

Corporate sectors – Peterborough

This report aims at assessing the specialness of the Peterborough economy by examining the key features characterising the corporate sectors in the area. The first part of the report provides an overview of the size of the corporate sectors in terms of number of companies, total employment and total turnover, while the second part focuses on the analysis of growth in employment and turnover over time. All data refer to Cambridge Ahead data produced by Dr Andy Cosh at the Centre for Business Research unless otherwise indicated.

1. Size

Table 1 reports the distribution of employment by sector (in levels as well as in percentage terms with respect to the total for all sectors in the area and to the total for each sector in the Combined Authority) for 2016-17.¹

Table 1 Distribution of employment by sector in 2016-17

	Peterborough			Combined Authority	
	Total employment	% of total	% of Combined Authority	Total employment	% of total
KNOWLEDGE INTENSIVE SECTORS					
Information Technology and Telecoms	1,216	2.2%	6.3%	19,419	8.2%
Life science and healthcare	1,326	2.4%	9.4%	14,106	6.0%
High-tech manufacturing	7,031	12.5%	32.5%	21,651	9.2%
Knowledge intensive services	1,109	2.0%	15.5%	7,148	3.0%
<i>TOTAL KI SECTORS</i>	<i>10,682</i>	<i>19.0%</i>	<i>17.1%</i>	<i>62,324</i>	<i>26.4%</i>
OTHER SECTORS					
Primary	459	0.8%	3.8%	12,020	5.1%
Manufacturing	3,547	6.3%	18.2%	19,465	8.2%
Wholesale and retail distribution	6,479	11.5%	26.1%	24,839	10.5%
Construction and utilities	2,224	4.0%	12.0%	18,600	7.9%
Transport and travel	4,075	7.3%	39.5%	10,305	4.4%
Property and finance	16,983	30.2%	63.4%	26,771	11.3%
Other business services	6,186	11.0%	22.5%	27,502	11.6%
Other services	2,458	4.4%	18.0%	13,677	5.8%
Education, arts, charities, social care	3,064	5.5%	14.7%	20,843	8.8%
<i>TOTAL NON-KI SECTORS</i>	<i>45,475</i>	<i>81.0%</i>	<i>26.1%</i>	<i>174,022</i>	<i>73.6%</i>
<i>TOTAL ALL SECTORS</i>	<i>56,157</i>	<i>100.0%</i>	<i>23.8%</i>	<i>236,346</i>	<i>100.0%</i>

Peterborough contributes approximately 24% of total employment in the Combined Authority. Employment in KI sectors represents 19.0% of total employment in the district, well below the average for the Combined Authority (26.4%). The largest KI sector is High-Tech Manufacturing (7,031), which accounts for 12.5% of total employment in Peterborough and 32.5% of total employment for the sector in the Combined Authority. Among non-KI sectors, employment is particularly high in Property and Finance (where the Property Letting and Management sub-sector

¹ The distribution of the number of companies by sector for 2016-17 is included in Table A.1. A comparison of employment estimates by sector between Cambridge Ahead data and BRES data is presented in Table A.3.

constitutes more than half of total employment in the area), Wholesale and Retail Distribution (with the largest contribution coming from the Wholesale sub-sector), and Other Business Services (with the Employment Agencies sub-sector accounting for over half of total employment). It is also worth noting that the Property and Finance sector in Peterborough alone accounts for almost two thirds of total employment in the sector for the Combined Authority. Conversely, the smallest sector in terms of employment is the Primary sector (0.8% of total employment in the district and 3.8% of total employment in the sector for the Combined Authority).

Table 2 presents the distribution of turnover by sector (in £,000 as well as in percentage terms with respect to the total for all sectors in the area and to the total for each sector in the Combined Authority) for 2016-17.

Table 2 Distribution of turnover by sector in 2016-17

	Peterborough			Combined Authority	
	Total turnover £,000	% of total	% of Combined Authority	Total turnover £,000	% of total
KNOWLEDGE INTENSIVE SECTORS					
Information Technology and Telecoms	183,770	1.7%	4.6%	4,001,051	8.8%
Life science and healthcare	441,274	4.0%	15.3%	2,876,583	6.4%
High-tech manufacturing	2,193,689	19.8%	37.2%	5,895,454	13.0%
Knowledge intensive services	193,834	1.8%	17.8%	1,088,008	2.4%
TOTAL KI SECTORS	3,012,568	27.2%	21.7%	13,861,095	30.6%
OTHER SECTORS					
Primary	72,808	0.7%	3.6%	2,027,805	4.5%
Manufacturing	713,134	6.4%	15.5%	4,609,590	10.2%
Wholesale and retail distribution	1,338,317	12.1%	15.5%	8,608,794	19.0%
Construction and utilities	458,291	4.1%	10.7%	4,294,229	9.5%
Transport and travel	3,044,538	27.5%	79.4%	3,834,353	8.5%
Property and finance	1,757,181	15.9%	57.5%	3,054,435	6.7%
Other business services	423,653	3.8%	15.2%	2,779,856	6.1%
Other services	125,551	1.1%	14.3%	876,403	1.9%
Education, arts, charities, social care	122,834	1.1%	9.3%	1,315,213	2.9%
TOTAL NON-KI SECTORS	8,056,307	72.8%	25.7%	31,400,678	69.4%
TOTAL ALL SECTORS	11,068,874	100.0%	24.5%	45,261,773	100.0%

