

**Skills Impact Model**  
**Thames Gateway London**  
**Employment Projections**  
**2001-2016**

**First Quarterly Report**

**August 2003**

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# Skills Impact Model – Thames Gateway London Employment Projections 2001-2016

## First quarterly report

### 1. Introduction

1.1 This is the first of regular quarterly reports on output data from the Skills Impact Model. The model analyses ward-level employment, housing and development area data from TGLP's sites database (Basic Site Record) for the period 2001-2016. It excludes employment already created before 2001 and jobs not expected until after 2016. The focus is on the six Zones of Change in London, as follows:

- Barking/Havering Riverside
- Greenwich Peninsula
- Isle of Dogs / Canary Wharf
- Lewisham/Deptford/Greenwich
- Stratford/Leaside/Royal
- Woolwich/Belvedere/Erith

1.2 The BSR database contains information on strategic development sites provided by TGLP's borough members. This brief commentary report gives an update on development commitments and progress that is reflected in the BSR database as of the sites survey round April-June 2003.<sup>1</sup>

1.3 A full schedule of employment projections – by industry sector, occupation, and local resident take-up – is in the annex. (N.B. The SIM data in this report concerns employment from sites identified in the database only and not all employment change in Thames Gateway London. A recent report by MCA for the Thames Gateway Strategic Unit (ODPM) produced Thames Gateway-wide growth estimates; these are referred to in the commentary.<sup>2</sup>

1.4 Section 2 of this report summarises development stages; Section 3, new jobs by their location; Section 4, new jobs by industry sector and occupations; and Section 5 estimates what a likely take-up of jobs by local people could be in each Thames Gateway London borough.

### 2. ZOC Development Summary

2.1 The status of individual sites in Thames Gateway London is changing continuously as site works get underway and developer interest increases. Employment projections are based on expected timescales for site-readiness for development and when commercial floorspace becomes available and is occupied by employers.

2.2 Table 1 in the Annex is a list of larger employment sites by their current development status, in terms of their availability for development. When jobs actually come on stream will be later

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<sup>1</sup> N.B. This first quarterly report does not include data on employment derived from the following sources: temporary construction jobs from building activity at sites; jobs stimulated by demand from new residents moving into the Thames Gateway; jobs stimulated by demand from temporary students; jobs stimulated by demand from business or leisure visitors to Thames Gateway. These will be addressed in the next report.

<sup>2</sup> Thames Gateway Zones of Change Growth Assumptions 2001-2016 (TGSE – available soon on the ODPM website).

than this site availability phasing, and is indicated in the tables and charts. These major sites (with 1,000+ jobs potential) will have a more significant bearing on total employment growth.<sup>3</sup>

- 2.3 In terms of sites **available** and under construction, development is focused on continued expansion of office space at Canary Wharf, with a number of major new towers currently under construction. This phase of development is expected to be completed by 2006. However, office floorspace has yet to reach full occupancy and jobs may continue to come in through to the medium term. It should be noted that some occupying companies, such as Barclays, are largely relocating staff from existing offices, who may initially commute into Canary Wharf. Over time, job replacement may increasingly be filled by Thames Gateway residents.
- 2.4 **Short term** activity, to 2006, is expected particularly around Greenwich Peninsula and the Dome. Developers Meridian Delta Ltd (MDL), backed by US sports and entertainment group Anschutz, have planned to re-open the Dome by 2005 (though latest press news indicates that this may be delayed). Housing construction is continuing on the Peninsula and this is expected to be followed by a new business district around the Dome and North Greenwich station. Royal Arsenal sites at Woolwich are also to be progressed and a new river-crossing DLR extension is expected by 2005-06.
- 2.5 Development in the **medium-term** will focus on Stratford City, following completion of the Channel Tunnel Rail Link (CTRL) and new international station at Stratford in 2007. Associated development at the Royal Docks is also expected to be greatly advanced, such that Thames Gateway should see a major uplift in employment after 2007. Further business space is expected to be developed in Barking and Dagenham in the medium-term.
- 2.6 The **long-term** phase of Thames Gateway London will be about bringing back into use large river-side sites further to the east, north and south of the river. Employment projections at this stage are based on local development strategies, which will be subject to how market trends unfold up the long term.

### 3. New Jobs by Location

- 3.1 The Skills Impact Model measures job growth in 'gross' and 'net' terms. Gross jobs are the total new jobs that a development site can potentially accommodate: standard ratios for how much employment floorspace per land area, and how many floorspace square metres per job, have been used to estimate this.
- 3.2 Net job are calculated as gross new jobs can have two effects on the existing economy and jobs – one negative, one positive. Some 'displacement' of existing jobs occurs where competition in a sector is increased – this may lead to some redundancies, business closures, or relocation out of Thames Gateway London. The rate is higher in retail sectors (with many local customers) but less in business and industrial sectors. A positive 'multiplier' effect is that new jobs can also stimulate extra jobs through supply-chain demand – i.e. a new firm and its employees may need printing, consultancy or catering services and purchase from local suppliers (existing or newly-formed to meet the demand).
- 3.3 (N.B. The model does not calculate the sector breakdown of second-round 'multiplier' jobs, hence these are included in the summary table only).

