

Collaboration between SMEs and universities — local population, growth and innovation metrics

Report to HEFCE by The Enterprise Research Centre (ERC)

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Executive Summary

- 1. This report provides a profile of small and medium-sized enterprises (SMEs) in the areas covered by the 39 Local Enterprise Partnerships (LEPs) in England. The profile covers:
 - The size and sectoral mix of SMEs in each LEP;
 - The concentration of SMEs in knowledge-intensive manufacturing, services and creative industries;
 - The recent performance and fast growth of SMEs in each LEP; and
 - A series of indicators of the extent of SME innovation in each LEP.
- 2. The aim of the report is to enable the Higher Education Funding Council for England (HEFCE) to understand more about the local geography of UK SMEs so that they can inform higher education institutions (HEIs) about the potential population of SMEs with which they might engage.
- 3. The analysis is based on two datasets: the Business Structures Database (BSD) which provides information on the size and sectoral composition of the SME population, and the UK Innovation Survey (UKIS) (2013) which provides information on the innovative activity of a sample of UK companies.
- 4. The metrics suggest there are significant variations in the population of SMEs across LEPs both in terms of their number, sectoral composition, productivity and technological intensity. The demand or potential for local SME engagement therefore also varies markedly between areas.
- 5. The size of the local SME population may provide an indication of the potential scale of engagement. The scope for related continuing professional development (CPD) activity may be greatest where SME productivity is higher or there are more mediumsized firms. Collaborative research or contract research is more likely where SMEs are clustered in high-technology sectors, knowledge-intensive business services or creative industries.
- 6. Start-up rates and SME growth also vary markedly between LEPs. Higher values on both measures suggest the vibrancy of local business providing new opportunities for HEI engagement and the potential for graduate employment. Fast growing, ambitious businesses may also be more likely to seek external support from HEIs and other support organisations.
- 7. Significant differences also exist in the propensity of SMEs to innovate across the LEPs. LEPs with higher product/service innovation also have higher process innovation. Innovation active SMEs are better able to identify and access HEI-based expertise as well as adapt and exploit knowledge gained. Indeed as this capability increases (absorptive capacity), the nature of HEI engagement is likely to move from being based on the uni-directional transfer of knowledge (e.g. consultancy) and towards more interactive forms of engagement such as collaborative research.

Section 1: Local SME metrics to inform HEIs

1.1 Introduction

This report contains a series of new metrics which provide a profile of small and medium-sized enterprises (SMEs) in the areas covered by the 39 Local Enterprise Partnerships (LEPs) in England. The aim of the report is to enable the Higher Education Funding Council for England (HEFCE) to understand more about the local geography of UK SMEs so that they can inform higher education institutions (HEIs) about the potential population of SMEs with which they might engage.

In particular we aim to provide an input into HEFCE's mapping activities by providing data and meta-data for a range of indicators profiling:

- The size and sectoral mix of SMEs in each LEP;
- The concentration of SMEs in knowledge-intensive manufacturing, services and creative industries;
- The recent performance and fast growth of SMEs in each LEP; and
- A series of indicators of the extent of SME innovation in each LEP.

For each indicator we also provide a brief note on the potential implications for the higher education sector.

1.2 Data sources

The metrics reported in subsequent sections are based on two main datasets both accessed via the Secure Data Service: the Business Structures Database (BSD) which provides information on the size and sectoral composition of the SME population, and the UK Innovation Survey (UKIS) which provides information on the innovative activity of a sample of UK companies. It is important to recognise the limitations of these data sources – particularly the UKIS – which (as the name implies) is a sample survey rather than covering all firms. This means metrics derived from these data are subject to potential sampling error, particularly as the original data sampling was structured by region rather than LEP area. We discuss each dataset in turn.

1.2.1 The Business Structure Database (BSD)

The BSD represents the business register for all firms registered for VAT and/or PAYE in the UK, and is essentially a collection of annual snapshots of the Inter-Departmental Business Register (IDBR), the administrative database of business records held by the Office of National Statistics (ONS). The BSD contains approximately two million records annually and represents the snapshot of the IDBR taken at a date in March. Data on the IDBR (and hence BSD) are sourced from the VAT and PAYE records of firms as well as from other ONS surveys and include mainly turnover and employment variables.

Two versions of the BSD are produced: one at firm level and one at local unit level. The firm-level version contains one record per firm and includes employment, turnover, birth, death, sector (Standard Industrial Classification (SIC) code), and postcode variables. Importantly, the postcode variable relates to the location of the firm's head office in the UK thus all of the firm's employment (and turnover) is recorded at this location in the database regardless of where the actual employment (or turnover) is located. This is not an issue for most firms in the UK as they are single-plant firms; however it becomes an issue for firms

with multiple locations, particularly if they are spread throughout the country. In these cases analysis at a geographical level becomes difficult.

The local unit version of the BSD solves this issue, in that it contains one record per local unit of the firm (otherwise known as a plant, industrial site or office). The postcode for each local unit represents its actual location so firms with multiple sites are represented on the database at each of the locations. Geographical analysis is more accurate using this version of the database as employment is recorded at its exact location. The local unit version of the BSD contains almost exactly the same variables as the firm level version, with one key exception, that of turnover, which is excluded. As a result any geographical analysis containing turnover data must be done using the firm-level version.

The Enterprise Research Centre (ERC) have put together the annual snapshots of the BSD to produce a longitudinal dataset covering the 1997-2014 period. The dataset is restricted to the private sector and includes employer enterprises only, that is, firms with at least one employee. Birth and death variables have also been re-created, with birth regarded as the first year in which a firm records an employee. It is this dataset which is used to develop metrics relating to the size and structure of the SME population in each LEP area.

1.2.2 The UK Innovation Survey (UKIS)

The UKIS is the main source of information on innovation within UK businesses, covering areas such as the extent of product, process and wider innovation; expenditure on innovations, drivers and barriers to innovation; and co-operation partners. The survey is the UK contribution to the EU Community Innovation Survey, undertaken by the ONS, and is based on a stratified random sample of 28,000 firms with ten or more employees, with sampling based on sector. The 2013 UKIS achieved a sample of 14,000 firms and covers the three-year period 2010-2012.

The UKIS is a sample survey and observations are therefore weighted for any analysis. For the metrics derived here we developed a new set of weights by LEP area (and based on the 2010 BSD) to ensure that innovation metrics reflect as accurately as possible the characteristics of businesses in each LEP. Weights for each LEP were developed to reflect three broad sectors (production industries, business services and other sectors) and the standard four enterprise size bands. It remains the case, however, that for some metrics and some of the smaller LEPs issues of disclosure arise due to the small number of respondents. Where these do arise they are indicated with asterisks in the tables.

1.3 Introducing the metrics

We report three groups of metrics in later sections of this report.

1.3.1 SME Population Metrics

Specific metrics are produced for each local economic area (LEA) to provide a detailed profile of their SMEs. Sectoral categories are defined using two-digit SICs. The SIC data will also be used to group firms by knowledge intensity: manufacturing firms will be divided into those involved in high, medium and low tech activity, and service sector firms into knowledge-intensive business services versus others. For manufacturing, the Organisation for Economic Co-operation and Development (OECD) have developed a standardised way of classifying manufacturing sectors by their research and development (R&D) intensity (See http://www.oecd.org/sti/ind/48350231.pdf for details):

- High-technology industries Aircraft and spacecraft; Pharmaceuticals; Office, accounting and computing machinery; Radio, TV and communications equipment; Medical, precision and optical instruments;
- **Medium-high-technology industries** Electrical machinery and apparatus not elsewhere classified (n.e.c).; Motor vehicles, trailers and semi-trailers; Chemicals excluding pharmaceuticals; Railroad equipment and transport equipment n.e.c.; Machinery and equipment n.e.c.;
- **Medium-low-technology industries** Building and repairing of ships and boats; Rubber and plastics products; Coke, refined petroleum products and nuclear fuel; Other non-metallic mineral products; Basic metals and fabricated metal products.;
- Low-technology industries Manufacturing n.e.c.; Recycling; Wood, pulp, paper, paper products, printing and publishing; Food products, beverages and tobacco; Textiles, textile products, leather and footwear.

Definitions of knowledge-intensive business services vary somewhat but the most standard definition and those used here include: Post and tele-communications (SIC 64), Finance and insurance (SIC 65-67) and Business activities (SIC 71-74). See for example, the OECD Science, Technology and Industry Scoreboard (www.oecd-ilibrary.org/docserver/download/9211041ec055.pdf).

The size breakdown of SMEs within each LEP will be provided based on an employment size categorisation. Again the exact size-band categories will need to be broad enough to meet disclosure rules. Due to the fact that the number of SMEs reduces substantially at the top end of the SME definition the size-band categories at this level will need to be quite broad, covering 50-250 employees. We report four main metrics in this category:

- Size distribution of SMEs size-band distribution of SMEs within each LEA;
- Broad sectoral disaggregation of SMEs for (a) manufacturing, (b) business services,
 (c) personal services, (d) public services;
- Proportion of manufacturing SMEs by technological intensity (a) high technological intensity, (b) medium technological intensity, (c) low technological intensity; and
- Proportion of services SMEs which are knowledge intensive.

1.3.2 SME Growth Metrics

The growth metrics proposed are again drawn from the BSD and will include measures for surviving firms as well as of start-ups. Both of these provide an indication of the scope of growth-oriented firms within the LEA; such firms are typically more open to business support and collaboration. As the ERC has constructed a longitudinal version of the BSD, this will be used to identify fast-growing firms over a specific period. For example, surviving firms' growth rates for the 2011-2014 period will be generated based on the OECD three-year definition using an employment measure. These growth categories then used to compute the scale of slow, medium and fast-growing business within each LEA.

The number of start-up SME businesses is compiled for each LEA, standardised by population, to produce an understanding of the extent of entrepreneurial activity within the area. Start-ups growing to a particular turnover level will also be provided, again to provide a measure of those focused on growth. This is provided over a three-year period. The metrics include:

- Proportion of fast-growing SMEs the percentage of SMEs achieving more than 20 per cent growth on average each year from jobs (2011-2014);
- Net jobs growth by SMEs the net addition to the total jobs provided by SMEs in each local area relative to the starting stock (2013-2014);

- Three-year survival rates of start-ups the percentage of firms established in 2011 which remained in operation in 2014; and
- Start-up growth the proportion of surviving start-ups that reach £1 million turnover by 2014.

1.3.3 SME Innovation Metrics

The metrics drawn from the UKIS will be used to gauge the extent of innovative activity within each of the LEAs along with the main barriers to innovation which HEIs may be able to help alleviate. The level of innovation activity within a local area is important as firms located within innovative areas are known to become more innovative themselves¹. Metrics will relate to the 2010-2012 period and will be:

- The percentage of SMEs in the LEP engaged in product or service innovation, defined as the market introduction of a new good or service or a significantly improved good or service with respect to its capabilities;
- The percentage of SMEs engaged in new to the market innovation;
- The percentage of SMEs within the LEP engaged in process innovation, defined as the use of new or significantly improved methods for the production or supply of goods and services;
- The proportion of firms engaged in strategic or marketing innovation, defined as new or significantly amended forms of organisation, business structures or practices;
- The proportion of SMEs engaging in R&D;
- The proportion of SMEs engaging in intramural R&D; and
- The proportion of SMEs collaborating as part of their product, service or process innovation activity.

1.4 Using the metrics

Section 2 of this document provides meta-data, descriptive data and some commentary on each of the metrics reported in the Section 3 tables. This might provide a useful adjunct to the publication of metric data.

Attribution of the metrics should be: for the growth and population metrics: 'Source: Business Structures Database. Enterprise Research Centre Analysis'; and for the innovation metrics: 'Source UK Innovation Survey. Enterprise Research Centre Analysis'.

Note also that for both datasets there is a statutory declaration as follows:

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¹ Roper, Stephen; Priit Vahter and James H. Love. 2013. "Externalities of Openness in Innovation." Research Policy, 42(9), 1544-54.

Section 2: SME Population Metrics

2.1 Numbers of SMEs

Metric Number of SMEs in LEPs by Size-band

Source Table 1.1

Definition Breakdown of number of SMEs in each LEP by size, with size-bands

of 0-4, 5-9, 10-24, 25-49 and 50-249 employees.

Remarks Across all LEPs, micro-enterprises and specifically those with fewer

than five employees dominate the population of enterprises. Around ten per cent of SME enterprises have ten or more employees. Despite this similarity across LEPs, significant variation is evident in the total number of enterprises. On average, LEPs have 55,062 SMEs, however this varies from the lowest population of SMEs in Tees Valley of 15,731 to the highest population in London of 430,577 SMEs which is over 27 times that of Tees Valley. London LEP and South East LEP with 149,522 SMEs are significant outliers in the population of SMEs with the next highest population being

Leeds City Region LEP with 86,697 SMEs.

Metric Employment of SMEs in LEPs by Size-band

Source Table 1.2

Definition Breakdown of employment in SMEs for each LEP by size, with size-

bands of 0-4, 5-9, 10-24, 25-49 and 50-249 employees.

Remarks The share of SME employment across the employee size-bands is

markedly different to that for the number of enterprises by size-band (Table 1.1). While a very small proportion of SMEs have between 50-249 employees, these enterprises account for the majority of SME employees. For example, across England, SMEs in the size-band 50-249 employees account for 1.6 per cent of enterprises but 31.5 per cent of employment, equivalent to approximately 3.46

million.

On average, a third of employment is in micro enterprises with fewer than ten employees, an additional third is in enterprises with ten to 49 employees and the remaining third is in enterprises with 50-249 employees. This relative distribution of employment across sizebands is similar for all LEPs. The size-band with greatest variation is 50-249 with Yorkshire and Humberside LEP having the lowest share (24.5 per cent) of SMEs in this size-band while Tees Valley

has the highest (35.4 per cent).

It is perhaps total employment in each LEP which is most significant with variation across LEPs ranging from 92,738 in Tees Valley LEP

to 2,113,669 in London.

Metric Turnover of SMEs in LEPs by Size-band

Source Table 1.3

Definition Breakdown of turnover in SMEs for each LEP by size, with size-

bands of 0-4, 5-9, 10-24, 25-49 and 50-249 employees.

Remarks The turnover from SMEs across LEPs reflects the distribution of

enterprises by size-band and employment. Where there is a smaller stock of SMEs and these are predominantly micro-enterprises (fewer than ten employees), then total turnover is lower. SME turnover in London LEP is a distinct outlier to other LEPs being over eight times higher than the SME turnover in the next highest, South East LEP. Excluding London, average SME turnover per LEP is

£38.5 billion.

For some LEPs the share of turnover in larger SME size-bands is even more marked than that for employment. In Lancashire LEP and Swindon and Wiltshire LEPs turnover is even more concentrated in 50-249 employee enterprises than employment. For Lancashire LEP 30.9 per cent of total SME employment is in 50-249 employee enterprises, yet these enterprises account for 45.0 per cent of turnover. Similarly in Swindon and Wiltshire LEP enterprises with 50-249 employees account for 32.8 per cent of employment but 41.1 per cent of turnover. In such cases productivity (turnover per employee) is higher in these enterprises, most likely reflecting higher value added activities.

2.2 SMEs by Sector

Metric Number of SMEs in LEPs by Broad Sector

Source Table 2.1

Definition Breakdown of the number of SMEs in each LEP by broad sector:

manufacturing, business services, personal services and public

services.

Remarks Across all LEPs, business services account for the largest proportion of SMEs, averaging at 58.7 per cent. The remaining

SMEs are then evenly split across the other broad sector groupings

of manufacturing, personal services and public services.

Variation is evidenced across the LEPs in this distribution by broad sector. As might be anticipated, London LEP records the lowest share of manufacturing at 5.6 per cent of SMEs and the highest share of business services SMEs at 69.8 per cent. The low share of manufacturing is not necessarily a city phenomenon as near average shares are recorded in Liverpool City LEP and above average shares in other city regions such as Leeds, Greater Birmingham and Solihull. and Greater Manchester LEPs. In contrast LEPs such as Thames Valley Berkshire, Enterprise M3, Coast to

Capital and Cheshire and Warrington LEPs all record manufacturing share of SMEs of less than nine per cent. In general where the share of manufacturing is low this is mirrored in an above average share of business services.

In general, the share of SMEs in personal services and public services is around 14 per cent each with most LEPs approximating this level. A notable exception to this is Northamptonshire LEP with the highest relative share of business services SMEs at 22.5 per cent (as compared to the next highest LEP of Cornwall and the Isles of Scilly at 17.1 per cent). It is likely that this reflects the proximity of Northamptonshire to London and the share of population commuting to work in London but requiring personal services from the LEP.

