

Open Data Manchester

Supporting responsible and intelligent data
practice in Greater Manchester and beyond

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DATA FOR JOURNALISTS

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THE PLAN

18.00 Introductions

18.15 What is data?

18.30 Telling Stories With Data

18.45 Introducing data tools

19.00 Exercises

19.45 Wrap up

20.00 Finish

WHAT WE'LL COVER

- What data is
- What to watch out for
- What open data is
- What data is available about us and our communities
- Some really simple tools to access this data

WHAT IS OPEN DATA MANCHESTER?

19
MAY

Saturday, May 19, 2018

Joy Diversion



Hosted by Open Data Manchester
From Open Data Manchester



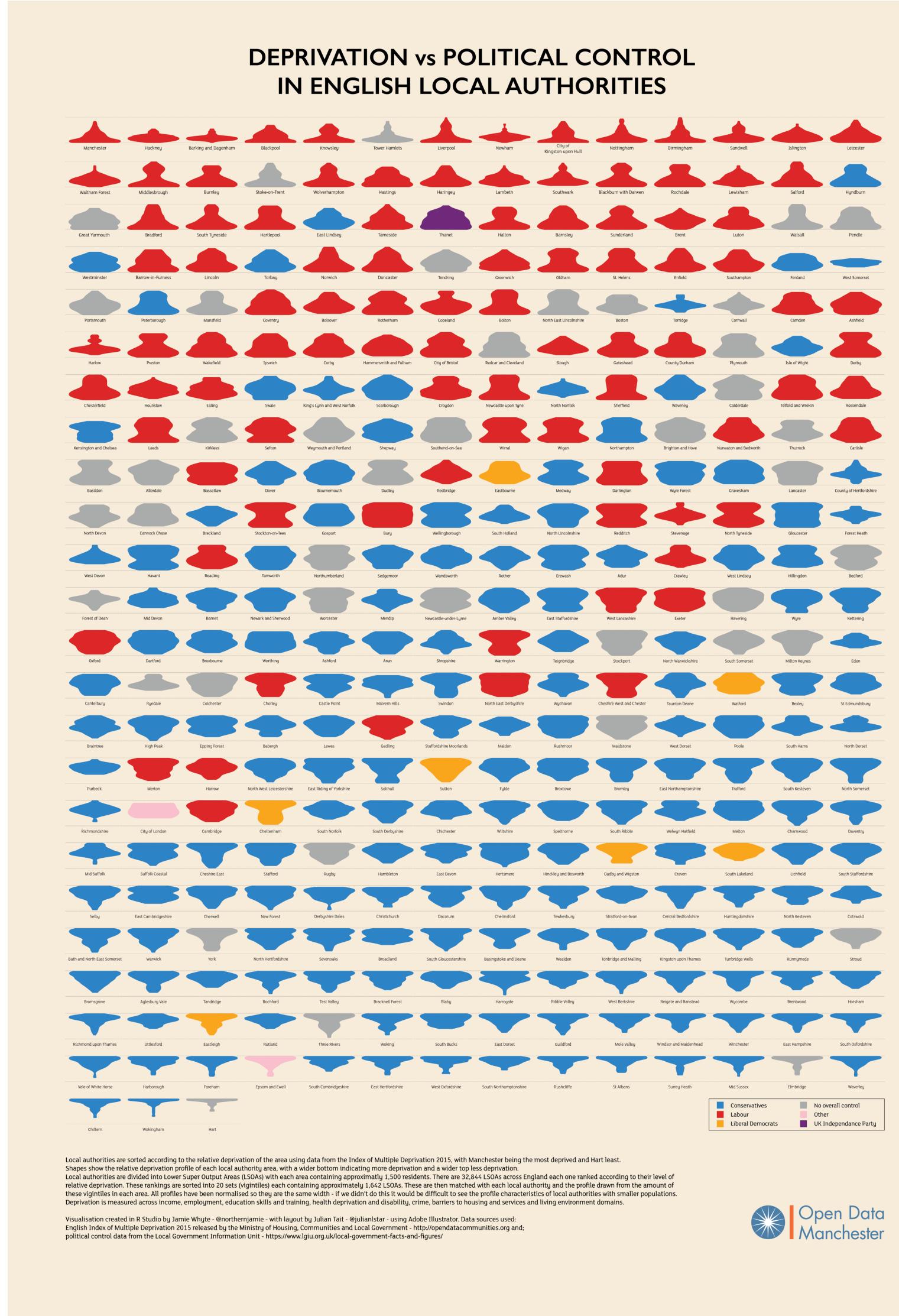
Details

Calling all ramblers, explorers and meanderers. Surveyors, cartographers and inquisitors - people who look up to the rooftops and down into the culverts. Join us for an afternoon of mapping, exploring and wandering in Central Manchester and Salford.

@opendatamcr | @milsomsam

- ▶ Established in 2010 we are an independent Community Interest Company (CIC)
- ▶ Advocate for appropriate local, national government data release
- ▶ Run workshops, training, events and research
- ▶ Highlight state of the art practice
- ▶ Develop initiatives looking at new ways of working with data
- ▶ Promote organisations doing good work with data both government, business and communities

WHAT IS OPEN DATA MANCHESTER?



We also work with

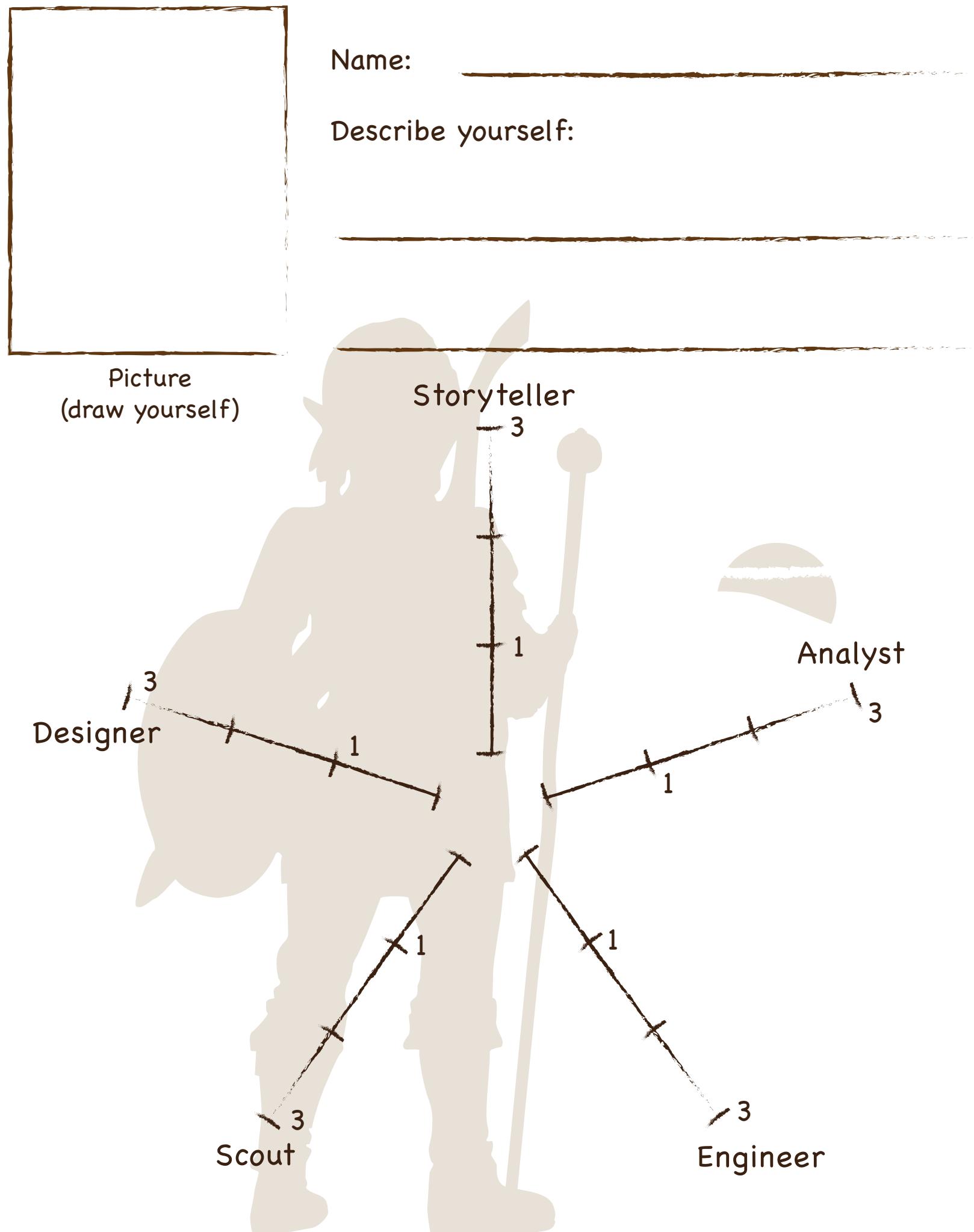
- Data standards
 - OCDS (Open Contracting Data Standard)
 - 360 Giving (Standard for the release of grant and philanthropic funding)
- Data governance
 - Data rights and representation (Data cooperatives as personal data stores)
 - Declaration for Responsible and Intelligent Data Practice
- Internet of Things
 - Building and supporting open infrastructure (Things North)
- Innovation projects
 - Pollution mapping



DATA EXPLORER

Data Explorer

Character sheet

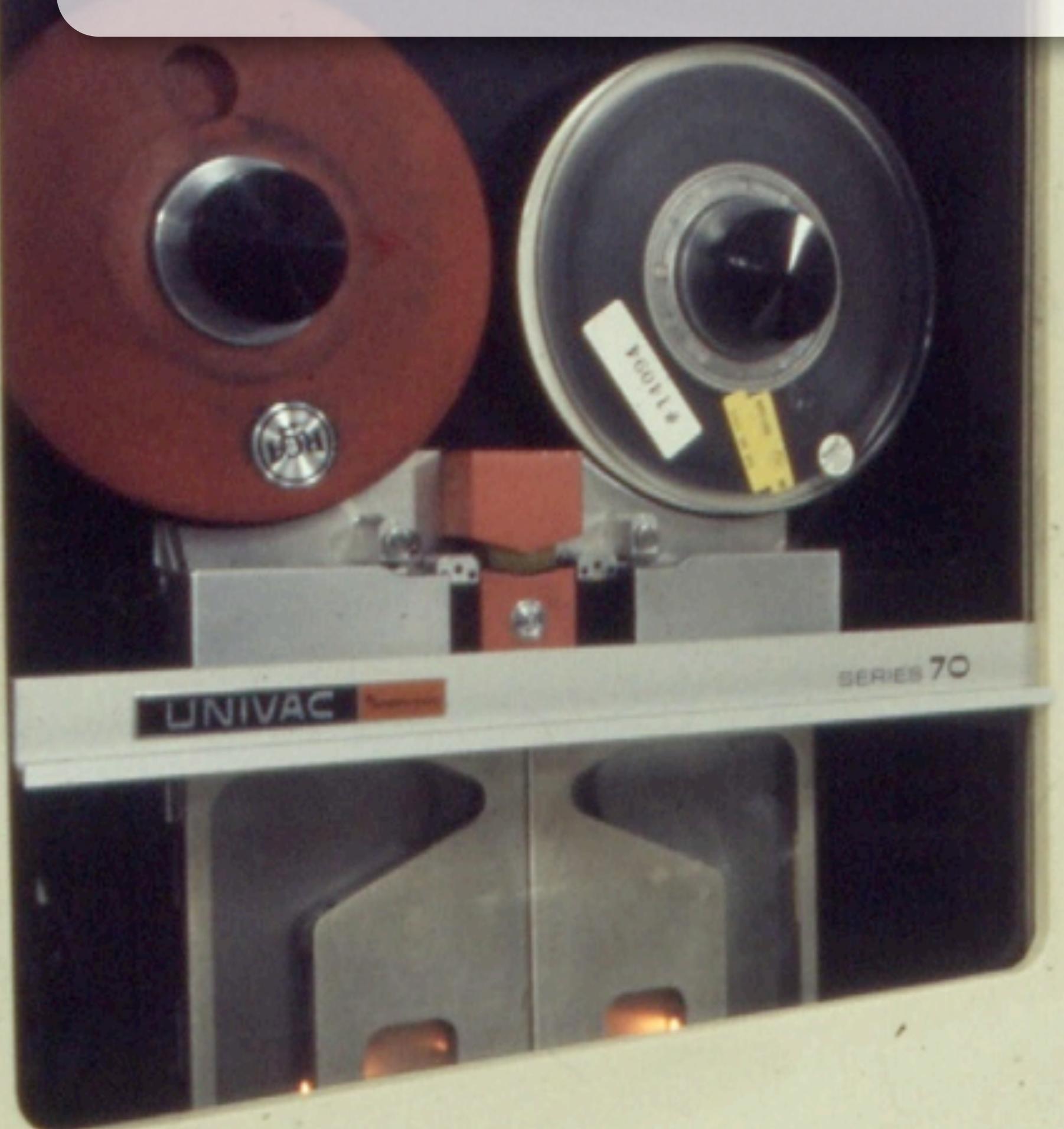


@opendatamcr | @milsomsam

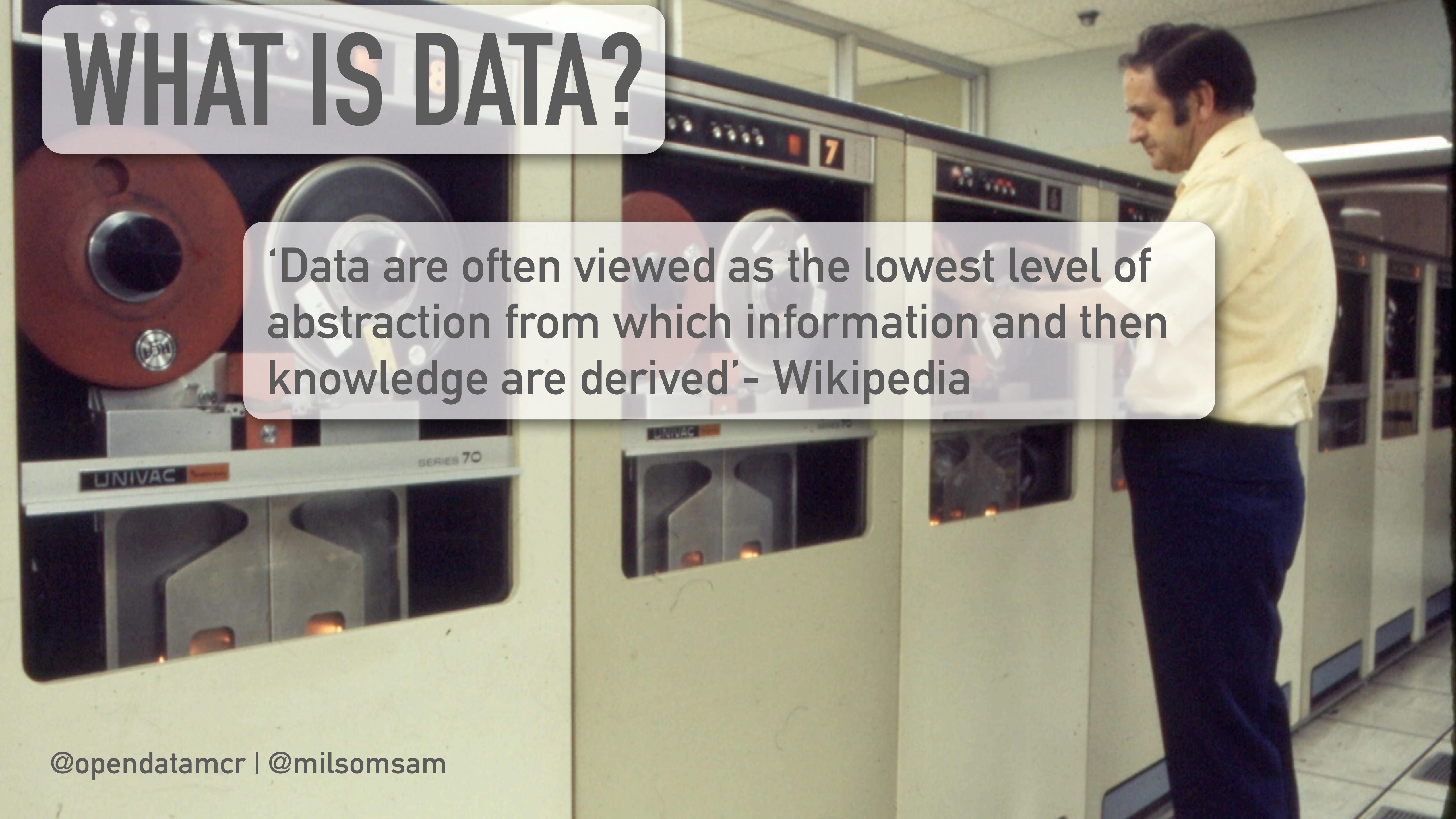
MATHS QUESTION

A bat and ball cost £1.10 and the bat costs £1 more than the ball
What is the cost of the bat and what is the cost of the ball?

WHAT IS DATA?

