

Address matching and analysis

National Audit Office

An introduction to the **National Audit Office**



|2

The UK's independent public spending watchdog.

We support Parliament in holding government to account and help improve public services through our high-quality audits



Key areas of cross-cutting expertise



Why is addressing important to the NAO?

- In auditing the economy efficiency and effectiveness of public service delivery it
 is important to remember that all public services are delivered somewhere.
- Depending on the context of the audit it is important to know some or all of the following:
 - What is being delivered where
 - To what level of service/quality/cost
 - Servicing which populations
 - Where there are changes in service delivery: what are the potential impacts

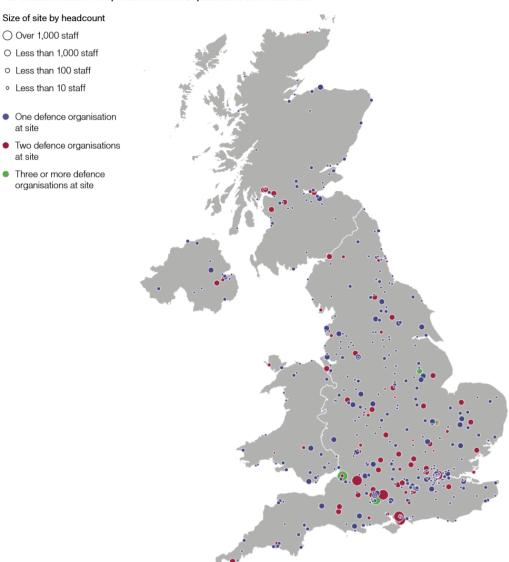
Figure 3

Size of site by headcount Over 1,000 staff O Less than 1,000 staff Less than 100 staff Less than 10 staff

 Three or more defence organisations at site

Distribution of the Ministry of Defence's civilian workforce in the United Kingdom

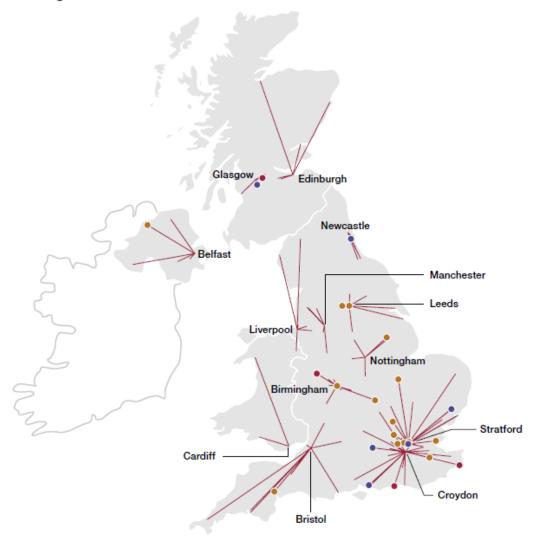
The civilian workforce is spread across the Department's bases and sites