Metric Employment in SMEs in LEPs by Broad Sector

Source Table 2.2

Definition Breakdown of employment in SMEs in each LEP by broad sector: manufacturing, business services, personal services and public

services.

Remarks Across all LEPs, comparing the number of SMEs by broad sector to the share of employment by sector produces three interesting observations. First, on average, business services still account for the largest share of employment at 36.6 per cent; however this is markedly lower than the share of total SMEs at 58.7 per cent (Table 2.1).

Second, across all LEPs, SMEs in the manufacturing sector account for a larger share of employment (average of 22.0 per cent) than number of SMEs which was noted at 13.3 per cent (Table 2.1).

Third, as for manufacturing SMEs, employment in public services SMEs is proportionately higher as compared to the share of enterprises in the sector. For example, on average public services SMEs account for 13.3 per cent of enterprises but this equates to 30.1 per cent of employment.

Metric Turnover of SMEs in LEPs by Broad Sector

Source Table 2.3

Definition Breakdown of the turnover of SMEs in each LEP by broad sector: manufacturing, business services, personal services and public services.

Remarks The distribution of turnover across the broad sectors provides additional insights into the sectoral composition of LEPs. Business services, on average, continue to account for the largest share of SME turnover (43.0 per cent).

It is in manufacturing however that the most significant increase in relative importance is found. While manufacturing SMEs accounted for 13.3 per cent of enterprises and 22.0 per cent of employment, their share of turnover is higher still at 33.9 per cent. In other words, output per employee is higher in manufacturing enterprises (at £131,093 per employee) than business services (£119,806). Further, manufacturing output per employee is twice as high as in personal services SMEs (at £66,635) and almost three times as high as in public services (at £45,205).

LEPs with higher shares of personal and public services SMEs will therefore have lower output (as measured by SME turnover) than LEPs with higher shares of manufacturing and business services SMEs.

2.3 SMEs by Technological Intensity

Metric Number of SMEs in LEPs by Manufacturing Technological Intensity

Source Table 3.1

Definition Breakdown of the number of manufacturing SMEs in each LEP by technological intensity: high, medium-high, medium-low and low.

Remarks As was evident in Table 2.1 on average, manufacturing accounts for a relatively small proportion (13.3 per cent) of total SMEs across the LEPs. In this table on the technological intensity of these manufacturing SMEs, we find that approximately 70 per cent are

manufacturing SMEs, we find that approximately 70 per cent are classified as medium-low tech or low tech, with just under a quarter (23.8 per cent) medium-high tech and a small proportion (5.5 per cent) classified as high tech. In other words, of the total stock of SMEs across English LEPs, on average, high tech manufacturing enterprises account for only 0.7 per cent of these enterprises. Combining high tech and medium-high tech brings the share of total SMEs to 3.9 per cent.

It is interesting that while London LEP has the highest share of low tech manufacturing SMEs, it has the lowest share of medium-high and medium-low tech.

The technological intensity of manufacturing SMEs in each LEP is mixed. For example, the Black Country has the lowest share of high tech manufacturing as well as the lowest share of low tech manufacturing SMEs, with this resulting in – technologically – a quite homogenous manufacturing sector. A similar picture is found in Thames Valley Berkshire LEP with relatively higher shares of high and medium-high tech manufacturing. In contrast LEPs such as Greater Manchester and Heart of the South West have a very heterogeneous technological mix of manufacturing SMEs.

Metric Employment in SMEs in LEPs by Manufacturing Technological Intensity

Source Table 3.2

Definition Breakdown of the employment in manufacturing SMEs in each LEP by technological intensity: high, medium-high, medium-low and low.

Remarks In general the share of employment in SMEs mirrors that of the number of SMEs across the categories of technological intensity. High tech manufacturing SMEs on average account for a slightly larger share of employment (6.9 per cent) relative to their share of number of enterprises (5.5 per cent); however this difference is small.

The implication of employment mirroring the number of enterprises by technological intensity is that where an LEP has a high share of enterprises in a technological intensity category e.g. London with the highest share of enterprises in low tech manufacturing, then this is also evident in the share of employment, i.e. London has the highest share of employment in low tech manufacturing.

Metric Turnover in SMEs in LEPs by Manufacturing Technological Intensity

Source Table 3.3

Definition Breakdown of the turnover of Manufacturing SMEs in each LEP by technological intensity: high, medium-high, medium-low and low.

Remarks Similar to the distribution of manufacturing employment in LEPs by technological intensity, again the distribution of turnover by technological intensity closely reflects the distribution by the number of enterprises.

It was noted previously (Table 2.3) that manufacturing SMEs account for a disproportionate share of total turnover relative to their share of total SMEs. This appears however to be a characteristic of manufacturing enterprises in general, as opposed to being related to technological intensity. In other words, for LEPs with a higher relative share of high-tech manufacturing SMEs these enterprises do not account for a disproportionately higher share of manufacturing-generated turnover.

Further analysis of the data in terms of average turnover per employee by technological intensity highlights that medium-high tech enterprises have the highest levels (£154,900 per employee) followed by high tech manufacturing (£142,800 per employee). Medium-low and low-tech enterprises on average across the LEPs are recording lower levels of turnover per employee (£122,200 and £120,300 per employee respectively). The differential is not

substantial and therefore the overall profile of enterprises and employment by technological intensity is mirrored in the distribution of sales generated.

2.4 SMEs by Knowledge Intensity of Business Services

Metric Number of SMEs in LEPs by Knowledge Intensity of Business Services

Source Table 4.1

Definition Breakdown of the number of business services SMEs in each LEP by knowledge intensity: KIBS and Non-KIBS.

> Knowledge Intensive Business Services (KIBS) which are based on OECD definitions and given as: Post and telecommunications: Finance and insurance; and Business activities (SIC2007 58-82). Any service sector enterprises not in the above categories are coded as Non-KIBS.

Remarks Across all LEPs business services enterprises were found to represent the largest share of SMEs (58.7 per cent) (Table 2.1). KIBS SMEs account for approximately 28.3 per cent of all enterprises while Non-KIBS SMEs account for 30.4 per cent of all SMEs.

> Variation across LEPs from this even split between Non-KIBS and KIBS is quite small. The lowest share of KIBS enterprises is 36.2 per cent (as found in Cornwall and the Isles of Scilly LEP) whereas the highest share of KIBS is 61.6 per cent (in London LEP).

> There is some indication from the data that those LEPs recording high shares of low technology manufacturing are also those recording higher shares of Non-KIBS. The implication of this is that the overall knowledge intensity of SMEs in certain LEPs may be relatively lower than for others with implications for HEI engagement.

Metric Employment in SMEs in LEPs by Knowledge Intensity of **Business Services**

Source Table 4.2

Definition Breakdown of employment in business services SMEs in each LEP by knowledge intensity: KIBS and Non-KIBS.

> Knowledge Intensive Business Services (KIBS) which are based on OECD definitions and given as: Post and telecommunications; Finance and insurance; and Business Activities (SIC2007 58-82). Any service sector enterprises not in the above categories are coded as Non-KIBS.

Remarks Non-KIBs SMEs are more employee intensive than KIBS SMEs. For example, while on average 51.8 per cent of all business services SMEs across the LEPs are Non-KIBS, these account for 66.6 per cent of all employment in business services SMEs (i.e. including Non-KIBs and KIBS SME employment). In contrast, KIBS SMEs account for 48.2 per cent of all business services SMEs but only per cent of business services SME employment. Disaggregating this in actual values suggests that on average a Non-KIBs SME employs 6.8 employees compared to 3.8 employees in a KIBS SME.

> This pattern of Non-KIBS SMEs being more employee intensive than KIBS SMEs holds for every LEP and is accentuated in some. For example, Buckinghamshire Thames Valley LEP has 40.1 per cent of business services SMEs defined as Non-KIBS, but these account for 60.2 per cent of business services SME employment. Similarly in Cumbria LEP, 58.4 per cent of Non-KIBS SMEs account for 78.5 per cent of employment.

Metric Turnover in SMEs in LEPs by Knowledge Intensity of Business Services

Source Table 4.3

Definition Breakdown of turnover of business services SMEs in each LEP by knowledge intensity: KIBS and Non-KIBS.

> Knowledge Intensive Business Services (KIBS) which are based on OECD definitions and given as: Post and telecommunications; Finance and insurance; and Business Activities (SIC2007 58-82). Any service sector enterprises not in the above categories are coded as Non-KIBS.

Remarks A similar pattern is found for turnover as that for employment as split between Non-KIBS and KIBS. Again, Non-KIBS SMEs account for a higher relative share of turnover from business services across all LEPs. This is true for all LEPs, with the exception of Gloucestershire LEP, Swindon and Wiltshire LEP and London LEP where Non-KIBs account for 36.2 per cent, 48.1 per cent and 43.3 per cent of business services SME turnover respectively.

> What these figures mask is differences between Non-KIBS and KIBS SMEs in turnover per employee. On average, employees in Non-KIBS are generating £139,100 compared to £196,200 in KIBS SMEs. As with more technology intensive manufacturing SMEs, again knowledge intensity is associated with higher added value per employee.

2.5 SMEs by Creative Industries

Metric Number of SMEs in LEPs by Creative Industries (CI)

Source Table 5.1

Definition Breakdown of the number of SMEs in each LEP by creative industry:

Non-CI and CI

Remarks Examining SMEs in terms of their creativity covers all SMEs in each

LEP i.e. all SMEs across all the broad sectors (see Tables 1.1 - 2.3). Overall, SMEs across all LEPs are dominated by Non-Cl enterprises. On average 91.3 per cent of all SMEs are Non-Cl enterprises and therefore 9.7 per cent are Cl enterprises.

enterprises and therefore 8.7 per cent are CI enterprises.

Variation from these averages across the LEPs is relatively low. The lowest share of Non-CI SMEs is in London LEP (which by default has the highest share of CI SMEs at 18.8 per cent of SMEs). In contrast, Stoke-on-Trent LEP has the highest share of Non-CI SMEs at 97.2 per cent with the implication that only 2.8 per cent of SMEs here (or 4,578 out of 160,874 SMEs) are classified as CI SMEs.

Metric Employment in SMEs in LEPs by Creative Industries

Source Table 5.2

Definition Breakdown of employment in SMEs for each LEP by creative

industry: Non-CI and CI

Remarks As found for Non-KIBS in comparison to KIBS SMEs, again Non-CI

SMEs are slightly more employee intensive (5.0 employees per

SME) than CI SMEs (3.0 employees per SME).

This means that average employment across LEPs is split between 94.9 per cent in Non-CI SMEs and only 5.1 per cent in CI SMEs. In the Black Country this share declines to 2.0 per cent of all SME employees in CI SMEs and a high in London of 13.0 per cent. Indeed, with the exception of London LEP and Thames Valley Berkshire LEP the share of employment in Non-CI SMEs is over 90

per cent.

Metric Turnover in SMEs in LEPs by Creative Industries

Source Table 5.3

Definition Breakdown of SMEs turnover in each LEP by Creative Industry:

Non-CI and CI

Remarks The share of turnover in Non-CI SMEs further accentuates the

dominance of these enterprises and employment shares. Here we find that 91.3 per cent of SMEs across the LEPs are Non-CI enterprises, employing 94.9 per cent of total SME employees and generating 96.1 per cent of SME turnover.

This increasing dominance of Non-CI enterprises reflects slightly higher turnover per employee values for these SMEs. On average, Non-CI SMEs generate £161,600 per employee as compared to £125,900 per employee in CI SMEs. However, these values are strongly affected by much higher turnover per employee for (both CI and Non-CI) SMEs in London. Excluding London from these averages generates lower average levels of turnover per employee for both Non-CI SMEs (at £101,300) and CI SMEs (at £61,700), however the differential between Non-CI and CI is maintained.

Notes: Tables 5.1 – 5.3 The definition of CI was provided by HEFCE and includes: Advertising and Marketing; Architecture; Crafts; Design; Film, TV, Radio and Photography; IT, Software and Computer Services; Publishing; Museums, Galleries and Libraries; Music Performing and Visual Arts. Any firms not in the above categories are coded as Non-CI.

Section 3: Growth of SMEs by LEP

Metric Fast Growth Firms by LEP 2011-14

Source Table 6.1

Definition Breakdown of fast growth SMEs by LEP.

Fast growth is defined as those enterprises with average annual employment growth of at least 20 per cent per annum over the three year period 2011-2014.

Remarks

Over the period 2011 to 2014 labour market statistics point to a growth in employment, three-quarters of which was driven by a decline in economic inactivity, rather than lower unemployment². This was also a period when the previous declines in annual GDP growth rates in 2008 (-0.77 per cent) and 2009 (-5.17 per cent) were reversed and annual growth rates were recorded in 2011 (1.12 per cent), 2012 (0.28 per cent) and 2013 (1.74 per cent).

Reflecting this broader macroeconomic growth, SMEs across the LEPs were also experiencing growth with on average 16.6 per cent of all SMEs experiencing annual employment growth equal to or greater than 20 per cent.

In general, the proportion of fast growth SMEs was similar across all LEPs, ranging from a low of 14.3 per cent of SMEs in Cheshire and Warrington LEP to a high of 18.7 per cent of SMEs in London. This suggests that all LEPs benefited from national economic growth over this period with only small differences evident in how this was manifest across the LEPs.

Metric Net Jobs Growth by LEP

Source Table 6.2

Definition Breakdown of employment in SMEs in 2013 and 2014 for LEPs,

associated net jobs growth and net job creation rate.

Net jobs creation rate is equal to net jobs created/employment in 2013.

Remarks In this metric we look beyond growth in existing firms (Table 6.1) to

wider job creation in the LEPs between 2013 and 2014. On average, job growth increased by 4.45 per cent. Again this was a period of job growth in the UK economy with the employment rate

² http://www.policyexchange.org.uk/media-centre/blogs/category/item/with-working-age-economic-inactivity-lower-than-during-the-boom-years-could-we-see-unemployment-start-falling-faster

(for people aged 16 to 64) rising from 71.5 per cent at the end of 2012, and to 72.3 per cent in January 2014. ONS states that much of this increase in employment was due to an increase in selfemployment as opposed to increases in the number of employees.

Data presented here suggests an average increase in the percentage of new jobs created between 2013 and 2014 across the LEPs. Yet, this percentage increase varied across the LEPs from a low in Enterprise M3 LEP of 2.5 per cent of new job creation to 10.5 per cent in Stoke-on-Trent LEP.

Correlation statistics between the percentage of fast growth firms over the 2011 to 2014 period (Table 6.1) and net jobs growth between 2013 and 2014 do not support the presence of a positive relationship. In other words, this supports the ONS suggestion that a large proportion of new jobs created over this period were among the self-employed rather than employees.

Metric Three-Year Survivor Rate of New Start-Ups by LEP (2011-2014)

Source Table 6.3

Definition Breakdown of the three-year survivor rate, which is the number of start-ups in 2011 (enterprises born); the number (and percentage share) of those start-ups that survive to 2014; and of those the number (and percentage share) that have turnover of at least £1 million in 2014.

Remarks

In this table we consider both the probability of start-up enterprises surviving (calculated over a three-year period post start-up) across each of the LEPs.

On average, 58.0 per cent of start-up enterprises survive for three years post start-up, however this varies across the LEPs from a low of 52.0 per cent in Liverpool City Region LEP to a high of 63.0 per cent in Cornwall and the Isles of Scilly LEP.

This points to differences in the probability of survival of start-ups across the LEPs. This could be attributed to a range of factors including the characteristics of the start-up enterprises formed i.e. sector, investment, entrepreneurial factors as well as wider environmental factors i.e. availability of business support, strength of social capital availability of appropriately qualified labour etc.

Data relating to the share of high growth start-up enterprises in each LEP similarly point to variation across the LEPs. On average 2.4 per cent of start-ups reach sales of £1 million or greater in a threeyear period; however this varies from 2.4 per cent in Derby, Derbyshire, Nottingham and Nottinghamshire LEP to a high of 8.0 in London.

Of note is the presence of a negative relationship between the

proportions of start-up enterprises surviving three years and the proportion of high growth enterprises in an LEP. This suggests that conditions in an LEP favouring enterprise survival are different to conditions fostering high growth (R^2 =-.467, p=.003). Indeed further analysis points to a positive correlation between the proportion of fast growth enterprises in an LEP (Table 6.1) and the proportion of high growth start-ups (Table 6.3) (R^2 =.409, p=.010).