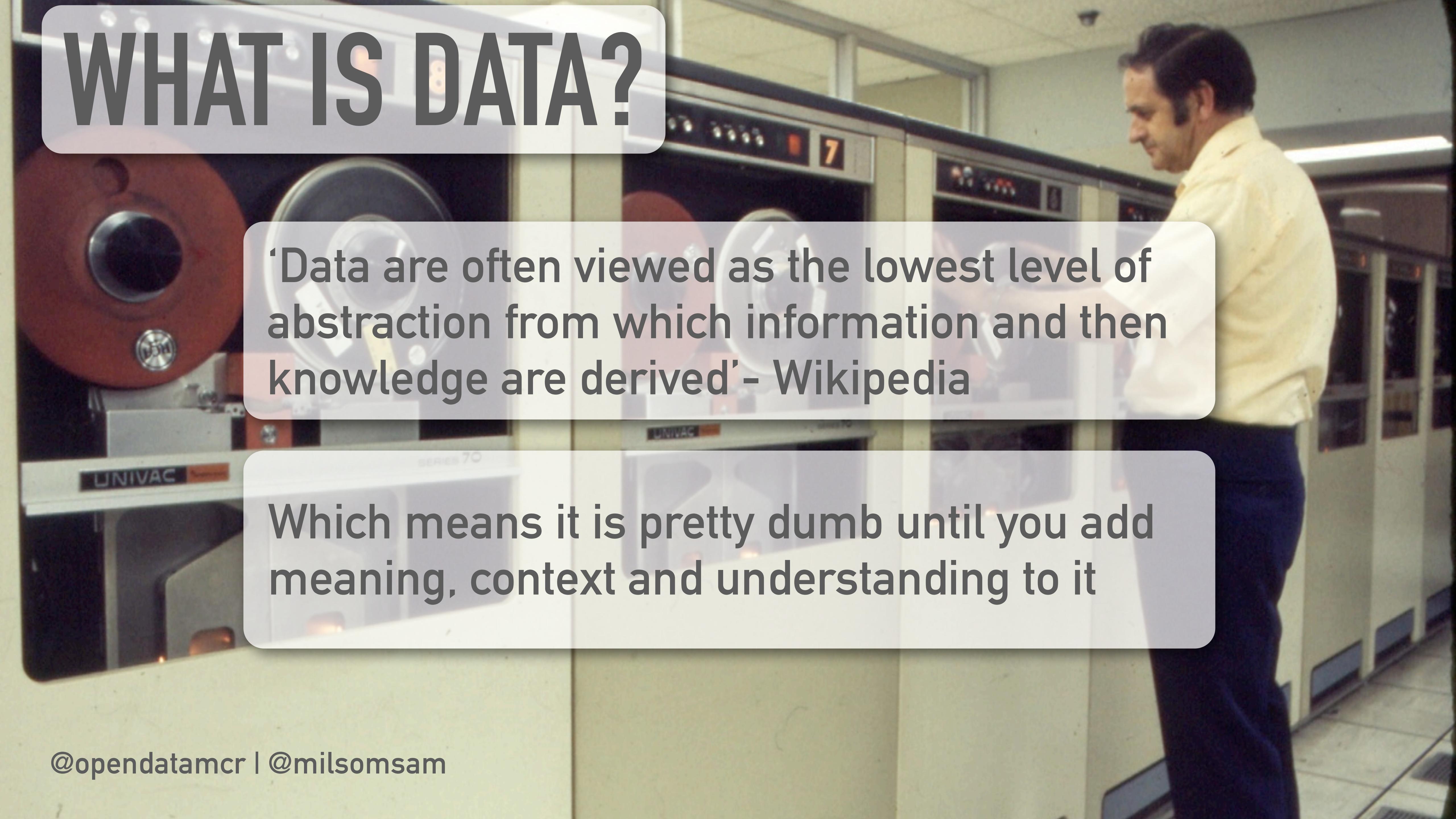


WHAT IS DATA?

A vintage photograph showing a man in a light-colored shirt and dark trousers standing next to a large, beige mainframe computer. The machine has several circular disk drives mounted on its front panel, with the brand name "UNIVAC" and "SERIES 70" visible. The man appears to be interacting with the control panel, which features numerous buttons and indicator lights. The setting looks like a technical or industrial environment from the mid-20th century.

'Data are often viewed as the lowest level of abstraction from which information and then knowledge are derived'- Wikipedia

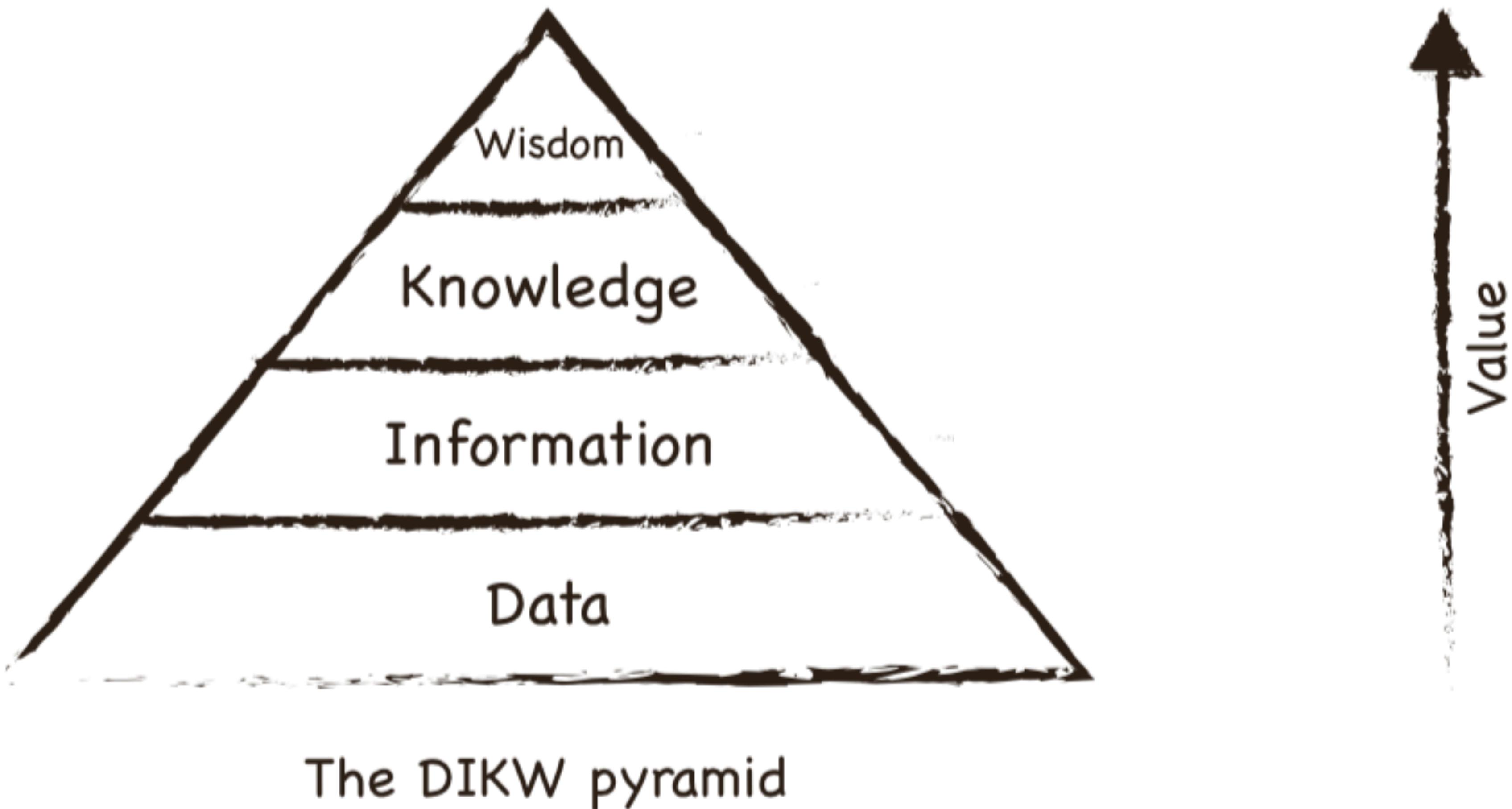
WHAT IS DATA?



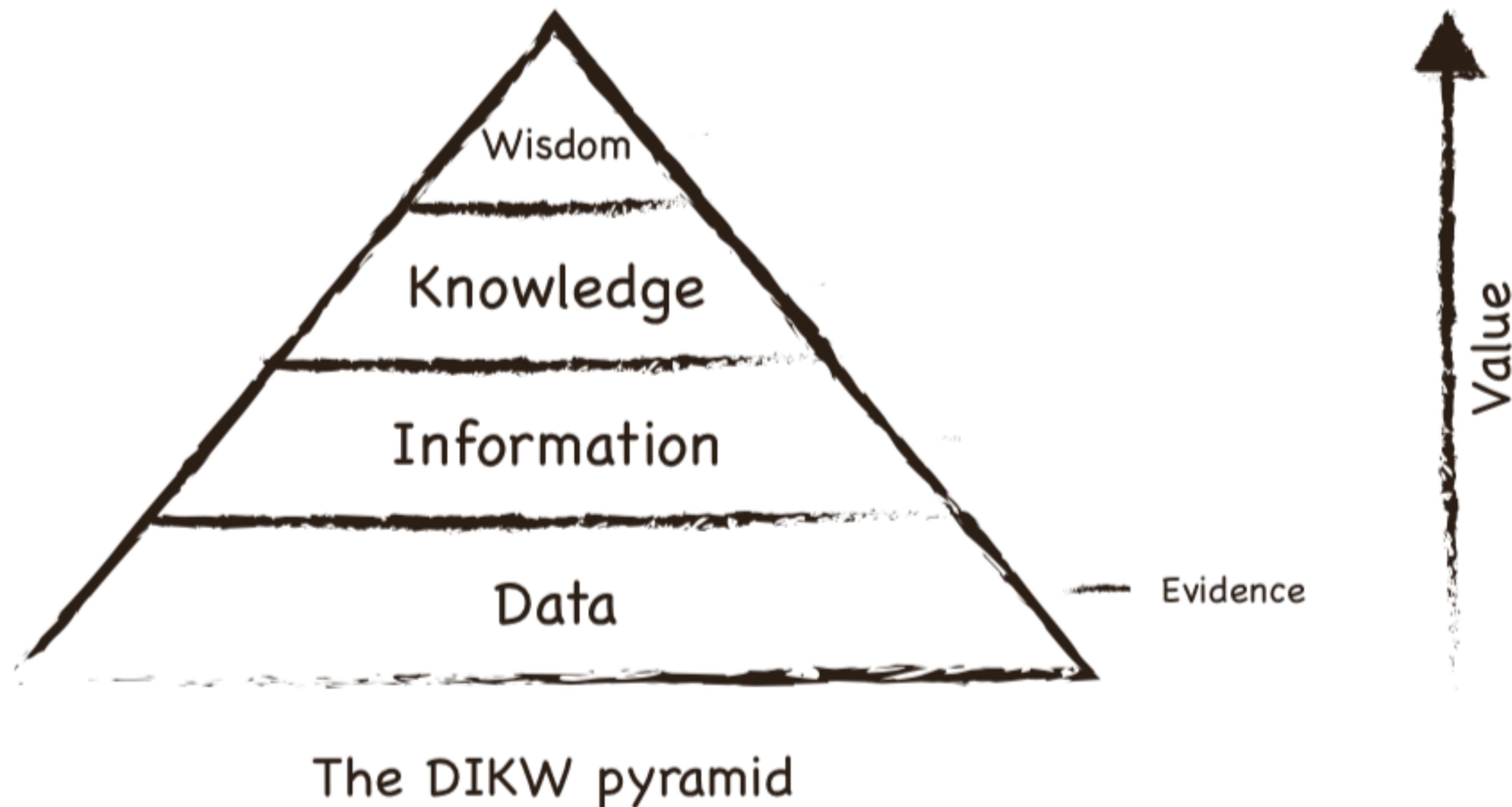
'Data are often viewed as the lowest level of abstraction from which information and then knowledge are derived'- Wikipedia

Which means it is pretty dumb until you add meaning, context and understanding to it

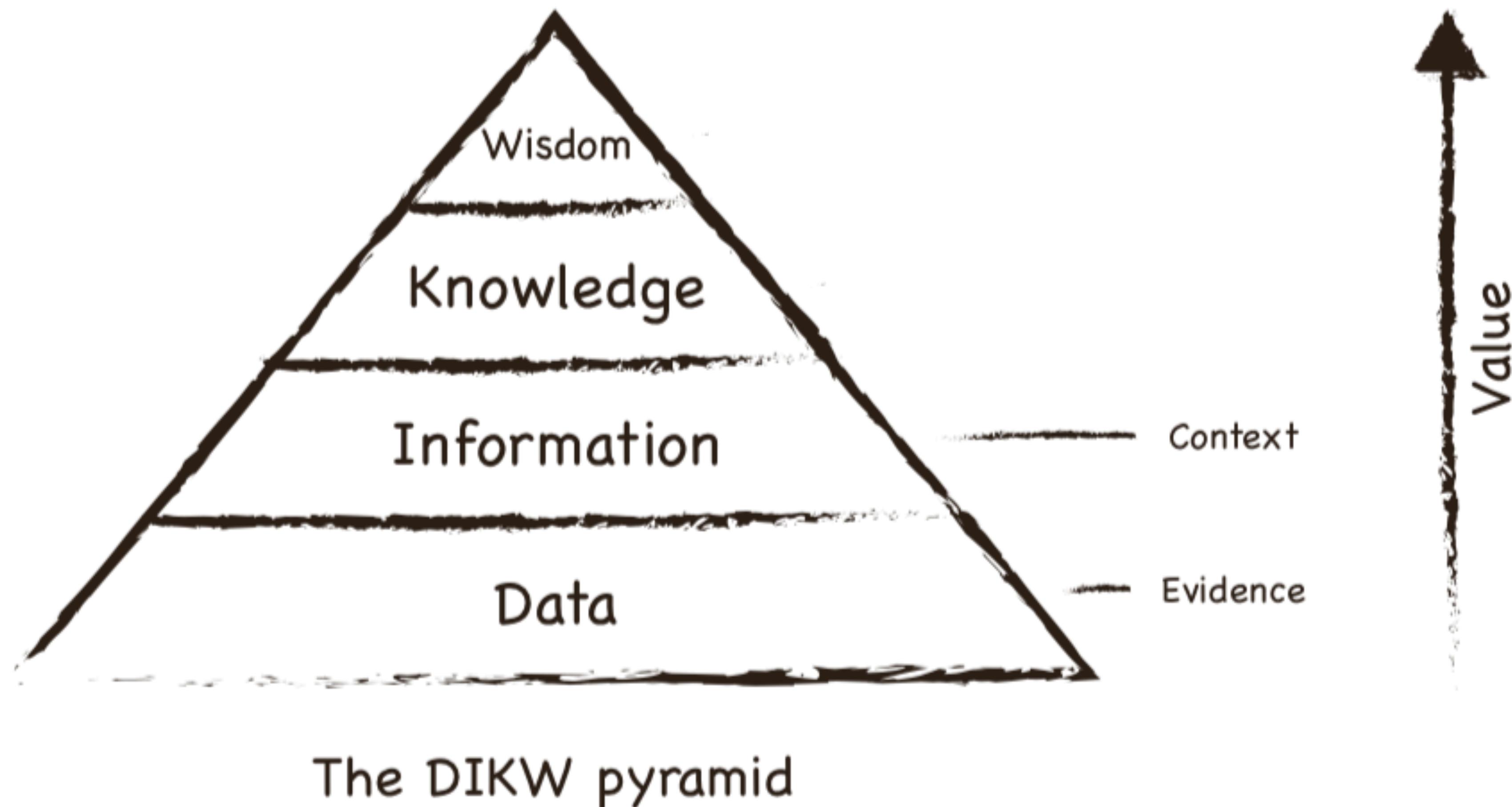
WHAT IS DATA?



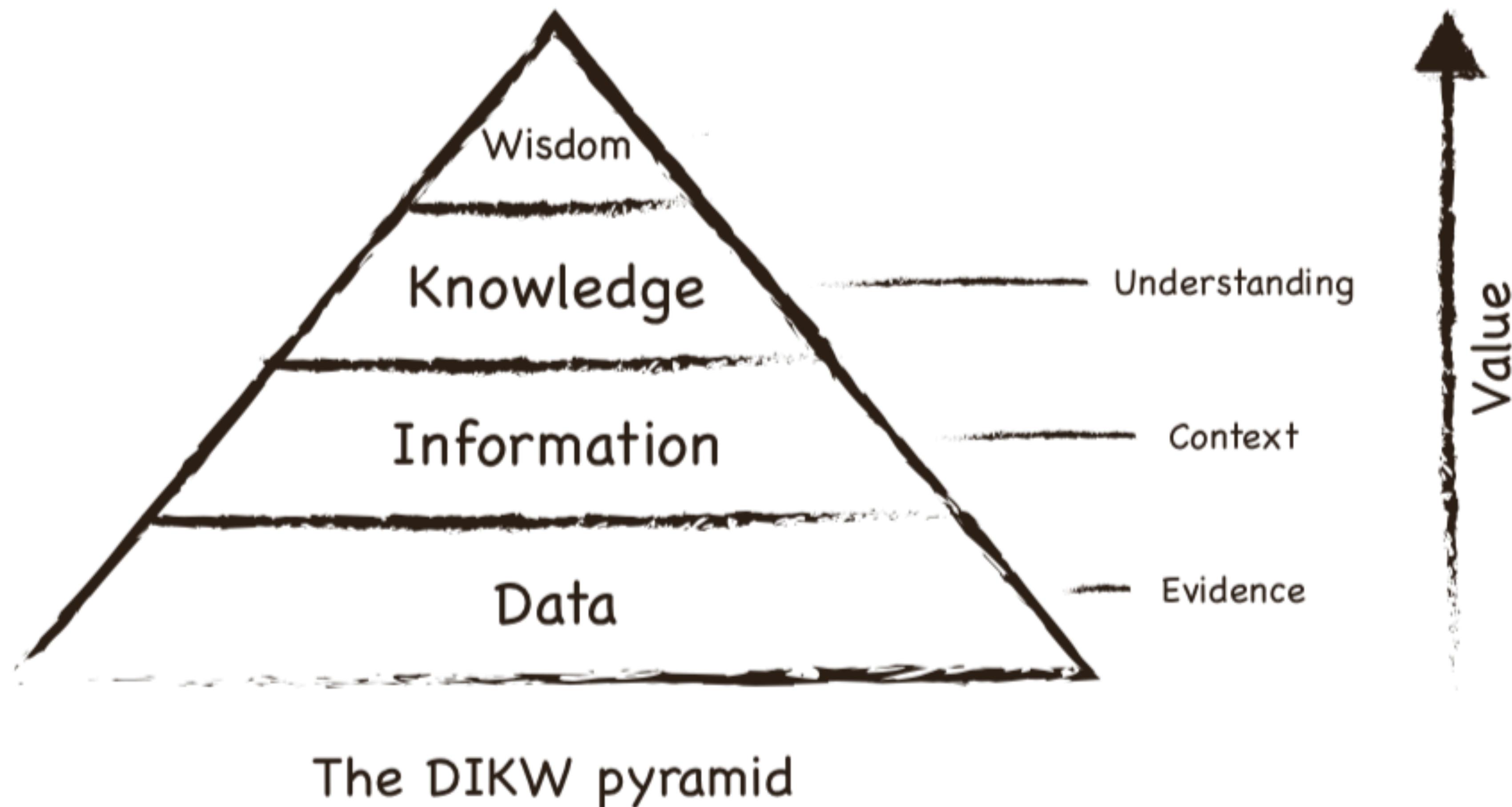
WHAT IS DATA?