Source: Reforming the Civilian Workforce, March 2019

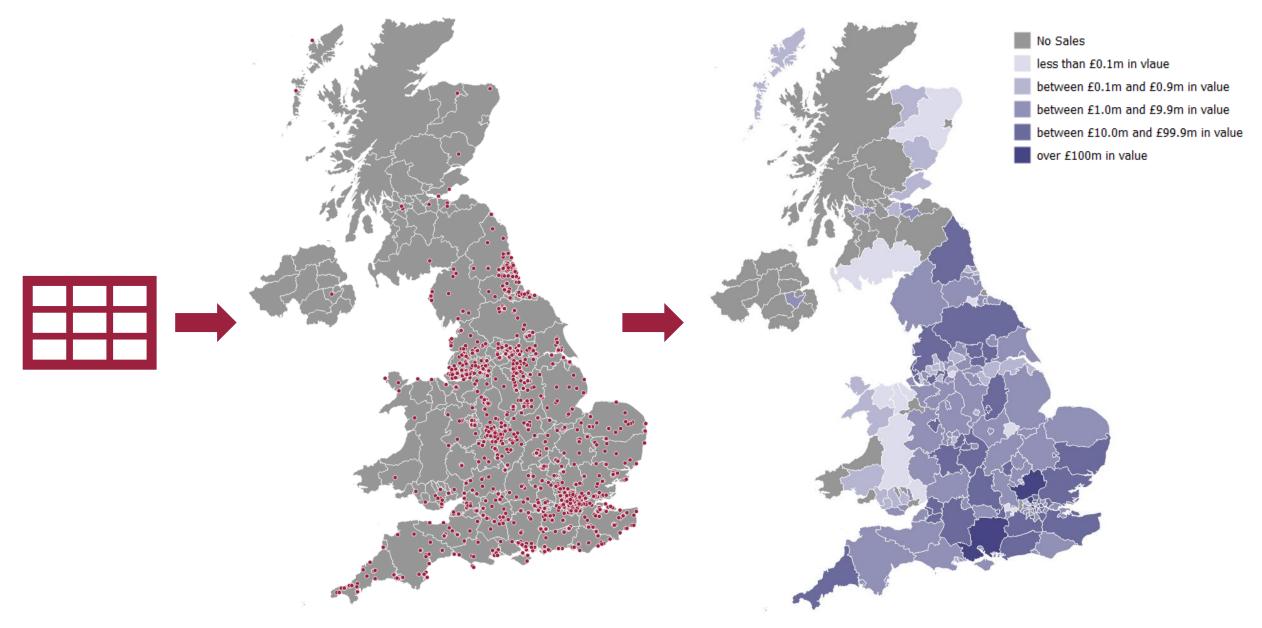
Figure 9

HMRC regional centres and links to the current offices which will transfer work and staff to each regional centre



Source: Managing the HMRC Estate, January 2017

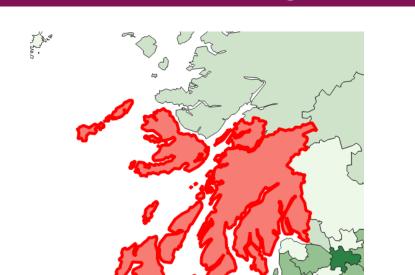




Source: Investigation into HMG Land Disposal and Strategy, 2019

|6

The challenge of addressing



Client data

Statistical release / shapefile / gpkg / GeoJSON

Argyll and Bute Argyll & Bute S12000035 S12000035

GSS codes for geographies make joining easier (Not fool-proof but easier)

Manually georeferencing address strings can be...... time consuming and challenging

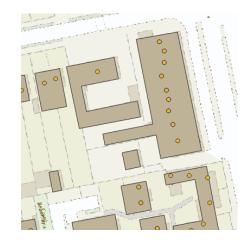
Address	Issue?
MURCHISON HOUSE EH9 3LA DEPARTMENT FOR	Postcode in the middle
LAUREL COTTAGE DOVENBY COCKERMOUTH CUMBRIA	
CA12 OPN	potential typo
SILVER STREET CLINIC LAND LONDON N8	rough geolocation
ROSE COTTAGE 27-29 HALLCHURCH ROAD DY2 OTQ	Regex miss

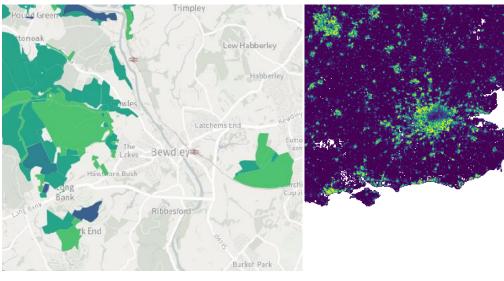
Why should we all care about accurate addressing

Its foundational to place based analysis and evaluation



Higher confidence in accuracy of data received from other departments







Thank you

For more information about the work of the NAO

Visit our website www.nao.org.uk

or follow us on twitter

<u>@NAOorquk</u>