Section 4: Innovation Activity of SMEs by LEP

Metric Product/Service Innovation Activity of SMEs by LEP

(Percentage)

Source Table 7.1

Definition Breakdown of the percentage of enterprises undertaking product

innovation.

This is based on Questions 6a and 6b in the UKIS: During the threeyear period 2010-2012 did this business introduce new or

significantly improved goods or services?

Remarks On average, 19.0 per cent of enterprises introduced new or significantly improved goods or services over the period 2010 to 2012. This product innovation rate varied across the LEPs from a low in York and North Yorkshire LEP (at 11.8 per cent) to

Oxfordshire LEP (at 27.4 per cent).

Local product/service innovation activity is of particular importance as an indicator of added value, competitiveness and sustainability. Empirical evidence consistently demonstrates that innovating firms experience higher performance and that innovation activity is a key driver of economic growth. As a result, LEPs with lower product/service innovation have fewer enterprises introducing novelty and have potentially lower economic growth than LEPs with higher product/service innovation rates.

Metric New to Market Innovation of SMEs by LEP (Percentage) (for

those who do product/service innovation)

Source Table 7.2

Definition Breakdown of the percentage of enterprises undertaking new to

market innovation.

This is based on Question 8a in the UKIS: During the three-year period 2010-2012 did this business introduce a new good or service

to the market before competitors?

Remarks This metric is a refinement of product/service innovation (Table 7.1).

Here the focus is on the proportion of enterprises in each LEP introducing products/services that have not previously been available on the market. Enterprises introducing these products/services are undertaking activities that are at the forefront of the market and superior to those provided by competitors. As a result these enterprises may increase their market share, have higher value added and achieve return on investment levels above

that of their competitors.

On average across LEPs, 46.6 per cent of product/service innovators were engaged in introducing new to market products/services. However, again this varied markedly from a low of only 26.3 per cent of innovators in New Anglia LEP to a high of 62.1 per cent in Dorset LEP. Recalculating these proportions based on the total number of enterprises sampled in each LEP a similar pattern is found; however, two observations are noteworthy:

- The actual proportion of new to market innovators is more stark with New Anglia LEP having only 3.6 per cent of SME enterprises engaged in new to market innovation and this rising to a high in Oxfordshire of 15.1 per cent of SMEs.
- With 15.1 per cent of SMEs engaged in new to the market innovation, Oxfordshire LEP has a higher absolute share of new to the market innovators than Dorset LEP (at 13.4 per cent of SMEs). Similarly, Enterprise M3 (14.3 per cent), also records a higher absolute share of new to the market innovators than Dorset LEP.

In addition, a weak significant relationship exists between the proportion of SMEs in each LEP engaging in product/service innovation and the proportion undertaking new to market innovation (R^2 =.305, p=.095).

Metric Process Innovation Activity of SMEs by LEP (Percentage)

Source Table 7.3

Definition Breakdown of the percentage of enterprises undertaking process innovation.

This is based on Question 10 in the UKIS: During the three-year period 2010-2012 did this business introduce any new or significantly improved processes for producing or supplying goods or services?

Remarks

Across the LEPs, process innovation over the period 2010 to 2012 was undertaken less than product/service innovation. On average, 19.0 per cent of SMEs reported undertaking product/service innovation, however this declined to only 11.9 per cent of enterprises undertaking process innovation.

A strong positive correlation is found between LEPs' product/service innovation activity rates and rates of process innovation (R^2 =.670, p=.000). In contrast, no significant relationship is found between rates of new to market innovation (Table 7.2) and process innovation rates (Table 7.3) (R^2 =.098, p=.600).

The implication of this is that those LEPs with lower innovation activity have also lower process innovation e.g. York and North Yorkshire LEP. Similarly LEPs such as Oxfordshire and Swindon and Wiltshire had higher rates of both product/service and process innovation.

This suggests that SMEs in each LEP have a propensity to engage in innovation irrespective of whether this is product/service or process innovation. In addition, while there is a weak positive relationship between product/service innovation activity rates and the proportion of SMEs introducing new to market innovations, no such association is found between the novelty of product/service innovation and process innovation.

Metric Strategic and Marketing Innovation Activity of SMEs by LEP (Percentage)

Source Table 7.4

Definition Breakdown of the percentage of enterprises undertaking strategic or marketing innovation.

This is based on Questions 3b and 3d in the UKIS: During the threeyear period 2010-2012 did this business introduce any new methods of organising work responsibilities and decision making?; or implement changes to marketing concepts or strategies?

Remarks The average rate of strategic and marketing innovation activity is higher at 26.7 per cent than that for product/service or process innovation. It should be noted, however, that this definition is relatively broad, including both changes in internal organisation as well as competitive positioning in external markets. Variation is found across the LEPs from a low in Cumbria (19.0 per cent of SMEs) to a high in Greater Cambridge LEP (32.0 per cent).

Positive correlations are found between the proportion of SMEs in LEPs undertaking strategic and marketing innovation with each of the other innovation activity rate measures (with Product/service innovation, R^2 =.476, p=.002; New to market innovators R^2 =.361, p=.046; Process innovators R^2 =.353, p=.038).

Metric R&D Activity of SMEs by LEP (Percentage)

Source Table 7.5

Definition Breakdown of the percentage of enterprises undertaking R&D activity.

This is based on Questions 4a and 4b in the UKIS: During the threeyear period 2010-2012 did this business invest in internal R&D?; or in the acquisition of R&D?

Remarks On average, 16.4 per cent of SMEs across LEPs are engaged in R&D activity, whether this is undertaken internally or acquired from external sources. This rate of R&D activity among SMEs varies

markedly across the LEPs from a low of 7.3 per cent in Greater Lincolnshire to a high of 25.4 per cent in Greater Cambridgeshire and 28.1 per cent in Oxfordshire LEP.

Correlation coefficients demonstrate a strong positive association between the LEP's innovation rate and R&D activity rates. For example, significant positive correlations are evident between rates of product/service innovation and R&D activity (R^2 =.751, p=.000), process innovation and R&D activity (R^2 =.593, p=.000) and strategic and marketing innovation with R&D activity (R^2 =.574, p=.000). Perhaps surprisingly, rates of new to market innovation by LEP (Table 7.2) were not positively correlated with R&D activity rates (R^2 =.243, p=.87).

Metric Intramural R&D Activity of SMEs by LEP (Percentage)

Source Table 7.6

Definition Breakdown of the percentage of enterprises undertaking intramural R&D activity.

This is based on Question 4a in the UKIS: During the three-year period 2010-2012 did this business invest in internal R&D?

Remarks

Intramural R&D activity rates closely reflect those for R&D activity rates (Table 7.5). Average R&D activity rates of 16.4 per cent of SMEs across the LEPs is matched with 16.0 per cent of SMEs undertaking intramural R&D.

These rates suggest that where SMEs are acquiring external R&D, this is likely to be accompanied by internal R&D.

R&D activity rates are strongly correlated with product/service (R^2 =.760, p=.000) and process innovation (R^2 =.547, p=.001). Again, it is somewhat surprising to find no significant association between intramural R&D activity rates and rates of SMEs introducing new to market innovations (R^2 =.289, p=.115).

Metric Innovation Collaboration by SMEs and LEP (Percentage)

Source Table 7.7

Definition Breakdown of the percentage of enterprises undertaking innovation activities in co-operation with other collaborators.

This is based on Question 16 in the UKIS: During the three-year period 2010-2012 did your business co-operate on any innovation activities with any of the following: other businesses, suppliers, clients, competitors, consultants, universities, government?

Remarks External knowledge sourcing by SMEs is important in

complementing internal knowledge and leading to innovation activity. This is evident with significant positive correlations between the proportion of SMEs investing in intramural R&D and external knowledge sourcing (R2=.615, p=.000) and rates of external knowledge sourcing and product/service innovation (R²=.582, p=.000).

On average, 19.6 per cent of SMEs across the LEPs reported that they engaged in collaborative links with external organisations as part of their innovation activities. The lowest rate of external collaboration was for SMEs in Cumbria LEP (14.0 per cent) and highest in Oxfordshire LEP (31.5 per cent). These findings suggest that strong associations between R&D investment and innovation activity that are reported at an organisation level, also exist at the LEP level.

Metric New Business Practices for Organising Procedures and **External Relationships for SMEs by LEP (Percentage)**

Source Table 7.8

Definition Breakdown of the percentage of enterprises undertaking new business practices for organising procedures and external relationships.

> This is based on Questions 3a and 3c in the UKIS: During the threeyear period 2010-2012 did your business undertake new business practices for organising procedures or new methods of organising external relationships?

Remarks

On average 25.6 per cent of SMEs engage in the introduction of new business practices. This ranged from 18.0 per cent of SMEs in Cumbria to 32.4 per cent in Leicester and Leicestershire LEP and 37.2 per cent in Tees Valley LEP.

In general, the proportion of enterprises undertaking this activity was slightly higher than the LEP's share of enterprises undertaking product or process innovation, or indeed investing in R&D activity.

While strong, significant correlations were found between LEPs' innovation indicators, these are not found here. The proportion of enterprises undertaking new business practices was not associated with product/service, process innovation or R&D activity.

Notes UKIS is based on enterprises with ten or more employees. On average, micro-enterprises i.e. those with fewer than ten employees. account for over three-quarters of all enterprises.

Section 5: Implications for HEIs

5.1 Introduction

In this section we comment briefly on some of the potential implications of the geographic distribution and characteristics of the SME population which emerges from the metrics.

5.2 Size, Employment and Turnover

Significant variations in the populations of SMEs across LEPs suggest that for HEIs the opportunities to engage with local SMEs do vary. For example, HEIs in London, the South East and areas such as Leeds City Region LEP etc. have a much larger local pool of SMEs with which to engage than HEIs in smaller and more rural LEPs such as Tees Valley, Cornwall and the Isles of Scilly and Cumbria.

Total employment is one indicator of the potential local demand from HEIs for education and training associated with continuing professional development (CPD). Where total employment is higher e.g. London, South East, Leeds City Region and Greater Manchester LEPs, this is likely to translate into higher total demand for CPD-related activities.

Similarly, where a LEP's SME turnover is higher, the scale of business activity in the LEP is higher and so too is the potential for local HEI-business engagement. Almost all forms of HEI-business engagement require financial commitment by the enterprise, for employee CPD activities, contract research etc., therefore, for HEIs located in more prosperous LEPs (as measured by SME turnover) the potential scale of local engagement is higher.

The dominance of micro-enterprises, and in particular those with fewer than five employees, means that for the majority of SMEs in all LEPs, capability to engage with HEIs is constrained. In other words, the proportion of SMEs with which HEIs are likely to engage over any given period is relatively small.

Where CPD activities are the basis for HEI-business engagement, the nature of these may vary depending on the size-band distribution of enterprises and employees. For example, employees in larger SMEs, i.e. with 50-249 employees, may require functional or skill-specific training (e.g. design, marketing, engineering, personnel development) whereas employees in smaller enterprises may seek more generic CPD involving general technical and business skills development. Similarly, where turnover is more concentrated in larger SMEs, greater financial resources in these enterprises may enable both larger and longer-term engagement with HEIs.

5.3 SME Sector

HEIs have a role to play in LEPs irrespective of the breakdown of SMEs by sector. At the same time, the demands and subsequent opportunities for HEI-business engagement are likely to vary across the sectors. HEIs have traditionally followed a technology transfer model with this shaped by the needs of manufacturing sectors. This has led to an emphasis on issues surrounding the identification and protection of intellectual property, the negotiation of research contracts and the use of HEI facilities for testing. The difficulty with this approach is the relatively low share of manufacturing SMEs across the LEPs. This suggests the need for HEIs to adopt broader knowledge transfer models of engagement, particularly in targeting

service-oriented enterprises. Of course, this is more applicable in relation to business services than for personal or public services SMEs. Business services SMEs have relatively high output per employee (or added value) and therefore the financial resource to invest in employee development as well as research and development activities.

Although the data suggests that the greatest potential for HEI-business engagement is in manufacturing and business services – due to their share of employment and turnover – local public services SMEs may be an important partner with which to engage. For example, employment in public services SMEs accounted for a disproportionate share, relative to the number of SMEs. The development of CPD activities with this group is likely to be significant.

5.4 SMEs by Technological Intensity

Manufacturing SMEs account for a relatively small share of all SMEs across most LEPs (13.3 per cent). If this is disaggregated further we find that only 0.7 per cent of all SMEs across the LEPs are engaged in high technology intensive activities. Extending this to include medium-high tech brings the share of total SMEs to 3.9 per cent. HEIs have traditionally looked to more technology intensive manufacturing enterprises as the most appropriate organisations with which to engage in technology transfer related activities. Indeed, there is extensive empirical evidence to support this focus, with these enterprises identified as being most capable of engaging with HEIs for research and technology development activities. However, what these data demonstrate is that, by adopting such a focus, the potential for HEI-business engagement is severely restricted.

Unique challenges also exist for HEIs across the different LEPs. Where manufacturing SMEs are relatively homogenous in terms of their technological intensity then the breadth of engagement mechanisms used by HEIs is likely to be narrower. In contrast, where the population of manufacturing SMEs is heterogeneous in technological intensity then a greater breadth of HEI engagement channels may be needed.

Business services SMEs represent the largest group (58.7 per cent) of SMEs across LEPs. As for higher technological intensity manufacturing enterprises, HEIs are more likely to focus on nurturing links with KIBS than with Non-KIBS as these enterprises tend to have more highly educated employees.

5.5 SMEs in Creative Industries

There has been a growing recognition of the importance of the creative industries (CI) to the economy. Simultaneously HEIs have sought to determine how best enterprises in CI can be supported. However, these SMEs account for a relatively small proportion of total SMEs, an even smaller proportion of employees and have lower levels of turnover per employee than in Non-CI SMEs.

At the same time, as CI are likely to employ a higher proportion of graduates than non-CI enterprises this suggests that HEIs have a key role as a source of highly educated and skilled graduates not only with subject-specific skills but with generic and transferable skills. In turn, these SMEs have the capability to engage with HEIs and identifying appropriate ways to increase turnover per employee may be a priority.

Employees in CI enterprises are also characterised as being very entrepreneurial in their CPD and application of knowledge. HEIs may have a role to play in developing entrepreneurial skills, either during the period of accredited study, or through CPD. In addition CI enterprises operate in technologically dynamic sectors and therefore HEIs may have a role in assisting with the exploration and exploitation of new technologies in the business context.

5.6 Growth of SMEs

Where businesses are growing this creates demand for graduates. For HEIs, meeting the needs of local enterprises means that graduates need to have the appropriate education and skills for businesses. The implication of this is that HEIs and businesses need to have strong communication and accurate information on changing labour market demands.

Across the LEPs a similar proportion of enterprises had experienced fast growth between 2011 and 2014. This suggests that the demand for graduates will be concentrated on a proportion (16.6 per cent) of enterprises. Building strong relationships with these enterprises is particularly important both in curriculum design, in supporting the delivery of programmes and in graduate recruitment.

Job growth as measured through net jobs created and the job creation rate (Table 6.2) was less evenly distributed across the LEPs. Instead, job creation over 2013 to 2014 was higher in some LEPs (e.g. Stoke-on-Trent LEP) than others (e.g. Enterprise M3 LEP). For HEIs low job creation rates may present problems where there is no new local demand for graduates (this of course assumes limited inter-LEP labour mobility). This not only creates difficulties for graduates, but it also may lead to a disconnect between HEIs and local enterprises as there is limited reason for engagement in the delivery of graduate education.

Data on the survival rate of start-up enterprises (Table 6.3) and the proportion of start-ups achieving high growth (Table 6.3) again highlight variations across the LEPs. Where start-up rates are higher (e.g. London LEP as compared to Cumbria LEP with the lowest start-up rate) this reflects a creative local environment with new enterprises being formed often based on innovative business concepts. Of course, during this period national data highlights that much of the employment growth during this period was self-employment with an accompanying decline in economic inactivity rates.

For HEIs start-up rates provide a good indication of the entrepreneurial capacity and potential of a LEP. These enterprises stimulate employment and associated demand for education and skills. Higher rates therefore reflect a more vibrant LEP and the potential for graduates to enter self-employment. HEIs can actively nurture entrepreneurial skills among all graduates and provide CPD training to those entering self-employment for the first time. In a vibrant local entrepreneurial environment this may also stimulate university spin-out activity, especially as most of these businesses in the early period following formation remain close to the HEI.

