

#### Al, machine learning and the administration of justice in England and Wales: prospects, opportunities, challenges





- Background on reform to the courts and tribunals in England and Wales
- Using technology and data to understand users of the courts and tribunals in England and Wales
- Current challenges and future opportunities



- Labour-intensive, paper-based systems which create error, duplication, inefficiency
- Processes that are hard to administer and even harder to navigate for people;
- Few modern, swift routes available for our people to resolve their issues

#### The system we are reforming







#### Our guiding principles





Building in partnership



Increasing transparency and accountability

Increasing accessibility



Securing financial sustainability



OPEN

Being proportionate and segmented

2050

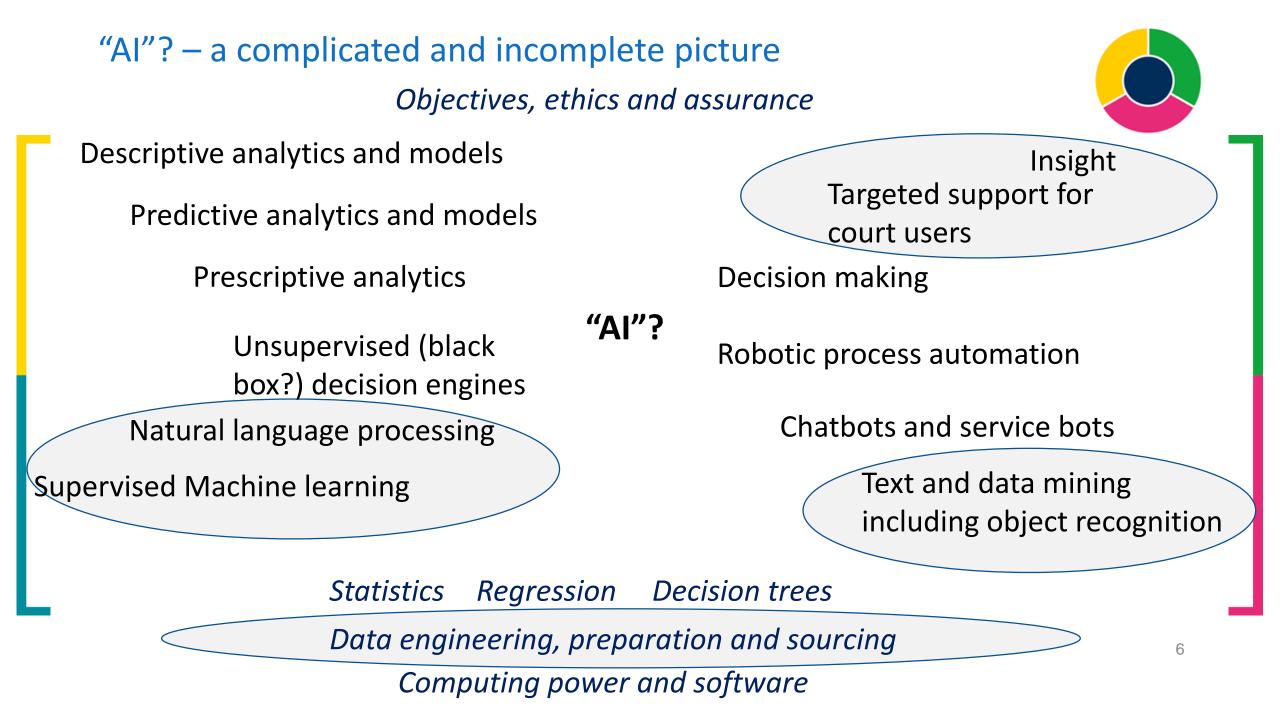
Designing for 2050 – not 2018



Strengthening our strong, independent and trusted justice heritage

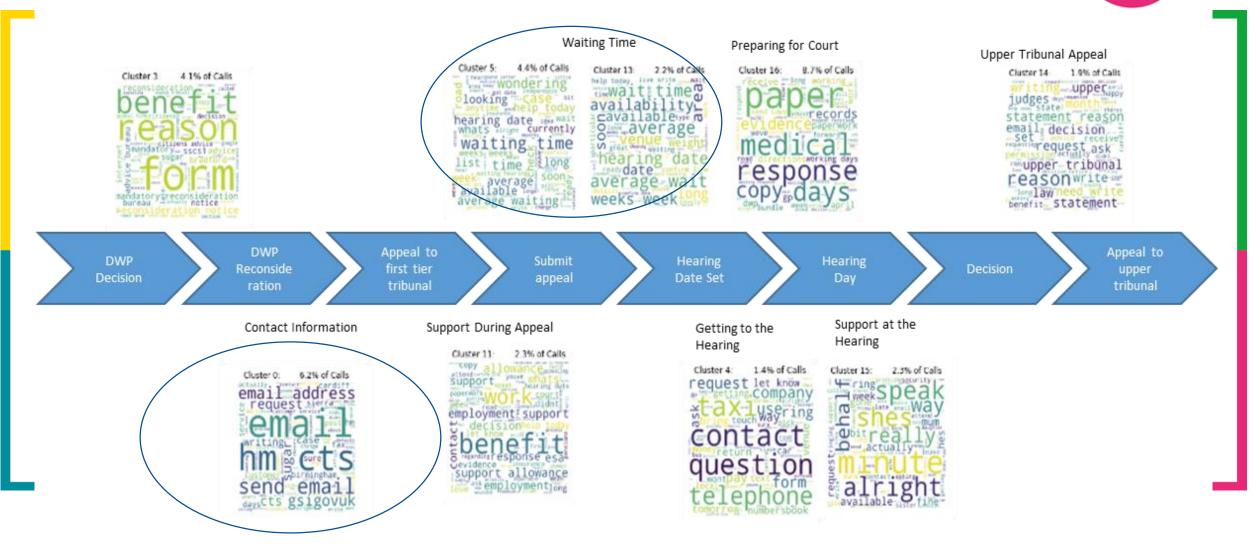


Putting people at the heart



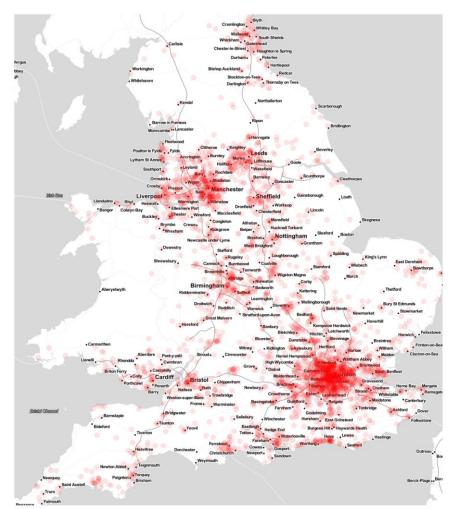
# What is the issue I am trying to address?

## Reducing failure demand and improve user experience – natural language processing of social security appeals calls

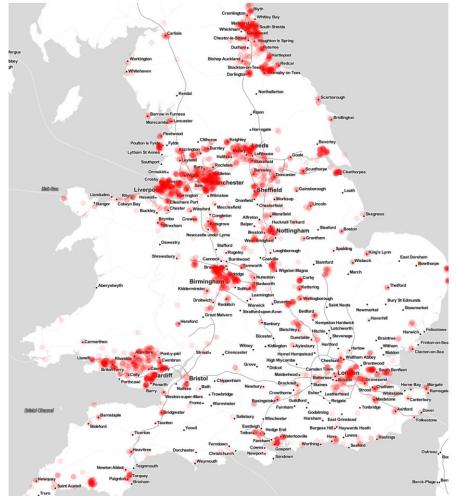


#### Manipulating and analysing previously unused internal data to inform our administration – specified civil money claims