Total turnover in Peterborough represents around a fourth of total turnover in the region, with the highest contribution coming from non-KI sectors. Among these, the largest sector based on turnover is Transport and Travel, with the highest share being generated in the Travel Agents sub-sector (1,929,492). One can also observe that the Transport and Travel sector in the district alone accounts for almost 80% of total turnover in the sector for the Combined Authority. Other non-KI sectors with large shares of turnover are Property and Finance (15.9% of total turnover in the area and 57.5% of total turnover in the sector for the Combined Authority) and Wholesale and Retail Distribution (12.1% and 15.5%, respectively). Total turnover originated in the KI sectors constitutes 27.2% of total turnover in Peterborough, somewhat below the average for the Combined Authority. Over two thirds of turnover for the KI sectors in the district is generated in High-Tech Manufacturing.

Table 3 shows employment and turnover location quotients (LQs) with respect to the Combined Authority, the LEP and the UK for 2015-16. A similar analysis based on BRES data instead of Cambridge Ahead data is included in Table A.2.

Table 3 Employment and turnover location quotients in 2015-16 – Cambridge Ahead data

	Employment			Turnover		
	LQ (Comb. Auth. = 1)	LQ (LEP = 1)	LQ (UK = 1)	LQ (Comb. Auth. = 1)	LQ (LEP = 1)	LQ (UK = 1)
KNOWLEDGE INTENSIVE SECTORS						
Information Technology and Telecoms	0.27	0.45	0.50	0.20	0.23	0.29
Life science and healthcare	0.34	0.92	1.16	0.52	0.64	1.94
High-tech manufacturing	1.25	1.46	2.59	1.56	1.52	3.32
Knowledge intensive services	0.69	1.18	1.52	0.58	1.06	1.27
<i>TOTAL KI SECTORS</i>	<i>0.69</i>	<i>1.07</i>	<i>1.51</i>	<i>0.87</i>	<i>0.98</i>	<i>1.81</i>
OTHER SECTORS						
Primary	0.16	0.17	0.19	0.12	0.12	0.05
Manufacturing	0.74	0.60	0.64	0.57	0.47	0.69
Wholesale and retail distribution	1.25	1.39	0.70	0.78	0.86	0.71
Construction and utilities	0.49	0.60	0.91	0.39	0.29	0.29
Transport and travel	1.68	1.42	1.00	3.07	4.33	5.57
Property and finance	2.62	4.21	3.01	2.21	3.43	1.12
Other business services	0.96	0.60	0.77	0.56	0.44	0.48
Other services	0.78	0.34	0.33	0.49	0.22	0.20
Education, arts, charities, social care	0.64	0.71	0.95	0.42	0.43	0.69
<i>TOTAL NON-KI SECTORS</i>	<i>1.11</i>	<i>0.99</i>	<i>0.93</i>	<i>1.05</i>	<i>1.01</i>	<i>0.86</i>

The analysis of employment LQs indicate that Peterborough has significant strengths in several non-KI sectors, including Property and Finance (4.21 relative to the LEP and 3.01 relative to the UK) and Transport and Travel (1.42 and 1.00, respectively). A relatively high degree of concentration is also observed for High-Tech Manufacturing (1.46 and 2.59, respectively), while another KI sector that has a greater share of employment compared to the LEP and the UK is Knowledge Intensive Services (1.18 and 1.52, respectively). Concentration appears to be at its lowest in the Primary sector (0.17 and 0.19, respectively).

In terms of turnover, the sector with the highest concentration is Transport and Travel (4.33 and 5.57, respectively). Insofar as non-KI sectors are concerned, particular concentration can also be seen in the Property and Finance sector (3.43 and 1.12, respectively). Among KI sectors, significant strengths appear to characterise the High-Tech Manufacturing sector (1.52 and 3.32, respectively) and the Knowledge Intensive Services sector (1.06 and 1.27, respectively). Furthermore, the share of turnover in Life Science and Healthcare for Peterborough is found to be higher than the corresponding share for the UK as a whole.

Table 4 illustrates the distribution of the number of companies that are based in the area (in both absolute and relative terms) by firm size for 2016-17. The groupings used in Table 4 and in the other tables below are defined as follows: (i) micro firms = 1-9 employees; (ii) small and medium-sized firms (SMEs) = 10-249 employees; (iii) large firms > 250 employees. A detailed disaggregation of the number of companies by firm size is included in Table A.4.

Table 4 Distribution of number of companies by firm size in 2016-17 – Broad summary

	Peterborough		Combined Authority	
	No. of companies	%	No. of companies	%
Micro firms	4,052	91.7%	22,214	90.4%
Small and medium-sized firms	342	7.7%	2,224	9.1%
Large firms	27	0.6%	123	0.5%
All firms in area	4,421	100.0%	24,561	100.0%

Around 92% of companies in Peterborough are micro firms, while SMEs represent 7.7% of the total number of companies in the district. This figure is lower than the average for the Combined Authority (9.1%). There are 27 firms that are based in Peterborough and have more than 250 employees, corresponding to 0.6% of the total.