5.7 Innovation Activity of SMEs

The empirical evidence suggests that significant differences exist in the propensity of SMEs to innovate across the LEPs. In other words, LEPs with higher product/service innovation also have higher process innovation. The implication of this for HEIs is that engagement with SMEs is likely to be higher in those LEPs with higher innovation rates. Innovation-active SMEs are better able to identify and access HEI-based expertise as well as adapt and exploit knowledge gained. Indeed as this capability increases (absorptive capacity), the nature of HEI engagement is likely to move from being based on the uni-directional transfer of knowledge as with consultancy and to a lesser extent contract research, and instead move towards more interactive forms of engagement such as collaborative research.

In lower innovation-active LEPs, the potential to form interactive local HEI-business engagement will be lower than for more innovation-active LEPs.

These innovation capability indicators are a good indicator of the potential for HEI-enterprise engagement in a LEP.

Significant positive correlations between R&D activity and rates of external knowledge sourcing are found across the LEPs. It is likely that these LEPs also record higher rates of HEI-enterprise engagement. Empirical research has found that for small enterprises in particular, where a strategic decision is made to collaborate with a HEI for innovation, then assuming there is a local HEI providing the necessary expertise, then this relationship will remain local. For larger enterprises, again if the HEI expertise is available locally then these enterprises will engage with local HEIs, however these larger enterprises are more likely to search beyond the confines of the LEP.

Section 6: Data tables

Table 1.1: Number of firms by employment size-band

size 0-4 5-9 10-24 25-49 50-249 **Total LEP** No. No. No. No. No. No. 21,900 2,580 822 661 **Black Country** 3,598 29,561 **Buckinghamshire Thames Valley** 23,442 2,649 1,601 466 413 28,571 Cheshire and Warrington 33,852 4,100 2,517 803 605 41,877 77,767 Coast to Capital 62,895 7,814 4,577 1,463 1,018 Cornwall and the Isles of Scilly 17,808 2,740 1,676 464 280 22,968 Coventry and Warwickshire 26,405 3,364 2.223 684 507 33,183 Cumbria 18,365 2,332 1,517 460 313 22,987 Derby, Derbyshire, Nottingham and Nottinghamshire, 43,306 6,300 4,217 1,383 1,031 56,237 2.087 428 30,420 Dorset 23,732 3,526 647 Enterprise M3 56,449 6,753 4,101 1,226 1,052 69,581 Gloucestershire 21,483 3,015 1,871 550 436 27,355 Greater Birmingham and Solihull 3,658 1,177 951 50,982 39,525 5,671 Greater Cambridge & Greater Peterborough 3,221 1,044 822 47,790 37,496 5,207 Greater Lincolnshire 25,258 3,719 2,260 741 519 32,497 **Greater Manchester** 65,977 2,057 1,570 85,566 9,524 6,438 Heart of the South West 54,343 7,566 4,644 1,417 929 68,899 Hertfordshire 33,826 4,121 2,401 789 625 41,762 Humber 407 18,232 2,909 1,901 567 24,016 Lancashire 37,412 5,716 3,619 1,250 830 48,827 Leeds City Region 66,430 9,942 6,549 2,104 1,672 86,697 Leicester and Leicestershire 28,464 4,249 2,666 855 620 36,854 Liverpool City Region 27,588 4,455 2,925 971 728 36,667 London 348,652 41,023 25,601 8,367 6,934 430,577 New Anglia 44,243 6,706 4,052 1,310 869 57,180 North Eastern 36,477 5,961 3,889 1,212 910 48,449 Northamptonshire 24,078 1,839 619 465 29,889 2,888 Oxfordshire LEP 23,272 3,243 1,961 620 487 29,583 Sheffield City Region 29,851 4,808 3,235 1,045 826 39,765 Solent 5,077 3,250 938 33,725 696 43,686 South East 118,573 16,032 9,788 2,957 2,172 149,522 South East Midlands 56,340 6,881 4,420 1,478 1,119 70,238 Stoke-on-Trent and Staffordshire 715 470 24,497 3,680 2,262 31,624 Swindon and Wiltshire 22,317 2,767 439 1,758 541 27,822 Tees Valley 373 325 12,147 1,646 1,240 15,731 Thames Valley Berkshire 32,662 3,614 2,398 895 716 40,285 23,741 554 437 The Marches 3,205 1,834 29,771 West of England 610 32,109 4,504 2,902 937 41,062 Worcestershire 18,548 2,544 1,595 498 391 23,576 York and North Yorkshire 671 420 37,598 29,854 4,134 2,519

Table 1.2: Employment in LEPs by employment size-band

size **LEP** 0-4 5-9 10-24 25-49 50-249 Total Black Country 32,839 23,386 38,368 28,345 65,240 188,178 **Buckinghamshire Thames Valley** 31,616 17,297 23,765 15,955 41,258 129,891 Cheshire and Warrington 45.673 26.579 37.616 27.528 60.627 198.023 Coast to Capital 88,564 50,880 67,957 49,745 100,109 357,255 Cornwall and the Isles of Scilly 21,950 17,798 24,862 15,565 26,871 107,046 Coventry and Warwickshire 36.489 21,855 32.806 23,218 50,899 165,267 Cumbria 22,970 15,207 22,440 15,436 31,455 107,508 Derby, Derbyshire, Nottingham and Nottinghamshire, 61,834 41,048 62,958 47,537 104,059 317,436 Dorset 33,727 23,005 30,759 22,119 42,231 151,841 Enterprise M3 77,311 43,852 60,639 41,914 108,080 331,796 Gloucestershire 29,196 19,513 27,800 18,545 43,005 138,059 Greater Birmingham and Solihull 57,287 36,949 54,070 40,275 95,678 284,259 Greater Cambridge & Greater Peterborough 50,930 33,755 48,016 35,489 82,949 251,139 Greater Lincolnshire 34,090 24,127 33,730 24,887 51,824 168,658 Greater Manchester 95,002 62,053 95,544 70,189 157,773 480,561 Heart of the South West 68,526 49,232 68,875 48,245 90,314 325,192 Hertfordshire 46,834 26,644 35,448 26,833 64,674 200,433 Humber 26,222 18,827 28,304 19,362 39,311 132,026 Lancashire 53,538 37,305 53,800 42,736 83,846 271,225 Leeds City Region 94,046 64,671 97,503 71,582 165,336 493,138 Leicester and Leicestershire 39,057 27,630 40,185 29,144 61,778 197,794 Liverpool City Region 41,665 29,216 43,677 33,209 70,946 218,713 London 483,093 267,034 379,496 286,483 697,563 2,113,669 New Anglia 61,042 43,629 60,300 44,909 84,409 294,289 North Eastern 53,272 38,745 57,825 41,435 90,365 281,642 Northamptonshire 30,869 18,805 27,441 21,085 47,384 145,584 Oxfordshire LEP 31,607 21,332 28,916 20,925 50,968 153,748 Sheffield City Region 43,639 31,277 48,465 35,945 81,889 241,215 Solent 48,209 33,105 48,279 31,969 68,609 230,171 South East 168,571 104,205 144,785 101,218 213,421 732,200 South East Midlands 76,772 44,800 66,044 50,531 111,239 349,386 Stoke-on-Trent and Staffordshire 34,385 23,892 33,440 24,068 45,089 160,874 Swindon and Wiltshire 30,115 17,832 25,779 18,327 44,864 136,917 Tees Valley 17,550 10,718 18,829 12,793 32,848 92,738 Thames Valley Berkshire 45,561 23,537 35,733 30,571 71,086 206,488 45,034 141,503 The Marches 29,484 20,859 27,001 19,125 West of England 44,107 29,335 42,904 32,318 59,808 208,472 Worcestershire 25,070 16,478 23,433 17,132 38,748 120,861 York and North Yorkshire 38,601 26,843 37,436 22,809 40,732 166,421

Table 1.3: Turnover in LEPs by employment size-band

| LEP | 0-4 | 5-9 | 10-24 | 25-49 | 50-249 | Total |
|--|-------------|-------------|------------|-------------|-------------|-------------|
| | | | | | | |
| Black Country | 4,036,546 | 2,416,271 | 4,108,221 | 3,890,400 | 7,785,337 | 22,236,775 |
| Buckinghamshire Thames Valley | 4,065,386 | 2,442,463 | 3,460,109 | 2,041,178 | 6,701,694 | 18,710,830 |
| Cheshire and Warrington | 5,916,412 | 3,395,793 | 4,290,827 | 3,278,873 | 10,930,911 | 27,812,816 |
| Coast to Capital | 11,076,317 | 5,927,405 | 7,046,224 | 6,165,114 | 15,663,720 | 45,878,780 |
| Cornwall and the Isles of Scilly | 2,505,902 | 1,227,388 | 1,639,846 | 1,012,646 | 2,686,214 | 9,071,996 |
| Coventry and Warwickshire | 4,686,152 | 2,146,558 | 3,779,823 | 3,040,151 | 6,910,461 | 20,563,145 |
| Cumbria Derby, Derbyshire, Nottingham and | 2,590,233 | 1,118,606 | 1,688,446 | 1,312,770 | 2,760,673 | 9,470,728 |
| Nottinghamshire, | 6,793,320 | 6,342,194 | 5,945,557 | 8,473,126 | 12,051,221 | 39,605,418 |
| Dorset | 3,795,762 | 1,932,463 | 2,716,954 | 2,065,045 | 3,868,880 | 14,379,104 |
| Enterprise M3 | 15,032,817 | 5,507,919 | 7,874,296 | 5,343,698 | 20,405,966 | 54,164,696 |
| Gloucestershire | 3,557,186 | 2,033,078 | 2,645,613 | 8,550,199 | 4,440,571 | 21,226,647 |
| Greater Birmingham and Solihull | 6,885,666 | 4,099,445 | 6,374,980 | 5,291,665 | 9,912,287 | 32,564,043 |
| Greater Cambridge & Greater Peterborough | 6,597,164 | 3,338,378 | 6,031,440 | 4,730,770 | 10,110,834 | 30,808,586 |
| Greater Lincolnshire | 4,168,992 | 2,170,683 | 3,041,583 | 2,422,740 | 6,396,073 | 18,200,071 |
| Greater Manchester | 11,755,198 | 6,106,063 | 10,165,877 | 8,045,912 | 20,924,109 | 56,997,159 |
| Heart of the South West | 8,379,246 | 3,930,290 | 5,337,769 | 3,880,994 | 8,492,154 | 30,020,453 |
| Hertfordshire | 10,188,004 | 3,265,658 | 5,327,029 | 3,958,357 | 15,599,953 | 38,339,001 |
| Humber | 3,204,387 | 1,704,922 | 3,249,016 | 3,018,025 | 6,049,967 | 17,226,317 |
| Lancashire | 6,240,578 | 3,418,536 | 4,751,594 | 4,491,968 | 15,471,858 | 34,374,534 |
| Leeds City Region | 11,570,453 | 6,258,468 | 9,742,087 | 8,816,609 | 23,614,495 | 60,002,112 |
| Leicester and Leicestershire | 4,873,193 | 2,541,657 | 4,192,258 | 3,604,303 | 6,467,552 | 21,678,963 |
| Liverpool City Region | 4,805,852 | 2,403,153 | 4,301,290 | 4,854,217 | 9,480,301 | 25,844,813 |
| London | 122,631,541 | 100,937,796 | 95,731,091 | 104,511,271 | 240,460,659 | 664,272,358 |
| New Anglia | 7,237,193 | 3,948,528 | 6,218,045 | 4,614,614 | 10,311,853 | 32,330,233 |
| North Eastern | 6,048,596 | 3,015,748 | 4,848,363 | 3,715,663 | 10,552,578 | 28,180,948 |
| Northamptonshire | 3,621,426 | 1,932,331 | 3,027,055 | 2,417,320 | 5,152,200 | 16,150,332 |
| Oxfordshire LEP | 4,084,124 | 2,260,621 | 3,300,929 | 3,016,607 | 7,476,110 | 20,138,391 |
| Sheffield City Region | 4,973,113 | 2,735,513 | 4,626,782 | 3,645,928 | 10,216,780 | 26,198,116 |
| Solent | 6,426,478 | 3,110,585 | 4,697,464 | 3,562,284 | 9,890,011 | 27,686,822 |
| South East | 21,377,029 | 11,173,873 | 15,210,963 | 11,632,830 | 22,648,835 | 82,043,530 |
| South East Midlands | 9,944,884 | 5,202,917 | 7,298,905 | 6,551,508 | 15,055,941 | 44,054,155 |
| Stoke-on-Trent and Staffordshire | 7,016,866 | 2,462,611 | 3,321,106 | 2,520,260 | 4,805,873 | 20,126,716 |
| Swindon and Wiltshire | 3,787,995 | 2,096,690 | 2,622,092 | 2,186,018 | 7,465,213 | 18,158,008 |
| Tees Valley | 1,977,915 | 1,225,142 | 1,582,255 | 1,097,798 | 3,819,329 | 9,702,439 |
| Thames Valley Berkshire | 7,242,000 | 3,386,992 | 6,099,566 | 4,494,412 | 14,403,923 | 35,626,893 |
| The Marches | 3,906,833 | 1,970,525 | 2,569,323 | 2,075,485 | 4,944,930 | 15,467,096 |
| West of England | 5,611,844 | 2,546,894 | 3,975,398 | 2,851,425 | 7,130,569 | 22,116,130 |
| Worcestershire | 3,045,758 | 1,617,420 | 2,470,146 | 1,896,409 | 3,836,770 | 12,866,503 |
| York and North Yorkshire | 7,014,146 | 2,749,806 | 3,853,348 | 3,118,679 | 5,936,815 | 22,672,794 |

Table 2.1: Number of firms by Broad Sector

| | Manufacturi ng | Business Services | Personal Services | Public Services | Total |
|--|-------------------|----------------------|----------------------|--------------------|-----------------|
| LEP | No. | No. | No. | No. | No. |
| Black Country | 3,403 | 6,261 | 1,909 | 1,940 | 13,513 |
| Buckinghamshire Thames Valley | 1,349 | 9,961 | 2,061 | 1,540 | 14,911 |
| Cheshire and Warrington | 1,993 | 15,487 | 2,578 | 2,352 | 22,410 |
| Coast to Capital | 3,487 | 24,919 | 5,682 | 4,920 | 39,008 |
| Cornwall and the Isles of Scilly | 1,164 | 4,258 | 1,385 | 1,278 | 8,085 |
| Coventry and Warwickshire | 2,213 | 10,047 | 2,147 | 1,913 | 16,320 |
| Cumbria Derby, Derbyshire, Nottingham and Nottinghamshire, | 1,082 4,278 | 5,016 14,482 | 1,325 3,651 | 1,288 3,840 | 8,711 26,251 |
| Dorset | 1,930 | 7,683 | 2,096 | 1,825 | 13,534 |
| Enterprise M3 | 3,160 | 24,130 | 4,883 | 3,663 | 35,836 |
| Gloucestershire | 1,609 | 7,828 | 1,784 | 1,668 | 12,889 |
| Greater Birmingham and Solihull | 3,550 | 14,864 | 3,269 | 3,858 | 25,541 |
| Greater Cambridge & Greater Peterborough | 2,866 | 13,634 | 3,236 | 2,955 | 22,691 |
| Greater Lincolnshire | 1,867 | 6,818 | 1,870 | 1,922 | 12,477 |
| Greater Manchester | 5,639 | 25,314 | 5,788 | 5,520 | 42,261 |
| Heart of the South West | 3,738 | 14,893 | 4,182 | 4,224 | 27,037 |
| Hertfordshire | 2,107 | 13,338 | 2,644 | 2,229 | 20,318 |
| Humber | 1,742 | 5,256 | 1,572 | 1,533 | 10,103 |
| Lancashire | 3,542 | 11,467 | 3,331 | 3,106 | 21,446 |
| Leeds City Region | 6,419 | 22,318 | 5,693 | 5,422 | 39,852 |
| Leicester and Leicestershire | 3,241 | 9,320 | 2,251 | 2,459 | 17,271 |
| Liverpool City Region | 2,254 | 10,534 | 3,032 | 2,763 | 18,583 |
| London | 13,076 | 162,378 | 32,467 | 24,724 | 232,645 |
| New Anglia | 3,576 | 13,732 | 3,870 | 3,608 | 24,786 |
| North Eastern | 3,069 | 11,835 | 3,602 | 3,146 | 21,652 |
| Northamptonshire | 1,912 | 7,738 | 3,327 | 1,787 | 14,764 |
| Oxfordshire LEP | 1,385 | 9,566 | 2,303 | 1,904 | 15,158 |
| Sheffield City Region | 3,227 | 8,969 | 2,683 | 2,717 | 17,596 |
| Solent | 2,790 | 12,162 | 3,171 | 2,761 | 20,884 |
| South East | 8,544 | 41,328 | 9,501 | 9,325 | 68,698 |
| South East Midlands | 4,057 | 20,558 | 4,456 | 4,349 | 33,420 |
| Stoke-on-Trent and Staffordshire | 2,530 | 7,032 | 2,130 | 1,887 | 13,579 |
| Swindon and Wiltshire | 1,438 | 7,999 | 1,910 | 1,739 | 13,086 |
| Tees Valley | 1,014 | 5,096 | 1,144 | 1,048 | 8,302 |
| Thames Valley Berkshire | 1,677 | 13,646 | 2,656 | 2,083 | 20,062 |
| The Marches | 1,770 | 6,658 | 1,703 | 1,651 | 11,782 |
| West of England | 2,052 | 12,687 | 2,796 | 2,605 | 20,140 |
| Worcestershire | 1,686 | 6,522 | 1,490 | 1,373 | 11,071 |
| York and North Yorkshire | 1,945 | 8,611 | 2,293 | 2,052 | 14,901 |

