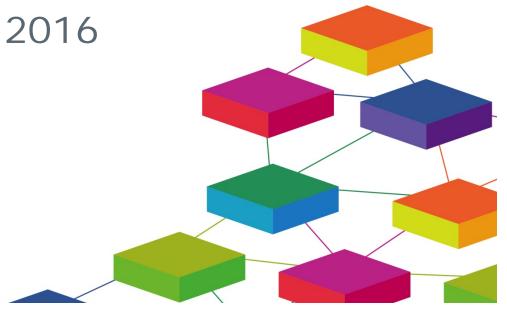
The Consumer Data Research Centre: An Introduction to our Data, Services and Research

Manchester, 12th July 2016

Amy O'Neill Tom Fleming







Who we are...

The Consumer Data Research Centre (CDRC) is funded by the Economic and Social Research Council as part of the Big Data Network (Phase 2)

- Urban Big Data Centre
- Business and Local Government
 Data Research Centre
- Consumer Data Research Centre

The Centre brings together world-class researchers at Leeds, UCL, Liverpool and Oxford.















Our key objectives...

Our key objectives are to:

- Promote the use of consumer data for social science research and for the benefit of wider society
- Support consumer-related organisations in maximizing their innovation potential
- Increase data analytics capabilities among the workforce
- Drive economic growth

The Centre is working to meet these objectives by:

- Proactively acquiring data from a range of commercial organisations
- Facilitating access to consumer related data via a three-tier data service
- Establishing high impact research projects
- Delivering training and capacity building activities





Core activities

Data Acquisition

- Proactive, Reactive and Passive
- 'Ladder of Engagement'
- User Forums

Data Service

- Open, safeguarded and secure data services
- Three secure labs (UoL, UCL, Liverpool)

Research

- Internal research projects (Driver projects/SLRPs)
- Collaborative projects with research/commercial partners
- Linked Projects (Obesity Network and EMPOWER)

Training and Capacity Building

- Short courses
- Internships and fellowships
- MSc programme
- Masters dissertation scheme



Data Service

Three tier data service accessed via data.cdrc.ac.uk

CDRC Open CDRC Safeguarded CDRC Secure Controlled data Open data & mapping Remote service portal Access via secure labs Registration required Retail, consumer & Registration required contextual information Project approval required Project approval Open access with 'light required touch registration' Online training required Safer Researcher Training Accreditation required

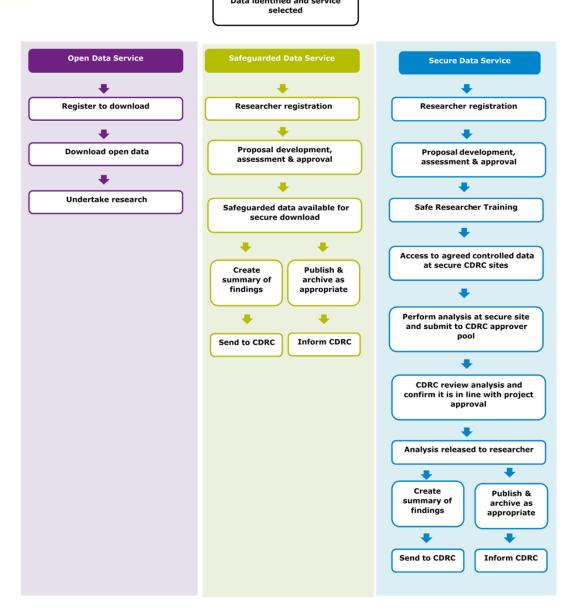


Visit www.cdrc.ac.uk

Review CDRC Data catalogue

Data identified and service

User Journey







The 5 Safes framework

- Safe People Only trusted researchers will be allowed access, with training on IG being mandatory
- Safe Projects Only approved projects may be undertaken
- Safe Setting each CDRC site operates a secure data lab
- Safe Data Input of data to the system will be controlled, with only the data approved for that project loaded
- Safe Outputs Output of data will also be controlled, including statistical results, to make sure they are not disclosive



Service Documentation

- CDRC User Guide and Research Approvals Terms of Reference
- Initial Proposal form
- Full proposal form
- Response from Research Approvals Group (Safe Project)
- CDRC User Agreement and Training (Safe People)
- Site specific User Guides and T&Cs