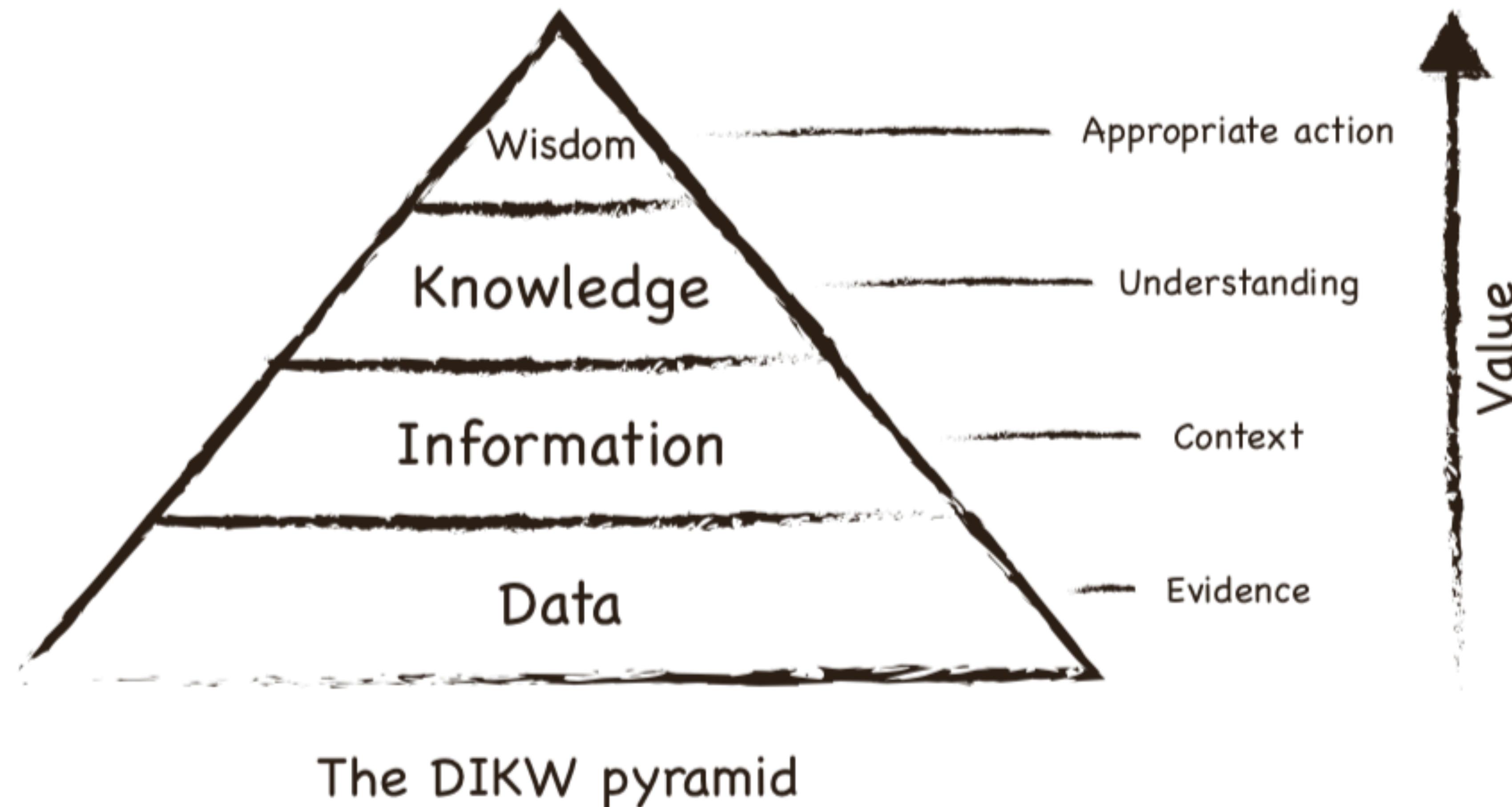
WHAT IS DATA?



WHAT IS DATA?



WHAT IS DATA?





DANGER

EMERGENCY DESTRUCTION SYSTEM

ON ACTIVATION SHIP WILL DETONATE IN T MINUS 10 MINUTES

FAILSAFE WARNING

CUT-OFF SYSTEM WILL NOT OPERATE AFTER T MINUS 5 MINUTES

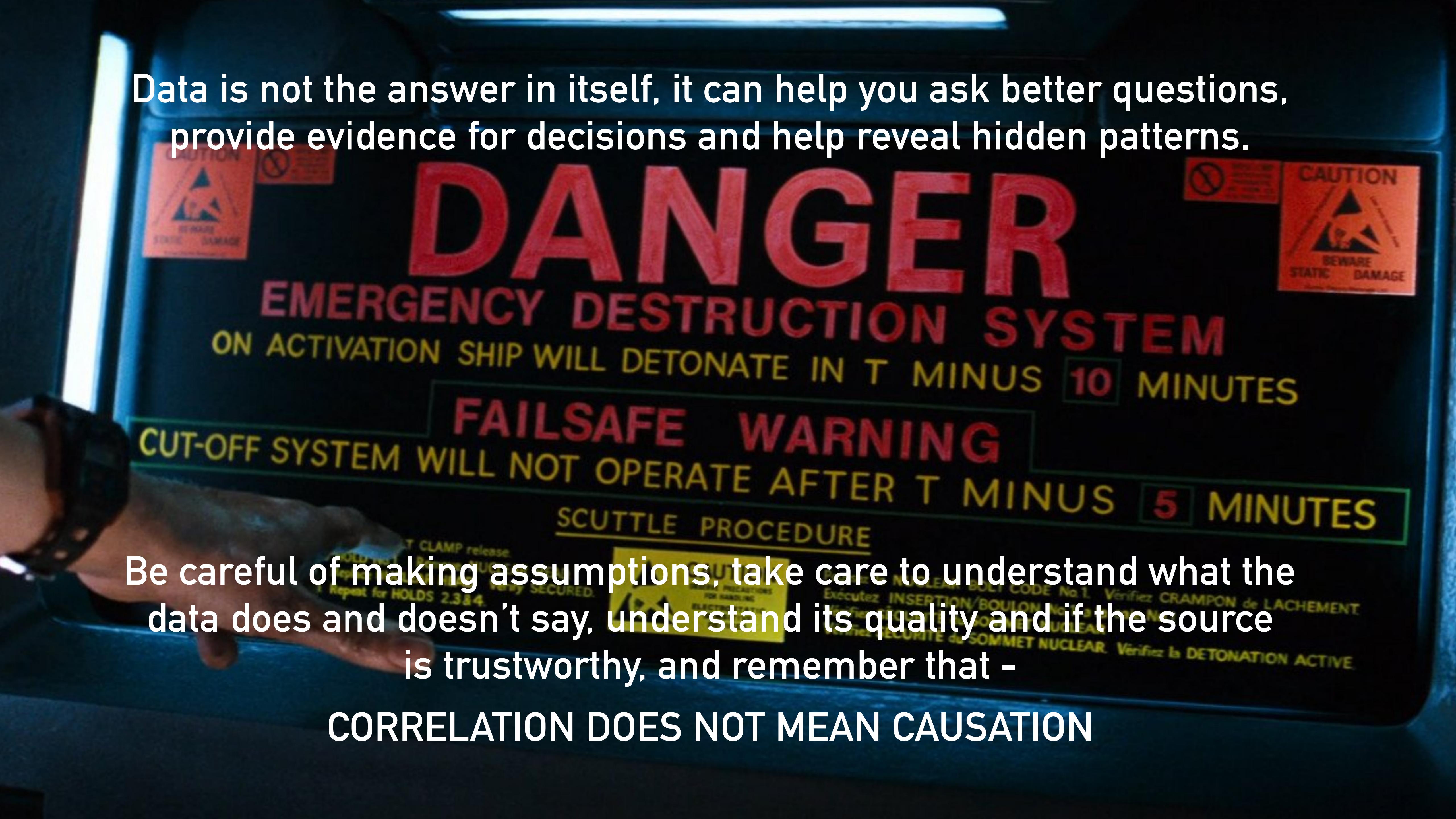
SCUTTLE PROCEDURE

CLAMP release.
HOLD No.1. Remove NUCLEAR HEAD.
Replace NUCLEAR HEAD Verify SECURED.
Repeat for HOLDS 2,3 & 4.



Poussez le NUCLEAR BOLT CODE No.1. Vérifiez CRAMpon de LACHEMENT.
Exécutez INSERTION/BOULON No.1 à la cale No.1
Vérifiez SÉCURITÉ du SOMMET NUCLEAR
Vérifiez SÉCURITÉ du SOMMET NUCLEAR. Vérifiez la DETONATION ACTIVE.

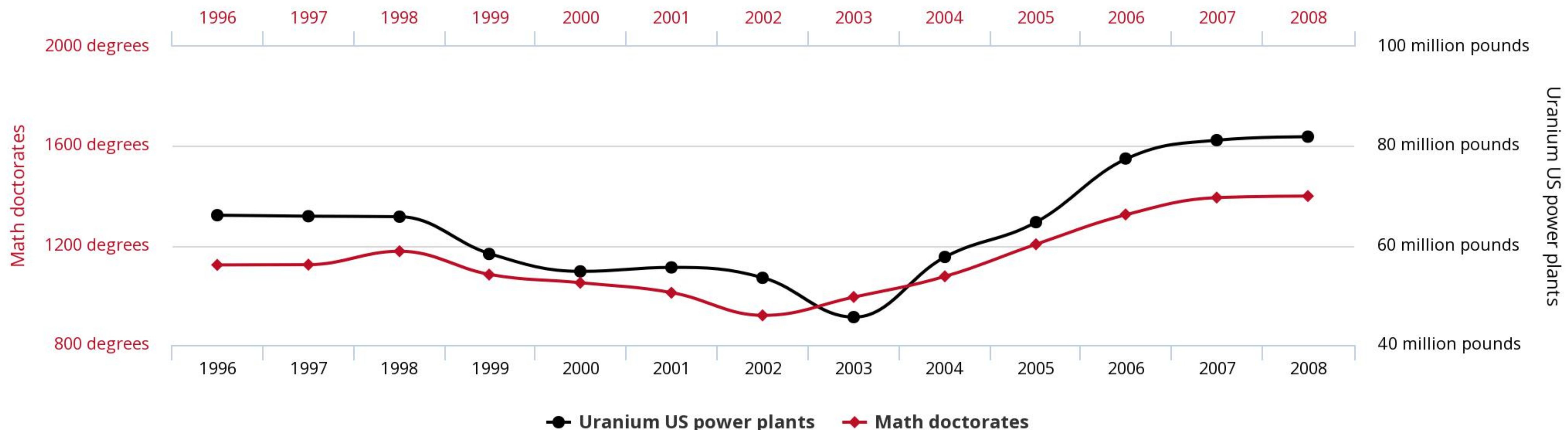
Data is not the answer in itself, it can help you ask better questions, provide evidence for decisions and help reveal hidden patterns.



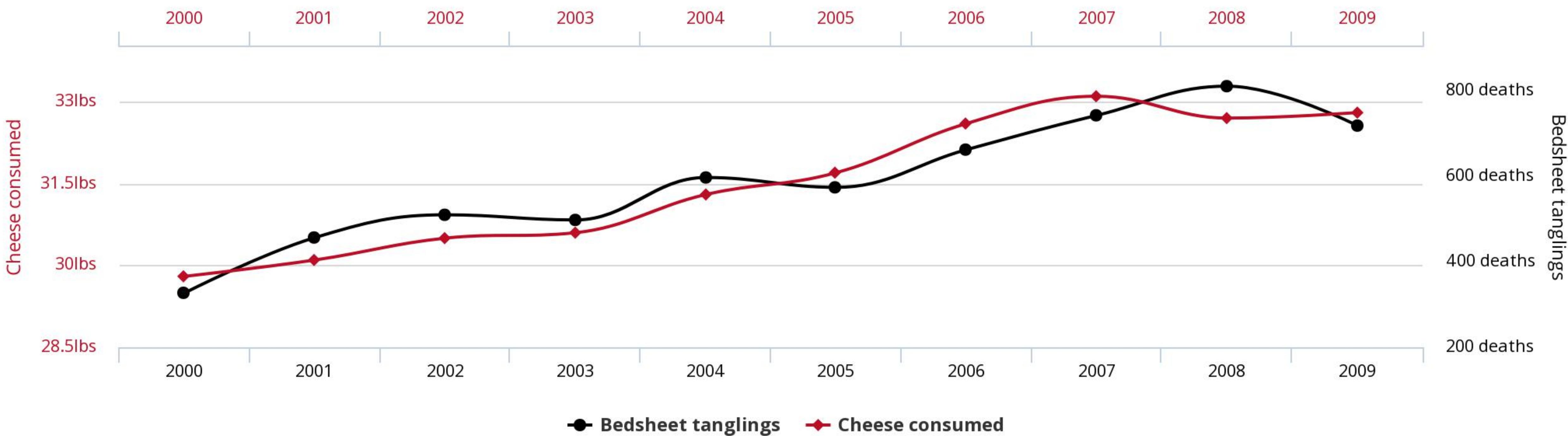
Be careful of making assumptions, take care to understand what the data does and doesn't say, understand its quality and if the source is trustworthy, and remember that -

CORRELATION DOES NOT MEAN CAUSATION

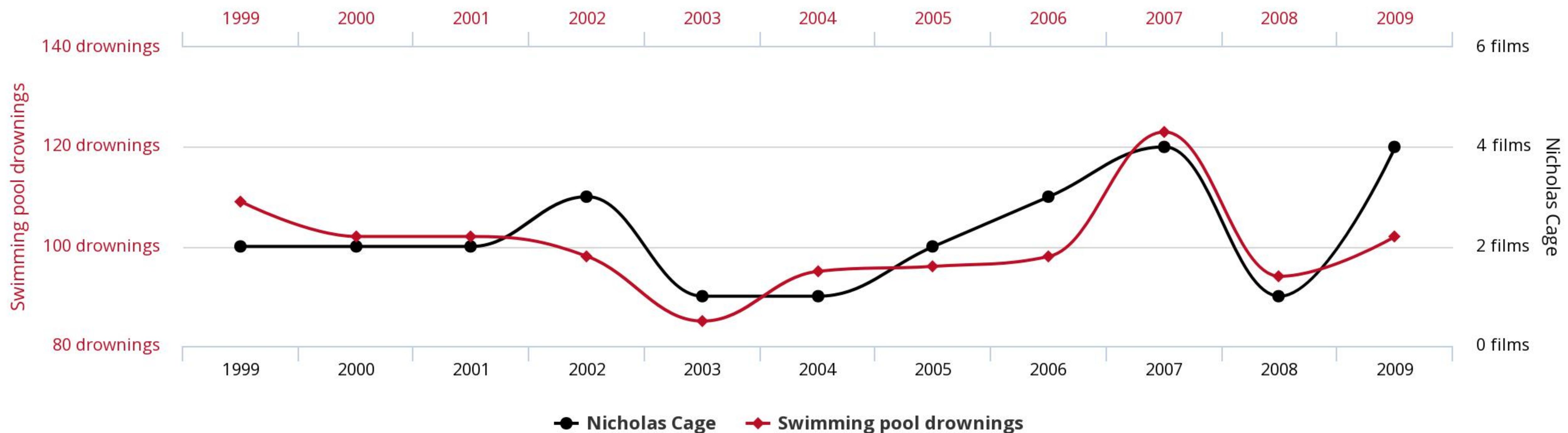
Math doctorates awarded
correlates with
Uranium stored at US nuclear power plants



Per capita cheese consumption
correlates with
Number of people who died by becoming tangled in their bedsheets



Number of people who drowned by falling into a pool correlates with Films Nicolas Cage appeared in





