



Department for
Business, Energy
& Industrial Strategy

LEP Outlook 2019

Indicator Handbook (LEP-level version)

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Authors:

Xavier Potau, Martin Wain, María del Carmen Calatrava, Felix Dijkstal, Cristina Rosemberg, Paul Simmonds (Technopolis).

Stephen Roper, Karen Bonner (Enterprise Research Centre)



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Contents

Introduction	7
Aims and objectives of the study	7
LEP Outlook 2019 Indicator Framework	7
Scope of the data, LEP definitions, and accuracy of the indicators	8
How to use this indicator handbook	9
People	11
Demographics	11
Population Stock	11
Population Flow	14
Jobs and demand for jobs	16
Stock of workforce	16
Demand for jobs	27
Supply of labour	31
Student population	31
Further education and apprenticeships	34
Qualification level of workforce	35
Wellbeing and earning power	37
Economic wellbeing	37
Personal wellbeing	41
Infrastructure	42
Digital infrastructure	42
Fixed broadband infrastructure	42
Mobile Broadband infrastructure	50
Housing	52
Housing stock	52
Housing supply	53
Network / economic infrastructure	54
Journey times	54
Rail crowding	69
Air freight traffic	71
Port freight traffic	72
Environmental and Natural Capital	74
Emissions and pollution	74
Flood risk	76
Availability of public green space	77
Urban-rural classification	78
Business Environment	85
Businesses	85
Business productivity	85
Business population	87
Economic dynamism	89
Start-ups and high growth firms	89
Firms that innovate	95
Trade balance	97
Economic specialism	117
Ideas	126
Business expenditure in R&D and number of businesses performing R&D activities	126
Research competitiveness and research excellence	130
Research competitiveness	130
Science and Technology assets	133
Overview of S&T assets (non-comprehensive)	133
Intellectual capital	135

Researcher population	135
Intellectual property	137
Knowledge exchange / diffusion	139

Licence information	143
Disclaimer of warranty	143

List of Figures

1 LEP Outlook 2019 Indicator Framework Dimensions	7
2 A table from the handbook	9

List of Tables

1 Population, 2017 (number of people)	11
2 Working age population, 2017, 16-64 years old (number of people)	12
3 Aged dependency ratio, 2017, 64+ over working population 16-64 years old (%)	13
4 Long-term international migration flow (inflow - outflow), 2017, all ages, number of people	14
5 Migration. Internal migration (within the UK) 2017, all ages, number of people	15
6 Total jobs, 2017 (number of jobs)	16
7 Unemployment rate, 2017 - aged 16+ (%)	17
8 Percentage in employment who are self employed - aged 16+, 2017 (%)	18
9 Percentage of all aged 16+ in employment in non-permanent employment, 2018 (%)	19
10 Probability of automation (%) for jobs in the area, 2017 and 2011	20
11 Jobs density (ratio)	27
12 Number of vacancies divided by total employment, 2017 (%)	28
13 Number of HtF vacancies divided by total number of vacancies, 2017 (%)	29
14 Number of Skills-shortage vacancies divided by total number of vacancies, 2017 (%)	30
15 HE Qualifiers Number of students 2017/18 (number)	31
16 [REDACTED] UK domiciled higher education leavers taking employment in the region (number of students)	32
17 [REDACTED] Ratio of UK domiciled higher education leavers in the region and higher education leavers taking employment in the region (%)	33
18 Percentage of economically active with Trade Apprenticeships - aged 16-64, 2018	34
19 Percentage of economically active with NVQ4+ - aged 16-64, 2018	35
20 Percentage of economically active with NVQ2 or less - aged 16-64, 2018	36
21 Earnings. Median annual pay (gross), total full-time, 2018	37
22 Ratio of median house price to median gross annual workplace-based earnings by local authority district, 2018	38
23 Ratio of lower quartile house price to lower quartile gross annual workplace-based earnings by local authority district, 2018	39
24 Gross Disposable Household Income (GDHI) per head, 2017 (£)	40
25 Life satisfaction Mean score. Extent of respondents' satisfaction with life, 2017 (scored between 0-10)	41
26 Proportion of premises with full fibre broadband (%), 2018(*)	42
27 Median download speed (Mbit/s), 2018	43
28 4G services, premises (indoor): signal from all operators (%), Threshold:-95dBm, 2018(*)	50
29 4G services, geographic (outdoor): signal from all operators (%), Threshold:-105dBm, 2018(*)	51
30 Dwelling stock, including vacants, 2017	52
31 Net additional new dwellings, 2018	53
32 Average of minimum journey times to key services (minutes), by car, 2016	54
33 Average of minimum journey times to key services (minutes), by cycle, 2016	55
34 Average of minimum journey times to key services (minutes), by public transport, 2016	56
35 Average minimum journey times to nearest of selected airports (minutes), by car, 2015	57
36 Average minimum journey times to nearest of selected airports (minutes), by public transport, 2015	60
37 Average minimum journey times to nearest of selected rail stations (minutes), by car, 2015	63
38 Average minimum journey times to nearest of selected rail stations (minutes), by public transport, 2015	66
39 Rail crowding to main city centre stations in standard class at busiest service point (Passengers in excess of capacity %, PiXC)	69

40	Total Freight (tonnes) including UK, EU and other overseas operators	71
41	UK port freight tonnage, by port and year, major and minor ports, inwards and outwards on an annual basis	72
42	Local Authority CO2 emissions estimates (t CO2, per capita)	74
43	Population-weighted annual mean PM2.5 data	75
44	Number of properties at risk of flooding, from rivers and sea, 2019	76
45	Availability of public green spaces, m2 per capita (or ha per 10,000 population), 2019	77
46	ONS Classification of Local Authorities, rural/urban, 2011	78
47	Productivity. GVA per hour worked (£), 2017 (LEPs) and 2016 (LADs)	85
48	Balanced (total) GVA (£ million), all industries, 2016	86
49	Business population (number of local units), all sectors, 2018	87
50	Business demography, net change (births - deaths), number of firms 2017	88
51	Business start-ups (firms per 10k population), 2017	89
52	Private sector jobs (number of jobs), 2015	90
53	Start-up 3-year Survival Rates (%), 2014-2017	91
54	Start-ups reaching £1m turnover (%), 2014-2017	92
55	Survivors reaching £3m turnover (%), 2014-2017	93
56	High Growth Firms (%), 2014-2017	94
57	Percentage of firms undertaking product or service innovation (%), 2019	95
58	Percentage of firms undertaking process innovation (%), 2019	96
59	Value of sub-regional imports (million £), NUTS3 2017	97
60	Number of importing businesses (business counts), NUTS3 2017	101
61	Value of sub-regional exports (million £), NUTS3 2017	105
62	Number of exporting businesses (business counts), NUTS3 2017	109
63	Regionalised estimates of Great Britain service exports (million £), NUTS3 2016	113
64	Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017)	117
65	Location Quotient in terms of Employees, five sectors with highest LQ by LEP (2017)	122
66	R&D Business Expenditure (million £) NUTS1, 2017	126
67	Manufacturing R&D expenditure of UK businesses, (million £) NUTS1 total business sector and broad manufacturing sector breakdowns, 2017	126
68	R&D Expenditure (% of GDP), businesses NUTS2, 2016	128
69	Percentage of firms undertaking R&D (%), 2019	129
70	Number of active grants from UK Research councils and Innovate UK (number of grants), 2018 . . .	130
71	Value of grant funding in national programmes (£), 2017	131
72	Value of grant funding in international programmes (£), 2017	132
73	Number of research organisations and facilities (nr of organisations), 2018	133
74	Staff in Higher Education Institutions (researchers), 2017	135
75	Proportion of the workforce employed in SOC2010 codes 21 (Science, Engineering and Technology Professionals) or 31 (Science, Engineering and Technology Associate Professionals)	136
76	Cumulative patent portfolio of HE institutions (number), 2017	137
77	Intellectual property income (£), 2017	138
78	Income from contract research (£), 2017	139
79	Number of active firms, all categories of spin-offs (number of firms)	140
80	Social, community and cultural engagement carried out by HEIs. Total number of attendees, all events, 2017	141
81	Income from regeneration and development programmes	142

Introduction

Aims and objectives of the study

BEIS has commissioned Technopolis and the Enterprise Research Centre (ERC) to undertake a comprehensive assessment of economic performance across a range of indicators aligned with the Industrial Strategy and suited to the geographies of UK Local Enterprise Partnerships. This overarching objective was carried out as a three-step process, consisting in:

1. The development of an indicator framework aligned with the pillars of the UK Industrial strategy, focusing on the best use of available information to benchmark economic performance
2. An explanation and documentation of the choices made, indicators, and relationships between them and the main dimensions of the framework, also taking stock of the existing data gaps and proposing recommendations on how monitoring can be improved in future
3. The population of the developed indicator framework with baseline data and the development of a comparative analysis report of economic performance across the LEP regions

The output of this project was released in three different deliverables:

- **An indicator handbook report (this document):** Comprising the main data and tables for each indicator, across the geographies of interest. This is a technical document intended for further analysis, to provide transparency with sources and methods, and to serve as the basis for the other deliverables.
- **A collection of LEP profiles:** Showing a subset of the indicators presented in this document in a dashboard style, focusing on each of the LEP geographies. This is a document intended for the general public.
- **A LEP Outlook report:** Where we provide a comparative analysis of economic performance across the LEP regions, across the indicators presented. This is a document intended for the general public.

LEP Outlook 2019 Indicator Framework

This indicator handbook follows the Indicator Framework developed for the 2019 edition of the BEIS LEP Economic Outlook. The framework covers the following dimensions across the UK Industrial Strategy foundations (Figure 1). The indicator framework was developed in an iterative process of stakeholder consultation and delivery with the project's steering group. The indicator framework for the 2019 LEP Outlook comprises more than 80 indicators, calculated for LEP geographies and underlying LADs (Local Authority Districts), whenever possible.

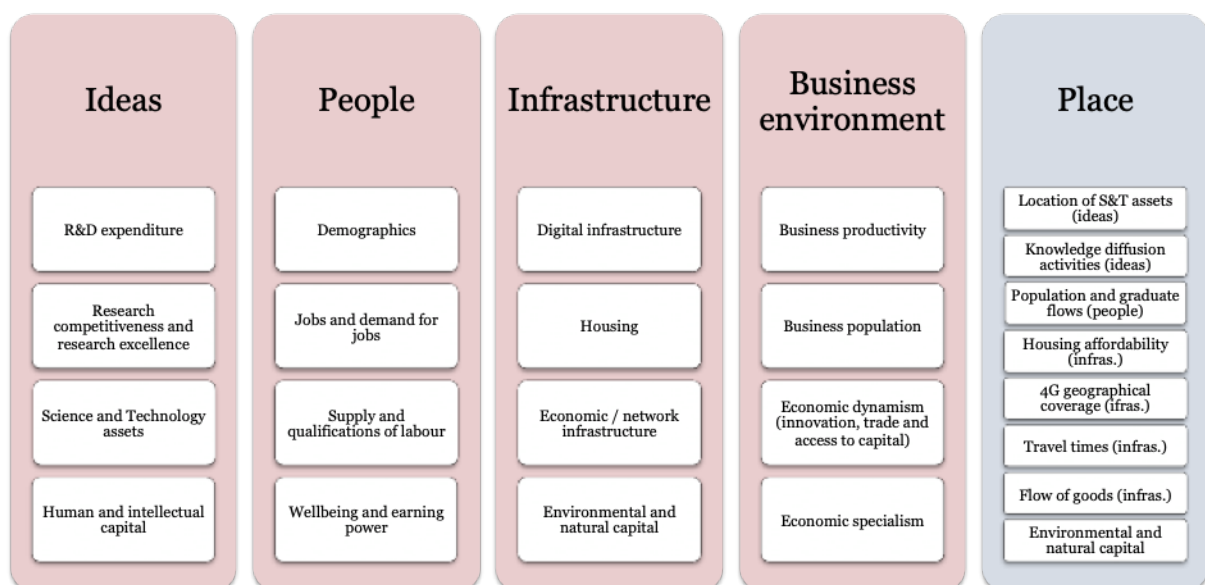


Figure 1: LEP Outlook 2019 Indicator Framework Dimensions

Scope of the data, LEP definitions, and accuracy of the indicators

The scope of the datasets is the 38 LEPs included in the current ONS April 2017 definition. Values for England are included as a comparator. The methodology used has taken into account that an updated configuration for different LEPs is being discussed, and that some LEP definitions are subject to change in the near future (for example by removing overlaps, possible mergers, etc.).

As a result, the data linking and calculation of indicators has been implemented in a way that allows for easy reuse and update. **For the purposes of this report however, the new LEP configurations are considered “official” when the new LEP geography definitions are updated in the ONS Open Geography portal¹.**

Notwithstanding these provisions, historical data can only be recompiled with the new LEP configurations to the extent that the underlying datasets report it a lower level of aggregation (so that it can be reaggregated following the new definitions). Every time there is a change in the geography there is a break in the data series, which is why stabilising the LEP geographies is important for robust data reporting in the future.

For the purposes of this report, we have used historical figures as reported by the different data providers, and where specific indicators are marked as National Statistics by the data providers, the study team considers these sources canonical.

¹<http://geoportal.statistics.gov.uk/>

How to use this indicator handbook

This handbook / almanac presents the results of each indicator across the geographies available in each underlying dataset. It also provides the indicator description, source and notes or links to the methodological caveats of each data source used. In absence of LEP-level data and where possible and sensible, LAD-level data has been reaggregated to also provide figures at LEP-level, using a variety of denominators (e.g. population, premises, surface area, etc.). There are two versions of this handbook, one with long, LAD-level tables and a more abridged one with mostly LEP-level tables (where many of the indicator tables fit in a single page).

For each indicator, we have computed different metrics and growth rates, to allow the reader to put the results in context (across LEPs and within the evolution of a single LEP geography). Figure 2 below shows an example of how tables with the indicators are presented.

Table 7: Unemployment rate, 2017 - aged 16+ (%)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	4.5			-40.8	-15.1	-10.0	-5.7	-17.2	-15.8
E37000001	Black Country	6.9	2.28	153.3	-39.5	-22.5	-8.0	-15.7	-7.3	-15.8
E08000028	Sandwell	8.4	2.01	121.7	-29.4	7.7	-7.7	16.7	-27.8	-9.2
E08000031	Wolverhampton	8.0	1.80	115.9	-35.5	-28.6	-5.9	-24.1	-11.1	1.6
E08000030	Walsall	5.9	0.66	85.5	-50.0	-34.4	7.3	-38.9	13.9	-33.1
E08000027	Dudley	5.3	0.34	76.8	-45.9	-32.9	-22.1	-13.9	6.8	-24.5
E37000034	Tees Valley	6.9	2.28	153.3	-36.7	-19.8	6.2	-24.4	-14.9	-7.3
E06000001	Hartlepool	11.5	3.68	166.7	-25.3	13.9	12.7	1.0	-15.8	-22.1
E06000002	Middlesbrough	7.5	1.53	108.7	-42.7	-38.0	8.7	-43.0	-12.3	5.3
E06000003	Redcar and Cleveland	6.1	0.92	99.8	-12.1	-22.0	-1.5	-10.2	-10.8	-17.7

Figure 2: A table from the handbook

For each indicator in the 2019 LEP Outlook framework we have calculated the following metrics:

- **Value:** The last value of the indicator, for the latest year available in the dataset. The year and units of the indicator are mentioned in the table caption, whereas any notes or methodological caveats are mentioned or discussed in the table footnote or as introduction to the table
- **Percentage of the parent geography total:** This is the proportion of the value of the indicator with respect to the total of the parent geography. For LADs this will be the percentage with respect to the LEP, and for LEPs this will be the percentage with respect to the value for England. This has two possible interpretations: If the value of the indicator is a count (e.g. population), the percentage of parent total reflects the part of the whole in the parent geography. If the value of the indicator is a percentage or a rate (e.g. Unemployment), the percentage of parent total will present how that compares to the value for England as a whole (e.g. the unemployment rate for LEP “A” being 120% that of England).
- **Z-score:** The Z-score measures the value’s relationship to the the values of other geographies at the same level (i.e. how many standard deviations a particular data point differs from the mean value of what is being observed or measured). This allows the reader to know how much an indicator from a particular geography stands out from other geographies at the same level.

If the original dataset contains historical information, the indicator tables provide different measures of growth rates that allow the reader to review the information in rate-of-change terms. This rate of change information focuses on the latest 5 years of data, and allows to focus the analysis on the evolution of LEP areas over time, rather than on benchmarking areas against others. Each LEP geography will have its own strengths and weaknesses, and it is important to always triangulate the information gathered from indicators with the local knowledge and narratives of growth and productivity.

The information on growth rates, and the way it has been presented allows the reader to spot changing trends across multiple indicators. For example, one might want to investigate how indicators about changes in working population, migration flows, and housing supply relate to jobs, working conditions and housing affordability. This way of looking at the indicators allows the reader to use this resource to craft a narrative of his or her geography of interest, supported by the data.

The following growth rate metrics have been included, whenever possible:

- **Year-over-year growth rates (%)**, going back to a maximum of 5 years from the latest data point of the value. For example, for values in 2018, the Year over year growth rates (y-1, y-2, y-3, y-4) give the growth rates for (2018-17, 2017-16, 2016-15, and 2015-14).
- **% growth over the last two, three, and five years**, counting from the latest year available in the dataset (2yrs, 3yrs, 5yrs). In datasets where Year-over-year growth rates are very volatile, growth rates over multiple years smooth out some of this volatility and allow for better trend identification.

These data are the basis for the other deliverables of the LEP Outlook, namely the LEP Profiles (where some of these data are visualised in a standardised format for each of the LEP geographies), and the LEP Outlook Report (where we present a descriptive analysis of the indicator results across England).

People

Demographics

Population Stock

Population

Table 1: Population, 2017 (number of people)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	55,619,430			3.3	1.5	0.6	0.9	0.9	0.8
E37000023	London	8,825,001	5.03	15.9	4.8	1.8	0.6	1.2	1.5	1.4
E37000030	South East	4,204,890	1.82	7.6	3.7	1.7	0.7	1.0	0.9	1.1
E37000020	Leeds City Region	3,063,074	1.03	5.5	2.5	1.2	0.5	0.7	0.7	0.5
E37000015	Greater Manchester	2,798,799	0.84	5.0	3.1	1.6	0.6	1.0	0.9	0.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	2,196,060	0.42	3.9	2.9	1.6	0.8	0.8	0.6	0.6
E37000012	Greater Birmingham and Solihull	2,031,281	0.31	3.7	3.1	1.6	0.7	1.0	0.7	0.7
E37000004	Coast to Capital	2,027,861	0.31	3.6	3.3	1.5	0.5	0.9	0.9	0.9
E37000041	South East Midlands	2,016,952	0.30	3.6	5.1	2.3	0.9	1.4	1.4	1.3
E37000025	North East	1,972,230	0.27	3.5	1.4	0.8	0.3	0.5	0.2	0.4
E37000040	Sheffield City Region	1,866,055	0.19	3.4	2.3	1.2	0.6	0.6	0.6	0.5
E37000016	Heart of the South West	1,740,683	0.11	3.1	3.2	1.6	0.8	0.8	0.8	0.8
E37000010	Enterprise M3	1,698,499	0.08	3.1	2.4	1.0	0.3	0.7	0.7	0.7
E37000042	Greater Cambridge and Greater Peterborough	1,673,780	0.06	3.0	3.7	1.5	0.8	0.7	1.0	1.2
E37000024	New Anglia	1,655,368	0.05	3.0	3.1	1.4	0.8	0.6	0.8	0.9
E37000029	Solent	1,612,170	0.02	2.9	3.0	1.4	0.6	0.8	0.8	0.7
E37000022	Liverpool City Region	1,544,420	-0.03	2.8	2.0	1.1	0.4	0.7	0.5	0.4
E37000019	Lancashire	1,490,497	-0.07	2.7	1.5	0.9	0.4	0.5	0.4	0.2
E37000001	Black Country	1,186,098	-0.28	2.1	3.0	1.7	0.8	0.9	0.6	0.6
E37000017	Hertfordshire	1,180,934	-0.28	2.1	3.5	1.3	0.4	0.9	1.0	1.2
E37000039	York, North Yorkshire and East Riding	1,157,857	-0.30	2.1	1.3	0.8	0.3	0.5	0.3	0.2
E37000037	West of England	1,139,791	-0.31	2.0	4.3	1.9	0.7	1.1	1.3	1.0
E37000032	Stoke-on-Trent and Staffordshire	1,126,203	-0.32	2.0	1.7	1.1	0.5	0.6	0.3	0.3
E37000014	Greater Lincolnshire	1,082,291	-0.35	1.9	2.8	1.4	0.6	0.8	0.6	0.8
E37000021	Leicester and Leicestershire	1,043,752	-0.38	1.9	4.8	2.6	1.3	1.2	1.2	1.0
E37000018	Humber	929,854	-0.46	1.7	0.9	0.5	0.1	0.4	0.1	0.2
E37000003	Cheshire and Warrington	926,536	-0.46	1.7	1.9	1.0	0.5	0.5	0.4	0.5
E37000006	Coventry and Warwickshire	924,711	-0.46	1.7	5.3	2.8	1.4	1.4	1.3	1.1
E37000035	Thames Valley Berkshire	905,813	-0.47	1.6	3.1	1.3	0.5	0.9	0.9	0.9
E37000009	Dorset	770,689	-0.57	1.4	2.2	1.1	0.4	0.6	0.6	0.5
E37000033	Swindon and Wiltshire	716,406	-0.61	1.3	3.2	1.5	0.8	0.7	0.8	1.0
E37000036	The Marches	684,268	-0.63	1.2	3.0	1.8	1.0	0.8	0.6	0.6
E37000027	Oxfordshire	682,444	-0.63	1.2	2.8	1.3	0.6	0.7	0.6	0.8
E37000034	Tees Valley	672,497	-0.64	1.2	1.0	0.6	0.2	0.4	0.2	0.2
E37000011	Gloucestershire	628,139	-0.67	1.1	3.7	1.7	0.8	0.9	0.9	1.0
E37000038	Worcestershire	588,370	-0.70	1.1	2.8	1.6	0.8	0.8	0.5	0.6
E37000005	Cornwall and Isles of Scilly	563,608	-0.71	1.0	3.6	2.0	1.1	0.9	0.8	0.8
E37000002	Buckinghamshire Thames Valley	535,918	-0.73	1.0	4.0	1.7	0.5	1.1	1.2	1.0
E37000007	Cumbria	498,375	-0.76	0.9	0.0	0.0	-0.1	0.0	0.0	0.0

Source:

NOMIS. Population Estimates - local authority based by single year of age. Available at: <https://www.nomisweb.co.uk/>

Working age population

Table 2: Working age population, 2017, 16-64 years old (number of people)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	34,950,948			1.7	0.8	0.3	0.5	0.6	0.4
E37000023	London	5,973,028	5.17	17.1	3.8	1.2	0.3	0.9	1.3	1.2
E37000030	South East	2,552,371	1.62	7.3	2.2	1.0	0.4	0.6	0.5	0.7
E37000020	Leeds City Region	1,927,537	0.97	5.5	0.8	0.5	0.1	0.4	0.4	0.0
E37000015	Greater Manchester	1,786,161	0.82	5.1	1.9	1.1	0.4	0.7	0.6	0.1
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	1,381,552	0.40	4.0	1.5	0.9	0.4	0.5	0.3	0.2
E37000012	Greater Birmingham and Solihull	1,273,876	0.29	3.6	2.3	1.4	0.5	0.9	0.6	0.4
E37000041	South East Midlands	1,260,884	0.28	3.6	3.0	1.3	0.4	0.9	0.9	0.7
E37000004	Coast to Capital	1,258,980	0.27	3.6	2.0	0.9	0.2	0.7	0.6	0.5
E37000025	North East	1,243,013	0.26	3.6	-0.4	-0.1	-0.1	0.0	-0.2	-0.2
E37000040	Sheffield City Region	1,172,309	0.18	3.4	1.1	0.7	0.3	0.4	0.4	0.1
E37000010	Enterprise M3	1,038,306	0.04	3.0	0.7	0.1	-0.1	0.2	0.3	0.2
E37000016	Heart of the South West	1,030,699	0.04	2.9	1.0	0.5	0.3	0.2	0.3	0.2
E37000042	Greater Cambridge and Greater Peterborough	1,023,993	0.03	2.9	1.3	0.4	0.3	0.1	0.4	0.5
E37000029	Solent	995,332	0.00	2.8	1.6	0.8	0.3	0.6	0.5	0.2
E37000024	New Anglia	977,832	-0.02	2.8	0.9	0.4	0.3	0.1	0.3	0.2
E37000022	Liverpool City Region	976,473	-0.02	2.8	0.4	0.3	-0.1	0.3	0.3	-0.1
E37000019	Lancashire	914,433	-0.08	2.6	-0.3	0.1	0.1	0.0	0.0	-0.4
E37000017	Hertfordshire	740,327	-0.27	2.1	2.2	0.7	0.0	0.7	0.7	0.8
E37000037	West of England	734,366	-0.27	2.1	3.8	1.7	0.7	1.1	1.3	0.7
E37000001	Black Country	729,943	-0.28	2.1	1.8	1.2	0.5	0.7	0.4	0.2
E37000039	York, North Yorkshire and East Riding	696,475	-0.31	2.0	-1.2	-0.3	-0.2	-0.1	-0.3	-0.5
E37000032	Stoke-on-Trent and Staffordshire	695,381	-0.31	2.0	-0.2	0.4	0.2	0.2	-0.2	-0.3
E37000021	Leicester and Leicestershire	664,246	-0.34	1.9	3.6	2.1	1.2	0.9	1.0	0.5
E37000014	Greater Lincolnshire	649,702	-0.36	1.9	0.6	0.4	0.1	0.3	0.0	0.2
E37000006	Coventry and Warwickshire	586,160	-0.43	1.7	5.0	2.8	1.4	1.4	1.3	0.7
E37000035	Thames Valley Berkshire	574,566	-0.44	1.6	1.3	0.4	0.0	0.4	0.5	0.3
E37000018	Humber	568,655	-0.44	1.6	-1.5	-0.7	-0.4	-0.2	-0.4	-0.4
E37000003	Cheshire and Warrington	564,093	-0.45	1.6	-0.5	-0.2	-0.1	-0.1	-0.1	-0.2
E37000009	Dorset	453,015	-0.56	1.3	0.1	0.2	0.0	0.2	0.2	-0.2
E37000033	Swindon and Wiltshire	439,251	-0.58	1.3	1.0	0.4	0.4	0.0	0.3	0.3
E37000027	Oxfordshire	431,024	-0.59	1.2	1.0	0.4	0.2	0.3	0.2	0.4
E37000034	Tees Valley	415,551	-0.60	1.2	-1.0	-0.3	-0.3	0.1	-0.3	-0.5
E37000036	The Marches	412,585	-0.61	1.2	1.0	0.8	0.5	0.4	0.1	0.0
E37000011	Gloucestershire	383,204	-0.64	1.1	1.5	0.7	0.4	0.3	0.5	0.3
E37000038	Worcestershire	353,496	-0.67	1.0	0.1	0.4	0.3	0.1	-0.2	-0.2
E37000005	Cornwall and Isles of Scilly	330,285	-0.69	0.9	1.2	1.0	0.7	0.3	0.2	-0.1
E37000002	Buckinghamshire Thames Valley	326,628	-0.70	0.9	2.3	0.9	0.1	0.8	0.8	0.6
E37000007	Cumbria	297,655	-0.73	0.9	-2.7	-1.3	-0.6	-0.7	-0.6	-0.8

Source:

NOMIS. Population Estimates - local authority based by single year of age. Available at: <https://www.nomisweb.co.uk/>

Aged dependency ratio

Table 3: Aged dependency ratio, 2017, 64+ over working population 16-64 years old (%)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	18.03			4.4	1.7	0.9	0.9	1.0	1.6
E37000009	Dorset	24.76	1.84	137.3	4.7	1.8	0.9	0.9	1.1	1.7
E37000005	Cornwall and Isles of Scilly	24.48	1.74	135.7	5.7	2.1	0.9	1.2	1.4	2.1
E37000007	Cumbria	23.79	1.50	131.9	7.4	2.9	1.2	1.7	1.8	2.5
E37000016	Heart of the South West	23.78	1.50	131.9	5.5	2.4	1.1	1.3	1.3	1.8
E37000024	New Anglia	23.53	1.41	130.5	5.4	2.2	0.9	1.3	1.2	1.9
E37000039	York, North Yorkshire and East Riding	23.32	1.33	129.3	7.7	3.0	1.4	1.6	1.9	2.6
E37000014	Greater Lincolnshire	22.29	0.97	123.6	5.5	2.2	1.0	1.2	1.5	1.7
E37000038	Worcestershire	22.20	0.94	123.1	7.4	2.7	1.2	1.5	1.9	2.7
E37000036	The Marches	22.13	0.91	122.7	7.2	2.8	1.4	1.4	1.7	2.5
E37000003	Cheshire and Warrington	21.06	0.53	116.8	7.0	2.7	1.2	1.6	1.6	2.4
E37000011	Gloucestershire	21.05	0.53	116.7	6.0	2.4	1.2	1.3	1.5	1.9
E37000018	Humber	20.63	0.38	114.4	6.6	2.7	1.2	1.4	1.6	2.2
E37000029	Solent	20.50	0.33	113.7	4.8	1.8	0.9	0.9	1.1	1.8
E37000032	Stoke-on-Trent and Staffordshire	20.34	0.28	112.8	6.3	2.2	1.0	1.2	1.7	2.4
E37000030	South East	20.27	0.25	112.4	4.0	1.3	0.6	0.8	1.0	1.6
E37000010	Enterprise M3	19.79	0.08	109.7	5.5	2.3	1.1	1.1	1.2	2.0
E37000042	Greater Cambridge and Greater Peterborough	19.79	0.08	109.7	5.5	2.3	1.0	1.2	1.4	1.7
E37000019	Lancashire	19.77	0.08	109.7	5.3	1.9	0.8	1.1	1.3	2.1
E37000025	North East	19.69	0.05	109.2	5.8	2.4	1.1	1.3	1.4	2.0
E37000033	Swindon and Wiltshire	19.28	-0.10	106.9	7.0	2.9	1.2	1.7	1.7	2.3
E37000004	Coast to Capital	19.10	-0.17	105.9	3.7	1.4	0.8	0.7	0.7	1.5
E37000040	Sheffield City Region	18.98	-0.20	105.3	4.1	1.4	0.6	0.9	0.9	1.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	18.92	-0.23	104.9	4.8	1.8	0.7	1.0	1.1	1.8
E37000034	Tees Valley	18.82	-0.26	104.3	5.8	2.3	1.2	1.0	1.2	2.3
E37000022	Liverpool City Region	18.67	-0.32	103.5	4.1	1.7	0.8	0.9	0.8	1.6
E37000002	Buckinghamshire Thames Valley	18.55	-0.36	102.9	4.2	1.8	0.9	0.8	0.7	1.6
E37000027	Oxfordshire	18.05	-0.54	100.1	6.6	2.7	1.2	1.5	1.8	2.0
E37000006	Coventry and Warwickshire	17.99	-0.56	99.7	1.5	0.1	0.0	0.1	0.2	1.2
E37000001	Black Country	17.44	-0.75	96.7	0.8	-0.1	-0.1	0.0	0.1	0.8
E37000037	West of England	17.36	-0.78	96.3	1.8	0.3	0.2	0.2	0.2	1.3
E37000020	Leeds City Region	17.35	-0.78	96.2	4.9	1.8	0.9	0.9	1.1	1.9
E37000021	Leicester and Leicestershire	17.32	-0.79	96.1	4.6	1.6	0.7	0.9	1.1	1.9
E37000017	Hertfordshire	16.87	-0.96	93.5	3.0	1.1	0.6	0.5	0.6	1.2
E37000041	South East Midlands	16.47	-1.10	91.3	6.2	2.6	1.4	1.2	1.4	2.1
E37000012	Greater Birmingham and Solihull	16.36	-1.14	90.7	2.9	0.8	0.4	0.4	0.8	1.3
E37000015	Greater Manchester	15.76	-1.35	87.4	2.7	0.7	0.4	0.3	0.6	1.5
E37000035	Thames Valley Berkshire	15.17	-1.56	84.1	5.6	2.7	1.5	1.2	1.0	1.9
E37000023	London	11.78	-2.76	65.3	3.2	2.0	1.2	0.7	0.4	0.9

Source: NOMIS. Population Estimates - local authority based by single year of age. Available at: <https://www.nomisweb.co.uk/>

Population Flow

Long term international migration flow

Table 4: Long-term international migration flow (inflow - outflow), 2017, all ages, number of people

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	210,570			20.4	-31.5	-30.2
E37000023	London	83,488	5.87	39.6	4.6	-33.9	-26.9
E37000012	Greater Birmingham and Solihull	9,910	0.31	4.7	139.3	3.2	-23.4
E37000030	South East	9,705	0.30	4.6	81.6	-28.8	-27.9
E37000041	South East Midlands	8,346	0.19	4.0	46.4	-30.6	-33.2
E37000020	Leeds City Region	7,920	0.16	3.8	23.0	-28.5	-25.5
E37000006	Coventry and Warwickshire	7,816	0.15	3.7	53.4	-14.7	-17.0
E37000015	Greater Manchester	7,722	0.15	3.7	60.6	-42.7	-48.7
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7,087	0.10	3.4	52.6	-5.0	-13.1
E37000040	Sheffield City Region	6,399	0.05	3.0	17.3	-25.7	-17.4
E37000004	Coast to Capital	6,044	0.02	2.9	3.2	-34.6	-38.8
E37000021	Leicester and Leicestershire	5,726	0.00	2.7	58.3	-14.3	-13.1
E37000001	Black Country	5,519	-0.02	2.6	173.8	15.6	-23.3
E37000029	Solent	4,022	-0.13	1.9	21.5	-36.9	-38.6
E37000035	Thames Valley Berkshire	3,956	-0.14	1.9	138.3	-28.7	-32.9
E37000010	Enterprise M3	3,943	-0.14	1.9	67.9	-26.5	-40.2
E37000042	Greater Cambridge and Greater Peterborough	3,869	-0.14	1.8	-0.4	-50.3	-31.8
E37000025	North East	3,712	-0.16	1.8	-31.7	-24.2	-44.8
E37000014	Greater Lincolnshire	3,400	-0.18	1.6	18.8	-27.1	-27.5
E37000032	Stoke-on-Trent and Staffordshire	3,048	-0.21	1.4	98.6	2.4	-15.8
E37000024	New Anglia	2,971	-0.21	1.4	7.0	-51.2	-31.4
E37000016	Heart of the South West	2,969	-0.21	1.4	-10.2	-39.5	-17.3
E37000017	Hertfordshire	2,803	-0.23	1.3	103.0	-42.0	-39.6
E37000019	Lancashire	2,248	-0.27	1.1	24.4	-40.7	-42.5
E37000027	Oxfordshire	2,176	-0.27	1.0	23.9	-40.3	-46.6
E37000022	Liverpool City Region	1,994	-0.29	0.9	-28.5	-62.2	-61.7
E37000036	The Marches	1,923	-0.29	0.9	121.0	3.2	-11.1
E37000039	York, North Yorkshire and East Riding	1,684	-0.31	0.8	-12.1	-33.0	-26.8
E37000037	West of England	1,531	-0.32	0.7	-62.3	-71.1	-47.4
E37000009	Dorset	1,526	-0.32	0.7	-12.7	-38.0	-19.6
E37000034	Tees Valley	1,447	-0.33	0.7	28.9	2.5	-43.5
E37000038	Worcestershire	1,360	-0.33	0.6	46.6	3.7	-20.9
E37000018	Humber	1,281	-0.34	0.6	-5.3	-47.5	-45.7
E37000002	Buckinghamshire Thames Valley	1,023	-0.36	0.5	365.0	-31.0	-40.6
E37000033	Swindon and Wiltshire	777	-0.38	0.4	22.4	-39.8	-44.5
E37000011	Gloucestershire	691	-0.38	0.3	8.1	-35.7	-19.2
E37000005	Cornwall and Isles of Scilly	130	-0.43	0.1	-71.0	-74.3	-72.0
E37000007	Cumbria	-135	-0.45	-0.1	-208.0	-139.5	-129.0
E37000003	Cheshire and Warrington	-265	-0.46	-0.1	-238.0	-137.4	-126.1

Source: NOMIS. Population Estimates - local authority based by single year of age. Available at: <https://www.nomisweb.co.uk/>

Internal Migration (within the UK)

Annual mid-year inflow and outflows of internal migration moves into and out of each local authority in England and Wales, including moves to and from Scotland and Northern Ireland (number of people). This indicator has been reconstructed from the original microdata. The number of internal migration moves within each flow are not integers. This is because of the various scaling processes used to compute the microdata. A more detailed methodology is available here: <https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationestimates/methodologies/methodologyguideformid2015ukpopulationestimatesenglandandwalesjune2016>

Table 5: Migration. Internal migration (within the UK) 2017, all ages, number of people

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	635,220.73			45.0	34.2	18.3
E37000030	South East	16,863.96	0.86	2.7	-10.0	-5.7	-19.0
E37000016	Heart of the South West	14,804.83	0.75	2.3	88.8	29.1	18.0
E37000024	New Anglia	10,634.18	0.54	1.7	47.9	38.8	17.3
E37000005	Cornwall and Isles of Scilly	8,085.25	0.41	1.3	132.7	52.4	40.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7,890.86	0.40	1.2	230.9	84.4	32.6
E37000021	Leicester and Leicestershire	6,063.41	0.31	1.0	17,323.6	128.1	158.0
E37000014	Greater Lincolnshire	5,848.11	0.30	0.9	102.5	223.9	63.1
E37000036	The Marches	5,558.99	0.28	0.9	213.5	102.7	85.8
E37000039	York, North Yorkshire and East Riding	5,518.31	0.28	0.9	48.1	56.2	6.4
E37000037	West of England	5,230.53	0.27	0.8	55.4	-6.1	-15.0
E37000003	Cheshire and Warrington	4,882.23	0.25	0.8	144.3	60.4	73.2
E37000038	Worcestershire	4,841.53	0.25	0.8	105.9	88.1	41.2
E37000011	Gloucestershire	4,706.32	0.24	0.7	108.4	8.1	9.7
E37000029	Solent	4,665.51	0.24	0.7	182.8	29.0	-2.5
E37000025	North East	4,457.83	0.23	0.7	594.3	133.9	66.6
E37000019	Lancashire	4,438.11	0.23	0.7	-365.6	1,137.8	237.2
E37000009	Dorset	4,136.32	0.21	0.7	38.5	-1.6	-14.2
E37000033	Swindon and Wiltshire	3,991.75	0.20	0.6	72.4	73.7	74.0
E37000006	Coventry and Warwickshire	3,813.18	0.19	0.6	-563.3	159.0	102.7
E37000042	Greater Cambridge and Greater Peterborough	3,215.49	0.16	0.5	-7.9	71.4	68.3
E37000004	Coast to Capital	2,876.97	0.15	0.5	-62.0	-37.4	-37.1
E37000022	Liverpool City Region	2,866.30	0.15	0.5	-239.3	82.7	-6.1
E37000032	Stoke-on-Trent and Staffordshire	2,453.14	0.13	0.4	159.1	-899.4	103.4
E37000040	Sheffield City Region	1,629.98	0.08	0.3	-148.7	-464.9	360.0
E37000007	Cumbria	1,467.59	0.07	0.2	-8,285.1	88.9	236.7
E37000018	Humber	1,141.73	0.06	0.2	-183.4	-185.1	83.2
E37000041	South East Midlands	277.26	0.01	0.0	-95.4	-95.9	-94.7
E37000015	Greater Manchester	-377.55	-0.02	-0.1	-93.1	-43.1	9.4
E37000034	Tees Valley	-616.67	-0.03	-0.1	-54.3	-46.4	-18.0
E37000027	Oxfordshire	-774.15	-0.04	-0.1	16.6	-72.0	-67.6
E37000002	Buckinghamshire Thames Valley	-954.45	-0.05	-0.2	-170.8	-143.2	-197.5
E37000010	Enterprise M3	-2,106.89	-0.11	-0.3	-163.6	-362.8	38.2
E37000001	Black Country	-2,147.74	-0.11	-0.3	2.9	-5.6	13.1
E37000020	Leeds City Region	-2,631.68	-0.13	-0.4	-16.2	252.5	174.2
E37000035	Thames Valley Berkshire	-4,925.99	-0.25	-0.8	433.5	42.4	13.2
E37000017	Hertfordshire	-6,220.97	-0.32	-1.0	-327.0	615.0	279.1
E37000012	Greater Birmingham and Solihull	-7,695.21	-0.39	-1.2	45.2	23.2	30.5
E37000023	London	-113,908.35	-5.81	-17.9	81.3	34.0	12.4

Source: Internal migration: detailed estimates by origin and destination local authorities, age and sex. Available at: <https://www.ons.gov.uk>

Jobs and demand for jobs

Stock of workforce

Total Jobs

The table below provides the indicator on the total number of jobs in each geography. The underlying data tables also contain information on breakdown of this total number of jobs by different SIC codes. These data will be used in other parts of the report (analytical chapter and LEP profiles).

Table 6: Total jobs, 2017 (number of jobs)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	30,323,000			10.1	3.8	1.8	1.9	3.1	2.8
E37000023	London	6,122,000	5.50	20.2	14.6	5.4	3.7	1.7	3.7	4.9
E37000030	South East	1,950,000	1.15	6.4	9.7	3.5	1.7	1.8	4.6	1.3
E37000020	Leeds City Region	1,589,000	0.77	5.2	8.7	1.7	1.5	0.1	4.8	2.1
E37000015	Greater Manchester	1,479,000	0.65	4.9	10.7	5.8	2.6	3.1	2.3	2.3
E37000041	South East Midlands	1,099,000	0.26	3.6	10.9	6.6	1.5	5.0	2.0	2.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	1,087,000	0.25	3.6	9.7	3.5	1.6	1.9	3.4	2.4
E37000012	Greater Birmingham and Solihull	1,075,000	0.23	3.5	12.2	6.4	3.5	2.9	3.6	1.8
E37000004	Coast to Capital	1,023,000	0.18	3.4	8.0	1.6	-0.7	2.3	3.5	2.7
E37000010	Enterprise M3	946,000	0.10	3.1	4.1	-3.2	-4.3	1.2	4.7	2.6
E37000042	Greater Cambridge and Greater Peterborough	939,000	0.09	3.1	14.0	7.3	3.5	3.7	2.3	3.8
E37000025	North East	916,000	0.07	3.0	8.1	2.1	3.6	-1.4	3.1	2.7
E37000016	Heart of the South West	893,000	0.04	2.9	7.6	1.7	0.0	1.7	3.8	1.9
E37000040	Sheffield City Region	856,000	0.00	2.8	8.8	2.1	1.2	1.0	3.2	3.2
E37000024	New Anglia	816,000	-0.04	2.7	7.5	3.2	0.7	2.4	1.9	2.2
E37000017	Hertfordshire	725,000	-0.13	2.4	16.2	8.2	5.2	2.8	2.6	4.6
E37000019	Lancashire	725,000	-0.13	2.4	3.4	1.8	0.1	1.7	1.0	0.6
E37000022	Liverpool City Region	720,000	-0.14	2.4	10.3	5.4	3.3	2.0	2.6	2.0
E37000037	West of England	682,000	-0.18	2.2	11.1	4.0	3.0	0.9	1.9	4.9
E37000039	York, North Yorkshire and East Riding	611,000	-0.25	2.0	7.4	1.5	-1.1	2.7	4.3	1.4
E37000035	Thames Valley Berkshire	580,000	-0.28	1.9	8.2	2.7	-1.2	3.9	3.5	1.9
E37000003	Cheshire and Warrington	570,000	-0.29	1.9	12.2	5.9	2.2	3.7	3.9	2.0
E37000032	Stoke-on-Trent and Staffordshire	541,000	-0.32	1.8	6.7	3.8	2.7	1.2	4.8	-2.0
E37000021	Leicester and Leicestershire	534,000	-0.33	1.8	9.2	2.3	-0.6	2.9	4.8	1.8
E37000006	Coventry and Warwickshire	529,000	-0.34	1.7	13.3	6.4	4.3	2.0	1.2	5.1
E37000029	Solent	528,000	-0.34	1.7	2.9	-0.2	-1.1	0.9	2.5	0.6
E37000001	Black Country	517,000	-0.35	1.7	7.0	2.6	3.2	-0.6	4.1	0.2
E37000014	Greater Lincolnshire	516,000	-0.35	1.7	11.2	5.3	1.8	3.5	2.3	3.2
E37000018	Humber	447,000	-0.42	1.5	10.6	5.2	2.8	2.4	1.7	3.5
E37000027	Oxfordshire	433,000	-0.44	1.4	8.5	3.3	1.4	1.9	2.2	2.8
E37000009	Dorset	395,000	-0.48	1.3	5.1	3.7	1.5	2.1	-0.3	1.6
E37000033	Swindon and Wiltshire	387,000	-0.49	1.3	12.8	1.8	-2.3	4.2	1.3	9.3
E37000036	The Marches	361,000	-0.51	1.2	9.4	7.8	3.1	4.5	0.6	0.9
E37000011	Gloucestershire	338,000	-0.54	1.1	4.6	-0.6	-0.6	0.0	2.1	3.1
E37000038	Worcestershire	310,000	-0.57	1.0	17.9	12.3	6.9	5.1	2.6	2.3
E37000034	Tees Valley	293,000	-0.58	1.0	2.8	-2.0	1.4	-3.3	2.4	2.5
E37000005	Cornwall and Isles of Scilly	288,000	-0.59	1.0	11.2	7.5	4.0	3.4	-0.4	3.9
E37000002	Buckinghamshire Thames Valley	285,000	-0.59	0.9	12.6	4.8	1.4	3.3	2.3	5.1
E37000007	Cumbria	270,000	-0.61	0.9	1.1	-1.1	-2.9	1.8	2.2	0.0

Source: NOMIS. Jobs density. The total number of jobs is a workplace-based measure and comprises employee jobs, self-employed, government-supported trainees and HM Forces. Available at: <https://www.nomisweb.co.uk/>

Unemployment

Table 7: Unemployment rate, 2017 - aged 16+ (%)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	4.5			-40.8	-15.1	-10.0	-5.7	-17.2	-15.8
E37000001	Black Country	6.9	2.28	153.3	-39.5	-22.5	-8.0	-15.7	-7.3	-15.8
E37000034	Tees Valley	6.9	2.28	153.3	-36.7	-19.8	6.2	-24.4	-14.9	-7.3
E37000025	North East	6.2	1.69	137.8	-36.7	-18.4	-8.8	-10.5	-7.3	-16.3
E37000012	Greater Birmingham and Solihull	6.1	1.61	135.6	-42.5	-12.9	-10.3	-2.9	-19.5	-17.9
E37000040	Sheffield City Region	5.6	1.19	124.4	-37.8	-13.8	-5.1	-9.2	-20.7	-8.9
E37000023	London	5.4	1.02	120.0	-39.3	-11.5	-6.9	-4.9	-14.1	-20.2
E37000018	Humber	5.3	0.93	117.8	-46.5	-14.5	-8.6	-6.5	-15.1	-26.3
E37000015	Greater Manchester	5.0	0.68	111.1	-44.4	-25.4	-20.6	-6.0	-14.1	-13.3
E37000022	Liverpool City Region	5.0	0.68	111.1	-49.5	-13.8	-7.4	-6.9	-38.9	-4.0
E37000014	Greater Lincolnshire	4.8	0.51	106.7	-37.7	-17.2	2.1	-19.0	11.5	-32.5
E37000021	Leicester and Leicestershire	4.8	0.51	106.7	-48.9	-7.7	4.3	-11.5	-3.7	-42.6
E37000020	Leeds City Region	4.7	0.43	104.4	-45.3	-21.7	-4.1	-18.3	-16.7	-16.3
E37000041	South East Midlands	4.7	0.43	104.4	-29.9	27.0	17.5	8.1	-24.5	-26.9
E37000032	Stoke-on-Trent and Staffordshire	4.5	0.26	100.0	-19.6	-10.0	4.7	-14.0	-10.7	0.0
E37000004	Coast to Capital	4.4	0.18	97.8	-25.4	22.2	12.8	8.3	-36.8	-3.4
E37000024	New Anglia	4.3	0.09	95.6	-34.8	2.4	10.3	-7.1	-17.6	-22.7
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	4.2	0.01	93.3	-40.0	-14.3	-2.3	-12.2	-26.9	-4.3
E37000033	Swindon and Wiltshire	4.2	0.01	93.3	-40.0	10.5	5.0	5.3	-11.6	-38.6
E37000019	Lancashire	4.1	-0.08	91.1	-36.9	-2.4	-12.8	11.9	-35.4	0.0
E37000036	The Marches	4.1	-0.08	91.1	-39.7	-8.9	-4.7	-4.4	4.7	-36.8
E37000027	Oxfordshire	4.0	-0.16	88.9	-9.1	11.1	8.1	2.8	2.9	-20.5
E37000037	West of England	3.9	-0.25	86.7	-38.1	-9.3	2.6	-11.6	-29.5	-3.2
E37000030	South East	3.8	-0.33	84.4	-46.5	-26.9	-19.1	-9.6	-13.3	-15.5
E37000038	Worcestershire	3.8	-0.33	84.4	-22.4	2.7	2.7	0.0	-11.9	-14.3
E37000039	York, North Yorkshire and East Riding	3.7	-0.41	82.2	-33.9	19.4	19.4	0.0	-27.9	-23.2
E37000006	Coventry and Warwickshire	3.6	-0.50	80.0	-41.9	20.0	-2.7	23.3	-34.8	-25.8
E37000003	Cheshire and Warrington	3.5	-0.58	77.8	-45.3	-10.3	-5.4	-5.1	8.3	-43.8
E37000007	Cumbria	3.4	-0.67	75.6	-37.0	-10.5	-19.0	10.5	-32.1	3.7
E37000029	Solent	3.4	-0.67	75.6	-52.1	-30.6	-34.6	6.1	6.5	-35.2
E37000016	Heart of the South West	3.3	-0.75	73.3	-43.1	-19.5	-29.8	14.6	-19.6	-12.1
E37000017	Hertfordshire	3.1	-0.92	68.9	-41.5	0.0	-18.4	22.6	-31.1	-15.1
E37000009	Dorset	3.0	-1.00	66.7	-41.2	-11.8	-23.1	14.7	-29.2	-5.9
E37000005	Cornwall and Isles of Scilly	2.9	-1.09	64.4	-48.2	-47.3	-23.7	-30.9	7.8	-8.9
E37000011	Gloucestershire	2.9	-1.09	64.4	-45.3	-21.6	-37.0	24.3	-36.2	9.4
E37000035	Thames Valley Berkshire	2.9	-1.09	64.4	-37.0	-23.7	-19.4	-5.3	-13.6	-4.3
E37000042	Greater Cambridge and Greater Peterborough	2.9	-1.09	64.4	-47.3	-37.0	-19.4	-21.7	0.0	-16.4
E37000010	Enterprise M3	2.1	-1.76	46.7	-52.3	-41.7	-36.4	-8.3	-16.3	-2.3
E37000002	Buckinghamshire Thames Valley	1.9	-1.93	42.2	-59.6	-50.0	-42.4	-13.2	-9.5	-10.6

Source: NOMIS. Annual Population Survey - Headline indicators. Available at: <https://www.nomisweb.co.uk/>

Self employed

Table 8: Percentage in employment who are self employed - aged 16+, 2017 (%)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	10.9			10.1	4.8	0.9	3.8	1.0	4.0
E37000005	Cornwall and Isles of Scilly	17.6	3.15	161.5	24.8	14.3	8.0	5.8	-8.9	19.9
E37000002	Buckinghamshire Thames Valley	15.9	2.38	145.9	44.5	42.0	12.8	25.9	-0.9	2.7
E37000023	London	13.5	1.30	123.9	16.4	6.3	0.0	6.3	-1.6	11.2
E37000036	The Marches	13.5	1.30	123.9	11.6	16.4	9.8	6.0	-4.1	0.0
E37000016	Heart of the South West	13.0	1.07	119.3	6.6	-5.1	9.2	-13.1	13.2	-0.8
E37000004	Coast to Capital	12.6	0.89	115.6	3.3	-3.8	-7.4	3.8	3.1	4.1
E37000030	South East	12.5	0.85	114.7	11.6	8.7	-3.8	13.0	0.9	1.8
E37000017	Hertfordshire	12.1	0.67	111.0	2.5	12.0	1.7	10.2	-8.5	0.0
E37000038	Worcestershire	11.5	0.40	105.5	18.6	-1.7	8.5	-9.4	7.3	12.4
E37000039	York, North Yorkshire and East Riding	11.5	0.40	105.5	4.5	-5.0	-5.7	0.8	2.5	7.3
E37000027	Oxfordshire	11.3	0.31	103.7	-1.7	14.1	-8.9	25.3	-6.6	-7.8
E37000035	Thames Valley Berkshire	11.3	0.31	103.7	15.3	9.7	15.3	-4.9	2.0	3.1
E37000009	Dorset	11.2	0.26	102.8	-11.1	6.7	0.9	5.7	-8.7	-8.7
E37000011	Gloucestershire	11.2	0.26	102.8	1.8	-11.8	3.7	-15.0	2.4	12.7
E37000033	Swindon and Wiltshire	11.1	0.22	101.8	0.0	5.7	-3.5	9.5	0.0	-5.4
E37000010	Enterprise M3	10.9	0.13	100.0	-6.8	-16.8	-6.0	-11.4	12.0	0.0
E37000024	New Anglia	10.9	0.13	100.0	4.8	4.8	3.8	1.0	-5.5	5.8
E37000003	Cheshire and Warrington	10.7	0.04	98.2	3.9	12.6	7.0	5.3	1.1	-8.7
E37000037	West of England	10.7	0.04	98.2	13.8	3.9	-3.6	7.8	1.0	8.5
E37000042	Greater Cambridge and Greater Peterborough	10.6	-0.01	97.2	11.6	8.2	-2.8	11.2	-9.3	13.7
E37000006	Coventry and Warwickshire	10.5	-0.05	96.3	9.4	11.7	23.5	-9.6	-6.9	5.2
E37000041	South East Midlands	10.3	-0.14	94.5	1.0	2.0	-4.6	6.9	2.0	-2.9
E37000007	Cumbria	10.1	-0.23	92.7	-21.1	-8.2	-9.0	0.9	-4.3	-10.2
E37000020	Leeds City Region	9.6	-0.46	88.1	7.9	1.1	-1.0	2.1	8.0	-1.1
E37000014	Greater Lincolnshire	9.4	-0.55	86.2	23.7	1.1	1.1	0.0	6.9	14.5
E37000029	Solent	9.4	-0.55	86.2	0.0	-6.9	-6.0	-1.0	5.2	2.1
E37000012	Greater Birmingham and Solihull	9.3	-0.60	85.3	5.7	13.4	14.8	-1.2	10.8	-15.9
E37000015	Greater Manchester	9.1	-0.69	83.5	7.1	5.8	0.0	5.8	-2.3	3.5
E37000032	Stoke-on-Trent and Staffordshire	9.1	-0.69	83.5	-10.8	8.3	-9.0	19.0	10.5	-25.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	8.9	-0.78	81.7	17.1	9.9	-1.1	11.1	-2.4	9.2
E37000019	Lancashire	8.8	-0.82	80.7	-4.3	-6.4	-13.7	8.5	-1.1	3.3
E37000022	Liverpool City Region	8.5	-0.96	78.0	14.9	13.3	25.0	-9.3	5.6	-4.1
E37000040	Sheffield City Region	8.4	-1.00	77.1	13.5	7.7	-10.6	20.5	0.0	5.4
E37000018	Humber	8.2	-1.09	75.2	15.5	7.9	7.9	0.0	-5.0	12.7
E37000021	Leicester and Leicestershire	8.1	-1.14	74.3	3.8	-5.8	-12.9	8.1	2.4	7.7
E37000025	North East	8.1	-1.14	74.3	19.1	8.0	14.1	-5.3	4.2	5.9
E37000001	Black Country	7.5	-1.41	68.8	23.0	5.6	4.2	1.4	7.6	8.2
E37000034	Tees Valley	6.7	-1.77	61.5	-1.5	-9.5	-10.7	1.4	1.4	7.4

Source: NOMIS. Annual Population Survey - Self employed, employees and non-permanent employment. Available at: <https://www.nomisweb.co.uk/>

Non-permanent employment

Table 9: Percentage of all aged 16+ in employment in non-permanent employment, 2018 (%)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	4.9			-7.5	-3.9	-3.9	0.0	-3.8	0.0
E37000027	Oxfordshire	7.3	2.81	149.0	32.7	23.7	1.4	22.0	-14.5	25.5
E37000021	Leicester and Leicestershire	6.4	1.84	130.6	-7.2	12.3	-3.0	15.8	-19.7	2.9
E37000040	Sheffield City Region	6.2	1.63	126.5	6.9	10.7	12.7	-1.8	-5.1	1.7
E37000002	Buckinghamshire Thames Valley	5.6	0.98	114.3	9.8	1.8	36.6	-25.5	7.8	0.0
E37000023	London	5.6	0.98	114.3	1.8	0.0	-1.8	1.8	-1.8	3.6
E37000012	Greater Birmingham and Solihull	5.5	0.87	112.2	-3.5	12.2	5.8	6.1	-12.5	-1.8
E37000037	West of England	5.5	0.87	112.2	17.0	-1.8	-5.2	3.6	3.7	14.9
E37000042	Greater Cambridge and Greater Peterborough	5.5	0.87	112.2	-15.4	-14.1	-11.3	-3.1	3.2	-4.6
E37000014	Greater Lincolnshire	5.4	0.76	110.2	0.0	20.0	-16.9	44.4	-18.2	1.9
E37000019	Lancashire	5.4	0.76	110.2	25.6	12.5	5.9	6.2	-4.0	16.3
E37000016	Heart of the South West	5.3	0.66	108.2	-22.1	-11.7	0.0	-11.7	-1.6	-10.3
E37000006	Coventry and Warwickshire	5.2	0.55	106.1	18.2	15.6	-13.3	33.3	-16.7	22.7
E37000018	Humber	5.1	0.44	104.1	-12.1	-3.8	2.0	-5.7	-13.1	5.2
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	5.0	0.33	102.0	-9.1	4.2	38.9	-25.0	-5.9	-7.3
E37000004	Coast to Capital	4.9	0.22	100.0	-9.3	0.0	-9.3	10.2	-24.6	20.4
E37000007	Cumbria	4.9	0.22	100.0	28.9	4.3	-10.9	17.0	11.9	10.5
E37000025	North East	4.9	0.22	100.0	-14.0	-23.4	-9.3	-15.6	6.7	5.3
E37000029	Solent	4.7	0.01	95.9	-11.3	-2.1	-19.0	20.8	9.1	-17.0
E37000015	Greater Manchester	4.5	-0.21	91.8	-15.1	-19.6	-21.1	1.8	0.0	5.7
E37000020	Leeds City Region	4.5	-0.21	91.8	-13.5	-6.2	-11.8	6.2	-9.4	1.9
E37000010	Enterprise M3	4.4	-0.31	89.8	-13.7	22.2	25.7	-2.8	-28.0	-2.0
E37000036	The Marches	4.4	-0.31	89.8	-22.8	-29.0	10.0	-35.5	29.2	-15.8
E37000039	York, North Yorkshire and East Riding	4.4	-0.31	89.8	-6.4	-13.7	-13.7	0.0	8.5	0.0
E37000024	New Anglia	4.3	-0.42	87.8	-10.4	-18.9	-12.2	-7.5	6.0	4.2
E37000034	Tees Valley	4.3	-0.42	87.8	-34.8	-33.8	-28.3	-7.7	10.2	-10.6
E37000041	South East Midlands	4.3	-0.42	87.8	-4.4	-10.4	-14.0	4.2	17.1	-8.9
E37000032	Stoke-on-Trent and Staffordshire	4.2	-0.53	85.7	16.7	0.0	-4.5	4.8	2.4	13.9
E37000033	Swindon and Wiltshire	4.2	-0.53	85.7	-14.3	-34.4	-22.2	-15.6	18.5	10.2
E37000030	South East	4.1	-0.64	83.7	-8.9	7.9	20.6	-10.5	-13.6	-2.2
E37000035	Thames Valley Berkshire	4.1	-0.64	83.7	-12.8	-14.6	-12.8	-2.1	17.1	-12.8
E37000005	Cornwall and Isles of Scilly	4.0	-0.75	81.6	-34.4	-21.6	14.3	-31.4	-20.3	4.9
E37000003	Cheshire and Warrington	3.9	-0.85	79.6	-22.0	0.0	-30.4	43.6	-15.2	-8.0
E37000011	Gloucestershire	3.8	-0.96	77.6	-11.6	22.6	8.6	12.9	-32.6	7.0
E37000017	Hertfordshire	3.7	-1.07	75.5	-19.6	2.8	2.8	0.0	-14.3	-8.7
E37000022	Liverpool City Region	3.7	-1.07	75.5	-32.7	-32.7	-36.2	5.5	-9.8	10.9
E37000009	Dorset	3.3	-1.50	67.3	-23.3	-25.0	26.9	-40.9	15.8	-11.6
E37000001	Black Country	3.0	-1.82	61.2	-34.8	-9.1	-9.1	0.0	-21.4	-8.7
E37000038	Worcestershire	2.8	-2.04	57.1	-12.5	-31.7	-6.7	-26.8	13.9	12.5

Source: NOMIS. Annual Population Survey - Self employed, employees and non-permanent employment. Available at: <https://www.nomisweb.co.uk/>

Jobs at risk of automation

The probability of automation has a linear relationship with the proportion of employees in high-skill jobs. As the proportion of employees in high-skill occupations increases, the probability of automation decreases. For those industries where half of the workforce or more are high-skill their probability of automation is at least under 35%.

