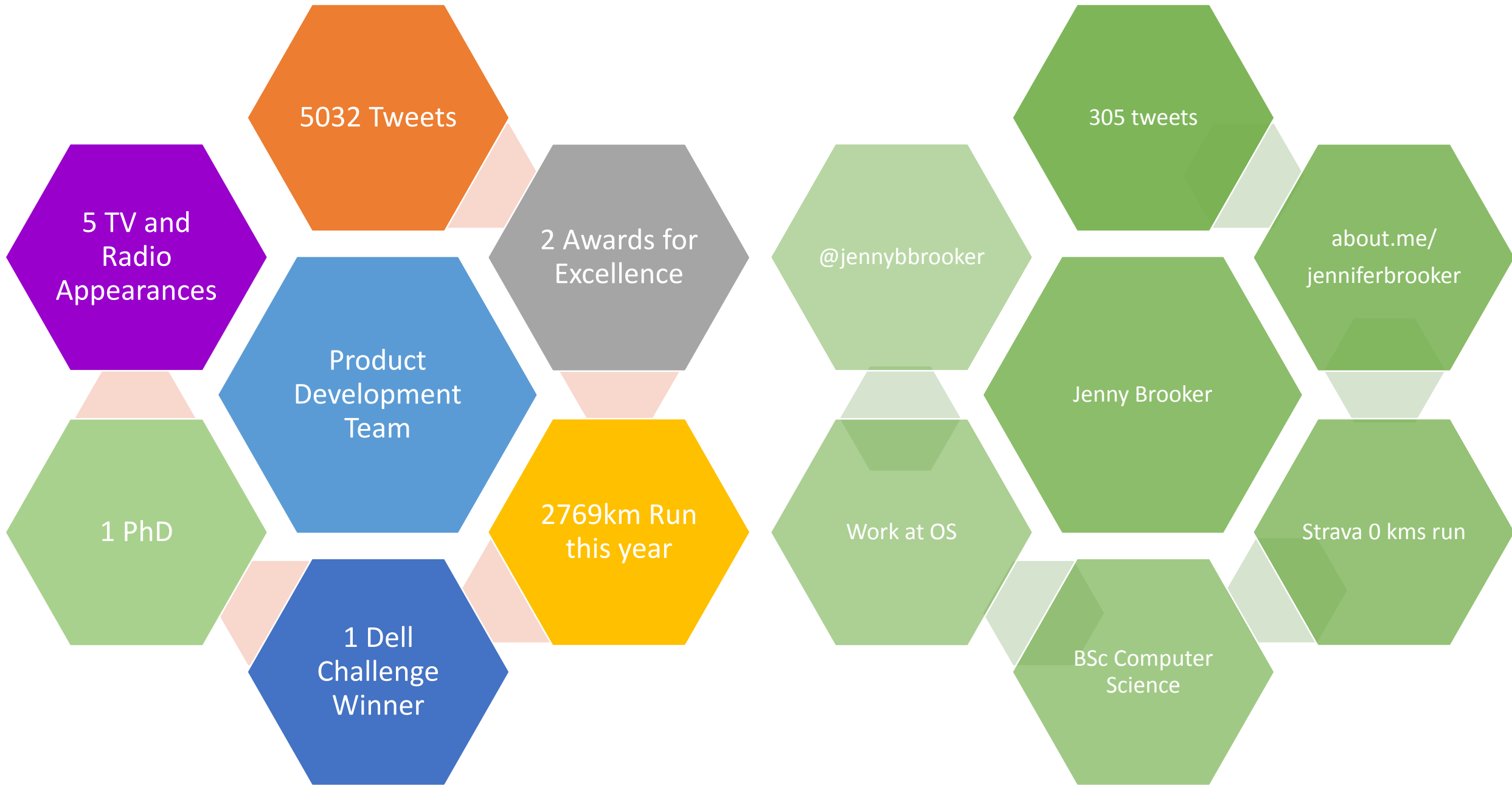


Technology wont save us but
Data Engineers just might

Jenny Brooker
@jennybrooker



2004





App Startups

- Most apps are not even retained for a day
- 46% of US users are using one to five apps per week

Government

- Data.gov.uk had 238300 visitors in November.
- GDS are running 805 digital services.
- ONS is investing £17m in a new Data Science Campus.