#### Gross and Net job growth

- 3.4 In Table 2 in the Annex, gross jobs are compared against the baseline level of jobs in each area as of 2001. The equivalent for total net jobs are shown in Table 3 – 'multiplier' effect jobs have been added to the local area, although in practice some may be generated in other parts of the Gateway.

<sup>3</sup> Certain sites classified as long-term may not be developed until after 2016 and are not included in the projections data. Also, only sites located within the ODPM-definition of the Zones of Change are included in these data – all sites are counted in borough breakdowns in the annex tables and charts.

- 3.5 Of the total of 164,200 gross jobs (174,700 net jobs) by 2016, the model calculates that 40% or 65,900 (72,600 net) will be on the Isle of Dogs. This equates to a further doubling of employment levels on the Isle of Dogs in the long term, or by 7.0% (7.7%) growth per year. (The estimate in the ODPM report is for 70,000 net growth over the period).
- 3.6 The next largest source of jobs is Stratford/Leaside/Royals ZOC, which is projected to create 41,600 gross (43,100 net) additional jobs by 2016. The ODPM report estimate is for a lower figure of 30,000. The greater level of jobs may only be achieved with step improvements in local labour market skills supply, and would involve a 6.6% (6.8% net) average annual growth rate on employment levels in 2001.
- 3.7 Third largest future job source in Thames Gateway London, based on local sites information, is expected to be Barking/Havering Riverside with potential for 22,900 gross (23,900 net) jobs by 2016. However, much of this employment would be on land that is currently inaccessible or requiring remediation works before development. These jobs are therefore much less certain (as is noted in the ODPM report) at present, though represent more extensive development of Thames Gateway London over medium-to-long terms.
- 3.8 The other Zones of Change account for smaller levels of job growth (see Tables 2 and 3).

#### 4. New Jobs by Industry Sectors and Occupations

- 4.1 The Skills Impact Model calculates employment projections by standard industrial classification (SIC) based on a Planning Use Class breakdown of site employment uses.<sup>4</sup> Each planning use-type tends to be used by certain industry sectors in London; estimates for use of sites by industry sectors has been projected forward for Thames Gateway London. **(N.B.** SIC classification includes both production and service-support jobs in a sector, i.e. an oil company HQ or manufacturing company head-office will be counted in Primary or Manufacturing sector, respectively. **N.B. 2** – SIC classification jobs for Construction are those at locally-based firms only, and not for temporary on-site works at ZOC developments).
- 4.2 A similar calculation is made in the SIM model to convert jobs by industry classification to those by standard occupational classification (SOC). Each industry sector employs a certain profile of jobs – for example, retail will have a higher proportion of sales staff and relatively fewer professional grades. Estimates in the model are based on official data and local workforce surveys for London East and London as a whole.

##### Jobs by Sector

- 4.3 The following figures are for total net jobs created over 2001 to 2016.
- **Primary** – 3,300 jobs (2% of total), mainly in head-office or service functions at Isle of Dogs or Stratford/Leaside/Royals, though some industrial activity at Barking/Havering Riverside ZOC;
  - **Manufacturing** – 21,300 (13%), though almost half of the total is dependent on attracting growth-sector innovative manufacturing at Barking/Havering Riverside over the long-term;
  - **Construction** – 1,400 permanent local jobs (1%). The local sector is predominantly general building and refurbishment type firms; demand in this sector may increase with greater housing in Thames Gateway London.
  - **Wholesale** – 8,200 (5%). These jobs are largely in large-site ZOCs.

<sup>4</sup> Use Class codes are for retail (A1), estate agents/banks etc (A2), restaurants/pubs/bars (A3), office (B1a), high-tech (B1b), light industrial (B1c), general industrial (B2), warehouse/storage (B8), hotels (C1), hospitals (C2), museums/institutions (D1), cinemas/sports hall/etc (D2).