Detailed methodology available at: <https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/employmentandemployeetypes/articles/theprobabilityofautomationinengland/2011and2017>

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011

geo code	geo name	Indicator		%growth	
		value	Zscore	%parent	2011-17
E92000001	England				
E37000001	Black Country				
E08000028	Sandwell	0.50	1.32		-0.6
E08000031	Wolverhampton	0.49	1.04		-0.8
E08000027	Dudley	0.48	0.81		-0.4
E08000030	Walsall	0.47	0.65		-5.3
E37000002	Buckinghamshire Thames Valley				
E07000004	Aylesbury Vale	0.42	-0.60		-0.2
E07000007	Wycombe	0.40	-1.08		-6.2
E07000006	South Bucks	0.36	-1.92		-10.9
E07000005	Chiltern	0.36	-2.07		-3.1
E37000003	Cheshire and Warrington				
E06000007	Warrington	0.45	-0.03		-1.6
E06000050	Cheshire West and Chester	0.44	-0.25		-9.3
E06000049	Cheshire East	0.42	-0.57		-3.6
E37000004	Coast to Capital				
E07000224	Arun	0.50	1.20		8.5
E07000226	Crawley	0.46	0.39		3.0
E07000223	Adur	0.46	0.36		4.4
E07000229	Worthing	0.45	0.10		-3.9
E07000225	Chichester	0.43	-0.36		1.5
E07000211	Reigate and Banstead	0.43	-0.42		3.5
E09000008	Croydon	0.41	-0.82		-1.8
E07000227	Horsham	0.41	-0.83		-5.9
E07000228	Mid Sussex	0.41	-0.83		-2.6
E07000063	Lewes	0.40	-1.02		-7.4
E07000215	Tandridge	0.39	-1.29		3.7
E07000210	Mole Valley	0.38	-1.54		-3.5
E06000043	Brighton and Hove	0.38	-1.57		-6.3
E07000208	Epsom and Ewell	0.35	-2.22		-7.7
E37000005	Cornwall and Isles of Scilly				
E06000052	Cornwall	0.48	0.78		1.1
E37000006	Coventry and Warwickshire				
E07000219	Nuneaton and Bedworth	0.51	1.48		3.1
E08000026	Coventry	0.48	0.70		-1.2
E07000218	North Warwickshire	0.45	-0.02		-6.7
E07000220	Rugby	0.44	-0.19		-7.3
E07000221	Stratford-on-Avon	0.41	-0.84		-13.5
E07000222	Warwick	0.41	-0.85		-4.1
E37000007	Cumbria				
E07000027	Barrow-in-Furness	0.49	0.96		-4.1
E07000028	Carlisle	0.49	0.93		-9.1
E07000029	Copeland	0.49	0.93		-2.4
E07000026	Allerdale	0.47	0.53		-10.3
E07000030	Eden	0.46	0.41		0.6
E07000031	South Lakeland	0.45	-0.01		-8.7
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire				
E07000174	Mansfield	0.57	2.83		10.1
E07000175	Newark and Sherwood	0.52	1.75		10.5
E07000170	Ashfield	0.51	1.48		2.1
E07000034	Chesterfield	0.48	0.87		10.6
E07000171	Bassetlaw	0.47	0.57		-0.8

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E06000018	Nottingham	0.47	0.48		0.3
E07000033	Bolsover	0.46	0.41		2.1
E07000038	North East Derbyshire	0.46	0.22		-4.7
E07000032	Amber Valley	0.45	0.14		-3.3
E07000172	Broxtowe	0.45	0.08		9.1
E07000036	Erewash	0.45	0.08		-3.2
E06000015	Derby	0.45	0.05		-4.2
E07000039	South Derbyshire	0.44	-0.18		-9.3
E07000037	High Peak	0.43	-0.34		-1.4
E07000173	Gedling	0.43	-0.43		-4.6
E07000035	Derbyshire Dales	0.39	-1.32		-11.6
E07000176	Rushcliffe	0.39	-1.33		5.1
E37000009	Dorset				
E07000051	Purbeck	0.50	1.21		3.9
E07000048	Christchurch	0.49	0.93		9.4
E07000053	Weymouth and Portland	0.47	0.62		-2.0
E07000049	East Dorset	0.46	0.34		-4.5
E06000028	Bournemouth	0.46	0.25		-0.3
E07000052	West Dorset	0.45	0.08		3.1
E07000050	North Dorset	0.44	-0.25		-13.4
E06000029	Poole	0.43	-0.41		-7.5
E37000010	Enterprise M3				
E07000084	Basingstoke and Deane	0.46	0.31		1.5
E07000212	Runnymede	0.45	0.11		4.8
E07000213	Spelthorne	0.45	0.00		9.5
E07000091	New Forest	0.44	-0.12		-6.5
E07000093	Test Valley	0.42	-0.51		2.0
E07000209	Guildford	0.42	-0.68		3.8
E07000089	Hart	0.41	-0.75		1.7
E07000092	Rushmoor	0.41	-0.93		-9.8
E07000085	East Hampshire	0.39	-1.28		-9.8
E07000216	Waverley	0.39	-1.40		-5.8
E07000094	Winchester	0.37	-1.73		1.2
E07000214	Surrey Heath	0.36	-1.95		-20.6
E07000207	Elmbridge	0.35	-2.23		-7.6
E07000217	Woking	0.35	-2.23		-11.8
E37000011	Gloucestershire				
E07000080	Forest of Dean	0.50	1.27		-0.4
E07000082	Stroud	0.49	0.93		10.1
E07000081	Gloucester	0.48	0.76		5.0
E07000083	Tewkesbury	0.47	0.46		10.7
E07000079	Cotswold	0.42	-0.59		-0.9
E07000078	Cheltenham	0.39	-1.24		-7.0
E37000012	Greater Birmingham and Solihull				
E07000199	Tamworth	0.51	1.58		-2.0
E07000239	Wyre Forest	0.49	1.05		1.0
E07000236	Redditch	0.49	0.96		7.9
E07000193	East Staffordshire	0.48	0.79		-7.3
E07000192	Cannock Chase	0.46	0.41		-13.0
E08000025	Birmingham	0.46	0.31		-2.7
E07000194	Lichfield	0.44	-0.25		-3.0
E07000234	Bromsgrove	0.43	-0.44		1.5
E08000029	Solihull	0.43	-0.50		-1.9
E37000014	Greater Lincolnshire				
E07000136	Boston	0.57	2.84		8.7
E07000140	South Holland	0.53	1.92		0.2
E06000012	North East Lincolnshire	0.51	1.38		0.2
E06000013	North Lincolnshire	0.49	0.91		-6.5
E07000137	East Lindsey	0.46	0.39		-0.8
E07000142	West Lindsey	0.45	0.14		-4.3
E07000141	South Kesteven	0.44	-0.18		-5.9
E07000139	North Kesteven	0.44	-0.24		-3.4
E07000138	Lincoln	0.41	-0.96		-12.8
E37000015	Greater Manchester				

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E08000005	Rochdale	0.50	1.23		2.1
E08000004	Oldham	0.49	1.09		-1.7
E08000010	Wigan	0.49	1.03		3.2
E08000008	Tameside	0.48	0.89		-1.7
E08000006	Salford	0.48	0.74		-2.0
E08000001	Bolton	0.47	0.50		-4.0
E08000003	Manchester	0.46	0.28		2.0
E08000002	Bury	0.43	-0.29		-8.1
E08000007	Stockport	0.43	-0.41		-1.2
E08000009	Trafford	0.40	-0.99		-6.2
E37000016	Heart of the South West				
E07000188	Sedgemoor	0.51	1.46		5.0
E07000046	Torridge	0.51	1.38		-7.6
E07000043	North Devon	0.50	1.22		2.7
E07000047	West Devon	0.49	1.05		9.3
E06000027	Torbay	0.47	0.57		0.1
E07000042	Mid Devon	0.47	0.56		9.6
E07000187	Mendip	0.47	0.52		-4.0
E06000026	Plymouth	0.47	0.48		-2.6
E07000189	South Somerset	0.46	0.36		-8.2
E07000045	Teignbridge	0.46	0.29		0.5
E07000190	Taunton Deane	0.46	0.26		-1.4
E07000191	West Somerset	0.45	0.10		-2.9
E07000044	South Hams	0.44	-0.17		8.9
E07000040	East Devon	0.44	-0.26		-11.7
E07000041	Exeter	0.40	-1.20		-13.6
E37000017	Hertfordshire				
E07000098	Hertsmere	0.46	0.35		9.4
E07000096	Dacorum	0.46	0.27		4.5
E07000095	Broxbourne	0.45	0.03		-6.3
E07000103	Watford	0.43	-0.29		-0.7
E07000241	Welwyn Hatfield	0.43	-0.38		-5.9
E07000099	North Hertfordshire	0.42	-0.63		-1.6
E07000240	St Albans	0.42	-0.68		10.8
E07000243	Stevenage	0.42	-0.73		-2.2
E07000242	East Hertfordshire	0.39	-1.21		-8.8
E07000102	Three Rivers	0.34	-2.59		-17.0
E37000018	Humber				
E06000012	North East Lincolnshire	0.51	1.38		0.2
E06000010	Kingston upon Hull, City of	0.50	1.17		-1.3
E06000013	North Lincolnshire	0.49	0.91		-6.5
E06000011	East Riding of Yorkshire	0.45	-0.02		-3.0
E37000019	Lancashire				
E07000127	West Lancashire	0.51	1.55		0.5
E07000123	Preston	0.50	1.35		2.3
E07000122	Pendle	0.50	1.31		1.7
E06000008	Blackburn with Darwen	0.50	1.19		-2.0
E06000009	Blackpool	0.49	1.09		-3.5
E07000126	South Ribble	0.49	1.00		5.2
E07000120	Hyndburn	0.48	0.81		-8.1
E07000117	Burnley	0.47	0.60		-0.2
E07000128	Wyre	0.47	0.48		-3.0
E07000124	Ribble Valley	0.47	0.47		-9.7
E07000121	Lancaster	0.46	0.24		-0.7
E07000118	Chorley	0.44	-0.07		-6.6
E07000119	Fylde	0.42	-0.53		-9.7
E07000125	Rossendale	0.37	-1.86		-23.6
E37000020	Leeds City Region				
E08000036	Wakefield	0.48	0.85		-7.2
E07000169	Selby	0.48	0.84		6.6
E08000032	Bradford	0.47	0.62		-5.1
E08000016	Barnsley	0.47	0.48		-8.4
E08000033	Calderdale	0.46	0.41		-1.7
E08000034	Kirklees	0.46	0.27		-4.4
E07000165	Harrogate	0.46	0.22		0.0

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E08000035	Leeds	0.44	-0.11		-4.7
E07000163	Craven	0.43	-0.28		-0.6
E06000014	York	0.42	-0.51		-7.2
E37000021	Leicester and Leicestershire				
E06000016	Leicester	0.48	0.80		-2.5
E07000133	Melton	0.48	0.76		1.2
E07000129	Blaby	0.48	0.68		-4.2
E07000132	Hinckley and Bosworth	0.46	0.28		-3.7
E07000134	North West Leicestershire	0.45	0.04		-2.7
E07000130	Charnwood	0.43	-0.35		-3.5
E07000131	Harborough	0.42	-0.62		-8.9
E07000135	Oadby and Wigston	0.41	-0.92		-11.3
E37000022	Liverpool City Region				
E08000011	Knowsley	0.50	1.13		-4.8
E06000006	Halton	0.49	1.10		-0.5
E08000013	St. Helens	0.49	0.95		2.9
E08000015	Wirral	0.46	0.27		-7.0
E08000014	Sefton	0.46	0.20		-3.7
E08000012	Liverpool	0.44	-0.11		-11.3
E37000023	London				
E09000002	Barking and Dagenham	0.47	0.61		-2.9
E09000005	Brent	0.46	0.24		-2.1
E09000004	Bexley	0.45	-0.02		-7.8
E09000025	Newham	0.45	-0.02		-3.1
E09000017	Hillingdon	0.44	-0.19		-4.2
E09000016	Havering	0.44	-0.19		-8.5
E09000009	Ealing	0.44	-0.24		6.4
E09000010	Enfield	0.43	-0.29		1.2
E09000018	Hounslow	0.43	-0.38		-0.5
E09000015	Harrow	0.41	-0.78		-3.6
E09000031	Waltham Forest	0.41	-0.78		-4.0
E09000008	Croydon	0.41	-0.82		-1.8
E09000026	Redbridge	0.41	-0.82		-3.4
E09000014	Haringey	0.41	-0.96		10.2
E09000006	Bromley	0.40	-1.14		2.0
E09000023	Lewisham	0.39	-1.35		1.0
E09000024	Merton	0.39	-1.40		-4.3
E09000030	Tower Hamlets	0.39	-1.44		-7.4
E09000011	Greenwich	0.38	-1.46		-10.6
E09000028	Southwark	0.37	-1.71		-0.9
E09000003	Barnet	0.37	-1.71		-2.1
E09000029	Sutton	0.37	-1.76		-11.5
E09000012	Hackney	0.37	-1.79		-6.7
E09000021	Kingston upon Thames	0.37	-1.83		-10.2
E09000033	Westminster	0.35	-2.15		8.9
E09000027	Richmond upon Thames	0.35	-2.30		-1.7
E09000019	Islington	0.35	-2.32		0.8
E09000022	Lambeth	0.35	-2.32		-6.6
E09000007	Camden	0.35	-2.36		1.9
E09000013	Hammersmith and Fulham	0.34	-2.51		-9.7
E09000020	Kensington and Chelsea	0.33	-2.64		-7.2
E09000032	Wandsworth	0.33	-2.70		-5.5
E37000024	New Anglia				
E07000145	Great Yarmouth	0.54	2.13		2.4
E07000147	North Norfolk	0.50	1.32		-6.6
E07000202	Ipswich	0.50	1.27		0.1
E07000143	Breckland	0.50	1.20		-4.4
E07000144	Broadland	0.50	1.15		0.9
E07000205	Suffolk Coastal	0.49	0.91		2.9
E07000146	King's Lynn and West Norfolk	0.48	0.79		-10.7
E07000206	Waveney	0.47	0.64		-8.3
E07000203	Mid Suffolk	0.46	0.39		-0.4
E07000201	Forest Heath	0.46	0.27		2.5
E07000204	St Edmundsbury	0.46	0.24		3.5

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E07000148	Norwich	0.45	0.17		-6.8
E07000200	Babergh	0.45	0.13		-8.5
E07000149	South Norfolk	0.40	-1.14		-16.4
E37000025	North East				
E08000024	Sunderland	0.50	1.18		-1.2
E08000037	Gateshead	0.48	0.72		2.0
E08000023	South Tyneside	0.47	0.52		-5.2
E06000047	County Durham	0.47	0.51		-3.3
E08000021	Newcastle upon Tyne	0.46	0.38		-3.6
E06000057	Northumberland	0.46	0.31		0.7
E08000022	North Tyneside	0.45	0.14		0.2
E37000027	Oxfordshire				
E07000177	Cherwell	0.42	-0.64		-10.8
E07000181	West Oxfordshire	0.41	-0.92		-4.4
E07000180	Vale of White Horse	0.39	-1.35		7.8
E07000179	South Oxfordshire	0.39	-1.36		-3.9
E07000178	Oxford	0.34	-2.49		-5.5
E37000029	Solent				
E07000088	Gosport	0.48	0.77		3.0
E07000090	Havant	0.47	0.57		-3.6
E06000046	Isle of Wight	0.46	0.26		-4.7
E06000045	Southampton	0.45	0.15		-2.5
E06000044	Portsmouth	0.45	0.08		-1.4
E07000091	New Forest	0.44	-0.12		-6.5
E07000087	Fareham	0.43	-0.31		5.4
E07000086	Eastleigh	0.43	-0.34		2.2
E07000093	Test Valley	0.42	-0.51		2.0
E07000085	East Hampshire	0.39	-1.28		-9.8
E07000094	Winchester	0.37	-1.73		1.2
E37000030	South East				
E07000073	Harlow	0.53	1.97		13.0
E07000069	Castle Point	0.52	1.64		2.0
E06000034	Thurrock	0.49	1.03		-6.2
E07000074	Maldon	0.49	1.02		20.4
E07000067	Braintree	0.48	0.73		-2.1
E07000114	Thanet	0.47	0.65		2.3
E07000113	Swale	0.47	0.65		1.4
E07000105	Ashford	0.47	0.60		2.2
E07000076	Tendring	0.47	0.52		-12.6
E07000061	Eastbourne	0.46	0.36		-0.3
E06000035	Medway	0.46	0.32		-6.3
E07000062	Hastings	0.46	0.28		-8.2
E07000064	Rother	0.46	0.28		0.5
E07000071	Colchester	0.46	0.27		4.3
E07000108	Dover	0.45	0.19		-9.9
E07000070	Chelmsford	0.45	0.16		1.3
E07000066	Basildon	0.45	0.15		-11.5
E07000109	Gravesham	0.45	0.08		-2.2
E06000033	Southend-on-Sea	0.45	0.05		-5.4
E07000075	Rochford	0.45	0.05		-8.1
E07000107	Dartford	0.44	-0.11		-3.4
E07000111	Sevenoaks	0.44	-0.14		13.8
E07000110	Maidstone	0.44	-0.17		1.7
E07000115	Tonbridge and Malling	0.44	-0.22		-2.2
E07000077	Uttlesford	0.44	-0.26		-5.2
E07000065	Wealden	0.43	-0.34		-5.3
E07000112	Shepway	0.43	-0.44		-15.1
E07000106	Canterbury	0.43	-0.47		-2.8
E07000072	Epping Forest	0.42	-0.60		-6.9
E07000116	Tunbridge Wells	0.41	-0.95		-7.5
E07000063	Lewes	0.40	-1.02		-7.4
E07000068	Brentwood	0.39	-1.25		-17.8
E37000032	Stoke-on-Trent and Staffordshire				
E07000199	Tamworth	0.51	1.58		-2.0

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E06000021	Stoke-on-Trent	0.50	1.35		-4.6
E07000195	Newcastle-under-Lyme	0.49	0.95		0.1
E07000193	East Staffordshire	0.48	0.79		-7.3
E07000192	Cannock Chase	0.46	0.41		-13.0
E07000196	South Staffordshire	0.46	0.25		-0.7
E07000194	Lichfield	0.44	-0.25		-3.0
E07000198	Staffordshire Moorlands	0.42	-0.71		-15.3
E07000197	Stafford	0.41	-0.84		-6.5
E37000033	Swindon and Wiltshire				
E06000030	Swindon	0.48	0.73		1.4
E06000054	Wiltshire	0.42	-0.61		-3.1
E37000034	Tees Valley				
E06000001	Hartlepool	0.50	1.30		1.4
E06000002	Middlesbrough	0.49	0.96		-2.4
E06000005	Darlington	0.49	0.95		0.9
E06000003	Redcar and Cleveland	0.48	0.82		0.5
E06000004	Stockton-on-Tees	0.45	0.18		-6.5
E37000035	Thames Valley Berkshire				
E06000039	Slough	0.46	0.29		-3.1
E06000036	Bracknell Forest	0.43	-0.50		-3.4
E06000037	West Berkshire	0.42	-0.70		-6.2
E06000038	Reading	0.40	-1.01		-6.8
E06000040	Windsor and Maidenhead	0.38	-1.53		0.9
E06000041	Wokingham	0.38	-1.58		-5.4
E37000036	The Marches				
E06000020	Telford and Wrekin	0.48	0.77		1.1
E06000019	Herefordshire, County of	0.47	0.53		-3.8
E06000051	Shropshire	0.47	0.51		-3.0
E37000037	West of England				
E06000025	South Gloucestershire	0.44	-0.05		-6.2
E06000024	North Somerset	0.44	-0.21		-2.9
E06000022	Bath and North East Somerset	0.40	-1.01		-2.3
E06000023	Bristol, City of	0.39	-1.38		-12.1
E37000038	Worcestershire				
E07000239	Wyre Forest	0.49	1.05		1.0
E07000236	Redditch	0.49	0.96		7.9
E07000238	Wychavon	0.46	0.30		-2.6
E07000237	Worcester	0.45	0.00		2.5
E07000234	Bromsgrove	0.43	-0.44		1.5
E07000235	Malvern Hills	0.41	-0.74		0.1
E37000039	York, North Yorkshire and East Riding				
E07000166	Richmondshire	0.51	1.54		15.2
E07000168	Scarborough	0.51	1.44		-6.2
E07000164	Hambleton	0.49	0.98		5.4
E07000169	Selby	0.48	0.84		6.6
E07000165	Harrogate	0.46	0.22		0.0
E06000011	East Riding of Yorkshire	0.45	-0.02		-3.0
E07000167	Ryedale	0.44	-0.17		-2.6
E07000163	Craven	0.43	-0.28		-0.6
E06000014	York	0.42	-0.51		-7.2
E37000040	Sheffield City Region				
E08000017	Doncaster	0.52	1.61		4.9
E08000018	Rotherham	0.49	1.02		-3.1
E07000034	Chesterfield	0.48	0.87		10.6
E07000171	Bassetlaw	0.47	0.57		-0.8
E08000016	Barnsley	0.47	0.48		-8.4
E07000033	Bolsover	0.46	0.41		2.1
E07000038	North East Derbyshire	0.46	0.22		-4.7
E08000019	Sheffield	0.43	-0.39		-6.2
E07000035	Derbyshire Dales	0.39	-1.32		-11.6
E37000041	South East Midlands				
E07000150	Corby	0.49	0.96		-6.7
E07000156	Wellingborough	0.48	0.69		-5.1

Table 10: Probability of automation (%) for jobs in the area, 2017 and 2011 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	2011-17
E06000032	Luton	0.47	0.59		-6.8
E06000056	Central Bedfordshire	0.46	0.21		3.2
E06000042	Milton Keynes	0.45	0.08		-2.5
E07000152	East Northamptonshire	0.45	0.03		-4.6
E07000154	Northampton	0.45	-0.01		-4.1
E07000153	Kettering	0.44	-0.10		1.1
E07000151	Daventry	0.44	-0.23		-0.6
E06000055	Bedford	0.43	-0.42		-3.3
E07000004	Aylesbury Vale	0.42	-0.60		-0.2
E07000177	Cherwell	0.42	-0.64		-10.8
E07000155	South Northamptonshire	0.38	-1.56		-13.8
E37000042	Greater Cambridge and Greater Peterborough				
E07000140	South Holland	0.53	1.92		0.2
E07000010	Fenland	0.51	1.37		-3.9
E06000031	Peterborough	0.50	1.19		-3.9
E07000146	King's Lynn and West Norfolk	0.48	0.79		-10.7
E07000011	Huntingdonshire	0.46	0.38		0.6
E07000201	Forest Heath	0.46	0.27		2.5
E07000204	St Edmundsbury	0.46	0.24		3.5
E07000009	East Cambridgeshire	0.45	0.17		-2.1
E07000141	South Kesteven	0.44	-0.18		-5.9
E07000077	Uttersford	0.44	-0.26		-5.2
E07000099	North Hertfordshire	0.42	-0.63		-1.6
E06000017	Rutland	0.42	-0.70		-5.6
E07000008	Cambridge	0.38	-1.45		-5.5
E07000012	South Cambridgeshire	0.38	-1.57		-12.5

Source:

ONS. Probability of automation in England. Available at: <https://www.ons.gov.uk>

Demand for jobs

Jobs density

The number of jobs in an area divided by the resident population aged 16-64 in that area. For example, a job density of 1.0 would mean that there is one job for every resident aged 16-64. The total number of jobs is a workplace-based measure and comprises employee jobs, self-employed, government-supported trainees and HM Forces.

Table 11: Jobs density (ratio)

geo code	geo name	Indicator			%growth		%YoYgrowth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	0.87			8.8	3.6	2.4	1.2	2.4	2.5
E37000023	London	1.02	1.97	117.2	9.7	4.1	3.0	1.0	2.1	3.2
E37000003	Cheshire and Warrington	1.01	1.85	116.1	12.2	6.3	2.0	4.2	3.3	2.2
E37000027	Oxfordshire	1.01	1.85	116.1	7.4	3.1	2.0	1.0	2.1	2.1
E37000035	Thames Valley Berkshire	1.01	1.85	116.1	7.4	2.0	-1.0	3.0	3.1	2.1
E37000017	Hertfordshire	0.98	1.50	112.6	14.0	7.7	5.4	2.2	2.2	3.5
E37000037	West of England	0.93	0.91	106.9	6.9	2.2	2.2	0.0	1.1	3.4
E37000042	Greater Cambridge and Greater Peterborough	0.92	0.80	105.7	12.2	7.0	3.4	3.5	2.4	2.4
E37000007	Cumbria	0.91	0.68	104.6	4.6	1.1	-2.2	3.3	2.3	1.1
E37000010	Enterprise M3	0.91	0.68	104.6	3.4	-3.2	-4.2	1.1	4.4	2.3
E37000006	Coventry and Warwickshire	0.90	0.56	103.4	7.1	3.4	2.3	1.1	0.0	3.6
E37000011	Gloucestershire	0.88	0.33	101.1	3.5	-1.1	-1.1	0.0	1.1	3.5
E37000033	Swindon and Wiltshire	0.88	0.33	101.1	11.4	1.1	-2.2	3.4	1.2	8.9
E37000036	The Marches	0.88	0.33	101.1	8.6	7.3	3.5	3.7	0.0	1.2
E37000038	Worcestershire	0.88	0.33	101.1	18.9	12.8	7.3	5.1	2.6	2.7
E37000039	York, North Yorkshire and East Riding	0.88	0.33	101.1	8.6	2.3	-1.1	3.5	4.9	1.2
E37000002	Buckinghamshire Thames Valley	0.87	0.21	100.0	10.1	3.6	1.2	2.4	1.2	5.1
E37000005	Cornwall and Isles of Scilly	0.87	0.21	100.0	10.1	6.1	3.6	2.4	-1.2	5.1
E37000009	Dorset	0.87	0.21	100.0	4.8	3.6	1.2	2.4	-1.2	2.4
E37000016	Heart of the South West	0.87	0.21	100.0	7.4	1.2	0.0	1.2	3.6	2.5
E37000041	South East Midlands	0.87	0.21	100.0	7.4	4.8	1.2	3.6	1.2	1.2
E37000012	Greater Birmingham and Solihull	0.84	-0.14	96.6	9.1	5.0	2.4	2.5	2.6	1.3
E37000015	Greater Manchester	0.83	-0.26	95.4	9.2	5.1	2.5	2.5	1.3	2.6
E37000024	New Anglia	0.83	-0.26	95.4	6.4	2.5	0.0	2.5	1.2	2.6
E37000020	Leeds City Region	0.82	-0.38	94.3	7.9	1.2	1.2	0.0	3.8	2.6
E37000004	Coast to Capital	0.81	-0.49	93.1	5.2	0.0	-1.2	1.2	3.8	1.3
E37000021	Leicester and Leicestershire	0.80	-0.61	92.0	5.3	0.0	-2.4	2.5	3.9	1.3
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	0.79	-0.73	90.8	8.2	2.6	1.3	1.3	4.1	1.4
E37000014	Greater Lincolnshire	0.79	-0.73	90.8	9.7	3.9	1.3	2.6	2.7	2.8
E37000018	Humber	0.79	-0.73	90.8	12.9	6.8	3.9	2.7	1.4	4.3
E37000019	Lancashire	0.79	-0.73	90.8	3.9	1.3	0.0	1.3	1.3	1.3
E37000029	Solent	0.78	-0.85	89.7	0.0	-1.3	-1.3	0.0	1.3	0.0
E37000032	Stoke-on-Trent and Staffordshire	0.78	-0.85	89.7	6.8	4.0	2.6	1.3	4.2	-1.4
E37000030	South East	0.76	-1.08	87.4	7.0	1.3	1.3	0.0	4.2	1.4
E37000022	Liverpool City Region	0.74	-1.32	85.1	10.4	5.7	4.2	1.4	1.4	3.0
E37000025	North East	0.74	-1.32	85.1	8.8	2.8	4.2	-1.4	2.9	2.9
E37000040	Sheffield City Region	0.73	-1.43	83.9	7.4	1.4	1.4	0.0	2.9	2.9
E37000001	Black Country	0.71	-1.67	81.6	6.0	1.4	2.9	-1.4	4.5	0.0
E37000034	Tees Valley	0.70	-1.78	80.5	2.9	-2.8	1.4	-4.2	2.9	2.9

Source: NOMIS. Jobs density, 2017. Available at: <https://www.nomisweb.co.uk/>

Vacancy rates

Table 12: Number of vacancies divided by total employment, 2017 (%)

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	3.57		
E37000038	Worcestershire	5.48	2.06	153.6
E37000012	Greater Birmingham and Solihull	5.41	1.98	151.7
E37000042	Greater Cambridge and Greater Peterborough	5.33	1.88	149.3
E37000004	Coast to Capital	4.96	1.45	138.9
E37000006	Coventry and Warwickshire	4.90	1.38	137.3
E37000003	Cheshire and Warrington	4.72	1.18	132.3
E37000027	Oxfordshire	4.57	1.00	128.1
E37000020	Leeds City Region	4.49	0.91	125.9
E37000002	Buckinghamshire Thames Valley	4.44	0.85	124.4
E37000032	Stoke-on-Trent and Staffordshire	4.02	0.37	112.7
E37000009	Dorset	4.00	0.34	112.2
E37000017	Hertfordshire	3.99	0.33	111.8
E37000033	Swindon and Wiltshire	3.97	0.30	111.2
E37000035	Thames Valley Berkshire	3.92	0.25	109.9
E37000030	South East	3.91	0.23	109.6
E37000010	Enterprise M3	3.90	0.23	109.4
E37000023	London	3.78	0.08	105.9
E37000016	Heart of the South West	3.74	0.04	104.9
E37000024	New Anglia	3.73	0.02	104.5
E37000041	South East Midlands	3.70	-0.01	103.8
E37000011	Gloucestershire	3.68	-0.03	103.1
E37000037	West of England	3.67	-0.05	102.8
E37000001	Black Country	3.65	-0.06	102.4
E37000029	Solent	3.50	-0.24	98.1
E37000039	York, North Yorkshire and East Riding	3.22	-0.57	90.2
E37000022	Liverpool City Region	3.18	-0.62	89.0
E37000007	Cumbria	3.11	-0.70	87.1
E37000015	Greater Manchester	3.06	-0.75	85.8
E37000005	Cornwall and Isles of Scilly	3.01	-0.81	84.3
E37000019	Lancashire	3.00	-0.82	84.2
E37000040	Sheffield City Region	2.89	-0.94	81.1
E37000025	North East	2.85	-1.00	79.8
E37000014	Greater Lincolnshire	2.78	-1.07	78.0
E37000021	Leicester and Leicestershire	2.67	-1.21	74.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	2.61	-1.27	73.3
E37000036	The Marches	2.50	-1.40	70.0
E37000034	Tees Valley	2.43	-1.48	68.1
E37000018	Humber	2.12	-1.84	59.4

Source: Department for Education. Employer skills survey. Table 1 - Employee summary table. Base: All Employment. Available at: <https://www.gov.uk/government/collections/uk-employer-skills-survey-2017>

Difficult or hard to fill vacancies

Table 13: Number of HtF vacancies divided by total number of vacancies, 2017 (%)

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	32.87		
E37000033	Swindon and Wiltshire	51.95	2.21	158.0
E37000042	Greater Cambridge and Greater Peterborough	50.74	2.05	154.4
E37000005	Cornwall and Isles of Scilly	48.98	1.82	149.0
E37000007	Cumbria	48.64	1.78	148.0
E37000016	Heart of the South West	44.82	1.27	136.3
E37000011	Gloucestershire	42.67	0.99	129.8
E37000006	Coventry and Warwickshire	42.13	0.92	128.2
E37000024	New Anglia	40.95	0.76	124.6
E37000017	Hertfordshire	39.60	0.59	120.5
E37000036	The Marches	39.50	0.57	120.2
E37000009	Dorset	39.44	0.57	120.0
E37000030	South East	38.67	0.47	117.6
E37000037	West of England	38.27	0.41	116.4
E37000012	Greater Birmingham and Solihull	37.21	0.27	113.2
E37000019	Lancashire	36.86	0.23	112.1
E37000032	Stoke-on-Trent and Staffordshire	34.78	-0.05	105.8
E37000010	Enterprise M3	34.61	-0.07	105.3
E37000001	Black Country	34.34	-0.10	104.5
E37000039	York, North Yorkshire and East Riding	34.20	-0.12	104.0
E37000041	South East Midlands	33.87	-0.17	103.0
E37000021	Leicester and Leicestershire	33.74	-0.18	102.6
E37000002	Buckinghamshire Thames Valley	32.88	-0.29	100.0
E37000027	Oxfordshire	32.57	-0.34	99.1
E37000022	Liverpool City Region	32.44	-0.35	98.7
E37000034	Tees Valley	31.72	-0.45	96.5
E37000015	Greater Manchester	31.32	-0.50	95.3
E37000035	Thames Valley Berkshire	30.28	-0.64	92.1
E37000018	Humber	29.93	-0.68	91.1
E37000025	North East	29.62	-0.72	90.1
E37000040	Sheffield City Region	29.55	-0.73	89.9
E37000004	Coast to Capital	29.38	-0.76	89.4
E37000003	Cheshire and Warrington	28.94	-0.81	88.0
E37000014	Greater Lincolnshire	28.63	-0.85	87.1
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	28.28	-0.90	86.0
E37000029	Solent	26.68	-1.11	81.2
E37000038	Worcestershire	25.46	-1.27	77.5
E37000023	London	23.15	-1.57	70.4
E37000020	Leeds City Region	18.07	-2.24	55.0

Source: Department for Education. Employer skills survey. Table 1 - Employee summary table. Base: All Employment. Available at: <https://www.gov.uk/government/collections/uk-employer-skills-survey-2017>

Skills-shortage vacancies

Table 14: Number of Skills-shortage vacancies divided by total number of vacancies, 2017 (%)

geo code	geo name	Indicator		
		value	Zscore	% _{parent}
E92000001	England	22.22		
E37000033	Swindon and Wiltshire	43.38	3.59	195.3
E37000005	Cornwall and Isles of Scilly	32.82	1.65	147.7
E37000012	Greater Birmingham and Solihull	32.18	1.54	144.9
E37000007	Cumbria	30.86	1.29	138.9
E37000009	Dorset	29.18	0.98	131.3
E37000017	Hertfordshire	28.00	0.77	126.0
E37000024	New Anglia	27.84	0.74	125.3
E37000034	Tees Valley	27.19	0.62	122.4
E37000037	West of England	26.98	0.58	121.4
E37000001	Black Country	26.73	0.54	120.3
E37000016	Heart of the South West	26.47	0.49	119.1
E37000021	Leicester and Leicestershire	25.63	0.33	115.3
E37000018	Humber	25.14	0.24	113.2
E37000022	Liverpool City Region	25.00	0.22	112.5
E37000011	Gloucestershire	24.97	0.21	112.4
E37000039	York, North Yorkshire and East Riding	24.69	0.16	111.1
E37000036	The Marches	23.50	-0.06	105.8
E37000025	North East	23.45	-0.07	105.6
E37000027	Oxfordshire	22.78	-0.19	102.5
E37000019	Lancashire	22.41	-0.26	100.9
E37000035	Thames Valley Berkshire	22.21	-0.29	100.0
E37000032	Stoke-on-Trent and Staffordshire	22.20	-0.30	99.9
E37000030	South East	21.91	-0.35	98.6
E37000041	South East Midlands	21.71	-0.38	97.7
E37000004	Coast to Capital	21.55	-0.41	97.0
E37000040	Sheffield City Region	21.50	-0.42	96.8
E37000015	Greater Manchester	21.40	-0.44	96.3
E37000010	Enterprise M3	21.37	-0.45	96.2
E37000042	Greater Cambridge and Greater Peterborough	21.14	-0.49	95.1
E37000014	Greater Lincolnshire	20.54	-0.60	92.5
E37000029	Solent	20.02	-0.69	90.1
E37000038	Worcestershire	19.50	-0.79	87.8
E37000006	Coventry and Warwickshire	19.26	-0.83	86.7
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	18.71	-0.94	84.2
E37000002	Buckinghamshire Thames Valley	16.82	-1.28	75.7
E37000023	London	16.19	-1.40	72.9
E37000003	Cheshire and Warrington	15.99	-1.43	72.0
E37000020	Leeds City Region	13.61	-1.87	61.3

Source: Department for Education. Employer skills survey. Table 1 - Employee summary table. Base: All Employment. Available at: <https://www.gov.uk/government/collections/uk-employer-skills-survey-2017>

Supply of labour

Student population

Higher Education Qualifiers

Higher education students for the purpose of HESA's data collection are those students on courses for which the level of instruction is above that of level 3 of the Office of Qualifications and Examinations Regulation (Ofqual) Qualifications and Credit Framework (QCF), or the former Qualifications and Curriculum Authority (QCA) National Qualifications Framework (NQF) (e.g. courses at the level of Certificate of HE and above). Data does not include postdoctorates.

The underlying data tables contain information on the breakdown of this total number of qualifiers by different HESA cost centres. These data will be used in other parts of the report (analytical chapter and LEP profiles).

Table 15: HE Qualifiers Number of students 2017/18 (number)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	644,265				4.7	3.0	1.7	-0.2	
E37000023	London	137,065	5.27	21.3		4.5	2.6	1.9	-1.2	
E37000020	Leeds City Region	40,250	0.99	6.2		4.6	3.9	0.7	-1.1	
E37000015	Greater Manchester	36,170	0.81	5.6		8.8	7.6	1.2	3.4	
E37000025	North East	31,180	0.59	4.8		2.6	5.1	-2.4	0.2	
E37000012	Greater Birmingham and Solihull	27,610	0.44	4.3		3.5	0.2	3.3	6.5	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	27,475	0.43	4.3		10.9	7.6	3.0	-2.9	
E37000030	South East	24,435	0.29	3.8		2.9	3.0	-0.1	5.4	
E37000037	West of England	23,725	0.26	3.7		8.3	2.5	5.6	1.2	
E37000029	Solent	23,530	0.25	3.7		8.8	3.2	5.4	-0.6	
E37000041	South East Midlands	23,225	0.24	3.6		-18.5	-14.3	-4.9	-10.9	
E37000040	Sheffield City Region	22,150	0.19	3.4		4.9	9.2	-4.0	1.6	
E37000006	Coventry and Warwickshire	21,290	0.16	3.3		11.6	7.1	4.3	7.6	
E37000022	Liverpool City Region	20,315	0.11	3.2		13.5	5.4	7.7	-1.7	
E37000021	Leicester and Leicestershire	19,040	0.06	3.0		9.0	4.9	3.9	-1.4	
E37000019	Lancashire	18,095	0.01	2.8		-4.1	2.3	-6.3	-2.2	
E37000016	Heart of the South West	17,370	-0.02	2.7		3.0	3.8	-0.8	0.1	
E37000027	Oxfordshire	14,765	-0.13	2.3		2.9	3.8	-0.8	1.8	
E37000010	Enterprise M3	14,225	-0.16	2.2		7.9	-4.0	12.4	12.4	
E37000004	Coast to Capital	14,205	-0.16	2.2		7.2	0.6	6.5	2.3	
E37000039	York, North Yorkshire and East Riding	9,030	-0.39	1.4		-1.4	6.0	-7.0	3.3	
E37000024	New Anglia	8,840	-0.39	1.4		8.7	11.1	-2.1	-2.2	
E37000032	Stoke-on-Trent and Staffordshire	8,265	-0.42	1.3		-1.6	0.7	-2.3	1.1	
E37000017	Hertfordshire	7,755	-0.44	1.2		12.2	3.2	8.8	-6.3	
E37000042	Greater Cambridge and Greater Peterborough	7,715	-0.44	1.2		6.7	0.6	6.1	-1.7	
E37000009	Dorset	7,155	-0.47	1.1		11.5	10.2	1.2	-3.2	
E37000035	Thames Valley Berkshire	6,460	-0.50	1.0		17.7	5.8	11.2	4.6	
E37000034	Tees Valley	6,445	-0.50	1.0		13.9	1.8	11.8	-0.3	
E37000001	Black Country	6,165	-0.51	1.0		2.0	0.6	1.4	-2.6	
E37000014	Greater Lincolnshire	5,945	-0.52	0.9		11.7	12.5	-0.7	10.1	
E37000003	Cheshire and Warrington	5,265	-0.55	0.8		11.4	7.2	3.9	-7.7	
E37000018	Humber	4,955	-0.57	0.8		1.4	-0.1	1.5	-7.1	
E37000002	Buckinghamshire Thames Valley	4,000	-0.61	0.6		-5.1	0.3	-5.3	-4.6	
E37000038	Worcestershire	3,855	-0.61	0.6		0.7	2.3	-1.6	2.3	
E37000011	Gloucestershire	3,605	-0.63	0.6		8.1	7.6	0.4	-4.8	
E37000007	Cumbria	3,280	-0.64	0.5		-9.5	-5.2	-4.6	-1.8	
E37000005	Cornwall and Isles of Scilly	1,630	-0.71	0.3		24.0	7.2	15.6	7.3	
E37000036	The Marches	820	-0.75	0.1		-8.4	-20.0	14.5	-2.7	

Source: HESA. HE qualifiers by HE provider, subject area, principal subject and level of qualification obtained. Available at: <https://www.hesa.ac.uk/data-and-analysis/students/table-19>

HE Destination of leavers

Indicators used in the main Outlook report have been calculated using data supplied by HESA through a bespoke data request, including information on UK Destinations of Leavers from Higher Education Providers 2016/17 at LEP-level. We have applied the standard HESA rounding policy to values (values rounded to the nearest 5).

These data have been redacted from the published version of the indicator handbook as they cannot be republished or reused without explicit permission from HESA. An alternative open dataset (NUTS1 level under a CC-BY-4.0 licence) is available at: <https://www.hesa.ac.uk/data-and-analysis/sfr250/figure-16>

Table 16: [REDACTED] UK domiciled higher education leavers taking employment in the region (number of students)

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England			
E37000023	London			
E37000015	Greater Manchester			
E37000020	Leeds City Region			
E37000030	South East			
E37000012	Greater Birmingham and Solihull			
E37000025	North East			
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E37000022	Liverpool City Region			
E37000004	Coast to Capital			
E37000037	West of England			
E37000010	Enterprise M3			
E37000041	South East Midlands			
E37000016	Heart of the South West			
E37000019	Lancashire			
E37000029	Solent			
E37000040	Sheffield City Region			
E37000017	Hertfordshire			
E37000024	New Anglia			
E37000035	Thames Valley Berkshire			
E37000042	Greater Cambridge and Greater Peterborough			
E37000021	Leicester and Leicestershire			
E37000003	Cheshire and Warrington			
E37000006	Coventry and Warwickshire			
E37000027	Oxfordshire			
E37000001	Black Country			
E37000014	Greater Lincolnshire			
E37000011	Gloucestershire			
E37000032	Stoke-on-Trent and Staffordshire			
E37000034	Tees Valley			
E37000009	Dorset			
E37000033	Swindon and Wiltshire			
E37000018	Humber			
E37000036	The Marches			
E37000002	Buckinghamshire Thames Valley			
E37000007	Cumbria			
E37000005	Cornwall and Isles of Scilly			
E37000038	Worcestershire			
E37000039	York, North Yorkshire and East Riding			

Source: HESA. UK domiciled higher education leavers in work in the UK by region of domicile, region of HE provider and region of employment. Copyright Higher Education Statistics Agency Limited.

Table 17: [REDACTED] Ratio of UK domiciled higher education leavers in the region and higher education leavers taking employment in the region (%)

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England			
E37000041	South East Midlands			
E37000040	Sheffield City Region			
E37000029	Solent			
E37000038	Worcestershire			
E37000021	Leicester and Leicestershire			
E37000032	Stoke-on-Trent and Staffordshire			
E37000019	Lancashire			
E37000037	West of England			
E37000006	Coventry and Warwickshire			
E37000025	North East			
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E37000009	Dorset			
E37000020	Leeds City Region			
E37000007	Cumbria			
E37000016	Heart of the South West			
E37000027	Oxfordshire			
E37000012	Greater Birmingham and Solihull			
E37000018	Humber			
E37000022	Liverpool City Region			
E37000015	Greater Manchester			
E37000034	Tees Valley			
E37000002	Buckinghamshire Thames Valley			
E37000030	South East			
E37000004	Coast to Capital			
E37000010	Enterprise M3			
E37000014	Greater Lincolnshire			
E37000001	Black Country			
E37000011	Gloucestershire			
E37000017	Hertfordshire			
E37000024	New Anglia			
E37000023	London			
E37000003	Cheshire and Warrington			
E37000005	Cornwall and Isles of Scilly			
E37000035	Thames Valley Berkshire			
E37000042	Greater Cambridge and Greater Peterborough			
E37000036	The Marches			
E37000033	Swindon and Wiltshire			
E37000039	York, North Yorkshire and East Riding			

Source: HESA. UK domiciled higher education leavers in work in the UK by region of domicile, region of HE provider and region of employment. Copyright Higher Education Statistics Agency Limited.

Further education and apprenticeships

Table 18: Percentage of economically active with Trade Apprenticeships - aged 16-64, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	3.0			-14.3	-6.2	-6.2	0.0	-5.9	-2.9
E37000007	Cumbria	5.7	2.47	190.0	-28.8	-1.7	29.5	-24.1	-14.7	-15.0
E37000019	Lancashire	5.1	1.82	170.0	8.5	24.4	-15.0	46.3	-2.4	-10.6
E37000018	Humber	5.0	1.72	166.7	-5.7	-10.7	-2.0	-8.9	5.7	0.0
E37000025	North East	4.8	1.50	160.0	2.1	20.0	9.1	10.0	-7.0	-8.5
E37000009	Dorset	4.5	1.18	150.0	15.4	18.4	18.4	0.0	-22.4	25.6
E37000036	The Marches	4.4	1.07	146.7	-2.2	-20.0	33.3	-40.0	22.2	0.0
E37000040	Sheffield City Region	4.2	0.85	140.0	-10.6	-10.6	2.4	-12.8	-9.6	10.6
E37000005	Cornwall and Isles of Scilly	4.1	0.74	136.7	24.2	-19.6	-4.7	-15.7	18.6	30.3
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	4.0	0.64	133.3	0.0	-4.8	-4.8	0.0	0.0	5.0
E37000033	Swindon and Wiltshire	3.9	0.53	130.0	30.0	56.0	21.9	28.0	-24.2	10.0
E37000024	New Anglia	3.8	0.42	126.7	-5.0	2.7	-7.3	10.8	-5.1	-2.5
E37000029	Solent	3.8	0.42	126.7	-13.6	-9.5	-19.1	11.9	-2.3	-2.3
E37000041	South East Midlands	3.7	0.31	123.3	12.1	0.0	-2.6	2.7	2.8	9.1
E37000016	Heart of the South West	3.6	0.20	120.0	-18.2	0.0	-12.2	13.9	-26.5	11.4
E37000015	Greater Manchester	3.5	0.10	116.7	-10.3	-5.4	-10.3	5.4	0.0	-5.1
E37000030	South East	3.5	0.10	116.7	-16.7	-2.8	-16.7	16.7	2.9	-16.7
E37000039	York, North Yorkshire and East Riding	3.4	-0.01	113.3	-5.6	-38.2	-24.4	-18.2	22.2	25.0
E37000020	Leeds City Region	3.3	-0.12	110.0	-21.4	-17.5	-17.5	0.0	-13.0	9.5
E37000021	Leicester and Leicestershire	3.3	-0.12	110.0	-8.3	-5.7	13.8	-17.1	-18.6	19.4
E37000037	West of England	3.3	-0.12	110.0	-2.9	3.1	26.9	-18.8	14.3	-17.6
E37000006	Coventry and Warwickshire	3.2	-0.23	106.7	3.2	3.2	6.7	-3.2	19.2	-16.1
E37000010	Enterprise M3	3.2	-0.23	106.7	33.3	52.4	23.1	23.8	-38.2	41.7
E37000022	Liverpool City Region	3.2	-0.23	106.7	-11.1	10.3	-5.9	17.2	3.6	-22.2
E37000027	Oxfordshire	3.2	-0.23	106.7	-11.1	14.3	39.1	-17.9	7.7	-27.8
E37000011	Gloucestershire	3.1	-0.34	103.3	-34.0	-8.8	14.8	-20.6	-17.1	-12.8
E37000014	Greater Lincolnshire	3.1	-0.34	103.3	-32.6	-24.4	-8.8	-17.1	-8.9	-2.2
E37000017	Hertfordshire	3.1	-0.34	103.3	3.3	-3.1	24.0	-21.9	18.5	-10.0
E37000032	Stoke-on-Trent and Staffordshire	3.0	-0.44	100.0	-34.8	-18.9	-40.0	35.1	19.4	-32.6
E37000034	Tees Valley	3.0	-0.44	100.0	-42.3	-26.8	-11.8	-17.1	-18.0	-3.8
E37000038	Worcestershire	2.9	-0.55	96.7	7.4	11.5	-3.3	15.4	-21.2	22.2
E37000003	Cheshire and Warrington	2.8	-0.66	93.3	-6.7	-26.3	-31.7	7.9	2.7	23.3
E37000002	Buckinghamshire Thames Valley	2.7	-0.77	90.0	-10.0	8.0	17.4	-8.0	8.7	-23.3
E37000001	Black Country	2.5	-0.98	83.3	-32.4	-10.7	13.6	-21.4	-3.4	-21.6
E37000042	Greater Cambridge and Greater Peterborough	2.5	-0.98	83.3	-32.4	-32.4	-19.4	-16.2	37.0	-27.0
E37000035	Thames Valley Berkshire	2.4	-1.09	80.0	-27.3	-11.1	-11.1	0.0	-15.6	-3.0
E37000004	Coast to Capital	1.9	-1.63	63.3	-51.3	-32.1	-24.0	-10.7	-3.4	-25.6
E37000012	Greater Birmingham and Solihull	1.8	-1.74	60.0	-40.0	-14.3	-30.8	23.8	-4.5	-26.7
E37000023	London	1.1	-2.50	36.7	-31.2	-15.4	0.0	-15.4	-7.1	-12.5

Source:

NOMIS. Annual Population Survey. Qualifications of economically active. Available at: <https://www.nomisweb.co.uk/>

Qualification level of workforce

Table 19: Percentage of economically active with NVQ4+ - aged 16-64, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	43.5			8.8	2.8	2.6	0.2	2.7	3.0
E37000023	London	60.0	2.77	137.9	7.1	2.6	3.4	-0.9	3.5	0.9
E37000027	Oxfordshire	54.1	1.92	124.4	3.0	-1.5	-0.2	-1.3	-2.8	7.6
E37000035	Thames Valley Berkshire	53.0	1.76	121.8	7.7	2.9	5.2	-2.1	5.5	-0.8
E37000037	West of England	51.3	1.52	117.9	14.8	6.4	-3.0	9.8	0.6	7.2
E37000002	Buckinghamshire Thames Valley	51.2	1.50	117.7	0.6	-0.4	0.6	-1.0	-0.4	1.4
E37000004	Coast to Capital	50.7	1.43	116.6	18.7	5.2	8.1	-2.7	6.2	6.3
E37000010	Enterprise M3	48.1	1.05	110.6	5.3	3.0	-1.8	4.9	2.9	-0.7
E37000003	Cheshire and Warrington	47.4	0.95	109.0	12.9	7.5	-3.1	10.9	-0.2	5.2
E37000017	Hertfordshire	45.9	0.74	105.5	-2.8	-0.9	-1.1	0.2	2.2	-4.0
E37000039	York, North Yorkshire and East Riding	42.9	0.30	98.6	6.2	7.2	4.4	2.8	-0.7	-0.2
E37000011	Gloucestershire	42.5	0.25	97.7	-1.2	6.5	1.4	5.0	-9.1	2.1
E37000006	Coventry and Warwickshire	41.4	0.09	95.2	6.2	5.3	2.5	2.8	-6.2	7.4
E37000015	Greater Manchester	40.8	0.00	93.8	9.7	0.7	1.5	-0.7	4.9	3.8
E37000033	Swindon and Wiltshire	40.5	-0.04	93.1	2.8	-6.5	-4.9	-1.6	14.9	-4.3
E37000041	South East Midlands	40.5	-0.04	93.1	10.4	4.1	1.5	2.6	3.5	2.5
E37000042	Greater Cambridge and Greater Peterborough	40.3	-0.07	92.6	8.6	-1.5	-1.0	-0.5	1.7	8.4
E37000021	Leicester and Leicestershire	39.9	-0.13	91.7	11.5	10.8	6.4	4.2	-3.7	4.5
E37000019	Lancashire	39.1	-0.24	89.9	19.6	6.2	9.8	-3.3	6.4	5.8
E37000012	Greater Birmingham and Solihull	39.0	-0.26	89.7	13.4	2.1	9.6	-6.8	-0.5	11.6
E37000020	Leeds City Region	38.9	-0.27	89.4	11.1	8.4	1.8	6.4	0.0	2.6
E37000038	Worcestershire	38.8	-0.29	89.2	-1.3	-10.4	-1.5	-9.0	6.7	3.3
E37000016	Heart of the South West	38.4	-0.34	88.3	6.4	-0.5	-1.5	1.0	-1.3	8.3
E37000022	Liverpool City Region	38.2	-0.37	87.8	16.8	3.8	4.7	-0.8	8.2	4.0
E37000009	Dorset	38.1	-0.39	87.6	0.0	-1.6	3.5	-4.9	2.4	-0.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	37.8	-0.43	86.9	7.1	4.7	5.6	-0.8	-4.7	7.4
E37000029	Solent	37.8	-0.43	86.9	-1.8	1.3	2.4	-1.1	7.5	-9.9
E37000005	Cornwall and Isles of Scilly	37.7	-0.45	86.7	5.9	5.0	3.0	2.0	10.1	-8.4
E37000036	The Marches	37.3	-0.50	85.7	9.4	11.0	7.8	3.0	-2.9	1.5
E37000040	Sheffield City Region	37.2	-0.52	85.5	17.4	6.3	1.6	4.6	8.0	2.2
E37000030	South East	36.1	-0.68	83.0	8.1	-2.4	2.6	-4.9	9.1	1.5
E37000025	North East	36.0	-0.69	82.8	10.4	-0.6	-3.0	2.5	4.0	6.7
E37000034	Tees Valley	35.9	-0.71	82.5	10.5	0.3	2.3	-2.0	2.0	8.0
E37000032	Stoke-on-Trent and Staffordshire	35.3	-0.79	81.1	16.1	6.3	5.4	0.9	1.8	7.2
E37000007	Cumbria	34.5	-0.91	79.3	6.5	0.9	2.1	-1.2	2.7	2.8
E37000024	New Anglia	33.9	-0.99	77.9	8.0	0.9	1.8	-0.9	8.7	-1.6
E37000014	Greater Lincolnshire	30.8	-1.44	70.8	12.4	1.3	1.0	0.3	0.0	10.9
E37000018	Humber	29.8	-1.59	68.5	-2.0	-11.8	-8.6	-3.5	7.3	3.6
E37000001	Black Country	28.9	-1.72	66.4	4.7	2.1	-1.4	3.5	7.6	-4.7

Source:

NOMIS. Annual Population Survey. Qualifications of economically active. Available at: <https://www.nomisweb.co.uk/>

Table 20: Percentage of economically active with NVQ2 or less - aged 16-64, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	29.5			-9.5	-3.3	-2.3	-1.0	-3.5	-3.1
E37000001	Black Country	42.3	2.51	143.4	3.2	-1.9	3.4	-5.1	-2.7	8.0
E37000024	New Anglia	38.5	1.69	130.5	-1.5	6.1	8.5	-2.2	-3.2	-4.1
E37000014	Greater Lincolnshire	37.3	1.42	126.4	-9.2	3.9	-2.9	7.0	-4.3	-8.8
E37000030	South East	36.3	1.20	123.1	-4.5	2.5	-0.5	3.1	-6.8	0.0
E37000018	Humber	35.5	1.03	120.3	-6.3	4.1	4.1	0.0	-4.5	-5.8
E37000025	North East	35.1	0.94	119.0	-5.9	-0.8	2.3	-3.1	-2.2	-2.9
E37000032	Stoke-on-Trent and Staffordshire	34.5	0.81	116.9	-8.2	-8.7	-1.1	-7.7	-7.4	8.5
E37000022	Liverpool City Region	34.2	0.75	115.9	-12.3	-3.9	-6.8	3.1	-3.0	-5.9
E37000034	Tees Valley	32.6	0.40	110.5	-6.9	-2.7	-6.6	4.2	-2.0	-2.3
E37000020	Leeds City Region	32.1	0.29	108.8	-10.3	-4.7	-3.6	-1.2	1.5	-7.3
E37000012	Greater Birmingham and Solihull	32.0	0.27	108.5	-13.0	-4.8	-4.2	-0.6	-5.4	-3.5
E37000019	Lancashire	31.8	0.22	107.8	-11.2	-4.5	-6.5	2.1	-5.9	-1.1
E37000007	Cumbria	31.7	0.20	107.5	-8.1	-9.4	-3.4	-6.3	5.1	-3.5
E37000033	Swindon and Wiltshire	31.7	0.20	107.5	-6.8	3.3	3.3	0.0	-8.6	-1.2
E37000042	Greater Cambridge and Greater Peterborough	31.7	0.20	107.5	-10.5	4.3	-1.2	5.6	-6.2	-8.5
E37000029	Solent	31.6	0.18	107.1	-0.9	0.6	1.9	-1.3	-10.3	9.7
E37000017	Hertfordshire	31.5	0.16	106.8	15.4	1.3	-1.6	2.9	3.0	10.6
E37000015	Greater Manchester	31.4	0.14	106.4	-10.3	-2.5	1.9	-4.3	-0.6	-7.4
E37000036	The Marches	31.4	0.14	106.4	-10.5	-7.6	-7.6	0.0	-4.5	1.4
E37000038	Worcestershire	31.3	0.11	106.1	-10.6	5.0	0.3	4.7	-11.6	-3.7
E37000040	Sheffield City Region	31.3	0.11	106.1	-17.8	-10.6	-7.7	-3.1	-4.6	-3.7
E37000041	South East Midlands	31.3	0.11	106.1	-12.3	-7.1	0.6	-7.7	-5.3	-0.3
E37000005	Cornwall and Isles of Scilly	30.8	0.00	104.4	-7.8	-8.6	-8.1	-0.6	-7.4	9.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	30.8	0.00	104.4	-13.2	-9.1	-8.1	-1.2	0.9	-5.4
E37000016	Heart of the South West	30.6	-0.04	103.7	-11.6	-3.8	-2.5	-1.3	3.2	-11.0
E37000021	Leicester and Leicestershire	30.5	-0.06	103.4	-13.8	-2.9	-5.6	2.9	-1.9	-9.6
E37000009	Dorset	30.2	-0.13	102.4	-10.1	-1.3	-6.2	5.2	-7.6	-1.5
E37000011	Gloucestershire	30.1	-0.15	102.0	1.7	-5.3	3.4	-8.5	1.3	6.1
E37000006	Coventry and Warwickshire	29.4	-0.30	99.7	-18.1	-10.9	-8.1	-3.0	6.1	-13.4
E37000039	York, North Yorkshire and East Riding	28.5	-0.50	96.6	-13.6	-6.9	-6.6	-0.3	-2.2	-5.2
E37000003	Cheshire and Warrington	27.7	-0.67	93.9	-18.8	-10.1	-3.1	-7.1	-1.0	-8.8
E37000010	Enterprise M3	26.0	-1.04	88.1	-15.0	-3.7	2.4	-5.9	-7.5	-4.6
E37000004	Coast to Capital	25.4	-1.17	86.1	-13.3	-5.9	-8.0	2.2	-7.2	-0.7
E37000002	Buckinghamshire Thames Valley	24.6	-1.35	83.4	-10.9	-4.7	-0.8	-3.9	-1.9	-4.7
E37000035	Thames Valley Berkshire	24.5	-1.37	83.1	-7.5	4.7	1.2	3.4	-9.3	-2.6
E37000037	West of England	22.9	-1.72	77.6	-23.2	-13.6	-7.3	-6.8	-2.2	-9.1
E37000027	Oxfordshire	21.5	-2.03	72.9	-10.4	-4.4	-6.1	1.8	-10.7	5.0
E37000023	London	19.1	-2.55	64.7	-11.2	-3.0	-0.5	-2.5	-5.7	-2.8

Source:

NOMIS. Annual Population Survey. Qualifications of economically active. Available at: <https://www.nomisweb.co.uk/>

Wellbeing and earning power

Economic wellbeing

Table 21: Earnings. Median annual pay (gross), total full-time, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	24,299			8.8	4.1	2.3	1.8	3.0	1.4
E37000023	London	32,991	3.59	135.8	8.8	5.2	2.6	2.6	2.0	1.4
E37000035	Thames Valley Berkshire	29,964	2.48	123.3	9.2	7.3	5.8	1.4	0.9	0.9
E37000027	Oxfordshire	27,947	1.75	115.0	11.5	1.7	1.2	0.4	6.1	3.4
E37000010	Enterprise M3	26,634	1.27	109.6	9.2	1.6	0.1	1.5	4.5	2.8
E37000017	Hertfordshire	25,376	0.81	104.4	8.5	7.5	5.7	1.7	4.4	-3.3
E37000002	Buckinghamshire Thames Valley	25,009	0.68	102.9	6.4	-0.5	-0.6	0.1	6.9	0.0
E37000006	Coventry and Warwickshire	25,005	0.68	102.9	12.3	7.9	2.6	5.1	1.7	2.4
E37000037	West of England	24,645	0.54	101.4	11.9	6.7	3.4	3.2	2.9	1.9
E37000041	South East Midlands	24,488	0.49	100.8		3.4	1.6	1.8		
E37000004	Coast to Capital	24,003	0.31	98.8	8.1	4.1	2.6	1.4	2.0	1.9
E37000012	Greater Birmingham and Solihull	23,958	0.29	98.6	14.0	4.7	3.0	1.7	2.9	5.7
E37000011	Gloucestershire	23,868	0.26	98.2	14.6	5.5	4.7	0.7	4.6	4.0
E37000003	Cheshire and Warrington	23,642	0.18	97.3	9.9	8.1	4.2	3.7	3.5	-1.8
E37000029	Solent	23,642	0.18	97.3	3.2	-0.1	-1.5	1.4	3.1	0.1
E37000015	Greater Manchester	22,997	-0.06	94.6	9.5	3.9	1.6	2.2	3.2	2.1
E37000033	Swindon and Wiltshire	22,783	-0.13	93.8	11.8	3.3	1.2	2.1	1.9	6.2
E37000007	Cumbria	22,644	-0.19	93.2	12.7	5.3	5.5	-0.1	5.2	1.7
E37000020	Leeds City Region	22,106	-0.38	91.0	7.0	1.6	0.8	0.8	3.4	1.9
E37000030	South East	22,053	-0.40	90.8	9.2	3.9	1.6	2.3	2.9	2.2
E37000032	Stoke-on-Trent and Staffordshire	22,013	-0.42	90.6	11.3	5.9	3.1	2.7	4.1	1.0
E37000022	Liverpool City Region	22,000	-0.42	90.5	3.9	1.8	-0.1	1.9	2.3	-0.2
E37000009	Dorset	21,962	-0.43	90.4	10.8	5.0	3.4	1.6	2.3	3.1
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	21,907	-0.45	90.2	4.8	2.1	3.0	-0.9	2.6	0.1
E37000025	North East	21,802	-0.49	89.7	6.4	3.0	-0.1	3.1	1.7	1.6
E37000024	New Anglia	21,779	-0.50	89.6	11.7	6.2	5.5	0.7	3.5	1.6
E37000021	Leicester and Leicestershire	21,582	-0.57	88.8	3.6	1.8	-1.0	2.9	1.1	0.7
E37000039	York, North Yorkshire and East Riding	21,556	-0.58	88.7	10.3	6.8	5.0	1.7	1.1	2.1
E37000019	Lancashire	21,461	-0.62	88.3	10.2	3.7	2.0	1.7	2.8	3.4
E37000001	Black Country	21,281	-0.68	87.6	14.6	4.2	2.1	2.0	2.6	7.3
E37000040	Sheffield City Region	21,179	-0.72	87.2	8.4	3.7	2.8	0.8	3.0	1.5
E37000034	Tees Valley	21,069	-0.76	86.7	6.3	-0.5	-1.8	1.3	3.2	3.6
E37000036	The Marches	20,877	-0.83	85.9	12.8	6.8	4.3	2.4	3.3	2.2
E37000038	Worcestershire	20,868	-0.83	85.9	10.4	6.6	0.4	6.1	3.0	0.6
E37000016	Heart of the South West	20,771	-0.87	85.5	6.8	2.9	0.9	2.0	1.9	1.9
E37000018	Humber	20,761	-0.87	85.4	5.0	3.1	3.1	0.1	3.3	-1.4
E37000014	Greater Lincolnshire	20,726	-0.88	85.3	5.6	3.7	2.4	1.3	2.3	-0.5
E37000005	Cornwall and Isles of Scilly	19,262	-1.42	79.3	11.2	7.8	1.7	6.0	2.4	0.8
E37000042	Greater Cambridge and Greater Peterborough									

Source:

NOMIS. Annual survey of hours and earnings - workplace analysis. Available at: <https://www.nomisweb.co.uk/>