Corporations

- 1.1 million amazon prime users in UK .
- Ocado employ 400 software developers.

National Rise in Demand for
Big Data Jobs:

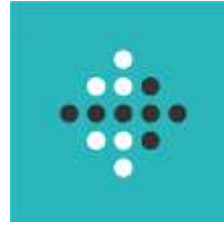
41%

2012-2013

Data Engineering

Data Science

Data Analytics



Google



225,317,000,000

Eventbrite™

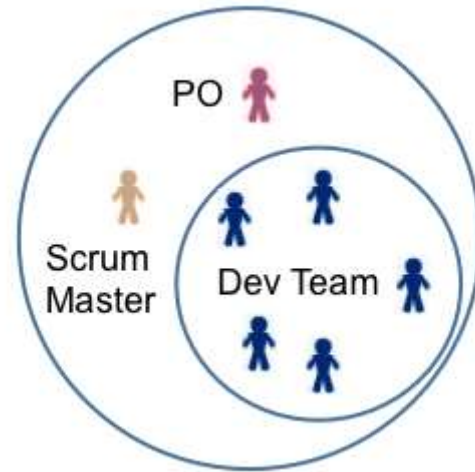


10,000

225,317,010,000

Meet Lucy the Data Engineer...

1. Simplify Data
2. Derive new Data
3. Link Data



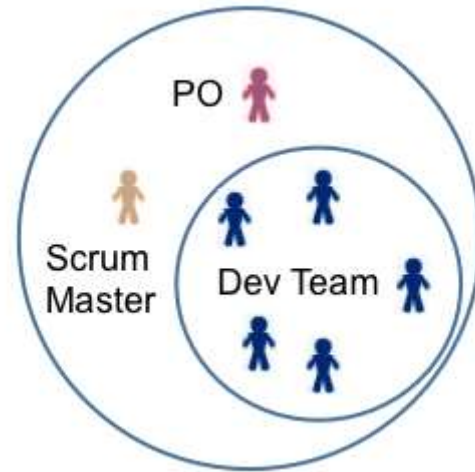
“Get the right data to the right people at the right time.”