Table 5 reports the distribution of employment by firm size for 2016-17. A detailed disaggregation of the figures presented below is included in Table A.5.

Table 5 Distribution of employment by firm size in 2016-17 – Broad summary

	Peterborough		Combined Authority	
	Total employment	%	Total employment	%
Micro firms	7,827	13.9%	46,737	19.8%
Small and medium-sized firms	13,229	23.6%	80,499	34.1%
Large firms	35,101	62.5%	109,110	46.2%
All firms in area	56,157	100.0%	236,346	100.0%

Employment in Peterborough appears to be concentrated among large firms, which account for 62.5% of total employment in the district. This figure is considerably higher compared to the Combined Authority, where firms with more than 250 employees contribute 46.2% of total employment in the region. Around 24% of employment in Peterborough is at SMEs, while micro firms provide 13.9% of total employment in the district.

Table 6 shows the distribution of turnover by firm size for 2016-17. A detailed disaggregation of the figures presented below is included in Table A.6.

Table 6 Distribution of turnover by firm size in 2016-17 – Broad summary

	Peterborough		Combined Authority	
	Total turnover £,000	%	Total turnover £,000	%
Micro firms	1,197,151	10.8%	7,706,187	17.0%
Small and medium-sized firms	1,999,684	18.1%	13,536,479	29.9%
Large firms	7,872,039	71.1%	24,019,107	53.1%
All firms in area	11,068,874	100.0%	45,261,773	100.0%

Over two thirds of total turnover in Peterborough is generated by large firms, as opposed to a figure of 53.1% for the Combined Authority. The share of turnover for SMEs is significantly lower compared to the average for the region (18.1% and 29.9%, respectively), while firms with 1-9 employees account for the smallest share of turnover in the district (10.8%).

Table 7 lists the largest companies that are based in Peterborough, among those with more than 100 employees, by their turnover in 2016-17.

Table 7 Largest Peterborough-based companies (100+ employees) by turnover in 2016-17

Company name	Sector	Employment 2016-17	Turnover 2016-17 £,000
Coloplast Limited	Life Science and	436	251,967
GE Healthcare UK Limited	Healthcare	271	105,450
Eresearchtechnology UK 1 Limited		611	82,551
Perkins Engines Company Limited	High-tech	2,251	1,177,069
Whirlpool UK Appliances Limited	manufacturing	2,981	703,281
Perkins Shibaura Engines Limited		177	90,939
Lawrence David Limited	Knowledge intensive	253	97,273
Haskoningdhv UK Limited	services	497	54,410
Johnston Publishing Limited	Manufacturing	611	204,938
Bauer Consumer Media Limited		696	140,882
Dart Products Europe Ltd.		523	77,726
Ideal Shopping Direct Limited	Wholesale and retail	854	142,257
Russell Burgess Limited	distribution	664	137,708
Caterpillar Logistics (UK) Limited		195	89,785
AK Retail Holdings Limited		1,000	69,566
Gardman Limited		206	60,455
F.P.Smith(Holdings)Limited		130	57,057
Thomas Cook Tour Operations Limited	Transport and travel	853	1,918,573
Thomas Cook Airlines Limited		2,337	997,028
BGL Group Limited	Property and finance	3,275	523,533
Aldermore Bank PLC		887	402,500
United Church Schools Foundation Ltd		8,236	387,890
Diligenta Limited		2,697	185,723
Cross Keys Homes Limited		246	65,167
Mastercard Prepaid Management Services Limited	Other Business Services	221	53,970

Most of the largest companies that are based in the district are found among non-KI sectors. In terms of turnover, two of the largest companies (i.e. Thomas Cook Tour Operations Limited and Thomas Cook Airlines Limited) belong to the Transport and Travel sector. Other sectors where large companies are represented are Property and Finance (e.g. BGL Group Limited and Aldermore Bank PLC), Manufacturing (e.g. Johnston Publishing Limited), and Wholesale and Retail Distribution (e.g. Ideal Shopping Direct Limited). A number of large companies are also observed in the KI sectors, namely High-Tech Manufacturing (e.g. Perkins Engines Company Limited and Whirlpool UK Appliances Limited), Life Science and Healthcare (e.g. Coloplast Limited), and Knowledge Intensive Services (e.g. Lawrence David Limited).

Table 8 provides a list of the largest companies that are active in Peterborough, among those with more than 100 employees, by their turnover in 2016-17.