Secure Labs

- Labs at UCL, Liverpool and Leeds with access control and CCTV (Safe Setting)
- Virtual research environment with project data loaded and no access to other data (Safe Data)
- Access to common analytical tools for statistics,
 GIS and programming
- All analysis conducted within the virtual research environment and outputs checked before release (Safe Outputs)

An unsafe output



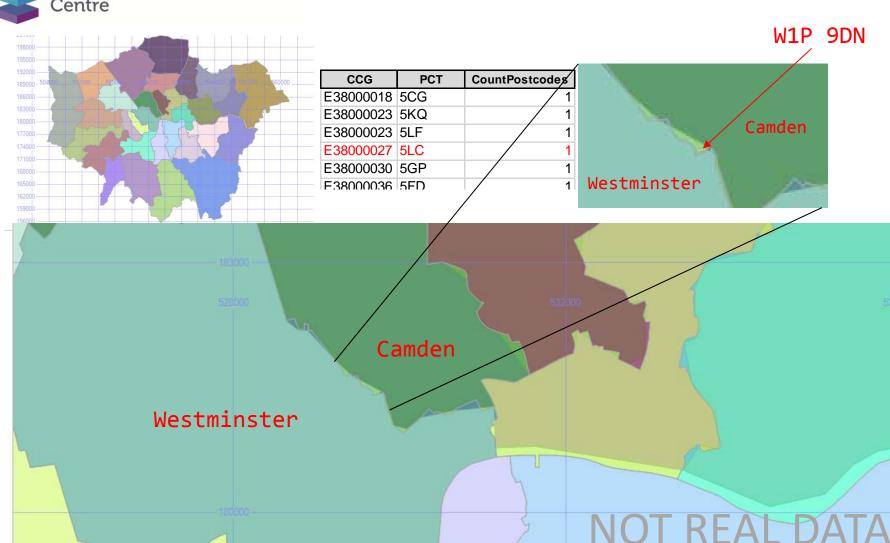
Nine pharmacists who sold drugs illegally have been banned from practice,	
after a BBC investigation led to the "biggest crackdown" in UK	

CCG	PCT	DispensedOpiatesWithoutPrescription
E38000027	5LC	300
E38000023	5A7	0
E38000098	5LF	0
E38000023	5LF	0
E38000092	5LD	0
E38000040	5K9	0
E38000066	5A8	0
E38000077	5A4	0
E38000179	5M7	0
E38000105	5M7	0
E38000011	TAK	0

NOT REAL DATA



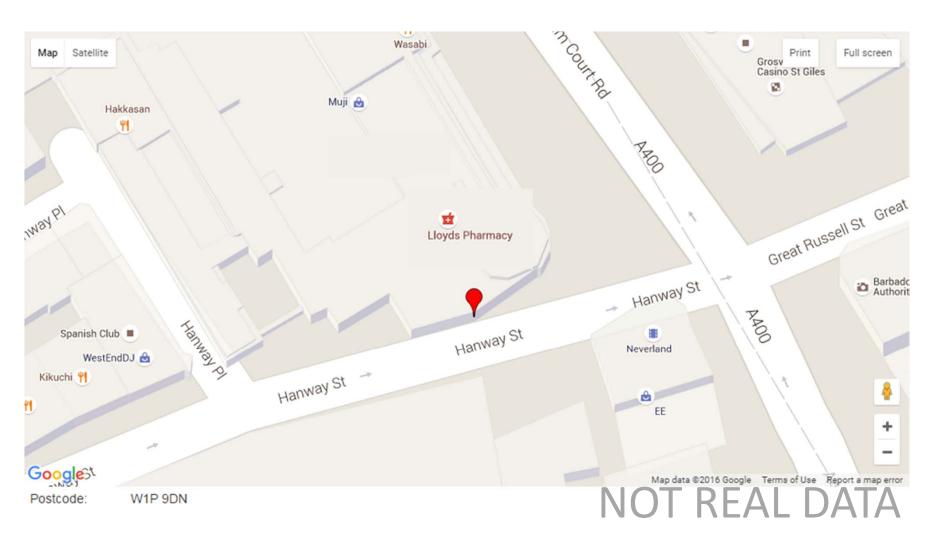
An unsafe output







An unsafe output





Data Licence Agreements

- Data Licence Agreement template
 - Specific restrictions including publication conditions
 - Data set variables description level of aggregation, time etc.
 - Use of partner name
- Data Sharing Agreement