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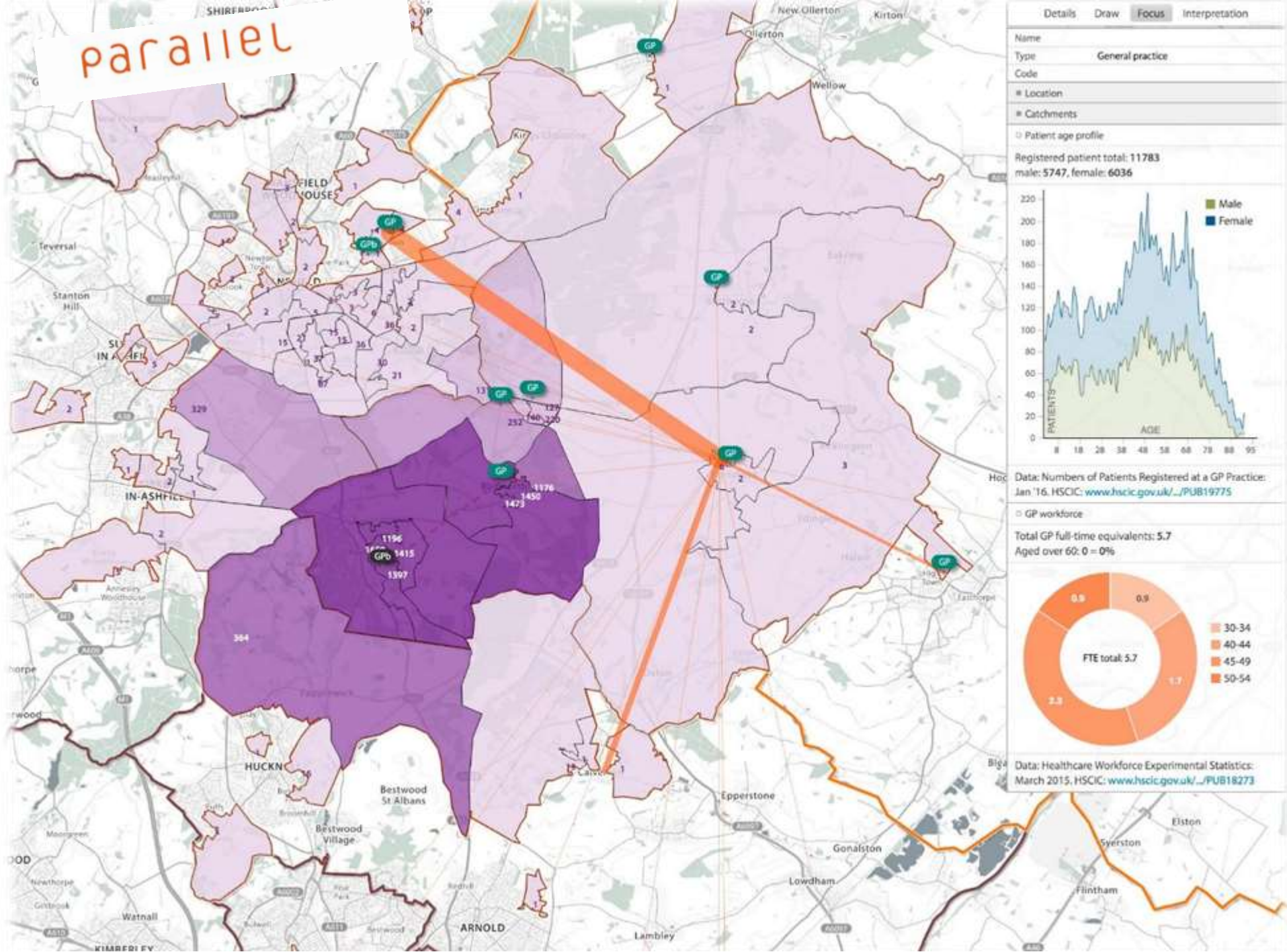
3. Link Data



“Get the right data to the right people at the right time.”

Simplifying 143,349 buildings
to 10,000 buildings in
Southampton.

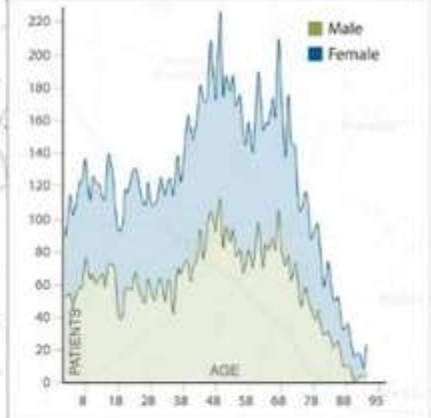




parallel

Details Draw Focus Interpretation

Name	
Type	General practice
Code	
Location	
Catchments	
Patient age profile	
Registered patient total:	11783
male:	5747, female: 6036