Housing affordability

Table 22: Ratio of median house price to median gross annual workplace-based earnings by local authority district, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	8.00			12.8	3.6	1.1	2.5	2.7	6.1
E37000017	Hertfordshire	16.25	2.23			11.4	3.7	7.4	17.7	
E37000002	Buckinghamshire Thames Valley	15.38	1.93			9.5	8.2	1.2	8.2	
E37000004	Coast to Capital	14.75	1.72			11.2	3.7	7.2	9.0	
E37000023	London	14.46	1.62			9.8	2.4	7.1	8.0	
E37000010	Enterprise M3	14.44	1.61			8.0	3.7	4.2	5.9	
E37000009	Dorset	12.71	1.02			4.4	3.2	1.1	4.5	
E37000030	South East	12.58	0.98			11.6	4.7	6.6	7.1	
E37000035	Thames Valley Berkshire	12.53	0.96			11.9	1.5	10.3	13.8	
E37000027	Oxfordshire	12.14	0.83			4.8	2.7	2.1	5.5	
E37000005	Cornwall and Isles of Scilly	11.51	0.61			0.5	-0.7	1.1	2.8	
E37000037	West of England	10.91	0.41			8.9	2.8	6.0	7.6	
E37000038	Worcestershire	10.83	0.38			2.5	-1.4	4.0	3.9	
E37000024	New Anglia	10.65	0.32			12.5	7.6	4.6	5.2	
E37000033	Swindon and Wiltshire	10.55	0.28			11.4	4.8	6.3	0.5	
E37000016	Heart of the South West	10.45	0.25			6.1	3.8	2.2	2.9	
E37000011	Gloucestershire	10.31	0.20			6.3	6.8	-0.5	3.6	
E37000041	South East Midlands	9.95	0.08				7.6			
E37000029	Solent	9.79	0.03			9.6	5.3	4.1	7.8	
E37000036	The Marches	9.40	-0.11			1.0	-0.7	1.6	1.3	
E37000039	York, North Yorkshire and East Riding	8.87	-0.29			1.9	0.6	1.3	1.3	
E37000021	Leicester and Leicestershire	8.48	-0.42			10.7	5.6	4.8	3.0	
E37000003	Cheshire and Warrington	8.38	-0.46			1.1	1.7	-0.6	5.4	
E37000006	Coventry and Warwickshire	8.21	-0.51			6.6	2.9	3.7	0.9	
E37000014	Greater Lincolnshire	7.85	-0.63			5.8	4.6	1.1	5.2	
E37000012	Greater Birmingham and Solihull	7.72	-0.68			7.2	5.4	1.7	-2.1	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7.24	-0.84			8.2	6.4	1.7	3.6	
E37000007	Cumbria	7.22	-0.85			1.8	3.5	-1.7	-1.7	
E37000020	Leeds City Region	7.16	-0.87			1.8	2.2	-0.3	1.9	
E37000018	Humber	7.05	-0.91			5.7	4.0	1.7	5.5	
E37000032	Stoke-on-Trent and Staffordshire	6.94	-0.94			-0.1	3.1	-3.1	5.7	
E37000001	Black Country	6.84	-0.98			4.7	3.4	1.3	-3.1	
E37000015	Greater Manchester	6.76	-1.01			4.3	3.2	1.1	4.7	
E37000040	Sheffield City Region	6.65	-1.04			1.5	4.5	-2.9	2.4	
E37000019	Lancashire	6.46	-1.11			1.6	1.3	0.3	-0.9	
E37000022	Liverpool City Region	6.27	-1.17			1.9	1.5	0.4	4.2	
E37000025	North East	5.91	-1.30			-1.5	-1.9	0.3	0.0	
E37000034	Tees Valley	5.83	-1.32			-3.3	-0.5	-2.8	-2.1	
E37000042	Greater Cambridge and Greater Peterborough									

Source: ONS, People, population and community. Housing. House price to workplace-based earnings ratio. Available at: <https://www.ons.gov.uk>

Table 23: Ratio of lower quartile house price to lower quartile gross annual workplace-based earnings by local authority district, 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	7.29			5.5	1.8	0.4	1.4	0.7	2.9
E37000017	Hertfordshire	23.04	2.60			10.6	8.5	2.0	22.2	
E37000002	Buckinghamshire Thames Valley	19.33	1.71			12.7	12.7	0.1	9.9	
E37000004	Coast to Capital	18.50	1.51			8.7	4.1	4.4	7.7	
E37000010	Enterprise M3	18.00	1.39			5.7	3.6	2.0	1.6	
E37000023	London	17.97	1.38			11.4	2.9	8.2	13.1	
E37000030	South East	16.96	1.14			16.0	8.0	7.5	6.4	
E37000035	Thames Valley Berkshire	16.26	0.98			17.8	5.8	11.4	6.8	
E37000027	Oxfordshire	16.07	0.93			2.3	7.8	-5.2	5.4	
E37000009	Dorset	16.03	0.92			2.0	4.6	-2.5	3.7	
E37000005	Cornwall and Isles of Scilly	14.31	0.51			2.7	1.9	0.8	-1.9	
E37000038	Worcestershire	14.22	0.48			2.2	-4.5	7.1	5.6	
E37000037	West of England	14.00	0.43			5.5	1.0	4.5	4.8	
E37000033	Swindon and Wiltshire	13.93	0.41			13.3	8.3	4.6	2.1	
E37000024	New Anglia	13.73	0.37			6.0	3.8	2.1	0.0	
E37000016	Heart of the South West	13.46	0.30			4.6	4.9	-0.3	4.8	
E37000011	Gloucestershire	12.90	0.17			2.8	5.0	-2.0	5.4	
E37000029	Solent	12.59	0.10			9.5	6.5	2.8	5.1	
E37000041	South East Midlands	12.29	0.02				7.7			
E37000036	The Marches	12.24	0.01			1.4	0.8	0.6	0.5	
E37000021	Leicester and Leicestershire	11.44	-0.18			7.8	5.7	2.0	9.6	
E37000039	York, North Yorkshire and East Riding	11.02	-0.28			-2.0	-1.7	-0.3	1.3	
E37000006	Coventry and Warwickshire	9.97	-0.53			2.5	1.5	1.0	6.2	
E37000003	Cheshire and Warrington	9.94	-0.54			2.7	1.4	1.3	3.4	
E37000014	Greater Lincolnshire	9.54	-0.64			1.6	-0.1	1.7	3.1	
E37000012	Greater Birmingham and Solihull	9.45	-0.66			4.6	2.8	1.8	-1.9	
E37000018	Humber	9.04	-0.76			12.8	4.1	8.4	-0.4	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	9.03	-0.76			8.1	7.8	0.3	3.7	
E37000007	Cumbria	8.83	-0.81			9.3	5.2	3.9	-3.7	
E37000001	Black Country	8.33	-0.93			4.0	4.1	-0.1	-3.0	
E37000020	Leeds City Region	8.19	-0.96			1.1	1.1	0.0	-0.6	
E37000040	Sheffield City Region	7.83	-1.05			-1.5	-0.3	-1.2	-1.5	
E37000015	Greater Manchester	7.70	-1.08			4.6	0.1	4.5	1.1	
E37000032	Stoke-on-Trent and Staffordshire	7.57	-1.11			-6.4	-4.9	-1.5	5.1	
E37000019	Lancashire	7.19	-1.20			1.8	0.1	1.7	-6.2	
E37000022	Liverpool City Region	7.01	-1.24			-1.1	2.4	-3.4	3.5	
E37000034	Tees Valley	6.89	-1.27			-4.8	2.7	-7.3	-5.1	
E37000025	North East	6.42	-1.38			-4.2	-2.6	-1.6	0.1	
E37000042	Greater Cambridge and Greater Peterborough									

Source: ONS, People, population and community. Housing. House price to workplace-based earnings ratio. Available at: <https://www.ons.gov.uk>

Gross disposable household income (GDHI)

Table 24: Gross Disposable Household Income (GDHI) per head, 2017 (£)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	19,988			9.7	1.5	1.0	0.5	5.4	2.5
E37000023	London	27,825	2.55	139.2	14.9	4.0	2.2	1.7	6.8	3.5
E37000002	Buckinghamshire Thames Valley	27,304	2.39	136.6	12.8	3.1	1.8	1.2	6.5	2.7
E37000010	Enterprise M3	26,325	2.11	131.7	10.5	1.9	2.0	-0.1	6.4	1.9
E37000017	Hertfordshire	24,696	1.63	123.6	11.6	2.2	2.4	-0.2	6.0	3.0
E37000004	Coast to Capital	23,174	1.19	115.9	10.2	2.5	1.9	0.6	6.0	1.4
E37000035	Thames Valley Berkshire	23,055	1.16	115.3	7.5	0.2	-0.8	1.0	5.6	1.6
E37000027	Oxfordshire	22,939	1.12	114.8	9.5	-1.1	-0.3	-0.7	7.5	3.0
E37000003	Cheshire and Warrington	20,821	0.50	104.2	9.6	0.6	1.4	-0.7	6.1	2.7
E37000011	Gloucestershire	20,663	0.46	103.4	8.5	0.2	0.8	-0.6	4.0	4.1
E37000030	South East	20,289	0.35	101.5	9.0	1.6	0.9	0.7	5.5	1.8
E37000038	Worcestershire	20,243	0.34	101.3	13.4	4.2	3.1	1.0	5.7	3.0
E37000041	South East Midlands	20,071	0.29	100.4	10.3	1.9	1.2	0.7	5.8	2.3
E37000009	Dorset	20,007	0.27	100.1	7.5	0.4	1.1	-0.7	4.6	2.3
E37000033	Swindon and Wiltshire	19,546	0.13	97.8	6.5	-0.4	-0.5	0.1	4.0	2.9
E37000042	Greater Cambridge and Greater Peterborough	19,531	0.13	97.7	8.3	0.3	0.1	0.2	4.9	2.9
E37000039	York, North Yorkshire and East Riding	19,432	0.10	97.2	7.9	0.7	0.9	-0.2	5.7	1.3
E37000037	West of England	19,381	0.09	97.0	8.8	-0.2	-0.4	0.2	6.1	2.7
E37000006	Coventry and Warwickshire	19,146	0.02	95.8	12.8	4.1	1.4	2.7	5.4	2.8
E37000007	Cumbria	18,537	-0.16	92.7	6.6	-0.1	-0.3	0.2	4.5	2.1
E37000036	The Marches	18,220	-0.25	91.2	8.3	1.1	0.2	0.8	5.6	1.5
E37000016	Heart of the South West	18,071	-0.30	90.4	5.8	-0.4	-0.1	-0.3	3.9	2.3
E37000024	New Anglia	17,651	-0.42	88.3	6.1	-0.9	-0.4	-0.6	5.4	1.6
E37000029	Solent	17,600	-0.43	88.1	7.5	1.8	1.7	0.1	4.5	1.1
E37000005	Cornwall and Isles of Scilly	17,021	-0.60	85.2	5.8	0.6	-0.3	0.9	3.3	1.8
E37000032	Stoke-on-Trent and Staffordshire	16,933	-0.63	84.7	7.7	0.1	0.5	-0.4	5.3	2.3
E37000012	Greater Birmingham and Solihull	16,476	-0.76	82.4	9.1	1.1	1.1	0.0	4.8	3.0
E37000014	Greater Lincolnshire	16,471	-0.76	82.4	6.2	0.8	1.1	-0.3	3.3	2.0
E37000021	Leicester and Leicestershire	16,417	-0.78	82.1	6.5	0.2	0.9	-0.7	4.2	2.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	16,303	-0.81	81.6	7.0	-0.5	-0.1	-0.4	5.2	2.2
E37000020	Leeds City Region	16,240	-0.83	81.2	6.0	-0.6	-0.5	-0.1	4.6	1.9
E37000019	Lancashire	16,110	-0.87	80.6	6.5	-0.3	-0.6	0.3	4.7	2.1
E37000015	Greater Manchester	16,106	-0.87	80.6	7.5	1.0	1.1	-0.1	4.5	1.9
E37000022	Liverpool City Region	16,037	-0.89	80.2	6.1	0.4	0.3	0.1	4.1	1.5
E37000025	North East	15,925	-0.92	79.7	6.7	1.2	1.3	0.0	4.0	1.4
E37000018	Humber	15,647	-1.00	78.3	7.0	0.4	0.0	0.3	4.7	1.9
E37000034	Tees Valley	15,469	-1.05	77.4	7.0	1.3	1.4	-0.1	2.9	2.7
E37000040	Sheffield City Region	15,292	-1.11	76.5	6.2	-0.7	-0.5	-0.2	4.1	2.7
E37000001	Black Country	14,403	-1.37	72.1	9.1	1.7	0.9	0.8	4.0	3.1

Source: Growth in Gross Disposable Household Income per head Regional Gross Disposable Household Income (GDHI) by Local Authority (1997-2016) & Regional Growth in Gross Disposable Household Income per head by Local Enterprise Partnership (1997-2016). Available at: <https://www.ons.gov.uk>

Personal wellbeing

Table 25: Life satisfaction Mean score. Extent of respondents' satisfaction with life, 2017 (scored between 0-10)

geo code	geo name	Indicator			%growth		%YoYgrowth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	7.68			2.4	0.5	0.0	0.5	0.5	1.3
E37000002	Buckinghamshire Thames Valley	7.87	1.63	102.5	4.2	1.3	0.2	1.1	3.2	-0.3
E37000039	York, North Yorkshire and East Riding	7.87	1.62	102.5	2.8	2.1	0.4	1.7	0.1	0.6
E37000007	Cumbria	7.84	1.25	102.1	2.4	-0.6	1.3	-1.9	2.0	1.0
E37000010	Enterprise M3	7.83	1.21	102.0	2.3	1.2	1.4	-0.2	1.0	0.1
E37000016	Heart of the South West	7.83	1.16	101.9	3.9	1.0	0.1	0.9	2.2	0.6
E37000005	Cornwall and Isles of Scilly	7.82	1.07	101.8	2.2	1.6	0.5	1.0	-0.4	1.0
E37000029	Solent	7.79	0.80	101.5	2.9	1.0	0.2	0.8	1.0	0.9
E37000024	New Anglia	7.79	0.80	101.5	2.5	1.1	1.1	0.0	0.2	1.1
E37000032	Stoke-on-Trent and Staffordshire	7.77	0.55	101.2	3.8	1.7	0.5	1.2	0.9	1.1
E37000033	Swindon and Wiltshire	7.76	0.49	101.1	2.2	1.5	-0.2	1.7	0.7	-0.1
E37000006	Coventry and Warwickshire	7.76	0.47	101.1	3.7	1.6	1.5	0.1	0.5	1.5
E37000014	Greater Lincolnshire	7.76	0.47	101.1	3.6	1.8	0.4	1.4	0.9	0.8
E37000038	Worcestershire	7.76	0.46	101.1	4.1	0.1	-0.3	0.5	2.6	1.3
E37000035	Thames Valley Berkshire	7.76	0.43	101.0	3.1	1.4	0.9	0.6	1.2	0.5
E37000021	Leicester and Leicestershire	7.75	0.38	101.0	3.5	0.9	0.5	0.4	1.6	0.9
E37000017	Hertfordshire	7.75	0.36	100.9	3.0	1.0	1.6	-0.6	2.5	-0.6
E37000027	Oxfordshire	7.75	0.33	100.9	2.6	-0.8	-1.2	0.5	2.7	0.7
E37000018	Humber	7.75	0.30	100.9	3.7	2.0	1.3	0.8	0.9	0.7
E37000036	The Marches	7.74	0.20	100.7	2.7	0.5	0.6	-0.2	1.8	0.4
E37000030	South East	7.73	0.18	100.7	4.1	0.9	0.3	0.6	2.1	1.1
E37000011	Gloucestershire	7.73	0.14	100.7	1.8	1.4	0.3	1.1	0.4	-0.1
E37000003	Cheshire and Warrington	7.72	0.07	100.6	2.9	-0.4	0.2	-0.6	3.2	0.1
E37000041	South East Midlands	7.72	0.04	100.5	3.5	1.5	0.7	0.8	1.7	0.2
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7.71	-0.10	100.4	2.8	1.1	-0.6	1.8	1.2	0.6
E37000004	Coast to Capital	7.70	-0.16	100.3	2.8	0.0	-0.2	0.1	1.2	1.6
E37000009	Dorset	7.70	-0.22	100.2	1.4	1.0	0.3	0.7	1.3	-0.9
E37000020	Leeds City Region	7.69	-0.23	100.2	3.2	1.8	0.3	1.5	0.5	0.9
E37000042	Greater Cambridge and Greater Peterborough	7.69	-0.25	100.2	1.7	-0.8	0.5	-1.3	1.8	0.7
E37000012	Greater Birmingham and Solihull	7.66	-0.56	99.8	4.3	1.7	0.8	0.8	1.7	0.9
E37000037	West of England	7.66	-0.59	99.7	2.8	1.3	0.6	0.6	1.8	-0.3
E37000034	Tees Valley	7.64	-0.75	99.5	2.5	0.1	0.2	-0.1	1.3	1.0
E37000040	Sheffield City Region	7.63	-0.89	99.3	2.8	2.0	0.1	1.9	-0.1	0.8
E37000019	Lancashire	7.61	-1.09	99.1	2.3	-0.1	2.0	-2.0	1.8	0.6
E37000025	North East	7.60	-1.18	99.0	3.2	0.8	-0.1	0.9	1.3	1.1
E37000015	Greater Manchester	7.56	-1.57	98.5	3.0	1.2	0.3	0.9	1.7	0.1
E37000023	London	7.54	-1.82	98.2	4.0	0.7	0.5	0.2	1.7	1.5
E37000001	Black Country	7.49	-2.34	97.5	1.2	1.7	0.0	1.7	-0.9	0.5
E37000022	Liverpool City Region	7.46	-2.63	97.2	1.6	0.3	-0.2	0.5	1.9	-0.5

Source: Estimates of personal well-being from the Annual Population Survey (APS): for UK and constituent countries in the UK, for the time periods January to December from 2012 to 2018 England. Available at: <https://www.ons.gov.uk/peoplepopulationandcommunity/wellbeing/datasets/headlineestimatesofpersonalwellbeing>

Infrastructure

Digital infrastructure

Fixed broadband infrastructure

Table 26: Proportion of premises with full fibre broadband (%), 2018(*)

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	6.10					89.9
E37000018	Humber	35.99	4.09	590.3			43.3
E37000005	Cornwall and Isles of Scilly	30.84	3.38	505.8			6.9
E37000039	York, North Yorkshire and East Riding	17.31	1.51	283.9			25.2
E37000023	London	11.70	0.74	192.0			78.8
E37000011	Gloucestershire	8.38	0.29	137.4			88.6
E37000006	Coventry and Warwickshire	7.83	0.21	128.4			2,215.7
E37000009	Dorset	7.78	0.20	127.6			-47.0
E37000027	Oxfordshire	7.77	0.20	127.5			82.7
E37000021	Leicester and Leicestershire	7.46	0.16	122.4			4,038.5
E37000035	Thames Valley Berkshire	7.27	0.13	119.2			30.5
E37000041	South East Midlands	7.02	0.10	115.1			64.5
E37000010	Enterprise M3	6.12	-0.03	100.3			120.2
E37000020	Leeds City Region	6.00	-0.04	98.4			206.0
E37000036	The Marches	5.81	-0.07	95.2			37.4
E37000037	West of England	5.75	-0.08	94.4			218.8
E37000029	Solent	5.52	-0.11	90.5			508.3
E37000004	Coast to Capital	5.04	-0.17	82.7			123.4
E37000002	Buckinghamshire Thames Valley	4.98	-0.18	81.8			90.8
E37000042	Greater Cambridge and Greater Peterborough	4.53	-0.24	74.4			156.0
E37000033	Swindon and Wiltshire	3.92	-0.33	64.3			141.7
E37000030	South East	3.65	-0.37	59.9			303.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	3.58	-0.38	58.7			596.2
E37000015	Greater Manchester	3.24	-0.42	53.1			117.8
E37000016	Heart of the South West	3.22	-0.43	52.8			102.8
E37000040	Sheffield City Region	2.94	-0.46	48.2			511.4
E37000019	Lancashire	2.91	-0.47	47.7			64.1
E37000003	Cheshire and Warrington	2.89	-0.47	47.4			49.6
E37000012	Greater Birmingham and Solihull	2.60	-0.51	42.6			115.9
E37000007	Cumbria	2.30	-0.55	37.7			79.2
E37000032	Stoke-on-Trent and Staffordshire	2.23	-0.56	36.5			841.7
E37000038	Worcestershire	2.20	-0.57	36.2			135.0
E37000022	Liverpool City Region	2.10	-0.58	34.4			119.3
E37000001	Black Country	1.95	-0.60	31.9			
E37000025	North East	1.86	-0.61	30.5			63.5
E37000024	New Anglia	1.75	-0.63	28.6			233.5
E37000014	Greater Lincolnshire	1.15	-0.71	18.8			441.9
E37000017	Hertfordshire	1.14	-0.71	18.7			119.1
E37000034	Tees Valley	1.06	-0.72	17.4			

Source: Ofcom. Connected Nations Report. Fixed local and unitary authority. Available at: https://www.ofcom.org.uk/___data/assets/file/0014/131036/201809_fixed_laua_r02.zip (*) 2017 and 2018 LEP-level reaggregations done on the basis of 2017 housing stock

Table 27: Median download speed (Mbit/s), 2018

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England						
E37000001	Black Country						
E08000031	Wolverhampton	49.0	1.31		63.3	22.5	
E08000027	Dudley	41.7	0.58		39.0	4.2	
E08000028	Sandwell	40.0	0.40		112.8	63.9	
E08000030	Walsall	40.0	0.40		97.0	7.2	
E37000002	Buckinghamshire Thames Valley						
E07000004	Aylesbury Vale	39.7	0.37		105.7	66.1	
E07000005	Chiltern	39.6	0.36		77.6	27.7	
E07000007	Wycombe	36.9	0.09		90.2	64.0	
E07000006	South Bucks	28.8	-0.72		53.2	30.3	
E37000003	Cheshire and Warrington						
E06000007	Warrington	40.0	0.40		66.7	0.0	
E06000049	Cheshire East	35.0	-0.10		95.5	48.9	
E06000050	Cheshire West and Chester	30.4	-0.56		79.9	42.1	
E37000004	Coast to Capital						
E06000043	Brighton and Hove	50.0	1.41		25.0	0.0	
E07000223	Adur	50.0	1.41		25.3	0.0	
E07000226	Crawley	50.0	1.41		25.0	0.0	
E07000229	Worthing	50.0	1.41		25.3	0.0	
E07000208	Epsom and Ewell	40.0	0.40		33.3	0.0	
E07000211	Reigate and Banstead	40.0	0.40		63.9	3.9	
E09000008	Croydon	40.0	0.40		91.4	15.9	
E07000210	Mole Valley	39.3	0.33		78.6	23.6	
E07000215	Tandridge	35.0	-0.10		67.5	28.2	
E07000228	Mid Sussex	31.2	-0.48		71.4	43.1	
E07000227	Horsham	29.6	-0.64		68.2	37.0	
E07000224	Arun	23.0	-1.30		50.3	21.7	
E07000225	Chichester	22.9	-1.32		41.4	16.2	
E07000063	Lewes	22.6	-1.35		34.5	14.1	
E37000005	Cornwall and Isles of Scilly						
E06000053	Isles of Scilly	40.0	0.40		93.2	14.3	
E06000052	Cornwall	19.3	-1.68		26.1	12.2	
E37000006	Coventry and Warwickshire						
E07000219	Nuneaton and Bedworth	40.0	0.40		14.3	0.0	
E07000220	Rugby	40.0	0.40		88.7	0.5	
E07000222	Warwick	40.0	0.40		33.3	0.0	
E08000026	Coventry	40.0	0.40		101.0	66.7	
E07000218	North Warwickshire	27.5	-0.85		69.8	33.5	
E07000221	Stratford-on-Avon	25.6	-1.04		55.2	24.9	
E37000007	Cumbria						
E07000028	Carlisle	38.2	0.22		253.7	90.0	
E07000027	Barrow-in-Furness	33.4	-0.26		87.6	52.5	
E07000029	Copeland	24.0	-1.20		80.5	24.4	
E07000026	Allerdale	21.6	-1.45		40.3	14.3	
E07000031	South Lakeland	21.3	-1.48		67.7	22.4	
E07000030	Eden	20.8	-1.53		96.2	23.8	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire						
E06000015	Derby	50.0	1.41		52.4	25.0	
E06000018	Nottingham	50.0	1.41		25.0	0.0	
E07000170	Ashfield	50.0	1.41		25.0	0.0	
E07000172	Broxtowe	50.0	1.41		25.0	0.0	
E07000173	Gedling	50.0	1.41		25.0	0.0	
E07000176	Rushcliffe	49.2	1.33		52.3	23.0	
E07000174	Mansfield	43.6	0.77		9.5	9.0	
E07000036	Erewash	40.0	0.40		46.0	0.0	
E07000175	Newark and Sherwood	39.9	0.39		99.5	20.9	
E07000039	South Derbyshire	35.1	-0.09		137.2	56.7	
E07000034	Chesterfield	34.4	-0.16		140.6	59.3	
E07000171	Bassetlaw	30.5	-0.55		121.0	49.5	
E07000033	Bolsover	25.0	-1.10		46.2	22.0	

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E07000038	North East Derbyshire	23.9	-1.21			95.9	29.2
E07000032	Amber Valley	22.1	-1.40			50.3	18.2
E07000037	High Peak	21.5	-1.46			33.5	17.5
E07000035	Derbyshire Dales	20.0	-1.61			44.9	17.6
E37000009	Dorset						
E06000028	Bournemouth	40.0	0.40			33.3	0.0
E06000029	Poole	40.0	0.40			33.3	0.0
E07000048	Christchurch	39.6	0.36			106.2	32.0
E07000053	Weymouth and Portland	24.7	-1.13			48.8	22.9
E07000050	North Dorset	22.4	-1.37			50.3	19.1
E07000052	West Dorset	22.1	-1.40			54.5	22.8
E07000049	East Dorset	21.6	-1.45			51.0	18.7
E07000051	Purbeck	21.4	-1.47			41.7	16.3
E37000010	Enterprise M3						
E07000092	Rushmoor	50.0	1.41			25.0	0.0
E07000209	Guildford	50.0	1.41			25.0	25.0
E07000217	Woking	50.0	1.41			25.0	4.4
E07000214	Surrey Heath	48.5	1.26			21.2	21.2
E07000207	Elmbridge	41.8	0.59			11.8	4.5
E07000084	Basingstoke and Deane	40.0	0.40			95.1	15.3
E07000089	Hart	40.0	0.40			23.5	0.0
E07000212	Runnymede	40.0	0.40			33.3	0.0
E07000213	Spelthorne	39.8	0.38			109.5	51.9
E07000093	Test Valley	38.8	0.28			125.6	71.7
E07000216	Waverley	34.4	-0.16			72.0	36.5
E07000094	Winchester	30.0	-0.60			78.6	42.9
E07000085	East Hampshire	24.1	-1.19			34.6	18.7
E07000091	New Forest	22.8	-1.33			42.5	21.3
E37000011	Gloucestershire						
E07000078	Cheltenham	50.0	1.41			25.3	25.0
E07000081	Gloucester	50.0	1.41			3.1	0.0
E07000083	Tewkesbury	23.5	-1.25			39.1	21.8
E07000079	Cotswold	20.7	-1.54			58.0	21.1
E07000082	Stroud	20.7	-1.54			69.7	24.7
E07000080	Forest of Dean	17.7	-1.84			51.3	14.2
E37000012	Greater Birmingham and Solihull						
E08000029	Solihull	50.0	1.41			25.0	16.6
E07000236	Redditch	48.9	1.30			39.7	22.2
E08000025	Birmingham	42.1	0.62			47.2	5.2
E07000194	Lichfield	40.0	0.40			100.0	13.6
E07000199	Tamworth	40.0	0.40			29.0	0.0
E07000239	Wyre Forest	40.0	0.40			103.0	19.8
E07000234	Bromsgrove	37.5	0.15			134.4	43.7
E07000192	Cannock Chase	35.0	-0.10			130.3	72.4
E07000193	East Staffordshire	31.5	-0.45			160.3	55.2
E37000014	Greater Lincolnshire						
E06000012	North East Lincolnshire	70.0	3.42			40.0	40.0
E07000138	Lincoln	56.6	2.07			13.2	13.2
E06000013	North Lincolnshire	40.0	0.40			97.0	12.0
E07000139	North Kesteven	40.0	0.40			88.7	14.0
E07000141	South Kesteven	36.9	0.09			96.3	47.6
E07000142	West Lindsey	31.9	-0.41			85.5	42.4
E07000136	Boston	22.5	-1.36			75.8	48.0
E07000137	East Lindsey	21.4	-1.47			43.6	17.6
E07000140	South Holland	20.9	-1.52			38.4	21.5
E37000015	Greater Manchester						
E08000007	Stockport	48.8	1.29			39.8	22.0
E08000010	Wigan	43.7	0.78			45.7	9.2
E08000001	Bolton	40.0	0.40			71.7	0.0
E08000004	Oldham	40.0	0.40			46.0	0.0
E08000005	Rochdale	40.0	0.40			102.0	13.0
E08000006	Salford	40.0	0.40			99.0	27.4
E08000009	Trafford	40.0	0.40			48.7	0.0
E08000002	Bury	39.1	0.31			114.8	56.4

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E08000008	Tameside	38.5	0.25			115.1	65.9
E08000003	Manchester	38.3	0.23			132.1	84.1
E37000016	Heart of the South West						
E06000026	Plymouth	50.0	1.41			25.0	0.0
E07000041	Exeter	41.9	0.60			87.1	4.8
E07000188	Sedgemoor	23.8	-1.22			68.8	26.6
E07000045	Teignbridge	22.6	-1.35			38.6	23.5
E07000043	North Devon	22.2	-1.39			49.0	16.8
E07000189	South Somerset	22.1	-1.40			54.5	24.2
E06000027	Torbay	22.0	-1.41			21.5	10.0
E07000190	Taunton Deane	21.6	-1.45			75.6	42.1
E07000040	East Devon	21.4	-1.47			49.6	18.9
E07000187	Mendip	20.9	-1.52			45.1	14.8
E07000046	Torrige	20.8	-1.53			77.8	21.6
E07000044	South Hams	20.5	-1.56			43.4	13.9
E07000191	West Somerset	19.2	-1.69			111.0	29.7
E07000042	Mid Devon	18.7	-1.74			65.5	18.4
E07000047	West Devon	18.6	-1.75			75.5	27.4
E37000017	Hertfordshire						
E07000243	Stevenage	54.9	1.90			9.8	9.8
E07000095	Broxbourne	50.0	1.41			25.0	13.9
E07000103	Watford	50.0	1.41			25.3	0.0
E07000240	St Albans	48.9	1.30			27.3	22.2
E07000102	Three Rivers	46.9	1.10			31.4	17.2
E07000241	Welwyn Hatfield	40.8	0.48			27.9	2.0
E07000096	Dacorum	40.0	0.40			48.7	0.0
E07000098	Hertsmere	40.0	0.40			23.5	0.0
E07000099	North Hertfordshire	40.0	0.40			69.5	0.0
E07000242	East Hertfordshire	39.2	0.32			96.0	71.9
E37000018	Humber						
E06000012	North East Lincolnshire	70.0	3.42			40.0	40.0
E06000013	North Lincolnshire	40.0	0.40			97.0	12.0
E06000011	East Riding of Yorkshire	33.5	-0.25			121.9	70.1
E06000010	Kingston upon Hull, City of	24.0	-1.20			114.3	83.2
E37000019	Lancashire						
E06000008	Blackburn with Darwen	40.0	0.40			129.9	14.3
E06000009	Blackpool	40.0	0.40			97.0	63.9
E07000117	Burnley	40.0	0.40			33.3	0.0
E07000120	Hyndburn	40.0	0.40			100.0	13.6
E07000123	Preston	40.0	0.40			86.9	0.5
E07000126	South Ribble	40.0	0.40			84.3	0.5
E07000118	Chorley	39.8	0.38			91.3	13.7
E07000125	Rosendale	37.5	0.15			87.5	28.4
E07000122	Pendle	34.8	-0.12			74.0	52.0
E07000121	Lancaster	28.3	-0.77			72.6	41.5
E07000119	Fylde	23.8	-1.22			42.5	19.0
E07000124	Ribble Valley	22.7	-1.34			47.4	18.8
E07000127	West Lancashire	22.0	-1.41			45.7	17.0
E07000128	Wyre	21.6	-1.45			38.5	14.9
E37000020	Leeds City Region						
E08000032	Bradford	40.0	0.40			94.2	33.3
E08000035	Leeds	40.0	0.40			97.0	9.9
E07000165	Harrogate	39.3	0.33			96.5	63.8
E08000034	Kirklees	39.0	0.30			134.9	78.1
E08000016	Barnsley	33.4	-0.26			106.2	64.5
E06000014	York	32.1	-0.39			80.3	34.3
E08000036	Wakefield	31.7	-0.43			95.7	48.8
E07000169	Selby	24.4	-1.16			60.5	23.9
E08000033	Calderdale	24.4	-1.16			51.6	22.6
E07000163	Craven	22.1	-1.40			30.8	12.2
E37000021	Leicester and Leicestershire						
E06000016	Leicester	50.0	1.41			66.7	4.4
E07000130	Charnwood	40.0	0.40			73.2	0.0
E07000132	Hinckley and Bosworth	40.0	0.40			88.7	2.3
E07000134	North West Leicestershire	40.0	0.40			66.7	0.3

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E07000135	Oadby and Wigston	40.0	0.40			83.5	0.3
E07000129	Blaby	39.8	0.38			96.1	0.0
E07000133	Melton	39.3	0.33			111.3	62.4
E07000131	Harborough	35.7	-0.03			87.9	49.4
E37000022	Liverpool City Region						
E08000013	St. Helens	50.0	1.41			150.0	25.0
E06000006	Halton	40.0	0.40			80.2	0.0
E08000011	Knowsley	40.0	0.40			42.3	0.0
E08000012	Liverpool	40.0	0.40			86.0	2.3
E08000014	Sefton	40.0	0.40			81.8	0.5
E08000015	Wirral	38.2	0.22			105.4	62.6
E37000023	London						
E09000010	Enfield	50.0	1.41			42.9	25.0
E09000014	Haringey	50.0	1.41			66.7	25.0
E09000021	Kingston upon Thames	50.0	1.41			25.0	0.0
E09000024	Merton	50.0	1.41			25.6	13.6
E09000027	Richmond upon Thames	50.0	1.41			30.5	6.4
E09000031	Waltham Forest	50.0	1.41			108.3	25.0
E09000029	Sutton	49.0	1.31			24.7	22.5
E09000018	Hounslow	48.9	1.30			40.1	22.2
E09000002	Barking and Dagenham	40.0	0.40			76.2	0.0
E09000006	Bromley	40.0	0.40			33.3	0.0
E09000007	Camden	40.0	0.40			81.8	1.8
E09000008	Croydon	40.0	0.40			91.4	15.9
E09000009	Ealing	40.0	0.40			97.0	0.5
E09000011	Greenwich	40.0	0.40			106.2	26.2
E09000015	Harrow	40.0	0.40			33.3	0.0
E09000016	Havering	40.0	0.40			36.5	0.0
E09000017	Hillingdon	40.0	0.40			33.3	0.0
E09000019	Islington	40.0	0.40			100.0	63.9
E09000020	Kensington and Chelsea	40.0	0.40			103.0	67.4
E09000026	Redbridge	40.0	0.40			71.7	0.0
E09000032	Wandsworth	40.0	0.40			105.1	86.9
E09000025	Newham	39.9	0.39			155.8	72.7
E09000004	Bexley	39.8	0.38			109.5	59.2
E09000005	Brent	39.8	0.38			103.1	32.7
E09000012	Hackney	39.8	0.38			103.1	81.7
E09000003	Barnet	39.3	0.33			109.0	57.8
E09000022	Lambeth	37.8	0.18			101.1	77.5
E09000023	Lewisham	30.3	-0.57			68.3	48.5
E09000013	Hammersmith and Fulham	23.6	-1.24			28.3	16.3
E09000028	Southwark	20.8	-1.53			23.8	12.4
E09000033	Westminster	19.3	-1.68			11.6	7.8
E09000030	Tower Hamlets	17.9	-1.82			28.8	13.3
E09000001	City of London	14.3	-2.18			8.3	0.7
E37000024	New Anglia						
E07000148	Norwich	50.0	1.41			48.8	14.9
E07000202	Ipswich	40.0	0.40			33.3	0.0
E07000145	Great Yarmouth	38.4	0.24			91.0	40.1
E07000144	Broadland	34.8	-0.12			103.5	56.8
E07000201	Forest Heath	34.4	-0.16			79.2	51.5
E07000206	Waveney	33.9	-0.21			99.4	52.7
E07000204	St Edmundsbury	31.0	-0.50			97.5	46.2
E07000200	Babergh	24.4	-1.16			64.9	27.7
E07000205	Suffolk Coastal	23.7	-1.23			50.0	20.9
E07000146	King's Lynn and West Norfolk	22.4	-1.37			52.4	21.1
E07000143	Breckland	21.7	-1.44			52.8	20.6
E07000149	South Norfolk	21.7	-1.44			60.7	22.6
E07000147	North Norfolk	21.0	-1.51			52.2	18.6
E07000203	Mid Suffolk	20.8	-1.53			101.9	34.2
E37000025	North East						
E08000023	South Tyneside	50.0	1.41			66.7	25.0
E08000022	North Tyneside	40.0	0.40			103.0	13.6
E08000024	Sunderland	40.0	0.40			98.0	9.3

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E08000037	Gateshead	40.0	0.40			101.0	52.1
E08000021	Newcastle upon Tyne	39.8	0.38			100.0	38.2
E06000047	County Durham	26.2	-0.98			70.1	31.0
E06000057	Northumberland	23.7	-1.23			57.0	24.1
E37000027	Oxfordshire						
E07000178	Oxford	50.0	1.41			25.0	0.0
E07000180	Vale of White Horse	40.0	0.40			86.9	17.0
E07000177	Cherwell	39.8	0.38			110.6	29.2
E07000179	South Oxfordshire	37.1	0.11			96.3	55.9
E07000181	West Oxfordshire	35.1	-0.09			75.5	41.0
E37000029	Solent						
E06000044	Portsmouth	50.0	1.41			25.0	0.0
E07000088	Gosport	50.0	1.41			25.0	9.2
E07000090	Havant	50.0	1.41			25.3	13.6
E07000087	Fareham	42.0	0.61			40.0	5.0
E06000045	Southampton	40.0	0.40			93.2	2.6
E07000086	Eastleigh	39.4	0.34			97.0	39.7
E07000093	Test Valley	38.8	0.28			125.6	71.7
E07000094	Winchester	30.0	-0.60			78.6	42.9
E07000085	East Hampshire	24.1	-1.19			34.6	18.7
E07000091	New Forest	22.8	-1.33			42.5	21.3
E06000046	Isle of Wight	22.0	-1.41			27.9	11.1
E37000030	South East						
E06000035	Medway	50.0	1.41			25.3	25.0
E07000073	Harlow	50.0	1.41			2.0	0.0
E07000112	Shepway	49.6	1.37			168.1	132.9
E06000033	Southend-on-Sea	40.0	0.40			78.6	4.4
E06000034	Thurrock	40.0	0.40			71.7	0.5
E07000066	Basildon	40.0	0.40			91.4	17.0
E07000071	Colchester	40.0	0.40			101.0	19.4
E07000109	Gravesham	40.0	0.40			89.6	4.4
E07000110	Maidstone	40.0	0.40			90.5	17.6
E07000072	Epping Forest	39.8	0.38			99.0	45.3
E07000105	Ashford	39.8	0.38			128.7	45.3
E07000107	Dartford	39.5	0.35			128.3	73.2
E07000115	Tonbridge and Malling	39.4	0.34			97.0	40.2
E07000113	Swale	39.3	0.33			110.2	63.8
E07000070	Chelmsford	38.1	0.21			109.3	56.1
E07000069	Castle Point	37.9	0.19			101.6	44.7
E07000116	Tunbridge Wells	34.9	-0.11			87.6	56.5
E07000061	Eastbourne	33.0	-0.30			124.5	63.4
E07000111	Sevenoaks	29.9	-0.61			74.9	42.4
E07000108	Dover	29.6	-0.64			75.1	41.0
E07000068	Brentwood	27.7	-0.83			82.2	40.6
E07000062	Hastings	26.5	-0.95			74.3	35.2
E07000075	Rochford	23.6	-1.24			43.0	21.6
E07000065	Wealden	23.4	-1.26			45.3	21.2
E07000063	Lewes	22.6	-1.35			34.5	14.1
E07000064	Rother	22.5	-1.36			42.4	17.8
E07000106	Canterbury	22.4	-1.37			56.6	21.1
E07000114	Thanet	22.4	-1.37			36.6	16.1
E07000076	Tendring	21.2	-1.49			47.2	17.8
E07000067	Braintree	21.1	-1.50			39.7	15.3
E07000077	Uttlesford	20.6	-1.55			44.1	18.4
E07000074	Maldon	20.1	-1.60			45.7	17.5
E37000032	Stoke-on-Trent and Staffordshire						
E06000021	Stoke-on-Trent	40.0	0.40			33.3	0.0
E07000194	Lichfield	40.0	0.40			100.0	13.6
E07000195	Newcastle-under-Lyme	40.0	0.40			117.4	17.3
E07000197	Stafford	40.0	0.40			88.7	2.0
E07000199	Tamworth	40.0	0.40			29.0	0.0
E07000192	Cannock Chase	35.0	-0.10			130.3	72.4
E07000193	East Staffordshire	31.5	-0.45			160.3	55.2
E07000196	South Staffordshire	23.8	-1.22			58.7	20.8

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E07000198	Staffordshire Moorlands	23.3	-1.27			34.7	14.2
E37000033	Swindon and Wiltshire						
E06000030	Swindon	40.0	0.40			95.1	6.4
E06000054	Wiltshire	35.0	-0.10			93.4	56.2
E37000034	Tees Valley						
E06000001	Hartlepool	55.0	1.91			10.0	10.0
E06000002	Middlesbrough	50.0	1.41			25.3	0.0
E06000003	Redcar and Cleveland	50.0	1.41			25.0	0.0
E06000004	Stockton-on-Tees	50.0	1.41			25.0	0.0
E06000005	Darlington	50.0	1.41			25.6	0.0
E37000035	Thames Valley Berkshire						
E06000036	Bracknell Forest	40.0	0.40			23.5	0.0
E06000038	Reading	40.0	0.40			33.3	0.0
E06000039	Slough	40.0	0.40			81.8	0.5
E06000041	Wokingham	40.0	0.40			33.3	0.0
E06000040	Windsor and Maidenhead	39.5	0.35			79.5	42.1
E06000037	West Berkshire	33.5	-0.25			75.4	48.2
E37000036	The Marches						
E06000020	Telford and Wrekin	40.0	0.40			81.8	0.0
E06000019	Herefordshire, County of	21.4	-1.47			146.0	32.9
E06000051	Shropshire	21.2	-1.49			49.3	17.1
E37000037	West of England						
E06000023	Bristol, City of	50.0	1.41			7.8	0.0
E06000025	South Gloucestershire	50.0	1.41			25.3	9.9
E06000022	Bath and North East Somerset	30.5	-0.55			68.5	41.2
E06000024	North Somerset	24.0	-1.20			61.1	31.1
E37000038	Worcestershire						
E07000236	Redditch	48.9	1.30			39.7	22.2
E07000239	Wyre Forest	40.0	0.40			103.0	19.8
E07000237	Worcester	39.5	0.35			156.5	44.2
E07000234	Bromsgrove	37.5	0.15			134.4	43.7
E07000238	Wychavon	26.9	-0.91			88.1	37.2
E07000235	Malvern Hills	21.3	-1.48			129.0	32.3
E37000039	York, North Yorkshire and East Riding						
E07000165	Harrogate	39.3	0.33			96.5	63.8
E06000011	East Riding of Yorkshire	33.5	-0.25			121.9	70.1
E06000014	York	32.1	-0.39			80.3	34.3
E07000164	Hambleton	27.4	-0.86			50.5	29.9
E07000169	Selby	24.4	-1.16			60.5	23.9
E07000167	Ryedale	23.7	-1.23			73.0	27.4
E07000168	Scarborough	23.0	-1.30			36.1	16.2
E07000163	Craven	22.1	-1.40			30.8	12.2
E07000166	Richmondshire	21.7	-1.44			47.6	23.3
E37000040	Sheffield City Region						
E07000034	Chesterfield	34.4	-0.16			140.6	59.3
E08000016	Barnsley	33.4	-0.26			106.2	64.5
E08000019	Sheffield	33.3	-0.27			116.2	66.5
E08000018	Rotherham	32.3	-0.37			112.5	63.1
E07000171	Bassetlaw	30.5	-0.55			121.0	49.5
E07000033	Bolsover	25.0	-1.10			46.2	22.0
E08000017	Doncaster	25.0	-1.10			47.9	24.4
E07000038	North East Derbyshire	23.9	-1.21			95.9	29.2
E07000035	Derbyshire Dales	20.0	-1.61			44.9	17.6
E37000041	South East Midlands						
E06000032	Luton	50.0	1.41			13.4	0.0
E07000154	Northampton	48.5	1.26			61.7	21.2
E06000055	Bedford	40.0	0.40			70.2	0.0
E06000056	Central Bedfordshire	40.0	0.40			88.7	22.3
E07000150	Corby	40.0	0.40			81.0	2.0
E07000153	Kettering	40.0	0.40			77.0	0.0
E07000156	Wellingborough	40.0	0.40			94.2	4.7
E07000152	East Northamptonshire	39.8	0.38			100.0	65.8
E07000177	Cherwell	39.8	0.38			110.6	29.2

Table 27: Median download speed (Mbit/s), 2018 (*continued*)

geo code	geo name	value	Zscore	% _{parent}	5yrs	3yrs	2yrs
E07000004	Aylesbury Vale	39.7	0.37			105.7	66.1
E06000042	Milton Keynes	37.3	0.13			140.6	71.1
E07000155	South Northamptonshire	32.6	-0.34			102.5	56.0
E07000151	Daventry	27.4	-0.86			60.2	29.2
E37000042	Greater Cambridge and Greater Peterborough						
E07000008	Cambridge	50.0	1.41			0.0	0.0
E06000031	Peterborough	40.0	0.40			19.0	0.0
E07000011	Huntingdonshire	40.0	0.40			73.2	4.4
E07000012	South Cambridgeshire	40.0	0.40			72.4	2.3
E07000099	North Hertfordshire	40.0	0.40			69.5	0.0
E07000141	South Kesteven	36.9	0.09			96.3	47.6
E07000009	East Cambridgeshire	35.0	-0.10			75.0	43.4
E07000201	Forest Heath	34.4	-0.16			79.2	51.5
E06000017	Rutland	32.4	-0.36			52.1	35.0
E07000204	St Edmundsbury	31.0	-0.50			97.5	46.2
E07000010	Fenland	24.6	-1.14			39.0	21.2
E07000146	King's Lynn and West Norfolk	22.4	-1.37			52.4	21.1
E07000140	South Holland	20.9	-1.52			38.4	21.5
E07000077	Uttlesford	20.6	-1.55			44.1	18.4

Source: Ofcom. Connected Nations Report. Fixed local and unitary authority. Available at: https://www.ofcom.org.uk/__data/assets/file/0014/131036/201809_fixed_laua_r02.zip

Mobile Broadband infrastructure

Table 28: 4G services, premises (indoor): signal from all operators (%), Threshold:-95dBm, 2018(*)

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	78.29					29.3
E37000023	London	95.99	2.75	122.6			7.9
E37000015	Greater Manchester	84.83	1.37	108.3			17.4
E37000001	Black Country	84.12	1.28	107.4			22.8
E37000020	Leeds City Region	82.76	1.11	105.7			20.0
E37000017	Hertfordshire	81.52	0.96	104.1			22.9
E37000012	Greater Birmingham and Solihull	80.88	0.88	103.3			31.1
E37000037	West of England	80.68	0.85	103.0			27.9
E37000025	North East	80.09	0.78	102.3			26.0
E37000022	Liverpool City Region	79.95	0.76	102.1			19.7
E37000035	Thames Valley Berkshire	79.80	0.74	101.9			23.5
E37000034	Tees Valley	78.91	0.63	100.8			12.4
E37000004	Coast to Capital	78.47	0.58	100.2			30.9
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	78.17	0.54	99.8			36.6
E37000040	Sheffield City Region	78.14	0.54	99.8			24.6
E37000019	Lancashire	77.74	0.49	99.3			25.8
E37000006	Coventry and Warwickshire	76.10	0.29	97.2			34.2
E37000029	Solent	75.21	0.18	96.1			42.2
E37000021	Leicester and Leicestershire	74.52	0.09	95.2			30.3
E37000009	Dorset	73.38	-0.05	93.7			35.8
E37000018	Humber	73.14	-0.08	93.4			32.5
E37000030	South East	73.04	-0.09	93.3			39.7
E37000041	South East Midlands	72.95	-0.10	93.2			47.0
E37000003	Cheshire and Warrington	72.60	-0.15	92.7			43.6
E37000033	Swindon and Wiltshire	72.54	-0.16	92.6			47.6
E37000010	Enterprise M3	71.82	-0.24	91.7			41.7
E37000002	Buckinghamshire Thames Valley	71.16	-0.33	90.9			26.5
E37000032	Stoke-on-Trent and Staffordshire	69.98	-0.47	89.4			44.4
E37000038	Worcestershire	69.76	-0.50	89.1			73.8
E37000042	Greater Cambridge and Greater Peterborough	68.87	-0.61	88.0			74.1
E37000039	York, North Yorkshire and East Riding	67.99	-0.72	86.8			63.8
E37000016	Heart of the South West	66.60	-0.89	85.1			59.5
E37000027	Oxfordshire	65.02	-1.09	83.0			40.0
E37000014	Greater Lincolnshire	64.15	-1.20	81.9			62.7
E37000011	Gloucestershire	64.10	-1.20	81.9			69.1
E37000024	New Anglia	62.38	-1.41	79.7			98.3
E37000036	The Marches	60.60	-1.63	77.4			72.2
E37000005	Cornwall and Isles of Scilly	59.86	-1.73	76.5			110.8
E37000007	Cumbria	56.27	-2.17	71.9			145.9

Source: Ofcom. Connected Nations Report. Mobile local and unitary authority. Available at: https://www.ofcom.org.uk/__data/assets/file/0009/131040/201809_mobile_laua_r02.zip (*) 2017 and 2018 LEP-level reaggregations done on the basis of 2017 housing stock

Table 29: 4G services, geographic (outdoor): signal from all operators (%), Threshold:-105dBm, 2018(*)

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	91.27					17.3
E37000023	London	99.93	1.15	109.5			0.4
E37000001	Black Country	99.85	1.14	109.4			1.2
E37000022	Liverpool City Region	99.02	1.05	108.5			5.6
E37000015	Greater Manchester	97.10	0.82	106.4			3.9
E37000017	Hertfordshire	96.67	0.77	105.9			7.9
E37000035	Thames Valley Berkshire	96.53	0.76	105.8			7.9
E37000034	Tees Valley	95.99	0.69	105.2			5.2
E37000014	Greater Lincolnshire	95.83	0.68	105.0			31.2
E37000018	Humber	95.73	0.67	104.9			9.9
E37000006	Coventry and Warwickshire	95.42	0.63	104.5			9.3
E37000042	Greater Cambridge and Greater Peterborough	95.25	0.61	104.4			33.9
E37000003	Cheshire and Warrington	94.42	0.51	103.5			15.6
E37000041	South East Midlands	94.23	0.49	103.2			18.9
E37000020	Leeds City Region	94.00	0.46	103.0			9.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	93.33	0.39	102.2			15.7
E37000021	Leicester and Leicestershire	93.28	0.38	102.2			24.1
E37000029	Solent	92.28	0.27	101.1			9.0
E37000027	Oxfordshire	92.07	0.24	100.9			18.0
E37000040	Sheffield City Region	91.89	0.22	100.7			17.1
E37000004	Coast to Capital	91.72	0.20	100.5			13.2
E37000030	South East	91.70	0.20	100.5			21.9
E37000012	Greater Birmingham and Solihull	91.68	0.20	100.4			13.1
E37000037	West of England	91.57	0.18	100.3			22.7
E37000010	Enterprise M3	90.84	0.10	99.5			12.6
E37000009	Dorset	90.52	0.06	99.2			12.0
E37000002	Buckinghamshire Thames Valley	89.94	-0.01	98.5			29.8
E37000025	North East	88.92	-0.12	97.4			7.8
E37000024	New Anglia	88.08	-0.22	96.5			72.4
E37000038	Worcestershire	88.00	-0.23	96.4			19.4
E37000032	Stoke-on-Trent and Staffordshire	87.16	-0.33	95.5			27.4
E37000019	Lancashire	86.85	-0.36	95.2			20.5
E37000033	Swindon and Wiltshire	85.36	-0.53	93.5			14.8
E37000011	Gloucestershire	85.30	-0.54	93.5			25.5
E37000039	York, North Yorkshire and East Riding	80.30	-1.12	88.0			25.0
E37000036	The Marches	75.77	-1.64	83.0			93.0
E37000005	Cornwall and Isles of Scilly	73.84	-1.87	80.9			73.1
E37000016	Heart of the South West	73.48	-1.91	80.5			43.2
E37000007	Cumbria	55.50	-3.99	60.8			127.5

Source: Ofcom. Connected Nations Report. Mobile local and unitary authority. Available at: https://www.ofcom.org.uk/___data/assets/file/0009/131040/201809_mobile_laua_r02.zip (*) 2017 and 2018 LEP-level reaggregations done on the basis of ONS Standard area measurements

Housing

Housing stock

Table 30: Dwelling stock, including vacants, 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	23,950,000			3.1	1.7	0.9	0.8	0.7	0.6
E37000023	London	3,524,450	4.89	14.7	3.5	2.0	1.1	0.9	0.8	0.7
E37000030	South East	1,805,140	1.93	7.5	2.9	1.7	0.9	0.8	0.7	0.5
E37000020	Leeds City Region	1,328,440	1.11	5.5	2.5	1.4	0.7	0.7	0.6	0.5
E37000015	Greater Manchester	1,203,320	0.89	5.0	2.0	1.2	0.7	0.5	0.5	0.4
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	963,460	0.48	4.0	2.5	1.5	0.8	0.7	0.6	0.4
E37000025	North East	911,710	0.39	3.8	40.8	1.6	0.9	0.6	0.6	37.9
E37000004	Coast to Capital	873,860	0.32	3.6	3.5	2.0	1.0	1.0	0.8	0.6
E37000041	South East Midlands	836,870	0.26	3.5	5.0	2.7	1.4	1.3	1.2	1.0
E37000012	Greater Birmingham and Solihull	820,720	0.23	3.4	2.1	1.2	0.5	0.6	0.5	0.4
E37000040	Sheffield City Region	820,670	0.23	3.4	2.5	1.4	0.8	0.7	0.6	0.4
E37000016	Heart of the South West	805,710	0.21	3.4	3.8	1.9	0.9	1.0	1.0	0.8
E37000024	New Anglia	760,310	0.13	3.2	3.0	1.7	0.9	0.8	0.7	0.6
E37000042	Greater Cambridge and Greater Peterborough	725,460	0.07	3.0	3.9	2.0	1.1	0.9	1.0	0.9
E37000010	Enterprise M3	713,950	0.05	3.0	2.8	1.7	0.9	0.8	0.6	0.5
E37000022	Liverpool City Region	702,470	0.03	2.9	2.5	1.4	0.9	0.5	0.6	0.4
E37000029	Solent	701,790	0.03	2.9	2.9	1.6	0.8	0.8	0.8	0.5
E37000019	Lancashire	670,820	-0.02	2.8	2.4	1.3	0.7	0.6	0.6	0.4
E37000039	York, North Yorkshire and East Riding	534,380	-0.26	2.2	2.6	1.5	0.8	0.7	0.6	0.5
E37000032	Stoke-on-Trent and Staffordshire	494,190	-0.33	2.1	2.3	1.3	0.8	0.5	0.6	0.4
E37000001	Black Country	492,890	-0.33	2.1	2.2	1.0	0.5	0.5	0.6	0.5
E37000037	West of England	489,520	-0.34	2.0	3.6	2.0	1.1	0.8	0.8	0.8
E37000017	Hertfordshire	487,700	-0.34	2.0	28.8	1.7	0.9	0.7	0.6	25.9
E37000014	Greater Lincolnshire	485,370	-0.34	2.0	2.5	1.2	0.6	0.6	0.7	0.6
E37000021	Leicester and Leicestershire	427,830	-0.44	1.8	4.5	2.5	1.3	1.2	1.1	0.8
E37000018	Humber	427,370	-0.44	1.8	2.2	1.1	0.5	0.5	0.5	0.6
E37000003	Cheshire and Warrington	419,960	-0.46	1.8	3.5	2.0	1.0	1.0	0.9	0.6
E37000006	Coventry and Warwickshire	390,990	-0.51	1.6	3.8	2.3	1.2	1.1	0.9	0.6
E37000035	Thames Valley Berkshire	368,590	-0.55	1.5	3.6	2.1	1.0	1.0	0.8	0.7
E37000009	Dorset	359,360	-0.56	1.5	2.5	1.4	0.7	0.7	0.6	0.4
E37000033	Swindon and Wiltshire	311,460	-0.64	1.3	4.5	2.6	1.5	1.1	0.9	0.9
E37000034	Tees Valley	305,290	-0.65	1.3	2.7	1.4	0.8	0.7	0.8	0.4
E37000036	The Marches	301,340	-0.66	1.3	3.8	2.1	1.1	1.0	0.9	0.7
E37000027	Oxfordshire	285,750	-0.69	1.2	4.7	2.9	1.5	1.4	1.1	0.6
E37000011	Gloucestershire	284,580	-0.69	1.2	4.1	2.0	1.0	1.0	1.0	1.0
E37000005	Cornwall and Isles of Scilly	275,350	-0.71	1.1	3.9	2.1	1.1	1.0	1.0	0.8
E37000038	Worcestershire	260,870	-0.73	1.1	3.8	1.9	0.9	1.1	1.0	0.8
E37000007	Cumbria	247,420	-0.75	1.0	2.3	1.3	0.6	0.7	0.6	0.4
E37000002	Buckinghamshire Thames Valley	219,990	-0.80	0.9	4.0	2.2	1.4	0.8	1.0	0.7

Source: MHCLG. Live tables on dwelling stock (including vacants). Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/710128/LT_100.xls

Housing supply

Table 31: Net additional new dwellings, 2018

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	222,194			62.7	17.2	2.2
E37000023	London	31,723	4.80	14.3	34.6	4.4	-19.8
E37000030	South East	17,503	2.10	7.9	96.0	18.7	12.8
E37000041	South East Midlands	12,921	1.24	5.8	63.2	21.2	12.3
E37000020	Leeds City Region	11,041	0.88	5.0	68.5	22.1	12.3
E37000016	Heart of the South West	8,972	0.49	4.0	37.1	11.8	27.9
E37000015	Greater Manchester	8,961	0.49	4.0	115.4	44.9	13.5
E37000004	Coast to Capital	8,326	0.37	3.7	52.5	-5.8	-3.4
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	8,308	0.36	3.7	97.4	27.0	12.1
E37000025	North East	7,362	0.18	3.3	145.5	26.4	-9.5
E37000042	Greater Cambridge and Greater Peterborough	7,315	0.17	3.3	13.7	12.9	-4.3
E37000012	Greater Birmingham and Solihull	6,917	0.10	3.1	108.7	34.9	55.3
E37000010	Enterprise M3	6,868	0.09	3.1	82.4	24.5	11.6
E37000040	Sheffield City Region	6,610	0.04	3.0	84.4	19.7	7.6
E37000024	New Anglia	6,080	-0.06	2.7	37.6	1.6	-6.2
E37000021	Leicester and Leicestershire	5,831	-0.11	2.6	72.1	16.1	7.7
E37000029	Solent	5,825	-0.11	2.6	79.6	6.3	2.3
E37000037	West of England	5,347	-0.20	2.4	44.8	32.9	0.0
E37000039	York, North Yorkshire and East Riding	5,327	-0.20	2.4	94.7	51.4	25.9
E37000022	Liverpool City Region	5,284	-0.21	2.4	76.1	41.5	-13.1
E37000003	Cheshire and Warrington	5,203	-0.23	2.3	109.1	32.2	21.7
E37000019	Lancashire	4,929	-0.28	2.2	70.8	19.7	9.0
E37000006	Coventry and Warwickshire	4,632	-0.33	2.1	106.2	9.2	2.6
E37000027	Oxfordshire	4,601	-0.34	2.1	166.6	22.3	7.6
E37000035	Thames Valley Berkshire	4,512	-0.36	2.0	90.3	20.6	22.6
E37000032	Stoke-on-Trent and Staffordshire	4,207	-0.41	1.9	96.9	83.2	7.5
E37000036	The Marches	3,700	-0.51	1.7	83.8	22.1	11.5
E37000011	Gloucestershire	3,577	-0.53	1.6	32.7	26.8	26.8
E37000017	Hertfordshire	3,438	-0.56	1.5	27.8	-3.3	-22.2
E37000005	Cornwall and Isles of Scilly	3,427	-0.56	1.5	68.9	31.9	11.4
E37000014	Greater Lincolnshire	3,253	-0.59	1.5	17.1	9.9	11.6
E37000033	Swindon and Wiltshire	3,216	-0.60	1.4	13.8	-0.7	-29.2
E37000018	Humber	3,026	-0.64	1.4	27.8	42.3	29.8
E37000001	Black Country	2,942	-0.65	1.3	24.9	16.1	16.3
E37000038	Worcestershire	2,837	-0.67	1.3	39.3	4.6	24.8
E37000002	Buckinghamshire Thames Valley	2,550	-0.73	1.1	63.5	39.8	-12.5
E37000034	Tees Valley	2,412	-0.75	1.1	115.2	21.9	3.3
E37000009	Dorset	2,270	-0.78	1.0	43.2	-9.1	-10.3
E37000007	Cumbria	1,754	-0.88	0.8	70.5	3.8	16.1

Source: MHCLG. Live tables on housing supply: net additional dwellings. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/756094/Live_Table_122.xls

Network / economic infrastructure

Journey times

Journey times to key services

Key services include medium-sized centres of employment, primary schools, secondary schools, further education, GPs, hospitals, food stores and town centres.

