needs to service provision citywide without domain specific knowledge.

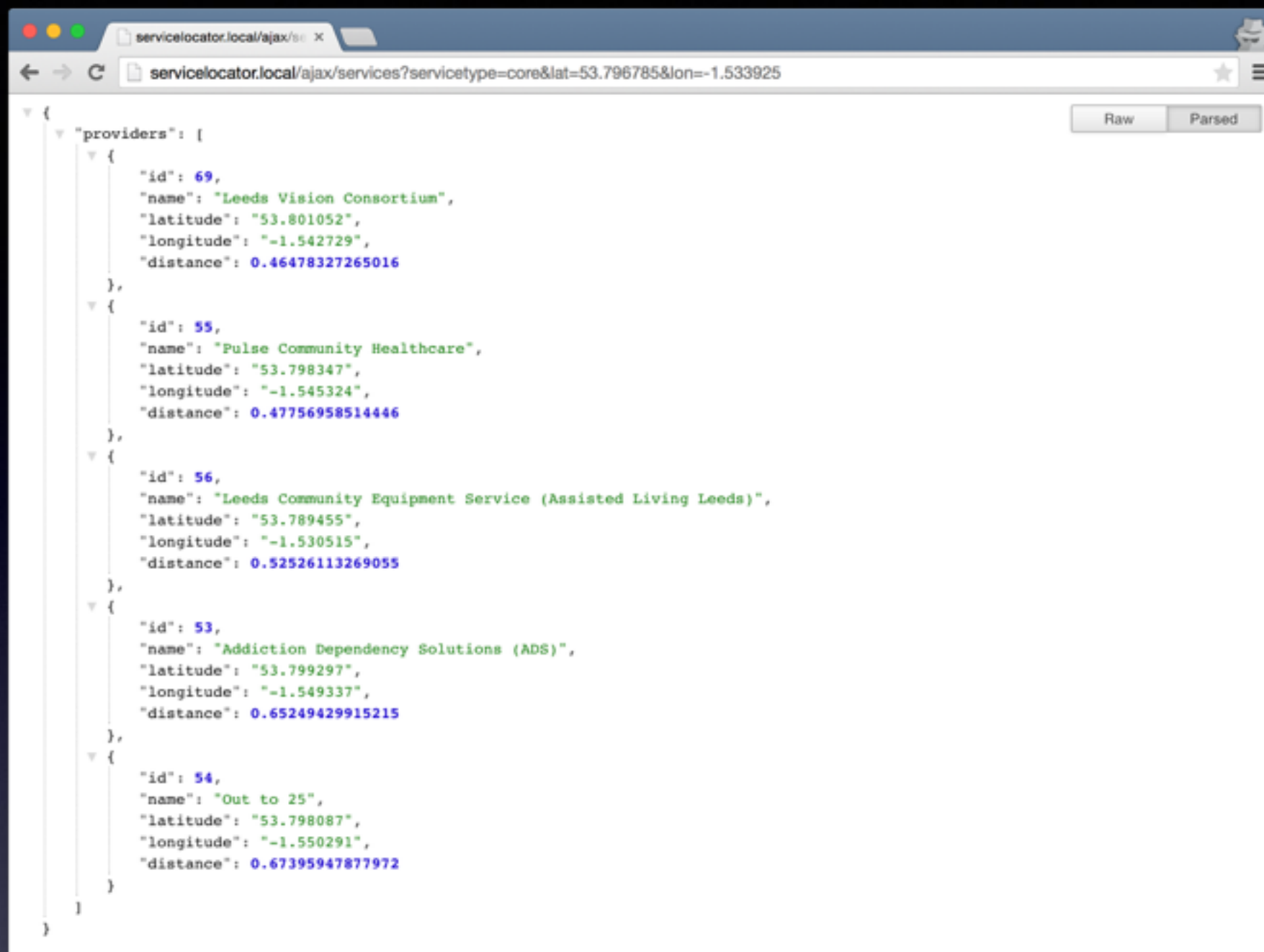
We even sketched it.

Abstracting things away
from users almost always
increases flexibility.



Why is this better?

- Reduced duplication of effort across sectors.
- Places publishing of services directly with the service provider, rather than a middleman.
- Single source of data for websites, apps, caregivers, self-service directory etc
- High-level aggregation and statistics.



```
{
  "providers": [
    {
      "id": 69,
      "name": "Leeds Vision Consortium",
      "latitude": "53.801052",
      "longitude": "-1.542729",
      "distance": 0.46478327265016
    },
    {
      "id": 55,
      "name": "Pulse Community Healthcare",
      "latitude": "53.798347",
      "longitude": "-1.545324",
      "distance": 0.47756958514446
    },
    {
      "id": 56,
      "name": "Leeds Community Equipment Service (Assisted Living Leeds)",
      "latitude": "53.789455",
      "longitude": "-1.530515",
      "distance": 0.52526113269055
    },
    {
      "id": 53,
      "name": "Addiction Dependency Solutions (ADS)",
      "latitude": "53.799297",
      "longitude": "-1.549337",
      "distance": 0.65249429915215
    },
    {
      "id": 54,
      "name": "Out to 25",
      "latitude": "53.798087",
      "longitude": "-1.550291",
      "distance": 0.67395947877972
    }
  ]
}
```

Healthcare Providers

From Leeds Directory, the 5 geographically closest to Munro House (that's here).



Service Travel Distance

How long will it take to get to a specific service provision from different areas of the city?

So, what next?

- Develop (or find) a sensible publishing standard for service descriptions.
- Convert at least one list of services to publish their offerings using this standard.
- Implement a service aggregator proof of concept.
- Start using it as part of the backbone of services in things like the fall advice app.

Feedback Loop

- Gradually transition to the directory being the standard way to publish service availability.
- Data quality will improve over time as errors are reported.
- Improved data leads to improved usage, which leads to improved accuracy in location of older users, their needs, and gaps in the service provisions.

Questions?