Table 8 Largest Peterborough-active companies (100+ employees) by turnover in 2016-17

Company name	Sector	Employment 2016-17	Turnover 2016-17 £,000
SKY PLC	Information Technology and Telecoms	27,941	11,965,000
Amazon UK Services Ltd.		14,118	1,462,008
CDW Limited		1,047	648,634
Specialist Computer Centres PLC		1,727	573,906
Cummins Ltd.	High-tech manufacturing	3,561	1,502,923
Coca-Cola European Partners Great Britain Limited	Manufacturing	3,541	1,752,355
News Corp UK & Ireland Limited		5,266	1,496,639
Kerry Ingredients (UK) Limited		1,705	549,452
Ikea Limited	Wholesale and retail distribution	8,374	1,711,641
Dunelm (Soft Furnishings) Ltd		8,962	880,900
Decidebloom Limited		1,830	560,866
Anixter Limited		554	358,966
Balfour Beatty Group Limited	Construction and utilities	944	3,225,000
Mears Limited		3,954	539,256
Sims Group UK Limited		779	396,233
NG Bailey Limited		1,506	347,160
Dpdgroup UK Ltd	Transport and travel	6,268	806,161
Hermes Parcelnet Limited		2,211	563,792
RSA Insurance Group PLC	Property and finance	14,428	6,340,000
Brighthouse Limited		2,827	320,121
Staffline Recruitment Limited	Other Business Services	772	743,835
Signet Trading Limited		3,389	489,366
Spire Healthcare Limited	Other Services	6,723	814,906
Barchester Healthcare Limited		16,267	563,937
Performing Right Society, Limited	Education, arts, charities, social care	632	621,458

Two of the largest companies that are active in Peterborough (i.e. SKY PLC and Amazon UK Services Ltd.) operate in the Information Technology and Telecoms sector, while another KI sector that is represented is High-Tech Manufacturing (e.g. Cummins Ltd.). Besides these, the majority of the largest companies in the district belong to a number of non-KI sectors, including Property and Finance (e.g. RSA Insurance Group PLC), Construction and Utilities (e.g. Balfour Beatty Group Limited and Mears Limited), Manufacturing (e.g. Coca-Cola European Partners Great Britain Limited and News Corp UK & Ireland Limited), Wholesale and Retail Distribution (e.g. Ikea Limited), and Other Services (e.g. Spire Healthcare Limited).

2. Growth

Table 9 reports the annualised growth rates in employment by sector over the three- and six-year periods to 2016-17.²

Table 9 Three-year and six-year employment growth (% pa) by sector

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
Information Technology and Telecoms	7.4%	4.1%	6.9%	7.3%
Life science and healthcare	9.1%	7.7%	7.4%	6.7%
High-tech manufacturing	2.9%	1.4%	1.6%	1.9%
Knowledge intensive services	1.9%	-0.1%	8.6%	5.9%
<i>TOTAL KI SECTORS</i>	<i>4.0%</i>	<i>2.2%</i>	<i>5.2%</i>	<i>4.9%</i>
OTHER SECTORS				
Primary	-4.4%	-0.6%	5.9%	4.9%
Manufacturing	5.1%	3.2%	4.7%	3.2%
Wholesale and retail distribution	1.6%	1.9%	6.6%	4.3%
Construction and utilities	4.0%	2.4%	5.4%	4.6%
Transport and travel	17.7%	4.6%	11.7%	5.6%
Property and finance	7.5%	11.0%	8.6%	9.0%
Other business services	9.5%	9.1%	5.3%	5.9%
Other services	5.0%	4.8%	8.4%	8.7%
Education, arts, charities, social care	3.4%	7.9%	8.2%	13.8%
<i>TOTAL NON-KI SECTORS</i>	<i>6.6%</i>	<i>6.7%</i>	<i>6.9%</i>	<i>6.5%</i>
<i>TOTAL ALL SECTORS</i>	<i>6.1%</i>	<i>5.7%</i>	<i>6.4%</i>	<i>6.0%</i>

Total employment growth in Peterborough has been lower compared to the Combined Authority (5.7% and 6.0%, respectively, if the six years to 2016-17 are considered). Growth in employment has been particularly high among non-KI sectors, which have been growing at an annual rate of 6.7% over the entire period (as opposed to a rate of 6.5% for the Combined Authority). The sectors that have exhibited the largest growth are Property and Finance (7.5% for the three-year growth and 11.0% for the six-year growth) and Other Business Services (9.5% and 9.1%, respectively). During the three years to 2016-17, employment in the district has witnessed a large increase in the Transport and Travel sector (17.7%). Somewhat limited compared to the average for the Combined Authority has been growth among KI sectors, which have grown by 2.2% throughout the whole period. This notwithstanding, there is evidence that growth has accelerated over the past three years in High-Tech Manufacturing (2.9% as opposed to 1.6% for the Combined Authority), Information Technology and Telecoms (7.4% and 6.9%, respectively), and Life Science and Healthcare (9.1% and 7.4%, respectively).

² A comparison of employment growth rates by sector between Cambridge Ahead data and BRES data is presented in Table A.8.

Table 10 presents the annualised growth rates in turnover by sector over the three- and six-year periods to 2016-17.