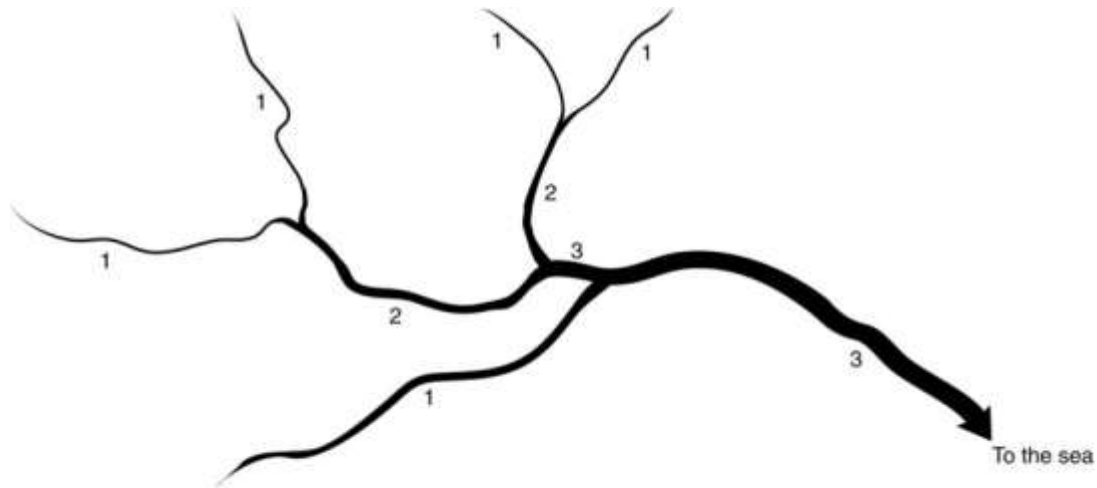
Data: Numbers of Patients Registered at a GP Practice: Jan '16, HSCIC: www.hscic.gov.uk/_/PUB19775

GP workforce
 Total GP full-time equivalents: 5.7
 Aged over 60: 0 = 0%



Data: Healthcare Workforce Experimental Statistics: March 2015, HSCIC: www.hscic.gov.uk/_/PUB18273

Simplifying 143,349 buildings
to 10,000 buildings in
Southampton.



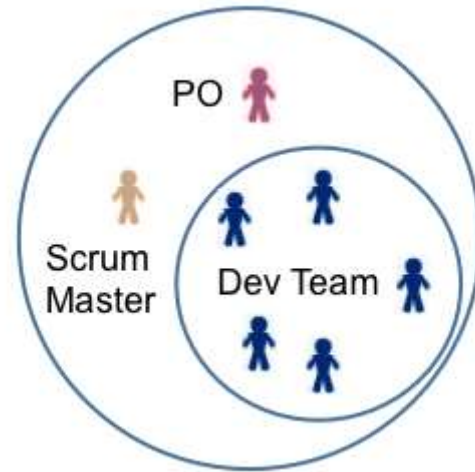
OS Open Rivers maps over
144,000 kms of watercourses

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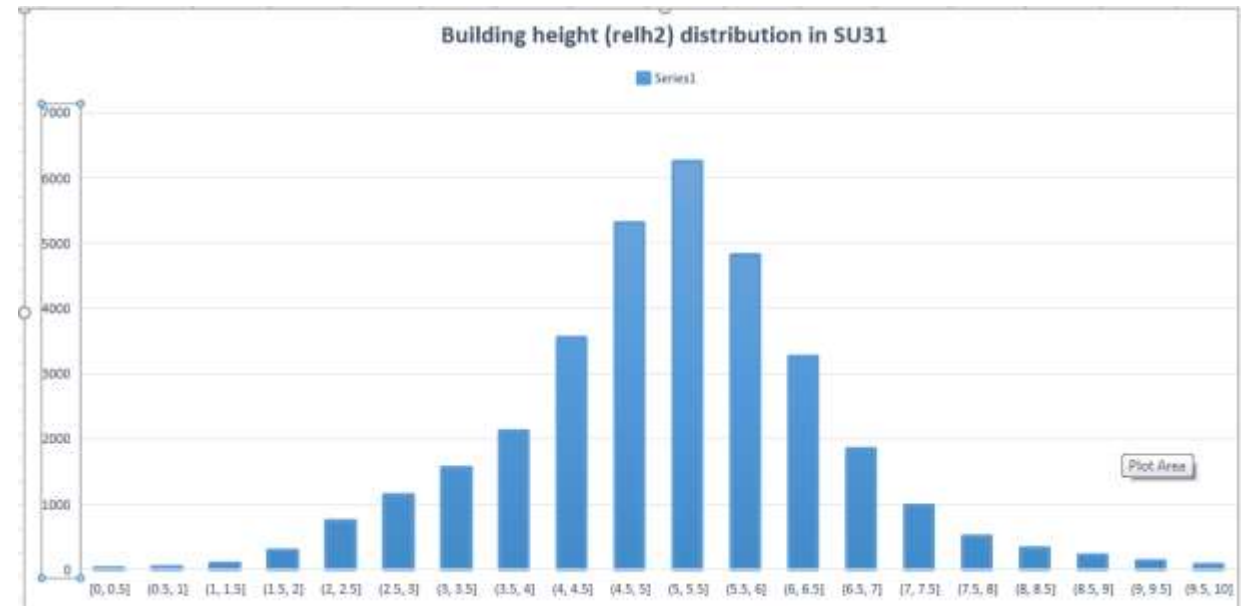