AP/Madison McVeigh/CityLab

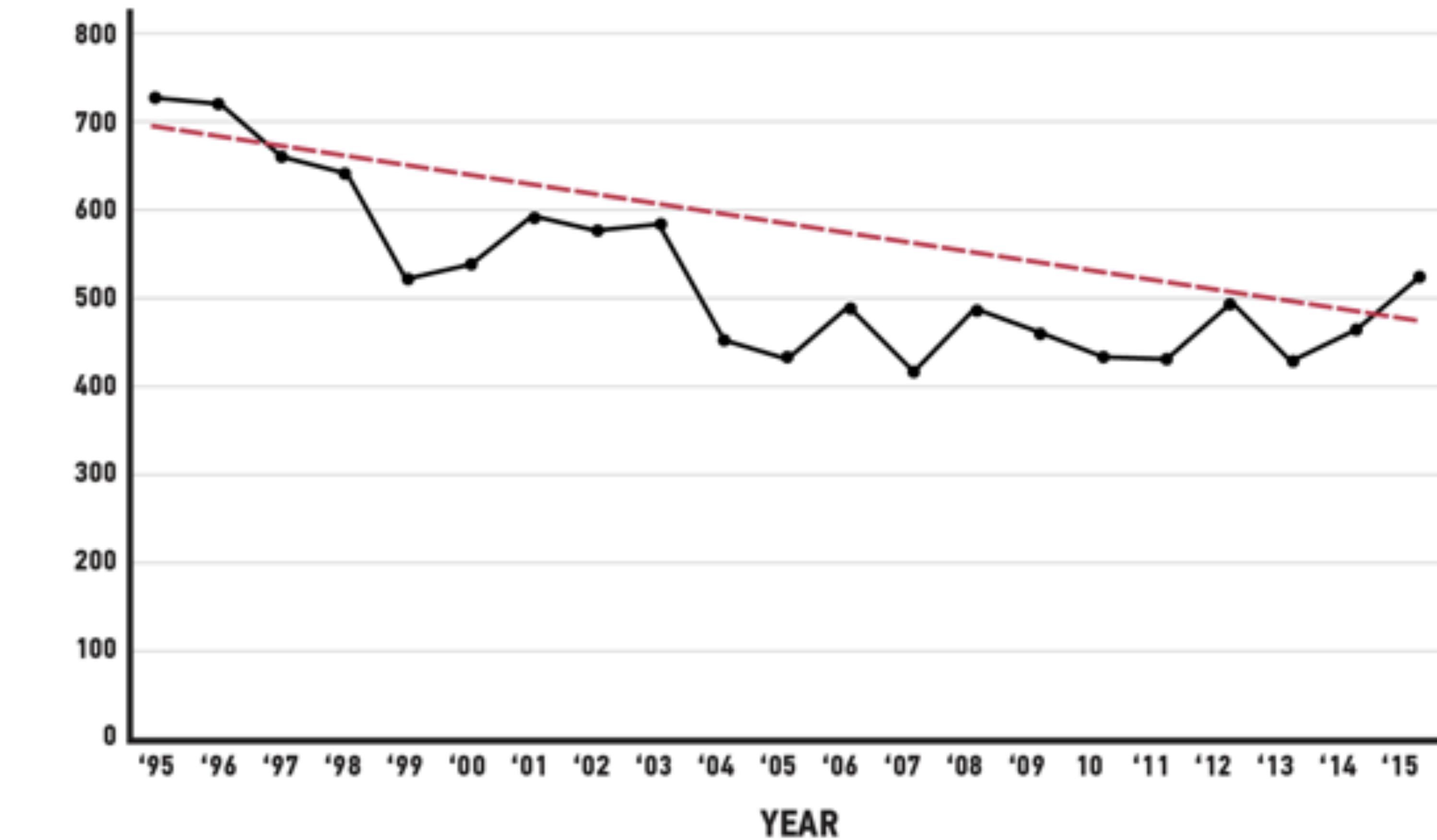
The Bleeding of Chicago

ERIC FERKENHOFF / DARNELL LITTLE FEBRUARY 24, 2018

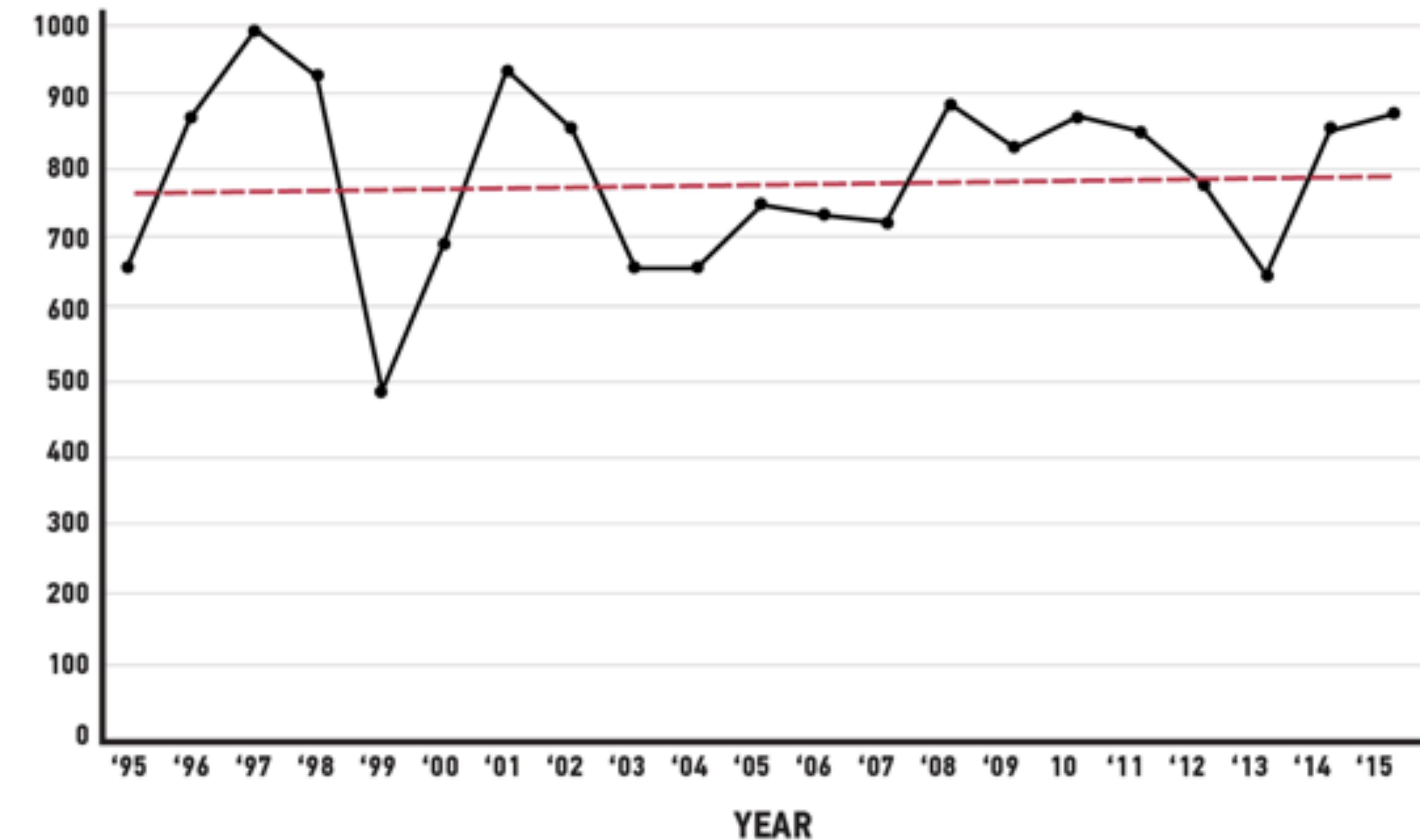
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America's third-largest city has built one of the world's best trauma care systems. But that success might be obscuring the true scale of its own

Homicides Involving Firearms



Number of Live Inpatient Discharges



WHAT IS OPEN DATA?



WHAT IS OPEN DATA?



Open data is data that can be freely used, re-used and redistributed by anyone –
The Open Data Handbook

WHAT IS OPEN DATA?

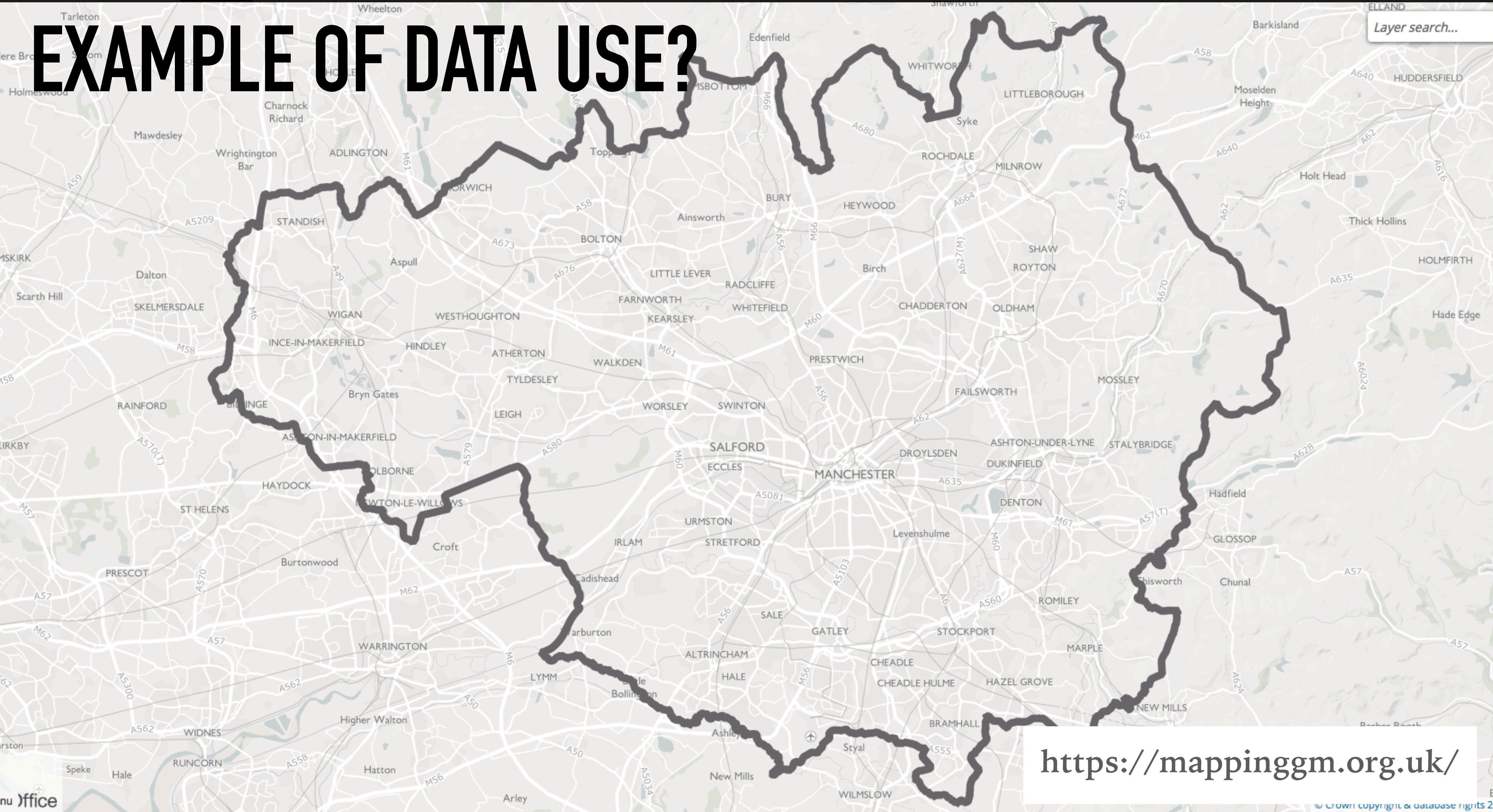


Open data is data that can be freely used, re-used and redistributed by anyone –
The Open Data Handbook

EXAMPLES OF OPEN DATA

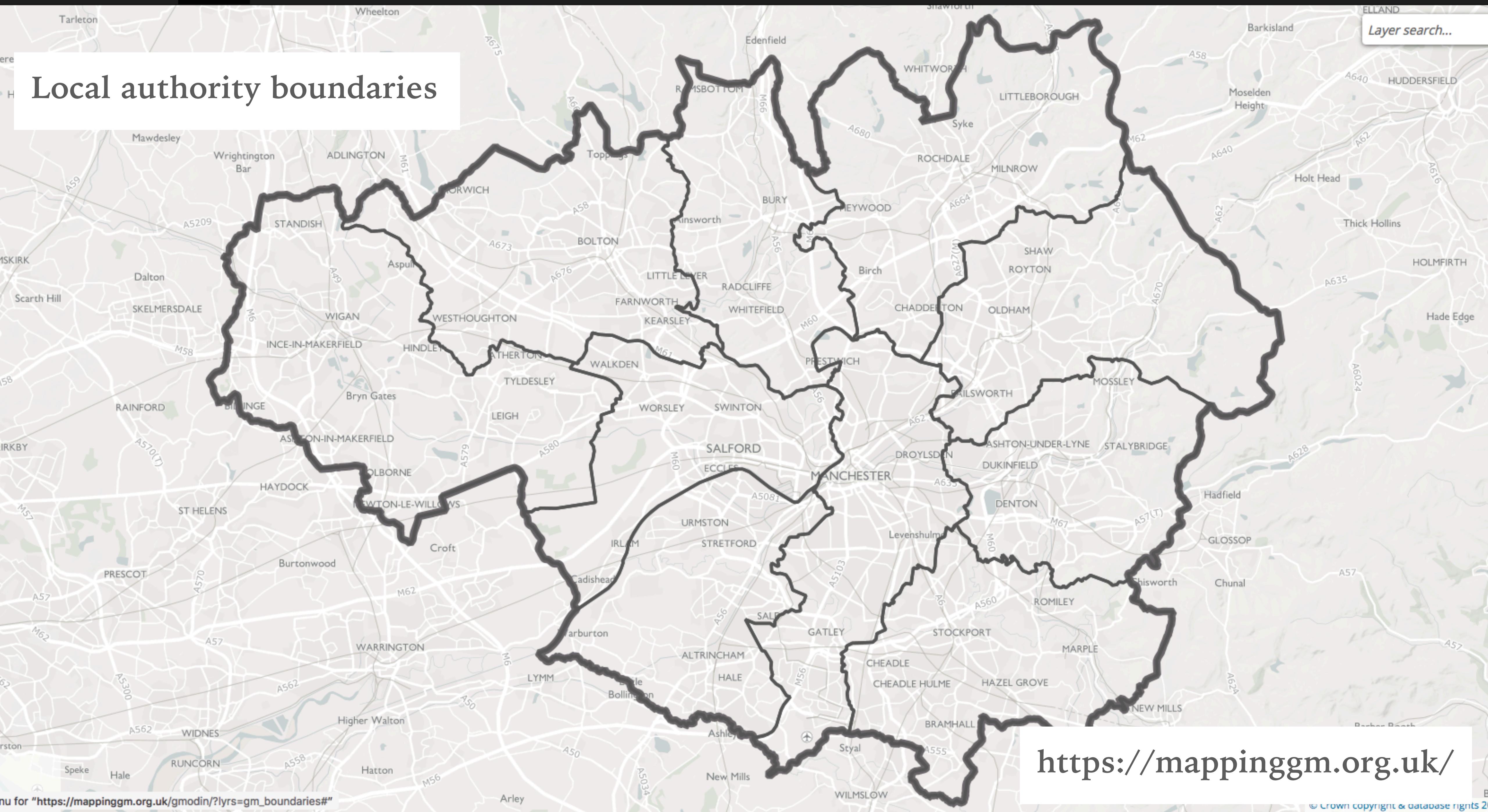
- Business & economy
- Crime and policing statistics
- Education
- Environment
- Government spending
- Health and NHS
- Employment
- Housing and urban planning
- Transport

EXAMPLE OF DATA USE?