Table 10 Three-year and six-year turnover growth (% pa) by sector

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
Information Technology and Telecoms	5.4%	7.7%	10.4%	9.7%
Life science and healthcare	7.4%	5.6%	9.0%	8.7%
High-tech manufacturing	-2.3%	0.5%	3.4%	3.9%
Knowledge intensive services	18.2%	8.2%	6.1%	6.9%
<i>TOTAL KI SECTORS</i>	<i>0.3%</i>	<i>1.9%</i>	<i>6.6%</i>	<i>6.6%</i>
<i>OTHER SECTORS</i>				
Primary	-18.3%	2.5%	3.2%	6.6%
Manufacturing	-4.4%	-4.6%	4.8%	5.1%
Wholesale and retail distribution	0.0%	2.4%	11.3%	8.0%
Construction and utilities	9.2%	7.1%	9.3%	7.2%
Transport and travel	-2.1%	-0.9%	-0.2%	0.3%
Property and finance	6.4%	12.8%	9.6%	11.6%
Other business services	6.7%	6.1%	6.9%	5.5%
Other services	6.0%	4.8%	9.5%	9.3%
Education, arts, charities, social care	4.7%	8.6%	5.6%	14.3%
<i>TOTAL NON-KI SECTORS</i>	<i>0.7%</i>	<i>2.3%</i>	<i>7.0%</i>	<i>6.5%</i>
<i>TOTAL ALL SECTORS</i>	<i>0.6%</i>	<i>2.2%</i>	<i>6.9%</i>	<i>6.5%</i>

Peterborough has seen rather limited turnover growth over time. During the six-year period, total turnover in the district has increased by 2.2%, whereas total turnover growth in the Combined Authority has been 6.5%. Relatively high growth rates are observed in Property and Finance (6.4% over the three years to 2016-17 and 12.8% over the six years to 2016-17), Construction and Utilities (9.2% and 7.1%, respectively), and Other Business Services (6.7% and 6.1%, respectively). Growth in turnover has also been remarkable in Knowledge Intensive Services (18.2% and 8.2%, respectively) and Information Technology and Telecoms (5.4% and 7.7%, respectively). However, total turnover growth for the KI sectors has been limited (0.3% and 1.9%, respectively) and well below the average for the Combined Authority (6.6% for both the three- and six-year growth).

Table 11 illustrates the absolute change in employment and turnover LQs (calculated with respect to the Combined Authority) by sector over the three- and six-year periods to 2016-17. A similar analysis for employment based on BRES data instead of Cambridge Ahead data is included in Table A.7.

Table 11 Change in employment and turnover location quotients (Combined Authority = 1) – Cambridge Ahead data

	Employment		Turnover	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
Information Technology and Telecoms	0.01	-0.05	0.01	0.02
Life science and healthcare	0.02	0.03	0.08	0.04
High-tech manufacturing	0.06	-0.02	0.02	0.07
Knowledge intensive services	-0.13	-0.26	0.29	0.20
<i>TOTAL KI SECTORS</i>	<i>-0.02</i>	<i>-0.11</i>	<i>0.00</i>	<i>-0.02</i>
OTHER SECTORS				
Primary	-0.06	-0.06	-0.10	0.00
Manufacturing	0.02	0.01	-0.06	-0.25
Wholesale and retail distribution	-0.16	-0.14	-0.09	-0.05
Construction and utilities	-0.01	-0.06	0.07	0.09
Transport and travel	0.26	-0.06	0.38	0.51
Property and finance	-0.06	0.31	0.21	0.63
Other business services	0.11	0.17	0.10	0.15
Other services	-0.07	-0.17	0.05	0.00
Education, arts, charities, social care	-0.08	-0.22	0.06	-0.02
<i>TOTAL NON-KI SECTORS</i>	<i>0.00</i>	<i>0.03</i>	<i>0.00</i>	<i>0.01</i>

Throughout the entire period, concentration in terms of employment has increased in Property and Finance (0.31), Other Business Services (0.17), and Life Science and Healthcare (0.03), while it has remained somewhat stable in Manufacturing (0.01). During the three years to 2016-17, employment has also become more concentrated in the Transport and Travel sector (0.26). Conversely, the relative concentration of employment in the area has been decreasing somewhat importantly in Knowledge Intensive Services (-0.26), Education, Arts, Charities, Social Care (-0.22), Other Services (-0.17), and Wholesale and Retail Distribution (-0.14).

With regard to turnover, the largest increases in concentration are found among non-KI sectors, namely Property and Finance (0.63), Transport and Travel (0.51) and Other Business Services (0.15). For the KI sectors, a relatively large increase in turnover LQs is observed for Knowledge Intensive Services (0.20), although concentration in the KI sectors taken together has been decreasing over the entire period (-0.02).

Table 12 shows the annualised growth rates in employment by firm size over the three- and six-year periods to 2016-17. A detailed disaggregation of the figures presented below is included in Table A.9.

Table 12 Three-year and six-year employment growth (% pa) by firm size – Broad summary

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
Micro firms	6.5%	5.7%	6.6%	6.4%
Small and medium-sized firms	2.4%	3.0%	5.1%	5.7%
Large firms	7.6%	6.9%	7.4%	6.2%
All firms in area	6.1%	5.7%	6.4%	6.0%

Total employment growth in Peterborough is mostly driven by large firms, which have been growing at higher rates relative to the Combined Authority (6.9% and 6.2%, respectively, when the six-year period is examined). Employment growth for micro firms in the district has been somewhat lower than the corresponding figures for the whole region (5.7% and 6.4%, respectively), whereas more limited has been the growth witnessed by SMEs (3.0% as opposed to 5.7% for the Combined Authority).