“Get the right data to the right people at the right time.”



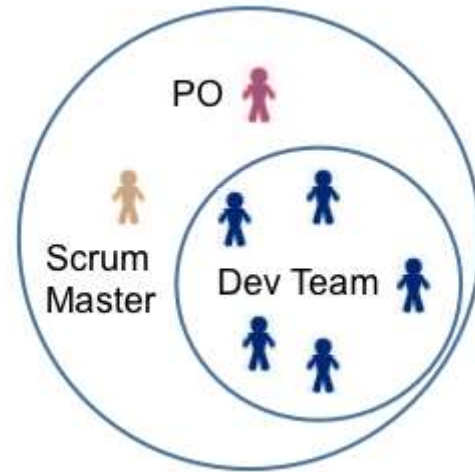
20% of houses in Portsmouth have a south facing garden.

There are more than 6000 two-storey houses in Southampton



Meet Lucy the Data Engineer...

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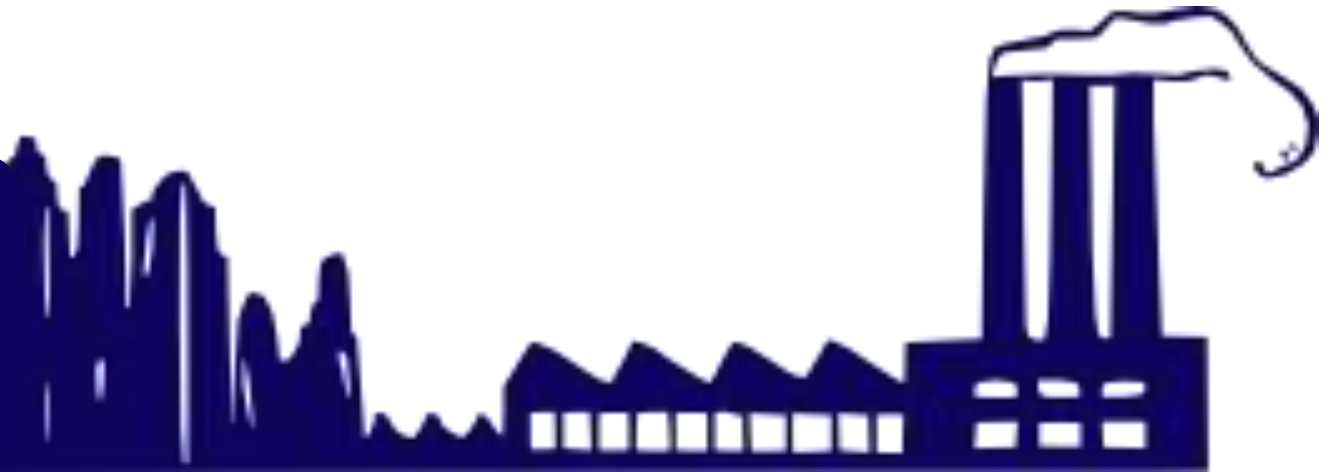


“Get the right data to the right people at the right time.”