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

Local authority boundaries



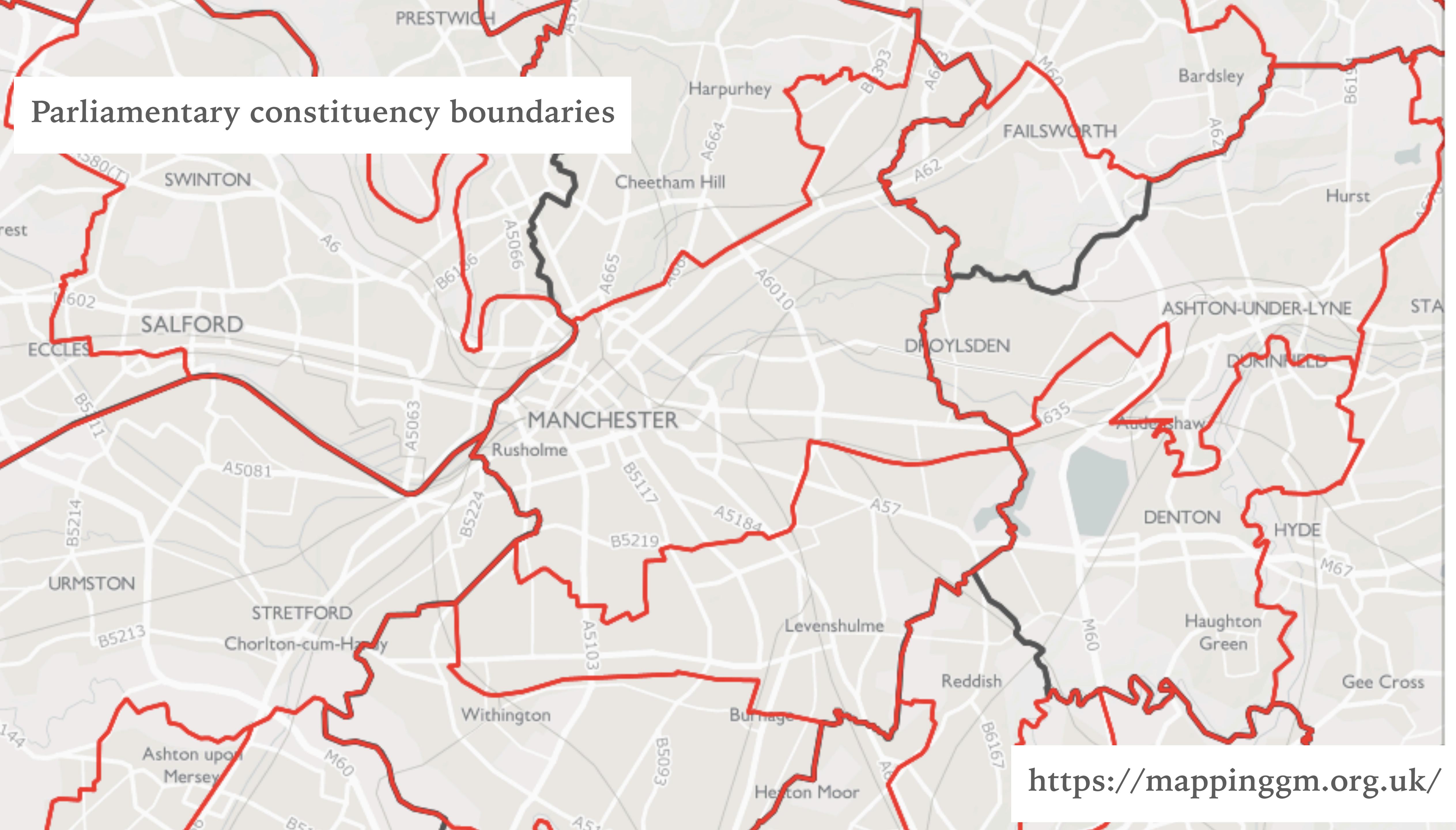
<https://mappinggm.org.uk/>

Parliamentary constituency boundaries



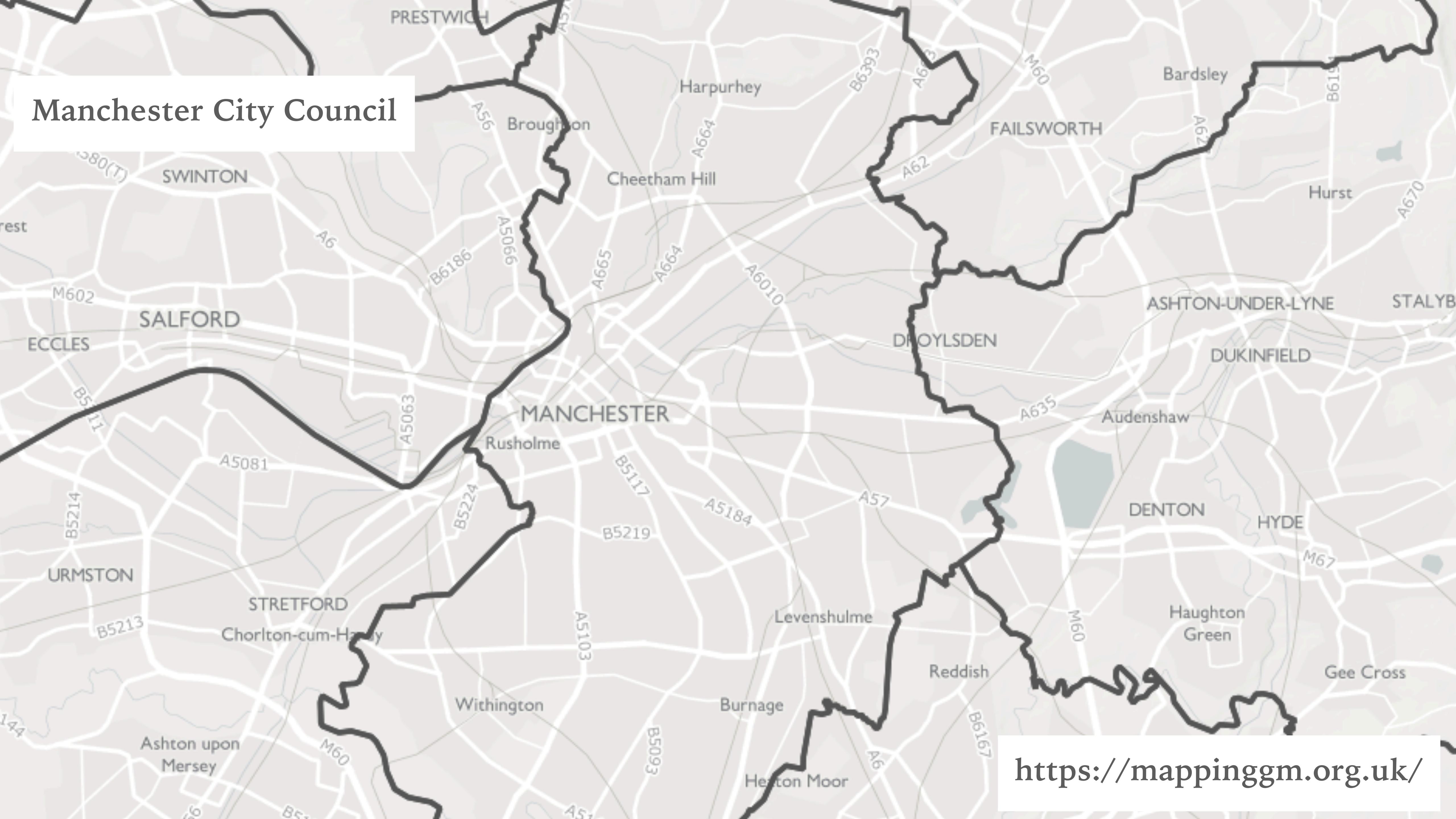
<https://mappinggm.org.uk/>

Parliamentary constituency boundaries



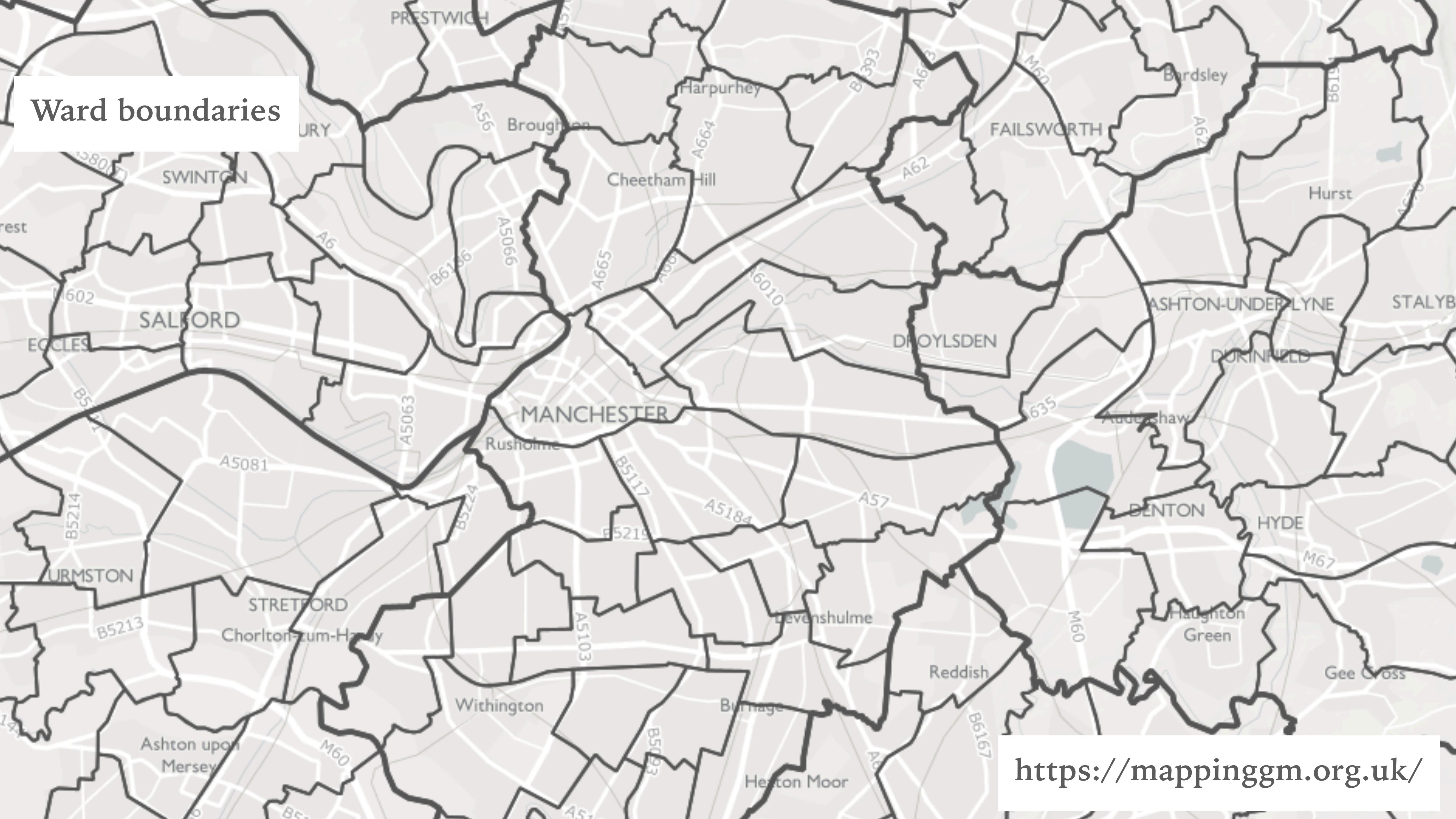
<https://mappinggm.org.uk/>

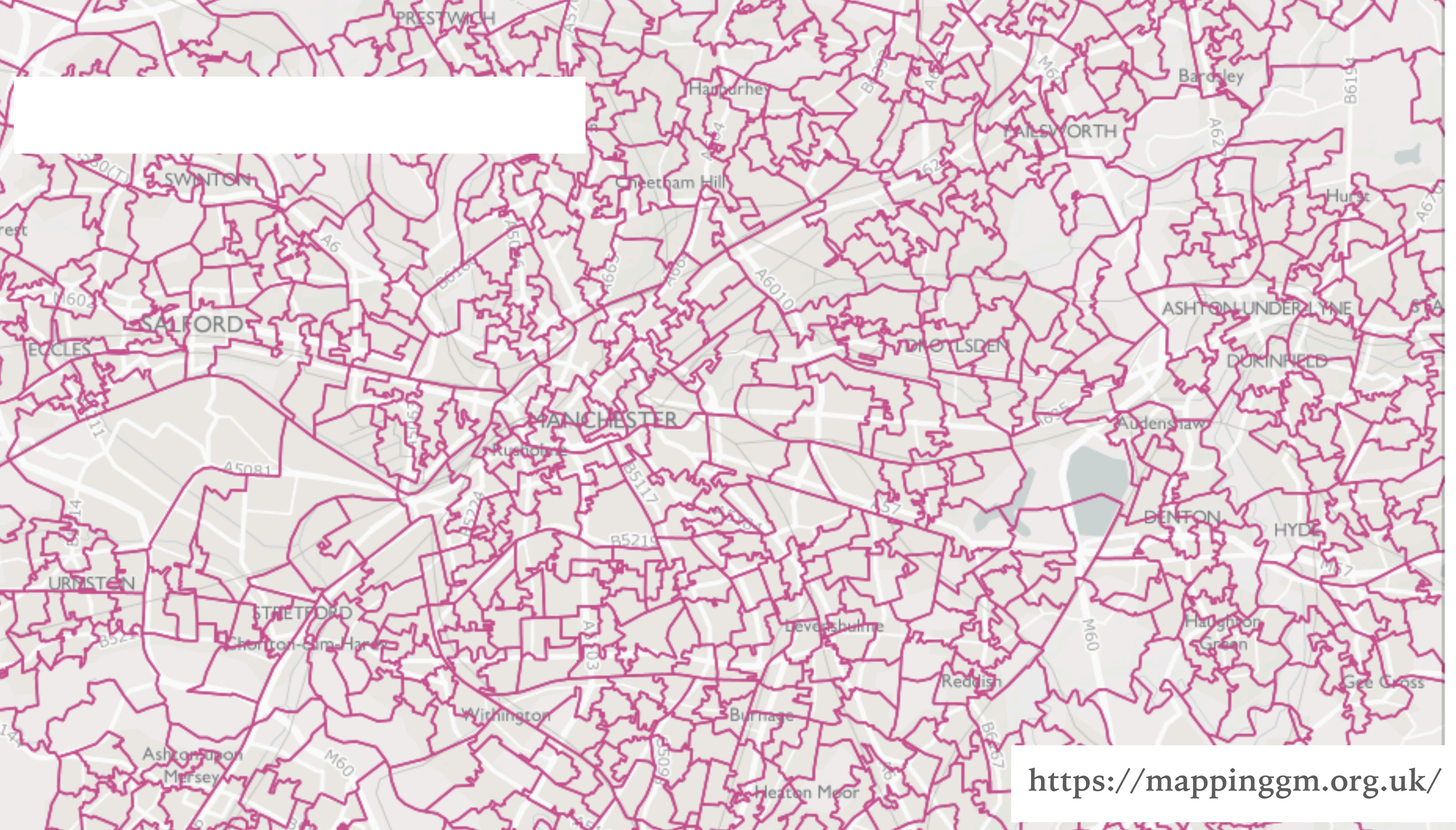
Manchester City Council



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

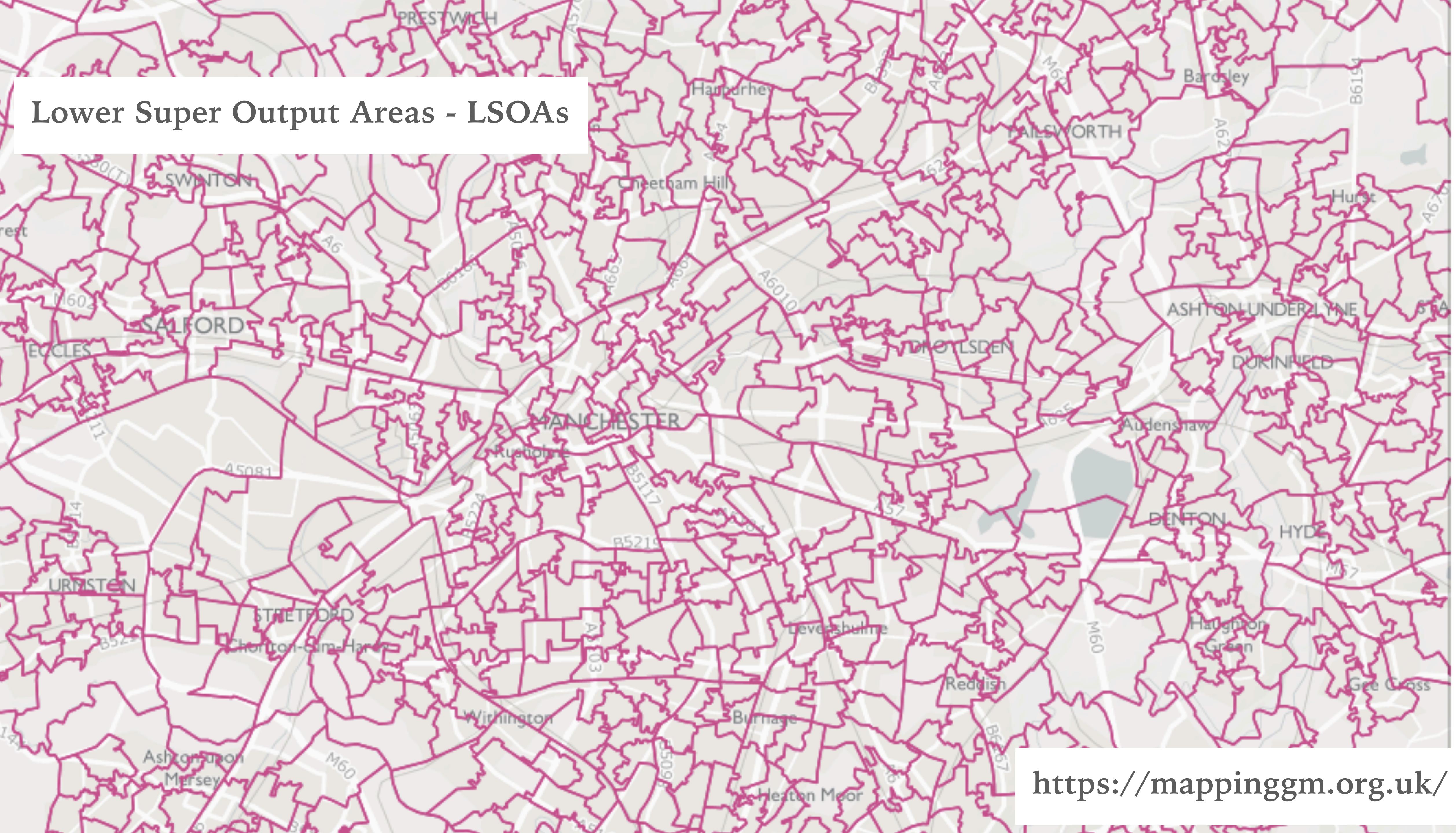
Ward boundaries



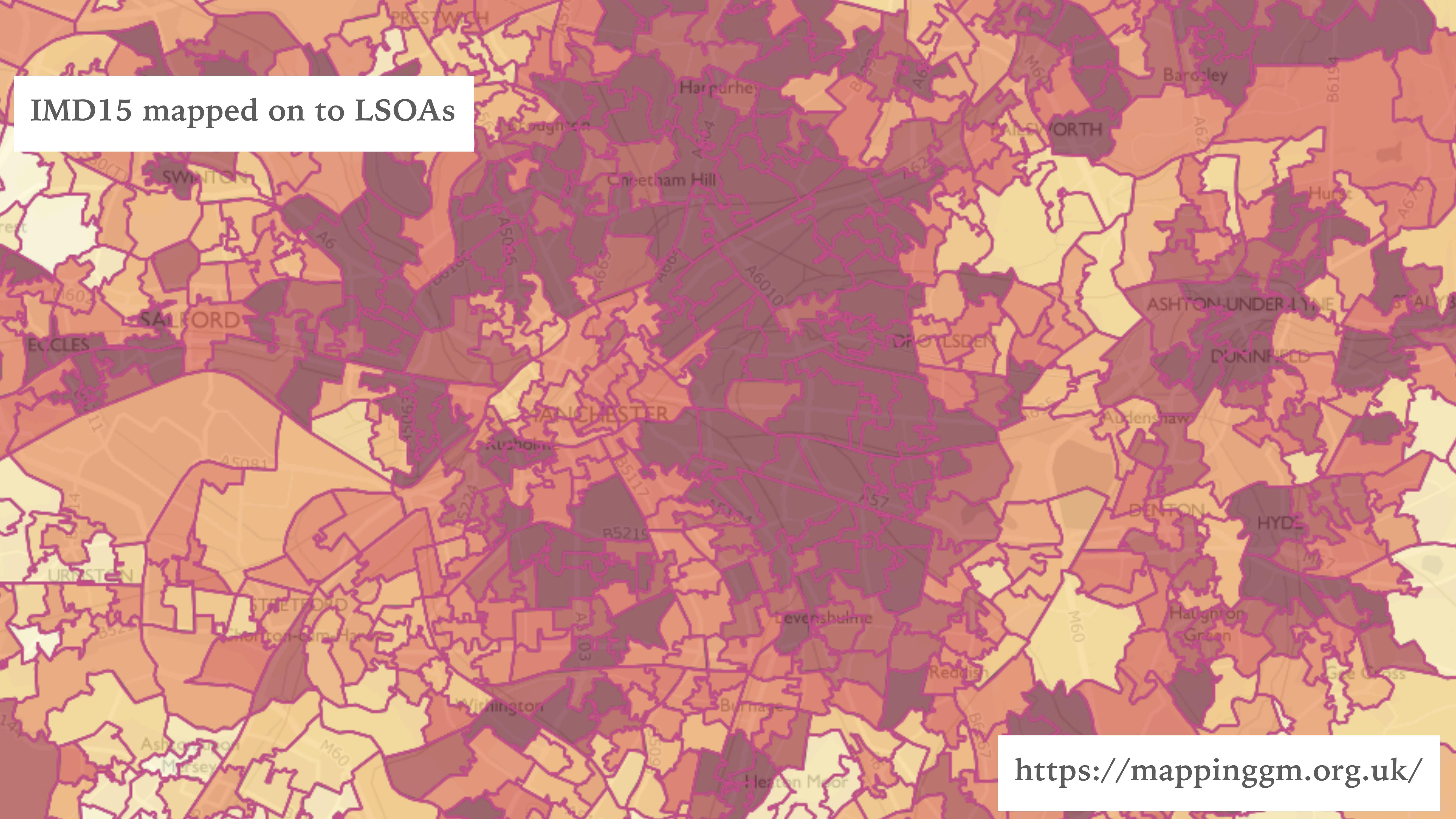


<https://mappinggm.org.uk/>

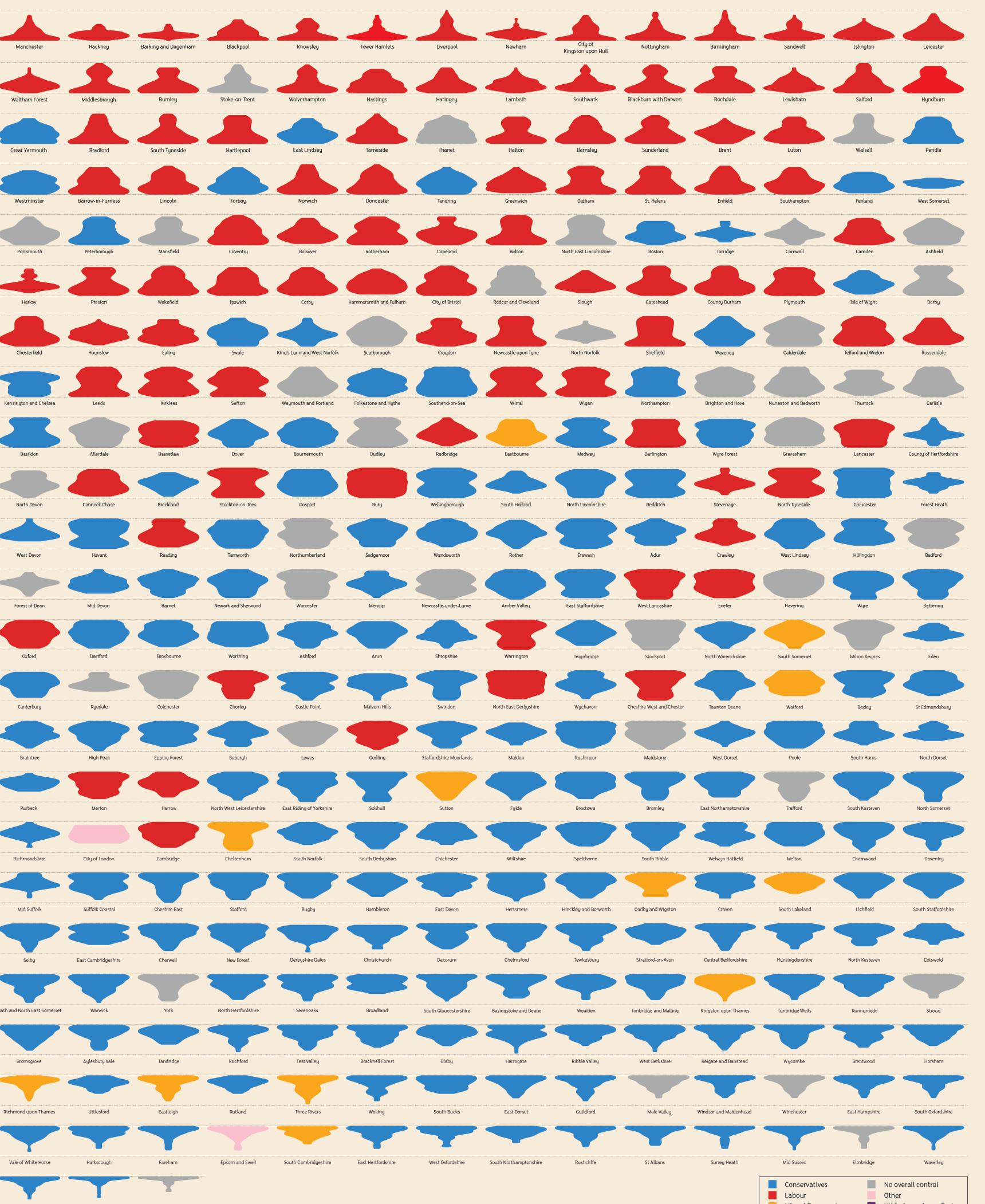
Lower Super Output Areas - LSOAs



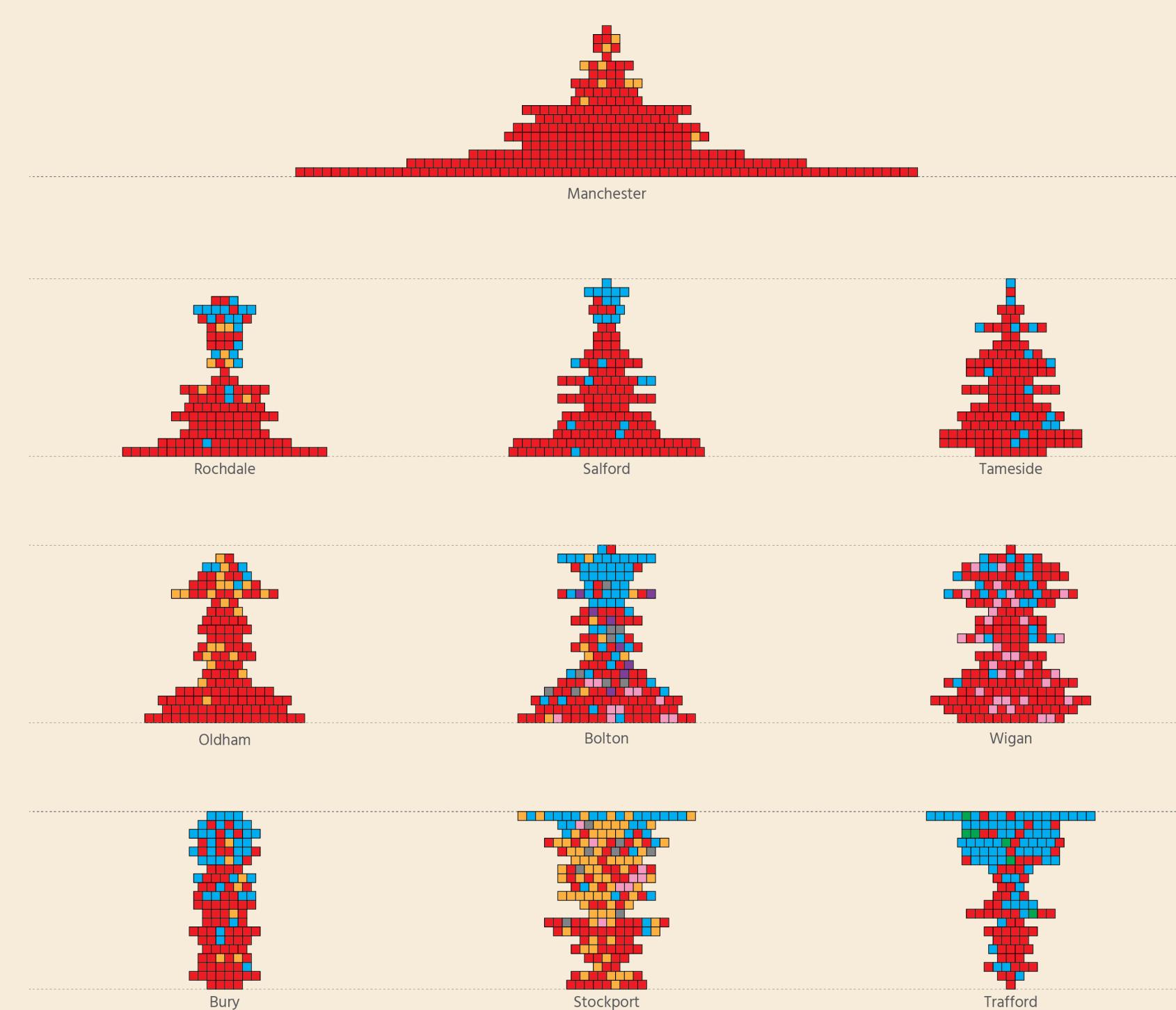
IMD15 mapped on to LSOAs



DEPRIVATION vs POLITICAL CONTROL IN ENGLISH LOCAL AUTHORITIES (2018)



DEPRIVATION vs POLITICAL REPRESENTATION IN GREATER MANCHESTER (SEPT 18)



Visualisation showing deprivation mapped to political representation.

Authorities sorted according to the relative deprivation of the area using data from the Index of Multiple Deprivation 2015, with Manchester being the most deprived and Trafford least.