Table 32: Average of minimum journey times to key services (minutes), by car, 2016

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	10.60			2.9	3.9	
E37000005	Cornwall and Isles of Scilly	13.41	2.51	126.5	3.4	0.3	
E37000024	New Anglia	12.60	1.65	118.8	3.7	2.6	
E37000036	The Marches	12.57	1.62	118.6	1.3	2.8	
E37000033	Swindon and Wiltshire	12.51	1.55	118.0	6.3	4.1	
E37000029	Solent	12.51	1.55	118.0	5.3	4.1	
E37000042	Greater Cambridge and Greater Peterborough	12.13	1.15	114.4	4.9	2.7	
E37000039	York, North Yorkshire and East Riding	11.91	0.92	112.4	2.2	3.2	
E37000027	Oxfordshire	11.81	0.82	111.4	3.5	2.9	
E37000007	Cumbria	11.74	0.75	110.8	1.6	2.4	
E37000016	Heart of the South West	11.64	0.64	109.8	4.2	2.9	
E37000010	Enterprise M3	11.60	0.60	109.5	3.4	3.5	
E37000014	Greater Lincolnshire	11.53	0.52	108.8	0.8	2.5	
E37000032	Stoke-on-Trent and Staffordshire	11.42	0.40	107.7	9.1	2.5	
E37000011	Gloucestershire	11.11	0.08	104.9	3.4	4.4	
E37000009	Dorset	11.11	0.08	104.8	3.7	3.5	
E37000030	South East	10.99	-0.06	103.6	3.5	3.5	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	10.98	-0.07	103.6	3.3	4.9	
E37000018	Humber	10.94	-0.10	103.2	1.2	2.5	
E37000021	Leicester and Leicestershire	10.93	-0.12	103.1	6.1	5.4	
E37000037	West of England	10.89	-0.16	102.7	9.7	6.6	
E37000038	Worcestershire	10.89	-0.16	102.7	1.4	4.5	
E37000041	South East Midlands	10.84	-0.21	102.3	3.2	2.3	
E37000035	Thames Valley Berkshire	10.81	-0.24	102.0	5.0	5.5	
E37000002	Buckinghamshire Thames Valley	10.75	-0.31	101.4	2.5	4.1	
E37000003	Cheshire and Warrington	10.69	-0.37	100.9	4.1	3.8	
E37000006	Coventry and Warwickshire	10.54	-0.53	99.4	5.0	5.8	
E37000004	Coast to Capital	10.50	-0.57	99.0	2.5	4.4	
E37000040	Sheffield City Region	10.48	-0.59	98.9	1.0	4.2	
E37000034	Tees Valley	10.45	-0.63	98.6	6.1	4.8	
E37000020	Leeds City Region	10.41	-0.66	98.2	3.9	6.0	
E37000019	Lancashire	10.25	-0.83	96.7	3.1	3.3	
E37000017	Hertfordshire	10.22	-0.87	96.4	4.1	6.3	
E37000025	North East	10.13	-0.96	95.6	1.5	4.5	
E37000015	Greater Manchester	9.96	-1.14	94.0	5.1	6.9	
E37000012	Greater Birmingham and Solihull	9.92	-1.19	93.6	3.7	6.3	
E37000022	Liverpool City Region	9.54	-1.59	90.0	3.2	5.6	
E37000001	Black Country	9.51	-1.62	89.7	2.2	6.2	
E37000023	London	9.27	-1.87	87.4	3.5	7.5	

Source: DfT. Journey time statistics: data tables (JTS) . Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/747771/jts0101.ods

Table 33: Average of minimum journey times to key services (minutes), by cycle, 2016

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	15.10			10.2	0.7	
E37000005	Cornwall and Isles of Scilly	24.87	2.51	164.7	13.7	-1.2	
E37000036	The Marches	22.53	1.80	149.2	11.8	0.8	
E37000024	New Anglia	22.34	1.74	147.9	11.8	0.8	
E37000033	Swindon and Wiltshire	21.67	1.54	143.5	28.9	1.4	
E37000042	Greater Cambridge and Greater Peterborough	20.99	1.33	139.0	10.5	0.8	
E37000007	Cumbria	20.54	1.19	136.0	7.9	0.2	
E37000039	York, North Yorkshire and East Riding	19.99	1.03	132.4	9.6	0.4	
E37000014	Greater Lincolnshire	19.68	0.93	130.3	0.1	0.5	
E37000027	Oxfordshire	18.92	0.70	125.3	20.0	0.2	
E37000016	Heart of the South West	18.61	0.61	123.3	17.7	0.7	
E37000029	Solent	17.95	0.41	118.9	25.5	0.6	
E37000032	Stoke-on-Trent and Staffordshire	17.89	0.39	118.5	28.5	0.9	
E37000010	Enterprise M3	17.84	0.37	118.1	15.5	0.9	
E37000011	Gloucestershire	17.03	0.13	112.8	8.1	1.1	
E37000009	Dorset	16.95	0.10	112.2	21.2	0.8	
E37000038	Worcestershire	16.87	0.08	111.7	14.7	0.8	
E37000018	Humber	16.69	0.02	110.5	5.3	0.2	
E37000030	South East	16.37	-0.07	108.4	13.3	0.8	
E37000041	South East Midlands	16.26	-0.11	107.7	12.2	1.5	
E37000021	Leicester and Leicestershire	16.19	-0.13	107.2	18.5	2.1	
E37000002	Buckinghamshire Thames Valley	16.14	-0.14	106.9	9.9	0.8	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	15.78	-0.26	104.5	13.9	0.7	
E37000003	Cheshire and Warrington	15.54	-0.33	102.9	7.6	1.4	
E37000040	Sheffield City Region	14.97	-0.50	99.1	7.0	1.0	
E37000035	Thames Valley Berkshire	14.89	-0.53	98.6	15.4	0.6	
E37000006	Coventry and Warwickshire	14.63	-0.60	96.9	2.8	1.4	
E37000034	Tees Valley	14.52	-0.64	96.2	3.9	0.7	
E37000025	North East	14.47	-0.65	95.8	8.1	0.9	
E37000004	Coast to Capital	14.44	-0.66	95.6	7.4	1.0	
E37000019	Lancashire	14.37	-0.68	95.2	5.2	0.7	
E37000020	Leeds City Region	14.35	-0.69	95.1	7.9	2.3	
E37000037	West of England	14.33	-0.70	94.9	14.7	1.2	
E37000017	Hertfordshire	13.43	-0.97	88.9	8.3	0.8	
E37000012	Greater Birmingham and Solihull	13.11	-1.07	86.8	11.4	1.5	
E37000015	Greater Manchester	12.64	-1.21	83.7	8.3	3.3	
E37000022	Liverpool City Region	12.01	-1.40	79.5	4.2	1.0	
E37000001	Black Country	11.58	-1.53	76.7	0.8	0.9	
E37000023	London	10.09	-1.99	66.8	5.4	0.3	

Source: DfT. Journey time statistics: data tables (JTS) . Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/747771/jts0101.ods

Table 34: Average of minimum journey times to key services (minutes), by public transport, 2016

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	17.70			4.1	2.3	
E37000005	Cornwall and Isles of Scilly	27.07	2.25	152.9	4.7	0.9	
E37000036	The Marches	26.51	2.09	149.8	5.3	3.5	
E37000007	Cumbria	25.94	1.92	146.5	7.0	-0.4	
E37000024	New Anglia	24.47	1.49	138.2	10.8	1.8	
E37000039	York, North Yorkshire and East Riding	23.67	1.26	133.8	2.9	0.7	
E37000042	Greater Cambridge and Greater Peterborough	22.99	1.06	129.9	7.7	2.0	
E37000016	Heart of the South West	22.38	0.88	126.4	6.1	1.8	
E37000033	Swindon and Wiltshire	22.32	0.86	126.1	5.6	2.7	
E37000027	Oxfordshire	21.97	0.76	124.1	6.2	5.2	
E37000010	Enterprise M3	21.11	0.51	119.3	3.5	2.2	
E37000032	Stoke-on-Trent and Staffordshire	20.75	0.40	117.2	12.8	2.6	
E37000014	Greater Lincolnshire	20.70	0.39	117.0	9.3	1.3	
E37000029	Solent	20.37	0.29	115.1	6.9	1.8	
E37000011	Gloucestershire	20.08	0.20	113.4	1.4	2.6	
E37000038	Worcestershire	20.08	0.20	113.4	1.9	1.9	
E37000009	Dorset	19.73	0.10	111.4	5.4	2.3	
E37000002	Buckinghamshire Thames Valley	19.62	0.07	110.9	2.4	1.3	
E37000003	Cheshire and Warrington	19.54	0.05	110.4	6.2	2.7	
E37000041	South East Midlands	19.50	0.04	110.2	5.2	3.3	
E37000018	Humber	19.40	0.00	109.6	3.3	1.3	
E37000021	Leicester and Leicestershire	18.57	-0.24	104.9	6.1	2.2	
E37000030	South East	18.45	-0.27	104.2	3.0	2.1	
E37000035	Thames Valley Berkshire	18.16	-0.36	102.6	6.9	2.6	
E37000034	Tees Valley	18.07	-0.38	102.1	8.6	2.0	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	18.04	-0.39	101.9	3.2	1.6	
E37000006	Coventry and Warwickshire	17.74	-0.48	100.3	3.3	1.7	
E37000004	Coast to Capital	17.22	-0.63	97.3	3.9	2.9	
E37000040	Sheffield City Region	17.02	-0.69	96.2	-0.9	1.8	
E37000037	West of England	16.96	-0.71	95.8	6.2	2.6	
E37000020	Leeds City Region	16.88	-0.73	95.3	3.3	1.9	
E37000017	Hertfordshire	16.64	-0.80	94.0	4.1	2.2	
E37000019	Lancashire	16.27	-0.91	91.9	3.3	2.3	
E37000012	Greater Birmingham and Solihull	15.91	-1.02	89.9	2.9	2.6	
E37000025	North East	15.84	-1.04	89.5	0.7	2.6	
E37000015	Greater Manchester	15.36	-1.18	86.8	5.2	3.1	
E37000001	Black Country	14.58	-1.41	82.4	2.1	2.7	
E37000022	Liverpool City Region	14.38	-1.47	81.2	3.9	2.8	
E37000023	London	12.28	-2.08	69.4	4.4	3.0	

Source: DfT. Journey time statistics: data tables (JTS) . Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/747771/jts0101.ods

Journey times to transport links

Table 35: Average minimum journey times to nearest of selected airports (minutes), by car, 2015

geo code	geo name	Indicator		
		value	Zscore	% _{parent}
E92000001	England			
E37000001	Black Country			
E11000005	West Midlands (Birmingham)	36.25	-1.09	
E37000002	Buckinghamshire Thames Valley			
E10000002	Buckinghamshire (Heathrow T5)	48.56	-0.67	
E37000003	Cheshire and Warrington			
E06000050	Cheshire West and Chester (Manchester T2)	47.65	-0.31	
E06000049	Cheshire East (Manchester T3)	42.38	-0.45	
E06000007	Warrington (Manchester T2)	34.33	-0.68	
E37000004	Coast to Capital			
E10000011	East Sussex (Gatwick North Terminal)	75.97	0.27	
E06000043	Brighton and Hove (Gatwick North Terminal)	54.49	-0.11	
E10000032	West Sussex (Gatwick North Terminal)	52.29	-0.54	
E09000008	Croydon (Gatwick North Terminal)	45.93	-0.35	
E10000030	Surrey (Heathrow T5)	40.92	-0.93	
E37000005	Cornwall and Isles of Scilly			
E06000052	Cornwall (Bristol)	204.51	4.13	
E37000006	Coventry and Warwickshire			
E10000031	Warwickshire (Birmingham)	39.06	-0.99	
E11000005	West Midlands (Birmingham)	36.25	-1.09	
E37000007	Cumbria			
E10000006	Cumbria (Newcastle)	139.99	2.48	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E10000007	Derbyshire (East Midlands)	55.17	-0.44	
E10000024	Nottinghamshire (East Midlands)	50.94	-0.59	
E06000018	Nottingham (East Midlands)	35.80	-0.64	
E06000015	Derby (East Midlands)	33.84	-0.70	
E37000009	Dorset			
E06000029	Poole (Bristol)	130.54	2.04	
E06000028	Bournemouth (Heathrow T5)	127.63	1.96	
E10000009	Dorset (Bristol)	113.52	1.57	
E37000010	Enterprise M3			
E10000014	Hampshire (Heathrow T5)	80.86	0.44	
E10000030	Surrey (Heathrow T5)	40.92	-0.93	
E37000011	Gloucestershire			
E10000013	Gloucestershire (Bristol)	76.55	0.29	
E37000012	Greater Birmingham and Solihull			
E10000028	Staffordshire (Birmingham)	58.12	-0.34	
E10000034	Worcestershire (Birmingham)	51.53	-0.57	
E11000005	West Midlands (Birmingham)	36.25	-1.09	
E37000014	Greater Lincolnshire			
E06000012	North East Lincolnshire (Leeds)	135.93	2.19	
E06000013	North Lincolnshire (Leeds)	104.95	1.31	
E10000019	Lincolnshire (East Midlands)	102.88	1.20	
E37000015	Greater Manchester			
E11000001	Greater Manchester (Manchester T2)	32.33	-1.23	
E37000016	Heart of the South West			
E06000026	Plymouth (Bristol)	159.83	2.87	
E06000027	Torbay (Bristol)	130.49	2.04	
E10000008	Devon (Bristol)	114.92	1.61	
E10000027	Somerset (Bristol)	61.19	-0.23	
E37000017	Hertfordshire			
E10000015	Hertfordshire (Luton)	40.55	-0.94	
E37000018	Humber			
E06000012	North East Lincolnshire (Leeds)	135.93	2.19	
E06000010	Kingston upon Hull, City of (Leeds)	120.18	1.74	
E06000011	East Riding of Yorkshire (Leeds)	108.22	1.41	
E06000013	North Lincolnshire (Leeds)	104.95	1.31	
E37000019	Lancashire			
E06000009	Blackpool (Manchester T2)	83.97	0.72	
E10000017	Lancashire (Manchester T2)	73.02	0.17	
E06000008	Blackburn with Darwen (Manchester T2)	65.68	0.20	

Table 35: Average minimum journey times to nearest of selected airports (minutes), by car, 2015 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000020	Leeds City Region			
E11000003	South Yorkshire (Leeds)	83.39	0.53	
E10000023	North Yorkshire (Leeds)	71.65	0.13	
E06000014	York (Leeds)	63.23	0.14	
E11000006	West Yorkshire (Leeds)	40.38	-0.95	
E37000021	Leicester and Leicestershire			
E06000016	Leicester (East Midlands)	40.28	-0.51	
E10000018	Leicestershire (East Midlands)	36.78	-1.07	
E37000022	Liverpool City Region			
E11000002	Merseyside (Liverpool John Lennon)	36.18	-1.09	
E06000006	Halton (Liverpool John Lennon)	25.61	-0.93	
E37000023	London			
E09000003	Barnet (Luton)	50.23	-0.23	
E09000024	Merton (Heathrow T2)	49.27	-0.26	
E09000007	Camden (London City)	46.63	-0.33	
E09000006	Bromley (London City)	45.99	-0.35	
E09000008	Croydon (Gatwick North Terminal)	45.93	-0.35	
E09000010	Enfield (London City)	44.69	-0.39	
E09000014	Haringey (London City)	43.99	-0.41	
E09000022	Lambeth (London City)	43.23	-0.43	
E09000005	Brent (Heathrow T2)	42.47	-0.45	
E09000029	Sutton (Gatwick North Terminal)	42.08	-0.46	
E09000032	Wandsworth (Heathrow T2)	41.51	-0.48	
E09000021	Kingston upon Thames (Heathrow T4)	41.01	-0.49	
E09000033	Westminster (Heathrow T2)	40.55	-0.51	
E09000015	Harrow (Heathrow T2)	40.46	-0.51	
E09000019	Islington (London City)	39.11	-0.55	
E09000004	Bexley (London City)	39.11	-0.55	
E09000016	Havering (London City)	39.04	-0.55	
E09000023	Lewisham (London City)	35.40	-0.65	
E09000020	Kensington and Chelsea (Heathrow T2)	33.97	-0.69	
E09000031	Waltham Forest (London City)	32.53	-0.73	
E09000028	Southwark (London City)	32.52	-0.73	
E09000012	Hackney (London City)	32.13	-0.74	
E09000013	Hammersmith and Fulham (Heathrow T2)	31.21	-0.77	
E09000001	City of London (London City)	31.05	-0.77	
E09000011	Greenwich (London City)	30.52	-0.79	
E09000026	Redbridge (London City)	29.88	-0.81	
E09000027	Richmond upon Thames (Heathrow T4)	28.71	-0.84	
E09000009	Ealing (Heathrow T2)	28.31	-0.85	
E09000002	Barking and Dagenham (London City)	27.46	-0.88	
E09000017	Hillingdon (Heathrow T2)	22.45	-1.02	
E09000030	Tower Hamlets (London City)	21.41	-1.05	
E09000018	Hounslow (Heathrow T4)	20.32	-1.08	
E09000025	Newham (London City)	18.83	-1.12	
E37000024	New Anglia			
E10000020	Norfolk (Stansted)	129.53	2.12	
E10000029	Suffolk (Stansted)	99.20	1.07	
E37000025	North East			
E06000047	County Durham (Newcastle)	58.76	0.01	
E37000027	Oxfordshire			
E10000025	Oxfordshire (Heathrow T5)	83.43	0.53	
E37000029	Solent			
E06000044	Portsmouth (Gatwick South Terminal)	104.45	1.30	
E06000045	Southampton (Heathrow T5)	90.75	0.91	
E10000014	Hampshire (Heathrow T5)	80.86	0.44	
E37000030	South East			
E10000016	Kent (Gatwick North Terminal)	88.35	0.70	
E06000035	Medway (London City)	78.00	0.55	
E10000011	East Sussex (Gatwick North Terminal)	75.97	0.27	
E06000033	Southend-on-Sea (Stansted)	75.60	0.48	
E10000012	Essex (Stansted)	54.03	-0.48	
E06000034	Thurrock (London City)	48.48	-0.28	
E37000032	Stoke-on-Trent and Staffordshire			
E06000021	Stoke-on-Trent (Manchester T3)	67.20	0.25	

Table 35: Average minimum journey times to nearest of selected airports (minutes), by car, 2015 (*continued*)

geo code	geo name	value	Zscore	%parent
E10000028	Staffordshire (Birmingham)	58.12	-0.34	
E37000033	Swindon and Wiltshire			
E06000030	Swindon (Bristol)	83.23	0.70	
E06000054	Wiltshire (Bristol)	81.25	0.64	
E37000034	Tees Valley			
E06000003	Redcar and Cleveland (Newcastle)	111.40	1.50	
E06000002	Middlesbrough (Newcastle)	97.28	1.10	
E06000004	Stockton-on-Tees (Newcastle)	85.33	0.76	
E06000001	Hartlepool (Newcastle)	82.04	0.67	
E06000005	Darlington (Newcastle)	79.51	0.60	
E37000035	Thames Valley Berkshire			
E06000037	West Berkshire (Heathrow T5)	62.14	0.10	
E06000038	Reading (Heathrow T5)	48.15	-0.29	
E06000041	Wokingham (Heathrow T5)	41.38	-0.48	
E06000036	Bracknell Forest (Heathrow T5)	37.77	-0.58	
E06000040	Windsor and Maidenhead (Heathrow T5)	27.05	-0.89	
E06000039	Slough (Heathrow T5)	22.59	-1.01	
E37000036	The Marches			
E06000019	Herefordshire, County of (Birmingham)	97.39	1.10	
E06000051	Shropshire (Birmingham)	88.52	0.85	
E06000020	Telford and Wrekin (Birmingham)	68.82	0.29	
E37000037	West of England			
E06000022	Bath and North East Somerset (Bristol)	43.73	-0.42	
E06000025	South Gloucestershire (Bristol)	42.64	-0.45	
E06000023	Bristol, City of (Bristol)	29.65	-0.81	
E06000024	North Somerset (Bristol)	27.50	-0.88	
E37000038	Worcestershire			
E10000034	Worcestershire (Birmingham)	51.53	-0.57	
E37000039	York, North Yorkshire and East Riding			
E06000011	East Riding of Yorkshire (Leeds)	108.22	1.41	
E10000023	North Yorkshire (Leeds)	71.65	0.13	
E06000014	York (Leeds)	63.23	0.14	
E37000040	Sheffield City Region			
E11000003	South Yorkshire (Leeds)	83.39	0.53	
E10000007	Derbyshire (East Midlands)	55.17	-0.44	
E10000024	Nottinghamshire (East Midlands)	50.94	-0.59	
E37000041	South East Midlands			
E10000025	Oxfordshire (Heathrow T5)	83.43	0.53	
E10000021	Northamptonshire (Birmingham)	79.60	0.40	
E06000055	Bedford (Luton)	50.96	-0.21	
E06000042	Milton Keynes (Luton)	49.44	-0.26	
E10000002	Buckinghamshire (Heathrow T5)	48.56	-0.67	
E06000056	Central Bedfordshire (Luton)	36.40	-0.62	
E06000032	Luton (Luton)	17.33	-1.16	
E37000042	Greater Cambridge and Greater Peterborough			
E10000020	Norfolk (Stansted)	129.53	2.12	
E10000019	Lincolnshire (East Midlands)	102.88	1.20	
E10000029	Suffolk (Stansted)	99.20	1.07	
E06000031	Peterborough (Stansted)	97.60	1.11	
E06000017	Rutland (East Midlands)	69.84	0.32	
E10000003	Cambridgeshire (Stansted)	62.69	-0.18	
E10000012	Essex (Stansted)	54.03	-0.48	
E10000015	Hertfordshire (Luton)	40.55	-0.94	

Source: DfT. Journey time statistics: data tables (JTS) . Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/748228/jts0901.ods

Table 36: Average minimum journey times to nearest of selected airports (minutes), by public transport, 2015

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England			
E37000001	Black Country			
E11000005	West Midlands (Birmingham)	61.76	-1.68	
E37000002	Buckinghamshire Thames Valley			
E10000002	Buckinghamshire (Heathrow T2)	101.74	-0.21	
E37000003	Cheshire and Warrington			
E06000050	Cheshire West and Chester (Manchester T1)	97.43	0.32	
E06000049	Cheshire East (Manchester T3)	74.52	-0.31	
E06000007	Warrington (Manchester T1)	67.19	-0.51	
E37000004	Coast to Capital			
E10000011	East Sussex (Gatwick North Terminal)	102.00	-0.20	
E10000030	Surrey (Heathrow T2)	87.35	-0.74	
E10000032	West Sussex (Gatwick North Terminal)	73.93	-1.23	
E06000043	Brighton and Hove (Gatwick North Terminal)	62.95	-0.63	
E09000008	Croydon (Gatwick North Terminal)	52.37	-0.92	
E37000005	Cornwall and Isles of Scilly			
E37000006	Coventry and Warwickshire			
E10000031	Warwickshire (Birmingham)	76.97	-1.12	
E11000005	West Midlands (Birmingham)	61.76	-1.68	
E37000007	Cumbria			
E10000006	Cumbria (Newcastle)	160.75	1.95	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E10000024	Nottinghamshire (East Midlands)	106.58	-0.04	
E10000007	Derbyshire (East Midlands)	104.17	-0.12	
E06000018	Nottingham (East Midlands)	77.19	-0.24	
E06000015	Derby (East Midlands)	68.51	-0.47	
E37000009	Dorset			
E06000029	Poole (Heathrow T5)	173.71	2.40	
E06000028	Bournemouth (Heathrow T5)	162.23	2.09	
E10000009	Dorset (Heathrow T4)	158.60	1.87	
E37000010	Enterprise M3			
E10000014	Hampshire (Heathrow T2)	129.02	0.79	
E10000030	Surrey (Heathrow T2)	87.35	-0.74	
E37000011	Gloucestershire			
E10000013	Gloucestershire (Heathrow T2)	127.62	0.73	
E37000012	Greater Birmingham and Solihull			
E10000034	Worcestershire (Birmingham)	107.41	-0.01	
E10000028	Staffordshire (Manchester T1)	105.66	-0.07	
E11000005	West Midlands (Birmingham)	61.76	-1.68	
E37000014	Greater Lincolnshire			
E06000013	North Lincolnshire (Leeds)	157.65	1.96	
E10000019	Lincolnshire (East Midlands)	149.38	1.53	
E37000015	Greater Manchester			
E11000001	Greater Manchester (Manchester T1)	70.36	-1.36	
E37000016	Heart of the South West			
E06000026	Plymouth (..)	178.76	2.54	
E06000027	Torbay (Bristol)	164.00	2.14	
E10000008	Devon (Bristol)	145.11	1.37	
E10000027	Somerset (Bristol)	121.50	0.51	
E37000017	Hertfordshire			
E10000015	Hertfordshire (Luton)	80.51	-0.99	
E37000018	Humber			
E06000013	North Lincolnshire (Leeds)	157.65	1.96	
E06000011	East Riding of Yorkshire (Leeds)	142.07	1.54	
E06000010	Kingston upon Hull, City of (Leeds)	139.95	1.48	
E37000019	Lancashire			
E06000009	Blackpool (Liverpool John Lennon)	130.48	1.22	
E10000017	Lancashire (Manchester T1)	121.56	0.51	
E06000008	Blackburn with Darwen (Manchester T1)	112.11	0.72	
E37000020	Leeds City Region			
E11000003	South Yorkshire (Leeds)	126.74	0.70	
E10000023	North Yorkshire (Leeds)	113.06	0.20	
E06000014	York (Leeds)	103.41	0.48	
E11000006	West Yorkshire (Leeds)	79.88	-1.01	

Table 36: Average minimum journey times to nearest of selected airports (minutes), by public transport, 2015
(continued)

geo code	geo name	value	Zscore	%parent
E37000021	Leicester and Leicestershire			
E10000018	Leicestershire (East Midlands)	91.16	-0.60	
E06000016	Leicester (East Midlands)	87.15	0.04	
E37000022	Liverpool City Region			
E11000002	Merseyside (Liverpool John Lennon)	65.47	-1.54	
E06000006	Halton (Liverpool John Lennon)	47.40	-1.05	
E37000023	London			
E09000010	Enfield (London City)	79.63	-0.17	
E09000021	Kingston upon Thames (Heathrow T2)	77.13	-0.24	
E09000006	Bromley (London City)	75.47	-0.28	
E09000015	Harrow (Heathrow T2)	72.63	-0.36	
E09000003	Barnet (Luton)	71.57	-0.39	
E09000014	Haringey (London City)	70.26	-0.43	
E09000024	Merton (Gatwick North Terminal)	67.91	-0.49	
E09000016	Havering (London City)	66.79	-0.52	
E09000022	Lambeth (London City)	63.89	-0.60	
E09000031	Waltham Forest (London City)	63.87	-0.60	
E09000005	Brent (London City)	61.07	-0.68	
E09000032	Wandsworth (London City)	60.11	-0.70	
E09000019	Islington (London City)	58.26	-0.75	
E09000029	Sutton (Gatwick North Terminal)	56.51	-0.80	
E09000026	Redbridge (London City)	56.44	-0.80	
E09000012	Hackney (London City)	56.17	-0.81	
E09000007	Camden (London City)	56.14	-0.81	
E09000023	Lewisham (London City)	55.48	-0.83	
E09000002	Barking and Dagenham (London City)	55.18	-0.84	
E09000027	Richmond upon Thames (Heathrow T4)	54.16	-0.87	
E09000013	Hammersmith and Fulham (Heathrow T2)	53.47	-0.89	
E09000028	Southwark (London City)	52.65	-0.91	
E09000008	Croydon (Gatwick North Terminal)	52.37	-0.92	
E09000004	Bexley (London City)	50.27	-0.97	
E09000020	Kensington and Chelsea (Heathrow T2)	48.92	-1.01	
E09000009	Ealing (Heathrow T2)	47.60	-1.05	
E09000001	City of London (London City)	45.54	-1.10	
E09000017	Hillingdon (Heathrow T2)	45.49	-1.10	
E09000033	Westminster (London City)	44.38	-1.13	
E09000011	Greenwich (London City)	39.65	-1.26	
E09000030	Tower Hamlets (London City)	39.25	-1.27	
E09000018	Hounslow (Heathrow T2)	37.59	-1.32	
E09000025	Newham (London City)	35.66	-1.37	
E37000024	New Anglia			
E10000020	Norfolk (Stansted)	142.80	1.29	
E10000029	Suffolk (Stansted)	131.30	0.87	
E37000025	North East			
E06000047	County Durham (Newcastle)	103.13	0.47	
E37000027	Oxfordshire			
E10000025	Oxfordshire (Heathrow T2)	121.13	0.50	
E37000029	Solent			
E06000045	Southampton (Heathrow T5)	134.02	1.32	
E10000014	Hampshire (Heathrow T2)	129.02	0.79	
E06000044	Portsmouth (Gatwick North Terminal)	123.95	1.04	
E37000030	South East			
E10000016	Kent (London City)	106.17	-0.05	
E10000011	East Sussex (Gatwick North Terminal)	102.00	-0.20	
E10000012	Essex (Stansted)	98.88	-0.32	
E06000033	Southend-on-Sea (Stansted)	93.53	0.21	
E06000035	Medway (London City)	89.89	0.11	
E06000034	Thurrock (London City)	74.93	-0.30	
E37000032	Stoke-on-Trent and Staffordshire			
E10000028	Staffordshire (Manchester T1)	105.66	-0.07	
E06000021	Stoke-on-Trent (Manchester T1)	98.24	0.34	
E37000033	Swindon and Wiltshire			
E06000054	Wiltshire (Bristol)	120.29	0.94	
E06000030	Swindon (Heathrow T2)	111.92	0.71	

Table 36: Average minimum journey times to nearest of selected airports (minutes), by public transport, 2015
(continued)

geo code	geo name	value	Zscore	%parent
E37000034	Tees Valley			
E06000003	Redcar and Cleveland (Newcastle)	155.82	1.91	
E06000002	Middlesbrough (Newcastle)	149.71	1.75	
E06000004	Stockton-on-Tees (Newcastle)	133.01	1.29	
E06000001	Hartlepool (Newcastle)	124.73	1.06	
E06000005	Darlington (Newcastle)	108.27	0.61	
E37000035	Thames Valley Berkshire			
E06000037	West Berkshire (Heathrow T2)	111.74	0.71	
E06000041	Wokingham (Heathrow T2)	98.60	0.35	
E06000036	Bracknell Forest (Heathrow T2)	91.83	0.16	
E06000038	Reading (Heathrow T2)	84.32	-0.04	
E06000040	Windsor and Maidenhead (Heathrow T2)	78.92	-0.19	
E06000039	Slough (Heathrow T5)	54.45	-0.86	
E37000036	The Marches			
E06000019	Herefordshire, County of (Bristol)	147.12	1.67	
E06000051	Shropshire (Birmingham)	118.78	0.90	
E06000020	Telford and Wrekin (Birmingham)	105.55	0.54	
E37000037	West of England			
E06000025	South Gloucestershire (Bristol)	83.50	-0.06	
E06000022	Bath and North East Somerset (Bristol)	78.94	-0.19	
E06000024	North Somerset (Bristol)	63.50	-0.61	
E06000023	Bristol, City of (Bristol)	54.81	-0.85	
E37000038	Worcestershire			
E10000034	Worcestershire (Birmingham)	107.41	-0.01	
E37000039	York, North Yorkshire and East Riding			
E06000011	East Riding of Yorkshire (Leeds)	142.07	1.54	
E10000023	North Yorkshire (Leeds)	113.06	0.20	
E06000014	York (Leeds)	103.41	0.48	
E37000040	Sheffield City Region			
E11000003	South Yorkshire (Leeds)	126.74	0.70	
E10000024	Nottinghamshire (East Midlands)	106.58	-0.04	
E10000007	Derbyshire (East Midlands)	104.17	-0.12	
E37000041	South East Midlands			
E10000025	Oxfordshire (Heathrow T2)	121.13	0.50	
E10000021	Northamptonshire (Luton)	112.94	0.20	
E10000002	Buckinghamshire (Heathrow T2)	101.74	-0.21	
E06000042	Milton Keynes (Luton)	89.54	0.10	
E06000055	Bedford (Luton)	73.18	-0.35	
E06000056	Central Bedfordshire (Luton)	66.95	-0.52	
E06000032	Luton (Luton)	33.01	-1.44	
E37000042	Greater Cambridge and Greater Peterborough			
E10000019	Lincolnshire (East Midlands)	149.38	1.53	
E10000020	Norfolk (Stansted)	142.80	1.29	
E10000029	Suffolk (Stansted)	131.30	0.87	
E06000017	Rutland (East Midlands)	127.38	1.13	
E06000031	Peterborough (Stansted)	121.25	0.97	
E10000003	Cambridgeshire (Stansted)	105.06	-0.09	
E10000012	Essex (Stansted)	98.88	-0.32	
E10000015	Hertfordshire (Luton)	80.51	-0.99	

Source: DfT. Journey time statistics: data tables (JTS). Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/748228/jts0901.ods

Table 37: Average minimum journey times to nearest of selected rail stations (minutes), by car, 2015

geo code	geo name	Indicator		
		value	Zscore	%parent
E9200001	England			
E37000001	Black Country			
E11000005	West Midlands (Birmingham Moor Street)	28.72	-0.94	
E37000002	Buckinghamshire Thames Valley			
E10000002	Buckinghamshire (Watford Junction)	51.65	0.22	
E37000003	Cheshire and Warrington			
E06000050	Cheshire West and Chester (Warrington Bank Quay)	38.99	0.11	
E06000049	Cheshire East (Crewe)	32.10	-0.11	
E06000007	Warrington (Warrington Bank Quay)	15.77	-0.63	
E37000004	Coast to Capital			
E10000011	East Sussex (Haywards Heath)	56.23	0.46	
E10000032	West Sussex (Haywards Heath)	43.89	-0.17	
E10000030	Surrey (Woking)	35.65	-0.59	
E09000008	Croydon (East Croydon)	15.90	-0.63	
E06000043	Brighton and Hove (Brighton)	14.18	-0.68	
E37000005	Cornwall and Isles of Scilly			
E06000052	Cornwall (Bristol Parkway)	206.78	5.49	
E37000006	Coventry and Warwickshire			
E10000031	Warwickshire (Coventry)	33.12	-0.72	
E11000005	West Midlands (Birmingham Moor Street)	28.72	-0.94	
E37000007	Cumbria			
E10000006	Cumbria (Carlisle)	61.81	0.74	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E10000007	Derbyshire (Nottingham)	55.90	0.44	
E06000015	Derby (Nottingham)	43.36	0.25	
E10000024	Nottinghamshire (Nottingham)	36.29	-0.56	
E06000018	Nottingham (Nottingham)	15.97	-0.63	
E37000009	Dorset			
E10000009	Dorset (Southampton Central)	77.87	1.56	
E06000029	Poole (Southampton Central)	64.16	0.92	
E06000028	Bournemouth (Southampton Central)	56.47	0.67	
E37000010	Enterprise M3			
E10000014	Hampshire (Winchester)	40.49	-0.34	
E10000030	Surrey (Woking)	35.65	-0.59	
E37000011	Gloucestershire			
E10000013	Gloucestershire (Bristol Parkway)	56.14	0.45	
E37000012	Greater Birmingham and Solihull			
E10000034	Worcestershire (Birmingham New Street)	50.06	0.14	
E10000028	Staffordshire (Wolverhampton)	48.24	0.05	
E11000005	West Midlands (Birmingham Moor Street)	28.72	-0.94	
E37000014	Greater Lincolnshire			
E06000012	North East Lincolnshire (Hull)	70.10	1.11	
E10000019	Lincolnshire (Newark North Gate)	58.07	0.55	
E06000013	North Lincolnshire (Doncaster)	49.58	0.45	
E37000015	Greater Manchester			
E11000001	Greater Manchester (Manchester Picadilly)	27.92	-0.98	
E37000016	Heart of the South West			
E06000026	Plymouth (Bristol Parkway)	171.95	4.37	
E06000027	Torbay (Bristol Parkway)	142.61	3.43	
E10000008	Devon (Bristol Parkway)	127.04	4.05	
E10000027	Somerset (Bristol Temple Meads)	75.77	1.45	
E37000017	Hertfordshire			
E10000015	Hertfordshire (Watford Junction)	35.48	-0.60	
E37000018	Humber			
E06000012	North East Lincolnshire (Hull)	70.10	1.11	
E06000013	North Lincolnshire (Doncaster)	49.58	0.45	
E06000011	East Riding of Yorkshire (Hull)	38.96	0.11	
E06000010	Kingston upon Hull, City of (Hull)	16.70	-0.60	
E37000019	Lancashire			
E06000009	Blackpool (Preston)	41.60	0.19	
E10000017	Lancashire (Preston)	38.74	-0.43	
E06000008	Blackburn with Darwen (Preston)	32.88	-0.09	
E37000020	Leeds City Region			
E10000023	North Yorkshire (York)	59.98	0.65	

Table 37: Average minimum journey times to nearest of selected rail stations (minutes), by car, 2015 (*continued*)

geo code	geo name	value	Zscore	%parent
E11000003	South Yorkshire (Sheffield)	31.48	-0.80	
E11000006	West Yorkshire (Leeds)	30.81	-0.83	
E06000014	York (York)	16.62	-0.61	
E37000021	Leicester and Leicestershire			
E10000018	Leicestershire (Nottingham)	53.92	0.34	
E06000016	Leicester (Coventry)	52.19	0.53	
E37000022	Liverpool City Region			
E11000002	Merseyside (Liverpool Lime Street (High Level))	24.95	-1.13	
E06000006	Halton (Warrington Bank Quay)	24.11	-0.37	
E37000023	London			
E09000017	Hillingdon (Richmond (Greater London))	36.06	0.02	
E09000010	Enfield (Barking)	35.09	-0.01	
E09000003	Barnet (Watford Junction)	30.06	-0.18	
E09000011	Greenwich (London Bridge)	28.29	-0.23	
E09000009	Ealing (Richmond (Greater London))	26.69	-0.28	
E09000004	Bexley (Ebbsfleet International)	26.48	-0.29	
E09000014	Haringey (London St Pancras)	26.06	-0.30	
E09000015	Harrow (Watford Junction)	25.29	-0.33	
E09000005	Brent (London Paddington)	25.29	-0.33	
E09000023	Lewisham (London Bridge)	23.22	-0.39	
E09000029	Sutton (Wimbledon)	22.75	-0.41	
E09000021	Kingston upon Thames (Richmond (Greater London))	21.64	-0.45	
E09000031	Waltham Forest (Stratford (London))	20.88	-0.47	
E09000013	Hammersmith and Fulham (Richmond (Greater London))	19.97	-0.50	
E09000006	Bromley (Bromley South)	19.09	-0.53	
E09000018	Hounslow (Richmond (Greater London))	18.50	-0.55	
E09000012	Hackney (London Liverpool Street)	18.35	-0.55	
E09000026	Redbridge (Barking)	18.07	-0.56	
E09000020	Kensington and Chelsea (London Paddington)	15.93	-0.63	
E09000008	Croydon (East Croydon)	15.90	-0.63	
E09000030	Tower Hamlets (London Fenchurch Street)	15.89	-0.63	
E09000024	Merton (Wimbledon)	15.29	-0.65	
E09000032	Wandsworth (Clapham Junction)	15.25	-0.65	
E09000022	Lambeth (Vauxhall)	14.88	-0.66	
E09000019	Islington (London Kings Cross)	14.86	-0.66	
E09000028	Southwark (London Bridge)	14.77	-0.67	
E09000025	Newham (Stratford (London))	14.75	-0.67	
E09000007	Camden (London St Pancras)	14.68	-0.67	
E09000002	Barking and Dagenham (Barking)	14.03	-0.69	
E09000016	Havering (Romford)	13.97	-0.69	
E09000027	Richmond upon Thames (Richmond (Greater London))	13.46	-0.71	
E09000033	Westminster (London Marylebone)	13.01	-0.72	
E09000001	City of London (London Blackfriars)	10.45	-0.80	
E37000024	New Anglia			
E10000029	Suffolk (Ipswich)	43.83	-0.17	
E10000020	Norfolk (Norwich)	42.12	-0.26	
E37000025	North East			
E06000047	County Durham (Darlington)	43.64	0.26	
E37000027	Oxfordshire			
E10000025	Oxfordshire (Oxford)	31.11	-0.82	
E37000029	Solent			
E06000044	Portsmouth (Southampton Central)	41.99	0.21	
E10000014	Hampshire (Winchester)	40.49	-0.34	
E06000045	Southampton (Southampton Central)	13.80	-0.70	
E37000030	South East			
E10000011	East Sussex (Haywards Heath)	56.23	0.46	
E10000016	Kent (Ashford International)	47.64	0.02	
E10000012	Essex (Chelmsford)	41.50	-0.29	
E06000033	Southend-on-Sea (Billericay)	40.42	0.16	
E06000035	Medway (Ebbsfleet International)	34.12	-0.05	
E06000034	Thurrock (Ebbsfleet International)	32.15	-0.11	
E37000032	Stoke-on-Trent and Staffordshire			
E10000028	Staffordshire (Wolverhampton)	48.24	0.05	
E06000021	Stoke-on-Trent (Crewe)	38.71	0.10	
E37000033	Swindon and Wiltshire			

Table 37: Average minimum journey times to nearest of selected rail stations (minutes), by car, 2015 (*continued*)

geo code	geo name	value	Zscore	%parent
E06000054	Wiltshire (Bristol Parkway)	69.80	1.10	
E06000030	Swindon (Oxford)	55.06	0.63	
E37000034	Tees Valley			
E06000003	Redcar and Cleveland (Darlington)	53.93	0.59	
E06000001	Hartlepool (Darlington)	50.17	0.47	
E06000002	Middlesbrough (Darlington)	39.07	0.11	
E06000004	Stockton-on-Tees (Darlington)	32.23	-0.11	
E06000005	Darlington (Darlington)	12.29	-0.75	
E37000035	Thames Valley Berkshire			
E06000039	Slough (Reading)	42.20	0.21	
E06000040	Windsor and Maidenhead (Reading)	36.36	0.03	
E06000037	West Berkshire (Reading)	35.20	-0.01	
E06000036	Bracknell Forest (Reading)	30.29	-0.17	
E06000041	Wokingham (Reading)	22.02	-0.43	
E06000038	Reading (Reading)	13.66	-0.70	
E37000036	The Marches			
E06000019	Herefordshire, County of (Bristol Parkway)	94.60	1.89	
E06000051	Shropshire (Wolverhampton)	58.51	0.74	
E06000020	Telford and Wrekin (Wolverhampton)	40.26	0.15	
E37000037	West of England			
E06000024	North Somerset (Bristol Parkway)	40.28	0.15	
E06000022	Bath and North East Somerset (Bristol Temple Meads)	39.63	0.13	
E06000025	South Gloucestershire (Bristol Parkway)	19.95	-0.50	
E06000023	Bristol, City of (Bristol Temple Meads)	17.66	-0.57	
E37000038	Worcestershire			
E10000034	Worcestershire (Birmingham New Street)	50.06	0.14	
E37000039	York, North Yorkshire and East Riding			
E10000023	North Yorkshire (York)	59.98	0.65	
E06000011	East Riding of Yorkshire (Hull)	38.96	0.11	
E06000014	York (York)	16.62	-0.61	
E37000040	Sheffield City Region			
E10000007	Derbyshire (Nottingham)	55.90	0.44	
E10000024	Nottinghamshire (Nottingham)	36.29	-0.56	
E11000003	South Yorkshire (Sheffield)	31.48	-0.80	
E37000041	South East Midlands			
E10000002	Buckinghamshire (Watford Junction)	51.65	0.22	
E10000021	Northamptonshire (Milton Keynes Central)	51.32	0.21	
E06000056	Central Bedfordshire (Milton Keynes Central)	41.21	0.18	
E06000055	Bedford (Milton Keynes Central)	40.95	0.17	
E06000032	Luton (Watford Junction)	36.67	0.04	
E10000025	Oxfordshire (Oxford)	31.11	-0.82	
E06000042	Milton Keynes (Milton Keynes Central)	16.12	-0.62	
E37000042	Greater Cambridge and Greater Peterborough			
E10000019	Lincolnshire (Newark North Gate)	58.07	0.55	
E10000029	Suffolk (Ipswich)	43.83	-0.17	
E06000017	Rutland (Peterborough)	43.73	0.26	
E10000020	Norfolk (Norwich)	42.12	-0.26	
E10000012	Essex (Chelmsford)	41.50	-0.29	
E10000003	Cambridgeshire (Cambridge)	38.18	-0.46	
E10000015	Hertfordshire (Watford Junction)	35.48	-0.60	
E06000031	Peterborough (Peterborough)	13.88	-0.69	

Source: DfT. Journey time statistics: data tables (JTS). Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/748233/jts0921.ods

Table 38: Average minimum journey times to nearest of selected rail stations (minutes), by public transport, 2015

geo code	geo name	Indicator		
		value	Zscore	%parent
E9200001	England			
E3700001	Black Country			
E11000005	West Midlands (Birmingham New Street)	45.39	-1.29	
E37000002	Buckinghamshire Thames Valley			
E10000002	Buckinghamshire (London Marylebone)	78.40	0.43	
E37000003	Cheshire and Warrington			
E06000050	Cheshire West and Chester (Crewe)	65.86	0.65	
E06000049	Cheshire East (Crewe)	52.64	0.13	
E06000007	Warrington (Warrington Bank Quay)	30.43	-0.73	
E37000004	Coast to Capital			
E10000011	East Sussex (Haywards Heath)	79.35	0.48	
E10000032	West Sussex (Haywards Heath)	65.37	-0.25	
E10000030	Surrey (Guildford)	57.29	-0.67	
E06000043	Brighton and Hove (Brighton)	26.86	-0.87	
E09000008	Croydon (East Croydon)	24.09	-0.98	
E37000005	Cornwall and Isles of Scilly			
E37000006	Coventry and Warwickshire			
E10000031	Warwickshire (Coventry)	62.56	-0.40	
E11000005	West Midlands (Birmingham New Street)	45.39	-1.29	
E37000007	Cumbria			
E10000006	Cumbria (Carlisle)	80.70	0.55	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E10000007	Derbyshire (Sheffield)	78.00	0.41	
E06000015	Derby (Nottingham)	62.91	0.53	
E10000024	Nottinghamshire (Nottingham)	60.12	-0.52	
E06000018	Nottingham (Nottingham)	33.00	-0.63	
E37000009	Dorset			
E10000009	Dorset (Southampton Central)	102.73	1.70	
E06000029	Poole (Southampton Central)	73.50	0.95	
E06000028	Bournemouth (Southampton Central)	59.98	0.42	
E37000010	Enterprise M3			
E10000014	Hampshire (Winchester)	66.02	-0.22	
E10000030	Surrey (Guildford)	57.29	-0.67	
E37000011	Gloucestershire			
E10000013	Gloucestershire (Bristol Parkway)	85.68	0.81	
E37000012	Greater Birmingham and Solihull			
E10000034	Worcestershire (Birmingham New Street)	81.82	0.61	
E10000028	Staffordshire (Wolverhampton)	74.25	0.21	
E11000005	West Midlands (Birmingham New Street)	45.39	-1.29	
E37000014	Greater Lincolnshire			
E06000012	North East Lincolnshire (Doncaster)	99.14	1.94	
E10000019	Lincolnshire (Peterborough)	87.05	0.88	
E06000013	North Lincolnshire (Doncaster)	75.49	1.02	
E37000015	Greater Manchester			
E11000001	Greater Manchester (Manchester Piccadilly)	48.47	-1.13	
E37000016	Heart of the South West			
E06000026	Plymouth (Bristol Temple Meads)	147.17	3.81	
E06000027	Torbay (Bristol Temple Meads)	132.11	3.23	
E10000008	Devon (Bristol Temple Meads)	121.34	2.67	
E10000027	Somerset (Bristol Temple Meads)	102.16	1.67	
E37000017	Hertfordshire			
E10000015	Hertfordshire (London St Pancras)	60.06	-0.53	
E37000018	Humber			
E06000012	North East Lincolnshire (Doncaster)	99.14	1.94	
E06000013	North Lincolnshire (Doncaster)	75.49	1.02	
E06000011	East Riding of Yorkshire (Hull)	62.79	0.53	
E06000010	Kingston upon Hull, City of (Hull)	30.33	-0.73	
E37000019	Lancashire			
E10000017	Lancashire (Preston)	55.65	-0.76	
E06000009	Blackpool (Preston)	53.43	0.16	
E06000008	Blackburn with Darwen (Preston)	51.00	0.07	
E37000020	Leeds City Region			
E10000023	North Yorkshire (York)	77.37	0.38	
E11000006	West Yorkshire (Leeds)	48.34	-1.14	

Table 38: Average minimum journey times to nearest of selected rail stations (minutes), by public transport, 2015
(continued)

geo code	geo name	value	Zscore	%parent
E11000003	South Yorkshire (Sheffield)	46.44	-1.24	
E06000014	York (York)	25.80	-0.91	
E37000021	Leicester and Leicestershire			
E10000018	Leicestershire (Nottingham)	85.89	0.82	
E06000016	Leicester (Nottingham)	68.15	0.74	
E37000022	Liverpool City Region			
E11000002	Merseyside (Liverpool Lime Street (High Level))	40.44	-1.55	
E06000006	Halton (Warrington Bank Quay)	38.26	-0.43	
E37000023	London			
E09000017	Hillingdon (London Marylebone)	54.96	0.22	
E09000004	Bexley (London Waterloo East)	51.14	0.08	
E09000009	Ealing (London Marylebone)	45.27	-0.15	
E09000010	Enfield (London Kings Cross)	44.27	-0.19	
E09000015	Harrow (Watford Junction)	40.49	-0.34	
E09000011	Greenwich (London Bridge)	39.93	-0.36	
E09000003	Barnet (London St Pancras)	39.42	-0.38	
E09000029	Sutton (Wimbledon)	38.47	-0.42	
E09000031	Waltham Forest (Stratford (London))	36.47	-0.50	
E09000018	Hounslow (Richmond (Greater London))	34.62	-0.57	
E09000005	Brent (London Marylebone)	34.01	-0.59	
E09000023	Lewisham (London Bridge)	32.96	-0.63	
E09000014	Haringey (London Kings Cross)	32.55	-0.65	
E09000013	Hammersmith and Fulham (Richmond (Greater London))	32.55	-0.65	
E09000026	Redbridge (Stratford (London))	30.73	-0.72	
E09000020	Kensington and Chelsea (London Paddington)	28.89	-0.79	
E09000016	Havering (Romford)	28.58	-0.80	
E09000012	Hackney (London Liverpool Street)	28.05	-0.82	
E09000021	Kingston upon Thames (Wimbledon)	27.91	-0.83	
E09000028	Southwark (London Bridge)	26.45	-0.89	
E09000006	Bromley (Bromley South)	26.34	-0.89	
E09000022	Lambeth (Vauxhall)	25.54	-0.92	
E09000030	Tower Hamlets (London Fenchurch Street)	24.92	-0.95	
E09000032	Wandsworth (Clapham Junction)	24.58	-0.96	
E09000025	Newham (Barking)	24.34	-0.97	
E09000008	Croydon (East Croydon)	24.09	-0.98	
E09000002	Barking and Dagenham (Barking)	23.96	-0.98	
E09000027	Richmond upon Thames (Richmond (Greater London))	23.30	-1.01	
E09000024	Merton (Wimbledon)	22.74	-1.03	
E09000019	Islington (London Kings Cross)	22.23	-1.05	
E09000007	Camden (London St Pancras)	21.98	-1.06	
E09000033	Westminster (London Marylebone)	19.93	-1.14	
E09000001	City of London (London Blackfriars)	16.69	-1.27	
E37000024	New Anglia			
E10000029	Suffolk (Ipswich)	68.26	-0.10	
E10000020	Norfolk (Norwich)	65.53	-0.24	
E37000025	North East			
E06000047	County Durham (Darlington)	67.13	0.70	
E37000027	Oxfordshire			
E10000025	Oxfordshire (Oxford)	54.05	-0.84	
E37000029	Solent			
E10000014	Hampshire (Winchester)	66.02	-0.22	
E06000044	Portsmouth (Southampton Central)	60.15	0.43	
E06000045	Southampton (Southampton Central)	26.40	-0.89	
E37000030	South East			
E10000011	East Sussex (Haywards Heath)	79.35	0.48	
E10000016	Kent (Ashford International)	67.92	-0.12	
E10000012	Essex (Chelmsford)	60.14	-0.52	
E06000033	Southend-on-Sea (Billerica)	51.64	0.10	
E06000035	Medway (Ebbsfleet International)	49.71	0.02	
E06000034	Thurrock (Barking)	44.00	-0.20	
E37000032	Stoke-on-Trent and Staffordshire			
E10000028	Staffordshire (Wolverhampton)	74.25	0.21	
E06000021	Stoke-on-Trent (Crewe)	62.75	0.53	
E37000033	Swindon and Wiltshire			

Table 38: Average minimum journey times to nearest of selected rail stations (minutes), by public transport, 2015
(continued)

geo code	geo name	value	Zscore	%parent
E06000054	Wiltshire (Bristol Temple Meads)	95.22	1.79	
E06000030	Swindon (Didcot Parkway)	51.50	0.09	
E37000034	Tees Valley			
E06000001	Hartlepool (Darlington)	88.72	1.54	
E06000003	Redcar and Cleveland (Darlington)	77.94	1.12	
E06000002	Middlesbrough (Darlington)	66.47	0.67	
E06000004	Stockton-on-Tees (Darlington)	62.37	0.51	
E06000005	Darlington (Darlington)	25.02	-0.94	
E37000035	Thames Valley Berkshire			
E06000040	Windsor and Maidenhead (Reading)	60.16	0.43	
E06000036	Bracknell Forest (Reading)	57.79	0.33	
E06000037	West Berkshire (Reading)	57.29	0.31	
E06000039	Slough (Reading)	54.13	0.19	
E06000041	Wokingham (Reading)	42.03	-0.28	
E06000038	Reading (Reading)	26.88	-0.87	
E37000036	The Marches			
E06000019	Herefordshire, County of (Bristol Parkway)	123.54	2.89	
E06000051	Shropshire (Crewe)	94.99	1.78	
E06000020	Telford and Wrekin (Wolverhampton)	60.06	0.42	
E37000037	West of England			
E06000024	North Somerset (Bristol Temple Meads)	53.22	0.16	
E06000022	Bath and North East Somerset (Bristol Temple Meads)	48.74	-0.02	
E06000025	South Gloucestershire (Bristol Parkway)	43.98	-0.20	
E06000023	Bristol, City of (Bristol Temple Meads)	32.80	-0.64	
E37000038	Worcestershire			
E10000034	Worcestershire (Birmingham New Street)	81.82	0.61	
E37000039	York, North Yorkshire and East Riding			
E10000023	North Yorkshire (York)	77.37	0.38	
E06000011	East Riding of Yorkshire (Hull)	62.79	0.53	
E06000014	York (York)	25.80	-0.91	
E37000040	Sheffield City Region			
E10000007	Derbyshire (Sheffield)	78.00	0.41	
E10000024	Nottinghamshire (Nottingham)	60.12	-0.52	
E11000003	South Yorkshire (Sheffield)	46.44	-1.24	
E37000041	South East Midlands			
E10000021	Northamptonshire (Milton Keynes Central)	100.68	1.59	
E06000055	Bedford (London St Pancras)	85.09	1.40	
E10000002	Buckinghamshire (London Marylebone)	78.40	0.43	
E06000056	Central Bedfordshire (London St Pancras)	77.61	1.11	
E06000032	Luton (London St Pancras)	59.54	0.40	
E10000025	Oxfordshire (Oxford)	54.05	-0.84	
E06000042	Milton Keynes (Milton Keynes Central)	39.68	-0.37	
E37000042	Greater Cambridge and Greater Peterborough			
E10000019	Lincolnshire (Peterborough)	87.05	0.88	
E06000017	Rutland (Peterborough)	68.90	0.77	
E10000029	Suffolk (Ipswich)	68.26	-0.10	
E10000003	Cambridgeshire (Cambridge)	65.58	-0.24	
E10000020	Norfolk (Norwich)	65.53	-0.24	
E10000012	Essex (Chelmsford)	60.14	-0.52	
E10000015	Hertfordshire (London St Pancras)	60.06	-0.53	
E06000031	Peterborough (Peterborough)	28.70	-0.80	

Source: DfT. Journey time statistics: data tables (JTS). Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/748233/jts0921.ods

Rail crowding

Table 39: Rail crowding to main city centre stations in standard class at busiest service point (Passengers in excess of capacity %, PiXC)

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England			
E37000001	Black Country			
E37000002	Buckinghamshire Thames Valley			
E37000003	Cheshire and Warrington			
E37000004	Coast to Capital			
E37000005	Cornwall and Isles of Scilly			
E37000006	Coventry and Warwickshire			
E37000007	Cumbria			
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
<i>E06000018</i>	<i>Nottingham (Nottingham)</i>	<i>0.3</i>		
E37000009	Dorset			
E37000010	Enterprise M3			
E37000011	Gloucestershire			
E37000012	Greater Birmingham and Solihull			
<i>E08000025</i>	<i>Birmingham (Birmingham)</i>	<i>1.1</i>		
E37000014	Greater Lincolnshire			
E37000015	Greater Manchester			
<i>E08000003</i>	<i>Manchester (Manchester)</i>	<i>3.0</i>		
E37000016	Heart of the South West			
E37000017	Hertfordshire			
E37000018	Humber			
E37000019	Lancashire			
E37000020	Leeds City Region			
<i>E08000035</i>	<i>Leeds (Leeds)</i>	<i>2.4</i>		
E37000021	Leicester and Leicestershire			
<i>E06000016</i>	<i>Leicester (Leicester)</i>	<i>2.0</i>		
E37000022	Liverpool City Region			
<i>E08000012</i>	<i>Liverpool (Liverpool)</i>	<i>0.0</i>		
E37000023	London			
<i>E09000001</i>	<i>City of London (Blackfriars (via Elephant and Castle))</i>	<i>12.1</i>		
<i>E09000033</i>	<i>Westminster (Paddington)</i>	<i>6.9</i>		
<i>E09000007</i>	<i>Camden (King's Cross)</i>	<i>5.5</i>		
<i>E09000001</i>	<i>City of London (Liverpool Street)</i>	<i>5.2</i>		
<i>E09000007</i>	<i>Camden (Euston)</i>	<i>4.8</i>		
<i>E09000007</i>	<i>Camden (St. Pancras International)</i>	<i>4.8</i>		
<i>E09000022</i>	<i>Lambeth (Waterloo)</i>	<i>4.1</i>		
<i>E09000001</i>	<i>City of London (Moorgate)</i>	<i>4.0</i>		
<i>E09000001</i>	<i>City of London (Fenchurch Street)</i>	<i>3.9</i>		
<i>E09000033</i>	<i>Westminster (Victoria)</i>	<i>3.4</i>		
<i>E09000007</i>	<i>Camden (Marylebone)</i>	<i>3.1</i>		
<i>E09000028</i>	<i>Southwark (London Bridge)</i>	<i>2.7</i>		
E37000024	New Anglia			
E37000025	North East			
<i>E08000021</i>	<i>Newcastle upon Tyne (Newcastle)</i>	<i>0.0</i>		
E37000027	Oxfordshire			
E37000029	Solent			
E37000030	South East			
E37000032	Stoke-on-Trent and Staffordshire			
E37000033	Swindon and Wiltshire			
E37000034	Tees Valley			
E37000035	Thames Valley Berkshire			
E37000036	The Marches			
E37000037	West of England			
<i>E06000023</i>	<i>Bristol, City of (Bristol)</i>	<i>2.6</i>		
E37000038	Worcestershire			
E37000039	York, North Yorkshire and East Riding			
E37000040	Sheffield City Region			
<i>E08000019</i>	<i>Sheffield (Sheffield)</i>	<i>1.2</i>		
E37000041	South East Midlands			
E37000042	Greater Cambridge and Greater Peterborough			

Table 39: Rail crowding to main city centre stations in standard class at busiest service point (Passengers in excess of capacity %, PiXC) (*continued*)

geo code	geo name	value	Zscore	%parent
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Source: DfT. Rail passenger numbers and crowding on weekdays in major cities in England and Wales. Available at: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/633151/rail-passenger-crowding-2016.zip

Air freight traffic

Table 40: Total Freight (tonnes) including UK, EU and other overseas operators

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England (Total)	198,982.27		
E37000023	London (Total)	130,691.54	3.62	65.7
<i>E09000017</i>	<i>Hillingdon (HEATHROW)</i>	<i>130,691.54</i>	<i>3.51</i>	<i>100.0</i>
E37000021	Leicester and Leicestershire (Total)	27,602.56	0.44	13.9
<i>E07000134</i>	<i>North West Leicestershire (EAST MIDLANDS INTERNATIONAL)</i>	<i>27,602.56</i>	<i>0.43</i>	<i>100.0</i>
E37000030	South East (Total)	17,443.88	0.12	8.8
<i>E07000077</i>	<i>Utilesford (STANSTED)</i>	<i>17,443.88</i>	<i>0.12</i>	<i>100.0</i>
E37000042	Greater Cambridge and Greater Peterborough (Total)	17,443.88	0.12	8.8
<i>E07000077</i>	<i>Utilesford (STANSTED)</i>	<i>17,443.88</i>	<i>0.12</i>	<i>100.0</i>
E37000004	Coast to Capital (Total)	8,434.48	-0.16	4.2
<i>E07000226</i>	<i>Crawley (GATWICK)</i>	<i>8,434.48</i>	<i>-0.14</i>	<i>100.0</i>
E37000015	Greater Manchester (Total)	7,867.97	-0.18	4.0
<i>E08000003</i>	<i>Manchester (MANCHESTER)</i>	<i>7,867.97</i>	<i>-0.16</i>	<i>100.0</i>
E37000041	South East Midlands (Total)	2,844.37	-0.33	1.4
<i>E06000032</i>	<i>Luton (LUTON)</i>	<i>2,844.37</i>	<i>-0.31</i>	<i>100.0</i>
E37000012	Greater Birmingham and Solihull (Total)	2,462.29	-0.34	1.2
<i>E08000029</i>	<i>Solihull (BIRMINGHAM)</i>	<i>2,462.29</i>	<i>-0.32</i>	<i>100.0</i>
E37000040	Sheffield City Region (Total)	1,185.81	-0.38	0.6
<i>E08000017</i>	<i>Doncaster (DONCASTER SHEFFIELD)</i>	<i>1,185.81</i>	<i>-0.36</i>	<i>100.0</i>
E37000025	North East (Total)	385.63	-0.41	0.2
<i>E08000021</i>	<i>Newcastle upon Tyne (NEWCASTLE)</i>	<i>385.63</i>	<i>-0.39</i>	<i>100.0</i>
E37000024	New Anglia (Total)	18.68	-0.42	0.0
<i>E07000148</i>	<i>Norwich (NORWICH)</i>	<i>18.68</i>	<i>-0.40</i>	<i>100.0</i>
E37000029	Solent (Total)	15.93	-0.42	0.0
<i>E07000086</i>	<i>Eastleigh (SOUTHAMPTON)</i>	<i>15.93</i>	<i>-0.40</i>	<i>100.0</i>
E37000005	Cornwall and Isles of Scilly (Total)	10.90	-0.42	0.0
<i>E06000052</i>	<i>Cornwall (LANDS END (ST JUST))</i>	<i>5.50</i>	<i>-0.40</i>	<i>50.5</i>
<i>E06000053</i>	<i>Isles of Scilly (ISLES OF SCILLY (ST.MARYS))</i>	<i>5.40</i>	<i>-0.40</i>	<i>49.5</i>
E37000014	Greater Lincolnshire (Total)	9.45	-0.42	0.0
<i>E06000013</i>	<i>North Lincolnshire (HUMBERSIDE)</i>	<i>9.45</i>	<i>-0.40</i>	<i>100.0</i>
E37000018	Humber (Total)	9.45	-0.42	0.0
<i>E06000013</i>	<i>North Lincolnshire (HUMBERSIDE)</i>	<i>9.45</i>	<i>-0.40</i>	<i>100.0</i>
E37000022	Liverpool City Region (Total)	8.80	-0.42	0.0
<i>E08000012</i>	<i>Liverpool (LIVERPOOL (JOHN LENNON))</i>	<i>8.80</i>	<i>-0.40</i>	<i>100.0</i>
E37000001	Black Country			
E37000002	Buckinghamshire Thames Valley			
E37000003	Cheshire and Warrington			
E37000006	Coventry and Warwickshire			
E37000007	Cumbria			
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
E37000009	Dorset			
E37000010	Enterprise M3			
E37000011	Gloucestershire			
E37000016	Heart of the South West			
E37000017	Hertfordshire			
E37000019	Lancashire			
E37000020	Leeds City Region			
E37000027	Oxfordshire			
E37000032	Stoke-on-Trent and Staffordshire			
E37000033	Swindon and Wiltshire			
E37000034	Tees Valley			
E37000035	Thames Valley Berkshire			
E37000036	The Marches			
E37000037	West of England			
E37000038	Worcestershire			
E37000039	York, North Yorkshire and East Riding			

Source: Civil Aviation Authority. Freight by Type and Nationality. Available at: <https://www.caa.co.uk/>

Port freight traffic

Table 41: UK port freight tonnage, by port and year, major and minor ports, inwards and outwards on an annual basis