Table 2.2: Employment in LEPs by broad sector

| | Manufacturi ng | Business Services | Personal Services | Public Services | Total |
|--|-------------------|----------------------|----------------------|--------------------|-------------------|
| Black Country | 47,073 | 28,562 | 8,569 | 28,812 | 113,016 |
| Buckinghamshire Thames Valley | 11,228 | 29,951 | 8,604 | 22,210 | 71,993 |
| Cheshire and Warrington | 19,743 | 52,078 | 12,053 | 28,000 | 111,874 |
| Coast to Capital | 26,445 | 83,600 | 24,636 | 64,474 | 199,155 |
| Cornwall and the Isles of Scilly | 8,767 | 15,486 | 6,977 | 17,417 | 48,647 |
| Coventry and Warwickshire | 23,087 | 34,757 | 10,847 | 26,287 | 94,978 |
| Cumbria Derby, Derbyshire, Nottingham and Nottinghamshire, | 9,390 51,215 | 15,203 58,047 | 6,284 18,284 | 18,848 55,578 | 49,725 183,124 |
| Dorset | 18,166 | 27,392 | 10,137 | 24,664 | 80,359 |
| Enterprise M3 | 25,241 | 83,761 | 23,500 | 51,693 | 184,195 |
| Gloucestershire | 17,513 | 28,926 | 8,141 | 23,628 | 78,208 |
| Greater Birmingham and Solihull | 37,383 | 59,763 | 17,902 | 51,368 | 166,416 |
| Greater Cambridge & Greater Peterborough | 32,118 | 53,762 | 14,937 | 40,914 | 141,731 |
| Greater Lincolnshire | 19,053 | 27,986 | 8,874 | 27,088 | 83,001 |
| Greater Manchester | 65,404 | 110,921 | 27,913 | 70,201 | 274,439 |
| Heart of the South West | 34,203 | 54,650 | 20,051 | 59,163 | 168,067 |
| Hertfordshire | 18,346 | 48,257 | 12,925 | 28,778 | 108,306 |
| Humber | 21,561 | 20,260 | 7,080 | 19,484 | 68,385 |
| Lancashire | 40,299 | 48,613 | 15,543 | 41,184 | 145,639 |
| Leeds City Region | 80,264 | 97,678 | 27,213 | 76,002 | 281,157 |
| Leicester and Leicestershire | 36,476 | 34,099 | 12,471 | 32,544 | 115,590 |
| Liverpool City Region | 25,556 | 44,710 | 14,858 | 42,549 | 127,673 |
| London | 81,399 | 650,947 | 143,382 | 293,067 | 1,168,795 |
| New Anglia | 36,302 | 52,523 | 18,812 | 44,241 | 151,878 |
| North Eastern | 40,646 | 49,665 | 19,083 | 47,109 | 156,503 |
| Northamptonshire | 23,079 | 29,088 | 9,778 | 25,430 | 87,375 |
| Oxfordshire LEP | 13,776 | 36,705 | 10,136 | 27,273 | 87,890 |
| Sheffield City Region | 39,900 | 40,541 | 12,913 | 43,022 | 136,376 |
| Solent | 24,081 | 45,083 | 16,406 | 42,461 | 128,031 |
| South East | 73,051 | 150,229 | 44,596 | 135,033 | 402,909 |
| South East Midlands | 44,851 | 75,782 | 21,524 | 60,723 | 202,880 |
| Stoke-on-Trent and Staffordshire | 26,578 | 28,733 | 9,586 | 25,907 | 90,804 |
| Swindon and Wiltshire | 13,194 | 29,163 | 8,108 | 25,365 | 75,830 |
| Tees Valley | 10,261 | 19,822 | 6,057 | 17,748 | 53,888 |
| Thames Valley Berkshire | 13,626 | 54,163 | 13,285 | 29,409 | 110,483 |
| The Marches | 19,846 | 23,954 | 7,908 | 23,779 | 75,487 |
| West of England | 17,048 | 49,722 | 13,970 | 34,383 | 115,123 |
| Worcestershire | 16,742 | 23,885 | 7,651 | 19,967 | 68,245 |
| York and North Yorkshire | 18,004 | 27,028 | 10,151 | 22,140 | 77,323 |

Table 2.3: Turnover in LEPs by broad sector

| LEP | Manufacturi ng | Business Services | Personal Services | Public Services | Total |
|--|------------------------|------------------------|----------------------|----------------------|-------------------------|
| Black Country | 5,536,655 | 2,693,130 | 460,147 | 1,228,935 | 9,918,867 |
| Buckinghamshire Thames Valley | 1,390,236 | 3,564,497 | 581,159 | 911,825 | 6,447,717 |
| Cheshire and Warrington | 3,869,288 | 6,898,019 | 702,353 | 1,191,575 | 12,661,235 |
| Coast to Capital | 3,874,192 | 9,750,439 | 1,563,438 | 3,130,275 | 18,318,344 |
| Cornwall and the Isles of Scilly | 889,003 | 1,034,006 | 283,818 | 814,524 | 3,021,351 |
| Coventry and Warwickshire | 2,963,392 | 3,897,222 | 706,542 | 1,095,338 | 8,662,494 |
| Cumbria Derby, Derbyshire, Nottingham and Nottinghamshire, | 1,043,026 6,323,144 | 1,282,897 5,029,982 | 306,282 786,105 | 805,520 2,512,065 | 3,437,725 14,651,296 |
| Dorset | 1,873,718 | 2,653,525 | 516,852 | 1,132,524 | 6,176,619 |
| Enterprise M3 | 3,919,360 | 12,098,797 | 1,652,300 | 2,242,515 | 19,912,972 |
| Gloucestershire | 2,112,486 | 2,639,388 | 397,040 | 1,087,686 | 6,236,600 |
| Greater Birmingham and Solihull | 4,440,302 | 5,446,802 | 1,070,368 | 2,230,303 | 13,187,775 |
| Greater Cambridge & Greater Peterborough | 4,319,045 | 5,477,351 | 852,230 | 1,849,931 | 12,498,557 |
| Greater Lincolnshire | 2,815,599 | 1,831,200 | 419,896 | 1,144,728 | 6,211,423 |
| Greater Manchester | 8,238,473 | 11,408,695 | 1,740,475 | 3,311,711 | 24,699,354 |
| Heart of the South West | 4,099,448 | 4,407,031 | 872,550 | 2,565,687 | 11,944,716 |
| Hertfordshire | 2,678,410 | 5,103,222 | 781,472 | 1,345,023 | 9,908,127 |
| Humber | 3,253,909 | 2,164,806 | 351,343 | 840,472 | 6,610,530 |
| Lancashire | 4,706,192 | 4,059,615 | 988,113 | 1,743,807 | 11,497,727 |
| Leeds City Region | 9,731,793 | 10,512,697 | 1,391,838 | 3,294,706 | 24,931,034 |
| Leicester and Leicestershire | 3,904,840 | 3,837,317 | 635,811 | 1,383,419 | 9,761,387 |
| Liverpool City Region | 5,302,390 | 4,466,905 | 755,605 | 1,841,118 | 12,366,018 |
| London | 11,551,645 | 108,900,048 | 15,579,293 | 14,474,807 | 150,505,793 |
| New Anglia | 4,511,741 | 5,024,820 | 916,593 | 2,152,219 | 12,605,373 |
| North Eastern | 4,818,802 | 4,209,706 | 890,838 | 2,124,032 | 12,043,378 |
| Northamptonshire | 3,272,731 | 2,643,243 | 562,586 | 1,048,103 | 7,526,663 |
| Oxfordshire LEP | 2,003,126 | 4,297,168 | 777,841 | 1,183,605 | 8,261,740 |
| Sheffield City Region | 4,837,088 | 3,538,580 | 586,377 | 1,858,046 | 10,820,091 |
| Solent | 2,661,371 | 4,331,480 | 819,716 | 1,829,605 | 9,642,172 |
| South East | 8,836,289 | 14,622,333 | 2,391,894 | 6,042,590 | 31,893,106 |
| South East Midlands | 6,879,088 | 8,407,259 | 1,378,950 | 2,675,570 | 19,340,867 |
| Stoke-on-Trent and Staffordshire | 3,213,326 | 2,469,202 | 554,348 | 1,073,397 | 7,310,273 |
| Swindon and Wiltshire | 1,431,757 | 2,935,911 | 451,255 | 1,064,270 | 5,883,193 |
| Tees Valley | 1,979,109 | 1,823,609 | 254,492 | 825,036 | 4,882,246 |
| Thames Valley Berkshire | 2,153,801 | 7,188,849 | 1,052,094 | 1,420,812 | 11,815,556 |
| The Marches | 2,909,233 | 2,103,694 | 373,331 | 1,046,401 | 6,432,659 |
| West of England | 1,940,032 | 4,897,103 | 687,763 | 1,553,694 | 9,078,592 |
| Worcestershire | 2,077,780 | 2,150,502 | 419,918 | 846,931 | 5,495,131 |
| York and North Yorkshire | 2,448,321 | 3,184,908 | 541,753 | 997,779 | 7,172,761 |

Table 3.1: Number of manufacturing firms by technological intensity

| | • • • | | | | | | _ | |
|-----|-------|---|----|----|---|----|----|--|
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| . 1 | ЭH | | LC | | | | | |

| | recir intensity | | | | |
|--|-----------------|----------|---------|-------|--------|
| LEP | High | Med-high | Med-low | Low | Total |
| | No. | No. | No. | No. | No. |
| Black Country | 64 | 709 | 1,621 | 1,009 | 3,403 |
| Buckinghamshire Thames Valley | 118 | 296 | 348 | 587 | 1,349 |
| Cheshire and Warrington | 126 | 507 | 587 | 773 | 1,993 |
| Coast to Capital | 298 | 749 | 869 | 1,571 | 3,487 |
| Cornwall and the Isles of Scilly | 45 | 261 | 318 | 540 | 1,164 |
| Coventry and Warwickshire | 107 | 612 | 817 | 677 | 2,213 |
| Cumbria | 40 | 214 | 360 | 468 | 1,082 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 176 | 1,055 | 1,289 | 1,758 | 4,278 |
| Dorset | 127 | 435 | 613 | 755 | 1,930 |
| Enterprise M3 | 298 | 836 | 805 | 1,221 | 3,160 |
| Gloucestershire | 84 | 356 | 571 | 598 | 1,609 |
| Greater Birmingham and Solihull | 125 | 841 | 1,237 | 1,347 | 3,550 |
| Greater Cambridge & Greater Peterborough | 312 | 653 | 774 | 1,127 | 2,866 |
| Greater Lincolnshire | 52 | 522 | 571 | 722 | 1,867 |
| Greater Manchester | 273 | 1,315 | 1,629 | 2,422 | 5,639 |
| Heart of the South West | 169 | 814 | 1,056 | 1,699 | 3,738 |
| Hertfordshire | 194 | 466 | 540 | 907 | 2,107 |
| Humber | 45 | 461 | 571 | 665 | 1,742 |
| Lancashire | 101 | 813 | 1,075 | 1,553 | 3,542 |
| Leeds City Region | 225 | 1,420 | 1,878 | 2,896 | 6,419 |
| Leicester and Leicestershire | 122 | 654 | 815 | 1,650 | 3,241 |
| Liverpool City Region | 89 | 551 | 709 | 905 | 2,254 |
| London | 724 | 2,433 | 2,168 | 7,751 | 13,076 |
| New Anglia | 180 | 866 | 1,022 | 1,508 | 3,576 |
| North Eastern | 124 | 767 | 981 | 1,197 | 3,069 |
| Northamptonshire | 96 | 520 | 532 | 764 | 1,912 |
| Oxfordshire LEP | 138 | 322 | 311 | 614 | 1,385 |
| Sheffield City Region | 137 | 767 | 1,270 | 1,053 | 3,227 |
| Solent | 204 | 791 | 949 | 846 | 2,790 |
| South East | 478 | 1,980 | 2,392 | 3,694 | 8,544 |
| South East Midlands | 278 | 1,099 | 1,161 | 1,519 | 4,057 |
| Stoke-on-Trent and Staffordshire | 99 | 656 | 902 | 873 | 2,530 |
| Swindon and Wiltshire | 103 | 349 | 375 | 611 | 1,438 |
| Tees Valley | 49 | 219 | 410 | 336 | 1,014 |
| Thames Valley Berkshire | 196 | 421 | 426 | 634 | 1,677 |
| The Marches | 69 | 385 | 590 | 726 | 1,770 |
| West of England | 107 | 534 | 614 | 797 | 2,052 |
| Worcestershire | 93 | 433 | 570 | 590 | 1,686 |
| York and North Yorkshire | 79 | 453 | 508 | 905 | 1,945 |
| | | | | | |

Table 3.2: Employment in LEPs by manufacturing technological intensity

Tech Intensity

| | recirintensity | | | | |
|--|----------------|----------|---------|--------|--------|
| LEP | High | Med-high | Med-low | Low | Total |
| Black Country | 490 | 10,632 | 25,471 | 10,480 | 47,073 |
| Buckinghamshire Thames Valley | 1,391 | 2,388 | 3,101 | 4,348 | 11,228 |
| Cheshire and Warrington | 1,168 | 5,706 | 5,680 | 7,189 | 19,743 |
| Coast to Capital | 4,419 | 6,489 | 6,129 | 9,408 | 26,445 |
| Cornwall and the Isles of Scilly | 466 | 1,743 | 2,436 | 4,122 | 8,767 |
| Coventry and Warwickshire | 1,117 | 8,856 | 8,579 | 4,535 | 23,087 |
| Cumbria | 661 | 1,365 | 2,903 | 4,461 | 9,390 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 2,327 | 12,663 | 18,744 | 17,481 | 51,215 |
| Dorset | 1,374 | 4,533 | 6,386 | 5,873 | 18,166 |
| Enterprise M3 | 2,898 | 8,375 | 6,972 | 6,996 | 25,241 |
| Gloucestershire | 1,144 | 4,474 | 6,723 | 5,172 | 17,513 |
| Greater Birmingham and Solihull | 895 | 11,079 | 14,865 | 10,544 | 37,383 |
| Greater Cambridge & Greater Peterborough | 4,508 | 8,582 | 8,614 | 10,414 | 32,118 |
| Greater Lincolnshire | 688 | 5,765 | 5,460 | 7,140 | 19,053 |
| Greater Manchester | 3,415 | 17,182 | 20,183 | 24,624 | 65,404 |
| Heart of the South West | 1,738 | 7,392 | 10,130 | 14,943 | 34,203 |
| Hertfordshire | 2,828 | 4,769 | 4,334 | 6,415 | 18,346 |
| Humber | 482 | 5,958 | 7,556 | 7,565 | 21,561 |
| Lancashire | 771 | 10,068 | 12,569 | 16,891 | 40,299 |
| Leeds City Region | 2,249 | 17,969 | 24,487 | 35,559 | 80,264 |
| Leicester and Leicestershire | 1,928 | 8,421 | 9,173 | 16,954 | 36,476 |
| Liverpool City Region | 1,233 | 6,966 | 9,134 | 8,223 | 25,556 |
| London | 5,340 | 14,863 | 14,659 | 46,537 | 81,399 |
| New Anglia | 1,731 | 10,539 | 10,539 | 13,493 | 36,302 |
| North Eastern | 2,270 | 10,633 | 14,694 | 13,049 | 40,646 |
| Northamptonshire | 1,523 | 5,506 | 5,820 | 10,230 | 23,079 |
| Oxfordshire LEP | 1,678 | 3,880 | 3,256 | 4,962 | 13,776 |
| Sheffield City Region | 2,048 | 7,431 | 20,225 | 10,196 | 39,900 |
| Solent | 2,379 | 7,488 | 8,373 | 5,841 | 24,081 |
| South East | 5,209 | 18,428 | 22,732 | 26,682 | 73,051 |
| South East Midlands | 4,254 | 12,903 | 13,370 | 14,324 | 44,851 |
| Stoke-on-Trent and Staffordshire | 1,236 | 6,653 | 11,800 | 6,889 | 26,578 |
| Swindon and Wiltshire | 1,288 | 3,466 | 3,562 | 4,878 | 13,194 |
| Tees Valley | 497 | 3,027 | 3,674 | 3,063 | 10,261 |
| Thames Valley Berkshire | 2,115 | 4,148 | 3,654 | 3,709 | 13,626 |
| The Marches | 738 | 4,451 | 7,681 | 6,976 | 19,846 |
| West of England | 1,280 | 4,983 | 4,692 | 6,093 | 17,048 |
| Worcestershire | 1,033 | 5,232 | 5,778 | 4,699 | 16,742 |
| York and North Yorkshire | 787 | 5,121 | 4,293 | 7,803 | 18,004 |