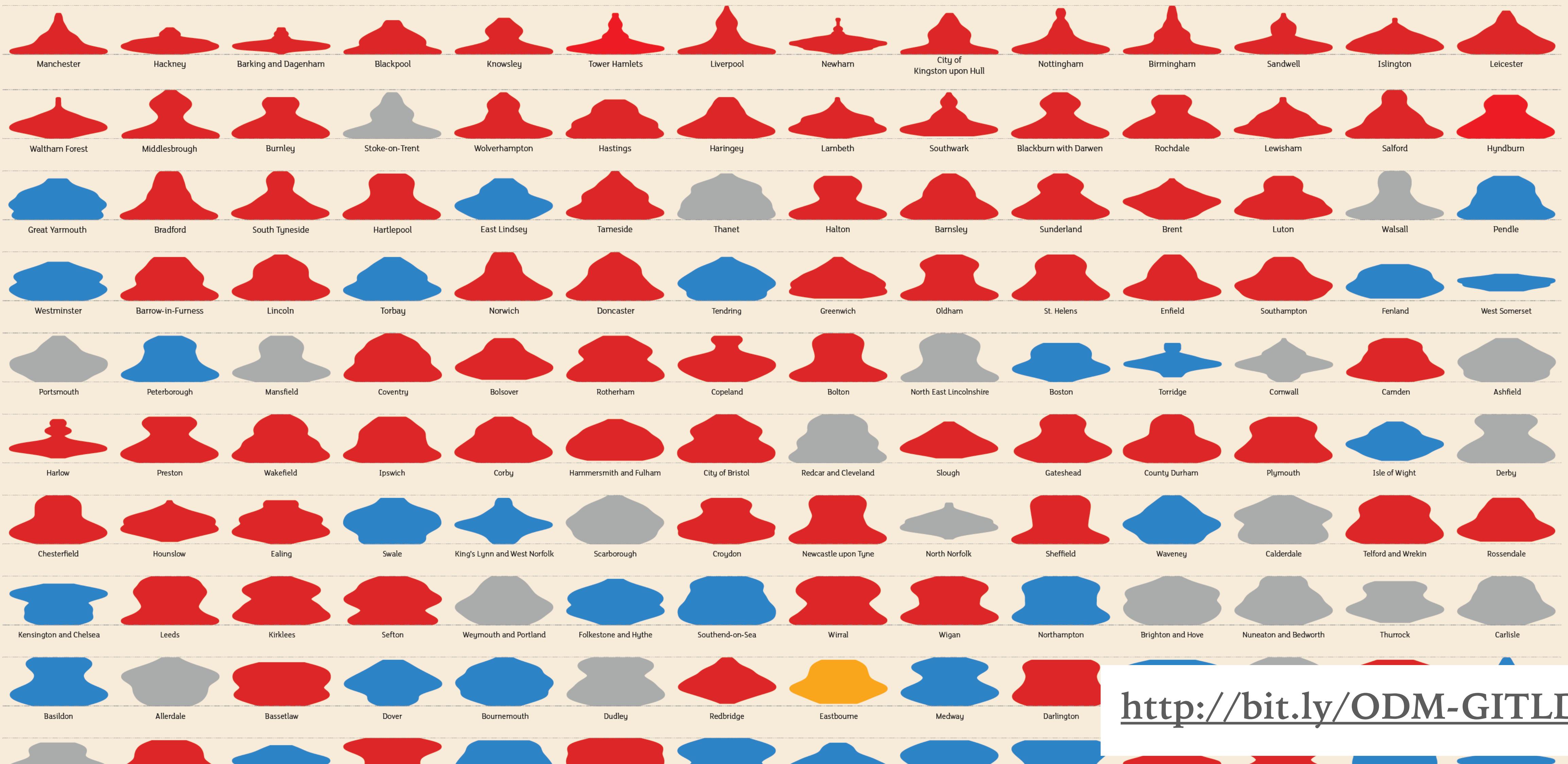
Shapes show the relative deprivation profile of each local authority area with a wider bottom indicating more deprivation and a wider top less deprivation. Local authorities are divided into Lower Super Output Areas (LSOAs) each area containing approximately 1,500 residents. There are 32,844 LSOAs across England each one ranked according to their level of relative deprivation. These rankings are sorted into 20 sets (vertical scale) each containing approximately 1,642 LSOAs - each square represents 1 LSOA. These are then matched with the councillor representation of the ward that the LSOA is within. Deprivation is measured across income, employment, education skills and training, health deprivation and disability, crime, barriers to housing and services and living environment domains. A square at the bottom of the visualisation would be in the 5% most deprived LSOAs in England, whereas a square at the top would be in the 5% least deprived LSOAs.