Table 13 shows the annualised growth rates in turnover by firm size over the three- and six-year periods to 2016-17. A detailed disaggregation of the figures presented below is included in Table A.10.

Table 13 Three-year and six-year turnover growth (% pa) by firm size – Broad summary

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
Micro firms	7.7%	4.1%	10.2%	8.2%
Small and medium-sized firms	0.3%	-5.4%	6.1%	4.0%
Large firms	-0.3%	4.7%	6.4%	7.6%
All firms in area	0.6%	2.2%	6.9%	6.5%

Turnover growth for firms with 1-9 employees is among the highest in the district, yet below the average for the Combined Authority (4.1% and 8.2%, respectively, over the entire period). The rate of growth at large firms has been lower than that for the Combined Authority (4.7% and 7.6%, respectively) and has slowed down during the past three years (-0.3% compared to 6.4% for the whole region). A negative growth rate throughout the entire period is found for SMEs (-5.4%), which is due to the drop in turnover among firms with 50-99 employees.

Appendix A

Table A.1 Distribution of number of companies by sector in 2016-17

	Peterborough			Combined Authority	
	No. of companies	% of total	% of Combined Authority	No. of companies	% of total
KNOWLEDGE INTENSIVE SECTORS					
Information Technology and Telecoms	385	8.7%	13.7%	2,805	11.4%
Life science and healthcare	8	0.2%	2.1%	384	1.6%
High-tech manufacturing	79	1.8%	15.0%	526	2.1%
Knowledge intensive services	84	1.9%	11.8%	712	2.9%
<i>TOTAL KI SECTORS</i>	<i>556</i>	<i>12.6%</i>	<i>12.6%</i>	<i>4,427</i>	<i>18.0%</i>
OTHER SECTORS					
Primary	55	1.2%	8.4%	657	2.7%
Manufacturing	204	4.6%	17.4%	1,174	4.8%
Wholesale and retail distribution	600	13.6%	24.3%	2,468	10.0%
Construction and utilities	498	11.3%	16.9%	2,952	12.0%
Transport and travel	342	7.7%	38.2%	895	3.6%
Property and finance	550	12.4%	18.4%	2,991	12.2%
Other business services	770	17.4%	16.3%	4,720	19.2%
Other services	622	14.1%	20.5%	3,039	12.4%
Education, arts, charities, social care	224	5.1%	18.1%	1,238	5.0%
<i>TOTAL NON-KI SECTORS</i>	<i>3,865</i>	<i>87.4%</i>	<i>19.2%</i>	<i>20,134</i>	<i>82.0%</i>
<i>TOTAL ALL SECTORS</i>	<i>4,421</i>	<i>100.0%</i>	<i>18.0%</i>	<i>24,561</i>	<i>100.0%</i>

Table A.2 Employment location quotients in 2016 – BRES data

	LQ (Comb. Auth. = 1)	LQ (LEP = 1)	LQ (GB = 1)
High-tech manufacturing	1.10	1.11	1.43
Life sciences manufacturing	0.54	0.50	0.57
ICT	0.85	1.13	1.01
R&D	0.03	0.05	0.19
Knowledge intensive services	0.39	0.47	0.54
<i>Sub-total - KI sectors</i>	<i>0.61</i>	<i>0.77</i>	<i>0.95</i>
Primary	0.33	0.27	0.05
Other manufacturing	0.56	0.42	0.57
Property and construction	0.79	0.67	0.67
Utilities	1.40	1.44	1.41
Publishing	1.12	1.57	2.78
Transport and travel	1.14	0.97	1.12
Wholesale distribution	1.29	1.11	1.32
Retail distribution	1.34	1.29	1.34
Hotels, pubs and restaurants	0.83	0.71	0.63
Other business services	1.53	1.62	1.57
Public services	0.99	1.04	0.79
Other Services	0.90	0.90	0.88
Education	0.59	0.67	0.72
Finance and professional services	1.71	1.84	1.15
Health services	0.96	0.99	0.88
<i>Sub-total - Other sectors</i>	<i>1.06</i>	<i>1.03</i>	<i>1.01</i>

Table A.3 Comparison of employment by sector in 2016 – Cambridge Ahead vs. BRES data

