Industry in Britain, full set of maps

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Industrial specialisation (employment LQ, Local authority)

**Definition:** The location quotient for industry “i” in region “r” is \( LQ_{ir} = \frac{E_{ir}}{E_r} \), where \( E_{ir} \) are employee jobs in industry i in region r, \( E_r \) is the total number of employee jobs in region r, \( E_i \) is total employee jobs in industry i and \( E \) is the national total of employee jobs.

**Source:** Employment data at the local authority level, BRES ONS. Data for 2015.

Click [here](#) for full description of SIC hierarchy

“Science and technology” and “creative” industries defined at 2 digit level (Nesta, 2015)
A: Agriculture, forestry, fishing

B: Mining and quarrying

C: Manufacturing

Employment LQs
Employment LQs

M: Prof, sci & technical
N: Administrative
O: Public admin
Industrial specialisation (firms LQ, Local authority)

**Definition:** The location quotient for industry “i” in region “r” is $LQ_{ir} = \frac{F_{ir}}{F_r}$, where $F_{ir}$ are firms in industry i in region r, $F_r$ is the total number of firms in region r, $F_i$ is total firms in industry i and $F$ is the national total number of firms.

**Source:** Local units data at the local authority level, IDBR, ONS. Data for 2016.

Click [here](#) for full description of SIC hierarchy

“Science and technology” and “creative” industries defined at 2 digit level (Nesta, 2015)
S: Other service
Plant size distribution

**Definition:**
Share of total local units in different size bands, at the local authority level.

**Source:** IDBR, ONS. Data for 2016.
Change in medium-sized Plant size
Business Demography

Definition:
Birth/death rates: Births or deaths divided by existing business population.
Survival rates: share of enterprises that survive for specified number of years after birth

Source: Source: ONS Business Demography
Birth rate (2015)

Birth rate (2010)

Demography
1 yr survival rate (2010 cohort)
3 yr survival rate (2010 cohort)

3 yr survival rate (2011 cohort)

Demography
5 yr survival rate (2010 cohort)
Regional Productivity

**Definition:** Productivity is calculated as GVA/hours worked, at the NUTS 3 region level

**Source:** UK data from ONS Regional and Subregional Productivity release (Jan 2017), German data from the federal states national accounts (VGRdL).
GVA/hour (DE avg=100)
Regional Innovation

**Definition:** Business R&D as a % of GDP, and Patents / million people aged 16+

**Source:**
Total intramural R&D expenditure (GERD) by sectors of performance and NUTS 2 regions for 2014. Eurostat.

Patent applications to the EPO by priority year by NUTS 3 regions for 2012 (latest year available). Eurostat.
Innovation

Business R&D/GDP

Patents/million 16+
Regional Exports

**Definition:** Value of exports per worker (£)

**Source:** Calculations based on HMRC regional goods exports database, ONS service trade experimental statistics, Business and Register Survey and input output tables.

**Notes:** The most granular level export statistics are currently released at the NUTS1 level. We model NUTS3 goods and service exports. For this, we use the existing regional HMRC goods exports statistics and the ONS experimental service exports statistics. Both are at NUTS1 level, splitting exports out by broad sectors. To meaningfully apportion regional exports to NUTS3 regions we obtain, at the two digit level, export intensities from the Input Output tables and employment figures, also at two digit level, for each of the NUTS3 regions. These are used as factors to allocate a share of regional exports to its respective NUTS3 regions.