Table 3.3: Turnover in LEPs by manufacturing technological intensity

Tech Intensity

| | recirintensity | | | | |
|--|----------------|-----------|-----------|-----------|------------|
| LEP | High | Med-high | Med-low | Low | Total |
| Black Country | 50,823 | 1,285,945 | 3,096,593 | 1,103,294 | 5,536,655 |
| Buckinghamshire Thames Valley | 234,602 | 262,188 | 430,621 | 462,825 | 1,390,236 |
| Cheshire and Warrington | 167,801 | 1,304,287 | 1,022,428 | 1,374,772 | 3,869,288 |
| Coast to Capital | 680,725 | 1,330,019 | 962,309 | 901,139 | 3,874,192 |
| Cornwall and the Isles of Scilly | 38,861 | 208,289 | 229,886 | 411,967 | 889,003 |
| Coventry and Warwickshire | 104,707 | 1,311,138 | 1,086,671 | 460,876 | 2,963,392 |
| Cumbria | 55,136 | 183,785 | 317,219 | 486,886 | 1,043,026 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 300,911 | 1,938,465 | 2,386,994 | 1,696,774 | 6,323,144 |
| Dorset | 163,754 | 513,504 | 624,573 | 571,887 | 1,873,718 |
| Enterprise M3 | 447,774 | 2,084,528 | 671,966 | 715,092 | 3,919,360 |
| Gloucestershire | 182,255 | 591,900 | 761,854 | 576,477 | 2,112,486 |
| Greater Birmingham and Solihull | 86,800 | 1,400,579 | 1,824,590 | 1,128,333 | 4,440,302 |
| Greater Cambridge & Greater Peterborough | 674,177 | 1,590,817 | 907,667 | 1,146,384 | 4,319,045 |
| Greater Lincolnshire | 124,699 | 959,149 | 779,713 | 952,038 | 2,815,599 |
| Greater Manchester | 398,750 | 3,047,496 | 2,147,069 | 2,645,158 | 8,238,473 |
| Heart of the South West | 208,633 | 840,272 | 933,422 | 2,117,121 | 4,099,448 |
| Hertfordshire | 481,269 | 957,899 | 437,397 | 801,845 | 2,678,410 |
| Humber | 75,134 | 929,761 | 1,031,717 | 1,217,297 | 3,253,909 |
| Lancashire | 76,718 | 1,424,057 | 1,357,080 | 1,848,337 | 4,706,192 |
| Leeds City Region | 334,542 | 2,590,181 | 2,917,392 | 3,889,678 | 9,731,793 |
| Leicester and Leicestershire | 208,801 | 1,179,805 | 918,567 | 1,597,667 | 3,904,840 |
| Liverpool City Region | 198,354 | 1,541,358 | 2,226,582 | 1,336,096 | 5,302,390 |
| London | 1,135,231 | 2,119,245 | 2,083,326 | 6,213,843 | 11,551,645 |
| New Anglia | 218,551 | 1,271,170 | 1,144,301 | 1,877,719 | 4,511,741 |
| North Eastern | 289,211 | 1,522,348 | 1,581,686 | 1,425,557 | 4,818,802 |
| Northamptonshire | 208,840 | 756,565 | 790,476 | 1,516,850 | 3,272,731 |
| Oxfordshire LEP | 272,338 | 636,956 | 366,707 | 727,125 | 2,003,126 |
| Sheffield City Region | 191,810 | 1,002,451 | 2,552,650 | 1,090,177 | 4,837,088 |
| Solent | 284,594 | 973,232 | 868,902 | 534,643 | 2,661,371 |
| South East | 723,996 | 2,318,814 | 2,927,117 | 2,866,362 | 8,836,289 |
| South East Midlands | 619,458 | 2,344,367 | 1,690,100 | 2,225,163 | 6,879,088 |
| Stoke-on-Trent and Staffordshire | 185,344 | 963,023 | 1,202,154 | 862,805 | 3,213,326 |
| Swindon and Wiltshire | 139,570 | 408,533 | 392,856 | 490,798 | 1,431,757 |
| Tees Valley | 40,228 | 1,191,395 | 390,535 | 356,951 | 1,979,109 |
| Thames Valley Berkshire | 469,341 | 832,562 | 462,101 | 389,797 | 2,153,801 |
| The Marches | 67,966 | 579,635 | 1,125,986 | 1,135,646 | 2,909,233 |
| West of England | 171,768 | 650,980 | 468,138 | 649,146 | 1,940,032 |
| Worcestershire | 125,421 | 754,527 | 607,194 | 590,638 | 2,077,780 |
| York and North Yorkshire | 73,268 | 695,258 | 512,006 | 1,167,789 | 2,448,321 |

Table 4.1: Number of firms by Knowledge Intensity of Business Services

| LEP | Non-KIBS | KIBS | Total |
|--|----------|---------|---------|
| Black Country | 13,979 | 8,171 | 22,150 |
| Buckinghamshire Thames Valley | 9,149 | 13,644 | 22,793 |
| Cheshire and Warrington | 13,769 | 19,424 | 33,193 |
| Coast to Capital | 27,557 | 34,946 | 62,503 |
| Cornwall and the Isles of Scilly | 9,215 | 5,226 | 14,441 |
| Coventry and Warwickshire | 12,721 | 13,242 | 25,963 |
| Cumbria | 8,349 | 5,954 | 14,303 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 22,956 | 19,084 | 42,040 |
| Dorset | 11,557 | 10,241 | 21,798 |
| Enterprise M3 | 22,458 | 34,172 | 56,630 |
| Gloucestershire | 9,641 | 10,521 | 20,162 |
| Greater Birmingham and Solihull | 21,193 | 19,617 | 40,810 |
| Greater Cambridge & Greater Peterborough | 17,088 | 18,639 | 35,727 |
| Greater Lincolnshire | 13,718 | 8,314 | 22,032 |
| Greater Manchester | 35,548 | 33,909 | 69,457 |
| Heart of the South West | 25,726 | 18,893 | 44,619 |
| Hertfordshire | 14,107 | 18,877 | 32,984 |
| Humber | 10,055 | 6,423 | 16,478 |
| Lancashire | 21,311 | 14,798 | 36,109 |
| Leeds City Region | 37,065 | 29,262 | 66,327 |
| Leicester and Leicestershire | 14,968 | 12,769 | 27,737 |
| Liverpool City Region | 16,171 | 13,333 | 29,504 |
| London | 144,784 | 232,367 | 377,151 |
| New Anglia | 22,734 | 17,403 | 40,137 |
| North Eastern | 21,110 | 14,718 | 35,828 |
| Northamptonshire | 12,809 | 10,006 | 22,815 |
| Oxfordshire LEP | 10,298 | 12,760 | 23,058 |
| Sheffield City Region | 17,777 | 11,778 | 29,555 |
| Solent | 16,788 | 16,199 | 32,987 |
| South East | 55,709 | 54,757 | 110,466 |
| South East Midlands | 25,708 | 28,287 | 53,995 |
| Stoke-on-Trent and Staffordshire | 13,096 | 8,988 | 22,084 |
| Swindon and Wiltshire | 9,657 | 11,065 | 20,722 |
| Tees Valley | 6,302 | 5,887 | 12,189 |
| Thames Valley Berkshire | 12,809 | 21,041 | 33,850 |
| The Marches | 10,485 | 8,349 | 18,834 |
| West of England | 14,882 | 17,715 | 32,597 |
| Worcestershire | 8,762 | 8,410 | 17,172 |
| York and North Yorkshire | 13,730 | 10,551 | 24,281 |

Table 4.2: Employment in LEPs by Knowledge Intensity of Business Services

| LEP1 | Non-KIBS | KIBS | Total |
|--|----------|---------|-----------|
| Black Country | 90,236 | 34,052 | 124,288 |
| Buckinghamshire Thames Valley | 63,871 | 42,169 | 106,040 |
| Cheshire and Warrington | 93,410 | 64,803 | 158,213 |
| Coast to Capital | 181,963 | 113,406 | 295,369 |
| Cornwall and the Isles of Scilly | 65,627 | 18,514 | 84,141 |
| Coventry and Warwickshire | 82,730 | 44,524 | 127,254 |
| Cumbria | 64,618 | 17,749 | 82,367 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 160,650 | 73,085 | 233,735 |
| Dorset | 79,832 | 35,450 | 115,282 |
| Enterprise M3 | 157,869 | 118,269 | 276,138 |
| Gloucestershire | 67,175 | 37,260 | 104,435 |
| Greater Birmingham and Solihull | 148,312 | 76,282 | 224,594 |
| Greater Cambridge & Greater Peterborough | 117,462 | 73,558 | 191,020 |
| Greater Lincolnshire | 88,731 | 33,205 | 121,936 |
| Greater Manchester | 230,650 | 141,545 | 372,195 |
| Heart of the South West | 181,516 | 66,264 | 247,780 |
| Hertfordshire | 94,489 | 66,182 | 160,671 |
| Humber | 67,003 | 23,974 | 90,977 |
| Lancashire | 143,359 | 58,850 | 202,209 |
| Leeds City Region | 245,035 | 121,474 | 366,509 |
| Leicester and Leicestershire | 101,505 | 42,620 | 144,125 |
| Liverpool City Region | 118,363 | 52,848 | 171,211 |
| London | 964,471 | 938,803 | 1,903,274 |
| New Anglia | 152,008 | 64,697 | 216,705 |
| North Eastern | 149,560 | 59,506 | 209,066 |
| Northamptonshire | 73,088 | 35,411 | 108,499 |
| Oxfordshire LEP | 76,003 | 47,923 | 123,926 |
| Sheffield City Region | 125,311 | 51,366 | 176,677 |
| Solent | 125,060 | 57,517 | 182,577 |
| South East | 376,374 | 188,435 | 564,809 |
| South East Midlands | 173,229 | 98,305 | 271,534 |
| Stoke-on-Trent and Staffordshire | 81,265 | 35,216 | 116,481 |
| Swindon and Wiltshire | 68,588 | 38,139 | 106,727 |
| Tees Valley | 49,881 | 22,412 | 72,293 |
| Thames Valley Berkshire | 94,373 | 83,705 | 178,078 |
| The Marches | 70,999 | 28,849 | 99,848 |
| West of England | 103,113 | 67,147 | 170,260 |
| Worcestershire | 61,403 | 29,929 | 91,332 |
| York and North Yorkshire | 89,006 | 33,716 | 122,722 |

Table 4.3: Turnover in LEPs by Knowledge Intensity of Business Services

| LEP | Non-KIBS | KIBS | Total |
|--|-------------|-------------|-------------|
| Black Country | 10,608,959 | 3,490,493 | 14,099,452 |
| Buckinghamshire Thames Valley | 9,913,963 | 5,122,256 | 15,036,219 |
| Cheshire and Warrington | 12,212,215 | 8,217,680 | 20,429,895 |
| Coast to Capital | 18,743,579 | 17,178,920 | 35,922,499 |
| Cornwall and the Isles of Scilly | 4,587,539 | 1,914,899 | 6,502,438 |
| Coventry and Warwickshire | 8,950,761 | 6,236,337 | 15,187,098 |
| Cumbria | 4,862,416 | 1,451,747 | 6,314,163 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 18,046,030 | 10,720,282 | 28,766,312 |
| Dorset | 6,445,017 | 3,565,032 | 10,010,049 |
| Enterprise M3 | 27,107,541 | 17,712,645 | 44,820,186 |
| Gloucestershire | 6,123,066 | 10,802,443 | 16,925,509 |
| Greater Birmingham and Solihull | 17,051,106 | 7,641,098 | 24,692,204 |
| Greater Cambridge & Greater Peterborough | 13,665,563 | 8,021,690 | 21,687,253 |
| Greater Lincolnshire | 8,943,625 | 2,239,319 | 11,182,944 |
| Greater Manchester | 26,161,235 | 14,709,428 | 40,870,663 |
| Heart of the South West | 14,400,394 | 5,679,057 | 20,079,451 |
| Hertfordshire | 15,860,623 | 14,800,244 | 30,660,867 |
| Humber | 7,915,654 | 2,529,388 | 10,445,042 |
| Lancashire | 14,147,323 | 11,705,445 | 25,852,768 |
| Leeds City Region | 26,363,698 | 14,482,475 | 40,846,173 |
| Leicester and Leicestershire | 10,519,439 | 4,560,766 | 15,080,205 |
| Liverpool City Region | 12,314,780 | 5,377,035 | 17,691,815 |
| London | 265,836,187 | 347,932,547 | 613,768,734 |
| New Anglia | 15,541,154 | 6,493,474 | 22,034,628 |
| North Eastern | 13,798,468 | 5,295,987 | 19,094,455 |
| Northamptonshire | 7,424,515 | 3,259,572 | 10,684,087 |
| Oxfordshire LEP | 9,633,349 | 5,743,641 | 15,376,990 |
| Sheffield City Region | 11,599,136 | 6,062,643 | 17,661,779 |
| Solent | 16,107,667 | 5,585,734 | 21,693,401 |
| South East | 39,047,047 | 20,026,011 | 59,073,058 |
| South East Midlands | 20,398,057 | 11,252,087 | 31,650,144 |
| Stoke-on-Trent and Staffordshire | 8,910,481 | 5,649,096 | 14,559,577 |
| Swindon and Wiltshire | 6,443,759 | 6,964,106 | 13,407,865 |
| Tees Valley | 4,217,462 | 2,016,552 | 6,234,014 |
| Thames Valley Berkshire | 15,337,676 | 14,872,781 | 30,210,457 |
| The Marches | 6,883,923 | 2,544,097 | 9,428,020 |
| West of England | 10,063,313 | 6,750,394 | 16,813,707 |
| Worcestershire | 6,485,342 | 2,674,844 | 9,160,186 |
| York and North Yorkshire | 9,447,976 | 4,013,452 | 13,461,428 |

Table 5.1: LEPs by Creative Industries

| | Creative Industries | ; | |
|--|---------------------|--------|---------|
| LEP | Non-CI | CI | Total |
| | | | |
| Black Country | 28,021 | 1,540 | 29,561 |
| Buckinghamshire Thames Valley | 24,574 | 3,997 | 28,571 |
| Cheshire and Warrington | 38,298 | 3,579 | 41,877 |
| Coast to Capital | 66,989 | 10,778 | 77,767 |
| Cornwall and the Isles of Scilly | 21,736 | 1,232 | 22,968 |
| Coventry and Warwickshire | 30,061 | 3,122 | 33,183 |
| Cumbria | 22,098 | 889 | 22,987 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 52,042 | 4,195 | 56,237 |
| Dorset | 27,857 | 2,563 | 30,420 |
| Enterprise M3 | 59,329 | 10,252 | 69,581 |
| Gloucestershire | 24,666 | 2,689 | 27,355 |
| Greater Birmingham and Solihull | 46,584 | 4,398 | 50,982 |
| Greater Cambridge & Greater Peterborough | 42,712 | 5,078 | 47,790 |
| Greater Lincolnshire | 31,021 | 1,476 | 32,497 |
| Greater Manchester | 78,277 | 7,289 | 85,566 |
| Heart of the South West | 64,630 | 4,269 | 68,899 |
| Hertfordshire | 36,200 | 5,562 | 41,762 |
| Humber | 22,972 | 1,044 | 24,016 |
| Lancashire | 46,000 | 2,827 | 48,827 |
| Leeds City Region | 80,002 | 6,695 | 86,697 |
| Leicester and Leicestershire | 34,352 | 2,502 | 36,854 |
| Liverpool City Region | 34,089 | 2,578 | 36,667 |
| London | 349,680 | 80,897 | 430,577 |
| New Anglia | 53,236 | 3,944 | 57,180 |
| North Eastern | 45,438 | 3,011 | 48,449 |
| Northamptonshire | 27,642 | 2,247 | 29,889 |
| Oxfordshire LEP | 25,885 | 3,698 | 29,583 |
| Sheffield City Region | 37,008 | 2,757 | 39,765 |
| Solent | 39,786 | 3,900 | 43,686 |
| South East | 135,703 | 13,819 | 149,522 |
| South East Midlands | 62,796 | 7,442 | 70,238 |
| Stoke-on-Trent and Staffordshire | 156,296 | 4,578 | 160,874 |
| Swindon and Wiltshire | 24,824 | 2,998 | 27,822 |
| Tees Valley | 14,886 | 845 | 15,731 |
| Thames Valley Berkshire | 33,292 | 6,993 | 40,285 |
| The Marches | 28,055 | 1,716 | 29,771 |
| West of England | 35,923 | 5,139 | 41,062 |
| Worcestershire | 21,792 | 1,784 | 23,576 |
| York and North Yorkshire | 35,636 | 1,962 | 37,598 |
| | | | |