Data Partners















Property Transactions and Associated Migration

This data relates to property transactions and associated migration within the UK for 2014. It covers 914,486 property listings from major UK property portals. It has been corroborated with land registry sales and Royal Mail re-directions to produce a hindsight data view of:

- Listings for Sale
- Transactions recorded
- Move Dates evidenced
- Destination postcodes



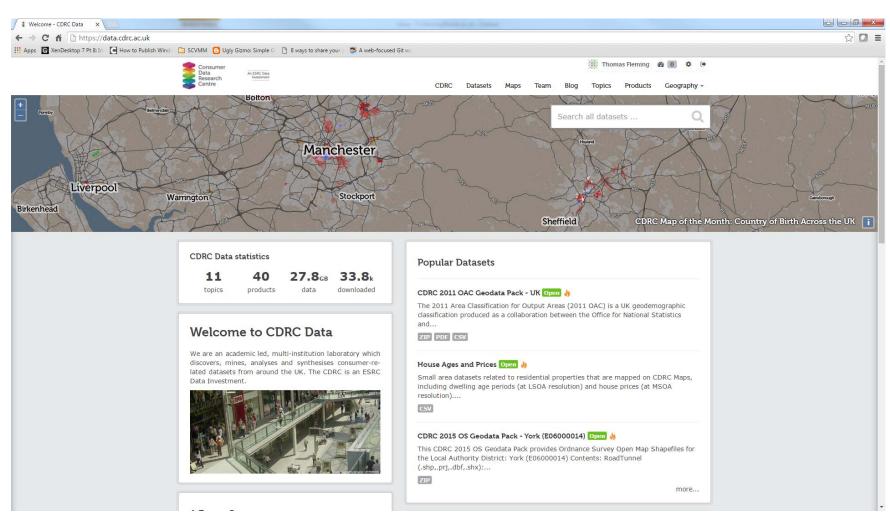
Property Transactions and Associated Migration

	Within	Outflow	Inflow
London	14,586	10,169	2,592
North East	6,284	702	819
West Midlands	15,291	2,687	2,565
North West	18,209	2,368	2,180
East Midlands	15,008	3,108	3,753
Yorkshire and The Humber	15,094	2,060	2,263
Wales	6,439	1,013	1,844
South East	37,543	7,696	9,002
East of England	24,673	4,845	5,595
South West	21,639	3,283	5,929
Northern Ireland			233
Scotland			1,156