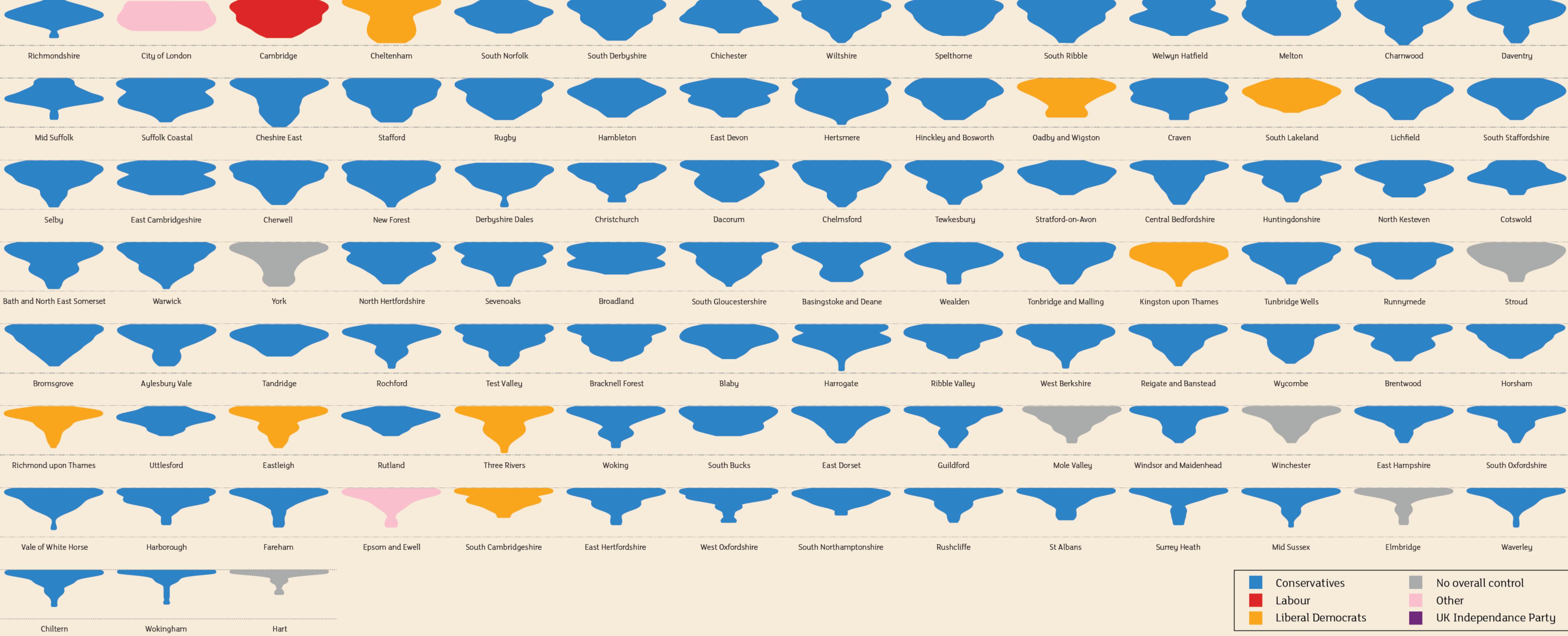
Data

Ministry of Housing, Communities and Local Government - <http://opendatacommunities.org> and the Local Government Information Unit - <https://www.lgionline.gov.uk/local-government/>
Office for National Statistics - LSOA 2011 to Ward to Local Authority District 2014
Local authority websites

<http://bit.ly/ODM-GITLD2>

DEPRIVATION vs POLITICAL CONTROL IN ENGLISH LOCAL AUTHORITIES (2018)





Local authorities are sorted according to the relative deprivation of the area using data from the Index of Multiple Deprivation 2015, with Manchester being the most deprived and Hart least.

Shapes show the relative deprivation profile of each local authority area, with a wider bottom indicating more deprivation and a wider top less deprivation.

Local authorities are divided into Lower Super Output Areas (LSOAs) with each area containing approximately 1,500 residents. There are 32,844 LSOAs across England each one ranked according to their level of relative deprivation. These rankings are sorted into 20 sets (vigintiles) each containing approximately 1,642 LSOAs. These are then matched with each local authority and the profile drawn from the amount of these vigintiles in each area. All profiles have been normalised so they are the same width - if we didn't do this it would be difficult to see the profile characteristics of local authorities with smaller populations. Deprivation is measured across income, employment, education skills and training, health deprivation and disability, crime, barriers to housing and services and living environment domains.

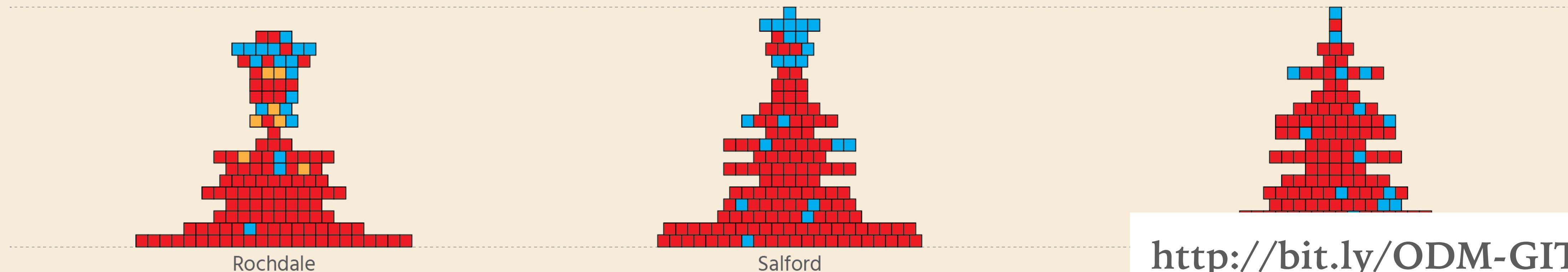
Visualisation created in R Studio by Jamie Whyte - @northernjamie - with layout by Julian Tait - @julianlstar - using Adobe Illustrator. Data sources used:

English Index of Multiple Deprivation 2015 released by the Ministry of Housing, Communities and Local Government - <http://opendatacommunities.org> and; political control data from Open Council Data - <http://opencouncildata.co.uk/>

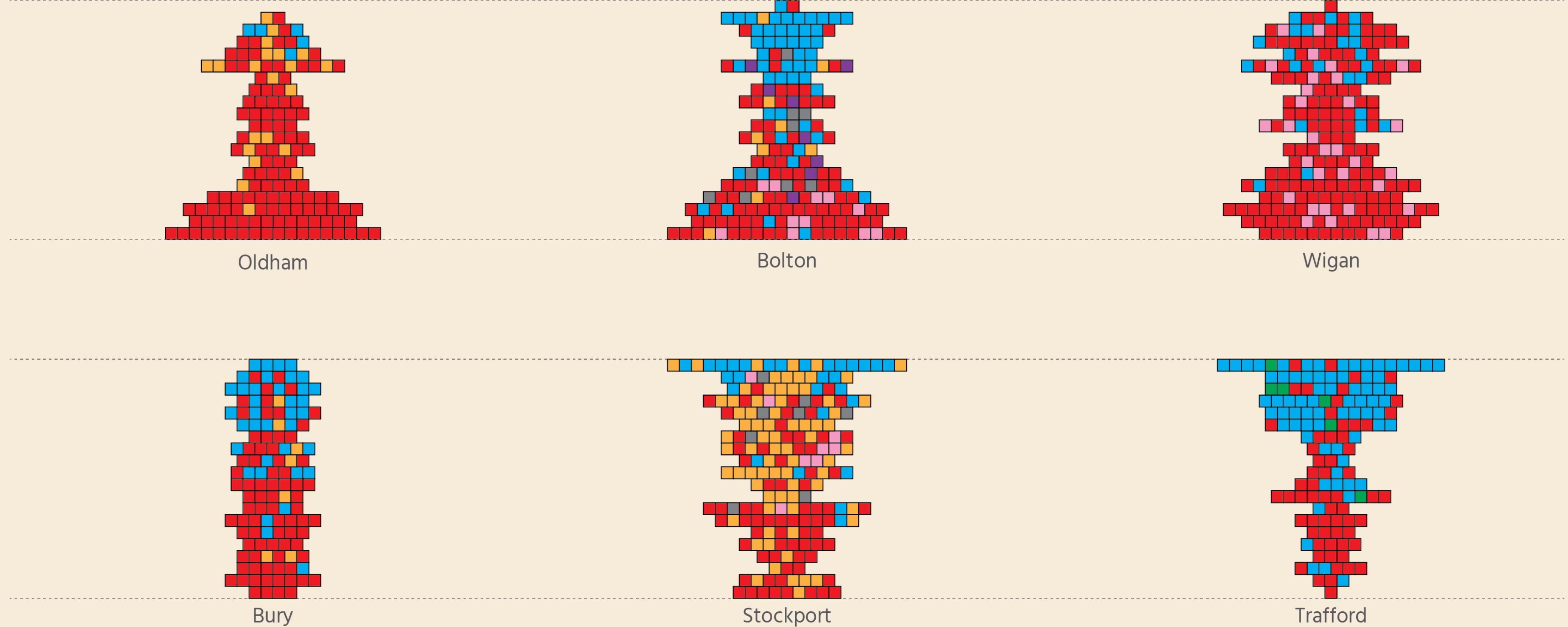


<http://bit.ly/ODM-GITLD2>

DEPRIVATION vs POLITICAL REPRESENTATION IN GREATER MANCHESTER (SEPT 18)



<http://bit.ly/ODM-GITLD2>



Visualisation showing deprivation mapped to political representation.

Authorities sorted according to the relative deprivation of the area using data from the Index of Multiple Deprivation 2015, with Manchester being the most deprived and Trafford least.

Conservatives	No dominant party
Labour	Other
Liberal Democrats	UK Independence Party
Green	

Shapes show the relative deprivation profile of each local authority area with a wider bottom indicating more deprivation and a wider top less deprivation. Local authorities are divided into Lower Super Output Areas (LSOAs) each area containing approximately 1,500 residents. There are 32,844 LSOAs across England each one ranked according to their level of relative deprivation. These rankings are sorted into

<http://bit.ly/ODM-GITLD2>

LET'S TAKE A LOOK AT SOME EXAMPLES...

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Crime and policing in England, Wales and Northern Ireland

FIND YOUR NEIGHBOURHOOD

Latest news



[Government launches new national hate crime awareness campaign](#)

1 November 2018

The campaign seeks to help the public understand what constitutes a hate crime, particularly offences which often people do not recognise as criminal, such as some forms of online and verbal abuse.

Recent news

[Cyber Aware launches #OneReset campaign](#)

[Government publishes updated Hate Crime Action Plan](#)

[Neighbourhood Watch launches campaign resources](#)

[See all news articles](#)

[Contact the police](#)

Find details of how to contact the police in emergency or non-emergency situations.

[Crime map](#)

Explore and compare crime and outcomes of crime in your neighbourhood.

[Performance](#)

See how your force is performing and how its performance compares to other areas.

[Police workforce diversity](#)

Details of how the ethnicity and gender of the police workforce in your force compares with that of the population of the area they serve.

[Your neighbourhood](#)

Discover more information about your area and the team responsible for

[Your police and crime commissioner](#)

Find out about your force's police and

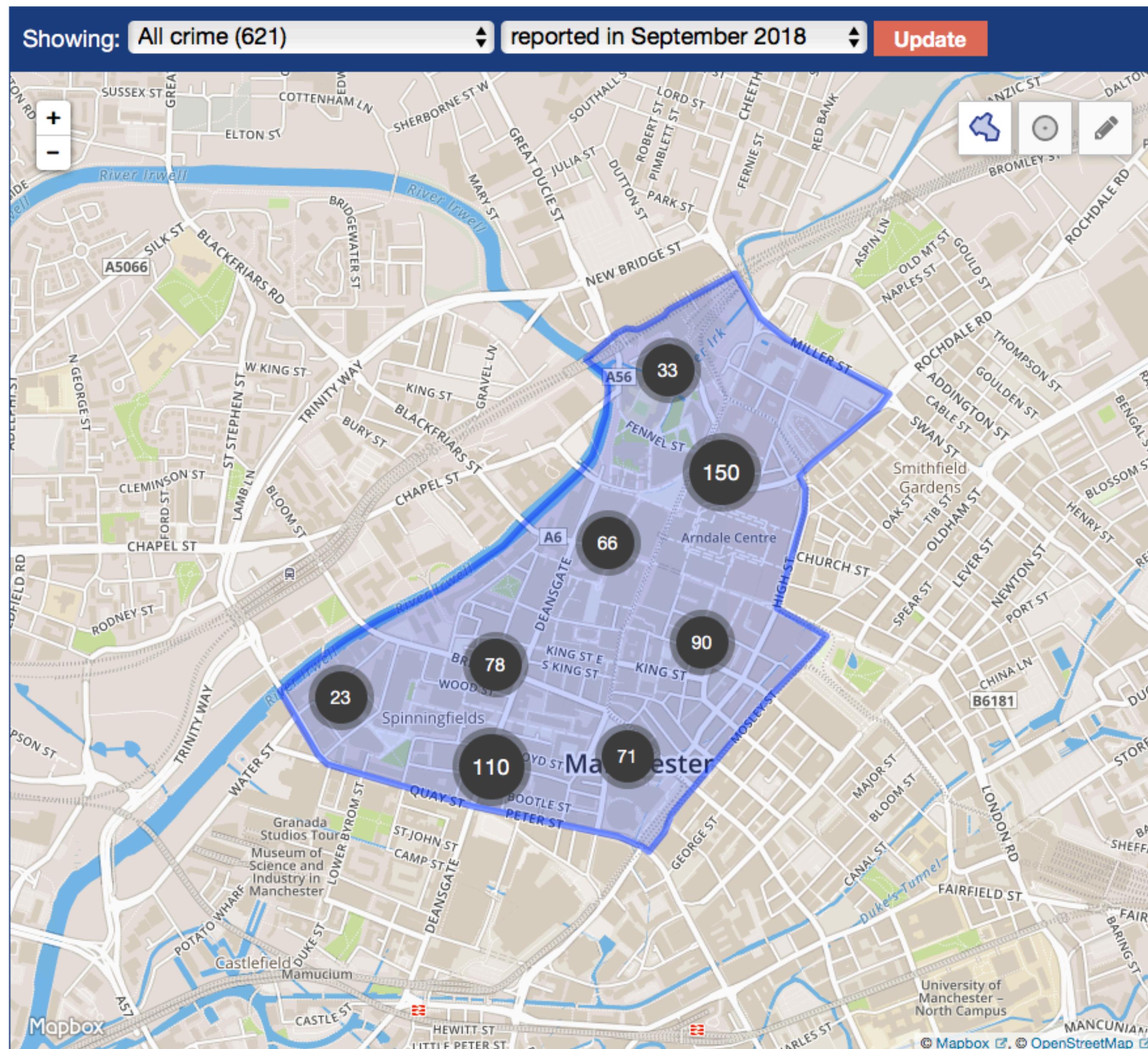
[Information & advice](#)

Practical information about reporting incidents, how the police work, and

[Crime p https://www.police.uk](https://www.police.uk)

Find out h
e to avoid becoming a victim of crime.

Click on the dots on the map for information about individual crimes.



[News and events](#)

[Local policing priorities](#)

[Performance](#)

[Community Payback](#)

Next steps

[View detailed statistics](#)

[Sign up for alerts](#)

[Share this page](#)

Related pages

[How to avoid being a victim of crime](#)

[Find out more about Greater Manchester Police's performance on HMIC's website](#)

[How often is the information on the website updated?](#)

<https://www.police.uk>



Welcome to Nomis

Nomis is a service provided by the Office for National Statistics, ONS, to give you free access to the most detailed and up-to-date UK labour market statistics from official sources.

[Information for first-time visitors](#)
[Sign-in or Register](#)

Labour Market Profiles

View a labour market profile of an area. Includes some of the data from our key datasets on population, employment, unemployment, qualifications, earnings, benefit claimants and businesses.

[Local Authority Profile](#) (district/county areas)

[Local Enterprise Partnerships Profile](#)

[Combined Authority Profile](#)

[Regional and National Profile](#)

[2010 Parliamentary Constituencies Profile](#)

[2011 Ward Profile](#) (England & Wales only)

Data Downloads

Create a data download from one of our full range of data sets. Data is available at a very detailed level.

[Query data](#)

Download figures from a single data set.

Census Statistics

[2011 Data catalogue](#)

Browse by table type and number, or view by release.

[2011 Search by topic \(table finder\)](#)

Search by keyword and geography type.

[2001 catalogue](#)

Browse by table type and number.

[2001 Search by topic \(table finder\)](#)

Search by keyword and geography type.

Local Area Report

View a [report for a local area](#) such as a parish, ward, village or town. Includes information on the characteristics of people and households in the area.

Postcode or area name

Search

Latest News

[Annual Survey of Hours and Earnings: 2018 data released](#) (25/10/2018)

[Mortality data: 2017 data released](#) (23/10/2018)

[DWP Consultation Response Published: Proposals for additional series to count unemployed claimants](#) (22/10/2018)

[Claimant Count / Jobseekers allowance: September 2018 data released](#) (16/10/2018)

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

2011 ward profile

Search

You can search for a profile by postcode or place name.