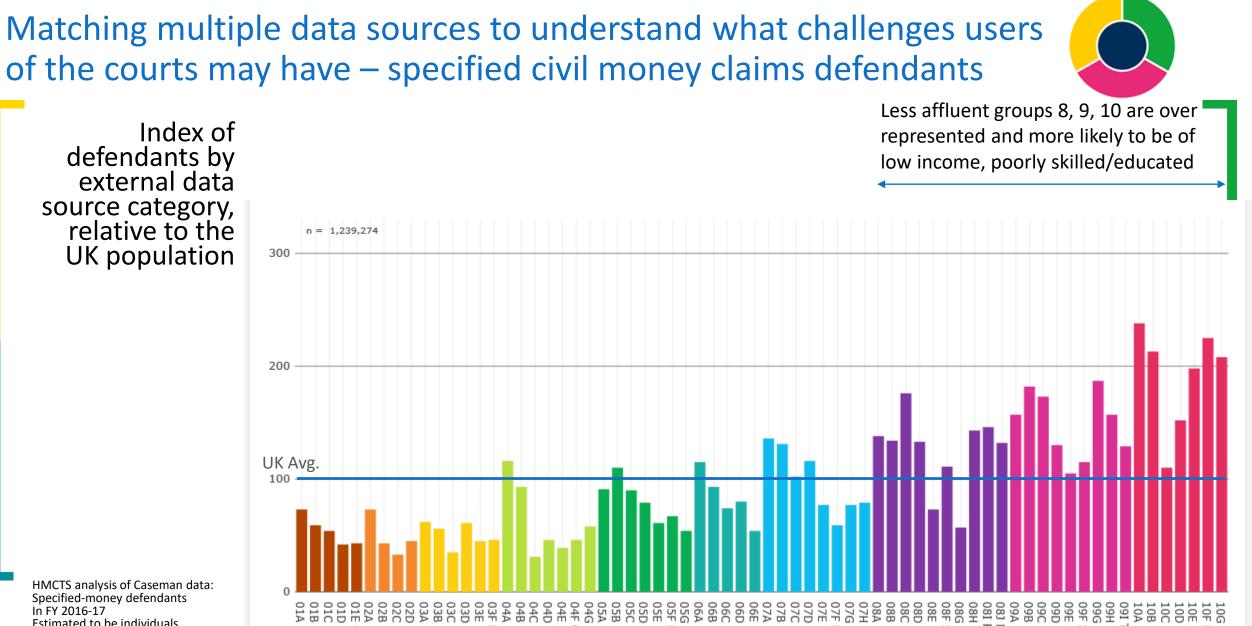
Top 10% of neighbourhoods by rate of individual <u>claimants</u> per population, for FY 2016-17



Top 10% of neighbourhoods by rate of <u>defendants</u> per population across England and Wales

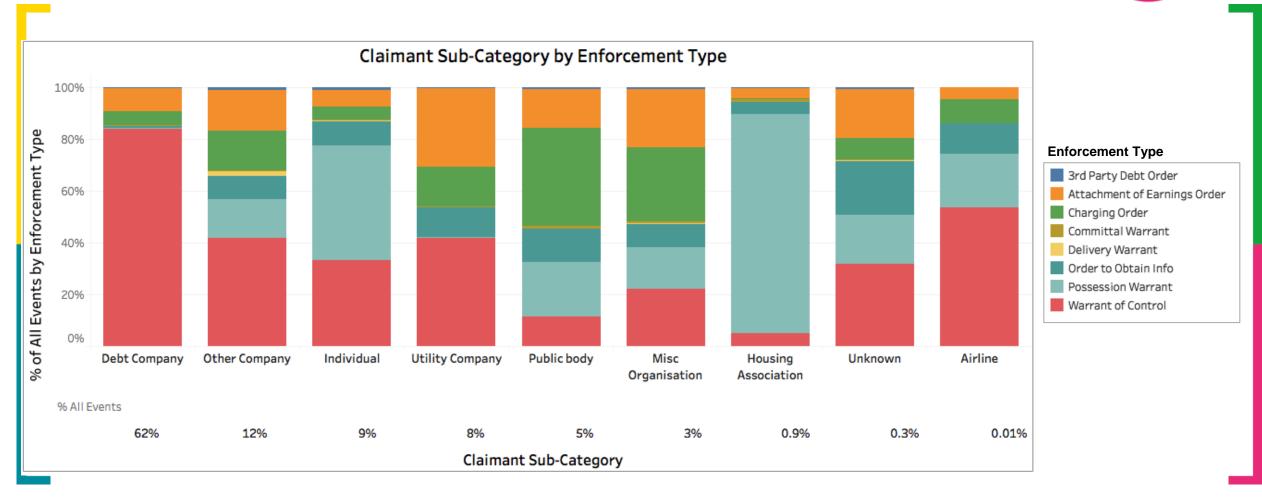






Specified-money defendants In FY 2016-17 Estimated to be individuals c1.2m in total

### Data science to turn legacy data into an understanding of users to help redesign services – Civil Enforcement



## 60%

# Garbage in, Garbage Out ('GIGO')

# Context is key for training and implementation

## Don't forget the fundamentals -'what works', quality assurance & ethics

#### The future for us



- Building better data in partnership with external organisations
- Opening up our data where appropriate and safe
- Sharing of understanding and approaches across legal sector
- Building new tools to help judges with the administration of justice (but not judicial decision making)
- With caution building new tools to support people-centric administration

Question - Do we need to define 'AI' and the associated language much more clearly? It is largely associated with decision making engines – but one huge opportunity across firms and administrators is doing simple things in a much easier way.....