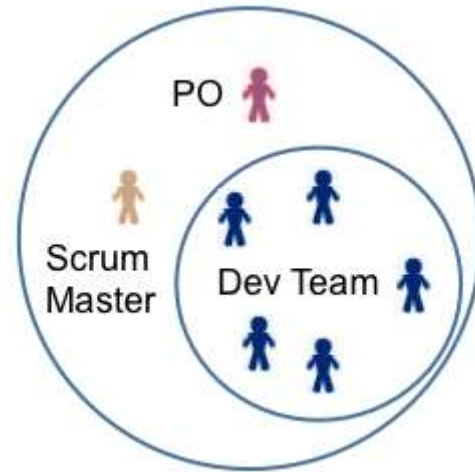
There are 214 highway authorities across the UK.

**69 manufacturing
companies registered in
SO16.**



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What are those
Data
Scientists/Analysts
up to?

“Get the right data to the right people at the right time.”

Menu

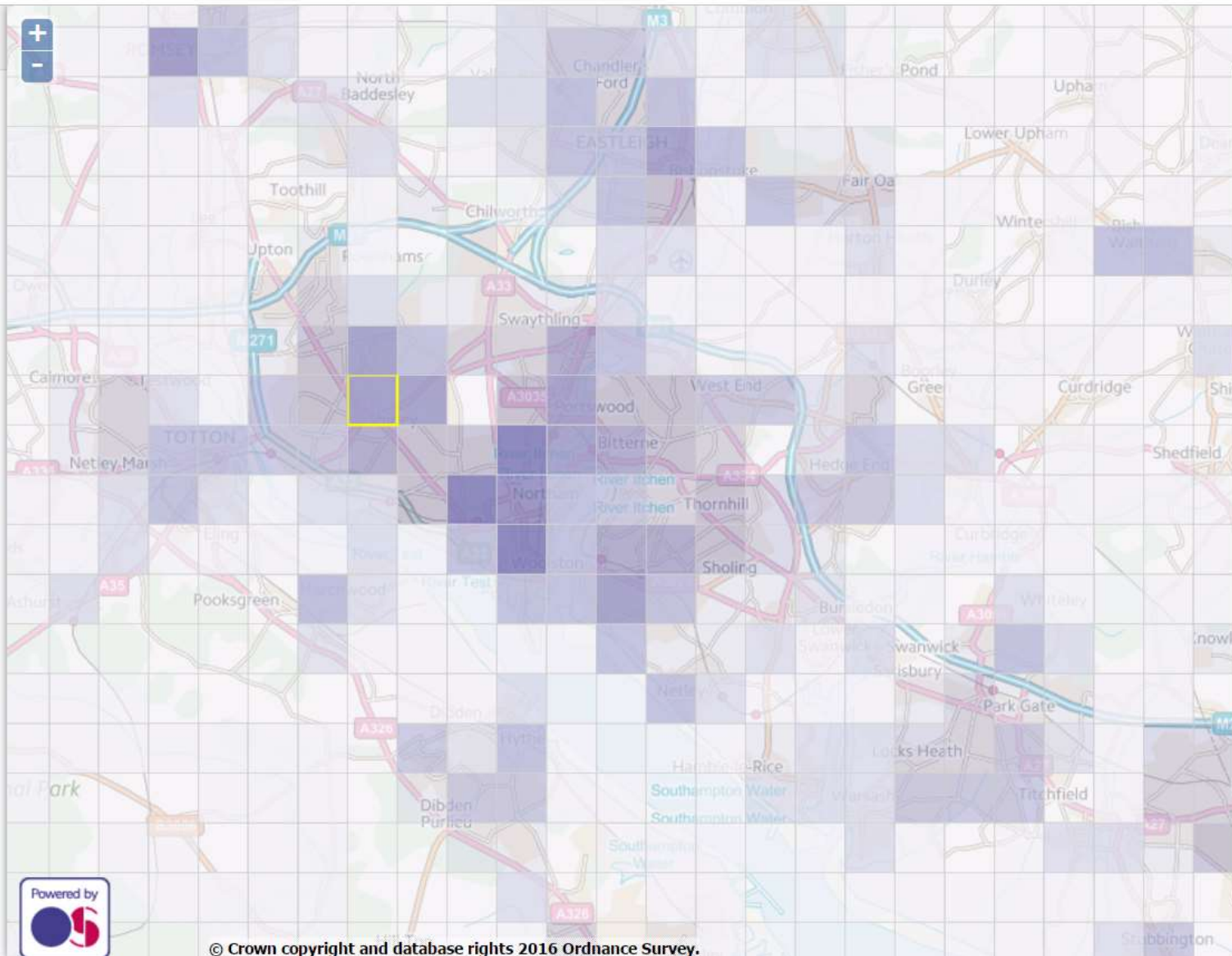


Use this menu to select which attribute you would like to see a density map for.

Select a style

Clear Style

- Total number of addresses
- Total number of approved addresses
- Total number of provisional addresses
- Total number of historical addresses
- Total number of approved residential addresses
- Total number of approved commercial addresses
- Total number of approved postal addresses
- Total number of approved non postal addresses
- Total number of buildings