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England (England Total)	329,149			-3.4	-2.9	-0.4	-2.5	-2.3	1.7
E37000018	Humber	76,384	2.28	23.2	-11.1	-4.4	-1.3	-3.2	-3.8	-3.3
E06000012	North East Lincolnshire (Grimsby and Immingham)	54,034		70.7	-13.7	-8.6	-0.7	-8.0	-0.4	-5.2
E06000010	Kingston upon Hull, City of (Rivers Hull and Humber)	9,945		13.0	2.8	20.3	-2.1	22.9	-17.2	3.2
E06000010	Kingston upon Hull, City of (Hull)	9,824		12.9	-10.0	-2.0	-3.4	1.4	-8.2	0.1
E06000011	East Riding of Yorkshire (Goole)	1,440		1.9	4.6	8.5	4.4	3.9	1.8	-5.3
E06000013	North Lincolnshire (River Trent)	1,141		1.5	-13.1	-2.7	-9.1	7.0	-21.2	13.4
E37000014	Greater Lincolnshire	55,913	1.41	17.0	-13.5	-8.5	-1.1	-7.6	-0.9	-4.6
E06000012	North East Lincolnshire (Grimsby and Immingham)	54,034		96.6	-13.7	-8.6	-0.7	-8.0	-0.4	-5.2
E06000013	North Lincolnshire (River Trent)	1,141		2.0	-13.1	-2.7	-9.1	7.0	-21.2	13.4
E07000136	Boston (Boston)	738		1.3	1.9	-13.4	-13.2	-0.2	3.4	13.8
E37000023	London	49,868	1.15	15.2	15.4	9.8	-1.0	10.9	2.1	3.0
E09000001	City of London (London5)	49,868		100.0	15.4	9.8	-1.0	10.9	2.1	3.0
E37000030	South East	40,438	0.75	12.3	5.8	-3.3	-3.6	0.2	2.9	6.3
E07000108	Dover (Dover)	26,223		64.8	3.7	-3.9	-4.0	0.1	-1.1	9.1
E06000035	Medway (Medway)	8,694		21.5	3.7	-4.4	-5.2	0.9	7.6	0.8
E07000076	Tendring (Harwich)	4,755		11.8	30.7	4.5	4.2	0.3	17.0	6.9
E07000063	Lewes (Newhaven)	707		1.7	0.1	-18.2	-12.0	-7.1	23.6	-1.0
E07000114	Thanet (Ramsgate)	59		0.1	-72.7	126.9	-15.7	169.2	85.7	-93.5
E37000029	Solent	38,337	0.66	11.6	-2.7	-7.5	-4.0	-3.6	2.4	2.7
E06000045	Southampton (Southampton4)	34,471		89.9	-3.7	-8.5	-4.4	-4.3	2.6	2.5
E06000044	Portsmouth (Portsmouth4)	3,866		10.1	7.0	2.4	-0.6	3.0	-0.3	4.8
E37000022	Liverpool City Region	32,541	0.42	9.9	4.5	4.1	2.0	2.1	0.8	-0.5
E08000012	Liverpool (Liverpool)	32,541		100.0	4.5	4.1	2.0	2.1	0.8	-0.5
E37000024	New Anglia	32,402	0.41	9.8	12.7	3.3	1.1	2.2	0.5	8.5
E07000205	Suffolk Coastal (Felixstowe)	29,028		89.6	10.7	3.8	2.9	0.8	-0.6	7.3
E07000202	Ipswich (Ipswich2)	2,177		6.7	28.9	-5.1	-14.9	11.6	18.9	14.2
E07000145	Great Yarmouth (Great Yarmouth)	1,197		3.7	42.5	9.2	-6.7	17.1	-3.6	35.4
E37000034	Tees Valley	28,447	0.24	8.6	-24.4	-20.6	5.9	-25.0	-9.3	5.0
E06000001	Hartlepool (Tees and Hartlepool)	28,447		100.0	-24.4	-20.6	5.9	-25.0	-9.3	5.0
E37000037	West of England	8,741	-0.59	2.7	-17.8	-1.5	2.5	-3.9	-22.3	7.4
E06000023	Bristol, City of (Bristol)	8,741		100.0	-17.8	-1.5	2.5	-3.9	-22.3	7.4
E37000015	Greater Manchester	6,789	-0.68	2.1	-9.3	4.0	10.7	-6.0	-8.4	-4.9
E08000003	Manchester (Manchester)	6,789		100.0	-9.3	4.0	10.7	-6.0	-8.4	-4.9
E37000019	Lancashire	4,630	-0.77	1.4	18.1	1.6	0.9	0.7	1.9	14.1
E07000121	Lancaster (Heysham)	4,630		100.0	18.1	1.6	0.9	0.7	1.9	14.1
E07000128	Wyre (Fleetwood)	0		0.0						
E37000025	North East	4,088	-0.79	1.2	-53.1	-28.8	-6.6	-23.8	-22.3	-15.2
E08000023	South Tyneside (Tyne)	3,253		79.6	-59.9	-34.9	-11.0	-26.8	-25.5	-17.4
E08000024	Sunderland (Sunderland)	835		20.4	40.1	11.6	15.7	-3.5	9.0	15.1
E37000004	Coast to Capital	2,770	-0.85	0.8	20.1	-0.1	-4.1	4.2	9.8	9.5
E06000043	Brighton and Hove (Shoreham)	2,063		74.5	28.9	8.1	-1.1	9.3	4.5	14.1
E07000063	Lewes (Newhaven)	707		25.5	0.1	-18.2	-12.0	-7.1	23.6	-1.0
E37000016	Heart of the South West	2,384	-0.86	0.7	10.3	7.5	1.8	5.7	6.1	-3.3
E06000026	Plymouth (Plymouth)	2,384		100.0	10.3	7.5	1.8	5.7	6.1	-3.3
E37000039	York, North Yorkshire and East Riding	1,440	-0.90	0.4	4.6	8.5	4.4	3.9	1.8	-5.3

Table 41: UK port freight tonnage, by port and year, major and minor ports, inwards and outwards on an annual basis (*continued*)

geo code	geo name	value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
<i>E06000011</i>	<i>East Riding of Yorkshire (Goole)</i>	<i>1,440</i>		<i>100.0</i>	<i>4.6</i>	<i>8.5</i>	<i>4.4</i>	<i>3.9</i>	<i>1.8</i>	<i>-5.3</i>
E37000009	Dorset	818	-0.93	0.2	29.0	40.5	24.5	12.9	1.6	-9.6
<i>E06000029</i>	<i>Poole (Poole)</i>	<i>818</i>		<i>100.0</i>	<i>29.0</i>	<i>40.5</i>	<i>24.5</i>	<i>12.9</i>	<i>1.6</i>	<i>-9.6</i>
E37000005	Cornwall and Isles of Scilly	482	-0.95	0.1	-26.5	-6.0	-2.2	-3.9	-11.7	-11.4
<i>E06000052</i>	<i>Cornwall (Fowey)</i>	<i>482</i>		<i>100.0</i>	<i>-26.5</i>	<i>-6.0</i>	<i>-2.2</i>	<i>-3.9</i>	<i>-11.7</i>	<i>-11.4</i>
E37000001	Black Country									
E37000002	Buckinghamshire Thames Valley									
E37000003	Cheshire and Warrington									
E37000006	Coventry and Warwickshire									
E37000007	Cumbria									
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire									
E37000010	Enterprise M3									
E37000011	Gloucestershire									
E37000012	Greater Birmingham and Solihull									
E37000017	Hertfordshire									
E37000020	Leeds City Region									
E37000021	Leicester and Leicestershire									
E37000027	Oxfordshire									
E37000032	Stoke-on-Trent and Staffordshire									
E37000033	Swindon and Wiltshire									
E37000035	Thames Valley Berkshire									
E37000036	The Marches									
E37000038	Worcestershire									
E37000040	Sheffield City Region									
E37000041	South East Midlands									
E37000042	Greater Cambridge and Greater Peterborough									

Source:

ONS. Port freight annual statistics. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/739802/port0301.ods

Environmental and Natural Capital

Emissions and pollution

Table 42: Local Authority CO2 emissions estimates (t CO2, per capita)

geo code	geo name	Indicator			%growth		%YoYgrowth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	5.29			-22.3	-10.3	-7.1	-3.4	-10.6	-3.1
E37000018	Humber	13.84	3.57	261.7	-8.2	-0.8	-7.9	7.7	-9.1	1.8
E37000014	Greater Lincolnshire	12.17	2.79	230.1	-10.6	-1.7	-8.2	7.1	-9.7	0.8
E37000034	Tees Valley	10.84	2.18	205.0	-47.8	-47.2	-40.2	-11.8	-10.6	10.7
E37000003	Cheshire and Warrington	8.82	1.25	166.8	-19.3	-1.9	-0.3	-1.6	-12.4	-6.1
E37000007	Cumbria	7.75	0.76	146.6	-21.8	-6.6	-8.2	1.7	-12.7	-4.0
E37000006	Coventry and Warwickshire	7.54	0.66	142.6	-14.5	-5.8	-2.5	-3.4	-6.5	-2.9
E37000042	Greater Cambridge and Greater Peterborough	7.36	0.58	139.3	-18.8	-8.0	-6.5	-1.6	-9.7	-2.3
E37000039	York, North Yorkshire and East Riding	7.11	0.46	134.5	-15.1	-7.0	-4.2	-2.9	-7.3	-1.5
E37000032	Stoke-on-Trent and Staffordshire	6.58	0.22	124.5	-12.4	-3.8	-4.2	0.4	-7.5	-1.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	6.55	0.20	123.8	-16.4	-8.1	-6.6	-1.6	-8.3	-0.8
E37000027	Oxfordshire	6.41	0.14	121.2	-18.9	-5.9	-5.3	-0.6	-10.9	-3.3
E37000040	Sheffield City Region	5.93	-0.08	112.1	-16.1	-5.2	-2.7	-2.5	-10.6	-1.0
E37000036	The Marches	5.88	-0.10	111.2	-18.1	-10.6	-5.4	-5.4	-6.0	-2.6
E37000038	Worcestershire	5.82	-0.13	110.1	-15.3	-7.1	-4.2	-3.1	-7.0	-1.9
E37000019	Lancashire	5.74	-0.17	108.5	-16.1	-7.5	-5.2	-2.5	-7.5	-1.9
E37000021	Leicester and Leicestershire	5.68	-0.20	107.4	-18.1	-9.6	-5.0	-4.8	-7.7	-1.8
E37000041	South East Midlands	5.67	-0.20	107.2	-19.1	-7.4	-5.0	-2.5	-9.9	-3.1
E37000011	Gloucestershire	5.65	-0.21	106.9	-20.1	-8.5	-5.3	-3.4	-9.9	-3.0
E37000024	New Anglia	5.62	-0.22	106.3	-22.1	-11.5	-8.6	-3.2	-9.3	-3.0
E37000002	Buckinghamshire Thames Valley	5.60	-0.23	105.9	-17.2	-6.7	-3.6	-3.2	-8.0	-3.5
E37000010	Enterprise M3	5.57	-0.24	105.4	-19.8	-6.6	-4.2	-2.5	-10.9	-3.7
E37000033	Swindon and Wiltshire	5.53	-0.27	104.5	-19.8	-9.1	-5.3	-4.1	-8.4	-3.7
E37000035	Thames Valley Berkshire	5.35	-0.35	101.2	-23.7	-7.8	-5.8	-2.1	-12.1	-5.9
E37000020	Leeds City Region	5.26	-0.39	99.4	-18.5	-6.0	-5.1	-1.0	-11.3	-2.2
E37000017	Hertfordshire	5.18	-0.43	97.9	-19.1	-8.3	-5.2	-3.3	-9.2	-2.8
E37000016	Heart of the South West	5.15	-0.44	97.4	-20.3	-10.9	-5.6	-5.6	-7.3	-3.5
E37000005	Cornwall and Isles of Scilly	5.08	-0.47	96.0	-20.8	-12.2	-5.8	-6.8	-6.6	-3.3
E37000030	South East	4.80	-0.60	90.7	-21.4	-7.7	-5.1	-2.8	-11.0	-4.2
E37000037	West of England	4.75	-0.62	89.9	-20.8	-7.8	-5.3	-2.6	-10.9	-3.6
E37000022	Liverpool City Region	4.69	-0.65	88.8	-26.7	-11.8	-6.2	-6.0	-11.4	-6.1
E37000012	Greater Birmingham and Solihull	4.63	-0.68	87.6	-21.2	-8.8	-5.4	-3.6	-10.7	-3.1
E37000029	Solent	4.57	-0.71	86.5	-22.5	-7.6	-4.8	-3.0	-12.2	-4.5
E37000015	Greater Manchester	4.50	-0.74	85.0	-23.4	-8.9	-5.1	-4.0	-12.7	-3.8
E37000009	Dorset	4.28	-0.84	80.9	-22.5	-10.5	-5.5	-5.2	-9.6	-4.3
E37000004	Coast to Capital	4.24	-0.86	80.2	-21.9	-6.5	-5.8	-0.8	-13.0	-4.0
E37000025	North East	4.17	-0.89	78.8	-32.5	-11.8	-8.2	-3.9	-12.9	-12.1
E37000001	Black Country	4.09	-0.93	77.4	-22.8	-9.4	-6.9	-2.6	-12.1	-3.0
E37000023	London	3.56	-1.18	67.2	-31.2	-15.3	-8.6	-7.4	-14.5	-5.0

Source: DEFRA. UK local authority and regional carbon dioxide emissions national statistics: 2005 to 2016 . Available at: <https://www.gov.uk/government/statistics/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics-2005-2016>

Table 43: Population-weighted annual mean PM2.5 data

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	9.44			-18.1	0.1	-5.8	6.2	-15.5	-3.1
E37000023	London	12.15	2.24	128.7	-13.7	9.3	0.9	8.4	-18.5	-3.1
E37000035	Thames Valley Berkshire	10.79	1.30	114.2	-9.8	18.0	-3.5	22.2	-20.1	-4.3
E37000017	Hertfordshire	10.74	1.27	113.7	-9.9	10.9	4.7	5.9	-15.0	-4.4
E37000004	Coast to Capital	10.65	1.21	112.7	-6.0	14.4	-3.9	19.0	-12.6	-5.9
E37000030	South East	10.60	1.18	112.3	-10.1	3.1	-3.8	7.1	-10.3	-2.8
E37000002	Buckinghamshire Thames Valley	10.55	1.14	111.7	-6.1	16.8	0.6	16.1	-15.3	-5.1
E37000041	South East Midlands	10.34	1.00	109.5	-11.8	5.3	-0.8	6.2	-13.4	-3.3
E37000029	Solent	10.16	0.88	107.6	-8.8	3.9	-9.5	14.8	-7.2	-5.4
E37000010	Enterprise M3	10.12	0.85	107.2	-10.2	12.3	-5.8	19.2	-15.4	-5.5
E37000027	Oxfordshire	10.10	0.83	106.9	-12.1	6.8	-5.2	12.7	-14.5	-3.7
E37000021	Leicester and Leicestershire	10.03	0.78	106.2	-17.8	-4.6	-7.5	3.2	-12.1	-2.0
E37000042	Greater Cambridge and Greater Peterborough	9.77	0.61	103.5	-17.6	0.4	-3.1	3.6	-15.8	-2.6
E37000001	Black Country	9.77	0.60	103.4	-20.1	-6.1	-11.1	5.7	-13.6	-1.5
E37000012	Greater Birmingham and Solihull	9.75	0.59	103.3	-18.6	-0.4	-9.2	9.6	-16.4	-2.1
E37000006	Coventry and Warwickshire	9.65	0.52	102.2	-17.8	1.3	-7.2	9.2	-16.7	-2.6
E37000024	New Anglia	9.57	0.47	101.3	-18.1	-6.6	-5.6	-1.0	-11.2	-1.3
E37000033	Swindon and Wiltshire	9.23	0.23	97.7	-15.7	1.5	-8.0	10.3	-13.7	-3.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	9.23	0.23	97.7	-23.9	-5.7	-10.0	4.8	-17.3	-2.4
E37000037	West of England	9.09	0.14	96.3	-17.6	3.5	-9.8	14.7	-17.9	-3.0
E37000009	Dorset	8.92	0.03	94.5	-12.1	2.5	-7.3	10.6	-9.0	-5.8
E37000011	Gloucestershire	8.84	-0.03	93.6	-18.6	-1.2	-9.8	9.6	-14.8	-3.3
E37000014	Greater Lincolnshire	8.60	-0.20	91.0	-28.7	-15.4	-6.2	-9.8	-14.9	-1.0
E37000032	Stoke-on-Trent and Staffordshire	8.36	-0.36	88.5	-24.2	-7.0	-11.8	5.5	-16.4	-2.5
E37000038	Worcestershire	8.34	-0.38	88.3	-23.4	-9.1	-11.2	2.3	-13.5	-2.5
E37000018	Humber	8.25	-0.43	87.4	-30.1	-15.0	-7.1	-8.6	-17.2	-0.7
E37000015	Greater Manchester	7.91	-0.67	83.8	-27.3	-6.2	-13.6	8.5	-20.3	-2.7
E37000022	Liverpool City Region	7.87	-0.70	83.3	-21.2	-3.3	-12.4	10.4	-16.2	-2.7
E37000016	Heart of the South West	7.76	-0.77	82.2	-18.5	-11.4	-9.9	-1.6	-3.5	-4.7
E37000020	Leeds City Region	7.70	-0.81	81.5	-28.8	-5.6	-11.9	7.1	-21.6	-3.8
E37000039	York, North Yorkshire and East Riding	7.40	-1.02	78.4	-27.9	-11.0	-4.0	-7.3	-18.9	-0.2
E37000040	Sheffield City Region	7.40	-1.02	78.4	-36.8	-14.6	-14.5	-0.2	-23.1	-3.7
E37000034	Tees Valley	7.32	-1.07	77.5	-21.9	3.8	0.3	3.5	-25.9	1.5
E37000003	Cheshire and Warrington	7.28	-1.10	77.1	-28.2	-12.8	-14.0	1.5	-17.2	-0.6
E37000036	The Marches	7.25	-1.12	76.8	-26.6	-11.7	-13.8	2.5	-14.3	-3.0
E37000019	Lancashire	7.02	-1.28	74.3	-26.2	-16.3	-11.0	-5.9	-9.5	-2.5
E37000005	Cornwall and Isles of Scilly	6.77	-1.45	71.7	-26.5	-23.3	-9.0	-15.7	-4.1	-0.1
E37000025	North East	6.64	-1.54	70.3	-29.6	-5.7	1.7	-7.2	-24.9	-0.6
E37000007	Cumbria	5.80	-2.12	61.4	-29.0	-24.6	-1.1	-23.7	-3.5	-2.4

Source: DEFRA. UK local authority and regional carbon dioxide emissions national statistics: 2005 to 2016 . Available at: <https://uk-air.defra.gov.uk/data/pcm-data>

Flood risk

Table 44: Number of properties at risk of flooding, from rivers and sea, 2019

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	2,549,499		
E37000023	London	582,630	4.90	22.9
E37000018	Humber	242,198	1.61	9.5
E37000014	Greater Lincolnshire	227,296	1.47	8.9
E37000030	South East	206,796	1.27	8.1
E37000042	Greater Cambridge and Greater Peterborough	147,374	0.70	5.8
E37000016	Heart of the South West	114,751	0.38	4.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	110,418	0.34	4.3
E37000039	York, North Yorkshire and East Riding	106,038	0.30	4.2
E37000020	Leeds City Region	94,070	0.18	3.7
E37000024	New Anglia	85,402	0.10	3.4
E37000010	Enterprise M3	83,533	0.08	3.3
E37000019	Lancashire	83,313	0.08	3.3
E37000037	West of England	78,397	0.03	3.1
E37000040	Sheffield City Region	62,557	-0.12	2.5
E37000015	Greater Manchester	58,240	-0.17	2.3
E37000029	Solent	52,630	-0.22	2.1
E37000004	Coast to Capital	49,344	-0.25	1.9
E37000035	Thames Valley Berkshire	48,347	-0.26	1.9
E37000012	Greater Birmingham and Solihull	42,181	-0.32	1.7
E37000007	Cumbria	34,174	-0.40	1.3
E37000021	Leicester and Leicestershire	34,063	-0.40	1.3
E37000032	Stoke-on-Trent and Staffordshire	32,744	-0.41	1.3
E37000011	Gloucestershire	27,649	-0.46	1.1
E37000041	South East Midlands	26,795	-0.47	1.1
E37000003	Cheshire and Warrington	26,385	-0.47	1.0
E37000017	Hertfordshire	22,480	-0.51	0.9
E37000027	Oxfordshire	19,991	-0.53	0.8
E37000022	Liverpool City Region	18,670	-0.55	0.7
E37000009	Dorset	18,250	-0.55	0.7
E37000006	Coventry and Warwickshire	18,209	-0.55	0.7
E37000025	North East	17,625	-0.56	0.7
E37000036	The Marches	17,285	-0.56	0.7
E37000005	Cornwall and Isles of Scilly	16,585	-0.57	0.7
E37000033	Swindon and Wiltshire	13,341	-0.60	0.5
E37000038	Worcestershire	12,315	-0.61	0.5
E37000002	Buckinghamshire Thames Valley	12,027	-0.61	0.5
E37000001	Black Country	10,909	-0.62	0.4
E37000034	Tees Valley	8,872	-0.64	0.3

Source: Environment Agency. Risk of Flooding from Rivers and Sea. Available at: <https://ea.sharefile.com/d-se2a7b4537644029a>

Availability of public green space

Table 45: Availability of public green spaces, m2 per capita (or ha per 10,000 population), 2019

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	660.32		
E37000032	Stoke-on-Trent and Staffordshire	2,562.03	3.76	388.0
E37000035	Thames Valley Berkshire	2,330.11	3.28	352.9
E37000012	Greater Birmingham and Solihull	1,381.78	1.33	209.3
E37000042	Greater Cambridge and Greater Peterborough	1,336.03	1.24	202.3
E37000010	Enterprise M3	1,316.04	1.20	199.3
E37000007	Cumbria	1,109.59	0.77	168.0
E37000003	Cheshire and Warrington	936.35	0.42	141.8
E37000038	Worcestershire	836.48	0.21	126.7
E37000029	Solent	814.67	0.16	123.4
E37000017	Hertfordshire	692.68	-0.09	104.9
E37000009	Dorset	655.69	-0.16	99.3
E37000025	North East	652.23	-0.17	98.8
E37000011	Gloucestershire	629.32	-0.22	95.3
E37000024	New Anglia	625.45	-0.22	94.7
E37000019	Lancashire	618.97	-0.24	93.7
E37000030	South East	612.93	-0.25	92.8
E37000005	Cornwall and Isles of Scilly	605.03	-0.27	91.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	604.94	-0.27	91.6
E37000041	South East Midlands	603.67	-0.27	91.4
E37000036	The Marches	594.49	-0.29	90.0
E37000027	Oxfordshire	566.55	-0.35	85.8
E37000033	Swindon and Wiltshire	552.42	-0.38	83.7
E37000004	Coast to Capital	552.28	-0.38	83.6
E37000022	Liverpool City Region	531.41	-0.42	80.5
E37000039	York, North Yorkshire and East Riding	531.08	-0.42	80.4
E37000002	Buckinghamshire Thames Valley	530.46	-0.42	80.3
E37000037	West of England	524.01	-0.43	79.4
E37000034	Tees Valley	478.16	-0.53	72.4
E37000021	Leicester and Leicestershire	461.64	-0.56	69.9
E37000015	Greater Manchester	456.78	-0.57	69.2
E37000018	Humber	443.53	-0.60	67.2
E37000023	London	440.51	-0.61	66.7
E37000016	Heart of the South West	437.05	-0.61	66.2
E37000040	Sheffield City Region	430.62	-0.63	65.2
E37000006	Coventry and Warwickshire	427.75	-0.63	64.8
E37000020	Leeds City Region	409.93	-0.67	62.1
E37000014	Greater Lincolnshire	343.42	-0.81	52.0
E37000001	Black Country	281.35	-0.93	42.6

Source: Calculated by Technopolis based on data from Ordnance Survey. Greenspace OS Maps. Available at: <https://www.ordnancesurvey.co.uk/opendatadownload/products.html>

Urban-rural classification

Table 46: ONS Classification of Local Authorities, rural/urban, 2011

geo code	geo name	type
E92000001	England	
E37000001	Black Country	
E08000027	Dudley	<i>Predominantly Urban</i>
E08000028	Sandwell	<i>Predominantly Urban</i>
E08000030	Walsall	<i>Predominantly Urban</i>
E08000031	Wolverhampton	<i>Predominantly Urban</i>
E37000002	Buckinghamshire Thames Valley	
E07000004	Aylesbury Vale	<i>Predominantly Rural</i>
E07000005	Chiltern	<i>Urban with Significant Rural</i>
E07000006	South Bucks	<i>Urban with Significant Rural</i>
E07000007	Wycombe	<i>Urban with Significant Rural</i>
E37000003	Cheshire and Warrington	
E06000007	Warrington	<i>Predominantly Urban</i>
E06000049	Cheshire East	<i>Urban with Significant Rural</i>
E06000050	Cheshire West and Chester	<i>Urban with Significant Rural</i>
E37000004	Coast to Capital	
E06000043	Brighton and Hove	<i>Predominantly Urban</i>
E07000063	Lewes	<i>Urban with Significant Rural</i>
E07000208	Epsom and Ewell	<i>Predominantly Urban</i>
E07000210	Mole Valley	<i>Urban with Significant Rural</i>
E07000211	Reigate and Banstead	<i>Predominantly Urban</i>
E07000215	Tandridge	<i>Urban with Significant Rural</i>
E07000223	Adur	<i>Predominantly Urban</i>
E07000224	Arun	<i>Predominantly Urban</i>
E07000225	Chichester	<i>Predominantly Rural</i>
E07000226	Crawley	<i>Predominantly Urban</i>
E07000227	Horsham	<i>Predominantly Rural</i>
E07000228	Mid Sussex	<i>Predominantly Urban</i>
E07000229	Worthing	<i>Predominantly Urban</i>
E09000008	Croydon	<i>Predominantly Urban</i>
E37000005	Cornwall and Isles of Scilly	
E06000052	Cornwall	<i>Predominantly Rural</i>
E06000053	Isles of Scilly	<i>Predominantly Rural</i>
E37000006	Coventry and Warwickshire	
E07000218	North Warwickshire	<i>Predominantly Rural</i>
E07000219	Nuneaton and Bedworth	<i>Predominantly Urban</i>
E07000220	Rugby	<i>Predominantly Urban</i>
E07000221	Stratford-on-Avon	<i>Predominantly Rural</i>
E07000222	Warwick	<i>Predominantly Urban</i>
E08000026	Coventry	<i>Predominantly Urban</i>
E37000007	Cumbria	
E07000026	Allerdale	<i>Predominantly Rural</i>
E07000027	Barrow-in-Furness	<i>Urban with Significant Rural</i>
E07000028	Carlisle	<i>Urban with Significant Rural</i>
E07000029	Copeland	<i>Predominantly Rural</i>
E07000030	Eden	<i>Predominantly Rural</i>
E07000031	South Lakeland	<i>Predominantly Rural</i>
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	
E06000015	Derby	<i>Predominantly Urban</i>
E06000018	Nottingham	<i>Predominantly Urban</i>
E07000032	Amber Valley	<i>Predominantly Urban</i>
E07000033	Bolsover	<i>Urban with Significant Rural</i>
E07000034	Chesterfield	<i>Predominantly Urban</i>
E07000035	Derbyshire Dales	<i>Predominantly Rural</i>
E07000036	Erewash	<i>Predominantly Urban</i>
E07000037	High Peak	<i>Predominantly Rural</i>
E07000038	North East Derbyshire	<i>Predominantly Urban</i>
E07000039	South Derbyshire	<i>Urban with Significant Rural</i>
E07000170	Ashfield	<i>Predominantly Urban</i>
E07000171	Bassetlaw	<i>Predominantly Rural</i>
E07000172	Broxtowe	<i>Predominantly Urban</i>

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E07000173	Gedling	Predominantly Urban
E07000174	Mansfield	Predominantly Urban
E07000175	Newark and Sherwood	Predominantly Rural
E07000176	Rushcliffe	Predominantly Rural
E37000009	Dorset	
E06000028	Bournemouth	Predominantly Urban
E06000029	Poole	Predominantly Urban
E07000048	Christchurch	Predominantly Urban
E07000049	East Dorset	Urban with Significant Rural
E07000050	North Dorset	Predominantly Rural
E07000051	Purbeck	Predominantly Rural
E07000052	West Dorset	Predominantly Rural
E07000053	Weymouth and Portland	Predominantly Urban
E37000010	Enterprise M3	
E07000084	Basingstoke and Deane	Urban with Significant Rural
E07000085	East Hampshire	Predominantly Rural
E07000089	Hart	Urban with Significant Rural
E07000091	New Forest	Urban with Significant Rural
E07000092	Rushmoor	Predominantly Urban
E07000093	Test Valley	Urban with Significant Rural
E07000094	Winchester	Predominantly Rural
E07000207	Elmbridge	Predominantly Urban
E07000209	Guildford	Predominantly Urban
E07000212	Runnymede	Predominantly Urban
E07000213	Spelthorne	Predominantly Urban
E07000214	Surrey Heath	Predominantly Urban
E07000216	Waverley	Predominantly Rural
E07000217	Woking	Predominantly Urban
E37000011	Gloucestershire	
E07000078	Cheltenham	Predominantly Urban
E07000079	Cotswold	Predominantly Rural
E07000080	Forest of Dean	Predominantly Rural
E07000081	Gloucester	Predominantly Urban
E07000082	Stroud	Urban with Significant Rural
E07000083	Tewkesbury	Predominantly Rural
E37000012	Greater Birmingham and Solihull	
E07000192	Cannock Chase	Urban with Significant Rural
E07000193	East Staffordshire	Urban with Significant Rural
E07000194	Lichfield	Urban with Significant Rural
E07000199	Tamworth	Predominantly Urban
E07000234	Bromsgrove	Predominantly Urban
E07000236	Redditch	Predominantly Urban
E07000239	Wyre Forest	Urban with Significant Rural
E08000025	Birmingham	Predominantly Urban
E08000029	Solihull	Predominantly Urban
E37000014	Greater Lincolnshire	
E06000012	North East Lincolnshire	Predominantly Urban
E06000013	North Lincolnshire	Urban with Significant Rural
E07000136	Boston	Urban with Significant Rural
E07000137	East Lindsey	Predominantly Rural
E07000138	Lincoln	Predominantly Urban
E07000139	North Kesteven	Predominantly Rural
E07000140	South Holland	Predominantly Rural
E07000141	South Kesteven	Predominantly Rural
E07000142	West Lindsey	Predominantly Rural
E37000015	Greater Manchester	
E08000001	Bolton	Predominantly Urban
E08000002	Bury	Predominantly Urban
E08000003	Manchester	Predominantly Urban
E08000004	Oldham	Predominantly Urban
E08000005	Rochdale	Predominantly Urban
E08000006	Salford	Predominantly Urban
E08000007	Stockport	Predominantly Urban
E08000008	Tameside	Predominantly Urban

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E08000009	Trafford	Predominantly Urban
E08000010	Wigan	Predominantly Urban
E37000016	Heart of the South West	
E06000026	Plymouth	Predominantly Urban
E06000027	Torbay	Predominantly Urban
E07000040	East Devon	Predominantly Rural
E07000041	Exeter	Predominantly Urban
E07000042	Mid Devon	Predominantly Rural
E07000043	North Devon	Predominantly Rural
E07000044	South Hams	Predominantly Rural
E07000045	Teignbridge	Predominantly Rural
E07000046	Torridge	Predominantly Rural
E07000047	West Devon	Predominantly Rural
E07000187	Mendip	Predominantly Rural
E07000188	Sedgemoor	Predominantly Rural
E07000189	South Somerset	Predominantly Rural
E07000190	Taunton Deane	Urban with Significant Rural
E07000191	West Somerset	Predominantly Rural
E37000017	Hertfordshire	
E07000095	Broxbourne	Predominantly Urban
E07000096	Dacorum	Urban with Significant Rural
E07000098	Hertsmere	Predominantly Urban
E07000099	North Hertfordshire	Urban with Significant Rural
E07000102	Three Rivers	Predominantly Urban
E07000103	Watford	Predominantly Urban
E07000240	St Albans	Predominantly Urban
E07000241	Welwyn Hatfield	Predominantly Urban
E07000242	East Hertfordshire	Urban with Significant Rural
E07000243	Stevenage	Predominantly Urban
E37000018	Humber	
E06000010	Kingston upon Hull, City of	Predominantly Urban
E06000011	East Riding of Yorkshire	Predominantly Rural
E06000012	North East Lincolnshire	Predominantly Urban
E06000013	North Lincolnshire	Urban with Significant Rural
E37000019	Lancashire	
E06000008	Blackburn with Darwen	Predominantly Urban
E06000009	Blackpool	Predominantly Urban
E07000117	Burnley	Predominantly Urban
E07000118	Chorley	Urban with Significant Rural
E07000119	Fylde	Predominantly Urban
E07000120	Hyndburn	Predominantly Urban
E07000121	Lancaster	Urban with Significant Rural
E07000122	Pendle	Predominantly Urban
E07000123	Preston	Predominantly Urban
E07000124	Ribble Valley	Predominantly Rural
E07000125	Rossendale	Predominantly Urban
E07000126	South Ribble	Predominantly Urban
E07000127	West Lancashire	Urban with Significant Rural
E07000128	Wyre	Predominantly Rural
E37000020	Leeds City Region	
E06000014	York	Predominantly Urban
E07000163	Craven	Predominantly Rural
E07000165	Harrogate	Urban with Significant Rural
E07000169	Selby	Predominantly Rural
E08000016	Barnsley	Predominantly Urban
E08000032	Bradford	Predominantly Urban
E08000033	Calderdale	Predominantly Urban
E08000034	Kirklees	Predominantly Urban
E08000035	Leeds	Predominantly Urban
E08000036	Wakefield	Predominantly Urban
E37000021	Leicester and Leicestershire	
E06000016	Leicester	Predominantly Urban
E07000129	Blaby	Predominantly Urban
E07000130	Charnwood	Predominantly Urban
E07000131	Harborough	Predominantly Rural

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E07000132	Hinckley and Bosworth	Predominantly Rural
E07000133	Melton	Predominantly Rural
E07000134	North West Leicestershire	Predominantly Rural
E07000135	Oadby and Wigston	Predominantly Urban
E37000022	Liverpool City Region	
E06000006	Halton	Predominantly Urban
E08000011	Knowsley	Predominantly Urban
E08000012	Liverpool	Predominantly Urban
E08000013	St. Helens	Predominantly Urban
E08000014	Sefton	Predominantly Urban
E08000015	Wirral	Predominantly Urban
E37000023	London	
E09000001	City of London	Predominantly Urban
E09000002	Barking and Dagenham	Predominantly Urban
E09000003	Barnet	Predominantly Urban
E09000004	Bexley	Predominantly Urban
E09000005	Brent	Predominantly Urban
E09000006	Bromley	Predominantly Urban
E09000007	Camden	Predominantly Urban
E09000008	Croydon	Predominantly Urban
E09000009	Ealing	Predominantly Urban
E09000010	Enfield	Predominantly Urban
E09000011	Greenwich	Predominantly Urban
E09000012	Hackney	Predominantly Urban
E09000013	Hammersmith and Fulham	Predominantly Urban
E09000014	Haringey	Predominantly Urban
E09000015	Harrow	Predominantly Urban
E09000016	Havering	Predominantly Urban
E09000017	Hillingdon	Predominantly Urban
E09000018	Hounslow	Predominantly Urban
E09000019	Islington	Predominantly Urban
E09000020	Kensington and Chelsea	Predominantly Urban
E09000021	Kingston upon Thames	Predominantly Urban
E09000022	Lambeth	Predominantly Urban
E09000023	Lewisham	Predominantly Urban
E09000024	Merton	Predominantly Urban
E09000025	Newham	Predominantly Urban
E09000026	Redbridge	Predominantly Urban
E09000027	Richmond upon Thames	Predominantly Urban
E09000028	Southwark	Predominantly Urban
E09000029	Sutton	Predominantly Urban
E09000030	Tower Hamlets	Predominantly Urban
E09000031	Waltham Forest	Predominantly Urban
E09000032	Wandsworth	Predominantly Urban
E09000033	Westminster	Predominantly Urban
E37000024	New Anglia	
E07000143	Breckland	Predominantly Rural
E07000144	Broadland	Urban with Significant Rural
E07000145	Great Yarmouth	Urban with Significant Rural
E07000146	King's Lynn and West Norfolk	Predominantly Rural
E07000147	North Norfolk	Predominantly Rural
E07000148	Norwich	Predominantly Urban
E07000149	South Norfolk	Predominantly Rural
E07000200	Babergh	Predominantly Rural
E07000201	Forest Heath	Predominantly Rural
E07000202	Ipswich	Predominantly Urban
E07000203	Mid Suffolk	Predominantly Rural
E07000204	St Edmundsbury	Predominantly Rural
E07000205	Suffolk Coastal	Predominantly Rural
E07000206	Waveney	Urban with Significant Rural
E37000025	North East	
E06000047	County Durham	Predominantly Rural
E06000057	Northumberland	Predominantly Rural
E08000021	Newcastle upon Tyne	Predominantly Urban

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E08000022	North Tyneside	Predominantly Urban
E08000023	South Tyneside	Predominantly Urban
E08000024	Sunderland	Predominantly Urban
E08000037	Gateshead	Predominantly Urban
E37000027	Oxfordshire	
E07000177	Cherwell	Urban with Significant Rural
E07000178	Oxford	Predominantly Urban
E07000179	South Oxfordshire	Predominantly Rural
E07000180	Vale of White Horse	Predominantly Rural
E07000181	West Oxfordshire	Predominantly Rural
E37000029	Solent	
E06000044	Portsmouth	Predominantly Urban
E06000045	Southampton	Predominantly Urban
E06000046	Isle of Wight	Predominantly Rural
E07000085	East Hampshire	Predominantly Rural
E07000086	Eastleigh	Predominantly Urban
E07000087	Fareham	Predominantly Urban
E07000088	Gosport	Predominantly Urban
E07000090	Havant	Predominantly Urban
E07000091	New Forest	Urban with Significant Rural
E07000093	Test Valley	Urban with Significant Rural
E07000094	Winchester	Predominantly Rural
E37000030	South East	
E06000033	Southend-on-Sea	Predominantly Urban
E06000034	Thurrock	Predominantly Urban
E06000035	Medway	Predominantly Urban
E07000061	Eastbourne	Predominantly Urban
E07000062	Hastings	Predominantly Urban
E07000063	Lewes	Urban with Significant Rural
E07000064	Rother	Predominantly Rural
E07000065	Wealden	Predominantly Rural
E07000066	Basildon	Predominantly Urban
E07000067	Braintree	Predominantly Rural
E07000068	Brentwood	Urban with Significant Rural
E07000069	Castle Point	Predominantly Urban
E07000070	Chelmsford	Predominantly Urban
E07000071	Colchester	Urban with Significant Rural
E07000072	Epping Forest	Urban with Significant Rural
E07000073	Harlow	Predominantly Urban
E07000074	Maldon	Predominantly Rural
E07000075	Rochford	Predominantly Urban
E07000076	Tendring	Predominantly Rural
E07000077	Uttlesford	Predominantly Rural
E07000105	Ashford	Urban with Significant Rural
E07000106	Canterbury	Predominantly Urban
E07000107	Dartford	Predominantly Urban
E07000108	Dover	Urban with Significant Rural
E07000109	Gravesham	Predominantly Urban
E07000110	Maidstone	Urban with Significant Rural
E07000111	Sevenoaks	Predominantly Rural
E07000112	Shepway	Urban with Significant Rural
E07000113	Swale	Predominantly Rural
E07000114	Thanet	Predominantly Urban
E07000115	Tonbridge and Malling	Urban with Significant Rural
E07000116	Tunbridge Wells	Urban with Significant Rural
E37000032	Stoke-on-Trent and Staffordshire	
E06000021	Stoke-on-Trent	Predominantly Urban
E07000192	Cannock Chase	Urban with Significant Rural
E07000193	East Staffordshire	Urban with Significant Rural
E07000194	Lichfield	Urban with Significant Rural
E07000195	Newcastle-under-Lyme	Predominantly Urban
E07000196	South Staffordshire	Urban with Significant Rural
E07000197	Stafford	Urban with Significant Rural
E07000198	Staffordshire Moorlands	Predominantly Rural

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E07000199	Tamworth	Predominantly Urban
E37000033	Swindon and Wiltshire	
E06000030	Swindon	Predominantly Urban
E06000054	Wiltshire	Predominantly Rural
E37000034	Tees Valley	
E06000001	Hartlepool	Predominantly Urban
E06000002	Middlesbrough	Predominantly Urban
E06000003	Redcar and Cleveland	Urban with Significant Rural
E06000004	Stockton-on-Tees	Predominantly Urban
E06000005	Darlington	Predominantly Urban
E37000035	Thames Valley Berkshire	
E06000036	Bracknell Forest	Predominantly Urban
E06000037	West Berkshire	Urban with Significant Rural
E06000038	Reading	Predominantly Urban
E06000039	Slough	Predominantly Urban
E06000040	Windsor and Maidenhead	Predominantly Urban
E06000041	Wokingham	Predominantly Urban
E37000036	The Marches	
E06000019	Herefordshire, County of	Predominantly Rural
E06000020	Telford and Wrekin	Predominantly Urban
E06000051	Shropshire	Predominantly Rural
E37000037	West of England	
E06000022	Bath and North East Somerset	Urban with Significant Rural
E06000023	Bristol, City of	Predominantly Urban
E06000024	North Somerset	Urban with Significant Rural
E06000025	South Gloucestershire	Predominantly Urban
E37000038	Worcestershire	
E07000234	Bromsgrove	Predominantly Urban
E07000235	Malvern Hills	Predominantly Rural
E07000236	Redditch	Predominantly Urban
E07000237	Worcester	Predominantly Urban
E07000238	Wychavon	Predominantly Rural
E07000239	Wyre Forest	Urban with Significant Rural
E37000039	York, North Yorkshire and East Riding	
E06000011	East Riding of Yorkshire	Predominantly Rural
E06000014	York	Predominantly Urban
E07000163	Craven	Predominantly Rural
E07000164	Hambleton	Predominantly Rural
E07000165	Harrogate	Urban with Significant Rural
E07000166	Richmondshire	Predominantly Rural
E07000167	Ryedale	Predominantly Rural
E07000168	Scarborough	Urban with Significant Rural
E07000169	Selby	Predominantly Rural
E37000040	Sheffield City Region	
E07000033	Bolsover	Urban with Significant Rural
E07000034	Chesterfield	Predominantly Urban
E07000035	Derbyshire Dales	Predominantly Rural
E07000038	North East Derbyshire	Predominantly Urban
E07000171	Bassetlaw	Predominantly Rural
E08000016	Barnsley	Predominantly Urban
E08000017	Doncaster	Predominantly Urban
E08000018	Rotherham	Predominantly Urban
E08000019	Sheffield	Predominantly Urban
E37000041	South East Midlands	
E06000032	Luton	Predominantly Urban
E06000042	Milton Keynes	Predominantly Urban
E06000055	Bedford	Urban with Significant Rural
E06000056	Central Bedfordshire	Predominantly Rural
E07000004	Aylesbury Vale	Predominantly Rural
E07000150	Corby	Predominantly Urban
E07000151	Daventry	Predominantly Rural
E07000152	East Northamptonshire	Predominantly Rural
E07000153	Kettering	Predominantly Urban

Table 46: ONS Classification of Local Authorities, rural/urban, 2011 (*continued*)

geo code	geo name	type
E07000154	Northampton	Predominantly Urban
E07000155	South Northamptonshire	Predominantly Rural
E07000156	Wellingborough	Urban with Significant Rural
E07000177	Cherwell	Urban with Significant Rural
E37000042	Greater Cambridge and Greater Peterborough	
E06000017	Rutland	Predominantly Rural
E06000031	Peterborough	Predominantly Urban
E07000008	Cambridge	Predominantly Urban
E07000009	East Cambridgeshire	Predominantly Rural
E07000010	Fenland	Predominantly Rural
E07000011	Huntingdonshire	Predominantly Rural
E07000012	South Cambridgeshire	Predominantly Rural
E07000077	Uttersford	Predominantly Rural
E07000099	North Hertfordshire	Urban with Significant Rural
E07000140	South Holland	Predominantly Rural
E07000141	South Kesteven	Predominantly Rural
E07000146	King's Lynn and West Norfolk	Predominantly Rural
E07000201	Forest Heath	Predominantly Rural
E07000204	St Edmundsbury	Predominantly Rural

Source: ONS Open Geography portal. Available at:
<https://geoportal.statistics.gov.uk>

Business Environment

Businesses

Business productivity

Productivity in terms of GVA per hours worked in LEPs directly from ONS Subregional Productivity: Productivity Hours and Productivity Jobs by Local Enterprise Partnerships. The LAD figures have been calculated by Technopolis using GVA figures at LAD-level, divided by total hours worked from the Annual Population Survey (Annual summary of hours worked, place of work by Local Authority). For this reason LEP-level figures should be relied on primarily, while LAD-level figures should be taken as indicative and have a longer time lag.

Table 47: Productivity. GVA per hour worked (£), 2017 (LEPs) and 2016 (LADs)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	34.13			8.8	4.1	2.5	1.6	2.4	2.0
E37000023	London	44.87	3.21	131.5	8.7	4.0	2.4	1.6	2.4	2.0
E37000035	Thames Valley Berkshire	41.30	2.35	121.0	4.3	1.2	1.4	-0.1	1.3	1.7
E37000010	Enterprise M3	38.62	1.71	113.1	9.0	4.4	2.9	1.4	2.5	1.8
E37000002	Buckinghamshire Thames Valley	37.09	1.34	108.7	3.3	1.6	1.6	0.0	1.0	0.7
E37000027	Oxfordshire	36.18	1.12	106.0	10.3	4.2	2.5	1.7	3.4	2.4
E37000003	Cheshire and Warrington	35.05	0.85	102.7	5.6	4.3	2.8	1.4	0.8	0.5
E37000004	Coast to Capital	35.02	0.84	102.6	5.2	1.8	1.8	0.0	1.7	1.6
E37000029	Solent	34.30	0.67	100.5	9.5	4.6	2.8	1.7	2.7	1.9
E37000037	West of England	33.72	0.53	98.8	8.4	2.9	1.8	1.0	2.3	3.0
E37000033	Swindon and Wiltshire	33.29	0.43	97.5	6.4	4.1	2.9	1.2	1.7	0.5
E37000041	South East Midlands	32.53	0.24	95.3	9.3	4.3	2.6	1.6	2.6	2.1
E37000017	Hertfordshire	32.45	0.23	95.1	4.1	1.1	1.3	-0.1	1.3	1.7
E37000006	Coventry and Warwickshire	32.37	0.21	94.9	10.9	5.6	3.2	2.3	2.7	2.3
E37000011	Gloucestershire	32.19	0.16	94.3	10.1	5.4	3.1	2.2	2.5	1.9
E37000030	South East	31.63	0.03	92.7	9.6	4.3	2.6	1.7	2.7	2.3
E37000012	Greater Birmingham and Solihull	31.62	0.03	92.6	13.8	6.9	3.4	3.3	3.7	2.7
E37000042	Greater Cambridge and Greater Peterborough	31.40	-0.03	92.0	6.0	2.8	2.0	0.8	1.4	1.6
E37000024	New Anglia	30.57	-0.23	89.6	10.6	4.6	2.6	1.9	3.0	2.7
E37000034	Tees Valley	30.46	-0.25	89.2	7.9	3.5	2.2	1.3	2.2	2.1
E37000019	Lancashire	30.42	-0.26	89.1	18.0	9.3	4.6	4.5	5.0	2.8
E37000022	Liverpool City Region	30.36	-0.28	88.9	6.0	3.0	2.1	0.8	1.9	1.0
E37000021	Leicester and Leicestershire	30.29	-0.29	88.8	9.3	4.1	2.5	1.5	2.3	2.6
E37000015	Greater Manchester	30.19	-0.32	88.4	7.1	3.6	2.4	1.2	2.0	1.3
E37000025	North East	29.93	-0.38	87.7	10.0	5.1	2.9	2.1	2.7	2.0
E37000018	Humber	29.57	-0.47	86.6	8.6	3.0	1.9	1.1	2.8	2.6
E37000038	Worcestershire	29.34	-0.52	86.0	6.8	1.3	1.4	-0.1	2.1	3.3
E37000007	Cumbria	29.31	-0.53	85.9	10.0	4.2	2.5	1.7	3.2	2.4
E37000020	Leeds City Region	29.23	-0.55	85.6	9.1	4.4	2.6	1.7	2.6	1.9
E37000009	Dorset	29.20	-0.56	85.5	10.3	4.6	2.5	2.0	2.9	2.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	28.93	-0.62	84.8	7.0	3.4	2.1	1.3	1.6	1.9
E37000039	York, North Yorkshire and East Riding	28.78	-0.66	84.3	8.9	5.1	3.1	2.0	2.3	1.3
E37000016	Heart of the South West	27.89	-0.87	81.7	10.0	5.2	2.9	2.2	2.4	2.2
E37000040	Sheffield City Region	27.62	-0.94	80.9	7.6	3.6	2.4	1.2	1.9	1.9
E37000014	Greater Lincolnshire	27.40	-0.99	80.3	4.3	1.0	1.3	-0.3	1.0	2.3
E37000001	Black Country	27.33	-1.00	80.1	6.8	3.0	2.1	0.9	1.5	2.1
E37000032	Stoke-on-Trent and Staffordshire	26.71	-1.15	78.3	7.5	3.5	2.1	1.4	2.2	1.6
E37000036	The Marches	26.52	-1.20	77.7	3.1	1.9	1.9	0.0	1.0	0.2
E37000005	Cornwall and Isles of Scilly	23.81	-1.85	69.8	5.7	1.8	1.4	0.3	1.7	2.1

Source: ONS. Subregional productivity: labour productivity indices. Available at: <https://www.ons.gov.uk>

Total GVA figures are also available for broad SIC groups in the underlying datasets. These are used in other areas of the Outlook (LEP Profiles and Outlook report).

Table 48: Balanced (total) GVA (£ million), all industries, 2016

geo code	geo name	Indicator			%growth		%YoYgrowth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	1,498,232			17.1	7.0	3.7	3.2	5.2	3.9
E37000023	London	408,478	5.77	27.3	21.5	7.7	5.1	2.5	7.7	4.8
E37000030	South East	87,623	0.72	5.8	16.1	8.5	3.5	4.9	4.2	2.7
E37000020	Leeds City Region	66,469	0.38	4.4	13.4	6.9	2.6	4.3	2.6	3.3
E37000015	Greater Manchester	63,675	0.34	4.2	15.4	8.7	4.2	4.3	1.0	5.0
E37000041	South East Midlands	54,323	0.19	3.6	23.1	10.2	5.3	4.6	6.2	5.2
E37000010	Enterprise M3	54,259	0.19	3.6	14.6	5.5	2.4	3.1	3.8	4.6
E37000004	Coast to Capital	50,752	0.14	3.4	13.7	4.6	1.8	2.8	4.0	4.4
E37000012	Greater Birmingham and Solihull	46,810	0.07	3.1	20.5	9.6	4.6	4.7	5.8	4.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	45,403	0.05	3.0	14.6	6.1	3.6	2.4	3.5	4.4
E37000042	Greater Cambridge and Greater Peterborough	42,120	0.00	2.8	17.7	7.9	4.0	3.7	4.1	4.8
E37000029	Solent	41,362	-0.01	2.8	13.7	6.1	2.2	3.8	3.4	3.6
E37000025	North East	37,870	-0.07	2.5	9.8	4.2	1.5	2.7	4.3	1.1
E37000035	Thames Valley Berkshire	37,385	-0.08	2.5	14.1	7.2	4.1	3.0	3.7	2.6
E37000017	Hertfordshire	35,538	-0.10	2.4	25.7	8.7	4.0	4.5	6.8	8.3
E37000024	New Anglia	34,854	-0.12	2.3	13.7	5.2	3.3	1.9	3.4	4.5
E37000016	Heart of the South West	34,231	-0.13	2.3	14.2	6.1	3.3	2.8	3.5	4.0
E37000040	Sheffield City Region	34,048	-0.13	2.3	12.7	6.3	2.2	4.0	2.2	3.7
E37000037	West of England	33,233	-0.14	2.2	17.2	5.3	5.4	-0.1	8.3	2.8
E37000022	Liverpool City Region	30,858	-0.18	2.1	11.8	5.2	1.6	3.6	5.6	0.7
E37000019	Lancashire	30,821	-0.18	2.1	14.8	8.3	2.2	6.0	3.4	2.5
E37000003	Cheshire and Warrington	29,338	-0.20	2.0	18.4	7.3	6.1	1.1	5.5	4.6
E37000006	Coventry and Warwickshire	25,056	-0.27	1.7	25.7	8.4	4.0	4.2	7.1	8.3
E37000039	York, North Yorkshire and East Riding	24,338	-0.28	1.6	9.9	3.2	2.9	0.4	2.7	3.6
E37000021	Leicester and Leicestershire	23,467	-0.30	1.6	16.9	7.1	1.8	5.2	6.1	2.9
E37000027	Oxfordshire	22,776	-0.31	1.5	20.0	8.5	3.3	5.0	6.6	3.7
E37000032	Stoke-on-Trent and Staffordshire	21,814	-0.32	1.5	17.4	9.5	4.5	4.8	3.7	3.4
E37000014	Greater Lincolnshire	20,212	-0.35	1.3	10.2	2.8	0.5	2.3	3.9	3.2
E37000001	Black Country	20,120	-0.35	1.3	10.3	2.2	2.5	-0.3	5.7	2.1
E37000018	Humber	18,378	-0.38	1.2	8.9	5.7	1.0	4.7	2.7	0.2
E37000033	Swindon and Wiltshire	18,026	-0.38	1.2	15.8	8.2	5.8	2.2	6.1	0.9
E37000011	Gloucestershire	16,259	-0.41	1.1	14.6	5.0	3.2	1.7	7.2	1.9
E37000009	Dorset	16,130	-0.41	1.1	10.6	4.4	2.6	1.7	5.6	0.3
E37000002	Buckinghamshire Thames Valley	16,097	-0.41	1.1	15.7	7.6	2.7	4.7	5.0	2.4
E37000036	The Marches	14,010	-0.44	0.9	10.6	4.2	2.9	1.3	3.5	2.5
E37000038	Worcestershire	12,883	-0.46	0.9	20.4	10.0	4.3	5.4	4.8	4.5
E37000034	Tees Valley	12,804	-0.46	0.9	8.7	2.6	0.1	2.5	4.3	1.5
E37000007	Cumbria	11,853	-0.48	0.8	16.9	7.8	2.1	5.5	3.7	4.6
E37000005	Cornwall and Isles of Scilly	9,490	-0.52	0.6	12.5	8.0	4.0	3.8	1.7	2.4

Source: ONS. Regional gross value added (balanced) by local authority in the UK. Available at: <https://www.ons.gov.uk>

Business population

Business counts in number of local units. The table below shows figures for all sectors, with the underlying datasets containing information on the number of local units by different SIC sector breakdowns. These are used in other areas of the Outlook (LEP Profiles and Outlook report), as well as underlying data for the calculation of Location Quotients, to measure specialisation / concentration of different sectors in specific geographies.

Table 49: Business population (number of local units), all sectors, 2018

geo code	geo name	Indicator			%growth		%YoYgrowth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	2,697,205			16.1	4.4	0.0	4.3	3.8	7.2
E37000023	London	568,195	5.53	21.1	23.2	5.8	0.3	5.5	6.3	9.6
E37000030	South East	195,115	1.34	7.2	14.0	3.4	0.3	3.1	3.6	6.4
E37000020	Leeds City Region	125,900	0.56	4.7	15.3	3.5	-0.3	3.8	2.2	8.9
E37000015	Greater Manchester	123,730	0.53	4.6	26.9	12.7	4.2	8.1	4.4	7.9
E37000004	Coast to Capital	103,835	0.31	3.8	14.4	3.7	0.4	3.2	3.2	7.0
E37000041	South East Midlands	103,455	0.31	3.8	21.0	5.9	-2.9	9.1	5.9	7.8
E37000010	Enterprise M3	90,535	0.16	3.4	9.8	1.9	0.3	1.6	2.1	5.5
E37000012	Greater Birmingham and Solihull	87,850	0.13	3.3	24.6	10.9	0.2	10.7	5.7	6.2
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	86,500	0.12	3.2	13.9	0.9	-0.2	1.1	4.9	7.6
E37000016	Heart of the South West	84,485	0.09	3.1	8.1	1.9	0.1	1.7	1.3	4.7
E37000042	Greater Cambridge and Greater Peterborough	83,365	0.08	3.1	11.3	2.4	0.0	2.4	2.8	5.7
E37000024	New Anglia	74,735	-0.02	2.8	9.1	2.5	0.2	2.3	1.8	4.6
E37000017	Hertfordshire	69,575	-0.08	2.6	18.0	5.7	-2.4	8.3	4.4	6.9
E37000040	Sheffield City Region	67,255	-0.10	2.5	16.1	-0.8	-1.6	0.8	7.0	9.5
E37000025	North East	66,285	-0.11	2.5	12.8	2.8	0.0	2.8	2.0	7.6
E37000039	York, North Yorkshire and East Riding	62,235	-0.16	2.3	9.5	2.1	-0.1	2.2	1.5	5.6
E37000019	Lancashire	61,600	-0.16	2.3	11.9	3.1	0.5	2.6	1.6	6.8
E37000037	West of England	54,165	-0.25	2.0	13.9	2.8	0.0	2.8	3.5	7.1
E37000022	Liverpool City Region	52,305	-0.27	1.9	19.5	6.5	1.4	5.0	3.4	8.6
E37000003	Cheshire and Warrington	51,485	-0.28	1.9	18.7	8.5	4.6	3.7	2.8	6.4
E37000035	Thames Valley Berkshire	51,325	-0.28	1.9	14.2	3.7	0.0	3.7	4.3	5.6
E37000029	Solent	50,510	-0.29	1.9	16.3	5.5	1.1	4.4	3.7	6.3
E37000021	Leicester and Leicestershire	47,885	-0.32	1.8	18.1	5.9	-0.8	6.7	3.6	7.6
E37000032	Stoke-on-Trent and Staffordshire	46,190	-0.34	1.7	11.9	3.6	0.0	3.6	2.1	5.8
E37000014	Greater Lincolnshire	45,005	-0.35	1.7	6.3	-0.5	-1.4	0.9	1.5	5.2
E37000006	Coventry and Warwickshire	43,205	-0.37	1.6	15.2	2.4	-1.2	3.7	5.1	7.0
E37000001	Black Country	39,825	-0.41	1.5	13.7	3.8	-0.9	4.8	3.5	5.7
E37000009	Dorset	37,770	-0.43	1.4	9.2	2.2	0.6	1.6	2.0	4.7
E37000018	Humber	36,525	-0.45	1.4	9.8	1.6	-1.6	3.3	1.3	6.6
E37000027	Oxfordshire	36,455	-0.45	1.4	9.9	1.5	0.3	1.3	2.4	5.7
E37000036	The Marches	35,470	-0.46	1.3	7.4	1.2	-0.1	1.3	1.4	4.7
E37000033	Swindon and Wiltshire	35,120	-0.46	1.3	11.9	2.9	-7.8	11.5	2.7	5.9
E37000011	Gloucestershire	34,020	-0.47	1.3	12.2	3.6	1.5	2.1	2.8	5.4
E37000002	Buckinghamshire Thames Valley	33,905	-0.48	1.3	11.8	2.6	-0.8	3.4	3.2	5.7
E37000038	Worcestershire	33,330	-0.48	1.2	28.1	20.0	8.1	11.0	2.0	4.7
E37000005	Cornwall and Isles of Scilly	28,285	-0.54	1.0	8.8	1.5	-0.3	1.8	1.2	5.9
E37000007	Cumbria	28,110	-0.54	1.0	6.9	0.2	-0.5	0.7	1.0	5.6
E37000034	Tees Valley	21,970	-0.61	0.8	12.9	0.3	-1.5	1.8	2.6	9.7

Source: NOMIS Business counts UK. Available at: <https://www.nomisweb.co.uk/>

Table 50: Business demography, net change (births - deaths), number of firms 2017

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	18,535			-81.4	-80.3	-84.4
E37000015	Greater Manchester	7,250	3.22	39.1	55.4	114.8	-7.7
E37000023	London	6,030	2.63	32.5	-82.5	-83.8	-83.0
E37000012	Greater Birmingham and Solihull	3,610	1.45	19.5	32.7	7.9	-53.3
E37000038	Worcestershire	3,565	1.43	19.2	666.7	692.2	30.6
E37000022	Liverpool City Region	1,590	0.47	8.6	-38.8	-9.9	-18.0
E37000003	Cheshire and Warrington	1,465	0.41	7.9	-12.5	57.5	-2.7
E37000017	Hertfordshire	1,115	0.24	6.0	-53.7	-51.3	-78.0
E37000019	Lancashire	995	0.18	5.4	-37.0	17.8	-15.0
E37000004	Coast to Capital	885	0.13	4.8	-73.9	-72.5	-72.2
E37000030	South East	880	0.13	4.7	-85.0	-85.3	-84.8
E37000029	Solent	820	0.10	4.4	-58.3	-57.4	-64.2
E37000010	Enterprise M3	810	0.09	4.4	-72.8	-69.6	-61.3
E37000024	New Anglia	755	0.07	4.1	-49.3	-12.7	-52.4
E37000001	Black Country	655	0.02	3.5	-52.5	-56.2	-68.0
E37000025	North East	600	-0.01	3.2	-73.9	-53.7	-65.2
E37000035	Thames Valley Berkshire	505	-0.05	2.7	-76.7	-75.8	-72.3
E37000009	Dorset	400	-0.10	2.2	-47.0	-43.7	-44.8
E37000027	Oxfordshire	320	-0.14	1.7	-66.8	-57.6	-58.2
E37000042	Greater Cambridge and Greater Peterborough	260	-0.17	1.4	-88.8	-88.1	-88.5
E37000005	Cornwall and Isles of Scilly	215	-0.19	1.2	-61.6	13.2	-46.2
E37000039	York, North Yorkshire and East Riding	165	-0.22	0.9	-86.6	-80.8	-89.0
E37000016	Heart of the South West	135	-0.23	0.7	-91.1	-83.9	-87.3
E37000036	The Marches	100	-0.25	0.5	-84.5	-70.1	-79.8
E37000037	West of England	70	-0.26	0.4	-96.3	-95.3	-95.6
E37000006	Coventry and Warwickshire	35	-0.28	0.2	-97.8	-98.2	-97.9
E37000002	Buckinghamshire Thames Valley	30	-0.28	0.2	-96.7	-96.8	-96.4
E37000011	Gloucestershire	10	-0.29	0.1	-98.7	-98.3	-98.0
E37000032	Stoke-on-Trent and Staffordshire	10	-0.29	0.1	-99.3	-99.0	-99.3
E37000021	Leicester and Leicestershire	-20	-0.31	-0.1	-101.2	-101.8	-100.8
E37000018	Humber	-55	-0.33	-0.3	-106.5	-110.8	-105.1
E37000034	Tees Valley	-130	-0.36	-0.7	-115.1	-120.6	-124.5
E37000007	Cumbria	-240	-0.41	-1.3	-142.1	-217.1	-260.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	-310	-0.45	-1.7	-112.5	-107.7	-112.8
E37000020	Leeds City Region	-515	-0.55	-2.8	-112.0	-114.1	-111.6
E37000040	Sheffield City Region	-950	-0.76	-5.1	-151.1	-123.6	-139.4
E37000041	South East Midlands	-2,680	-1.60	-14.5	-171.6	-168.5	-127.7
E37000033	Swindon and Wiltshire	-5,635	-3.03	-30.4	-644.4	-841.4	-198.2
E37000014	Greater Lincolnshire						

Source: ONS. Business demography. Available at: <https://www.ons.gov.uk>

Economic dynamism

Start-ups and high growth firms

Business start-ups per 10k population

The number of UK-owned employer firms born each year (first registered for VAT and/or PAYE and recorded as active and with at least one employee).