Table 5.2: Employment in LEPs by Creative Industries

| | Creative Industries | | |
|--|---------------------|---------|-----------|
| LEP1 | Non-CI | CI | Total |
| | | | |
| Black Country | 184,387 | 3,791 | 188,178 |
| Buckinghamshire Thames Valley | 118,283 | 11,608 | 129,891 |
| Cheshire and Warrington | 187,343 | 10,680 | 198,023 |
| Coast to Capital | 333,130 | 24,125 | 357,255 |
| Cornwall and the Isles of Scilly | 103,618 | 3,428 | 107,046 |
| Coventry and Warwickshire | 156,474 | 8,793 | 165,267 |
| Cumbria | 104,733 | 2,775 | 107,508 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 303,937 | 13,499 | 317,436 |
| Dorset | 144,532 | 7,309 | 151,841 |
| Enterprise M3 | 301,754 | 30,042 | 331,796 |
| Gloucestershire | 130,614 | 7,445 | 138,059 |
| Greater Birmingham and Solihull | 269,181 | 15,078 | 284,259 |
| Greater Cambridge & Greater Peterborough | 234,879 | 16,260 | 251,139 |
| Greater Lincolnshire | 164,380 | 4,278 | 168,658 |
| Greater Manchester | 454,805 | 25,756 | 480,561 |
| Heart of the South West | 314,627 | 10,565 | 325,192 |
| Hertfordshire | 185,984 | 14,449 | 200,433 |
| Humber | 128,670 | 3,356 | 132,026 |
| Lancashire | 263,292 | 7,933 | 271,225 |
| Leeds City Region | 470,553 | 22,585 | 493,138 |
| Leicester and Leicestershire | 190,147 | 7,647 | 197,794 |
| Liverpool City Region | 211,675 | 7,038 | 218,713 |
| London | 1,839,068 | 274,601 | 2,113,669 |
| New Anglia | 283,342 | 10,947 | 294,289 |
| North Eastern | 271,980 | 9,662 | 281,642 |
| Northamptonshire | 139,898 | 5,686 | 145,584 |
| Oxfordshire LEP | 141,577 | 12,171 | 153,748 |
| Sheffield City Region | 231,940 | 9,275 | 241,215 |
| Solent | 219,738 | 10,433 | 230,171 |
| South East | 698,492 | 33,708 | 732,200 |
| South East Midlands | 329,792 | 19,594 | 349,386 |
| Stoke-on-Trent and Staffordshire | 131,156 | 4,248 | 135,404 |
| Swindon and Wiltshire | 129,731 | 7,186 | 136,917 |
| Tees Valley | 90,521 | 2,217 | 92,738 |
| Thames Valley Berkshire | 181,907 | 24,581 | 206,488 |
| The Marches | 137,013 | 4,490 | 141,503 |
| West of England | 191,923 | 16,549 | 208,472 |
| Worcestershire | 115,480 | 5,381 | 120,861 |
| York and North Yorkshire | 160,411 | 6,010 | 166,421 |
| | | | |

Table 5.3: Turnover in LEPs by Creative Industries

| | Creative Industries | | |
|--|---------------------|------------|-------------|
| LEP | Non-Cl | CI | Total |
| | | | |
| Black Country | 21,792,045 | 444,730 | 22,236,775 |
| Buckinghamshire Thames Valley | 17,396,926 | 1,313,904 | 18,710,830 |
| Cheshire and Warrington | 26,906,967 | 905,849 | 27,812,816 |
| Coast to Capital | 43,443,682 | 2,435,098 | 45,878,780 |
| Cornwall and the Isles of Scilly | 8,852,461 | 219,535 | 9,071,996 |
| Coventry and Warwickshire | 19,706,608 | 856,537 | 20,563,145 |
| Cumbria | 9,293,721 | 177,007 | 9,470,728 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 38,474,609 | 1,130,809 | 39,605,418 |
| Dorset | 13,718,101 | 661,003 | 14,379,104 |
| Enterprise M3 | 50,293,078 | 3,871,618 | 54,164,696 |
| Gloucestershire | 20,475,278 | 751,369 | 21,226,647 |
| Greater Birmingham and Solihull | 31,107,728 | 1,456,315 | 32,564,043 |
| Greater Cambridge & Greater Peterborough | 29,248,871 | 1,559,715 | 30,808,586 |
| Greater Lincolnshire | 17,865,135 | 334,936 | 18,200,071 |
| Greater Manchester | 54,236,656 | 2,760,503 | 56,997,159 |
| Heart of the South West | 29,154,189 | 866,264 | 30,020,453 |
| Hertfordshire | 36,875,000 | 1,464,001 | 38,339,001 |
| Humber | 16,917,123 | 309,194 | 17,226,317 |
| Lancashire | 33,711,366 | 663,168 | 34,374,534 |
| Leeds City Region | 57,727,490 | 2,274,622 | 60,002,112 |
| Leicester and Leicestershire | 21,009,530 | 669,433 | 21,678,963 |
| Liverpool City Region | 25,317,147 | 527,666 | 25,844,813 |
| London | 618,377,990 | 45,894,368 | 664,272,358 |
| New Anglia | 31,420,681 | 909,552 | 32,330,233 |
| North Eastern | 27,520,133 | 660,815 | 28,180,948 |
| Northamptonshire | 15,668,870 | 481,462 | 16,150,332 |
| Oxfordshire LEP | 18,665,563 | 1,472,828 | 20,138,391 |
| Sheffield City Region | 25,395,320 | 802,796 | 26,198,116 |
| Solent | 26,818,945 | 867,877 | 27,686,822 |
| South East | 78,608,163 | 3,435,367 | 82,043,530 |
| South East Midlands | 42,121,628 | 1,932,527 | 44,054,155 |
| Stoke-on-Trent and Staffordshire | 19,773,703 | 353,013 | 20,126,716 |
| Swindon and Wiltshire | 17,407,132 | 750,876 | 18,158,008 |
| Tees Valley | 9,548,617 | 153,822 | 9,702,439 |
| Thames Valley Berkshire | 32,404,634 | 3,222,259 | 35,626,893 |
| The Marches | 15,098,030 | 369,066 | 15,467,096 |
| West of England | 20,581,499 | 1,534,631 | 22,116,130 |
| Worcestershire | 12,445,018 | 421,485 | 12,866,503 |
| York and North Yorkshire | 21,548,765 | 1,124,029 | 22,672,794 |
| | | | |

Table 6.1: Fast Growth Firms by LEP 2011-14

| LEP | Fast Gro | wth | Total |
|--|----------|------|---------|
| | No. | % | No. |
| Black Country | 3,245 | 17.8 | 18,236 |
| Buckinghamshire Thames Valley | 2,757 | 16.0 | 17,238 |
| Cheshire and Warrington | 3,753 | 14.3 | 26,164 |
| Coast to Capital | 7,733 | 16.9 | 45,775 |
| Cornwall and the Isles of Scilly | 1,921 | 17.5 | 10,947 |
| Coventry and Warwickshire | 3,063 | 15.9 | 19,257 |
| Cumbria | 1,696 | 14.7 | 11,511 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 5,342 | 16.1 | 33,097 |
| Dorset | 2,837 | 16.1 | 17,639 |
| Enterprise M3 | 6,680 | 16.0 | 41,838 |
| Gloucestershire | 2,517 | 16.5 | 15,296 |
| Greater Birmingham and Solihull | 5,292 | 17.7 | 29,820 |
| Greater Cambridge & Greater Peterborough | 4,316 | 15.9 | 27,077 |
| Greater Lincolnshire | 2,620 | 15.7 | 16,697 |
| Greater Manchester | 8,830 | 17.7 | 49,981 |
| Heart of the South West | 5,428 | 15.9 | 34,238 |
| Hertfordshire | 4,035 | 16.3 | 24,748 |
| Humber | 2,197 | 16.3 | 13,458 |
| Lancashire | 4,711 | 16.4 | 28,709 |
| Leeds City Region | 8,703 | 17.6 | 49,486 |
| Leicester and Leicestershire | 3,628 | 17.9 | 20,235 |
| Liverpool City Region | 3,820 | 18.2 | 21,011 |
| London | 44,608 | 18.7 | 239,070 |
| New Anglia | 4,843 | 15.3 | 31,575 |
| North Eastern | 4,696 | 17.5 | 26,838 |
| Northamptonshire | 2,703 | 17.1 | 15,827 |
| Oxfordshire LEP | 2,883 | 16.6 | 17,325 |
| Sheffield City Region | 3,912 | 16.9 | 23,153 |
| Solent | 4,344 | 16.4 | 26,451 |
| South East | 14,629 | 16.9 | 86,528 |
| South East Midlands | 6,592 | 16.5 | 39,890 |
| Stoke-on-Trent and Staffordshire | 3,075 | 16.7 | 18,374 |
| Swindon and Wiltshire | 2,495 | 16.1 | 15,502 |
| Tees Valley | 1,554 | 17.5 | 8,904 |
| Thames Valley Berkshire | 4,128 | 17.1 | 24,199 |
| The Marches | 2,417 | 16.9 | 14,330 |
| West of England | 4,065 | 17.3 | 23,553 |
| Worcestershire | 2,183 | 16.0 | 13,657 |
| York and North Yorkshire | 2,989 | 15.9 | 18,842 |

Table 6.2: Net Jobs Growth by LEP

| | Employee | Employees | Not ich | Net job creation |
|--|-----------|-----------|---------------------|------------------|
| | s 2013 | 2014 | Net job creation | rate |
| LEP | No. | No. | No. | % |
| Black Country | 157,342 | 167,486 | 10,144 | 6.4 |
| Buckinghamshire Thames Valley | 102,260 | 107,220 | 4,960 | 4.9 |
| Cheshire and Warrington | 156,586 | 162,408 | 5,822 | 3.7 |
| Coast to Capital | 270,919 | 281,939 | 11,020 | 4.1 |
| Cornwall and the Isles of Scilly | 80,019 | 83,368 | 3,349 | 4.2 |
| Coventry and Warwickshire | 129,852 | 137,055 | 7,203 | 5.5 |
| Cumbria Derby, Derbyshire, Nottingham and | 79,598 | 82,834 | 3,236 | 4.1 |
| Nottinghamshire, | 249,194 | 260,544 | 11,350 | 4.6 |
| Dorset | 116,714 | 120,358 | 3,644 | 3.1 |
| Enterprise M3 | 264,234 | 270,808 | 6,574 | 2.5 |
| Gloucestershire | 102,936 | 105,882 | 2,946 | 2.9 |
| Greater Birmingham and Solihull | 218,410 | 229,564 | 11,154 | 5.1 |
| Greater Cambridge & Greater Peterborough | 187,885 | 194,488 | 6,603 | 3.5 |
| Greater Lincolnshire | 120,574 | 125,470 | 4,896 | 4.1 |
| Greater Manchester | 385,300 | 401,157 | 15,857 | 4.1 |
| Heart of the South West | 240,259 | 247,134 | 6,875 | 2.9 |
| Hertfordshire | 158,410 | 172,362 | 13,952 | 8.8 |
| Humber | 100,531 | 104,165 | 3,634 | 3.6 |
| Lancashire | 213,037 | 222,053 | 9,016 | 4.2 |
| Leeds City Region | 391,259 | 406,712 | 15,453 | 3.9 |
| Leicester and Leicestershire | 152,466 | 159,719 | 7,253 | 4.8 |
| Liverpool City Region | 167,526 | 171,968 | 4,442 | 2.7 |
| London | 1,705,761 | 1,780,817 | 75,056 | 4.4 |
| New Anglia | 222,351 | 236,349 | 13,998 | 6.3 |
| North Eastern | 217,889 | 226,125 | 8,236 | 3.8 |
| Northamptonshire | 113,291 | 116,873 | 3,582 | 3.2 |
| Oxfordshire LEP | 117,120 | 121,690 | 4,570 | 3.9 |
| Sheffield City Region | 189,898 | 196,527 | 6,629 | 3.5 |
| Solent | 177,980 | 185,153 | 7,173 | 4.0 |
| South East | 546,611 | 565,205 | 18,594 | 3.4 |
| South East Midlands | 271,185 | 281,548 | 10,363 | 3.8 |
| Stoke-on-Trent and Staffordshire | 126,202 | 139,498 | 13,296 | 10.5 |
| Swindon and Wiltshire | 100,598 | 103,407 | 2,809 | 2.8 |
| Tees Valley | 69,046 | 72,180 | 3,134 | 4.5 |
| Thames Valley Berkshire | 167,131 | 173,954 | 6,823 | 4.1 |
| The Marches | 101,318 | 111,268 | 9,950 | 9.8 |
| West of England | 165,585 | 171,447 | 5,862 | 3.5 |
| Worcestershire | 92,050 | 95,222 | 3,172 | 3.4 |
| York and North Yorkshire | 123,294 | 129,724 | 6,430 | 5.2 |

Table 6.3: Three-Year Survivor Rate by LEP (2011-14)

| LEP | Start- ups | Start-u survivi 3 yea | ing | £1m | ors reaching illion over |
|---|----------------|-----------------------------|----------|-----------|--------------------------------|
| Plants Country | No. | No. | % | No. | % |
| Black Country | 2,167 | 1,188 | 55 | 68 | 5.7 |
| Buckinghamshire Thames Valley | 2,101 | 1,293 | 62 | 74 | 5.7 |
| Cheshire and Warrington | 2,718 | 1,616 | 59 | 102 | 6.3 |
| Coast to Capital | 5,986 | 3,504 | 59 | 172 | 4.9 |
| Cornwall and the Isles of Scilly | 1,043 | 659 | 63 | 37 | 5.6 |
| Coventry and Warwickshire | 2,375 | 1,398 | 59 | 89 | 6.4 |
| Cumbria | 984 | 575 | 58 | 14 | 2.4 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, Dorset | 3,738 1,988 | 2,147 1,137 | 57 57 | 122 66 | 5.7 5.8 |
| | • | • | | | |
| Enterprise M3 | 5,533 | 3,321 | 60 | 175 | 5.3 |
| Gloucestershire | 1,688 | 1,041 | 62 | 52 | 5.0 |
| Greater Birmingham and Solihull | 3,933 | 2,146 | 55 | 146 | 6.8 |
| Greater Cambridge & Greater Peterborough | 3,028 | 1,782 | 59 | 120 | 6.7 |
| Greater Lincolnshire | 1,730 | 982 | 57 | 65 | 6.6 |
| Greater Manchester | 6,804 | 3,716 | 55 | 258 | 6.9 |
| Heart of the South West | 3,275 | 1,929 | 59 | 104 | 5.4 |
| Hertfordshire | 3,265 | 1,890 | 58 | 105 | 5.6 |
| Humber | 1,402 | 774 | 55 | 53 | 6.8 |
| Lancashire | 3,264 | 1,768 | 54 | 117 | 6.6 |
| Leeds City Region | 6,495 | 3,661 | 56 | 247 | 6.7 |
| Leicester and Leicestershire | 2,404 | 1,394 | 58 | 73 | 5.2 |
| Liverpool City Region | 2,779 | 1,452 | 52 | 93 | 6.4 |
| London | 41,590 | 22,840 | 55 | 1,836 | 8.0 |
| New Anglia | 3,145 | 1,908 | 61 | 107 | 5.6 |
| North Eastern | 3,201 | 1,801 | 56 | 130 | 7.2 |
| Northamptonshire | 2,019 | 1,139 | 56 | 70 | 6.1 |
| Oxfordshire LEP | 1,991 | 1,219 | 61 | 64 | 5.3 |
| Sheffield City Region | 2,760 | 1,564 | 57 | 109 | 7.0 |
| Solent | 3,072 | 1,772 | 58 | 91 | 5.1 |
| South East | 10,815 | 6,336 | 59 | 371 | 5.9 |
| South East Midlands | 5,062 | 2,959 | 58 | 169 | 5.7 |
| Stoke-on-Trent and Staffordshire | 2,014 | 1,152 | 57 | 64 | 5.6 |
| Swindon and Wiltshire | 1,843 | 1,144 | 62 | 54 | 4.7 |
| Tees Valley | 1,120 | 608 | 54 | 33 | 5.4 |
| Thames Valley Berkshire | 3,452 | 2,097 | 61 | 122 | 5.8 |
| The Marches | 1,470 | 854 | 58 | 40 | 4.7 |
| West of England | 3,039 | 1,858 | 61 | 91 | 4.9 |
| Worcestershire | 1,542 | 919 | 60 | 48 | 5.2 |
| York and North Yorkshire | 1,934 | 1,148 | 59 | 56 | 4.9 |