- Total area covered by highways
- Total area covered by rail
- Total area covered by inland water
- Total area covered by tidal water
- Total area covered by foreshore
- Total number of schools
- Total number of electrical features
- Total number of bus stops

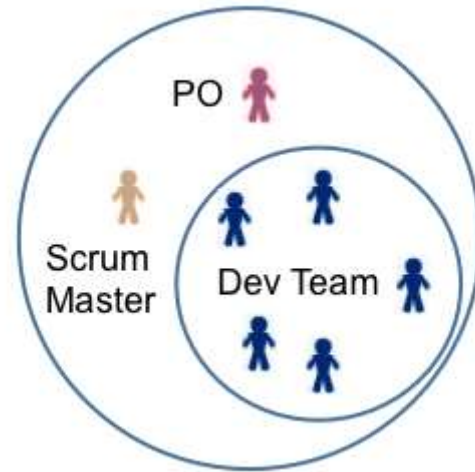


Tile Reference	SU3914
Addressing	
Number of Addresses	3339
Approved Addresses	3223
Provisional Addresses	0
Historical Addresses	116
Approved Residential Addresses	2739
Approved Residential Addresses (%)	84.98 %
Approved Commercial Addresses	201
Approved Commercial Addresses (%)	6.24 %
Approved Postal Addresses	2926
Approved Postal Addresses (%)	90.79 %
Approved non-Postal Addresses	297
Approved non-Postal Addresses (%)	84.98 %
Average Multi-Occupancy	0.35
Postcodes	146
Natural	▼
Transport	▼
Health	▼
Education	▼



Meet Lucy the Data Engineer...