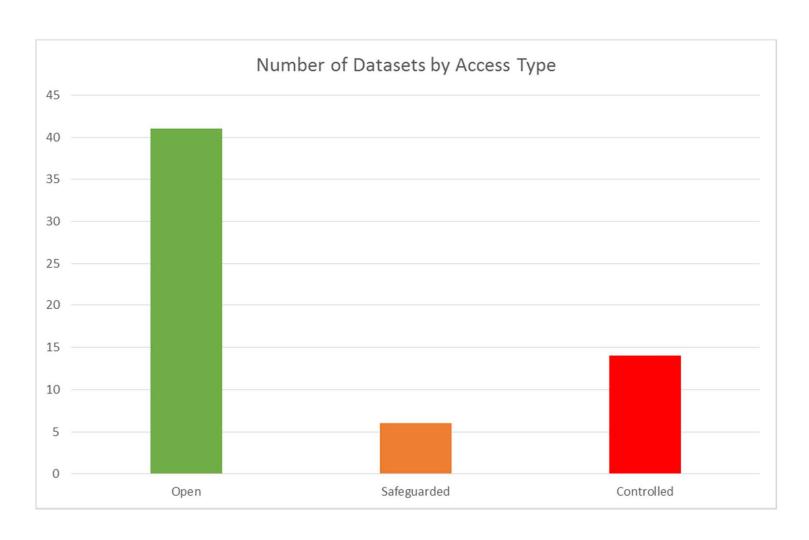




CDRC Datastore



Datasets



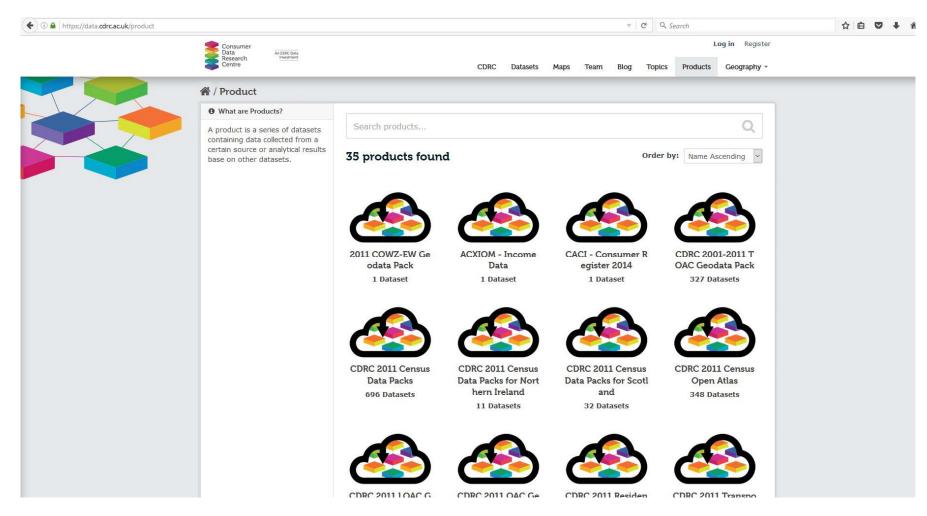


Datastore aims

- Catalogue all CDRC data deposits
- Attributes are searchable (Metadata)
- Provide access to CDRC Data Products
- Make life simple...
 - Visual and interactive interfaces
 - Training & Materials
 - Local Authority Datastores