	Total employment		% of total	
	Cambridge Ahead data	BRES data	Cambridge Ahead data	BRES data
High-tech manufacturing	6,957	3,900	12.4%	3.4%
Life sciences manufacturing	713	150	1.3%	0.1%
ICT	1,186	4,385	2.1%	3.8%
R&D	751	100	1.3%	0.1%
Knowledge intensive services	1,500	1,500	2.7%	1.3%
<i>Sub-total - KI sectors</i>	<i>11,107</i>	<i>10,035</i>	<i>19.8%</i>	<i>8.8%</i>
Primary	410	100	0.7%	0.1%
Other manufacturing	2,607	3,495	4.6%	3.0%
Property and construction	11,269	4,945	20.1%	4.3%
Utilities	168	2,975	0.3%	2.6%
Publishing	1,028	1,250	1.8%	1.1%
Transport and travel	4,366	7,640	7.8%	6.7%
Wholesale distribution	1,969	5,900	3.5%	5.1%
Retail distribution	3,090	15,075	5.5%	13.2%
Hotels, pubs and restaurants	500	5,355	0.9%	4.7%
Other business services	5,497	22,885	9.8%	20.0%
Public services	30	3,750	0.1%	3.3%
Other Services	2,982	4,720	5.3%	4.1%
Education	1,580	7,140	2.8%	6.2%
Finance and professional services	8,020	6,300	14.3%	5.5%
Health services	1,534	13,050	2.7%	11.4%
<i>Sub-total - Other sectors</i>	<i>45,050</i>	<i>104,580</i>	<i>80.2%</i>	<i>91.2%</i>
<i>Total Employment</i>	<i>56,157</i>	<i>114,615</i>	<i>100.0%</i>	<i>100.0%</i>

Note: For a detailed comparison of employment estimates between Cambridge Ahead data and BRES data, please see the report titled “Comparison of the employment growth from the corporate database with BRES data”.

Table A.4 Distribution of number of companies by firm size in 2016-17 – Detailed summary

	Peterborough		Combined Authority	
	No. of companies	%	No. of companies	%
<i>Micro firms</i>				
1 employee	2,350	53.2%	11,662	47.5%
2-4 employees	1,342	30.4%	8,369	34.1%
5-9 employees	360	8.1%	2,183	8.9%
<i>Small firms</i>				
10-49 employees	284	6.4%	1,848	7.5%
<i>Medium-sized firms</i>				
50-99 employees	23	0.5%	189	0.8%
100-249 employees	35	0.8%	187	0.8%
<i>Large firms</i>				
> 250 employees	27	0.6%	123	0.5%
<i>All firms in area</i>	<i>4,421</i>	<i>100.0%</i>	<i>24,561</i>	<i>100.0%</i>

Table A.5 Distribution of employment by firm size in 2016-17 – Detailed summary

	Peterborough		Combined Authority	
	Total employment	%	Total employment	%
<i>Micro firms</i>				
1 employee	2,350	4.2%	11,662	4.9%
2-4 employees	3,231	5.8%	21,260	9.0%
5-9 employees	2,246	4.0%	13,815	5.8%
<i>Small firms</i>				
10-49 employees	5,722	10.2%	37,818	16.0%
<i>Medium-sized firms</i>				
50-99 employees	1,644	2.9%	13,451	5.7%
100-249 employees	5,863	10.4%	29,230	12.4%
<i>Large firms</i>				
> 250 employees	35,101	62.5%	109,110	46.2%
<i>All firms in area</i>	<i>56,157</i>	<i>100.0%</i>	<i>236,346</i>	<i>100.0%</i>

Table A.6 Distribution of turnover by firm size in 2016-17 – Detailed summary

	Peterborough		Combined Authority	
	Total turnover £,000	%	Total turnover £,000	%
<i>Micro firms</i>				
1 employee	324,933	2.9%	1,642,977	3.6%
2-4 employees	498,720	4.5%	3,442,876	7.6%
5-9 employees	373,497	3.4%	2,620,334	5.8%
<i>Small firms</i>				
10-49 employees	913,878	8.3%	6,854,090	15.1%
<i>Medium-sized firms</i>				
50-99 employees	202,259	1.8%	2,100,819	4.6%
100-249 employees	883,547	8.0%	4,581,570	10.1%
<i>Large firms</i>				
> 250 employees	7,872,039	71.1%	24,019,107	53.1%
<i>All firms in area</i>	<i>11,068,874</i>	<i>100.0%</i>	<i>45,261,773</i>	<i>100.0%</i>

Table A.7 Change in employment location quotients – BRES data

	3yrs 2013-2016			6yrs 2010-2016		
	Comb. Auth. = 1	LEP = 1	GB = 1	Comb. Auth. = 1	LEP = 1	GB = 1
High-tech manufacturing	-0.36	-0.47	-0.92	-0.28	-0.37	-0.99
Life sciences manufacturing	0.28	0.25	0.29	0.43	0.35	0.40
ICT	0.00	0.01	-0.01	0.20	0.29	0.37
R&D	0.00	0.00	0.01	-0.01	-0.03	-0.08
Knowledge intensive services	-0.06	-0.09	-0.09	-0.19	-0.25	-0.41
<i>Sub-total - KI sectors</i>	<i>-0.16</i>	<i>-0.21</i>	<i>-0.32</i>	<i>-0.11</i>	<i>-0.14</i>	<i>-0.26</i>
Primary	-0.09	-0.11	-0.01	-0.36	-0.42	-0.05
Other manufacturing	-0.04	-0.04	-0.06	-0.06	-0.05	-0.03
Property and construction	0.04	0.01	0.04	-0.10	-0.13	-0.18
Utilities	0.09	0.12	-0.02	0.34	0.13	-0.30
Publishing	-0.08	-0.06	0.57	-0.46	-0.72	-0.15
Transport and travel	0.10	0.10	0.18	0.09	0.11	0.22
Wholesale distribution	0.31	0.28	0.33	0.34	0.24	0.18
Retail distribution	0.09	0.11	0.13	0.17	0.19	0.25
Hotels, pubs and restaurants	-0.16	-0.15	-0.15	-0.03	-0.01	0.00
Other business services	0.07	0.09	0.00	0.09	0.13	0.20
Public services	-0.18	-0.20	-0.12	0.05	0.08	0.03
Other Services	-0.18	-0.14	0.03	-0.16	-0.12	-0.11
Education	0.03	0.04	0.00	-0.14	-0.12	-0.14
Finance and professional services	-0.10	-0.09	-0.01	-0.33	-0.48	-0.17
Health services	0.02	0.02	0.02	-0.05	-0.03	-0.06
<i>Sub-total - Other sectors</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>