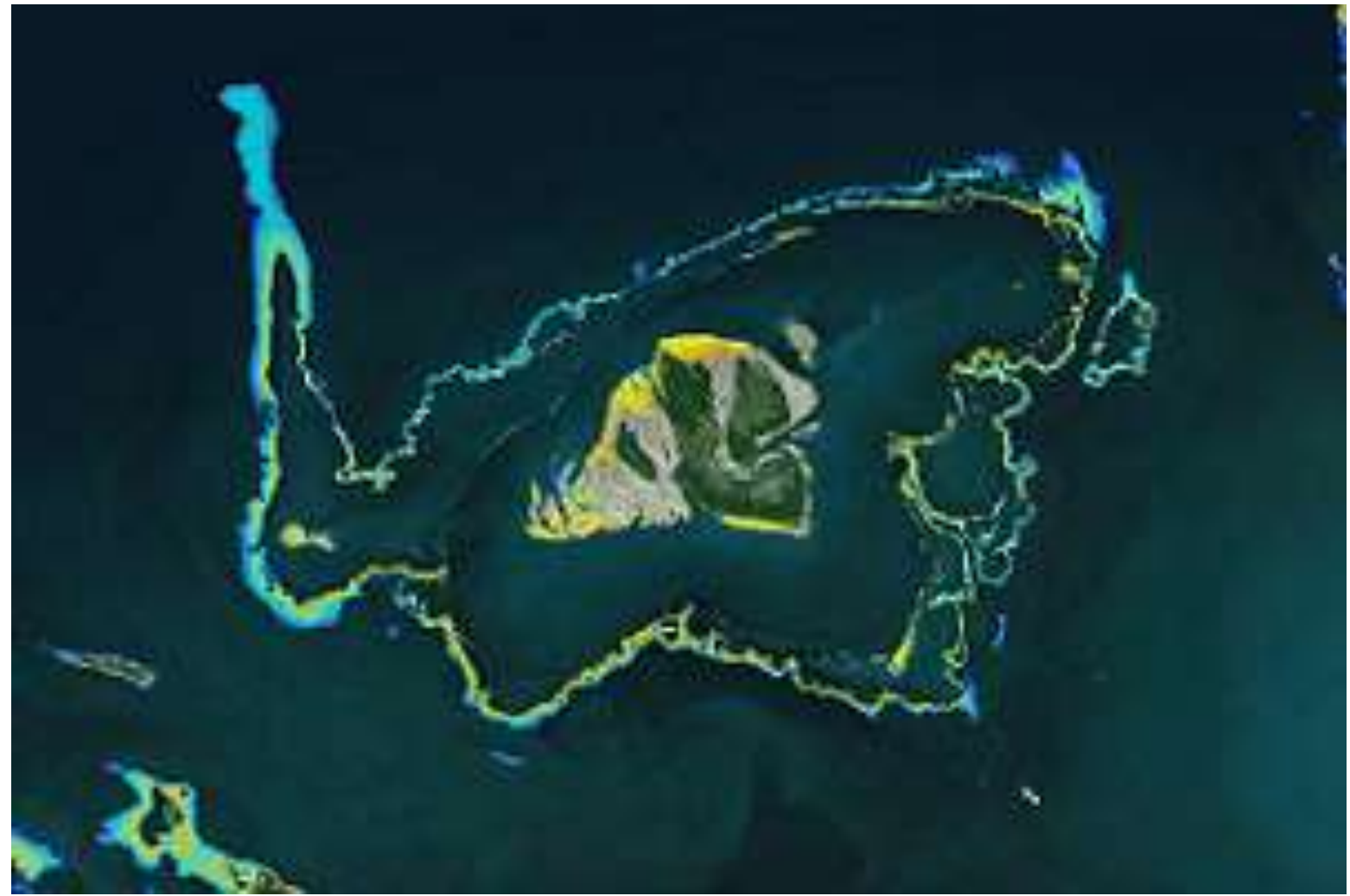
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Australian Geoscience
DATA CUBE





IBM Watson News Explorer recent news about as investigate advanced [-]

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- NASA asteroid mission on track despite SpaceX rocket explosion
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Rocket
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Timeline news articles across 0 days, 16 hrs, 0 min, 0 sec up to the current date: 9/2/2016

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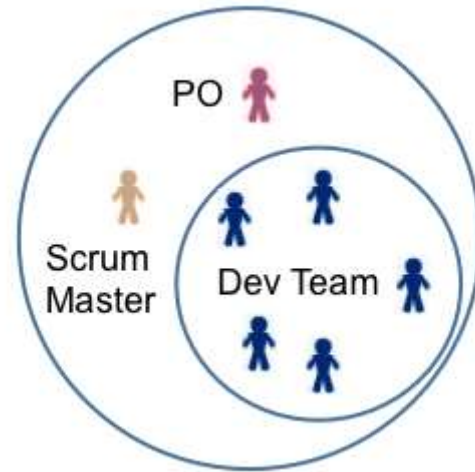
THE PANAMA PAPERS

A man in a dark suit is seen from behind, standing on a boat. He is surrounded by stacks of papers and documents. The sea around him is filled with floating papers, including certificates and banknotes of various colors (red, blue, green, yellow). The background is a hazy, overcast sky.

Politicians, Criminals and the Rogue Industry That Hides Their Cash

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