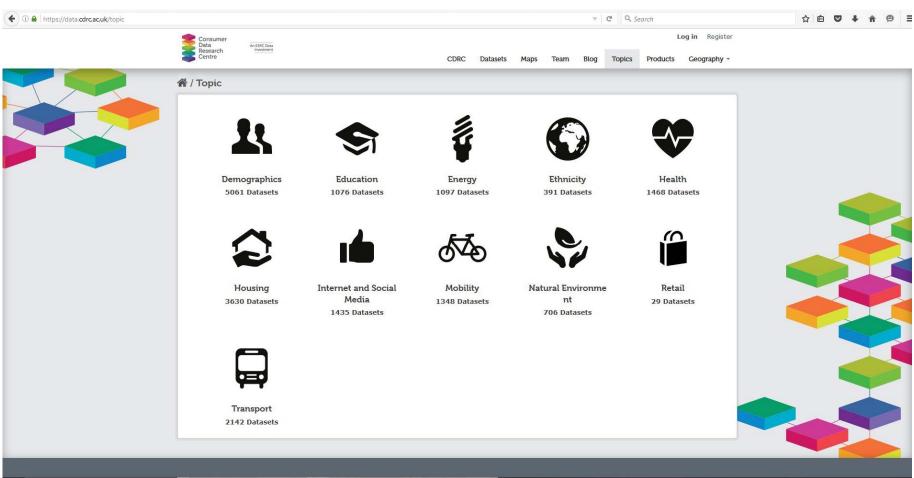
Catalogue



Browse by Product



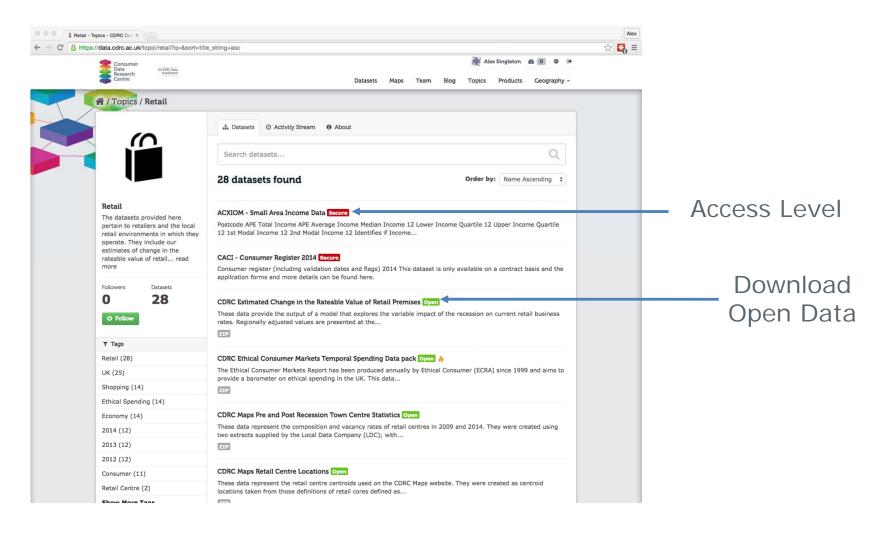
Catalogue



Browse by Topic



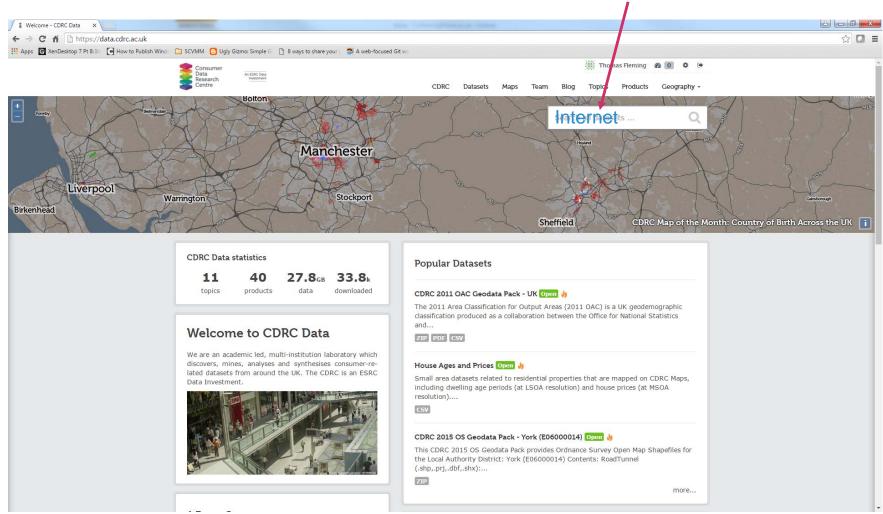
Catalogue





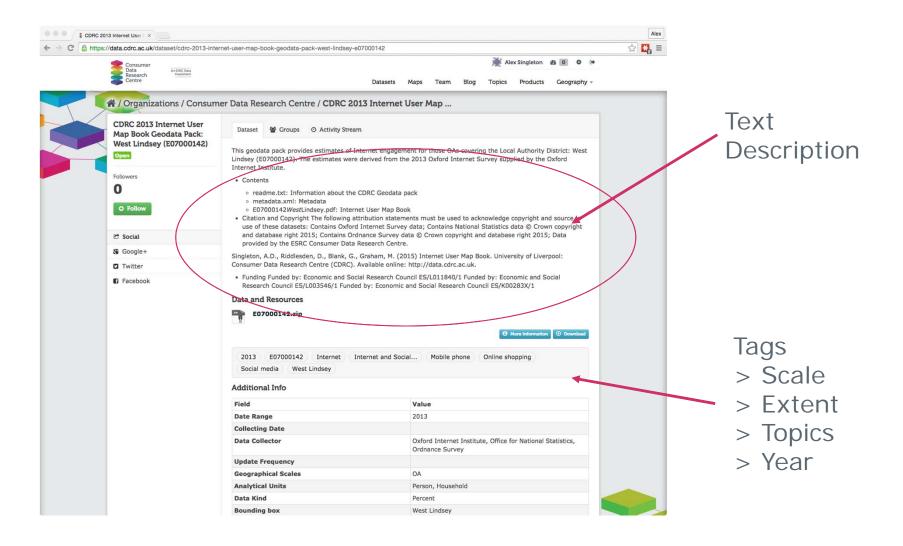
Metadata

Search...





Metadata







Open Data

Value Added

- Cleaned data
- Spatially referenced
- Added attributes
- More usable formats
- Attribute descriptions
- Available for national, regional or local extents