Table 7.1: Product Innovation by LEP

| LEP | Total | Innovating |
|---|----------------|----------------|
| Black Country | No. 203 | % 20 |
| Buckinghamshire Thames Valley | 112 | 16 |
| Cheshire and Warrington | 170 | 20 |
| Coast to Capital | 303 | 19 |
| Cornwall and the Isles of Scilly | 100 | 19 |
| Coventry and Warwickshire | 154 | 18 |
| Cumbria | 100 | 14 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, Dorset | 307 134 | 19 22 |
| Enterprise M3 | 293 | 24 |
| Gloucestershire | 123 | 25 |
| Greater Birmingham and Solihull | 240 | 18 |
| Greater Cambridge & Greater | 225 | 23 |
| Peterborough Greater Lincolnshire | 151 | 17 |
| Greater Manchester | 457 | 18 |
| Heart of the South West | 294 | 19 |
| Hertfordshire | 206 | 15 |
| Humber | 131 | 12 |
| Lancashire | 258 | 24 |
| Leeds City Region | 479 | 18 |
| Leicester and Leicestershire | 185 | 21 |
| Liverpool City Region | 201 | 20 |
| London | 1724 | 17 |
| New Anglia | 278 | 14 |
| North Eastern | 271 | 19 |
| Northamptonshire | 133 | 23 |
| Oxfordshire LEP | 146 | 27 |
| Sheffield City Region | 236 | 18 |
| Solent | 203 | 17 |
| South East | 626 | 18 |
| South East Midlands | 310 | 25 |
| Stoke-on-Trent and Staffordshire | 163 | 17 |
| Swindon and Wiltshire | 116 | 23 |
| Tees Valley | 86 | 24 |
| Thames Valley Berkshire | 183 | 20 |
| The Marches | 119 | 14 |
| West of England | 197 | 17 |
| Worcestershire | 110 | 15 |
| York and North Yorkshire | 153 | 12 |

Table 7.2: New to Market Innovation by LEP (for those who do product innovation)

| LEP | Total | Innovating |
|--|------------------|----------------|
| Black Country | No. 41 | % 37 |
| Buckinghamshire Thames Valley | 18 | * |
| Cheshire and Warrington | 34 | 44 |
| Coast to Capital | 58 | 57 |
| Cornwall and the Isles of Scilly | 19 | * |
| Coventry and Warwickshire | 28 | 46 |
| Cumbria | 14 | * |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 58 | 36 |
| Dorset | 29 | 62 |
| Enterprise M3 | 69 | 61 |
| Gloucestershire | 31 | 48 |
| Greater Birmingham and Solihull | 42 | 60 |
| Greater Cambridge & Greater Peterborough | 53 | 51 |
| Greater Lincolnshire | 26 | * |
| Greater Manchester | 83 | 48 |
| Heart of the South West | 57 | 47 |
| Hertfordshire | 31 | 55 |
| Humber | 16 | * |
| Lancashire | 61 | 34 |
| Leeds City Region | 87 | 40 |
| Leicester and Leicestershire | 39 | 31 |
| Liverpool City Region | 40 | 40 |
| London | 292 | 47 |
| New Anglia | 38 | 26 |
| North Eastern | 51 | 53 |
| Northamptonshire | 31 | 48 |
| Oxfordshire LEP | 40 | 55 |
| Sheffield City Region | 43 | 37 |
| Solent | 34 | 50 |
| South East | 114 | 46 |
| South East Midlands | 79 | 54 |
| Stoke-on-Trent and Staffordshire | 28 | 50 |
| Swindon and Wiltshire | 27 | 52 |
| Tees Valley | 21 | 48 |
| Thames Valley Berkshire | 36 | 50 |
| The Marches | 17 | * |
| West of England | 33 | 33 |
| Worcestershire | 16 | * |
| York and North Yorkshire | 18 | * |

Table 7.3: Process Innovation by LEP

| LEP | Total | Innovating |
|--|----------------|----------------|
| | No. 203 | % 12 |
| Black Country | 112 | * |
| Buckinghamshire Thames Valley | 170 | 13 |
| Cheshire and Warrington | 303 | 13 |
| Coast to Capital | 100 | 14 |
| Cornwall and the Isles of Scilly | 154 | 11 |
| Coventry and Warwickshire | 100 | * |
| Cumbria | 307 | 8 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | | _ |
| Dorset | 134 | 16 |
| Enterprise M3 | 293 | 10 |
| Gloucestershire | 123 | 13 |
| Greater Birmingham and Solihull | 240 | 10 |
| Greater Cambridge & Greater Peterborough | 225 | 15 _ |
| Greater Lincolnshire | 151 | 7 |
| Greater Manchester | 457 | 12 |
| Heart of the South West | 294 | 9 |
| Hertfordshire | 206 | 10 |
| Humber | 131 | * |
| Lancashire | 258 | 13 |
| Leeds City Region | 479 | 11 |
| Leicester and Leicestershire | 185 | 14 |
| Liverpool City Region | 201 | 12 |
| London | 1724 | 11 |
| New Anglia | 278 | 11 |
| North Eastern | 271 | 10 |
| Northamptonshire | 133 | 15 |
| Oxfordshire LEP | 146 | 19 |
| Sheffield City Region | 236 | 13 |
| Solent | 203 | 9 |
| South East | 626 | 9 |
| South East Midlands | 310 | 14 |
| Stoke-on-Trent and Staffordshire | 163 | 11 |
| Swindon and Wiltshire | 116 | 15 |
| Tees Valley | 86 | 15 |
| Thames Valley Berkshire | 183 | 10 |
| The Marches | 119 | * |
| West of England | 197 | 14 |
| Worcestershire | 110 | 11 |
| | 153 | 8 |
| York and North Yorkshire | | |

Table 7.4: Strategic & Marketing Innovation by LEP

| LEP | Total | Innovating |
|--|----------------|----------------|
| | No. 203 | % 23 |
| Black Country | 112 | 21 |
| Buckinghamshire Thames Valley | 170 | 28 |
| Cheshire and Warrington | 303 | 31 |
| Coast to Capital | 100 | 30 |
| Cornwall and the Isles of Scilly | 154 | 28 |
| Coventry and Warwickshire | 100 | 19 |
| Cumbria | 307 | 30 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 134 | 30 |
| Dorset | 293 | 29 |
| Enterprise M3 | 123 | 31 |
| Gloucestershire | 240 | 26 |
| Greater Birmingham and Solihull | 225 | 32 |
| Greater Cambridge & Greater Peterborough | 151 | 32 27 |
| Greater Lincolnshire | | |
| Greater Manchester | 457 | 22 |
| Heart of the South West | 294 | 29 |
| Hertfordshire | 206 | 29 |
| Humber | 131 | 28 |
| Lancashire | 258 | 26 |
| Leeds City Region | 479 | 24 |
| Leicester and Leicestershire | 185 | 26 |
| Liverpool City Region | 201 | 30 |
| London | 1724 | 27 |
| New Anglia | 278 | 21 |
| North Eastern | 271 | 26 |
| Northamptonshire | 133 | 22 |
| Oxfordshire LEP | 146 | 31 |
| Sheffield City Region | 236 | 26 |
| Solent | 203 | 21 |
| South East | 626 | 27 |
| South East Midlands | 310 | 31 |
| Stoke-on-Trent and Staffordshire | 163 | 27 |
| Swindon and Wiltshire | 116 | 29 |
| Tees Valley | 86 | 29 |
| Thames Valley Berkshire | 183 | 22 |
| The Marches | 119 | 23 |
| West of England | 197 | 28 |
| Worcestershire | 110 | 30 |
| York and North Yorkshire | 153 | 23 |
| . S S S. I TOTAL I ORIGINIO | | |

Table 7.5: R&D Activity by LEP

| LEP | Total | R&D Active |
|--|----------------|----------------|
| Black Country | No. 203 | % 20 |
| Buckinghamshire Thames Valley | 112 | 14 |
| Cheshire and Warrington | 170 | 18 |
| Coast to Capital | 303 | 17 |
| Cornwall and the Isles of Scilly | 100 | 13 |
| Coventry and Warwickshire | 154 | 19 |
| Cumbria | 100 | 12 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 307 | 17 |
| Dorset | 134 | 18 |
| Enterprise M3 | 293 | 19 |
| Gloucestershire | 123 | 19 |
| | 240 | 14 |
| Greater Birmingham and Solihull | 225 | 26 |
| Greater Cambridge & Greater Peterborough | 151 | 7 |
| Greater Management | 457 | 15 |
| Greater Manchester | 294 | 18 |
| Heart of the South West | 206 | 16 |
| Hertfordshire | 131 | 12 |
| Humber | 258 | 18 |
| Lancashire | 479 | 17 |
| Leeds City Region | 185 | 21 |
| Leicester and Leicestershire | 201 | 19 |
| Liverpool City Region | 1724 | 16 |
| London | 278 | 11 |
| New Anglia | 271 | 16 |
| North Eastern | 133 | 21 |
| Northamptonshire | 146 | 28 |
| Oxfordshire LEP | 236 | 17 |
| Sheffield City Region | 203 | 15 |
| Solent | 626 | 15 |
| South East | 310 | 19 |
| South East Midlands | 163 | 12 |
| Stoke-on-Trent and Staffordshire | 116 | 20 |
| Swindon and Wiltshire | 86 | 17 |
| Tees Valley | 183 | 17 |
| Thames Valley Berkshire | 119 | 13 |
| The Marches | 197 | 9 |
| West of England | 110 | 14 |
| Worcestershire | 153 | 13 |
| York and North Yorkshire | 100 | 13 |

Table 7.6: Intramural R&D Activity by LEP

| LEP | Total | R&D Active |
|--|----------------|---------------|
| Plack Country | No. 203 | % 17 |
| Black Country | 112 | 14 |
| Buckinghamshire Thames Valley | 170 | 18 |
| Cheshire and Warrington | 303 | 17 |
| Coast to Capital | 100 | 13 |
| Cornwall and the Isles of Scilly | 154 | 17 |
| Coventry and Warwickshire | 100 | 12 |
| Cumbria | 307 | 16 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 134 | 18 |
| Dorset | 293 | 18 |
| Enterprise M3 | 123 | 19 |
| Gloucestershire | 240 | 14 |
| Greater Birmingham and Solihull | 225 | 25 |
| Greater Cambridge & Greater Peterborough | 151 | * |
| Greater Lincolnshire | 457 | 15 |
| Greater Manchester | 294 | 17 |
| Heart of the South West | 206 | 15 |
| Hertfordshire | 131 | 12 |
| Humber | 258 | 18 |
| Lancashire | 479 | 16 |
| Leeds City Region | 185 | 21 |
| Leicester and Leicestershire | 201 | 17 |
| Liverpool City Region | 1724 | 16 |
| London | 278 | 10 |
| New Anglia | 271 | 15 |
| North Eastern | 133 | 17 |
| Northamptonshire | 146 | 28 |
| Oxfordshire LEP | 236 | 16 |
| Sheffield City Region | 203 | 15 |
| Solent | 626 | 14 |
| South East | 310 | 16 |
| South East Midlands | 163 | 12 |
| Stoke-on-Trent and Staffordshire | 116 | 20 |
| Swindon and Wiltshire | 86 | 17 |
| Tees Valley | 183 | 17 |
| Thames Valley Berkshire | | |
| The Marches | 119 | 13 |
| West of England | 197 | 8 |
| Worcestershire | 110 | 14 |
| York and North Yorkshire | 153 | 12 |

Table 7.7: Innovation Collaboration by LEP

| LEP | Total | Collaborating |
|--|-------------------|----------------|
| | No. 203 | % 24 |
| Black Country | 112 | 17 |
| Buckinghamshire Thames Valley | 170 | 19 |
| Cheshire and Warrington | 303 | 21 |
| Coast to Capital | 100 | 23 |
| Cornwall and the Isles of Scilly | 154 | 21 |
| Coventry and Warwickshire | 100 | 14 |
| Cumbria | 307 | 19 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | | 19 |
| Dorset | 134 | - |
| Enterprise M3 | 293 | 24 |
| Gloucestershire | 123 | 26 |
| Greater Birmingham and Solihull | 240 | 18 |
| Greater Cambridge & Greater Peterborough | 225 | 27 |
| Greater Lincolnshire | 151 | 14 |
| Greater Manchester | 457 | 21 |
| Heart of the South West | 294 | 17 |
| Hertfordshire | 206 | 18 |
| Humber | 131 | 19 |
| Lancashire | 258 | 20 |
| Leeds City Region | 479 | 20 |
| Leicester and Leicestershire | 185 | 17 |
| Liverpool City Region | 201 | 20 |
| London | 1724 | 19 |
| New Anglia | 278 | 15 |
| North Eastern | 271 | 19 |
| Northamptonshire | 133 | 18 |
| Oxfordshire LEP | 146 | 31 |
| Sheffield City Region | 236 | 18 |
| Solent | 203 | 20 |
| South East | 626 | 18 |
| South East Midlands | 310 | 24 |
| Stoke-on-Trent and Staffordshire | 163 | 15 |
| Swindon and Wiltshire | 116 | 14 |
| Tees Valley | 86 | 19 |
| Thames Valley Berkshire | 183 | 21 |
| The Marches | 119 | 20 |
| West of England | 197 | 18 |
| Worcestershire | 110 | 21 |
| York and North Yorkshire | 153 | 15 |
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Table 7.8: New Business Practices for Organising Procedures and External relationships by LEP

| LEP | Total | New Practices |
|--|----------------|------------------|
| | No. 203 | % 30 |
| Black Country | 112 | 20 |
| Buckinghamshire Thames Valley | 170 | 23 |
| Cheshire and Warrington | 303 | 26 |
| Coast to Capital | 100 | 29 |
| Cornwall and the Isles of Scilly | 154 | 26 |
| Coventry and Warwickshire | 100 | 18 |
| Cumbria | 307 | 24 |
| Derby, Derbyshire, Nottingham and Nottinghamshire, | 134 | 26 |
| Dorset | 293 | 26 |
| Enterprise M3 | 123 | 24 |
| Gloucestershire | 240 | 23 |
| Greater Birmingham and Solihull | 225 | 25 |
| Greater Cambridge & Greater Peterborough | 151 | 26 |
| Greater Lincolnshire | 457 | 22 |
| Greater Manchester | 294 | 26 |
| Heart of the South West | 206 | 29 |
| Hertfordshire | 131 | 29 |
| Humber | 258 | 25 |
| Lancashire | 479 | 23 |
| Leeds City Region | 185 | 33 |
| Leicester and Leicestershire | 201 | 28 |
| Liverpool City Region | 1724 | 22 |
| London | 278 | 22 |
| New Anglia | 271 | 25 |
| North Eastern | 133 | 27 |
| Northamptonshire | 146 | 23 |
| Oxfordshire LEP | 236 | 26 |
| Sheffield City Region | 203 | 22 |
| Solent | 626 | 28 |
| South East | 310 | 26 |
| South East Midlands | 163 | 22 |
| Stoke-on-Trent and Staffordshire | 116 | 33 |
| Swindon and Wiltshire | 86 | 38 |
| Tees Valley | 183 | 24 |
| Thames Valley Berkshire | 119 | 23 |
| The Marches | 197 | 26 |
| West of England | 110 | 24 |
| Worcestershire | 153 | 26 |
| York and North Yorkshire | | |