- **Retail** – 30,500 (19%). This is the second largest projected jobs sector, with growth concentrated in Isle of Dogs and Stratford – each emerging as new regional shopping centres by the medium term.
- **Hotels, restaurants, bars** – 11,400 (7%). Growth in this sector represents a significant on current employment levels and will be concentrated in Isle of Dogs and to a lesser extent in Stratford/Leaside/Royals. Longer term growth in Barking/Haverling Riverside will be linked to successful industrial, commercial and residential expansion in the zone.
- **Transport/logistics** – 5,800 (4%). These jobs will largely located in large outer-London sites, such as Bexley and Haverling.
- **Communications** – 4,500 (3%). Most new jobs will be telecommunications (rather than post) and be head-office or service functions, mainly on Isle of Dogs.
- **Financial services** – 14,900 (9%). There will continue to be some expansion in the sector over 2001-2016, following earlier growth. However, the sector has been shedding jobs in recent months and Canary Wharf office occupancy rates are lower than projected. Stratford is likely to attract head- or regional-offices close to the CTRL station.
- **Business services** – 38,100 (24%). This will be the largest growth sector, but covers a wide range of services from IT to advertising. As well as on the Isle of Dogs (20,900), there is expected to be major job growth at Stratford/Leaside/Royals (9,500) and Greenwich Peninsula (3,100).
- **Public administration** – 10,100 (6%). Local government and agency services will expect to be occupying some new employment space, although this will be low in proportion to current public-sector employment shares in the area.
- **Education/health** – 4,200 (3%). The TGLP sites database identified a number of new health and education facilities, normally as part of housing developments, however this does not represent the total public service need that will arise from total population growth that is projected by 2016.
- **Other/community services** – 5,100 (3%). New community leisure and service facilities will be created in Thames Gateway London, including museums and entertainment centres.

4.4 The majority of new jobs in Thames Gateway London will, therefore, be in service sectors (85% of the total) and future growth in industrial sectors will depend on longer term strategic development. Charts 1 to 11 in the Annex illustrate the phasing of gross jobs growth by Industry Sector over 2001-2016.

#### **Jobs by Occupation**

4.5 The following figures are for total net jobs created over 2001 to 2016.

- **Manager / Administrator** – 32,000 jobs (20% of total). The occupational group with the greatest demand covers general business manager as well as the specialist managers needed in all industry sectors and higher-level administrators. These jobs would require minimum Level 3 qualification and good communication and problem-solving skills.
- **Science & Engineering Professional** – 2,100 (1%). There will only be a small, specialist demand for technology professionals at Level 4 and above, due to relatively low R&D investment expected in Thames Gateway London.
- **Other Professionals** – 12,900 (8%). This includes finance and legal professionals at Level 4 qualification or above, and will be concentrated in Financial and Business Services sectors.

- **Science/Engineering Associate Professional and Technical** – 8,000 (5%). There will be greater demand at this technical level (Level 3 and above) as this group includes computer/IT programmer and engineers.
- **Other Associate Prof. & Tech.** – 9,000 (6%). This group covers a wider range of Level 3+ skills across most sectors, particularly in knowledge-based business services.
- **Skilled Engineering** – 2,900 (2%). Thames Gateway London is projected to require a small number of skilled engineers, at Level 3 or above, in future and these will be in specific growth industry sectors.
- **Other Skilled Trades** – 7,100 (4%). This trade group also includes trained chefs working in hotels and restaurants and is therefore projected to increase more significantly.
- **Plant & Machine Operatives** – 8,500 (5%). This level of demand for Level 2+ manual operatives will depend to some extent on long term development of industrial areas in Barking/Havering Riverside and Belvedere.
- **Driver Operatives** – 4,500 (3%). There will be an increase in demand in distribution services as well as in taxi/car services for new businesses.
- **Clerical / Secretarial** – 24,000 (15%). The third largest occupational projected demand by 2016, requiring Level 2 qualification and good literacy, numeracy and communication skills. 11,600 of the total are expected to be on the Isle of Dogs.
- **Sales** – 27,800 (18%). This is expected to be the second largest area of job growth, even allowing for possible loss of existing retail jobs in Thames Gateway London. The main demand will be at Stratford (7,200) and Isle of Dogs (12,600) regional shopping centres.
- **Personal Services** – 7,800 (5%). This includes various service jobs in hotels/restaurants, business services etc.
- **Protective Security** – 3,800 (2%). There will be steady demand for security staff throughout areas of Thames Gateway growth, particularly at Isle of Dogs
- **Elementary Jobs** – 8,600 (5%). Basic entry-level jobs will be available in all sectors, however these can be concentrated in industrial activity that is expected to decline in relative terms.

4.6 Overall, there will be increasing demand for higher-level qualified staff in Thames Gateway London over 2001-2016. A good basic education and good numeracy and literacy will be seen as the norm, in terms of building competitive new business sectors. However, the level of new employment being brought into the sub-region will depend in some sectors on the quality of labour and skills on offer. Investing companies may opt for other, higher-skilled locations in the country if Thames Gateway is seen as underperforming.