Table 51: Business start-ups (firms per 10k population), 2017

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	53			8.2	8.2	
E37000023	London	91	2.89	171.7		4.2	2.2
E37000038	Worcestershire	79	2.11	149.1		108.1	113.5
E37000041	South East Midlands	78	2.05	147.2		49.4	32.2
E37000029	Solent	68	1.40	128.3		11.6	9.7
E37000012	Greater Birmingham and Solihull	67	1.34	126.4		70.2	45.7
E37000033	Swindon and Wiltshire	62	1.02	117.0		52.0	47.6
E37000015	Greater Manchester	61	0.95	115.1		42.3	35.6
E37000002	Buckinghamshire Thames Valley	60	0.89	113.2		1.9	5.3
E37000035	Thames Valley Berkshire	59	0.82	111.3		-2.3	-6.3
E37000021	Leicester and Leicestershire	54	0.50	101.9		34.2	35.0
E37000003	Cheshire and Warrington	53	0.44	100.0		9.7	10.4
E37000010	Enterprise M3	52	0.37	98.1		-5.8	-1.9
E37000004	Coast to Capital	50	0.24	94.3		-1.1	0.0
E37000006	Coventry and Warwickshire	49	0.18	92.5		-1.0	0.0
E37000030	South East	44	-0.14	83.0		-1.3	-2.2
E37000037	West of England	44	-0.14	83.0		-3.5	2.3
E37000022	Liverpool City Region	42	-0.27	79.2		18.5	16.7
E37000039	York, North Yorkshire and East Riding	40	-0.40	75.5		6.9	14.3
E37000027	Oxfordshire	40	-0.40	75.5		-5.4	-2.4
E37000001	Black Country	39	-0.47	73.6		21.8	14.7
E37000019	Lancashire	38	-0.53	71.7		7.6	11.8
E37000018	Humber	38	-0.53	71.7		17.9	31.0
E37000020	Leeds City Region	38	-0.53	71.7		-9.4	0.0
E37000009	Dorset	38	-0.53	71.7		-3.5	-2.6
E37000011	Gloucestershire	38	-0.53	71.7		-6.7	-9.5
E37000040	Sheffield City Region	37	-0.60	69.8		0.9	-15.9
E37000017	Hertfordshire	37	-0.60	69.8		-38.1	-2.6
E37000032	Stoke-on-Trent and Staffordshire	36	-0.66	67.9		7.5	12.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	35	-0.72	66.0		-2.5	-16.7
E37000042	Greater Cambridge and Greater Peterborough	35	-0.72	66.0		-15.7	-14.6
E37000024	New Anglia	35	-0.72	66.0		12.7	16.7
E37000034	Tees Valley	34	-0.79	64.2		-2.6	3.0
E37000014	Greater Lincolnshire	32	-0.92	60.4		-7.6	-3.0
E37000036	The Marches	31	-0.98	58.5		-6.6	-6.1
E37000007	Cumbria	30	-1.05	56.6		-17.7	0.0
E37000016	Heart of the South West	30	-1.05	56.6		-4.0	3.4
E37000005	Cornwall and Isles of Scilly	30	-1.05	56.6		-3.7	3.4
E37000025	North East	23	-1.50	43.4		-20.7	15.0

Source: ERC Local Growth Dashboard Reports. Available at: www.enterpriseresearch.ac.uk

Private sector job growth

Growth in the number of private sector jobs (excluding firms registered for PAYE only).

Table 52: Private sector jobs (number of jobs), 2015

geo code	geo name	Indicator			%growth		
		value	Zscore	%parent	5yrs	3yrs	2yrs
E92000001	England	21,926,589			12.9	8.0	3.0
E37000023	London	4,147,650	5.51	18.9	17.8	9.0	3.9
E37000030	South East	1,292,448	1.10	5.9	13.4	10.4	4.9
E37000020	Leeds City Region	1,092,117	0.79	5.0	12.4	9.1	3.6
E37000015	Greater Manchester	994,638	0.64	4.5	11.9	5.7	2.5
E37000041	South East Midlands	761,151	0.28	3.5	11.0	7.4	2.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	744,012	0.26	3.4	12.2	7.2	3.7
E37000012	Greater Birmingham and Solihull	721,202	0.22	3.3	13.9	9.8	3.0
E37000004	Coast to Capital	692,356	0.18	3.2	10.4	7.0	3.5
E37000042	Greater Cambridge and Greater Peterborough	636,595	0.09	2.9	14.5	9.7	3.6
E37000010	Enterprise M3	634,650	0.09	2.9	11.0	7.7	2.9
E37000025	North East	615,972	0.06	2.8	12.3	8.6	4.1
E37000040	Sheffield City Region	575,430	0.00	2.6	12.0	8.2	2.2
E37000016	Heart of the South West	558,772	-0.03	2.5	9.0	5.6	0.8
E37000024	New Anglia	550,733	-0.04	2.5	11.9	7.8	1.1
E37000017	Hertfordshire	498,475	-0.12	2.3	15.9	10.7	3.4
E37000019	Lancashire	487,665	-0.14	2.2	6.9	4.2	1.0
E37000037	West of England	465,459	-0.17	2.1	13.2	10.1	1.2
E37000022	Liverpool City Region	461,915	-0.18	2.1	8.7	6.0	0.7
E37000035	Thames Valley Berkshire	427,548	-0.23	2.0	9.1	5.7	3.5
E37000029	Solent	423,893	-0.24	1.9	10.6	4.6	3.3
E37000003	Cheshire and Warrington	402,146	-0.27	1.8	13.1	8.9	3.4
E37000039	York, North Yorkshire and East Riding	394,538	-0.28	1.8	11.2	8.5	2.7
E37000021	Leicester and Leicestershire	385,330	-0.30	1.8	13.0	7.8	5.1
E37000032	Stoke-on-Trent and Staffordshire	377,037	-0.31	1.7	14.7	9.2	3.5
E37000006	Coventry and Warwickshire	367,143	-0.32	1.7	13.9	9.5	2.1
E37000001	Black Country	359,477	-0.34	1.6	9.2	4.7	3.5
E37000014	Greater Lincolnshire	340,218	-0.37	1.6	7.7	5.5	1.3
E37000027	Oxfordshire	301,183	-0.43	1.4	14.8	10.7	3.6
E37000018	Humber	298,009	-0.43	1.4	10.2	6.8	2.1
E37000009	Dorset	262,839	-0.48	1.2	12.9	7.4	0.9
E37000033	Swindon and Wiltshire	256,899	-0.49	1.2	12.1	9.2	1.8
E37000011	Gloucestershire	236,374	-0.53	1.1	16.5	7.7	1.9
E37000036	The Marches	220,188	-0.55	1.0	9.0	4.8	0.4
E37000034	Tees Valley	206,120	-0.57	0.9	11.0	8.1	2.7
E37000002	Buckinghamshire Thames Valley	197,718	-0.59	0.9	11.9	8.4	2.5
E37000038	Worcestershire	194,032	-0.59	0.9	8.7	7.1	2.1
E37000007	Cumbria	174,669	-0.62	0.8	6.2	6.8	0.5
E37000005	Cornwall and Isles of Scilly	169,988	-0.63	0.8	14.4	5.7	1.9

Source: Business Register and Employment Survey accessed via Nomis. Available at: <https://www.nomisweb.co.uk/>

Start-up survival rates

The percentage of business start-up firms surviving for three years from birth (t+3).

Table 53: Start-up 3-year Survival Rates (%), 2014-2017

geo code	geo name	Indicator			<i>%growth</i>
		value	<i>Zscore</i>	<i>%parent</i>	2yrs (2013-16 & 14-17)
E92000001	England	54.8			2.2
E37000011	Gloucestershire	61.3	2.29	111.9	5.9
E37000039	York, North Yorkshire and East Riding	59.2	1.33	108.0	3.5
E37000027	Oxfordshire	59.0	1.24	107.7	2.5
E37000038	Worcestershire	58.7	1.11	107.1	5.2
E37000002	Buckinghamshire Thames Valley	58.6	1.06	106.9	4.2
E37000033	Swindon and Wiltshire	58.3	0.92	106.4	3.4
E37000032	Stoke-on-Trent and Staffordshire	58.2	0.88	106.2	10.9
E37000016	Heart of the South West	58.1	0.83	106.0	4.6
E37000007	Cumbria	57.9	0.74	105.7	-4.9
E37000042	Greater Cambridge and Greater Peterborough	57.9	0.74	105.7	2.6
E37000036	The Marches	57.8	0.69	105.5	-0.1
E37000024	New Anglia	57.7	0.65	105.3	1.9
E37000017	Hertfordshire	57.4	0.51	104.7	2.3
E37000009	Dorset	57.2	0.42	104.4	3.5
E37000004	Coast to Capital	57.0	0.33	104.0	2.3
E37000010	Enterprise M3	56.9	0.28	103.8	1.7
E37000003	Cheshire and Warrington	56.7	0.19	103.5	2.6
E37000006	Coventry and Warwickshire	56.6	0.15	103.3	0.2
E37000037	West of England	56.6	0.15	103.3	-1.1
E37000005	Cornwall and Isles of Scilly	56.6	0.15	103.3	-3.8
E37000035	Thames Valley Berkshire	56.5	0.10	103.1	4.7
E37000021	Leicester and Leicestershire	56.4	0.06	102.9	0.6
E37000030	South East	56.4	0.06	102.9	0.8
E37000020	Leeds City Region	56.0	-0.13	102.2	3.2
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	56.0	-0.13	102.2	-1.2
E37000029	Solent	56.0	-0.13	102.2	-0.3
E37000018	Humber	55.5	-0.36	101.3	2.3
E37000019	Lancashire	55.2	-0.49	100.7	2.2
E37000041	South East Midlands	55.1	-0.54	100.5	
E37000001	Black Country	54.9	-0.63	100.2	4.9
E37000034	Tees Valley	54.7	-0.72	99.8	0.1
E37000040	Sheffield City Region	54.7	-0.72	99.8	0.6
E37000012	Greater Birmingham and Solihull	54.5	-0.81	99.5	5.5
E37000025	North East	54.2	-0.95	98.9	2.7
E37000015	Greater Manchester	53.0	-1.50	96.7	3.4
E37000023	London	51.8	-2.04	94.5	3.4
E37000022	Liverpool City Region	51.7	-2.09	94.3	0.2
E37000014	Greater Lincolnshire	50.0	-2.87	91.2	-4.6

Source: ERC Local Growth Dashboard Reports. Available at: www.enterpriseresearch.ac.uk

Start-ups that scale

The percentage of surviving business start-up firms (with turnover <500k at birth year t) that reached at least £1m turnover in the third year (t+3).

Table 54: Start-ups reaching £1m turnover (%), 2014-2017

geo code	geo name	Indicator			%growth
		value	Zscore	%parent	2yrs (2013-16 & 14-17)
E92000001	England	1.9			-5.0
E37000015	Greater Manchester	2.6	2.53	136.8	21.5
E37000003	Cheshire and Warrington	2.5	2.25	131.6	20.9
E37000023	London	2.5	2.25	131.6	-5.3
E37000018	Humber	2.4	1.97	126.3	23.1
E37000019	Lancashire	2.3	1.68	121.1	-1.4
E37000030	South East	1.9	0.56	100.0	-3.0
E37000017	Hertfordshire	1.9	0.56	100.0	-6.7
E37000037	West of England	1.9	0.56	100.0	21.9
E37000022	Liverpool City Region	1.8	0.28	94.7	2.6
E37000032	Stoke-on-Trent and Staffordshire	1.8	0.28	94.7	-3.6
E37000001	Black Country	1.8	0.28	94.7	-29.4
E37000010	Enterprise M3	1.8	0.28	94.7	-12.1
E37000033	Swindon and Wiltshire	1.8	0.28	94.7	79.2
E37000025	North East	1.7	-0.01	89.5	6.5
E37000039	York, North Yorkshire and East Riding	1.7	-0.01	89.5	-0.3
E37000020	Leeds City Region	1.7	-0.01	89.5	-12.3
E37000035	Thames Valley Berkshire	1.7	-0.01	89.5	11.7
E37000027	Oxfordshire	1.7	-0.01	89.5	-3.0
E37000040	Sheffield City Region	1.6	-0.29	84.2	-12.9
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	1.6	-0.29	84.2	20.5
E37000042	Greater Cambridge and Greater Peterborough	1.6	-0.29	84.2	-4.4
E37000041	South East Midlands	1.6	-0.29	84.2	
E37000012	Greater Birmingham and Solihull	1.6	-0.29	84.2	-9.6
E37000006	Coventry and Warwickshire	1.6	-0.29	84.2	17.4
E37000021	Leicester and Leicestershire	1.5	-0.57	78.9	-2.2
E37000036	The Marches	1.5	-0.57	78.9	12.7
E37000024	New Anglia	1.5	-0.57	78.9	-19.8
E37000004	Coast to Capital	1.5	-0.57	78.9	-15.1
E37000029	Solent	1.5	-0.57	78.9	-16.0
E37000002	Buckinghamshire Thames Valley	1.5	-0.57	78.9	-16.7
E37000014	Greater Lincolnshire	1.4	-0.85	73.7	-37.6
E37000016	Heart of the South West	1.4	-0.85	73.7	6.7
E37000009	Dorset	1.4	-0.85	73.7	-28.9
E37000011	Gloucestershire	1.3	-1.13	68.4	-9.6
E37000038	Worcestershire	1.2	-1.41	63.2	-29.2
E37000005	Cornwall and Isles of Scilly	1.2	-1.41	63.2	-39.2
E37000034	Tees Valley				
E37000007	Cumbria				

Source: ERC Local Growth Dashboard Reports. Available at: www.enterpriseresearch.ac.uk

The percentage of UK-owned established firms (at least one-year-old) with turnover £1-2m in year t that reached at least £3m turnover in the third year (t+3).

Table 55: Survivors reaching £3m turnover (%), 2014-2017

geo code	geo name	Indicator			<i>%growth</i>
		value	<i>Zscore</i>	<i>%parent</i>	2yrs (2013-16 & 14-17)
E92000001	England	7.5			10.3
E37000023	London	9.4	2.05	125.3	8.9
E37000042	Greater Cambridge and Greater Peterborough	9.0	1.73	120.0	57.1
E37000017	Hertfordshire	8.9	1.65	118.7	13.7
E37000021	Leicester and Leicestershire	8.7	1.49	116.0	37.6
E37000032	Stoke-on-Trent and Staffordshire	8.3	1.16	110.7	12.2
E37000003	Cheshire and Warrington	8.2	1.08	109.3	-2.1
E37000035	Thames Valley Berkshire	8.2	1.08	109.3	-1.5
E37000037	West of England	8.1	1.00	108.0	-0.2
E37000015	Greater Manchester	7.9	0.84	105.3	1.8
E37000041	South East Midlands	7.9	0.84	105.3	
E37000012	Greater Birmingham and Solihull	7.5	0.52	100.0	17.8
E37000033	Swindon and Wiltshire	7.5	0.52	100.0	-5.7
E37000025	North East	7.4	0.44	98.7	14.9
E37000030	South East	7.3	0.36	97.3	21.6
E37000010	Enterprise M3	7.2	0.28	96.0	5.9
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7.1	0.20	94.7	-10.8
E37000004	Coast to Capital	7.1	0.20	94.7	25.0
E37000040	Sheffield City Region	7.0	0.11	93.3	3.5
E37000006	Coventry and Warwickshire	6.8	-0.05	90.7	-3.6
E37000022	Liverpool City Region	6.7	-0.13	89.3	22.0
E37000020	Leeds City Region	6.7	-0.13	89.3	8.1
E37000029	Solent	6.7	-0.13	89.3	1.3
E37000027	Oxfordshire	6.6	-0.21	88.0	20.5
E37000009	Dorset	6.4	-0.37	85.3	-27.4
E37000001	Black Country	6.3	-0.45	84.0	15.3
E37000019	Lancashire	6.2	-0.53	82.7	12.9
E37000039	York, North Yorkshire and East Riding	6.2	-0.53	82.7	11.5
E37000038	Worcestershire	6.1	-0.61	81.3	1.9
E37000036	The Marches	6.0	-0.69	80.0	28.3
E37000018	Humber	5.7	-0.94	76.0	9.0
E37000002	Buckinghamshire Thames Valley	5.7	-0.94	76.0	22.7
E37000016	Heart of the South West	5.6	-1.02	74.7	12.6
E37000034	Tees Valley	5.5	-1.10	73.3	-20.4
E37000014	Greater Lincolnshire	5.4	-1.18	72.0	-10.8
E37000024	New Anglia	5.4	-1.18	72.0	41.2
E37000011	Gloucestershire	5.0	-1.50	66.7	-20.6
E37000007	Cumbria	4.5	-1.90	60.0	-25.7
E37000005	Cornwall and Isles of Scilly	4.1	-2.23	54.7	-7.3

Source: ERC Local Growth Dashboard Reports. Available at: www.enterpriseresearch.ac.uk

High growth businesses

The percentage of firms (with at least ten employees) with annualised average employment growth of at least 20% over a three-year period (OECD definition).

Table 56: High Growth Firms (%), 2014-2017

geo code	geo name	Indicator			<i>%growth</i>
		value	<i>Zscore</i>	<i>%parent</i>	2yrs (2013-16 & 14-17)
E92000001	England	6.4			4.9
E37000023	London	8.0	2.60	125.0	-0.5
E37000003	Cheshire and Warrington	7.4	1.78	115.6	2.8
E37000035	Thames Valley Berkshire	7.1	1.36	110.9	-2.3
E37000037	West of England	6.9	1.08	107.8	-8.2
E37000019	Lancashire	6.7	0.81	104.7	4.8
E37000032	Stoke-on-Trent and Staffordshire	6.7	0.81	104.7	14.8
E37000004	Coast to Capital	6.7	0.81	104.7	1.6
E37000041	South East Midlands	6.6	0.67	103.1	
E37000027	Oxfordshire	6.6	0.67	103.1	10.0
E37000042	Greater Cambridge and Greater Peterborough	6.5	0.53	101.6	3.0
E37000017	Hertfordshire	6.5	0.53	101.6	-0.4
E37000036	The Marches	6.4	0.39	100.0	10.8
E37000002	Buckinghamshire Thames Valley	6.4	0.39	100.0	-1.6
E37000010	Enterprise M3	6.4	0.39	100.0	-13.0
E37000033	Swindon and Wiltshire	6.4	0.39	100.0	-0.4
E37000034	Tees Valley	6.3	0.26	98.4	-4.5
E37000011	Gloucestershire	6.3	0.26	98.4	-3.5
E37000039	York, North Yorkshire and East Riding	6.1	-0.02	95.3	-6.3
E37000021	Leicester and Leicestershire	6.1	-0.02	95.3	-4.5
E37000006	Coventry and Warwickshire	6.1	-0.02	95.3	7.6
E37000015	Greater Manchester	6.0	-0.16	93.8	-13.8
E37000020	Leeds City Region	6.0	-0.16	93.8	-10.7
E37000040	Sheffield City Region	5.9	-0.30	92.2	-0.1
E37000022	Liverpool City Region	5.8	-0.44	90.6	-3.1
E37000030	South East	5.8	-0.44	90.6	3.6
E37000009	Dorset	5.8	-0.44	90.6	-0.1
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	5.7	-0.57	89.1	-1.9
E37000012	Greater Birmingham and Solihull	5.7	-0.57	89.1	-5.4
E37000024	New Anglia	5.7	-0.57	89.1	3.4
E37000029	Solent	5.7	-0.57	89.1	-14.9
E37000025	North East	5.6	-0.71	87.5	-10.4
E37000014	Greater Lincolnshire	5.5	-0.85	85.9	-1.4
E37000005	Cornwall and Isles of Scilly	5.5	-0.85	85.9	-8.8
E37000018	Humber	5.2	-1.26	81.2	-8.2
E37000007	Cumbria	5.0	-1.54	78.1	-1.1
E37000016	Heart of the South West	5.0	-1.54	78.1	-8.3
E37000038	Worcestershire	4.6	-2.09	71.9	-20.6
E37000001	Black Country	4.4	-2.37	68.8	-6.1

Source: ERC Local Growth Dashboard Reports. Available at: www.enterpriseresearch.ac.uk

Firms that innovate

The percentage of firms reporting product or service innovation in the three years prior to the UK Innovation Survey.

Table 57: Percentage of firms undertaking product or service innovation (%), 2019

geo code	geo name	Indicator			%growth	
		value	Zscore	%parent	2013-19	2017-19
E92000001	England	25.2			32.6	20.0
E37000002	Buckinghamshire Thames Valley	38.1	3.01	151.2	124.1	76.4
E37000041	South East Midlands	36.0	2.48	142.9	44.0	9.1
E37000038	Worcestershire	32.7	1.66	129.8	118.0	72.1
E37000042	Greater Cambridge and Greater Peterborough	31.6	1.38	125.4	31.7	17.9
E37000027	Oxfordshire	30.9	1.21	122.6	14.4	8.8
E37000010	Enterprise M3	29.9	0.96	118.7	24.6	20.6
E37000006	Coventry and Warwickshire	29.7	0.91	117.9	65.0	13.8
E37000001	Black Country	28.5	0.61	113.1	42.5	30.7
E37000035	Thames Valley Berkshire	28.4	0.58	112.7	42.0	25.7
E37000009	Dorset	28.1	0.51	111.5	27.7	65.3
E37000011	Gloucestershire	28.0	0.48	111.1	7.7	8.1
E37000017	Hertfordshire	26.7	0.16	106.0	78.0	13.1
E37000018	Humber	26.4	0.08	104.8	103.1	24.5
E37000020	Leeds City Region	26.3	0.06	104.4	38.4	15.9
E37000012	Greater Birmingham and Solihull	26.3	0.06	104.4	46.1	14.3
E37000030	South East	26.3	0.06	104.4	46.1	37.7
E37000004	Coast to Capital	26.1	0.01	103.6	37.4	31.8
E37000022	Liverpool City Region	25.6	-0.12	101.6	28.0	8.9
E37000021	Leicester and Leicestershire	25.3	-0.19	100.4	20.5	84.7
E37000003	Cheshire and Warrington	25.0	-0.26	99.2	25.0	-2.0
E37000029	Solent	25.0	-0.26	99.2	47.1	28.9
E37000016	Heart of the South West	25.0	-0.26	99.2	31.6	54.3
E37000025	North East	24.8	-0.31	98.4	30.5	17.0
E37000032	Stoke-on-Trent and Staffordshire	24.8	-0.31	98.4	37.8	-4.2
E37000015	Greater Manchester	24.2	-0.46	96.0	34.4	26.0
E37000019	Lancashire	24.1	-0.49	95.6	0.4	24.2
E37000039	York, North Yorkshire and East Riding	23.9	-0.54	94.8	99.2	11.7
E37000036	The Marches	23.2	-0.71	92.1	54.7	13.7
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	22.8	-0.81	90.5	20.0	24.6
E37000024	New Anglia	22.8	-0.81	90.5	62.9	-0.9
E37000023	London	22.7	-0.84	90.1	33.5	24.0
E37000037	West of England	22.6	-0.86	89.7	41.2	-5.0
E37000040	Sheffield City Region	22.1	-0.99	87.7	22.8	4.7
E37000033	Swindon and Wiltshire	21.8	-1.06	86.5	-9.2	-4.0
E37000005	Cornwall and Isles of Scilly	21.6	-1.11	85.7	13.7	-26.0
E37000007	Cumbria	21.3	-1.19	84.5	52.1	33.1
E37000014	Greater Lincolnshire	20.9	-1.29	82.9	22.9	25.9
E37000034	Tees Valley	20.8	-1.31	82.5	-13.3	14.9

Source: ERC Innovation Benchmarks Reports. Available at: www.enterpriseresearch.ac.uk

The percentage of firms reporting process innovation in the three years prior to the UK Innovation Survey.

Table 58: Percentage of firms undertaking process innovation (%), 2019

geo code	geo name	Indicator			%growth	
		value	Zscore	%parent	2013-19	2017-19
E92000001	England	17.0			54.5	21.4
E37000027	Oxfordshire	23.8	2.03	140.0	25.3	46.0
E37000018	Humber	23.3	1.87	137.1	232.9	-10.7
E37000038	Worcestershire	23.2	1.83	136.5	110.9	17.2
E37000041	South East Midlands	22.0	1.43	129.4	57.1	16.4
E37000022	Liverpool City Region	21.7	1.32	127.6	66.9	14.2
E37000007	Cumbria	20.5	0.92	120.6		159.5
E37000009	Dorset	20.5	0.92	120.6	36.7	107.1
E37000001	Black Country	19.9	0.72	117.1	65.8	30.1
E37000037	West of England	19.7	0.65	115.9	40.7	121.3
E37000020	Leeds City Region	19.6	0.61	115.3	78.2	29.8
E37000003	Cheshire and Warrington	19.4	0.55	114.1	49.2	7.8
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	19.4	0.55	114.1	142.5	43.7
E37000036	The Marches	19.2	0.48	112.9	140.0	-6.8
E37000042	Greater Cambridge and Greater Peterborough	18.7	0.31	110.0	24.7	46.1
E37000019	Lancashire	18.5	0.24	108.8	42.3	1.6
E37000039	York, North Yorkshire and East Riding	18.3	0.17	107.6	128.8	18.1
E37000002	Buckinghamshire Thames Valley	18.3	0.17	107.6		17.3
E37000010	Enterprise M3	17.9	0.04	105.3	62.7	26.9
E37000014	Greater Lincolnshire	17.6	-0.06	103.5	151.4	-17.4
E37000030	South East	17.6	-0.06	103.5	95.6	66.0
E37000017	Hertfordshire	17.4	-0.13	102.4	74.0	56.8
E37000016	Heart of the South West	17.3	-0.16	101.8	73.0	22.7
E37000035	Thames Valley Berkshire	16.9	-0.30	99.4	69.0	-0.6
E37000012	Greater Birmingham and Solihull	16.5	-0.43	97.1	65.0	26.9
E37000029	Solent	16.5	-0.43	97.1	83.3	0.0
E37000025	North East	16.0	-0.60	94.1	60.0	-17.5
E37000015	Greater Manchester	16.0	-0.60	94.1	33.3	16.8
E37000040	Sheffield City Region	15.8	-0.67	92.9	21.5	-12.7
E37000021	Leicester and Leicestershire	15.6	-0.74	91.8	11.4	64.2
E37000023	London	15.2	-0.87	89.4	38.2	27.7
E37000004	Coast to Capital	14.8	-1.01	87.1	13.8	52.6
E37000032	Stoke-on-Trent and Staffordshire	14.6	-1.08	85.9	21.7	-16.1
E37000033	Swindon and Wiltshire	14.3	-1.18	84.1	-4.7	-10.1
E37000011	Gloucestershire	14.0	-1.28	82.4	7.7	-38.9
E37000006	Coventry and Warwickshire	13.0	-1.62	76.5	18.2	-10.3
E37000034	Tees Valley	12.5	-1.79	73.5	-21.9	-26.0
E37000024	New Anglia	12.5	-1.79	73.5	13.6	-20.4
E37000005	Cornwall and Isles of Scilly					

Source: ERC Innovation Benchmarks Reports. Available at: www.enterpriseresearch.ac.uk

Trade balance

The following chapter presents available indicators about the trade balance of subregional geographies, in goods (imports and exports) and services (exports). These data are available at the level of NUTS3 areas and are still labelled as “beta” or “experimental”. Trend information or growth rates are not yet available, but we have the expectation that this information will be available in the near future and can be a useful indicator to keep track of over time.

NUTS3 areas cannot be reconciled with LEPs on an exact-fit basis, in the same way that Local Authorities can. For this reason, LEP-level figures have not been calculated or provided. However, we have still organised the indicator tables in a way where NUTS3 areas totally or partially covered by a LEP are organised under each LEP’s heading. This allows a LEP user to more quickly find the values that are relevant for his or her geography of interest.

Trade in goods - Imports

Table 59: Value of sub-regional imports (million £), NUTS3 2017

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	350,353		100.0
E37000041	South East Midlands			
UKJ12	Milton Keynes	15,337	4.52	4.4
UKJ14	Oxfordshire	5,004	0.81	1.4
UKJ13	Buckinghamshire CC	4,185	0.52	1.2
UKH21	Luton	3,563	0.30	1.0
UKF24	West Northamptonshire	2,493	-0.09	0.7
UKF25	North Northamptonshire	2,062	-0.24	0.6
UKH25	Central Bedfordshire	1,508	-0.44	0.4
UKH24	Bedford	508	-0.80	0.1
E37000017	Hertfordshire			
UKH23	Hertfordshire	14,972	4.39	4.3
E37000042	Greater Cambridge and Greater Peterborough			
UKH23	Hertfordshire	14,972	4.39	4.3
UKH12	Cambridgeshire CC	6,165	1.23	1.8
UKF22	Leicestershire CC and Rutland	4,399	0.60	1.3
UKH14	Suffolk	3,094	0.13	0.9
UKF30	Lincolnshire	2,861	0.04	0.8
UKH35	West Essex	2,039	-0.25	0.6
UKH11	Peterborough	1,522	-0.44	0.4
UKH16	North and West Norfolk	668	-0.74	0.2
E37000035	Thames Valley Berkshire			
UKJ11	Berkshire	13,424	3.84	3.8
E37000010	Enterprise M3			
UKJ25	West Surrey	12,409	3.47	3.5
UKJ37	North Hampshire	7,499	1.71	2.1
UKJ36	Central Hampshire	5,600	1.03	1.6
E37000023	London			
UKI32	Westminster	10,494	2.78	3.0
UKI74	Harrow and Hillingdon	9,233	2.33	2.6
UKI31	Camden and City of London	7,601	1.75	2.2
UKI42	Tower Hamlets	3,399	0.24	1.0
UKI75	Hounslow and Richmond upon Thames	3,114	0.14	0.9
UKI33	Kensington and Chelsea and Hammersmith and Fulham	3,099	0.13	0.9
UKI52	Barking and Dagenham and Havering	2,785	0.02	0.8
UKI73	Ealing	2,762	0.01	0.8
UKI45	Lambeth	2,136	-0.22	0.6
UKI43	Haringey and Islington	1,958	-0.28	0.6
UKI63	Merton, Kingston upon Thames and Sutton	1,718	-0.37	0.5

Table 59: Value of sub-regional imports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKI72	Brent	1,531	-0.43	0.4
UKI44	Lewisham and Southwark	1,526	-0.43	0.4
UKI41	Hackney and Newham	1,208	-0.55	0.3
UKI34	Wandsworth	1,190	-0.56	0.3
UKI51	Beale and Greenwich	1,047	-0.61	0.3
UKI54	Enfield	946	-0.64	0.3
UKI71	Barnet	944	-0.64	0.3
UKI61	Bromley	943	-0.64	0.3
UKI62	Croydon	805	-0.69	0.2
UKI53	Redbridge and Waltham Forest	722	-0.72	0.2
E37000011	Gloucestershire			
UKK13	Gloucestershire	6,841	1.47	2.0
E37000005	Cornwall and Isles of Scilly			
UKG13	Warwickshire	6,667	1.41	1.9
UKG33	Coventry	2,835	0.04	0.8
UKK30	Cornwall and Isles of Scilly	688	-0.74	0.2
E37000029	Solent			
UKJ36	Central Hampshire	5,600	1.03	1.6
UKJ35	South Hampshire	3,460	0.26	1.0
UKJ31	Portsmouth	987	-0.63	0.3
UKJ34	Isle of Wight	754	-0.71	0.2
UKJ32	Southampton	455	-0.82	0.1
E37000014	Greater Lincolnshire			
UKE13	North and North East Lincolnshire	5,297	0.92	1.5
UKF30	Lincolnshire	2,861	0.04	0.8
E37000018	Humber			
UKE13	North and North East Lincolnshire	5,297	0.92	1.5
UKE12	East Riding of Yorkshire	1,209	-0.55	0.4
UKE11	Kingston upon Hull, City of	973	-0.63	0.3
E37000012	Greater Birmingham and Solihull			
UKG24	Staffordshire CC	5,148	0.87	1.5
UKG31	Birmingham	4,976	0.80	1.4
UKG12	Worcestershire	3,229	0.18	0.9
UKG32	Solihull	3,094	0.13	0.9
E37000032	Stoke-on-Trent and Staffordshire			
UKG24	Staffordshire CC	5,148	0.87	1.5
UKG23	Stoke-on-Trent	780	-0.70	0.2
E37000027	Oxfordshire			
UKJ14	Oxfordshire	5,004	0.81	1.4
E37000004	Coast to Capital			
UKJ26	East Surrey	4,715	0.71	1.4
UKJ28	West Sussex (North East)	3,481	0.27	1.0
UKJ27	West Sussex (South West)	1,522	-0.44	0.4
UKI62	Croydon	805	-0.69	0.2
UKJ21	Brighton and Hove	656	-0.75	0.2
UKJ22	East Sussex CC	653	-0.75	0.2
E37000020	Leeds City Region			
UKE45	Wakefield	4,702	0.71	1.3
UKE42	Leeds	3,962	0.44	1.1
UKE31	Barnsley, Doncaster and Rotherham	2,580	-0.06	0.7
UKE22	North Yorkshire CC	2,340	-0.14	0.7
UKE44	Calderdale and Kirklees	2,168	-0.20	0.6
UKE41	Bradford	1,787	-0.34	0.5
UKE21	York	1,288	-0.52	0.4
E37000021	Leicester and Leicestershire			
UKF22	Leicestershire CC and Rutland	4,399	0.60	1.3
UKF21	Leicester	838	-0.68	0.2
E37000002	Buckinghamshire Thames Valley			

Table 59: Value of sub-regional imports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKJ13	Buckinghamshire CC	4,185	0.52	1.2
UKD63	Cheshire West and Chester	3,475	0.26	1.0
UKD62	Cheshire East	2,871	0.05	0.8
UKD61	Warrington	1,490	-0.45	0.4
E37000030	South East			
UKH37	Essex Thames Gateway	4,143	0.50	1.2
UKJ43	Kent Thames Gateway	2,441	-0.11	0.7
UKH35	West Essex	2,039	-0.25	0.6
UKH32	Thurrock	1,701	-0.37	0.5
UKJ46	West Kent	1,619	-0.40	0.5
UKH36	Heart of Essex	1,593	-0.41	0.4
UKJ45	Mid Kent	1,539	-0.43	0.4
UKJ44	East Kent	1,289	-0.52	0.4
UKH34	Essex Haven Gateway	1,087	-0.59	0.3
UKJ22	East Sussex CC	653	-0.75	0.2
UKJ41	Medway	597	-0.77	0.2
UKH31	Southend-on-Sea	315	-0.87	0.1
E37000025	North East			
UKC23	Sunderland	4,026	0.46	1.1
UKC22	Tyneside	3,425	0.25	1.0
UKC14	Durham CC	1,652	-0.39	0.5
UKC21	Northumberland	649	-0.75	0.2
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
UKF11	Derby	3,818	0.39	1.1
UKF13	South and West Derbyshire	3,165	0.15	0.9
UKF16	South Nottinghamshire	1,646	-0.39	0.5
UKF15	North Nottinghamshire	1,570	-0.42	0.4
UKF12	East Derbyshire	1,035	-0.61	0.3
UKF14	Nottingham	1,001	-0.62	0.3
E37000037	West of England			
UKK12	Bath and North East Somerset, North Somerset and South Gloucestershire	3,698	0.34	1.1
UKK11	Bristol, City of	1,499	-0.44	0.4
E37000022	Liverpool City Region			
UKD71	East Merseyside	3,479	0.27	1.0
UKD72	Liverpool	1,655	-0.39	0.5
UKD74	Wirral	699	-0.73	0.2
UKD73	Sefton	508	-0.80	0.1
E37000015	Greater Manchester			
UKD33	Manchester	3,249	0.18	0.9
UKD34	Greater Manchester South West	2,814	0.03	0.8
UKD37	Greater Manchester North East	2,496	-0.09	0.7
UKD35	Greater Manchester South East	2,476	-0.09	0.7
UKD36	Greater Manchester North West	2,018	-0.26	0.6
E37000038	Worcestershire			
UKG12	Worcestershire	3,229	0.18	0.9
E37000040	Sheffield City Region			
UKF13	South and West Derbyshire	3,165	0.15	0.9
UKE31	Barnsley, Doncaster and Rotherham	2,580	-0.06	0.7
UKE32	Sheffield	1,849	-0.32	0.5
UKF15	North Nottinghamshire	1,570	-0.42	0.4
UKF12	East Derbyshire	1,035	-0.61	0.3
E37000024	New Anglia			
UKH14	Suffolk	3,094	0.13	0.9
UKH15	Norwich and East Norfolk	1,241	-0.54	0.4
UKH16	North and West Norfolk	668	-0.74	0.2
UKH17	Breckland and South Norfolk	558	-0.78	0.2

Table 59: Value of sub-regional imports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000019	Lancashire			
UKD45	Mid Lancashire	2,668	-0.02	0.8
UKD46	East Lancashire	1,882	-0.31	0.5
UKD41	Blackburn with Darwen	600	-0.77	0.2
UKD47	Chorley and West Lancashire	582	-0.77	0.2
UKD44	Lancaster and Wyre	384	-0.84	0.1
UKD42	Blackpool	153	-0.93	0.0
E37000039	York, North Yorkshire and East Riding			
UKE22	North Yorkshire CC	2,340	-0.14	0.7
UKE21	York	1,288	-0.52	0.4
UKE12	East Riding of Yorkshire	1,209	-0.55	0.4
E37000033	Swindon and Wiltshire			
UKK14	Swindon	2,103	-0.23	0.6
UKK15	Wiltshire	1,973	-0.27	0.6
E37000016	Heart of the South West			
UKK23	Somerset	2,070	-0.24	0.6
UKK43	Devon CC	1,383	-0.49	0.4
UKK41	Plymouth	736	-0.72	0.2
UKK42	Torbay	127	-0.94	0.0
E37000036	The Marches			
UKG21	Telford and Wrekin	2,018	-0.26	0.6
UKG22	Shropshire CC	964	-0.64	0.3
UKG11	Herefordshire, County of	914	-0.65	0.3
E37000034	Tees Valley			
UKC11	Hartlepool and Stockton-on-Tees	1,804	-0.33	0.5
UKC12	South Teesside	742	-0.72	0.2
UKC13	Darlington	410	-0.84	0.1
E37000001	Black Country			
UKG37	Sandwell	1,525	-0.43	0.4
UKG39	Wolverhampton	1,009	-0.62	0.3
UKG36	Dudley	900	-0.66	0.3
UKG38	Walsall	884	-0.66	0.2
E37000009	Dorset			
UKK21	Bournemouth and Poole	1,148	-0.57	0.3
UKK22	Dorset CC	988	-0.63	0.3
E37000007	Cumbria			
UKD12	East Cumbria	778	-0.70	0.2
UKD11	West Cumbria	664	-0.74	0.2

Source: HMRC. Regional Trade Statistics. Available at: Available at: <https://www.uktradeinfo.com/Statistics/RTS/Pages/default.aspx>

Table 60: Number of importing businesses (business counts), NUTS3 2017

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	355,204		100.0
E37000023	London			
UKI32	Westminster	8,387	3.66	2.4
UKI31	Camden and City of London	7,748	3.24	2.2
UKI33	Kensington and Chelsea and Hammersmith and Fulham	5,254	1.62	1.5
UKI43	Haringey and Islington	4,343	1.02	1.2
UKI41	Hackney and Newham	4,025	0.82	1.1
UKI75	Hounslow and Richmond upon Thames	3,637	0.56	1.0
UKI74	Harrow and Hillingdon	3,516	0.48	1.0
UKI63	Merton, Kingston upon Thames and Sutton	3,404	0.41	1.0
UKI44	Lewisham and Southwark	3,175	0.26	0.9
UKI73	Ealing	3,050	0.18	0.9
UKI42	Tower Hamlets	2,754	-0.01	0.8
UKI71	Barnet	2,674	-0.07	0.8
UKI72	Brent	2,380	-0.26	0.7
UKI53	Redbridge and Waltham Forest	2,211	-0.37	0.6
UKI34	Wandsworth	2,206	-0.37	0.6
UKI52	Barking and Dagenham and Havering	1,939	-0.54	0.6
UKI51	Bexley and Greenwich	1,876	-0.59	0.5
UKI54	Enfield	1,838	-0.61	0.5
UKI62	Croydon	1,741	-0.67	0.5
UKI45	Lambeth	1,653	-0.73	0.5
UKI61	Bromley	1,621	-0.75	0.5
E37000017	Hertfordshire			
UKH23	Hertfordshire	8,209	3.54	2.3
E37000042	Greater Cambridge and Greater Peterborough			
UKH23	Hertfordshire	8,209	3.54	2.3
UKH12	Cambridgeshire CC	5,093	1.51	1.4
UKF22	Leicestershire CC and Rutland	4,914	1.40	1.4
UKH14	Suffolk	4,593	1.19	1.3
UKF30	Lincolnshire	3,808	0.67	1.1
UKH35	West Essex	2,506	-0.17	0.7
UKH11	Peterborough	1,570	-0.78	0.4
UKH16	North and West Norfolk	1,550	-0.80	0.4
E37000035	Thames Valley Berkshire			
UKJ11	Berkshire	6,987	2.75	2.0
E37000010	Enterprise M3			
UKJ25	West Surrey	6,146	2.20	1.7
UKJ36	Central Hampshire	4,488	1.12	1.3
UKJ37	North Hampshire	2,803	0.02	0.8
E37000012	Greater Birmingham and Solihull			
UKG31	Birmingham	5,391	1.71	1.5
UKG24	Staffordshire CC	4,611	1.20	1.3
UKG12	Worcestershire	4,002	0.80	1.1
UKG32	Solihull	1,528	-0.81	0.4
E37000027	Oxfordshire			
UKJ14	Oxfordshire	5,326	1.66	1.5
E37000041	South East Midlands			
UKJ14	Oxfordshire	5,326	1.66	1.5
UKJ13	Buckinghamshire CC	4,555	1.16	1.3
UKF24	West Northamptonshire	2,969	0.13	0.8
UKJ12	Milton Keynes	2,672	-0.07	0.8
UKF25	North Northamptonshire	2,465	-0.20	0.7
UKH25	Central Bedfordshire	1,801	-0.63	0.5

Table 60: Number of importing businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKH21	Luton	1,339	-0.94	0.4
UKH24	Bedford	1,323	-0.95	0.4
E37000015	Greater Manchester			
UKD33	Manchester	5,299	1.65	1.5
UKD34	Greater Manchester South West	3,656	0.58	1.0
UKD37	Greater Manchester North East	3,035	0.17	0.8
UKD35	Greater Manchester South East	2,688	-0.06	0.8
UKD36	Greater Manchester North West	2,504	-0.18	0.7
E37000021	Leicester and Leicestershire			
UKF22	Leicestershire CC and Rutland	4,914	1.40	1.4
UKF21	Leicester	2,330	-0.29	0.7
E37000016	Heart of the South West			
UKK43	Devon CC	4,696	1.25	1.3
UKK23	Somerset	3,270	0.32	0.9
UKK41	Plymouth	1,328	-0.94	0.4
UKK42	Torbay	749	-1.32	0.2
E37000032	Stoke-on-Trent and Staffordshire			
UKG24	Staffordshire CC	4,611	1.20	1.3
UKG23	Stoke-on-Trent	1,382	-0.91	0.4
E37000024	New Anglia			
UKH14	Suffolk	4,593	1.19	1.3
UKH15	Norwich and East Norfolk	2,377	-0.26	0.7
UKH17	Breckland and South Norfolk	1,625	-0.75	0.5
UKH16	North and West Norfolk	1,550	-0.80	0.4
E37000011	Gloucestershire			
UKK13	Gloucestershire	4,582	1.18	1.3
E37000020	Leeds City Region			
UKE42	Leeds	4,577	1.18	1.3
UKE22	North Yorkshire CC	3,823	0.68	1.1
UKE44	Calderdale and Kirklees	3,491	0.47	1.0
UKE31	Barnsley, Doncaster and Rotherham	3,159	0.25	0.9
UKE41	Bradford	2,594	-0.12	0.7
UKE45	Wakefield	1,815	-0.63	0.5
UKE21	York	1,583	-0.78	0.4
E37000002	Buckinghamshire Thames Valley			
UKJ13	Buckinghamshire CC	4,555	1.16	1.3
UKD62	Cheshire East	2,879	0.07	0.8
UKD63	Cheshire West and Chester	2,343	-0.28	0.7
UKD61	Warrington	1,774	-0.65	0.5
E37000029	Solent			
UKJ36	Central Hampshire	4,488	1.12	1.3
UKJ35	South Hampshire	3,096	0.21	0.9
UKJ32	Southampton	1,477	-0.85	0.4
UKJ31	Portsmouth	1,322	-0.95	0.4
UKJ34	Isle of Wight	794	-1.29	0.2
E37000005	Cornwall and Isles of Scilly			
UKG13	Warwickshire	4,312	1.00	1.2
UKK30	Cornwall and Isles of Scilly	2,873	0.06	0.8
UKG33	Coventry	1,830	-0.62	0.5
E37000038	Worcestershire			
UKG12	Worcestershire	4,002	0.80	1.1
E37000037	West of England			
UKK12	Bath and North East Somerset, North Somerset and South Gloucestershire	3,869	0.71	1.1
UKK11	Bristol, City of	3,325	0.36	0.9

Table 60: Number of importing businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000039	York, North Yorkshire and East Riding			
UKE22	North Yorkshire CC	3,823	0.68	1.1
UKE12	East Riding of Yorkshire	1,673	-0.72	0.5
UKE21	York	1,583	-0.78	0.4
E37000014	Greater Lincolnshire			
UKF30	Lincolnshire	3,808	0.67	1.1
UKE13	North and North East Lincolnshire	1,686	-0.71	0.5
E37000025	North East			
UKC22	Tyneside	3,521	0.49	1.0
UKC14	Durham CC	1,914	-0.56	0.5
UKC21	Northumberland	1,401	-0.90	0.4
UKC23	Sunderland	1,229	-1.01	0.4
E37000004	Coast to Capital			
UKJ28	West Sussex (North East)	3,208	0.28	0.9
UKJ27	West Sussex (South West)	2,843	0.05	0.8
UKJ22	East Sussex CC	2,829	0.04	0.8
UKJ26	East Surrey	2,678	-0.06	0.8
UKJ21	Brighton and Hove	2,361	-0.27	0.7
UKI62	Croydon	1,741	-0.67	0.5
E37000040	Sheffield City Region			
UKE31	Barnsley, Doncaster and Rotherham	3,159	0.25	0.9
UKE32	Sheffield	3,071	0.19	0.9
UKF13	South and West Derbyshire	2,727	-0.03	0.8
UKF15	North Nottinghamshire	2,447	-0.21	0.7
UKF12	East Derbyshire	1,714	-0.69	0.5
E37000033	Swindon and Wiltshire			
UKK15	Wiltshire	3,149	0.24	0.9
UKK14	Swindon	1,542	-0.80	0.4
E37000030	South East			
UKJ46	West Kent	3,024	0.16	0.8
UKJ22	East Sussex CC	2,829	0.04	0.8
UKH34	Essex Haven Gateway	2,671	-0.07	0.8
UKH35	West Essex	2,506	-0.17	0.7
UKJ45	Mid Kent	2,281	-0.32	0.6
UKJ44	East Kent	2,266	-0.33	0.6
UKH36	Heart of Essex	2,242	-0.35	0.6
UKJ43	Kent Thames Gateway	2,038	-0.48	0.6
UKH37	Essex Thames Gateway	1,885	-0.58	0.5
UKJ41	Medway	1,298	-0.96	0.4
UKH32	Thurrock	1,233	-1.00	0.4
UKH31	Southend-on-Sea	963	-1.18	0.3
E37000009	Dorset			
UKK22	Dorset CC	2,793	0.01	0.8
UKK21	Bournemouth and Poole	2,309	-0.30	0.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
UKF13	South and West Derbyshire	2,727	-0.03	0.8
UKF15	North Nottinghamshire	2,447	-0.21	0.7
UKF14	Nottingham	2,144	-0.41	0.6
UKF12	East Derbyshire	1,714	-0.69	0.5
UKF16	South Nottinghamshire	1,593	-0.77	0.4
UKF11	Derby	1,525	-0.81	0.4
E37000019	Lancashire			
UKD45	Mid Lancashire	2,453	-0.21	0.7
UKD46	East Lancashire	1,816	-0.62	0.5
UKD47	Chorley and West Lancashire	1,292	-0.97	0.4
UKD44	Lancaster and Wyre	1,279	-0.97	0.4
UKD41	Blackburn with Darwen	1,076	-1.11	0.3
UKD42	Blackpool	709	-1.35	0.2
E37000022	Liverpool City Region			

Table 60: Number of importing businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKD72	Liverpool	2,085	-0.45	0.6
UKD71	East Merseyside	1,953	-0.54	0.6
UKD73	Sefton	1,240	-1.00	0.4
UKD74	Wirral	1,184	-1.04	0.3
E37000036	The Marches			
UKG22	Shropshire CC	2,076	-0.45	0.6
UKG11	Herefordshire, County of	1,607	-0.76	0.4
UKG21	Telford and Wrekin	1,343	-0.93	0.4
E37000007	Cumbria			
UKD12	East Cumbria	1,941	-0.54	0.6
UKD11	West Cumbria	998	-1.16	0.3
E37000001	Black Country			
UKG36	Dudley	1,910	-0.56	0.5
UKG37	Sandwell	1,909	-0.56	0.5
UKG39	Wolverhampton	1,456	-0.86	0.4
UKG38	Walsall	1,442	-0.87	0.4
E37000018	Humber			
UKE13	North and North East Lincolnshire	1,686	-0.71	0.5
UKE12	East Riding of Yorkshire	1,673	-0.72	0.5
UKE11	Kingston upon Hull, City of	1,485	-0.84	0.4
E37000034	Tees Valley			
UKC11	Hartlepool and Stockton-on-Tees	1,310	-0.95	0.4
UKC12	South Teesside	1,109	-1.09	0.3
UKC13	Darlington	735	-1.33	0.2

Source: HMRC. Regional Trade Statistics. Available at: Available at:
<https://www.uktradeinfo.com/Statistics/RTS/Pages/default.aspx>

Trade in goods - Exports

Table 61: Value of sub-regional exports (million £), NUTS3 2017

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	235,299		100.0
E37000023	London			
UKI32	Westminster	12,871	5.87	5.5
UKI31	Camden and City of London	3,380	0.82	1.4
UKI75	Hounslow and Richmond upon Thames	2,129	0.16	0.9
UKI33	Kensington and Chelsea and Hammersmith and Fulham	2,107	0.15	0.9
UKI74	Harrow and Hillingdon	2,106	0.15	0.9
UKI42	Tower Hamlets	1,819	-0.01	0.8
UKI72	Brent	1,386	-0.24	0.6
UKI43	Haringey and Islington	1,374	-0.24	0.6
UKI73	Ealing	1,082	-0.40	0.5
UKI63	Merton, Kingston upon Thames and Sutton	982	-0.45	0.4
UKI52	Barking and Dagenham and Havering	976	-0.45	0.4
UKI45	Lambeth	760	-0.57	0.3
UKI41	Hackney and Newham	615	-0.65	0.3
UKI54	Enfield	595	-0.66	0.2
UKI44	Lewisham and Southwark	563	-0.67	0.2
UKI51	Beale and Greenwich	558	-0.68	0.2
UKI34	Wandsworth	542	-0.69	0.2
UKI71	Barnet	456	-0.73	0.2
UKI61	Bromley	327	-0.80	0.1
UKI62	Croydon	287	-0.82	0.1
UKI53	Redbridge and Waltham Forest	264	-0.83	0.1
E37000017	Hertfordshire			
UKH23	Hertfordshire	8,439	3.51	3.6
E37000042	Greater Cambridge and Greater Peterborough			
UKH23	Hertfordshire	8,439	3.51	3.6
UKH12	Cambridgeshire CC	4,529	1.43	1.9
UKF22	Leicestershire CC and Rutland	2,918	0.58	1.2
UKH14	Suffolk	2,209	0.20	0.9
UKH35	West Essex	1,431	-0.21	0.6
UKF30	Lincolnshire	1,406	-0.23	0.6
UKH11	Peterborough	1,157	-0.36	0.5
UKH16	North and West Norfolk	539	-0.69	0.2
E37000035	Thames Valley Berkshire			
UKJ11	Berkshire	7,004	2.75	3.0
E37000005	Cornwall and Isles of Scilly			
UKG13	Warwickshire	6,443	2.45	2.7
UKG33	Coventry	4,011	1.16	1.7
UKK30	Cornwall and Isles of Scilly	661	-0.62	0.3
E37000012	Greater Birmingham and Solihull			
UKG32	Solihull	6,262	2.36	2.7
UKG31	Birmingham	4,429	1.38	1.9
UKG24	Staffordshire CC	3,974	1.14	1.7
UKG12	Worcestershire	1,684	-0.08	0.7
E37000011	Gloucestershire			
UKK13	Gloucestershire	6,175	2.31	2.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
UKF11	Derby	5,564	1.99	2.4
UKF13	South and West Derbyshire	3,504	0.89	1.5

Table 61: Value of sub-regional exports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKF15	North Nottinghamshire	1,149	-0.36	0.5
UKF12	East Derbyshire	865	-0.51	0.4
UKF14	Nottingham	718	-0.59	0.3
UKF16	South Nottinghamshire	497	-0.71	0.2
E37000010	Enterprise M3			
UKJ37	North Hampshire	5,368	1.88	2.3
UKJ25	West Surrey	4,858	1.61	2.1
UKJ36	Central Hampshire	4,337	1.33	1.8
E37000025	North East			
UKC23	Sunderland	4,855	1.61	2.1
UKC22	Tyneside	2,261	0.23	1.0
UKC14	Durham CC	1,677	-0.08	0.7
UKC21	Northumberland	746	-0.58	0.3
E37000037	West of England			
UKK12	Bath and North East Somerset, North Somerset and South Gloucestershire	4,667	1.51	2.0
UKK11	Bristol, City of	689	-0.61	0.3
E37000022	Liverpool City Region			
UKD71	East Merseyside	4,649	1.50	2.0
UKD72	Liverpool	989	-0.45	0.4
UKD74	Wirral	277	-0.83	0.1
UKD73	Sefton	189	-0.87	0.1
E37000029	Solent			
UKJ36	Central Hampshire	4,337	1.33	1.8
UKJ35	South Hampshire	2,655	0.44	1.1
UKJ31	Portsmouth	1,217	-0.33	0.5
UKJ32	Southampton	286	-0.82	0.1
UKJ34	Isle of Wight	278	-0.83	0.1
E37000002	Buckinghamshire Thames Valley			
UKD62	Cheshire East	3,998	1.15	1.7
UKD63	Cheshire West and Chester	2,721	0.47	1.2
UKJ13	Buckinghamshire CC	1,971	0.07	0.8
UKD61	Warrington	942	-0.47	0.4
E37000032	Stoke-on-Trent and Staffordshire			
UKG24	Staffordshire CC	3,974	1.14	1.7
UKG23	Stoke-on-Trent	492	-0.71	0.2
E37000014	Greater Lincolnshire			
UKE13	North and North East Lincolnshire	3,607	0.94	1.5
UKF30	Lincolnshire	1,406	-0.23	0.6
E37000018	Humber			
UKE13	North and North East Lincolnshire	3,607	0.94	1.5
UKE12	East Riding of Yorkshire	1,009	-0.44	0.4
UKE11	Kingston upon Hull, City of	794	-0.55	0.3
E37000040	Sheffield City Region			
UKF13	South and West Derbyshire	3,504	0.89	1.5
UKE31	Barnsley, Doncaster and Rotherham	1,790	-0.02	0.8
UKE32	Sheffield	1,625	-0.11	0.7
UKF15	North Nottinghamshire	1,149	-0.36	0.5
UKF12	East Derbyshire	865	-0.51	0.4
E37000027	Oxfordshire			
UKJ14	Oxfordshire	3,055	0.65	1.3
E37000041	South East Midlands			
UKJ14	Oxfordshire	3,055	0.65	1.3
UKJ13	Buckinghamshire CC	1,971	0.07	0.8
UKH21	Luton	1,832	0.00	0.8
UKF25	North Northamptonshire	1,651	-0.10	0.7
UKF24	West Northamptonshire	1,277	-0.29	0.5
UKH25	Central Bedfordshire	1,210	-0.33	0.5
UKJ12	Milton Keynes	1,068	-0.41	0.4

Table 61: Value of sub-regional exports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKH24	Bedford	322	-0.80	0.1
E37000021	Leicester and Leicestershire			
UKF22	Leicestershire CC and Rutland	2,918	0.58	1.2
UKF21	Leicester	499	-0.71	0.2
E37000004	Coast to Capital			
UKJ26	East Surrey	2,632	0.43	1.1
UKJ28	West Sussex (North East)	2,558	0.39	1.1
UKJ27	West Sussex (South West)	1,262	-0.30	0.5
UKJ22	East Sussex CC	815	-0.54	0.4
UKI62	Croydon	287	-0.82	0.1
UKJ21	Brighton and Hove	272	-0.83	0.1
E37000019	Lancashire			
UKD45	Mid Lancashire	2,459	0.33	1.1
UKD46	East Lancashire	1,810	-0.01	0.8
UKD44	Lancaster and Wyre	528	-0.69	0.2
UKD47	Chorley and West Lancashire	472	-0.72	0.2
UKD41	Blackburn with Darwen	455	-0.73	0.2
UKD42	Blackpool	76	-0.93	0.0
E37000024	New Anglia			
UKH14	Suffolk	2,209	0.20	0.9
UKH15	Norwich and East Norfolk	793	-0.55	0.3
UKH16	North and West Norfolk	539	-0.69	0.2
UKH17	Breckland and South Norfolk	383	-0.77	0.2
E37000034	Tees Valley			
UKC11	Hartlepool and Stockton-on-Tees	2,085	0.14	0.9
UKC12	South Teesside	654	-0.63	0.3
UKC13	Darlington	423	-0.75	0.2
E37000030	South East			
UKH37	Essex Thames Gateway	1,950	0.06	0.8
UKH35	West Essex	1,431	-0.21	0.6
UKJ44	East Kent	1,077	-0.40	0.5
UKJ45	Mid Kent	979	-0.45	0.4
UKJ22	East Sussex CC	815	-0.54	0.4
UKH36	Heart of Essex	746	-0.58	0.3
UKH34	Essex Haven Gateway	711	-0.60	0.3
UKJ43	Kent Thames Gateway	613	-0.65	0.3
UKJ46	West Kent	511	-0.70	0.2
UKJ41	Medway	463	-0.73	0.2
UKH32	Thurrock	444	-0.74	0.2
UKH31	Southend-on-Sea	269	-0.83	0.1
E37000020	Leeds City Region			
UKE42	Leeds	1,812	-0.01	0.8
UKE31	Barnsley, Doncaster and Rotherham	1,790	-0.02	0.8
UKE44	Calderdale and Kirklees	1,777	-0.03	0.8
UKE41	Bradford	1,235	-0.32	0.5
UKE45	Wakefield	1,135	-0.37	0.5
UKE22	North Yorkshire CC	1,002	-0.44	0.4
UKE21	York	641	-0.63	0.3
E37000038	Worcestershire			
UKG12	Worcestershire	1,684	-0.08	0.7
E37000015	Greater Manchester			
UKD34	Greater Manchester South West	1,669	-0.09	0.7
UKD37	Greater Manchester North East	1,469	-0.19	0.6
UKD35	Greater Manchester South East	1,373	-0.24	0.6
UKD33	Manchester	1,281	-0.29	0.5
UKD36	Greater Manchester North West	869	-0.51	0.4

Table 61: Value of sub-regional exports (million £), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000016	Heart of the South West			
UKK23	Somerset	1,617	-0.11	0.7
UKK43	Devon CC	1,275	-0.30	0.5
UKK41	Plymouth	602	-0.65	0.3
UKK42	Torbay	97	-0.92	0.0
E37000036	The Marches			
UKG21	Telford and Wrekin	1,337	-0.26	0.6
UKG22	Shropshire CC	697	-0.60	0.3
UKG11	Herefordshire, County of	482	-0.72	0.2
E37000007	Cumbria			
UKD11	West Cumbria	1,333	-0.26	0.6
UKD12	East Cumbria	632	-0.64	0.3
E37000033	Swindon and Wiltshire			
UKK15	Wiltshire	1,177	-0.35	0.5
UKK14	Swindon	722	-0.59	0.3
E37000001	Black Country			
UKG39	Wolverhampton	1,017	-0.43	0.4
UKG37	Sandwell	839	-0.53	0.4
UKG38	Walsall	675	-0.61	0.3
UKG36	Dudley	558	-0.68	0.2
E37000039	York, North Yorkshire and East Riding			
UKE12	East Riding of Yorkshire	1,009	-0.44	0.4
UKE22	North Yorkshire CC	1,002	-0.44	0.4
UKE21	York	641	-0.63	0.3
E37000009	Dorset			
UKK22	Dorset CC	1,002	-0.44	0.4
UKK21	Bournemouth and Poole	926	-0.48	0.4

Source: HMRC. Regional Trade Statistics. Available at: <https://www.uktradeinfo.com/Statistics/RTS/Pages/default.aspx>

Table 62: Number of exporting businesses (business counts), NUTS3 2017

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	263,287		100.0
E37000017	Hertfordshire			
UKH23	Hertfordshire	6,222	3.63	2.4
E37000042	Greater Cambridge and Greater Peterborough			
UKH23	Hertfordshire	6,222	3.63	2.4
UKH12	Cambridgeshire CC	3,960	1.65	1.5
UKF22	Leicestershire CC and Rutland	3,898	1.60	1.5
UKH14	Suffolk	3,478	1.23	1.3
UKF30	Lincolnshire	2,801	0.64	1.1
UKH35	West Essex	1,891	-0.16	0.7
UKH11	Peterborough	1,163	-0.79	0.4
UKH16	North and West Norfolk	1,101	-0.85	0.4
E37000023	London			
UKI32	Westminster	5,991	3.43	2.3
UKI31	Camden and City of London	5,303	2.83	2.0
UKI33	Kensington and Chelsea and Hammersmith and Fulham	3,773	1.49	1.4
UKI43	Haringey and Islington	2,986	0.80	1.1
UKI75	Hounslow and Richmond upon Thames	2,598	0.46	1.0
UKI41	Hackney and Newham	2,588	0.45	1.0
UKI74	Harrow and Hillingdon	2,443	0.33	0.9
UKI63	Merton, Kingston upon Thames and Sutton	2,432	0.32	0.9
UKI44	Lewisham and Southwark	2,162	0.08	0.8
UKI42	Tower Hamlets	1,968	-0.09	0.8
UKI73	Ealing	1,953	-0.10	0.7
UKI71	Barnet	1,748	-0.28	0.7
UKI72	Brent	1,556	-0.45	0.6
UKI34	Wandsworth	1,548	-0.46	0.6
UKI51	Bexley and Greenwich	1,276	-0.69	0.5
UKI52	Barking and Dagenham and Havering	1,268	-0.70	0.5
UKI62	Croydon	1,243	-0.72	0.5
UKI53	Redbridge and Waltham Forest	1,239	-0.73	0.5
UKI54	Enfield	1,212	-0.75	0.5
UKI45	Lambeth	1,138	-0.81	0.4
UKI61	Bromley	1,109	-0.84	0.4
E37000035	Thames Valley Berkshire			
UKJ11	Berkshire	5,385	2.90	2.0
E37000010	Enterprise M3			
UKJ25	West Surrey	4,497	2.12	1.7
UKJ36	Central Hampshire	3,419	1.18	1.3
UKJ37	North Hampshire	2,258	0.17	0.9
E37000027	Oxfordshire			
UKJ14	Oxfordshire	4,161	1.83	1.6
E37000041	South East Midlands			
UKJ14	Oxfordshire	4,161	1.83	1.6
UKJ13	Buckinghamshire CC	3,564	1.31	1.4
UKF24	West Northamptonshire	2,373	0.27	0.9
UKJ12	Milton Keynes	2,066	0.00	0.8
UKF25	North Northamptonshire	1,950	-0.10	0.7
UKH25	Central Bedfordshire	1,452	-0.54	0.6
UKH24	Bedford	1,021	-0.92	0.4
UKH21	Luton	990	-0.94	0.4
E37000021	Leicester and Leicestershire			
UKF22	Leicestershire CC and Rutland	3,898	1.60	1.5
UKF21	Leicester	1,682	-0.34	0.6