[Search](#)

Select from list

Choose a local authority

then choose a ward

[View profile](#)

2011 Ward Labour Market Profile E36006273 : Ancoats And Clayton

[Print](#)

[PDF](#)

[Email report](#)

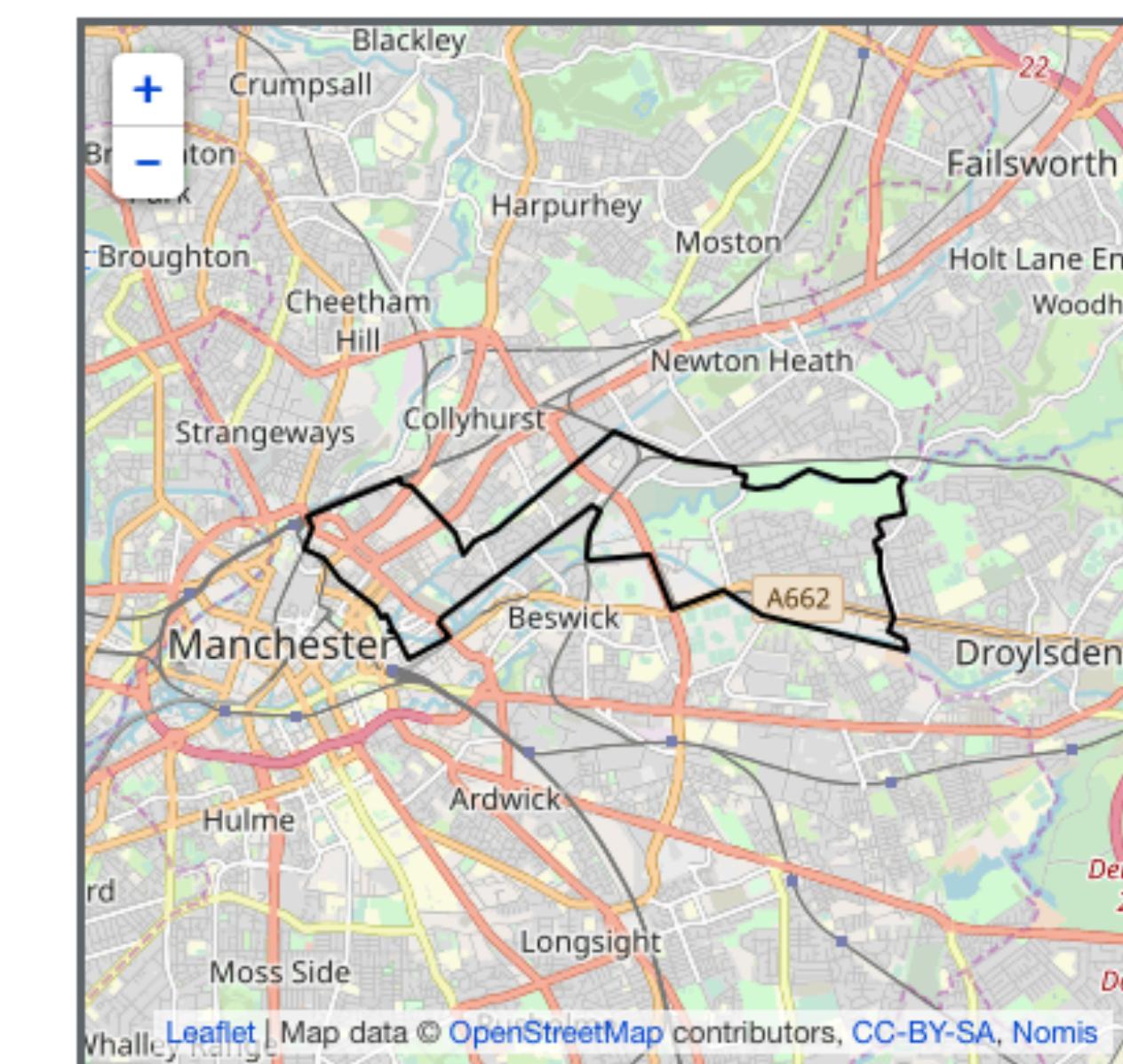
This summary gives an overview of the labour market within E36006273 : Ancoats and Clayton 2011 ward which is in the [Manchester local authority](#).

All figures are the most recent available.

- ▶ Resident population
- ▶ Labour Supply
- ▶ Out-of-work benefits
- ▶ Definitions and explanations

Use the tools at the bottom of each table to:

- View time-series figures
- Compare all wards in the authority
- Download data (Excel spreadsheet)
- Query the data in more detail



Resident Population

Population aged 16-64 (2013)

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

[Search All](#)

Search, explore and download UK grant data from funders publishing open data to the 360Giving Standard.

94

Funders

179,070

Recipients

301,736

Grants

360GIVING

360Giving supports organisations to publish their grants data in an open, standardised way and helps people to understand and use the data to support decision-making and learning across the charitable giving sector.

[Find out more about 360Giving](#)

360Giving is a company limited by guarantee (Company Number 09668396) and a registered charity (Charity Number 1164883)

Running version ea94a58

GrantNav uses open data published to the 360Giving Standard.

GrantNav enables people to search, filter and download across these datasets, for free.

For feedback and questions, please email grantnav@threesixtygiving.org

Links

[About](#)

[Funders](#)

[Recipients](#)

[Terms and Conditions](#)

[Take Down Policy](#)

[Data Used in GrantNav](#)

[Reusing GrantNav Data](#)

[Developers](#)

<http://grantnav.threesixtygiving.org/>

manchester



Search All Fields Locations Recipients Titles & Descriptions

Filter By

Currency

GBP (4,257)

Amount Awarded (GBP)

Smallest

Recipient Region

North West (3,430)

London (74)

East Midlands (19)

Recipient District

Manchester District (2,542)

Salford District (199)

Trafford District (165)

Results

Sort By: Best Match

Total grants 4,257

Total funders 55

Total recipients 2,495

Earliest award date 07 Apr 1998

Latest award date 01 Oct 2018

Total GBP grants 4,257

Total GBP awarded £639,466,993

Largest GBP award £57,988,111

Smallest GBP award £0

Total Non-GBP grants 0

Manchester Children's Burns Camp

01 Nov 2016

A Christmas party for 50 children from the annual burns camp.

Amount: £5,000

Funder: One Manchester

Recipient: Manchester Children's Burns Camp

Manchester Community Legal Advice Service Partnership

04 Sep 2008

Led by Manchester Citizens Advice Bureaux Services (Manchester CAB), this project will involve 22 partners to improve the provision of, and access to, advice in Manchester. This will be done by the creation of the Manchester Legal Advice Services Partnership (MCLASP) and will include a telephone gateway to provide a single access point for clients.

Amount: £496,276

Funder: The Big Lottery Fund

Recipient: Manchester Citizens Advice Bureaux Se...

Region: North West

District: Manchester District

Grant to East Manchester Academy

27 Mar 2013

Amount: £2,500

towards a two-night camping trip to the Lake District for disadvantaged children from Manchester

<http://grantnav.threesixtygiving.org/>



The home of Greater Manchester mapped data.

MappingGM provides a range of maps that you can use to explore Greater Manchester's housing, planning, infrastructure, socio-economic and demographic data. The maps are open for you to use, and most of the data used is freely available to download.

[Learn more »](#)

Explore the maps

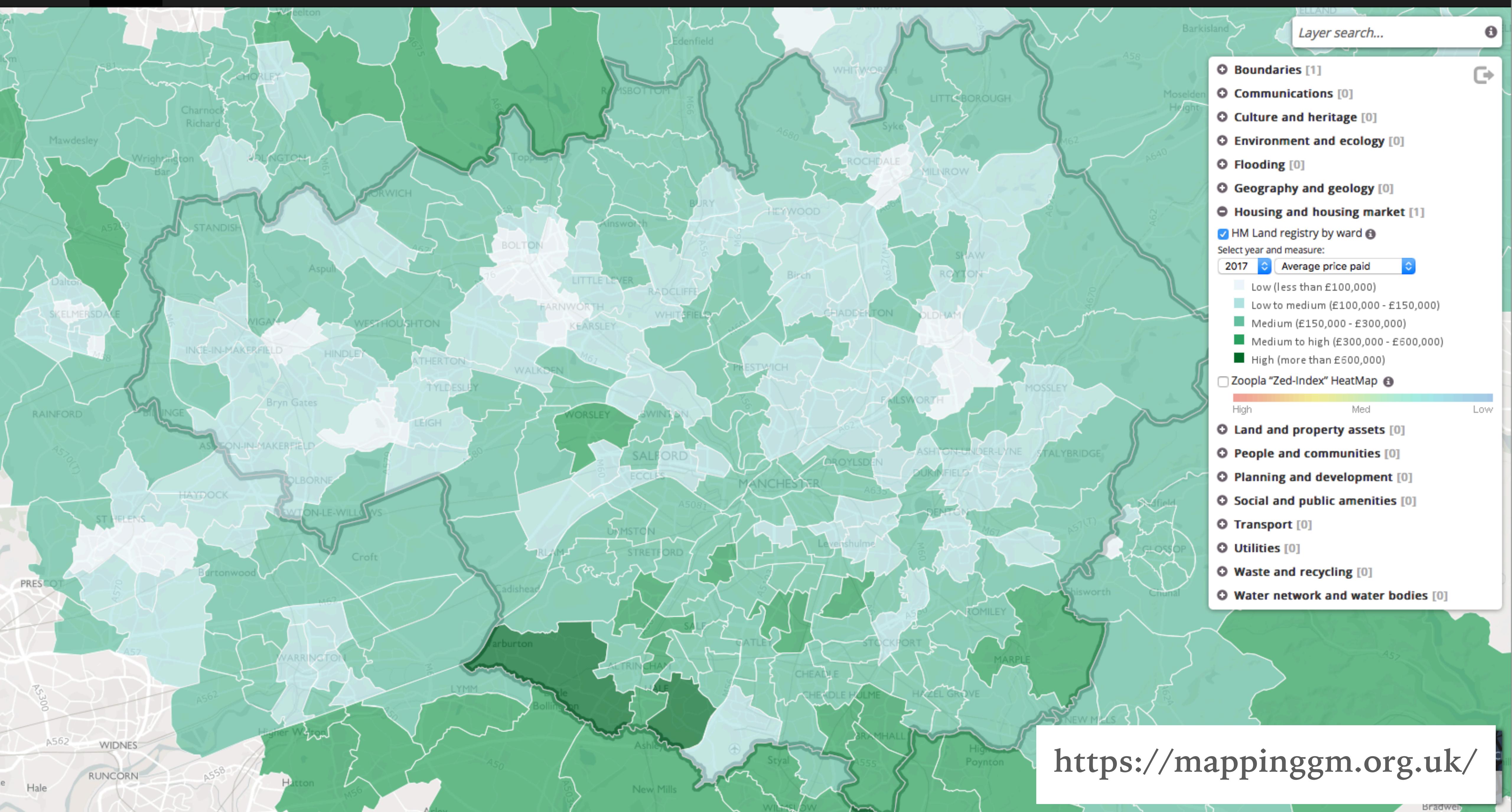
GMODIN

Planning, housing and infrastructure data across
Greater Manchester.

People and Comm

Explore socio-economic and
about the people and communities of Greater

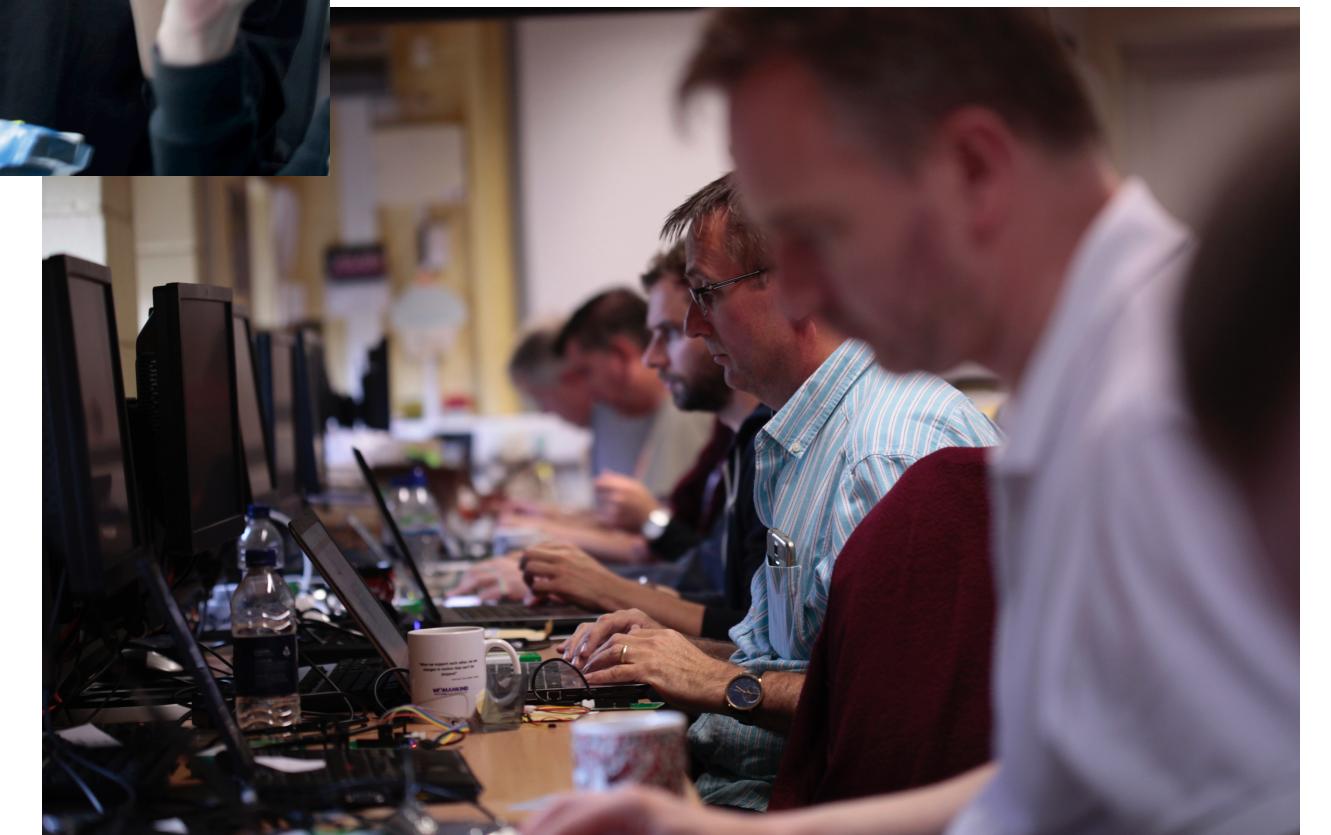
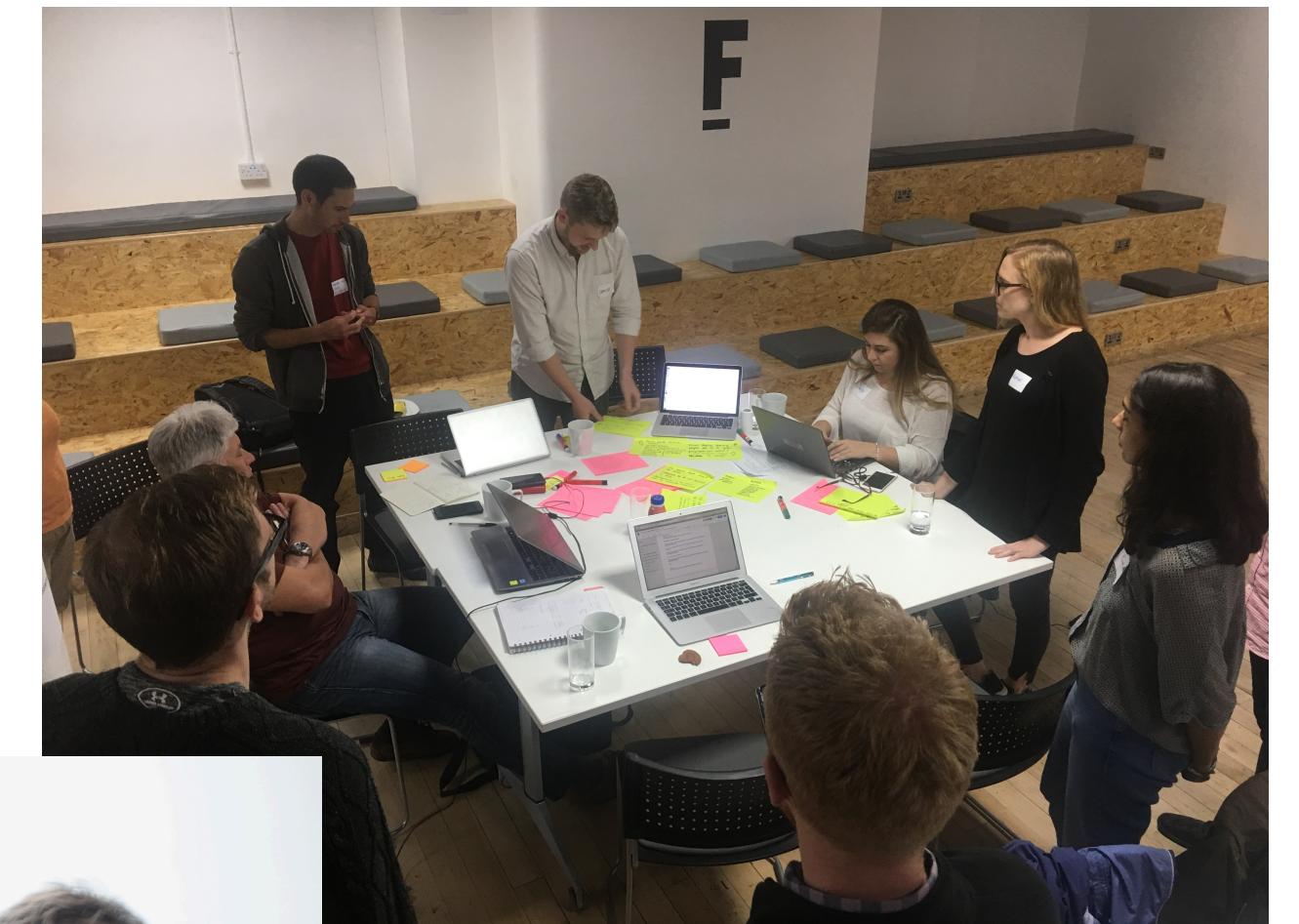
<https://mappinggm.org.uk/>



EXERCISES



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EXERCISES



- What is the data telling you?
- What doesn't it tell you?
- What concerns might you have about it?
- Anything else?

MATHS QUESTION

A bat and ball cost £1.10 and the bat costs £1 more than the ball.
What is the cost of the bat and what is the cost of the ball?