Table A.8 Comparison of employment growth by sector – Cambridge Ahead vs. BRES data

	3yrs 2013-2016		6yrs 2010-2016	
	Cambridge Ahead data	BRES data	Cambridge Ahead data	BRES data
High-tech manufacturing	2.7%	-14.5%	1.3%	-7.4%
Life sciences manufacturing	6.6%	26.0%	4.1%	20.1%
ICT	7.6%	6.2%	4.0%	12.7%
R&D	12.0%	10.1%	13.3%	-3.7%
Knowledge intensive services	0.1%	4.6%	0.5%	-3.4%
<i>Sub-total - KI sectors</i>	<i>3.6%</i>	<i>-4.0%</i>	<i>2.2%</i>	<i>-0.5%</i>
Primary	-2.2%	-5.9%	0.8%	-10.9%
Other manufacturing	15.4%	0.4%	8.7%	0.5%
Property and construction	8.1%	6.2%	10.2%	-1.6%
Utilities	10.1%	2.5%	16.0%	-2.4%
Publishing	-10.0%	7.7%	-5.0%	-3.0%
Transport and travel	19.1%	13.5%	25.2%	7.9%
Wholesale distribution	-9.8%	13.6%	-7.0%	3.9%
Retail distribution	13.4%	5.6%	9.4%	4.5%
Hotels, pubs and restaurants	8.4%	-1.4%	9.1%	4.4%
Other business services	8.8%	7.0%	9.1%	7.4%
Public services	-3.1%	-4.5%	4.5%	-1.7%
Other Services	0.2%	5.6%	-6.7%	0.0%
Education	7.9%	2.1%	18.2%	-1.8%
Finance and professional services	6.6%	3.0%	9.1%	-0.7%
Health services	0.2%	4.0%	3.0%	1.3%
<i>Sub-total - Other sectors</i>	<i>6.8%</i>	<i>5.1%</i>	<i>6.8%</i>	<i>2.6%</i>
<i>Total Employment</i>	<i>6.1%</i>	<i>4.1%</i>	<i>5.7%</i>	<i>2.3%</i>

Note: For a detailed comparison of employment growth rates between Cambridge Ahead data and BRES data, please see the report titled “Comparison of the employment growth from the corporate database with BRES data”.

Table A.9 Three-year and six-year employment growth (% pa) by firm size – Detailed summary

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
<i>Micro firms</i>				
1 employee	5.5%	6.7%	-2.2%	1.8%
2-4 employees	8.1%	7.4%	10.1%	9.9%
5-9 employees	5.4%	2.6%	10.7%	6.1%
<i>Small firms</i>				
10-49 employees	9.0%	5.0%	9.6%	6.7%
<i>Medium-sized firms</i>				
50-99 employees	-8.1%	-1.5%	-2.2%	1.4%
100-249 employees	0.4%	2.6%	3.7%	6.6%
<i>Large firms</i>				
> 250 employees	7.6%	6.9%	7.4%	6.2%
<i>All firms in area</i>	6.1%	5.7%	6.4%	6.0%

Table A.10 Three-year and six-year turnover growth (% pa) by firm size – Detailed summary

	Peterborough		Combined Authority	
	3 years to 2016-17	6 years to 2016-17	3 years to 2016-17	6 years to 2016-17
<i>Micro firms</i>				
1 employee	4.2%	2.8%	-1.7%	1.3%
2-4 employees	11.7%	6.6%	12.3%	11.1%
5-9 employees	6.1%	2.4%	17.9%	10.3%
<i>Small firms</i>				
10-49 employees	6.2%	5.7%	12.1%	8.3%
<i>Medium-sized firms</i>				
50-99 employees	-24.3%	-28.3%	-6.6%	-7.2%
100-249 employees	5.5%	5.3%	5.7%	6.3%
<i>Large firms</i>				
> 250 employees	-0.3%	4.7%	6.4%	7.6%
<i>All firms in area</i>	<i>0.6%</i>	<i>2.2%</i>	<i>6.9%</i>	<i>6.5%</i>