Table 62: Number of exporting businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000012	Greater Birmingham and Solihull			
UKG31	Birmingham	3,844	1.55	1.5
UKG24	Staffordshire CC	3,724	1.45	1.4
UKG12	Worcestershire	3,198	0.99	1.2
UKG32	Solihull	1,098	-0.85	0.4
E37000032	Stoke-on-Trent and Staffordshire			
UKG24	Staffordshire CC	3,724	1.45	1.4
UKG23	Stoke-on-Trent	1,188	-0.77	0.4
E37000011	Gloucestershire			
UKK13	Gloucestershire	3,584	1.32	1.4
E37000002	Buckinghamshire Thames Valley			
UKJ13	Buckinghamshire CC	3,564	1.31	1.4
UKD62	Cheshire East	2,266	0.17	0.9
UKD63	Cheshire West and Chester	1,779	-0.25	0.7
UKD61	Warrington	1,377	-0.60	0.5
E37000020	Leeds City Region			
UKE42	Leeds	3,549	1.29	1.4
UKE22	North Yorkshire CC	2,780	0.62	1.1
UKE44	Calderdale and Kirklees	2,746	0.59	1.0
UKE31	Barnsley, Doncaster and Rotherham	2,482	0.36	0.9
UKE41	Bradford	1,945	-0.11	0.7
UKE45	Wakefield	1,415	-0.57	0.5
UKE21	York	1,133	-0.82	0.4
E37000024	New Anglia			
UKH14	Suffolk	3,478	1.23	1.3
UKH15	Norwich and East Norfolk	1,723	-0.30	0.6
UKH17	Breckland and South Norfolk	1,236	-0.73	0.5
UKH16	North and West Norfolk	1,101	-0.85	0.4
E37000029	Solent			
UKJ36	Central Hampshire	3,419	1.18	1.3
UKJ35	South Hampshire	2,108	0.03	0.8
UKJ32	Southampton	1,153	-0.80	0.4
UKJ31	Portsmouth	1,028	-0.91	0.4
UKJ34	Isle of Wight	615	-1.27	0.2
E37000005	Cornwall and Isles of Scilly			
UKG13	Warwickshire	3,407	1.17	1.3
UKK30	Cornwall and Isles of Scilly	1,897	-0.15	0.7
UKG33	Coventry	1,408	-0.58	0.5
E37000016	Heart of the South West			
UKK43	Devon CC	3,240	1.02	1.2
UKK23	Somerset	2,350	0.25	0.9
UKK41	Plymouth	971	-0.96	0.4
UKK42	Torbay	516	-1.36	0.2
E37000038	Worcestershire			
UKG12	Worcestershire	3,198	0.99	1.2
E37000037	West of England			
UKK12	Bath and North East Somerset, North Somerset and South Gloucestershire	2,842	0.68	1.1
UKK11	Bristol, City of	2,481	0.36	0.9
E37000015	Greater Manchester			
UKD33	Manchester	2,833	0.67	1.1
UKD34	Greater Manchester South West	2,711	0.56	1.0
UKD37	Greater Manchester North East	2,332	0.23	0.9
UKD35	Greater Manchester South East	2,200	0.11	0.8
UKD36	Greater Manchester North West	1,928	-0.12	0.7

Table 62: Number of exporting businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E37000014	Greater Lincolnshire			
UKF30	Lincolnshire	2,801	0.64	1.1
UKE13	North and North East Lincolnshire	1,279	-0.69	0.5
E37000039	York, North Yorkshire and East Riding			
UKE22	North Yorkshire CC	2,780	0.62	1.1
UKE12	East Riding of Yorkshire	1,283	-0.69	0.5
UKE21	York	1,133	-0.82	0.4
E37000025	North East			
UKC22	Tyneside	2,643	0.50	1.0
UKC14	Durham CC	1,499	-0.50	0.6
UKC21	Northumberland	1,057	-0.88	0.4
UKC23	Sunderland	939	-0.99	0.4
E37000040	Sheffield City Region			
UKE31	Barnsley, Doncaster and Rotherham	2,482	0.36	0.9
UKE32	Sheffield	2,457	0.34	0.9
UKF13	South and West Derbyshire	2,246	0.15	0.8
UKF15	North Nottinghamshire	1,829	-0.21	0.7
UKF12	East Derbyshire	1,399	-0.59	0.5
E37000004	Coast to Capital			
UKJ28	West Sussex (North East)	2,479	0.36	0.9
UKJ22	East Sussex CC	2,171	0.09	0.8
UKJ27	West Sussex (South West)	2,061	-0.01	0.8
UKJ26	East Surrey	1,976	-0.08	0.8
UKJ21	Brighton and Hove	1,649	-0.37	0.6
UKI62	Croydon	1,243	-0.72	0.5
E37000033	Swindon and Wiltshire			
UKK15	Wiltshire	2,426	0.31	0.9
UKK14	Swindon	1,218	-0.74	0.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
UKF13	South and West Derbyshire	2,246	0.15	0.8
UKF15	North Nottinghamshire	1,829	-0.21	0.7
UKF14	Nottingham	1,595	-0.41	0.6
UKF12	East Derbyshire	1,399	-0.59	0.5
UKF16	South Nottinghamshire	1,241	-0.72	0.5
UKF11	Derby	1,105	-0.84	0.4
E37000030	South East			
UKJ22	East Sussex CC	2,171	0.09	0.8
UKJ46	West Kent	2,148	0.07	0.8
UKH34	Essex Haven Gateway	2,012	-0.05	0.8
UKH35	West Essex	1,891	-0.16	0.7
UKJ44	East Kent	1,659	-0.36	0.6
UKJ45	Mid Kent	1,634	-0.38	0.6
UKH36	Heart of Essex	1,615	-0.40	0.6
UKJ43	Kent Thames Gateway	1,535	-0.47	0.6
UKH37	Essex Thames Gateway	1,461	-0.53	0.6
UKH32	Thurrock	976	-0.96	0.4
UKJ41	Medway	946	-0.98	0.4
UKH31	Southend-on-Sea	704	-1.19	0.3
E37000009	Dorset			
UKK22	Dorset CC	2,090	0.02	0.8
UKK21	Bournemouth and Poole	1,669	-0.35	0.6
E37000019	Lancashire			
UKD45	Mid Lancashire	1,802	-0.23	0.7
UKD46	East Lancashire	1,497	-0.50	0.6
UKD47	Chorley and West Lancashire	976	-0.96	0.4
UKD44	Lancaster and Wyre	892	-1.03	0.3
UKD41	Blackburn with Darwen	824	-1.09	0.3
UKD42	Blackpool	514	-1.36	0.2
E37000022	Liverpool City Region			

Table 62: Number of exporting businesses (business counts), NUTS3 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
UKD71	East Merseyside	1,601	-0.41	0.6
UKD72	Liverpool	1,447	-0.54	0.6
UKD74	Wirral	951	-0.98	0.4
UKD73	Sefton	876	-1.04	0.3
E37000036	The Marches			
UKG22	Shropshire CC	1,598	-0.41	0.6
UKG11	Herefordshire, County of	1,193	-0.77	0.4
UKG21	Telford and Wrekin	1,120	-0.83	0.4
E37000001	Black Country			
UKG37	Sandwell	1,593	-0.42	0.6
UKG36	Dudley	1,569	-0.44	0.6
UKG38	Walsall	1,199	-0.76	0.5
UKG39	Wolverhampton	1,137	-0.81	0.4
E37000007	Cumbria			
UKD12	East Cumbria	1,309	-0.66	0.5
UKD11	West Cumbria	673	-1.22	0.3
E37000018	Humber			
UKE12	East Riding of Yorkshire	1,283	-0.69	0.5
UKE13	North and North East Lincolnshire	1,279	-0.69	0.5
UKE11	Kingston upon Hull, City of	1,158	-0.80	0.4
E37000034	Tees Valley			
UKC11	Hartlepool and Stockton-on-Tees	1,011	-0.92	0.4
UKC12	South Teesside	832	-1.08	0.3
UKC13	Darlington	561	-1.32	0.2

Source: HMRC. Regional Trade Statistics. Available at: [Available at: https://www.uktradeinfo.com/Statistics/RTS/Pages/default.aspx](https://www.uktradeinfo.com/Statistics/RTS/Pages/default.aspx)

Trade in services - Exports

ONS experimental estimated values of International exports of services for NUTS3 geographies. More details about the methodologies used to compute these estimates can be found in the following link: <https://www.ons.gov.uk/businessindustryandtrade/internationaltrade/articles/estimatingthevalueofserviceexportsabroadfromdifferentpartsoftheuk/2011to2014>

Table 63: Regionalised estimates of Great Britain service exports (million £), NUTS3 2016

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	221,146		100.0
E37000023	London			
UKI31	Camden and City of London	34,859	8.65	15.8
UKI32	Westminster	25,459	6.20	11.5
UKI42	Tower Hamlets	11,999	2.70	5.4
UKI75	Hounslow and Richmond upon Thames	10,648	2.35	4.8
UKI33	Kensington and Chelsea and Hammersmith and Fulham	7,026	1.40	3.2
UKI43	Haringey and Islington	6,662	1.31	3.0
UKI44	Lewisham and Southwark	4,037	0.62	1.8
UKI74	Harrow and Hillingdon	3,938	0.60	1.8
UKI45	Lambeth	2,425	0.21	1.1
UKI41	Hackney and Newham	1,843	0.05	0.8
UKI63	Merton, Kingston upon Thames and Sutton	1,518	-0.03	0.7
UKI73	Ealing	1,370	-0.07	0.6
UKI72	Brent	1,007	-0.16	0.5
UKI34	Wandsworth	851	-0.20	0.4
UKI52	Barking and Dagenham and Havering	814	-0.21	0.4
UKI61	Bromley	540	-0.29	0.2
UKI51	Bexley and Greenwich	530	-0.29	0.2
UKI71	Barnet	510	-0.29	0.2
UKI53	Redbridge and Waltham Forest	498	-0.30	0.2
UKI62	Croydon	393	-0.32	0.2
UKI54	Enfield	379	-0.33	0.2
E37000035	Thames Valley Berkshire			
UKJ11	Berkshire	7,717	1.58	3.5
E37000015	Greater Manchester			
UKD33	Manchester	4,616	0.78	2.1
UKD34	Greater Manchester South West	1,617	-0.01	0.7
UKD35	Greater Manchester South East	572	-0.28	0.3
UKD36	Greater Manchester North West	385	-0.33	0.2
UKD37	Greater Manchester North East	297	-0.35	0.1
E37000010	Enterprise M3			
UKJ25	West Surrey	4,408	0.72	2.0
UKJ37	North Hampshire	4,153	0.65	1.9
UKJ36	Central Hampshire	1,402	-0.06	0.6
E37000004	Coast to Capital			
UKJ28	West Sussex (North East)	3,819	0.57	1.7
UKJ26	East Surrey	2,285	0.17	1.0
UKJ21	Brighton and Hove	1,507	-0.03	0.7
UKJ27	West Sussex (South West)	592	-0.27	0.3
UKJ22	East Sussex CC	424	-0.32	0.2
UKI62	Croydon	393	-0.32	0.2
E37000017	Hertfordshire			
UKH23	Hertfordshire	2,929	0.34	1.3
E37000042	Greater Cambridge and Greater Peterborough			

Table 63: Regionalised estimates of Great Britain service exports (million £), NUTS3 2016 (*continued*)

geo code	geo name	value	Zscore	%parent
UKH23	Hertfordshire	2,929	0.34	1.3
UKH12	Cambridgeshire CC	2,855	0.32	1.3
UKH14	Suffolk	1,234	-0.10	0.6
UKF22	Leicestershire CC and Rutland	931	-0.18	0.4
UKH35	West Essex	817	-0.21	0.4
UKH11	Peterborough	673	-0.25	0.3
UKF30	Lincolnshire	609	-0.27	0.3
UKH16	North and West Norfolk	235	-0.36	0.1
E37000020	Leeds City Region			
UKE42	Leeds	2,783	0.30	1.3
UKE44	Calderdale and Kirklees	817	-0.21	0.4
UKE22	North Yorkshire CC	658	-0.25	0.3
UKE41	Bradford	602	-0.27	0.3
UKE31	Barnsley, Doncaster and Rotherham	407	-0.32	0.2
UKE21	York	391	-0.32	0.2
UKE45	Wakefield	168	-0.38	0.1
E37000012	Greater Birmingham and Solihull			
UKG31	Birmingham	2,769	0.29	1.2
UKG32	Solihull	932	-0.18	0.4
UKG24	Staffordshire CC	651	-0.26	0.3
UKG12	Worcestershire	561	-0.28	0.2
E37000027	Oxfordshire			
UKJ14	Oxfordshire	2,618	0.26	1.2
E37000041	South East Midlands			
UKJ14	Oxfordshire	2,618	0.26	1.2
UKJ13	Buckinghamshire CC	1,695	0.02	0.8
UKJ12	Milton Keynes	1,086	-0.14	0.5
UKF24	West Northamptonshire	1,000	-0.17	0.4
UKH21	Luton	975	-0.17	0.4
UKF25	North Northamptonshire	357	-0.33	0.2
UKH24	Bedford	255	-0.36	0.1
UKH25	Central Bedfordshire	183	-0.38	0.1
E37000011	Gloucestershire			
UKK13	Gloucestershire	2,608	0.25	1.2
E37000022	Liverpool City Region			
UKD72	Liverpool	2,013	0.10	0.9
UKD71	East Merseyside	486	-0.30	0.2
E37000037	West of England			
UKK11	Bristol, City of	1,805	0.04	0.8
UKK12	Bath and North East Somerset, North Somerset and South Gloucestershire	1,419	-0.06	0.6
E37000025	North East			
UKC22	Tyneside	1,789	0.04	0.8
UKC23	Sunderland	613	-0.27	0.3
UKC21	Northumberland	393	-0.32	0.2
UKC14	Durham CC	274	-0.35	0.1
E37000002	Buckinghamshire Thames Valley			
UKJ13	Buckinghamshire CC	1,695	0.02	0.8
UKD63	Cheshire West and Chester	1,178	-0.12	0.5
UKD62	Cheshire East	1,126	-0.13	0.5
UKD61	Warrington	306	-0.35	0.1
E37000029	Solent			
UKJ32	Southampton	1,679	0.01	0.8
UKJ36	Central Hampshire	1,402	-0.06	0.6
UKJ35	South Hampshire	1,295	-0.09	0.6
UKJ31	Portsmouth	667	-0.25	0.3
UKJ34	Isle of Wight	279	-0.35	0.1
E37000005	Cornwall and Isles of Scilly			
UKG13	Warwickshire	1,422	-0.06	0.6
UKG33	Coventry	664	-0.25	0.3

Table 63: Regionalised estimates of Great Britain service exports (million £), NUTS3 2016 (*continued*)

geo code	geo name	value	Zscore	%parent
UKK30	Cornwall and Isles of Scilly	468	-0.30	0.2
E37000024	New Anglia			
UKH14	Suffolk	1,234	-0.10	0.6
UKH15	Norwich and East Norfolk	776	-0.22	0.4
UKH16	North and West Norfolk	235	-0.36	0.1
UKH17	Breckland and South Norfolk	156	-0.39	0.1
E37000030	South East			
UKJ46	West Kent	1,173	-0.12	0.5
UKJ44	East Kent	1,100	-0.14	0.5
UKH36	Heart of Essex	843	-0.21	0.4
UKH35	West Essex	817	-0.21	0.4
UKH37	Essex Thames Gateway	758	-0.23	0.3
UKH34	Essex Haven Gateway	687	-0.25	0.3
UKJ22	East Sussex CC	424	-0.32	0.2
UKJ45	Mid Kent	315	-0.34	0.1
UKH32	Thurrock	228	-0.37	0.1
UKH31	Southend-on-Sea	100	-0.40	0.0
E37000033	Swindon and Wiltshire			
UKK14	Swindon	1,062	-0.15	0.5
UKK15	Wiltshire	714	-0.24	0.3
E37000009	Dorset			
UKK21	Bournemouth and Poole	1,018	-0.16	0.5
UKK22	Dorset CC	311	-0.34	0.1
E37000040	Sheffield City Region			
UKE32	Sheffield	949	-0.18	0.4
UKF13	South and West Derbyshire	496	-0.30	0.2
UKE31	Barnsley, Doncaster and Rotherham	407	-0.32	0.2
UKF15	North Nottinghamshire	315	-0.34	0.1
UKF12	East Derbyshire	243	-0.36	0.1
E37000021	Leicester and Leicestershire			
UKF22	Leicestershire CC and Rutland	931	-0.18	0.4
UKF21	Leicester	502	-0.30	0.2
E37000016	Heart of the South West			
UKK43	Devon CC	899	-0.19	0.4
UKK23	Somerset	713	-0.24	0.3
UKK41	Plymouth	218	-0.37	0.1
UKK42	Torbay	112	-0.40	0.0
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire			
UKF14	Nottingham	717	-0.24	0.3
UKF11	Derby	529	-0.29	0.2
UKF13	South and West Derbyshire	496	-0.30	0.2
UKF15	North Nottinghamshire	315	-0.34	0.1
UKF16	South Nottinghamshire	256	-0.36	0.1
UKF12	East Derbyshire	243	-0.36	0.1
E37000039	York, North Yorkshire and East Riding			
UKE22	North Yorkshire CC	658	-0.25	0.3
UKE12	East Riding of Yorkshire	513	-0.29	0.2
UKE21	York	391	-0.32	0.2
E37000032	Stoke-on-Trent and Staffordshire			
UKG24	Staffordshire CC	651	-0.26	0.3
UKG23	Stoke-on-Trent	233	-0.37	0.1
E37000014	Greater Lincolnshire			
UKF30	Lincolnshire	609	-0.27	0.3
UKE13	North and North East Lincolnshire	274	-0.35	0.1
E37000038	Worcestershire			
UKG12	Worcestershire	561	-0.28	0.2
E37000018	Humber			

Table 63: Regionalised estimates of Great Britain service exports (million £), NUTS3 2016 (*continued*)

geo code	geo name	value	Zscore	%parent
UKE12	East Riding of Yorkshire	513	-0.29	0.2
UKE13	North and North East Lincolnshire	274	-0.35	0.1
UKE11	Kingston upon Hull, City of	218	-0.37	0.1
E37000036	The Marches			
UKG21	Telford and Wrekin	477	-0.30	0.2
UKG22	Shropshire CC	151	-0.39	0.1
UKG11	Herefordshire, County of	109	-0.40	0.0
E37000034	Tees Valley			
UKC11	Hartlepool and Stockton-on-Tees	457	-0.31	0.2
UKC12	South Teesside	412	-0.32	0.2
UKC13	Darlington	290	-0.35	0.1
E37000001	Black Country			
UKG39	Wolverhampton	409	-0.32	0.2
UKG38	Walsall	341	-0.34	0.2
UKG37	Sandwell	247	-0.36	0.1
UKG36	Dudley	201	-0.37	0.1
E37000007	Cumbria			
UKD11	West Cumbria	338	-0.34	0.2
UKD12	East Cumbria	326	-0.34	0.2
E37000019	Lancashire			
UKD41	Blackburn with Darwen	97	-0.40	0.0
UKD42	Blackpool	88	-0.40	0.0

Source: ONS Regionalised estimates of Great Britain service exports by NUTS3, NUTS2 and joint authority. Available at: <https://www.ons.gov.uk>

Economic specialism

Location quotients (LQs) are used as one of the measures for economic specialisation of the productive sector in different geographies. LQs have been used in the past by the ONS and the ERC in the Witty review and the previous UK Industrial Strategy, using data of employment and number of companies, in order to work out areas of industrial and jobs concentration throughout the UK.

The LQ metric is sometimes referred to as a “concentration/specialisation” measure, while in other occasions the LQ is referred to as a “position over or under, relative to a baseline”. These two explanations are compatible and come from the fact that the LQ formula can be written in different ways, as follows:

$$LQ = \frac{\frac{region_{sector}}{region_{all}}}{\frac{country_{sector}}{country_{all}}} = \frac{\frac{region_{sector}}{country_{sector}}}{\frac{region_{all}}{country_{all}}}$$

From the ERC’s own paper Localisation of Industrial Activity across England’s LEPs (which underpinned the LQs used in the Witty review): “Location Quotients are used to provide a broad illustration of the extent to which a particular activity is over- or under-represented [in a particular region] relative to the national average.” [...] “If the LQ for an activity is less than 1, the [region] has a smaller share of [activity] than the GB average; if the LQ for an activity is greater than 1, the [region] has a larger share of [activity] than the GB average.”²

At the same time, other definitions emphasise the “agglomeration” aspect. From NESTA’s Creative Clusters and Innovation report: “Location quotients are a standard metric of agglomeration in economic geography that measure a given area’s degree of specialisation in a sector, compared with the national average. A location quotient larger than 1 indicates that a particular sector is more important to the local economy than it is to the British economy.”³

Below are top 5 sectors with the highest LQ measure at lep-level LEPs (with respect to England). Additional data are also available for lower-level SIC breakdowns in the underlying datasets. These are used in other areas of the Outlook (LEP Profiles and Outlook report).

Table 64: Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017)

geo code	geo name	value sector	value	total lep	lq
E37000007	Cumbria	1 : Agriculture, forestry and fishing (A)	4,960	28,265	4.60
E37000007	Cumbria	15 : Public administration and defence (O)	390	28,265	1.96
E37000007	Cumbria	2 : Mining, quarrying and utilities (B,D and E)	255	28,265	1.58
E37000007	Cumbria	9 : Accommodation and food services (I)	2,450	28,265	1.45
E37000007	Cumbria	11 : Financial and insurance (K)	745	28,265	1.10
E37000036	The Marches	1 : Agriculture, forestry and fishing (A)	6,150	35,505	4.54
E37000036	The Marches	15 : Public administration and defence (O)	405	35,505	1.62
E37000036	The Marches	3 : Manufacturing (C)	2,005	35,505	1.21
E37000036	The Marches	5 : Motor trades (Part G)	1,135	35,505	1.18
E37000036	The Marches	2 : Mining, quarrying and utilities (B,D and E)	220	35,505	1.09
E37000005	Cornwall and Isles of Scilly	1 : Agriculture, forestry and fishing (A)	4,395	28,370	4.06
E37000005	Cornwall and Isles of Scilly	2 : Mining, quarrying and utilities (B,D and E)	310	28,370	1.92
E37000005	Cornwall and Isles of Scilly	15 : Public administration and defence (O)	340	28,370	1.70
E37000005	Cornwall and Isles of Scilly	9 : Accommodation and food services (I)	2,800	28,370	1.66
E37000005	Cornwall and Isles of Scilly	7 : Retail (Part G)	3,080	28,370	1.17
E37000016	Heart of the South West	1 : Agriculture, forestry and fishing (A)	12,230	84,375	3.80
E37000016	Heart of the South West	15 : Public administration and defence (O)	890	84,375	1.50
E37000016	Heart of the South West	2 : Mining, quarrying and utilities (B,D and E)	660	84,375	1.37
E37000016	Heart of the South West	5 : Motor trades (Part G)	2,865	84,375	1.26
E37000016	Heart of the South West	9 : Accommodation and food services (I)	6,055	84,375	1.20
E37000039	York, North Yorkshire and East Riding	1 : Agriculture, forestry and fishing (A)	8,865	62,285	3.73
E37000039	York, North Yorkshire and East Riding	15 : Public administration and defence (O)	705	62,285	1.61
E37000039	York, North Yorkshire and East Riding	2 : Mining, quarrying and utilities (B,D and E)	445	62,285	1.25
E37000039	York, North Yorkshire and East Riding	9 : Accommodation and food services (I)	4,575	62,285	1.23
E37000039	York, North Yorkshire and East Riding	3 : Manufacturing (C)	2,990	62,285	1.03

²This paper is available at: <https://www.enterpriseresearch.ac.uk/>

³This definition is very close to the phrasing used in previous ONS papers and NESTA reports, available at: <https://www.nesta.org.uk>

Table 64: Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017) (continued)

geo code	geo name	value sector	value	total lep	lq
E37000033	Swindon and Wiltshire	16 : Education (P)	2,550	38,080	2.70
E37000033	Swindon and Wiltshire	1 : Agriculture, forestry and fishing (A)	2,355	38,080	1.62
E37000033	Swindon and Wiltshire	15 : Public administration and defence (O)	315	38,080	1.17
E37000033	Swindon and Wiltshire	14 : Business administration and support services (N)	3,675	38,080	1.08
E37000033	Swindon and Wiltshire	5 : Motor trades (Part G)	1,095	38,080	1.06
E37000014	Greater Lincolnshire	1 : Agriculture, forestry and fishing (A)	4,530	45,635	2.60
E37000014	Greater Lincolnshire	8 : Transport and storage (inc postal) (H)	3,455	45,635	1.83
E37000014	Greater Lincolnshire	15 : Public administration and defence (O)	565	45,635	1.76
E37000014	Greater Lincolnshire	5 : Motor trades (Part G)	1,785	45,635	1.45
E37000014	Greater Lincolnshire	2 : Mining, quarrying and utilities (B,D and E)	360	45,635	1.38
E37000038	Worcestershire	8 : Transport and storage (inc postal) (H)	2,865	30,825	2.24
E37000038	Worcestershire	1 : Agriculture, forestry and fishing (A)	1,885	30,825	1.60
E37000038	Worcestershire	5 : Motor trades (Part G)	1,055	30,825	1.27
E37000038	Worcestershire	3 : Manufacturing (C)	1,810	30,825	1.26
E37000038	Worcestershire	15 : Public administration and defence (O)	255	30,825	1.17
E37000024	New Anglia	1 : Agriculture, forestry and fishing (A)	6,300	74,590	2.21
E37000024	New Anglia	15 : Public administration and defence (O)	1,075	74,590	2.04
E37000024	New Anglia	5 : Motor trades (Part G)	2,640	74,590	1.31
E37000024	New Anglia	2 : Mining, quarrying and utilities (B,D and E)	530	74,590	1.25
E37000024	New Anglia	3 : Manufacturing (C)	4,020	74,590	1.16
E37000035	Thames Valley Berkshire	10 : Information and communication (J)	8,005	51,310	2.03
E37000035	Thames Valley Berkshire	13 : Professional, scientific and technical (M)	10,445	51,310	1.23
E37000035	Thames Valley Berkshire	2 : Mining, quarrying and utilities (B,D and E)	320	51,310	1.09
E37000035	Thames Valley Berkshire	14 : Business administration and support services (N)	4,805	51,310	1.05
E37000035	Thames Valley Berkshire	6 : Wholesale (Part G)	2,115	51,310	1.03
E37000001	Black Country	3 : Manufacturing (C)	3,660	40,205	1.96
E37000001	Black Country	8 : Transport and storage (inc postal) (H)	3,145	40,205	1.89
E37000001	Black Country	5 : Motor trades (Part G)	1,650	40,205	1.52
E37000001	Black Country	6 : Wholesale (Part G)	2,350	40,205	1.46
E37000001	Black Country	7 : Retail (Part G)	4,755	40,205	1.28
E37000018	Humber	1 : Agriculture, forestry and fishing (A)	2,650	37,135	1.87
E37000018	Humber	15 : Public administration and defence (O)	485	37,135	1.85
E37000018	Humber	8 : Transport and storage (inc postal) (H)	2,750	37,135	1.79
E37000018	Humber	2 : Mining, quarrying and utilities (B,D and E)	330	37,135	1.56
E37000018	Humber	3 : Manufacturing (C)	2,400	37,135	1.39
E37000011	Gloucestershire	1 : Agriculture, forestry and fishing (A)	2,370	33,530	1.85
E37000011	Gloucestershire	15 : Public administration and defence (O)	300	33,530	1.27
E37000011	Gloucestershire	3 : Manufacturing (C)	1,780	33,530	1.14
E37000011	Gloucestershire	5 : Motor trades (Part G)	970	33,530	1.07
E37000011	Gloucestershire	2 : Mining, quarrying and utilities (B,D and E)	200	33,530	1.05
E37000040	Sheffield City Region	15 : Public administration and defence (O)	880	68,380	1.83
E37000040	Sheffield City Region	3 : Manufacturing (C)	4,495	68,380	1.41
E37000040	Sheffield City Region	8 : Transport and storage (inc postal) (H)	3,940	68,380	1.39
E37000040	Sheffield City Region	5 : Motor trades (Part G)	2,465	68,380	1.33
E37000040	Sheffield City Region	2 : Mining, quarrying and utilities (B,D and E)	495	68,380	1.27
E37000021	Leicester and Leicestershire	11 : Financial and insurance (K)	2,110	48,260	1.82
E37000021	Leicester and Leicestershire	3 : Manufacturing (C)	3,700	48,260	1.65
E37000021	Leicester and Leicestershire	8 : Transport and storage (inc postal) (H)	2,695	48,260	1.35
E37000021	Leicester and Leicestershire	6 : Wholesale (Part G)	2,375	48,260	1.23
E37000021	Leicester and Leicestershire	5 : Motor trades (Part G)	1,560	48,260	1.20
E37000042	Greater Cambridge and Greater Peterborough	1 : Agriculture, forestry and fishing (A)	5,755	83,340	1.81
E37000042	Greater Cambridge and Greater Peterborough	15 : Public administration and defence (O)	840	83,340	1.43
E37000042	Greater Cambridge and Greater Peterborough	8 : Transport and storage (inc postal) (H)	4,285	83,340	1.24
E37000042	Greater Cambridge and Greater Peterborough	5 : Motor trades (Part G)	2,715	83,340	1.20
E37000042	Greater Cambridge and Greater Peterborough	3 : Manufacturing (C)	4,400	83,340	1.14
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	15 : Public administration and defence (O)	1,045	86,695	1.71
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	3 : Manufacturing (C)	5,690	86,695	1.41

Table 64: Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017) (*continued*)

geo code	geo name	value sector	value	total lep	lq
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	5 : Motor trades (Part G)	3,140	86,695	1.34
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	1 : Agriculture, forestry and fishing (A)	3,870	86,695	1.17
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	16 : Education (P)	2,485	86,695	1.16
E37000012	Greater Birmingham and Solihull	8 : Transport and storage (inc postal) (H)	6,210	87,685	1.71
E37000012	Greater Birmingham and Solihull	14 : Business administration and support services (N)	9,860	87,685	1.26
E37000012	Greater Birmingham and Solihull	3 : Manufacturing (C)	5,090	87,685	1.25
E37000012	Greater Birmingham and Solihull	17 : Health (Q)	5,930	87,685	1.18
E37000012	Greater Birmingham and Solihull	5 : Motor trades (Part G)	2,685	87,685	1.13
E37000032	Stoke-on-Trent and Staffordshire	1 : Agriculture, forestry and fishing (A)	2,945	46,200	1.67
E37000032	Stoke-on-Trent and Staffordshire	8 : Transport and storage (inc postal) (H)	2,690	46,200	1.41
E37000032	Stoke-on-Trent and Staffordshire	3 : Manufacturing (C)	3,020	46,200	1.41
E37000032	Stoke-on-Trent and Staffordshire	5 : Motor trades (Part G)	1,745	46,200	1.40
E37000032	Stoke-on-Trent and Staffordshire	15 : Public administration and defence (O)	395	46,200	1.21
E37000009	Dorset	1 : Agriculture, forestry and fishing (A)	2,335	37,560	1.63
E37000009	Dorset	4 : Construction (F)	4,880	37,560	1.22
E37000009	Dorset	15 : Public administration and defence (O)	320	37,560	1.21
E37000009	Dorset	3 : Manufacturing (C)	2,095	37,560	1.20
E37000009	Dorset	9 : Accommodation and food services (I)	2,640	37,560	1.18
E37000006	Coventry and Warwickshire	8 : Transport and storage (inc postal) (H)	2,940	43,725	1.62
E37000006	Coventry and Warwickshire	5 : Motor trades (Part G)	1,445	43,725	1.22
E37000006	Coventry and Warwickshire	3 : Manufacturing (C)	2,420	43,725	1.19
E37000006	Coventry and Warwickshire	15 : Public administration and defence (O)	365	43,725	1.18
E37000006	Coventry and Warwickshire	13 : Professional, scientific and technical (M)	8,145	43,725	1.13
E37000025	North East	15 : Public administration and defence (O)	750	66,255	1.61
E37000025	North East	1 : Agriculture, forestry and fishing (A)	3,620	66,255	1.43
E37000025	North East	9 : Accommodation and food services (I)	5,565	66,255	1.41
E37000025	North East	17 : Health (Q)	4,815	66,255	1.27
E37000025	North East	7 : Retail (Part G)	7,540	66,255	1.23
E37000023	London	10 : Information and communication (J)	69,400	566,710	1.59
E37000023	London	13 : Professional, scientific and technical (M)	123,420	566,710	1.32
E37000023	London	12 : Property (L)	25,445	566,710	1.27
E37000023	London	11 : Financial and insurance (K)	17,120	566,710	1.26
E37000023	London	14 : Business administration and support services (N)	58,935	566,710	1.16
E37000022	Liverpool City Region	8 : Transport and storage (inc postal) (H)	3,195	51,585	1.49
E37000022	Liverpool City Region	17 : Health (Q)	3,970	51,585	1.35
E37000022	Liverpool City Region	7 : Retail (Part G)	5,805	51,585	1.22
E37000022	Liverpool City Region	18 : Arts, entertainment, recreation and other services (R,S,T and U)	3,890	51,585	1.19
E37000022	Liverpool City Region	9 : Accommodation and food services (I)	3,650	51,585	1.19
E37000010	Enterprise M3	10 : Information and communication (J)	10,340	90,255	1.49
E37000010	Enterprise M3	13 : Professional, scientific and technical (M)	19,165	90,255	1.29
E37000010	Enterprise M3	11 : Financial and insurance (K)	2,290	90,255	1.06
E37000010	Enterprise M3	18 : Arts, entertainment, recreation and other services (R,S,T and U)	5,915	90,255	1.03
E37000010	Enterprise M3	12 : Property (L)	3,175	90,255	1.00
E37000017	Hertfordshire	8 : Transport and storage (inc postal) (H)	4,350	71,310	1.47
E37000017	Hertfordshire	10 : Information and communication (J)	7,470	71,310	1.36
E37000017	Hertfordshire	13 : Professional, scientific and technical (M)	13,285	71,310	1.13
E37000017	Hertfordshire	4 : Construction (F)	8,370	71,310	1.11

Table 64: Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017) (continued)

geo code	geo name	value sector	value	total lep	lq
E37000017	Hertfordshire	6 : Wholesale (Part G)	3,120	71,310	1.09
E37000041	South East Midlands	8 : Transport and storage (inc postal) (H)	6,435	106,500	1.46
E37000041	South East Midlands	14 : Business administration and support services (N)	13,215	106,500	1.39
E37000041	South East Midlands	5 : Motor trades (Part G)	3,490	106,500	1.21
E37000041	South East Midlands	10 : Information and communication (J)	8,430	106,500	1.03
E37000041	South East Midlands	3 : Manufacturing (C)	5,090	106,500	1.03
E37000015	Greater Manchester	11 : Financial and insurance (K)	4,110	118,715	1.44
E37000015	Greater Manchester	7 : Retail (Part G)	14,910	118,715	1.36
E37000015	Greater Manchester	8 : Transport and storage (inc postal) (H)	6,090	118,715	1.24
E37000015	Greater Manchester	6 : Wholesale (Part G)	5,815	118,715	1.22
E37000015	Greater Manchester	17 : Health (Q)	7,840	118,715	1.15
E37000019	Lancashire	1 : Agriculture, forestry and fishing (A)	3,355	61,295	1.43
E37000019	Lancashire	5 : Motor trades (Part G)	2,260	61,295	1.36
E37000019	Lancashire	3 : Manufacturing (C)	3,810	61,295	1.34
E37000019	Lancashire	7 : Retail (Part G)	6,980	61,295	1.23
E37000019	Lancashire	15 : Public administration and defence (O)	525	61,295	1.22
E37000030	South East	4 : Construction (F)	29,175	194,510	1.41
E37000030	South East	5 : Motor trades (Part G)	5,990	194,510	1.14
E37000030	South East	3 : Manufacturing (C)	9,480	194,510	1.05
E37000030	South East	6 : Wholesale (Part G)	7,985	194,510	1.02
E37000030	South East	2 : Mining, quarrying and utilities (B,D and E)	1,110	194,510	1.00
E37000003	Cheshire and Warrington	1 : Agriculture, forestry and fishing (A)	2,630	49,205	1.40
E37000003	Cheshire and Warrington	13 : Professional, scientific and technical (M)	9,685	49,205	1.19
E37000003	Cheshire and Warrington	14 : Business administration and support services (N)	4,680	49,205	1.07
E37000003	Cheshire and Warrington	11 : Financial and insurance (K)	1,255	49,205	1.06
E37000003	Cheshire and Warrington	2 : Mining, quarrying and utilities (B,D and E)	295	49,205	1.05
E37000002	Buckinghamshire Thames Valley	10 : Information and communication (J)	3,665	34,175	1.39
E37000002	Buckinghamshire Thames Valley	13 : Professional, scientific and technical (M)	7,250	34,175	1.29
E37000002	Buckinghamshire Thames Valley	12 : Property (L)	1,350	34,175	1.12
E37000002	Buckinghamshire Thames Valley	18 : Arts, entertainment, recreation and other services (R,S,T and U)	2,250	34,175	1.04
E37000002	Buckinghamshire Thames Valley	6 : Wholesale (Part G)	1,410	34,175	1.03
E37000027	Oxfordshire	15 : Public administration and defence (O)	345	36,360	1.35
E37000027	Oxfordshire	1 : Agriculture, forestry and fishing (A)	1,705	36,360	1.23
E37000027	Oxfordshire	16 : Education (P)	1,100	36,360	1.22
E37000027	Oxfordshire	13 : Professional, scientific and technical (M)	7,055	36,360	1.18
E37000027	Oxfordshire	10 : Information and communication (J)	3,100	36,360	1.11
E37000034	Tees Valley	2 : Mining, quarrying and utilities (B,D and E)	165	22,300	1.30
E37000034	Tees Valley	17 : Health (Q)	1,610	22,300	1.26
E37000034	Tees Valley	15 : Public administration and defence (O)	195	22,300	1.24
E37000034	Tees Valley	3 : Manufacturing (C)	1,280	22,300	1.23
E37000034	Tees Valley	5 : Motor trades (Part G)	725	22,300	1.20
E37000029	Solent	4 : Construction (F)	6,850	49,960	1.29
E37000029	Solent	7 : Retail (Part G)	5,805	49,960	1.26
E37000029	Solent	3 : Manufacturing (C)	2,775	49,960	1.19
E37000029	Solent	9 : Accommodation and food services (I)	3,465	49,960	1.16
E37000029	Solent	5 : Motor trades (Part G)	1,530	49,960	1.13
E37000004	Coast to Capital	10 : Information and communication (J)	10,200	103,380	1.28
E37000004	Coast to Capital	4 : Construction (F)	12,325	103,380	1.12
E37000004	Coast to Capital	13 : Professional, scientific and technical (M)	18,985	103,380	1.11
E37000004	Coast to Capital	18 : Arts, entertainment, recreation and other services (R,S,T and U)	7,085	103,380	1.08
E37000004	Coast to Capital	17 : Health (Q)	6,055	103,380	1.02
E37000020	Leeds City Region	3 : Manufacturing (C)	7,415	126,240	1.26
E37000020	Leeds City Region	5 : Motor trades (Part G)	4,195	126,240	1.23
E37000020	Leeds City Region	8 : Transport and storage (inc postal) (H)	6,130	126,240	1.17
E37000020	Leeds City Region	7 : Retail (Part G)	13,515	126,240	1.16
E37000020	Leeds City Region	17 : Health (Q)	8,300	126,240	1.15
E37000037	West of England	11 : Financial and insurance (K)	1,615	54,160	1.24
E37000037	West of England	10 : Information and communication (J)	4,795	54,160	1.15
E37000037	West of England	5 : Motor trades (Part G)	1,570	54,160	1.07

Table 64: Location Quotient in terms of Local Units, five sectors with highest LQ by LEP (2017) (*continued*)

geo code	geo name	value sector	value	total lep	lq
E37000037	West of England	8 : Transport and storage (inc postal) (H)	2,400	54,160	1.07
E37000037	West of England	13 : Professional, scientific and technical (M)	9,435	54,160	1.06

Source: Calculated from data in NOMIS Business counts UK. Available at: <https://www.nomisweb.co.uk/>

Table 65: Location Quotient in terms of Employees, five sectors with highest LQ by LEP (2017)

geo code	geo name	value sector	value	total lep	lq
E37000036	The Marches	1 : Agriculture, forestry and fishing (A)	22,000	313,000	5.39
E37000036	The Marches	3 : Manufacturing (C)	38,000	313,000	1.54
E37000036	The Marches	5 : Motor trades (Part G)	8,000	313,000	1.43
E37000036	The Marches	6 : Wholesale (Part G)	15,000	313,000	1.21
E37000036	The Marches	2 : Mining, quarrying and utilities (B,D and E)	4,000	313,000	1.13
E37000005	Cornwall and Isles of Scilly	1 : Agriculture, forestry and fishing (A)	13,000	233,000	4.28
E37000005	Cornwall and Isles of Scilly	9 : Accommodation and food services (I)	36,000	233,000	2.09
E37000005	Cornwall and Isles of Scilly	7 : Retail (Part G)	29,000	233,000	1.31
E37000005	Cornwall and Isles of Scilly	4 : Construction (F)	14,000	233,000	1.23
E37000005	Cornwall and Isles of Scilly	2 : Mining, quarrying and utilities (B,D and E)	3,000	233,000	1.14
E37000007	Cumbria	1 : Agriculture, forestry and fishing (A)	13,000	248,500	4.01
E37000007	Cumbria	3 : Manufacturing (C)	39,000	248,500	1.99
E37000007	Cumbria	9 : Accommodation and food services (I)	25,000	248,500	1.36
E37000007	Cumbria	5 : Motor trades (Part G)	6,000	248,500	1.35
E37000007	Cumbria	4 : Construction (F)	14,000	248,500	1.16
E37000039	York, North Yorkshire and East Riding	1 : Agriculture, forestry and fishing (A)	26,000	542,000	3.68
E37000039	York, North Yorkshire and East Riding	9 : Accommodation and food services (I)	59,000	542,000	1.47
E37000039	York, North Yorkshire and East Riding	3 : Manufacturing (C)	55,000	542,000	1.28
E37000039	York, North Yorkshire and East Riding	15 : Public administration and defence (O)	25,000	542,000	1.21
E37000039	York, North Yorkshire and East Riding	5 : Motor trades (Part G)	11,000	542,000	1.13
E37000016	Heart of the South West	1 : Agriculture, forestry and fishing (A)	33,000	759,000	3.33
E37000016	Heart of the South West	9 : Accommodation and food services (I)	77,000	759,000	1.37
E37000016	Heart of the South West	2 : Mining, quarrying and utilities (B,D and E)	11,000	759,000	1.28
E37000016	Heart of the South West	7 : Retail (Part G)	85,000	759,000	1.18
E37000016	Heart of the South West	3 : Manufacturing (C)	69,000	759,000	1.15
E37000014	Greater Lincolnshire	1 : Agriculture, forestry and fishing (A)	18,000	452,500	3.05
E37000014	Greater Lincolnshire	3 : Manufacturing (C)	68,000	452,500	1.90
E37000014	Greater Lincolnshire	5 : Motor trades (Part G)	11,000	452,500	1.36
E37000014	Greater Lincolnshire	8 : Transport and storage (inc postal) (H)	26,000	452,500	1.20
E37000014	Greater Lincolnshire	2 : Mining, quarrying and utilities (B,D and E)	6,000	452,500	1.17
E37000035	Thames Valley Berkshire	10 : Information and communication (J)	69,000	516,500	3.04
E37000035	Thames Valley Berkshire	2 : Mining, quarrying and utilities (B,D and E)	9,000	516,500	1.54
E37000035	Thames Valley Berkshire	6 : Wholesale (Part G)	30,000	516,500	1.47
E37000035	Thames Valley Berkshire	18 : Arts, entertainment, recreation and other services (R,S,T and U)	28,000	516,500	1.18
E37000035	Thames Valley Berkshire	13 : Professional, scientific and technical (M)	53,000	516,500	1.16
E37000024	New Anglia	1 : Agriculture, forestry and fishing (A)	24,000	722,000	2.55
E37000024	New Anglia	5 : Motor trades (Part G)	16,000	722,000	1.24
E37000024	New Anglia	3 : Manufacturing (C)	68,000	722,000	1.19
E37000024	New Anglia	7 : Retail (Part G)	76,000	722,000	1.11
E37000024	New Anglia	4 : Construction (F)	39,000	722,000	1.11
E37000021	Leicester and Leicestershire	2 : Mining, quarrying and utilities (B,D and E)	13,000	489,000	2.35
E37000021	Leicester and Leicestershire	3 : Manufacturing (C)	66,000	489,000	1.71
E37000021	Leicester and Leicestershire	8 : Transport and storage (inc postal) (H)	28,000	489,000	1.20
E37000021	Leicester and Leicestershire	5 : Motor trades (Part G)	10,000	489,000	1.14
E37000021	Leicester and Leicestershire	6 : Wholesale (Part G)	22,000	489,000	1.14
E37000018	Humber	3 : Manufacturing (C)	67,000	409,000	2.07
E37000018	Humber	1 : Agriculture, forestry and fishing (A)	9,000	409,000	1.69
E37000018	Humber	8 : Transport and storage (inc postal) (H)	28,000	409,000	1.43
E37000018	Humber	5 : Motor trades (Part G)	10,000	409,000	1.36
E37000018	Humber	15 : Public administration and defence (O)	19,000	409,000	1.22
E37000006	Coventry and Warwickshire	2 : Mining, quarrying and utilities (B,D and E)	11,000	470,000	2.07
E37000006	Coventry and Warwickshire	5 : Motor trades (Part G)	15,000	470,000	1.78
E37000006	Coventry and Warwickshire	3 : Manufacturing (C)	53,000	470,000	1.43
E37000006	Coventry and Warwickshire	6 : Wholesale (Part G)	23,000	470,000	1.24
E37000006	Coventry and Warwickshire	8 : Transport and storage (inc postal) (H)	27,000	470,000	1.20
E37000023	London	11 : Financial and insurance (K)	373,000	5,269,000	2.04
E37000023	London	10 : Information and communication (J)	421,000	5,269,000	1.82
E37000023	London	13 : Professional, scientific and technical (M)	719,000	5,269,000	1.55
E37000023	London	12 : Property (L)	124,000	5,269,000	1.27

Table 65: Location Quotient in terms of Employees, five sectors with highest LQ by LEP (2017) (*continued*)

geo code	geo name	value sector	value	total lep	lq
E37000023	London	14 : Business administration and support services (N)	580,000	5,269,000	1.20
E37000042	Greater Cambridge and Greater Peterborough	1 : Agriculture, forestry and fishing (A)	22,000	829,000	2.03
E37000042	Greater Cambridge and Greater Peterborough	3 : Manufacturing (C)	87,000	829,000	1.33
E37000042	Greater Cambridge and Greater Peterborough	6 : Wholesale (Part G)	38,000	829,000	1.16
E37000042	Greater Cambridge and Greater Peterborough	5 : Motor trades (Part G)	17,000	829,000	1.14
E37000042	Greater Cambridge and Greater Peterborough	14 : Business administration and support services (N)	81,000	829,000	1.07
E37000001	Black Country	2 : Mining, quarrying and utilities (B,D and E)	10,000	471,250	1.87
E37000001	Black Country	3 : Manufacturing (C)	63,000	471,250	1.69
E37000001	Black Country	6 : Wholesale (Part G)	29,000	471,250	1.56
E37000001	Black Country	5 : Motor trades (Part G)	13,000	471,250	1.54
E37000001	Black Country	12 : Property (L)	11,000	471,250	1.26
E37000011	Gloucestershire	1 : Agriculture, forestry and fishing (A)	7,000	298,500	1.80
E37000011	Gloucestershire	3 : Manufacturing (C)	34,000	298,500	1.44
E37000011	Gloucestershire	2 : Mining, quarrying and utilities (B,D and E)	4,500	298,500	1.33
E37000011	Gloucestershire	9 : Accommodation and food services (I)	27,000	298,500	1.22
E37000011	Gloucestershire	4 : Construction (F)	17,000	298,500	1.17
E37000002	Buckinghamshire Thames Valley	6 : Wholesale (Part G)	17,000	240,250	1.79
E37000002	Buckinghamshire Thames Valley	10 : Information and communication (J)	15,000	240,250	1.42
E37000002	Buckinghamshire Thames Valley	12 : Property (L)	6,000	240,250	1.35
E37000002	Buckinghamshire Thames Valley	1 : Agriculture, forestry and fishing (A)	4,000	240,250	1.28
E37000002	Buckinghamshire Thames Valley	4 : Construction (F)	14,000	240,250	1.20
E37000027	Oxfordshire	16 : Education (P)	57,000	372,500	1.76
E37000027	Oxfordshire	4 : Construction (F)	23,000	372,500	1.27
E37000027	Oxfordshire	10 : Information and communication (J)	20,000	372,500	1.22
E37000027	Oxfordshire	13 : Professional, scientific and technical (M)	39,000	372,500	1.19
E37000027	Oxfordshire	5 : Motor trades (Part G)	7,000	372,500	1.05
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	3 : Manufacturing (C)	135,000	976,000	1.75
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	2 : Mining, quarrying and utilities (B,D and E)	16,000	976,000	1.45
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	5 : Motor trades (Part G)	20,000	976,000	1.14
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	17 : Health (Q)	140,000	976,000	1.14
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	14 : Business administration and support services (N)	97,000	976,000	1.09
E37000032	Stoke-on-Trent and Staffordshire	1 : Agriculture, forestry and fishing (A)	11,000	488,000	1.73
E37000032	Stoke-on-Trent and Staffordshire	3 : Manufacturing (C)	60,000	488,000	1.56
E37000032	Stoke-on-Trent and Staffordshire	5 : Motor trades (Part G)	13,000	488,000	1.49
E37000032	Stoke-on-Trent and Staffordshire	6 : Wholesale (Part G)	28,000	488,000	1.45
E37000032	Stoke-on-Trent and Staffordshire	8 : Transport and storage (inc postal) (H)	32,000	488,000	1.37
E37000019	Lancashire	3 : Manufacturing (C)	87,000	653,000	1.69
E37000019	Lancashire	1 : Agriculture, forestry and fishing (A)	12,000	653,000	1.41
E37000019	Lancashire	15 : Public administration and defence (O)	31,000	653,000	1.25
E37000019	Lancashire	17 : Health (Q)	100,000	653,000	1.21

Table 65: Location Quotient in terms of Employees, five sectors with highest LQ by LEP (2017) (continued)

geo code	geo name	value sector	value	total lep	lq
E37000019	Lancashire	5 : Motor trades (Part G)	14,000	653,000	1.20
E37000041	South East Midlands	8 : Transport and storage (inc postal) (H)	79,000	987,000	1.68
E37000041	South East Midlands	5 : Motor trades (Part G)	27,000	987,000	1.53
E37000041	South East Midlands	6 : Wholesale (Part G)	56,000	987,000	1.43
E37000041	South East Midlands	3 : Manufacturing (C)	94,000	987,000	1.20
E37000041	South East Midlands	14 : Business administration and support services (N)	105,000	987,000	1.16
E37000038	Worcestershire	1 : Agriculture, forestry and fishing (A)	6,000	275,500	1.67
E37000038	Worcestershire	8 : Transport and storage (inc postal) (H)	20,000	275,500	1.52
E37000038	Worcestershire	3 : Manufacturing (C)	33,000	275,500	1.52
E37000038	Worcestershire	5 : Motor trades (Part G)	7,000	275,500	1.42
E37000038	Worcestershire	12 : Property (L)	7,000	275,500	1.38
E37000025	North East	15 : Public administration and defence (O)	52,000	826,000	1.66
E37000025	North East	3 : Manufacturing (C)	93,000	826,000	1.42
E37000025	North East	2 : Mining, quarrying and utilities (B,D and E)	13,000	826,000	1.39
E37000025	North East	9 : Accommodation and food services (I)	75,000	826,000	1.23
E37000025	North East	17 : Health (Q)	120,000	826,000	1.15
E37000034	Tees Valley	2 : Mining, quarrying and utilities (B,D and E)	5,000	268,750	1.64
E37000034	Tees Valley	17 : Health (Q)	47,000	268,750	1.38
E37000034	Tees Valley	15 : Public administration and defence (O)	13,000	268,750	1.27
E37000034	Tees Valley	3 : Manufacturing (C)	26,000	268,750	1.22
E37000034	Tees Valley	7 : Retail (Part G)	28,000	268,750	1.10
E37000033	Swindon and Wiltshire	1 : Agriculture, forestry and fishing (A)	7,000	327,000	1.64
E37000033	Swindon and Wiltshire	6 : Wholesale (Part G)	16,000	327,000	1.24
E37000033	Swindon and Wiltshire	5 : Motor trades (Part G)	7,000	327,000	1.19
E37000033	Swindon and Wiltshire	11 : Financial and insurance (K)	13,000	327,000	1.14
E37000033	Swindon and Wiltshire	9 : Accommodation and food services (I)	27,000	327,000	1.12
E37000017	Hertfordshire	14 : Business administration and support services (N)	96,000	648,000	1.62
E37000017	Hertfordshire	13 : Professional, scientific and technical (M)	79,000	648,000	1.38
E37000017	Hertfordshire	6 : Wholesale (Part G)	35,000	648,000	1.37
E37000017	Hertfordshire	4 : Construction (F)	39,000	648,000	1.24
E37000017	Hertfordshire	7 : Retail (Part G)	75,000	648,000	1.22
E37000009	Dorset	1 : Agriculture, forestry and fishing (A)	7,000	342,000	1.57
E37000009	Dorset	9 : Accommodation and food services (I)	35,000	342,000	1.39
E37000009	Dorset	11 : Financial and insurance (K)	16,000	342,000	1.35
E37000009	Dorset	12 : Property (L)	8,000	342,000	1.27
E37000009	Dorset	4 : Construction (F)	19,000	342,000	1.14
E37000010	Enterprise M3	10 : Information and communication (J)	51,000	752,000	1.54
E37000010	Enterprise M3	2 : Mining, quarrying and utilities (B,D and E)	12,000	752,000	1.41
E37000010	Enterprise M3	18 : Arts, entertainment, recreation and other services (R,S,T and U)	47,000	752,000	1.36
E37000010	Enterprise M3	6 : Wholesale (Part G)	38,000	752,000	1.28
E37000010	Enterprise M3	4 : Construction (F)	46,000	752,000	1.26
E37000022	Liverpool City Region	15 : Public administration and defence (O)	37,000	639,250	1.52
E37000022	Liverpool City Region	17 : Health (Q)	111,000	639,250	1.37
E37000022	Liverpool City Region	2 : Mining, quarrying and utilities (B,D and E)	9,000	639,250	1.24
E37000022	Liverpool City Region	18 : Arts, entertainment, recreation and other services (R,S,T and U)	34,000	639,250	1.16
E37000022	Liverpool City Region	8 : Transport and storage (inc postal) (H)	35,000	639,250	1.15
E37000040	Sheffield City Region	3 : Manufacturing (C)	91,000	771,000	1.49
E37000040	Sheffield City Region	5 : Motor trades (Part G)	18,000	771,000	1.30
E37000040	Sheffield City Region	17 : Health (Q)	119,000	771,000	1.22
E37000040	Sheffield City Region	8 : Transport and storage (inc postal) (H)	43,000	771,000	1.17
E37000040	Sheffield City Region	15 : Public administration and defence (O)	34,000	771,000	1.16
E37000003	Cheshire and Warrington	13 : Professional, scientific and technical (M)	65,000	513,000	1.43
E37000003	Cheshire and Warrington	1 : Agriculture, forestry and fishing (A)	9,000	513,000	1.35
E37000003	Cheshire and Warrington	5 : Motor trades (Part G)	12,000	513,000	1.31
E37000003	Cheshire and Warrington	3 : Manufacturing (C)	45,000	513,000	1.11
E37000003	Cheshire and Warrington	7 : Retail (Part G)	52,000	513,000	1.07
E37000037	West of England	11 : Financial and insurance (K)	30,000	602,000	1.43
E37000037	West of England	15 : Public administration and defence (O)	30,000	602,000	1.31
E37000037	West of England	10 : Information and communication (J)	32,000	602,000	1.21
E37000037	West of England	16 : Education (P)	56,000	602,000	1.07
E37000037	West of England	4 : Construction (F)	31,000	602,000	1.06
E37000030	South East	4 : Construction (F)	115,000	1,660,000	1.42
E37000030	South East	1 : Agriculture, forestry and fishing (A)	30,000	1,660,000	1.39

Table 65: Location Quotient in terms of Employees, five sectors with highest LQ by LEP (2017) (*continued*)

geo code	geo name	value sector	value	total lep	lq
E37000030	South East	5 : Motor trades (Part G)	37,000	1,660,000	1.24
E37000030	South East	7 : Retail (Part G)	180,000	1,660,000	1.14
E37000030	South East	17 : Health (Q)	233,000	1,660,000	1.11
E37000020	Leeds City Region	3 : Manufacturing (C)	144,000	1,422,000	1.28
E37000020	Leeds City Region	8 : Transport and storage (inc postal) (H)	79,000	1,422,000	1.16
E37000020	Leeds City Region	11 : Financial and insurance (K)	55,000	1,422,000	1.11
E37000020	Leeds City Region	5 : Motor trades (Part G)	28,000	1,422,000	1.10
E37000020	Leeds City Region	6 : Wholesale (Part G)	61,000	1,422,000	1.08
E37000015	Greater Manchester	12 : Property (L)	31,000	1,333,000	1.26
E37000015	Greater Manchester	8 : Transport and storage (inc postal) (H)	76,000	1,333,000	1.19
E37000015	Greater Manchester	6 : Wholesale (Part G)	60,000	1,333,000	1.14
E37000015	Greater Manchester	14 : Business administration and support services (N)	132,000	1,333,000	1.08
E37000015	Greater Manchester	7 : Retail (Part G)	136,000	1,333,000	1.08
E37000012	Greater Birmingham and Solihull	8 : Transport and storage (inc postal) (H)	58,000	965,500	1.26
E37000012	Greater Birmingham and Solihull	5 : Motor trades (Part G)	21,000	965,500	1.21
E37000012	Greater Birmingham and Solihull	3 : Manufacturing (C)	92,000	965,500	1.21
E37000012	Greater Birmingham and Solihull	6 : Wholesale (Part G)	43,000	965,500	1.13
E37000012	Greater Birmingham and Solihull	14 : Business administration and support services (N)	93,000	965,500	1.05
E37000004	Coast to Capital	11 : Financial and insurance (K)	37,000	879,000	1.21
E37000004	Coast to Capital	2 : Mining, quarrying and utilities (B,D and E)	12,000	879,000	1.21
E37000004	Coast to Capital	18 : Arts, entertainment, recreation and other services (R,S,T and U)	46,000	879,000	1.14
E37000004	Coast to Capital	17 : Health (Q)	125,000	879,000	1.13
E37000004	Coast to Capital	4 : Construction (F)	47,000	879,000	1.10
E37000029	Solent	7 : Retail (Part G)	60,000	535,000	1.18
E37000029	Solent	16 : Education (P)	55,000	535,000	1.18
E37000029	Solent	5 : Motor trades (Part G)	11,000	535,000	1.15
E37000029	Solent	15 : Public administration and defence (O)	23,000	535,000	1.13
E37000029	Solent	4 : Construction (F)	29,000	535,000	1.11

Source:

Calculated from data in NOMIS. Business Register and Employment Survey : open access. Available at: <https://www.nomisweb.co.uk/>

Ideas

Business expenditure in R&D and number of businesses performing R&D activities

Due to their disclosive nature and the sampling methods used to compile R&D expenditure data, these measures have always been difficult to obtain for sub-regional geographies. R&D expenditure data is usually released by the ONS at NUTS1 level, and we provide here these figures by broad sector of performance (private sector, government, higher education, etc.), as well as available breakdowns for manufacturing R&D.