Open Data

Retailer / Consumer Data Partners

CDRC
Academic/
Researcher /
Postgraduate
student

Internet User Classification

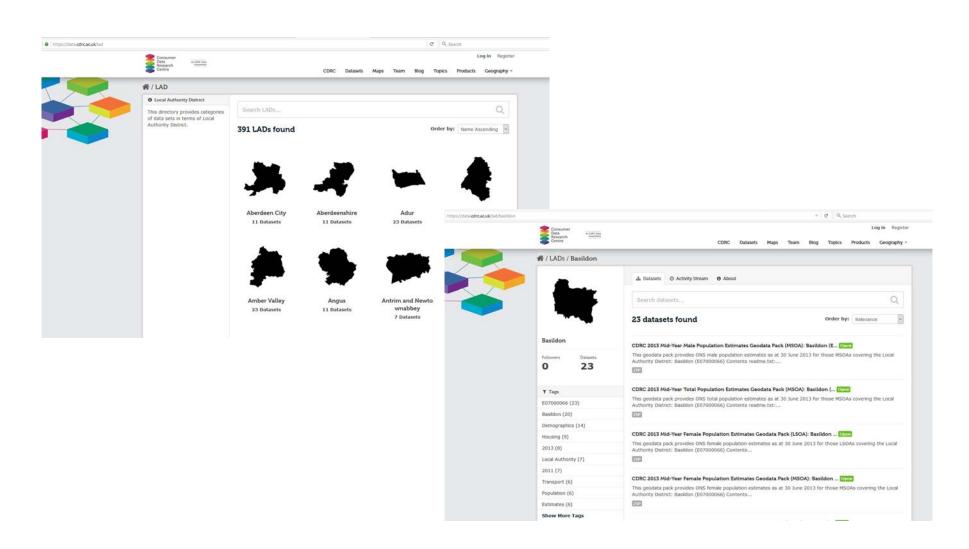
Open
Data
+ Consumer
Data
Research
Centre







Local Authority Datastores







Safeguarded

- Shop Direct Transactions and Products
- Transaction Data
- Synthetic Population
- Bike Citizens Cyclist Movement Data
- Local Data Company Retail Type or Vacancy Classification



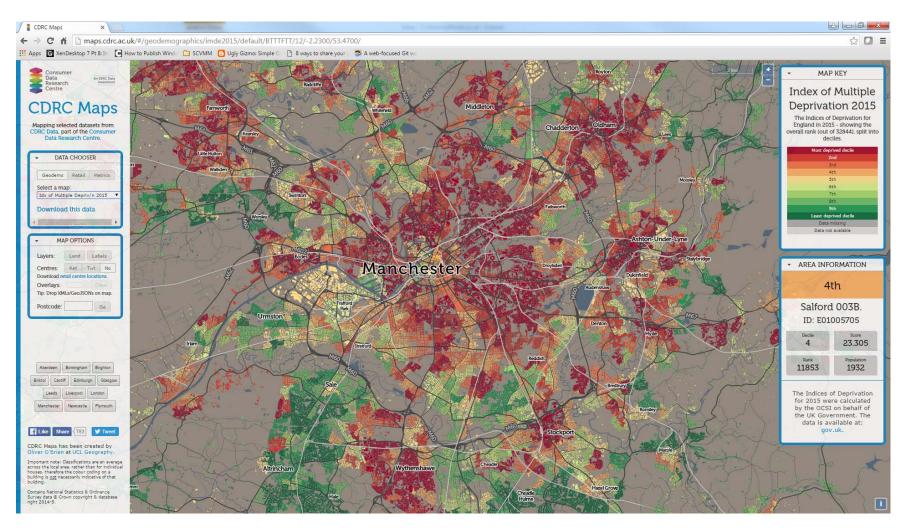


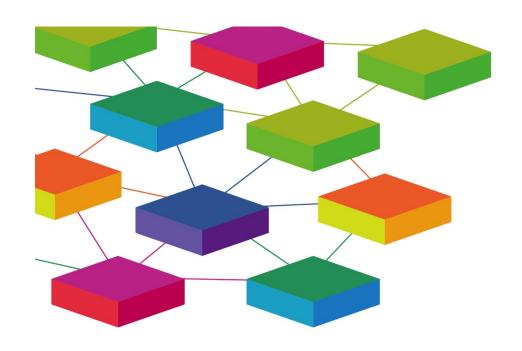
Controlled

- Youth Banking Card Provider Transactions and earning data
- Appliances Online Product Data
- Shop Direct Transactions and Products
- Appliances Online Consumer Data
- WhenFresh/Zoopla Property Transactions and Associated Migration
- HRUK Staff Health Survey Data
- CACI Consumer Registers
- Local Data Company Retail Unit Address Data
- Local Data Company Retail Type or Vacancy
- High Street Retailer Store Location Data
- High Street Retailer Store Space Data
- High Street Retailer Customer Data
- High Street Retailer Transactions With Retail Loyalty Card
- ACXIOM Small Area Income Data
- High Street Retailer Transactions Without Retail Loyalty Card



CDRC Maps





www.cdrc.ac.uk