Table 66: R&D Business Expenditure (million £) NUTS1, 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	21,469			26.2	11.8	4.3	7.3	5.0	7.5
E12000008	South East	4,860	1.27	22.6	13.3	2.0	2.7	-0.7	3.4	7.5
E12000006	East of England	4,677	1.89	21.8	13.1	11.4	3.5	7.6	2.6	-1.0
E12000007	London	2,796	2.15	13.0	116.6	48.9	19.1	25.0	8.9	33.5
E12000005	West Midlands	2,467	1.60	11.5	46.5	14.3	5.2	8.6	12.2	14.3
E12000002	North West	2,174	0.75	10.1	18.5	2.8	-8.5	12.4	10.6	4.3
E12000009	South West	1,652	1.86	7.7	13.9	12.0	9.0	2.8	-5.5	7.7
E12000004	East Midlands	1,521	1.09	7.1	13.5	-0.5	-9.2	9.7	3.7	9.9
E12000003	Yorkshire and the Humber	938	1.98	4.4	42.1	22.1	21.7	0.4	9.7	6.1
E12000001	North East	384	2.41	1.8	18.9	25.5	24.7	0.7	8.5	-12.7

Source: ONS Business enterprise research and development. Available at: <https://www.ons.gov.uk>

Table 67: Manufacturing R&D expenditure of UK businesses, (million £) NUTS1 total business sector and broad manufacturing sector breakdowns, 2017

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England (TOTAL)	21,469		
E92000001	England (Manufacturing: Total)	14,376		
E92000001	England (Chemicals)	4,897		
E92000001	England (Transport)	3,944		
E92000001	England (Other manufacturing)	1,634		
E92000001	England (Electrical machinery)	1,405		
E92000001	England (Aerospace)	1,388		
E92000001	England (Mechanical engineering)	1,111		
E12000008	South East (TOTAL)	4,860	1.61	22.6
E12000008	South East (Manufacturing: Total)	3,185	1.38	22.1
E12000008	South East (Chemicals)	1,588	1.54	32.4
E12000008	South East (Transport)	511	0.14	13.0
E12000008	South East (Other manufacturing)	432	2.06	26.4
E12000008	South East (Mechanical engineering)	255	1.16	22.9
E12000008	South East (Electrical machinery)	241	0.29	17.1
E12000008	South East (Aerospace)	159	0.18	11.5
E12000006	East of England (TOTAL)	4,677	1.49	21.8
E12000006	East of England (Manufacturing: Total)	3,451	1.61	24.0
E12000006	East of England (Chemicals)	1,787	1.83	36.5
E12000006	East of England (Transport)	576	0.26	14.6
E12000006	East of England (Electrical machinery)	482	1.61	34.3
E12000006	East of England (Mechanical engineering)	353	2.02	31.8
E12000006	East of England (Other manufacturing)	225	0.36	13.8
E12000006	East of England (Aerospace)	28	-0.54	2.0
E12000007	London (TOTAL)	2,796	0.27	13.0
E12000007	London (Manufacturing: Total)	455	-0.99	3.2
E12000007	London (Chemicals)	258	-0.42	5.3
E12000007	London (Electrical machinery)	95	-0.51	6.8
E12000007	London (Other manufacturing)	62	-0.98	3.8
E12000007	London (Aerospace)	17	-0.60	1.2
E12000007	London (Transport)	13	-0.81	0.3
E12000007	London (Mechanical engineering)	11	-0.99	1.0
E12000005	West Midlands (TOTAL)	2,467	0.05	11.5

Table 67: Manufacturing R&D expenditure of UK businesses, (million £) NUTS1 total business sector and broad manufacturing sector breakdowns, 2017 (*continued*)

geo code	geo name	value	Zscore	%parent
E12000005	West Midlands (Manufacturing: Total)	2,093	0.43	14.6
E12000005	West Midlands (Transport)	1,680	2.35	42.6
E12000005	West Midlands (Mechanical engineering)	159	0.31	14.3
E12000005	West Midlands (Other manufacturing)	143	-0.32	8.8
E12000005	West Midlands (Aerospace)	49	-0.42	3.5
E12000005	West Midlands (Electrical machinery)	40	-0.81	2.8
E12000005	West Midlands (Chemicals)	22	-0.77	0.4
E12000002	North West (TOTAL)	2,174	-0.14	10.1
E12000002	North West (Manufacturing: Total)	1,810	0.18	12.6
E12000002	North West (Chemicals)	693	0.22	14.2
E12000002	North West (Transport)	608	0.32	15.4
E12000002	North West (Other manufacturing)	292	0.91	17.9
E12000002	North West (Aerospace)	106	-0.11	7.6
E12000002	North West (Electrical machinery)	67	-0.66	4.8
E12000002	North West (Mechanical engineering)	45	-0.69	4.0
E12000009	South West (TOTAL)	1,652	-0.48	7.7
E12000009	South West (Manufacturing: Total)	1,264	-0.29	8.8
E12000009	South West (Aerospace)	518	2.16	37.3
E12000009	South West (Electrical machinery)	375	1.03	26.7
E12000009	South West (Other manufacturing)	139	-0.35	8.5
E12000009	South West (Mechanical engineering)	113	-0.09	10.2
E12000009	South West (Chemicals)	64	-0.71	1.3
E12000009	South West (Transport)	56	-0.72	1.4
E12000001	North East (TOTAL)	384	-1.30	1.8
E12000001	North East (Manufacturing: Total)	235	-1.18	1.6
E12000001	North East (Chemicals)	100	-0.65	2.0
E12000001	North East (Mechanical engineering)	47	-0.67	4.2
E12000001	North East (Other manufacturing)	36	-1.20	2.2
E12000001	North East (Transport)	32	-0.77	0.8
E12000001	North East (Electrical machinery)	16	-0.94	1.1
E12000001	North East (Aerospace)	3	-0.68	0.2
E12000003	Yorkshire and the Humber (TOTAL)	938	-0.94	4.4
E12000003	Yorkshire and the Humber (Manufacturing: Total)	605	-0.86	4.2
E12000003	Yorkshire and the Humber (Chemicals)	244	-0.44	5.0
E12000003	Yorkshire and the Humber (Other manufacturing)	173	-0.07	10.6
E12000003	Yorkshire and the Humber (Transport)	66	-0.71	1.7
E12000003	Yorkshire and the Humber (Mechanical engineering)	61	-0.55	5.5
E12000004	East Midlands (TOTAL)	1,521	-0.56	7.1
E12000004	East Midlands (Manufacturing: Total)	1,278	-0.28	8.9
E12000004	East Midlands (Transport)	402	-0.07	10.2
E12000004	East Midlands (Chemicals)	141	-0.59	2.9
E12000004	East Midlands (Other manufacturing)	132	-0.41	8.1
E12000004	East Midlands (Mechanical engineering)	67	-0.50	6.0

Source: ONS Business enterprise research and development. Available at: <https://www.ons.gov.uk>

Eurostat publishes more disaggregated NUTS2 estimates of R&D expenditure and these are presented below. NUTS2 estimates do not align with LEPs, but we show for each LEP all the data points for NUTS2 regions that totally or partially touch each LEP geography, so that readers interested in a particular LEP geography can refer to the relevant figures. These NUTS2 estimates are always lagging with respect to the latest ONS publications at NUTS1 level (2017 vs 2016).

Table 68: R&D Expenditure (% of GDP), businesses NUTS2, 2016

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
UKH1	East Anglia	4.62	2.83		-2.7	-10.1	-5.1	-5.3	7.3	0.8
UKD6	Cheshire	3.76	2.02		-3.8	15.7	-6.7	24.0	-13.8	-3.6
UKJ1	Berkshire, Buckinghamshire and Oxfordshire	3.67	1.94		10.2	1.4	1.9	-0.6	4.0	4.5
UKH2	Bedfordshire and Hertfordshire	3.35	1.64		20.9	4.0	4.4	-0.3	-14.4	35.7
UKG1	Herefordshire, Worcestershire and Warwickshire	3.01	1.32		13.2	1.0	-7.4	9.1	16.4	-3.8
UKF1	Derbyshire and Nottinghamshire	2.81	1.14		13.8	4.5	3.3	1.1	4.3	4.5
UKK1	Gloucestershire, Wiltshire and Bath/Bristol area	2.06	0.43		-19.5	-20.8	-1.0	-20.0	0.4	1.2
UKD7	Merseyside	2.06	0.43		42.1	22.6	31.2	-6.5	1.8	13.8
UKG3	West Midlands	2.00	0.38		43.9	15.6	6.4	8.7	2.4	21.6
UKJ3	Hampshire and Isle of Wight	1.91	0.29		-21.7	-21.7	-10.7	-12.3	-6.9	7.4
UKH3	Essex	1.67	0.07		3.7	2.5	3.7	-1.2	1.9	-0.6
UKJ2	Surrey, East and West Sussex	1.49	-0.10		-10.2	6.4	-4.5	11.4	-9.7	-6.6
UKI3	Inner London - West	1.48	-0.11		-12.9	-11.9	-9.8	-2.4	1.8	-2.9
UKI7	Outer London - West and North West	1.47	-0.12		58.1	101.4	51.5	32.9	49.0	-47.3
UKE2	North Yorkshire	1.47	-0.12		-8.1	4.3	-9.3	14.9	-30.9	27.5
UKJ4	Kent	1.29	-0.29		-27.5	0.0	3.2	-3.1	1.6	-28.7
UKC2	Northumberland and Tyne and Wear	1.29	-0.29		22.9	25.2	4.0	20.4	-8.8	7.6
UKE3	South Yorkshire	1.26	-0.31		16.7	13.5	1.6	11.7	4.7	-1.9
UKF2	Leicestershire, Rutland and Northamptonshire	1.23	-0.34		4.2	0.0	6.0	-5.7	-2.4	6.8
UKD1	Cumbria	1.18	-0.39		78.8	32.6	-1.7	34.8	61.8	-16.7
UKK4	Devon	1.16	-0.41		68.1	28.9	4.5	23.3	8.4	20.3
UKD4	Lancashire	1.06	-0.50		17.8	17.8	16.5	1.1	1.1	-1.1
UKE4	West Yorkshire	1.02	-0.54		5.2	-4.7	-1.9	-2.8	-1.8	12.4
UKD3	Greater Manchester	0.96	-0.59		6.7	7.9	1.1	6.7	8.5	-8.9
UKC1	Tees Valley and Durham	0.85	-0.70		-10.5	-6.6	-11.5	5.5	-8.1	4.2
UKK2	Dorset and Somerset	0.83	-0.72		13.7	0.0	-3.5	3.6	-2.4	16.4
UKE1	East Yorkshire and Northern Lincolnshire	0.81	-0.73		28.6	11.0	3.8	6.8	812.5	-87.3
UKG2	Shropshire and Staffordshire	0.76	-0.78		26.7	18.8	15.2	3.1	-1.5	8.3
UKI4	Inner London - East	0.51	-1.01		41.7	-1.9	-5.6	3.8	18.2	22.2
UKF3	Lincolnshire	0.46	-1.06		39.4	24.3	24.3	0.0	5.7	6.1
UKI6	Outer London - South	0.44	-1.08		22.2	-18.5	2.3	-20.4	-1.8	52.8
UKK3	Cornwall and Isles of Scilly	0.39	-1.13		85.7	56.0	-2.5	60.0	19.0	0.0
UKI5	Outer London - East and North East	0.32	-1.19		18.5	28.0	-5.9	36.0	-3.8	-3.7

Source: EU Open Data Portal. Intramural R&D expenditure (GERD) by sectors of performance and NUTS 2 regions. Available at: <https://data.europa.eu/euodp/en/data/dataset/YUdZsyJ3THTXt6jnm8JGfw>

The percentage of firms reporting undertaking R&D either in-house or externally sourced in the three years prior to the UK Innovation Survey.

Table 69: Percentage of firms undertaking R&D (%), 2019

geo code	geo name	Indicator			%growth	
		value	Zscore	%parent	2013-19	2017-19
E92000001	England	21.0			23.5	5.0
E37000027	Oxfordshire	40.2	3.55	191.4	43.6	37.2
E37000041	South East Midlands	31.0	1.77	147.6	55.0	25.5
E37000035	Thames Valley Berkshire	28.5	1.29	135.7	58.3	24.5
E37000006	Coventry and Warwickshire	28.1	1.21	133.8	47.9	20.6
E37000042	Greater Cambridge and Greater Peterborough	27.9	1.17	132.9	7.3	-7.0
E37000038	Worcestershire	25.6	0.73	121.9	82.9	32.0
E37000011	Gloucestershire	24.8	0.57	118.1	24.0	-7.1
E37000010	Enterprise M3	24.6	0.53	117.1	23.0	10.8
E37000012	Greater Birmingham and Solihull	24.4	0.50	116.2	74.3	110.3
E37000029	Solent	24.3	0.48	115.7	51.9	38.1
E37000001	Black Country	24.2	0.46	115.2	21.0	37.5
E37000017	Hertfordshire	23.4	0.30	111.4	46.2	20.0
E37000022	Liverpool City Region	23.2	0.26	110.5	22.1	-0.9
E37000037	West of England	23.0	0.23	109.5	130.0	26.4
E37000021	Leicester and Leicestershire	22.9	0.21	109.0	9.0	70.9
E37000019	Lancashire	22.7	0.17	108.1	26.1	21.4
E37000004	Coast to Capital	22.2	0.07	105.7	30.6	19.4
E37000015	Greater Manchester	22.0	0.03	104.8	37.5	21.5
E37000020	Leeds City Region	21.4	-0.08	101.9	25.9	-5.7
E37000016	Heart of the South West	21.2	-0.12	101.0	17.8	42.3
E37000009	Dorset	20.2	-0.32	96.2	12.2	8.0
E37000033	Swindon and Wiltshire	20.2	-0.32	96.2	1.0	24.7
E37000003	Cheshire and Warrington	20.0	-0.35	95.2	11.1	-34.9
E37000023	London	19.8	-0.39	94.3	23.8	5.9
E37000040	Sheffield City Region	19.7	-0.41	93.8	15.9	10.7
E37000030	South East	19.5	-0.45	92.9	30.0	14.0
E37000025	North East	19.3	-0.49	91.9	20.6	-9.4
E37000002	Buckinghamshire Thames Valley	19.1	-0.53	91.0	36.4	-2.6
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	18.7	-0.61	89.0	10.0	-14.2
E37000036	The Marches	18.0	-0.74	85.7	28.6	9.1
E37000039	York, North Yorkshire and East Riding	17.5	-0.84	83.3	34.6	-12.5
E37000005	Cornwall and Isles of Scilly	16.3	-1.07	77.6	25.4	-27.2
E37000007	Cumbria	16.2	-1.09	77.1	35.0	37.3
E37000014	Greater Lincolnshire	15.7	-1.18	74.8	96.2	-0.6
E37000024	New Anglia	14.8	-1.36	70.5	23.3	-23.3
E37000032	Stoke-on-Trent and Staffordshire	13.8	-1.55	65.7	15.0	-32.0
E37000018	Humber	13.4	-1.63	63.8	3.1	-27.6
E37000034	Tees Valley					

Source: ERC Innovation Benchmarks Reports. Available at: www.enterpriseresearch.ac.uk

Research competitiveness and research excellence

Research competitiveness

Table 70: Number of active grants from UK Research councils and Innovate UK (number of grants), 2018

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	27,593			41.2	29.1	11.2	16.1	2.0	7.2
E37000023	London	8,603	5.02	31.2	39.7	25.2	9.6	14.2	3.1	8.3
E37000042	Greater Cambridge and Greater Peterborough	3,329	1.46	12.1	28.0	15.9	4.0	11.4	3.0	7.2
E37000027	Oxfordshire	3,133	1.33	11.4	41.8	22.2	6.9	14.4	7.3	8.1
E37000037	West of England	2,104	0.63	7.6	34.6	23.1	8.1	13.9	5.8	3.4
E37000020	Leeds City Region	2,081	0.62	7.5	32.1	22.6	11.2	10.2	4.2	3.5
E37000015	Greater Manchester	1,928	0.52	7.0	32.3	21.4	6.3	14.2	3.7	5.1
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	1,634	0.32	5.9	37.4	16.0	7.3	8.1	6.8	10.9
E37000025	North East	1,595	0.29	5.8	30.1	22.3	9.8	11.4	3.3	2.9
E37000029	Solent	1,525	0.24	5.5	30.3	21.7	7.8	12.9	3.6	3.4
E37000012	Greater Birmingham and Solihull	1,362	0.13	4.9	38.6	18.2	9.5	8.0	7.2	9.4
E37000040	Sheffield City Region	1,341	0.12	4.9	27.7	19.9	6.9	12.2	1.8	4.6
E37000033	Swindon and Wiltshire	1,327	0.11	4.8	6.2	-1.0	-5.8	5.0	2.6	4.6
E37000006	Coventry and Warwickshire	1,318	0.10	4.8	47.9	22.6	5.4	16.3	8.5	11.2
E37000010	Enterprise M3	1,259	0.06	4.6	13.7	3.5	-2.7	6.4	0.0	9.8
E37000022	Liverpool City Region	1,200	0.02	4.3	30.2	20.1	6.7	12.6	3.8	4.3
E37000016	Heart of the South West	1,091	-0.05	4.0	18.5	9.8	4.7	4.8	2.9	4.9
E37000024	New Anglia	980	-0.12	3.6	-2.2	-8.0	-12.9	5.6	1.4	4.8
E37000035	Thames Valley Berkshire	930	-0.16	3.4	31.0	14.1	2.3	11.5	7.1	7.2
E37000021	Leicester and Leicestershire	906	-0.17	3.3	28.1	17.1	6.1	10.3	0.9	8.5
E37000039	York, North Yorkshire and East Riding	864	-0.20	3.1	36.3	22.7	8.0	13.6	6.8	3.9
E37000030	South East	837	-0.22	3.0	16.4	8.0	4.4	3.5	-2.0	10.0
E37000041	South East Midlands	793	-0.25	2.9	24.9	8.3	-0.1	8.5	0.4	14.8
E37000004	Coast to Capital	742	-0.29	2.7	19.1	7.2	5.5	1.6	0.6	10.4
E37000017	Hertfordshire	700	-0.31	2.5	21.5	4.8	-3.4	8.5	8.4	6.9
E37000019	Lancashire	543	-0.42	2.0	37.1	17.3	9.9	6.7	0.0	16.9
E37000011	Gloucestershire	347	-0.55	1.3	31.4	5.8	6.8	-0.9	3.1	20.5
E37000003	Cheshire and Warrington	318	-0.57	1.2	28.2	13.6	7.8	5.4	-4.1	17.7
E37000032	Stoke-on-Trent and Staffordshire	202	-0.65	0.7	-6.0	-9.8	-1.0	-8.9	-6.7	11.6
E37000014	Greater Lincolnshire	195	-0.65	0.7	11.4	16.1	5.4	10.1	-9.2	5.7
E37000034	Tees Valley	171	-0.67	0.6	39.0	5.6	6.9	-1.2	6.6	23.6
E37000018	Humber	154	-0.68	0.6	0.7	5.5	0.0	5.5	-11.5	7.8
E37000038	Worcestershire	138	-0.69	0.5	7.8	-2.1	-2.1	0.0	0.7	9.4
E37000002	Buckinghamshire Thames Valley	123	-0.70	0.4	-3.1	1.7	0.8	0.8	-7.6	3.1
E37000001	Black Country	122	-0.70	0.4	-14.7	-4.7	-9.6	5.5	-14.7	4.9
E37000036	The Marches	109	-0.71	0.4	11.2	-8.4	-3.5	-5.0	-4.0	26.5
E37000005	Cornwall and Isles of Scilly	90	-0.73	0.3	5.9	7.1	-1.1	8.3	-4.5	3.5
E37000009	Dorset	89	-0.73	0.3	-22.6	-19.1	-7.3	-12.7	-14.7	12.2
E37000007	Cumbria	77	-0.73	0.3	1.3	10.0	13.2	-2.9	-12.5	5.3

Source: UKRI Gateway to research. Available at: <https://gtr.ukri.org/>

Table 71: Value of grant funding in national programmes (£), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	3,855,181,000				5.4	5.3	0.1		
E37000023	London	1,106,528,000	5.13	28.7		-0.1	4.9	-4.8		
E37000027	Oxfordshire	412,357,000	1.58	10.7		7.9	3.9	3.8		
E37000042	Greater Cambridge and Greater Peterborough	395,161,000	1.49	10.2		7.7	10.3	-2.4		
E37000015	Greater Manchester	250,524,000	0.75	6.5		1.9	8.3	-5.9		
E37000020	Leeds City Region	187,032,000	0.43	4.9		12.5	6.6	5.6		
E37000037	West of England	182,806,000	0.41	4.7		10.5	4.1	6.1		
E37000040	Sheffield City Region	172,811,000	0.36	4.5		25.4	28.0	-2.0		
E37000025	North East	135,555,000	0.17	3.5		2.1	2.5	-0.4		
E37000022	Liverpool City Region	130,650,000	0.14	3.4		20.6	2.2	17.9		
E37000012	Greater Birmingham and Solihull	115,821,000	0.07	3.0		-3.5	9.1	-11.6		
E37000006	Coventry and Warwickshire	108,551,000	0.03	2.8		5.5	0.1	5.3		
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	100,335,000	-0.01	2.6		0.1	-4.9	5.3		
E37000029	Solent	95,958,000	-0.04	2.5		2.3	-18.9	26.1		
E37000021	Leicester and Leicestershire	84,515,000	-0.09	2.2		2.7	2.3	0.3		
E37000016	Heart of the South West	64,950,000	-0.19	1.7		12.7	4.1	8.2		
E37000039	York, North Yorkshire and East Riding	57,820,000	-0.23	1.5		12.7	9.0	3.4		
E37000010	Enterprise M3	41,267,000	-0.32	1.1		9.3	8.0	1.2		
E37000041	South East Midlands	40,174,000	-0.32	1.0		-10.7	-1.3	-9.6		
E37000019	Lancashire	39,850,000	-0.32	1.0		13.7	7.2	6.1		
E37000030	South East	38,433,000	-0.33	1.0		10.0	6.3	3.5		
E37000024	New Anglia	37,492,000	-0.34	1.0		36.5	37.0	-0.4		
E37000004	Coast to Capital	35,564,000	-0.34	0.9		4.6	4.5	0.0		
E37000035	Thames Valley Berkshire	30,519,000	-0.37	0.8		20.4	7.6	11.9		
E37000032	Stoke-on-Trent and Staffordshire	15,959,000	-0.45	0.4		7.1	-1.7	8.9		
E37000018	Humber	7,568,000	-0.49	0.2		-25.0	-8.4	-18.1		
E37000014	Greater Lincolnshire	6,821,000	-0.49	0.2		38.5	21.2	14.2		
E37000017	Hertfordshire	6,780,000	-0.49	0.2		10.8	-2.8	14.0		
E37000009	Dorset	3,879,000	-0.51	0.1		16.9	41.2	-17.2		
E37000036	The Marches	2,208,000	-0.52	0.1		-13.5	-19.0	6.8		
E37000034	Tees Valley	1,662,000	-0.52	0.0		-29.7	-13.1	-19.0		
E37000001	Black Country	925,000	-0.52	0.0		-32.6	-42.5	17.3		
E37000038	Worcestershire	907,000	-0.52	0.0		-6.1	-24.7	24.6		
E37000003	Cheshire and Warrington	679,000	-0.52	0.0		-6.3	18.7	-21.1		
E37000011	Gloucestershire	596,000	-0.52	0.0		-9.1	-11.6	2.7		
E37000007	Cumbria	495,000	-0.52	0.0		82.7	43.9	26.9		
E37000005	Cornwall and Isles of Scilly	390,000	-0.52	0.0		-12.8	-15.4	3.1		
E37000002	Buckinghamshire Thames Valley	324,000	-0.53	0.0		-61.2	-29.7	-44.8		
E37000033	Swindon and Wiltshire	0	-0.53	0.0						

Source: HESA. Research grants and contracts - breakdown by source of income and HESA cost centre. Available at: <https://www.hesa.ac.uk/data-and-analysis/finances/table-5> and <https://www.hesa.ac.uk/data-and-analysis/finances/table-7>

Table 72: Value of grant funding in international programmes (£), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	1,204,459,000				11.1	5.9	4.9		
E37000023	London	389,380,000	5.22	32.3		7.0	0.8	6.1		
E37000027	Oxfordshire	164,548,000	1.93	13.7		4.1	1.4	2.7		
E37000042	Greater Cambridge and Greater Peterborough	125,878,000	1.37	10.5		25.4	18.7	5.6		
E37000015	Greater Manchester	64,636,000	0.48	5.4		60.4	43.5	11.8		
E37000022	Liverpool City Region	50,934,000	0.28	4.2		26.8	-2.7	30.4		
E37000020	Leeds City Region	42,983,000	0.16	3.6		0.0	1.2	-1.2		
E37000012	Greater Birmingham and Solihull	38,107,000	0.09	3.2		15.6	7.9	7.1		
E37000037	West of England	37,458,000	0.08	3.1		16.2	14.9	1.1		
E37000025	North East	34,162,000	0.03	2.8		-4.7	-4.2	-0.6		
E37000040	Sheffield City Region	32,471,000	0.01	2.7		-13.5	16.5	-25.7		
E37000029	Solent	30,221,000	-0.03	2.5		19.9	11.5	7.5		
E37000006	Coventry and Warwickshire	27,627,000	-0.06	2.3		19.0	-1.3	20.6		
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	26,662,000	-0.08	2.2		-13.2	6.8	-18.8		
E37000016	Heart of the South West	24,228,000	-0.11	2.0		38.2	11.3	24.1		
E37000021	Leicester and Leicestershire	15,853,000	-0.24	1.3		0.2	-1.9	2.1		
E37000010	Enterprise M3	15,770,000	-0.24	1.3		-9.4	-2.0	-7.6		
E37000041	South East Midlands	15,391,000	-0.24	1.3		51.8	13.0	34.4		
E37000039	York, North Yorkshire and East Riding	13,324,000	-0.27	1.1		-1.7	2.9	-4.5		
E37000030	South East	12,399,000	-0.29	1.0		33.9	7.6	24.5		
E37000004	Coast to Capital	10,176,000	-0.32	0.8		-6.9	-10.0	3.5		
E37000024	New Anglia	9,011,000	-0.34	0.7		28.5	3.9	23.7		
E37000035	Thames Valley Berkshire	8,363,000	-0.35	0.7		13.4	15.6	-1.8		
E37000019	Lancashire	7,754,000	-0.35	0.6		-23.9	3.8	-26.7		
E37000017	Hertfordshire	3,749,000	-0.41	0.3		14.0	-8.2	24.2		
E37000032	Stoke-on-Trent and Staffordshire	3,353,000	-0.42	0.3		1.9	-8.5	11.5		
E37000001	Black Country	3,279,000	-0.42	0.3		214.4	260.7	-12.8		
E37000018	Humber	2,495,000	-0.43	0.2		30.2	17.7	10.5		
E37000003	Cheshire and Warrington	1,843,000	-0.44	0.2		119.7	414.8	-57.3		
E37000014	Greater Lincolnshire	1,645,000	-0.44	0.1		25.1	-28.3	74.5		
E37000009	Dorset	1,329,000	-0.45	0.1		-0.1	2.9	-2.9		
E37000011	Gloucestershire	913,000	-0.45	0.1		12.7	15.1	-2.1		
E37000034	Tees Valley	684,000	-0.46	0.1		16.1	14.8	1.2		
E37000036	The Marches	538,000	-0.46	0.0		7.0	31.9	-18.9		
E37000005	Cornwall and Isles of Scilly	528,000	-0.46	0.0		1,408.6	76.6	754.3		
E37000038	Worcestershire	120,000	-0.47	0.0		100.0	-29.0	181.7		
E37000002	Buckinghamshire Thames Valley	65,000	-0.47	0.0		-79.4	-87.2	61.6		
E37000007	Cumbria	33,000	-0.47	0.0		-3,400.0	450.0	-700.0		
E37000033	Swindon and Wiltshire	0	-0.47	0.0						

Source: HESA. Research grants and contracts - breakdown by source of income and HESA cost centre. Available at: <https://www.hesa.ac.uk/data-and-analysis/finances/table-5>

Science and Technology assets

Science and technology organisations and assets play an important role as the main actor in research activity. For datasets reported at the level of organisation, it is important to have a methodology for establishing the link between these and the geographies which they sit on. For example, all open HESA datasets in this report are reported at the level of UK Higher Education Institutions. For the purposes of indicator and data collection, we have used two open resources to link UK HEI identifiers (UKPRNs) to their geographical areas:

- **GRID (Global Research Identifier Database)**, published by Digital Science and available at <https://grid.ac/>
- **The UK Register of Learning Providers**, available at <http://learning-provider.data.ac.uk/>

Overview of S&T assets (non-comprehensive)

The table below provides a count of the number of research-active organisations in each geography, catalogued by the open source dataset GRID. This number of organisations is inclusive of education, healthcare, nonprofit, research facilities, government and private sector organisations (companies) undertaking research. However, this dataset is not meant to be all-inclusive, and counts of institutions are not meant to be a proxy for research strength. The reason for using this dataset is to use the underlying information on organisation location to link other datasets that are reported at institution level.

The underlying GRID data on the location of organisations has been further curated by Technopolis, using Google Maps data to allow for specific UK institutions to be linked to specific LADs and LEAs via their postcodes. The accompanying datasets provide organisation lists and organisation counts by organisation type that can be useful for further analysis.

Table 73: Number of research organisations and facilities (nr of organisations), 2018

geo code	geo name	Indicator		
		value	Zscore	%parent
E92000001	England	4,211		
E37000023	London	1,478	5.87	35.1
E37000042	Greater Cambridge and Greater Peterborough	228	0.48	5.4
E37000020	Leeds City Region	169	0.22	4.0
E37000027	Oxfordshire	161	0.19	3.8
E37000010	Enterprise M3	142	0.11	3.4
E37000015	Greater Manchester	137	0.09	3.3
E37000030	South East	136	0.08	3.2
E37000025	North East	120	0.01	2.8
E37000037	West of England	119	0.01	2.8
E37000004	Coast to Capital	114	-0.01	2.7
E37000012	Greater Birmingham and Solihull	112	-0.02	2.7
E37000041	South East Midlands	111	-0.03	2.6
E37000029	Solent	106	-0.05	2.5
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	97	-0.09	2.3
E37000017	Hertfordshire	97	-0.09	2.3
E37000022	Liverpool City Region	89	-0.12	2.1
E37000035	Thames Valley Berkshire	89	-0.12	2.1
E37000040	Sheffield City Region	84	-0.14	2.0
E37000024	New Anglia	79	-0.16	1.9
E37000039	York, North Yorkshire and East Riding	72	-0.19	1.7
E37000016	Heart of the South West	71	-0.20	1.7
E37000021	Leicester and Leicestershire	63	-0.23	1.5
E37000006	Coventry and Warwickshire	60	-0.25	1.4
E37000003	Cheshire and Warrington	56	-0.26	1.3
E37000033	Swindon and Wiltshire	54	-0.27	1.3
E37000032	Stoke-on-Trent and Staffordshire	43	-0.32	1.0
E37000002	Buckinghamshire Thames Valley	41	-0.33	1.0

Table 73: Number of research organisations and facilities (nr of organisations), 2018 (*continued*)

geo code	geo name	value	Z score	% _{parent}
E37000019	Lancashire	41	-0.33	1.0
E37000011	Gloucestershire	39	-0.34	0.9
E37000001	Black Country	31	-0.37	0.7
E37000036	The Marches	31	-0.37	0.7
E37000009	Dorset	29	-0.38	0.7
E37000014	Greater Lincolnshire	29	-0.38	0.7
E37000034	Tees Valley	26	-0.39	0.6
E37000018	Humber	24	-0.40	0.6
E37000038	Worcestershire	24	-0.40	0.6
E37000005	Cornwall and Isles of Scilly	22	-0.41	0.5
E37000007	Cumbria	22	-0.41	0.5

Source:

GRID Global Research Identifier Database. Available at: <https://grid.ac/>

Intellectual capital

Researcher population

Table 74: Staff in Higher Education Institutions (researchers), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	303,750				4.7	2.5	2.2	2.1	
E37000023	London	65,695	5.27	21.6		4.3	2.4	1.9	1.7	
E37000020	Leeds City Region	18,640	0.96	6.1		4.6	2.2	2.4	2.3	
E37000015	Greater Manchester	17,060	0.82	5.6		3.2	0.8	2.4	3.5	
E37000027	Oxfordshire	14,885	0.62	4.9		2.8	1.6	1.1	2.7	
E37000025	North East	13,715	0.51	4.5		0.3	1.0	-0.7	0.3	
E37000037	West of England	13,385	0.48	4.4		9.1	5.2	3.7	4.0	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	12,890	0.43	4.2		5.8	1.7	4.1	2.5	
E37000012	Greater Birmingham and Solihull	12,295	0.38	4.0		11.3	7.6	3.4	2.3	
E37000042	Greater Cambridge and Greater Peterborough	11,010	0.26	3.6		6.8	3.8	2.9	3.3	
E37000029	Solent	10,865	0.25	3.6		0.2	-1.6	1.9	1.3	
E37000040	Sheffield City Region	10,295	0.20	3.4		0.9	0.6	0.3	3.0	
E37000041	South East Midlands	9,855	0.16	3.2		0.4	-0.8	1.1	-3.1	
E37000006	Coventry and Warwickshire	9,745	0.15	3.2		11.7	6.0	5.4	4.5	
E37000030	South East	9,555	0.13	3.1		2.9	2.2	0.6	1.1	
E37000022	Liverpool City Region	9,175	0.09	3.0		8.6	3.9	4.6	3.9	
E37000021	Leicester and Leicestershire	8,965	0.07	3.0		4.7	2.7	2.0	3.0	
E37000016	Heart of the South West	7,710	-0.04	2.5		6.9	2.5	4.3	-0.1	
E37000019	Lancashire	7,230	-0.08	2.4		7.5	5.5	1.9	4.2	
E37000010	Enterprise M3	6,060	-0.19	2.0		8.1	3.9	4.1	0.3	
E37000004	Coast to Capital	5,640	-0.23	1.9		6.0	2.0	3.9	3.8	
E37000039	York, North Yorkshire and East Riding	4,500	-0.33	1.5		7.0	5.4	1.5	1.2	
E37000024	New Anglia	3,920	-0.39	1.3		5.9	0.9	5.0	5.0	
E37000035	Thames Valley Berkshire	3,305	-0.44	1.1		6.6	3.8	2.7	4.4	
E37000032	Stoke-on-Trent and Staffordshire	3,160	-0.46	1.0		1.4	-1.6	3.0	-2.0	
E37000017	Hertfordshire	2,605	-0.51	0.9		1.8	4.8	-2.9	2.2	
E37000018	Humber	2,350	-0.53	0.8		4.9	11.6	-6.0	0.9	
E37000001	Black Country	2,190	-0.55	0.7		3.1	0.5	2.6	1.9	
E37000009	Dorset	2,185	-0.55	0.7		10.1	8.4	1.5	5.6	
E37000014	Greater Lincolnshire	1,995	-0.56	0.7		16.3	6.7	9.0	5.5	
E37000003	Cheshire and Warrington	1,830	-0.58	0.6		-6.2	0.5	-6.7	4.8	
E37000034	Tees Valley	1,665	-0.59	0.5		-3.5	-3.2	-0.3	1.8	
E37000002	Buckinghamshire Thames Valley	1,165	-0.64	0.4		-1.3	-2.1	0.8	-2.5	
E37000038	Worcestershire	1,125	-0.64	0.4		3.2	0.0	3.2	5.8	
E37000011	Gloucestershire	1,120	-0.64	0.4		4.7	3.2	1.4	0.0	
E37000007	Cumbria	805	-0.67	0.3		-12.0	-8.5	-3.8	-3.2	
E37000005	Cornwall and Isles of Scilly	520	-0.70	0.2		6.1	1.0	5.1	3.2	
E37000036	The Marches	490	-0.70	0.2		4.3	5.4	-1.1	3.3	
E37000033	Swindon and Wiltshire	0	-0.75	0.0						

Source: HESA. Detailed tables (Staff). Available at: <https://www.hesa.ac.uk/data-and-analysis/staff/table-11>

Table 75: Proportion of the workforce employed in SOC2010 codes 21 (Science, Engineering and Technology Professionals) or 31 (Science, Engineering and Technology Associate Professionals)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	7.8			9.9	5.4	5.4	0.0	2.8	1.4
E37000027	Oxfordshire	14.2	3.43	182.1	-1.4	6.0	51.1	-29.9	-2.2	-4.9
E37000035	Thames Valley Berkshire	13.1	2.86	167.9	0.8	-10.3	5.6	-15.1	7.4	4.6
E37000010	Enterprise M3	10.2	1.34	130.8	6.2	-9.7	-5.6	-4.4	1.8	15.6
E37000042	Greater Cambridge and Greater Peterborough	10.1	1.29	129.5	14.8	1.0	12.2	-10.0	5.3	8.0
E37000037	West of England	9.4	0.93	120.5	-5.1	3.3	-2.1	5.5	1.1	-9.1
E37000006	Coventry and Warwickshire	9.2	0.82	117.9	12.2	-1.1	5.7	-6.5	0.0	13.4
E37000003	Cheshire and Warrington	9.0	0.72	115.4	2.3	15.4	4.7	10.3	-3.7	-8.0
E37000004	Coast to Capital	8.8	0.62	112.8	23.9	2.3	0.0	2.3	21.1	0.0
E37000041	South East Midlands	8.8	0.62	112.8	17.3	1.1	7.3	-5.7	19.2	-2.7
E37000023	London	8.6	0.51	110.3	13.2	7.5	11.7	-3.8	6.7	-1.3
E37000011	Gloucestershire	8.3	0.36	106.4	-8.8	-1.2	-8.8	8.3	18.3	-22.0
E37000029	Solent	8.3	0.36	106.4	1.2	13.7	-1.2	15.1	0.0	-11.0
E37000002	Buckinghamshire Thames Valley	8.1	0.25	103.8	-14.7	-5.8	-8.0	2.3	2.4	-11.6
E37000017	Hertfordshire	8.1	0.25	103.8	-4.7	-9.0	-6.9	-2.2	20.3	-12.9
E37000012	Greater Birmingham and Solihull	7.4	-0.11	94.9	12.1	12.1	15.6	-3.0	10.0	-9.1
E37000032	Stoke-on-Trent and Staffordshire	7.2	-0.22	92.3	26.3	41.2	22.0	15.7	-5.6	-5.3
E37000021	Leicester and Leicestershire	7.1	-0.27	91.0	1.4	-7.8	-12.3	5.2	-9.4	21.4
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	7.0	-0.32	89.7	4.5	2.9	-2.8	5.9	-18.1	23.9
E37000019	Lancashire	6.9	-0.37	88.5	27.8	43.8	23.2	16.7	-9.4	-1.9
E37000040	Sheffield City Region	6.9	-0.37	88.5	23.2	27.8	0.0	27.8	-8.5	5.4
E37000015	Greater Manchester	6.8	-0.43	87.2	7.9	3.0	7.9	-4.5	0.0	4.8
E37000030	South East	6.7	-0.48	85.9	9.8	15.5	9.8	5.2	-10.8	6.6
E37000024	New Anglia	6.6	-0.53	84.6	15.8	-2.9	0.0	-2.9	9.7	8.8
E37000009	Dorset	6.5	-0.58	83.3	0.0	4.8	1.6	3.2	-10.1	6.2
E37000020	Leeds City Region	6.5	-0.58	83.3	16.1	1.6	8.3	-6.2	10.3	3.6
E37000033	Swindon and Wiltshire	6.5	-0.58	83.3	-30.9	-24.4	-14.5	-11.6	-4.4	-4.3
E37000036	The Marches	6.5	-0.58	83.3	1.6	10.2	-4.4	15.3	3.5	-10.9
E37000018	Humber	6.4	-0.63	82.1	28.0	6.7	4.9	1.7	11.1	8.0
E37000022	Liverpool City Region	6.4	-0.63	82.1	4.9	4.9	3.2	1.6	-12.9	14.8
E37000007	Cumbria	6.3	-0.69	80.8	-3.1	-6.0	-3.1	-3.0	19.6	-13.8
E37000034	Tees Valley	6.3	-0.69	80.8	0.0	-8.7	-4.5	-4.3	16.9	-6.3
E37000039	York, North Yorkshire and East Riding	6.3	-0.69	80.8	6.8	-1.6	3.3	-4.7	18.5	-8.5
E37000016	Heart of the South West	6.2	-0.74	79.5	5.1	12.7	6.9	5.5	-19.1	15.3
E37000025	North East	6.1	-0.79	78.2	0.0	0.0	0.0	0.0	0.0	0.0
E37000038	Worcestershire	6.0	-0.84	76.9	-25.0	-25.9	-9.1	-18.5	28.6	-21.2
E37000005	Cornwall and Isles of Scilly	5.9	-0.90	75.6	11.3	1.7	40.5	-27.6	52.6	-28.3
E37000001	Black Country	5.5	-1.10	70.5	12.2	12.2	0.0	12.2	0.0	0.0
E37000014	Greater Lincolnshire	5.3	-1.21	67.9	1.9	6.0	1.9	4.0	13.6	-15.4

Source: NOMIS. Annual Population survey - Occupation (SOC2010) sub-major group of employment. Available at: <https://www.nomisweb.co.uk/>

Intellectual property

Intellectual property: Disclosures and patents filed by or on behalf of the HE provider by HE provider, type of disclosure or patent and academic year. Cumulative number of patents in portfolio of HE Institutions.

Table 76: Cumulative patent portfolio of HE institutions (number), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	16,454				4.2	-0.8	5.0	4.7	
E37000023	London	5,906	4.98	35.9		14.6	3.1	11.2	-6.0	
E37000027	Oxfordshire	3,662	2.94	22.3		7.7	11.3	-3.2	15.1	
E37000042	Greater Cambridge and Greater Peterborough	922	0.44	5.6		-29.1	-40.9	19.9	-6.8	
E37000020	Leeds City Region	732	0.27	4.4		12.1	3.8	8.0	0.2	
E37000015	Greater Manchester	693	0.23	4.2		2.5	4.5	-1.9	90.4	
E37000021	Leicester and Leicestershire	684	0.22	4.2		32.3	-3.3	36.8	2.4	
E37000012	Greater Birmingham and Solihull	573	0.12	3.5		19.1	11.7	6.7	3.4	
E37000025	North East	371	-0.06	2.3		-10.2	3.6	-13.3	13.2	
E37000029	Solent	358	-0.07	2.2		-23.2	3.8	-26.0	4.7	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	355	-0.08	2.2		-15.1	-21.5	8.1	31.0	
E37000040	Sheffield City Region	352	-0.08	2.1		-12.0	3.8	-15.2	7.2	
E37000022	Liverpool City Region	318	-0.11	1.9		12.4	11.2	1.1	2.9	
E37000037	West of England	268	-0.15	1.6		-25.1	-8.2	-18.4	16.2	
E37000039	York, North Yorkshire and East Riding	177	-0.24	1.1		7.3	0.6	6.7	63.4	
E37000010	Enterprise M3	157	-0.26	1.0		-1.3	-13.7	14.5	21.4	
E37000016	Heart of the South West	150	-0.26	0.9		11.9	13.6	-1.5	7.2	
E37000006	Coventry and Warwickshire	146	-0.27	0.9		3.5	-2.7	6.4	38.2	
E37000019	Lancashire	141	-0.27	0.9		6.0	8.5	-2.3	13.7	
E37000024	New Anglia	116	-0.29	0.7		103.5	19.6	70.2	54.1	
E37000004	Coast to Capital	102	-0.31	0.6		-18.4	-12.8	-6.4	-7.4	
E37000018	Humber	100	-0.31	0.6		-47.9	-53.9	13.0	2.7	
E37000030	South East	97	-0.31	0.6		32.9	18.3	12.3	2.8	
E37000041	South East Midlands	70	-0.34	0.4		-30.7	-21.3	-11.9	-25.2	
E37000035	Thames Valley Berkshire	44	-0.36	0.3		12.8	0.0	12.8	129.4	
E37000014	Greater Lincolnshire	42	-0.36	0.3		23.5	13.5	8.8	240.0	
E37000032	Stoke-on-Trent and Staffordshire	30	-0.37	0.2		-41.2	-9.1	-35.3	-31.1	
E37000001	Black Country	27	-0.37	0.2		125.0	80.0	25.0	9.1	
E37000017	Hertfordshire	16	-0.38	0.1		128.6	77.8	28.6	-61.1	
E37000009	Dorset	13	-0.39	0.1		160.0	116.7	20.0	0.0	
E37000034	Tees Valley	8	-0.39	0.0		-42.9	14.3	-50.0	27.3	
E37000005	Cornwall and Isles of Scilly	1	-0.40	0.0						
E37000002	Buckinghamshire Thames Valley	0	-0.40	0.0						
E37000003	Cheshire and Warrington	0	-0.40	0.0						
E37000007	Cumbria	0	-0.40	0.0						
E37000011	Gloucestershire	0	-0.40	0.0						
E37000033	Swindon and Wiltshire	0	-0.40	0.0						
E37000036	The Marches	0	-0.40	0.0		-100.0	-100.0	0.0	0.0	
E37000038	Worcestershire	0	-0.40	0.0						

Source: HESA. HEB-CI Higher Education Community Interaction Survey. Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-4a>

Intellectual property income including patents, copyright, design, registration and trade marks) by HE provider, type of organisation, income source and academic year.

Table 77: Intellectual property income (£), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	142,910,000				17.4	57.1	-25.3	41.2	
E37000027	Oxfordshire	56,257,000	4.48	39.4		471.0	421.5	9.5	-43.3	
E37000023	London	45,437,000	3.55	31.8		-39.9	15.6	-48.0	99.6	
E37000040	Sheffield City Region	12,381,000	0.73	8.7		486.8	156.3	128.9	40.0	
E37000042	Greater Cambridge and Greater Peterborough	8,103,000	0.36	5.7		-35.5	-47.4	22.7	33.2	
E37000041	South East Midlands	3,960,000	0.01	2.8		6.9	-9.4	18.0	-8.5	
E37000015	Greater Manchester	2,691,000	-0.10	1.9		-27.3	103.6	-64.3	112.3	
E37000020	Leeds City Region	2,174,000	-0.15	1.5		9.3	4.3	4.8	-17.8	
E37000025	North East	1,835,000	-0.18	1.3		158.8	46.2	77.0	-25.3	
E37000037	West of England	1,292,000	-0.22	0.9		41.4	16.1	21.8	-24.3	
E37000039	York, North Yorkshire and East Riding	1,252,000	-0.23	0.9		14.7	11.9	2.5	-1.3	
E37000021	Leicester and Leicestershire	1,251,000	-0.23	0.9		-56.6	-43.1	-23.7	-23.5	
E37000022	Liverpool City Region	1,003,000	-0.25	0.7		74.4	46.6	19.0	39.6	
E37000029	Solent	1,001,000	-0.25	0.7		-14.2	-21.1	8.7	79.0	
E37000024	New Anglia	921,000	-0.25	0.6		-40.1	-42.6	4.4	310.1	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	814,000	-0.26	0.6		18.5	-3.7	23.0	-23.6	
E37000010	Enterprise M3	770,000	-0.27	0.5		22.0	13.7	7.3	-7.3	
E37000012	Greater Birmingham and Solihull	745,000	-0.27	0.5		-0.8	-26.3	34.6	-16.1	
E37000018	Humber	657,000	-0.28	0.5		22.1	25.1	-2.4	27.2	
E37000036	The Marches	509,000	-0.29	0.4		-13.4	-6.1	-7.8		
E37000016	Heart of the South West	240,000	-0.31	0.2		-18.6	11.6	-27.1	43.9	
E37000019	Lancashire	198,000	-0.32	0.1		-35.5	-6.6	-30.9	16.3	
E37000006	Coventry and Warwickshire	194,000	-0.32	0.1		52.8	4.3	46.5	-65.2	
E37000032	Stoke-on-Trent and Staffordshire	147,000	-0.32	0.1		297.3	133.3	70.3	-68.4	
E37000030	South East	87,000	-0.33	0.1		-42.0	31.8	-56.0	-5.7	
E37000017	Hertfordshire	80,000	-0.33	0.1		110.5	8.1	94.7	65.2	
E37000004	Coast to Capital	64,000	-0.33	0.0		-60.7	-66.0	15.3	-28.2	
E37000035	Thames Valley Berkshire	48,000	-0.33	0.0		-22.6	-35.1	19.4	14.8	
E37000034	Tees Valley	19,000	-0.33	0.0						
E37000009	Dorset	16,000	-0.33	0.0		-74.2	33.3	-80.6	5.1	
E37000002	Buckinghamshire Thames Valley	15,000	-0.33	0.0		-57.1	-62.5	14.3	0.0	
E37000011	Gloucestershire	1,000	-0.33	0.0		-50.0		-100.0		
E37000001	Black Country	0	-0.33	0.0		-100.0	-100.0	0.0	-93.8	
E37000003	Cheshire and Warrington	0	-0.33	0.0		-100.0	-100.0	0.0		
E37000005	Cornwall and Isles of Scilly	0	-0.33	0.0						
E37000007	Cumbria	0	-0.33	0.0		-100.0	-100.0	-70.6	142.9	
E37000014	Greater Lincolnshire	0	-0.33	0.0					-100.0	
E37000038	Worcestershire	0	-0.33	0.0						
E37000033	Swindon and Wiltshire									

Source: HESA. HEB-CI Higher Education Community Interaction Survey. Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-4c>

Knowledge exchange / diffusion

Income from contract research

Income of the HE Institution performing contract research. The location is that of the HE Institution performing the contract, not that of the company that may have contracted the research.

Table 78: Income from contract research (£), 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	1,161,159,000				6.3	2.6	3.6	4.3	
E37000023	London	275,452,000	4.57	23.7		-10.6	-10.2	-0.5	3.0	
E37000027	Oxfordshire	179,910,000	2.78	15.5		6.2	1.9	4.2	18.5	
E37000015	Greater Manchester	79,190,000	0.90	6.8		18.4	22.8	-3.6	8.1	
E37000020	Leeds City Region	77,699,000	0.87	6.7		14.0	4.2	9.4	-12.5	
E37000040	Sheffield City Region	65,540,000	0.65	5.6		60.3	15.8	38.4	-4.8	
E37000037	West of England	64,955,000	0.63	5.6		18.1	9.9	7.5	15.1	
E37000012	Greater Birmingham and Solihull	62,132,000	0.58	5.4		18.4	18.5	-0.1	15.1	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	45,519,000	0.27	3.9		33.5	23.4	8.2	35.2	
E37000025	North East	38,173,000	0.13	3.3		-6.9	-6.0	-0.9	4.9	
E37000029	Solent	33,479,000	0.05	2.9		16.4	11.8	4.1	8.2	
E37000042	Greater Cambridge and Greater Peterborough	30,766,000	0.00	2.6		-6.7	-9.0	2.6	-0.6	
E37000006	Coventry and Warwickshire	26,598,000	-0.08	2.3		-3.3	-8.1	5.3	-17.4	
E37000022	Liverpool City Region	24,921,000	-0.11	2.1		13.0	27.9	-11.6	-9.1	
E37000021	Leicester and Leicestershire	23,679,000	-0.14	2.0		-8.6	-9.9	1.5	3.7	
E37000016	Heart of the South West	20,626,000	-0.19	1.8		24.7	20.1	3.8	-27.7	
E37000030	South East	18,919,000	-0.23	1.6		7.0	13.5	-5.7	1.9	
E37000039	York, North Yorkshire and East Riding	17,032,000	-0.26	1.5		6.0	-3.3	9.6	-4.6	
E37000010	Enterprise M3	15,937,000	-0.28	1.4		23.3	6.9	15.4	3.3	
E37000004	Coast to Capital	15,119,000	-0.30	1.3		5.3	3.3	1.9	9.9	
E37000041	South East Midlands	14,414,000	-0.31	1.2		16.5	5.9	10.0	-13.2	
E37000019	Lancashire	11,462,000	-0.37	1.0		10.9	8.1	2.6	16.2	
E37000035	Thames Valley Berkshire	8,706,000	-0.42	0.8		23.4	4.1	18.5	8.2	
E37000017	Hertfordshire	6,514,000	-0.46	0.6		0.7	-8.9	10.5	-5.3	
E37000014	Greater Lincolnshire	5,551,000	-0.48	0.5		38.8	8.0	28.6	55.5	
E37000018	Humber	3,043,000	-0.52	0.3		-32.5	-34.0	2.2	-18.7	
E37000024	New Anglia	2,619,000	-0.53	0.2		8.4	-19.8	35.0	-15.6	
E37000003	Cheshire and Warrington	2,244,000	-0.54	0.2		43.6	352.4	-68.3	52.0	
E37000032	Stoke-on-Trent and Staffordshire	2,231,000	-0.54	0.2		-12.7	-20.2	9.5	-3.9	
E37000001	Black Country	1,665,000	-0.55	0.1		232.3	221.4	3.4	114.1	
E37000009	Dorset	1,193,000	-0.56	0.1		-27.6	12.8	-35.8	77.8	
E37000036	The Marches	1,178,000	-0.56	0.1		-4.6	-27.0	30.6	-12.2	
E37000011	Gloucestershire	600,000	-0.57	0.1		17.6	19.0	-1.2	11.6	
E37000034	Tees Valley	566,000	-0.57	0.0		-50.0	-38.9	-18.2	41.7	
E37000038	Worcestershire	331,000	-0.57	0.0		-29.7	-47.8	34.6	-2.1	
E37000007	Cumbria	277,000	-0.57	0.0		93.7	23.1	57.3	-24.7	
E37000002	Buckinghamshire Thames Valley	242,000	-0.58	0.0		-67.2	-48.5	-36.3	-39.3	
E37000005	Cornwall and Isles of Scilly	0	-0.58	0.0		-100.0	-100.0	-82.4	-61.4	
E37000033	Swindon and Wiltshire	0	-0.58	0.0						

Source: HESA. Business and community services by HE provider, type of organisation, type of service and academic year. Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-2a>

Number of active spinoffs

Table 79: Number of active firms, all categories of spin-offs (number of firms)

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	12,758				15.6	7.6	7.5	2.6	
E37000023	London	2,843	4.95	22.3		17.3	6.0	10.7	0.7	
E37000029	Solent	1,188	1.67	9.3		41.4	29.7	9.0	7.6	
E37000019	Lancashire	1,052	1.40	8.2		-0.5	-2.4	2.0	-0.4	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	725	0.75	5.7		40.0	1.4	38.0	3.2	
E37000041	South East Midlands	625	0.55	4.9		-8.1	-3.8	-4.4	-2.2	
E37000015	Greater Manchester	504	0.31	4.0		16.1	4.1	11.5	-7.3	
E37000025	North East	495	0.29	3.9		11.2	6.2	4.7	3.0	
E37000020	Leeds City Region	456	0.22	3.6		-1.5	-7.5	6.5	5.0	
E37000012	Greater Birmingham and Solihull	416	0.14	3.3		61.9	45.5	11.3	-26.8	
E37000037	West of England	383	0.07	3.0		99.5	21.6	64.1	-21.3	
E37000021	Leicester and Leicestershire	360	0.03	2.8		-13.0	0.8	-13.8	3.2	
E37000022	Liverpool City Region	345	0.00	2.7		-4.4	-4.4	0.0	7.8	
E37000032	Stoke-on-Trent and Staffordshire	332	-0.03	2.6		38.9	13.7	22.2	40.6	
E37000040	Sheffield City Region	311	-0.07	2.4		51.0	45.3	3.9	16.4	
E37000034	Tees Valley	299	-0.09	2.3		-11.0	1.7	-12.5	6.0	
E37000010	Enterprise M3	295	-0.10	2.3		4.2	-4.8	9.5	11.4	
E37000027	Oxfordshire	291	-0.11	2.3		17.3	-0.7	18.1	17.0	
E37000042	Greater Cambridge and Greater Peterborough	235	-0.22	1.8		55.6	18.1	31.8	15.3	
E37000005	Cornwall and Isles of Scilly	216	-0.26	1.7		0.9	0.9	0.0	-0.9	
E37000024	New Anglia	209	-0.27	1.6		9.4	-10.3	22.0	-4.5	
E37000006	Coventry and Warwickshire	202	-0.29	1.6		-33.6	90.6	-65.1	21.1	
E37000030	South East	186	-0.32	1.5		118.8	24.0	76.5	34.9	
E37000016	Heart of the South West	185	-0.32	1.4		31.2	17.1	12.1	7.6	
E37000017	Hertfordshire	151	-0.39	1.2		135.9	71.6	37.5	-13.5	
E37000014	Greater Lincolnshire	138	-0.41	1.1		21.1	-7.4	30.7	111.1	
E37000007	Cumbria	87	-0.51	0.7		102.3	33.8	51.2	22.9	
E37000018	Humber	85	-0.52	0.7		-5.6	9.0	-13.3	45.2	
E37000004	Coast to Capital	63	-0.56	0.5		-18.2	-6.0	-13.0	13.2	
E37000039	York, North Yorkshire and East Riding	37	-0.61	0.3		-5.1	19.4	-20.5	44.4	
E37000011	Gloucestershire	33	-0.62	0.3		10.0	43.5	-23.3	-11.8	
E37000001	Black Country	24	-0.64	0.2		-69.2	-77.6	37.2	11.4	
E37000035	Thames Valley Berkshire	19	-0.65	0.1		533.3	375.0	33.3	0.0	
E37000038	Worcestershire	19	-0.65	0.1		171.4	-17.4	228.6	133.3	
E37000009	Dorset	6	-0.68	0.0		-91.2	-14.3	-89.7	-51.4	
E37000002	Buckinghamshire Thames Valley	0	-0.69	0.0						
E37000003	Cheshire and Warrington	0	-0.69	0.0						
E37000036	The Marches	0	-0.69	0.0						

Source: HESA. Intellectual property: Spin-off activities by HE provider, type of activity, metric and academic year.
Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-4e>

Socio-cultural engagement activities delivered by HE Institutions

The table below shows attendees in social, community and cultural engagement carried out by HEIs. These include activities such as public lectures, exhibitions (galleries, museums, etc.), performance arts activities, and other similar knowledge diffusion activities.

Table 80: Social, community and cultural engagement carried out by HEIs. Total number of attendees, all events, 2017

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Zscore	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	1,026,930,101			73.7	73.9	-0.1	2.6		
E37000041	South East Midlands	782,591,104	5.84	76.2	147.2	122.2	11.2	-22.3		
E37000019	Lancashire	128,592,492	0.78	12.5	-2.7	0.0	-2.6	105.2		
E37000037	West of England	31,305,422	0.03	3.0	-7.6	-10.9	3.7	0.9		
E37000006	Coventry and Warwickshire	17,042,203	-0.08	1.7	446.4	128.5	139.1	137.3		
E37000015	Greater Manchester	16,906,437	-0.08	1.6	42.5	79.1	-20.4	45.7		
E37000004	Coast to Capital	12,470,728	-0.12	1.2	-37.1	-48.3	21.8	-28.9		
E37000042	Greater Cambridge and Greater Peterborough	11,523,432	-0.13	1.1	-19.6	1.0	-20.5	53.8		
E37000027	Oxfordshire	6,558,706	-0.16	0.6	-24.8	-9.0	-17.4	2.3		
E37000023	London	5,225,514	-0.17	0.5	-87.2	-3.7	-86.8	457.7		
E37000022	Liverpool City Region	4,912,863	-0.18	0.5	157.8	551.3	-60.4	31.4		
E37000024	New Anglia	2,433,471	-0.20	0.2	43.4	31.2	9.3	-0.5		
E37000025	North East	2,431,507	-0.20	0.2	49.7	68.8	-11.3	16.4		
E37000012	Greater Birmingham and Solihull	1,100,201	-0.21	0.1	52.4	2.3	48.9	24.4		
E37000020	Leeds City Region	803,267	-0.21	0.1	157.0	18.5	116.9	-21.6		
E37000010	Enterprise M3	746,025	-0.21	0.1	-52.4	-27.5	-34.3	229.2		
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	440,001	-0.21	0.0	9.6	-0.3	10.0	7.7		
E37000029	Solent	327,535	-0.21	0.0	-34.5	-36.3	2.9	71.5		
E37000030	South East	260,351	-0.21	0.0	43.6	13.9	26.1	-30.7		
E37000014	Greater Lincolnshire	207,198	-0.21	0.0	67.3	-3.2	72.8	10.5		
E37000021	Leicester and Leicestershire	156,482	-0.21	0.0	54.0	23.8	24.4	44.1		
E37000038	Worcestershire	128,717	-0.21	0.0	137.1	-30.5	241.0	20.2		
E37000016	Heart of the South West	123,663	-0.21	0.0	7.7	-4.7	13.0	6.6		
E37000009	Dorset	106,623	-0.21	0.0	41.4	1.7	39.0	-12.8		
E37000040	Sheffield City Region	104,296	-0.21	0.0	-19.5	19.1	-32.4	-7.5		
E37000018	Humber	99,689	-0.21	0.0	-2.5	-26.7	32.9	9.5		
E37000039	York, North Yorkshire and East Riding	81,751	-0.21	0.0	-44.3	-26.4	-24.3	-26.6		
E37000032	Stoke-on-Trent and Staffordshire	66,516	-0.21	0.0	40.6	-82.3	695.8	-16.8		
E37000011	Gloucestershire	62,697	-0.21	0.0	15.7	5.1	10.1	45.3		
E37000017	Hertfordshire	55,936	-0.21	0.0	-21.1	-25.2	5.5	-24.3		
E37000035	Thames Valley Berkshire	49,303	-0.21	0.0	6.4	-13.0	22.2	111.0		
E37000002	Buckinghamshire Thames Valley	36,693	-0.21	0.0	34.5	8.1	24.4	13.9		
E37000001	Black Country	33,556	-0.21	0.0	16.2	136.6	-50.9	76.9		
E37000007	Cumbria	25,721	-0.21	0.0	-4.8	18.3	-19.5	-90.1		
E37000005	Cornwall and Isles of Scilly	22,636	-0.21	0.0	142.2	46.2	65.7	-10.1		
E37000034	Tees Valley	13,837	-0.21	0.0	189.4	231.5	-12.7	-34.3		
E37000036	The Marches	9,672	-0.21	0.0	-32.0	50.3	-54.8	35.4		
E37000003	Cheshire and Warrington	6,468	-0.21	0.0	-32.7	-12.5	-23.1	-45.7		

Source: HESA. Social, community and cultural engagement: designated public events by HE provider, type of event, nature of event, metric and academic year. Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-5>

Regeneration funding is a way for HE providers to invest intellectual assets in economic, physical and socially beneficial projects. This table shows income from public bodies allocating regeneration funds to HE providers, so that they can be used to improve communities.

Table 81: Income from regeneration and development programmes

geo code	geo name	Indicator			%growth		%YoY growth			
		value	Z score	%parent	5yrs	3yrs	y-1	y-2	y-3	y-4
E92000001	England	165,589,000				32.1	20.3	9.8	-16.8	
E37000012	Greater Birmingham and Solihull	40,060,000	5.10	24.2		36.5	18.8	14.9	31.1	
E37000008	Derby, Derbyshire, Nottingham and Nottinghamshire	13,559,000	1.31	8.2		21.7	-12.9	39.6	66.4	
E37000021	Leicester and Leicestershire	10,757,000	0.91	6.5		54.9	41.8	9.2	-27.1	
E37000023	London	10,624,000	0.89	6.4		111.4	75.9	20.2	14.8	
E37000017	Hertfordshire	10,067,000	0.81	6.1		34.0	18.1	13.5	-38.4	
E37000016	Heart of the South West	9,470,000	0.72	5.7		12.1	-3.5	16.2	28.2	
E37000035	Thames Valley Berkshire	7,995,000	0.51	4.8						
E37000032	Stoke-on-Trent and Staffordshire	7,826,000	0.49	4.7		1,200.0	470.4	127.9	-14.7	
E37000019	Lancashire	6,087,000	0.24	3.7		-26.2	38.8	-46.8	-75.8	
E37000020	Leeds City Region	5,605,000	0.17	3.4		74.6	332.8	-59.7	-37.2	
E37000029	Solent	4,672,000	0.04	2.8		295.9	64.6	140.5	-80.5	
E37000030	South East	4,585,000	0.03	2.8		15.2	-7.8	24.9	-2.1	
E37000015	Greater Manchester	4,374,000	0.00	2.6		143.8	141.9	0.8	-7.6	
E37000022	Liverpool City Region	4,231,000	-0.03	2.6		363.9	101.3	130.5	-75.6	
E37000025	North East	3,649,000	-0.11	2.2		-44.2	-42.9	-2.2	237.0	
E37000037	West of England	3,438,000	-0.14	2.1		-68.1	-26.2	-56.8	105.2	
E37000001	Black Country	3,127,000	-0.18	1.9		-62.5	-75.9	55.4	28.6	
E37000006	Coventry and Warwickshire	2,856,000	-0.22	1.7		58.3	-25.9	113.5	-71.0	
E37000014	Greater Lincolnshire	1,983,000	-0.35	1.2		179.3	67.2	67.0	-14.5	
E37000039	York, North Yorkshire and East Riding	1,740,000	-0.38	1.1		-30.7	66.2	-58.3	-38.3	
E37000034	Tees Valley	1,619,000	-0.40	1.0		8.4	39.9	-22.6	-15.9	
E37000005	Cornwall and Isles of Scilly	1,403,000	-0.43	0.8		745.2	221.8	162.7	-87.0	
E37000041	South East Midlands	1,309,000	-0.44	0.8		83.3	2.4	79.0	-32.3	
E37000040	Sheffield City Region	1,293,000	-0.45	0.8		-16.9	-17.9	1.2	-36.6	
E37000010	Enterprise M3	802,000	-0.52	0.5		1.5	37.3	-26.1	7.0	
E37000011	Gloucestershire	693,000	-0.53	0.4		-60.3	-52.5	-16.5	88.3	
E37000018	Humber	678,000	-0.53	0.4		251.3	27.4	175.6	9.7	
E37000003	Cheshire and Warrington	582,000	-0.55	0.4		7.6	50.4	-28.5	-70.8	
E37000036	The Marches	548,000	-0.55	0.3			204.4			
E37000009	Dorset	547,000	-0.55	0.3		359.7	481.9	-21.0	-21.2	
E37000007	Cumbria	506,000	-0.56	0.3		1,197.4	272.1	248.7	-93.0	
E37000024	New Anglia	346,000	-0.58	0.2		-70.7	-40.0	-51.1	64.0	
E37000004	Coast to Capital	249,000	-0.60	0.2		344.6	186.2	55.4	-81.3	
E37000038	Worcestershire	194,000	-0.60	0.1		-20.5	-1.5	-19.3	106.8	
E37000002	Buckinghamshire Thames Valley	0	-0.63	0.0						
E37000027	Oxfordshire	0	-0.63	0.0		-100.0		-100.0		
E37000033	Swindon and Wiltshire	0	-0.63	0.0						
E37000042	Greater Cambridge and Greater Peterborough	0	-0.63	0.0		-100.0		-100.0	-68.5	

Source: HESA. Income from regeneration and development programmes by programme, HE provider and academic year. Available at: <https://www.hesa.ac.uk/data-and-analysis/providers/business-community/table-3>

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