## 5. New Jobs by Local Job Opportunities

5.1 So far we have looked at employment projections in workplace terms, i.e. where new job locations will emerge and in what sectors and occupations. The Skills Impact Model includes an analysis and projection of future travel-to-work patterns in Thames Gateway London and therefore can estimate what share of these jobs are likely to be accessible to local people in each Borough.

5.2 Key to Thames Gateway development is the new transport infrastructure that is being introduced – Jubilee Line extension, DLR extensions, CrossRail, new river-crossings, trunk road upgrades, as well as the CTRL to Stratford. The model therefore projects forward travel-

to-work patterns in 1991 (Census of Population) and 2001 (LSC workforce survey) to what they could be by 2016. Thames Gateway is not a contained labour market area and the level of new employment will require that people still commute into the sub-region in significant numbers. Population levels, particular in Barking and Dagenham, are projected to increase and this will increase labour supply from this residential area. Based on this information, the model estimates the distribution of net new jobs that could be taken by people living in each Boroughs, and outside.

- 5.3 Both the total level of employment and the rate of local take-up will change in short, medium and long terms. Charts 12 to 25 in the Annex illustrate the phasing of gross jobs growth in each local resident Borough, by Occupation over 2001-2016. For planning purposes, the bar charts indicate the approximate level of local job demand by occupation associated with the Thames Gateway development sites monitored in the TGLP database.

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For further information contact Thames Gateway London Partnership on 020 8223 7473.

## ANNEX – SKILLS IMPACT MODEL DATA & CHARTS

**Table 1**

<b>Development Sites (1,000+ jobs capacity)</b>	<b>Borough</b>
<b>Available (2003):</b>	
Canada Square-15 Canada Sq	Tower Hamlets
Canada Square-20 Canada Square	Tower Hamlets
Jubilee Park-10 Upper Bank Street	Tower Hamlets
Jubilee Park-20 Bank St	Tower Hamlets
Jubilee Park-25 Bank St office	Tower Hamlets
Jubilee Park-40 Bank Street	Tower Hamlets
<b>Short-term (2003-2006):</b>	
Roding Valley - Fresh Wharf Remainder	Barking and Dagenham
Dagenham Dock-Thames Gateway Park Phase 2	Barking and Dagenham
Royal Arsenal-Industrial	Greenwich
Royal Arsenal-Other	Greenwich
White Hart Triangle / West Thamesmead Business Park	Greenwich
Central Peninsula / Peninsula CBD	Greenwich
Meridian Gateway (Creek Road Zone)	Greenwich / Lewisham
Millennium Quarter-WTCL Phase 2 (Office)	Tower Hamlets
Churchill Place-1 Churchill Place (Barclays)	Tower Hamlets
Churchill Place-BP3/4	Tower Hamlets
<b>Medium-term (2007-2011):</b>	
"45 acre site" / Merrielands	Barking and Dagenham
Dagenham Dock – Innogy Sites	Barking and Dagenham
Dagenham Dock-Remainder	Barking and Dagenham
Beam Reach Business and Technology Park	Havering
Convoys Wharf	Lewisham
Cody Road	Newham
Royal Docks-Royals Business Park (Albert Dock North Side) Phase 1	Newham
Beckton Gateway-Gallions Reach Retail (Phase 1)	Newham
Stratford City-Phase 1 (CTRL/Retail)	Newham
Stratford City-Phase 2	Newham
Millennium Quarter-Other Commercial	Tower Hamlets
North Quay (Shed 35)	Tower Hamlets
<b>Long-term (2012-2016):</b>	
Creekmouth	Barking and Dagenham
Burke Bolton Site 1 (Belvedere)	Bexley
East Thamesmead Business Park	Bexley
Ford Car Storage	Havering
Beckton Gateway-Phase 2	Newham
Carpenters Estate	Newham

Source: TGLP Sites Database (Basic Site Record)

**Table 2 - Gross Jobs from Thames Gateway Development Sites**

	Base-line	SIM Projections						Av % Chng pa 2001-2016
		Gross jobs				Total % change		
	2001	2006	2011	2016	01-06	01-11	01-16	
<b>Zones of Change</b>								
Barking/Havering Riverside ZOC	20,400	4,900	12,600	22,900	24%	62%	112%	7.5%
Greenwich Peninsula ZOC	11,300	3,600	7,300	11,100	31%	65%	98%	6.5%
Isle of Dogs ZOC	62,500	33,500	53,600	65,900	54%	86%	106%	7.0%
Lewisham/Deptford/Greenwich ZOC	12,900	700	1,800	1,800	6%	14%	14%	0.9%
Stratford/Leaside/Royals ZOC	42,100	2,700	20,700	41,600	6%	49%	99%	6.6%
Woolwich/Belvedere/Erith ZOC	29,900	3,800	10,400	12,500	13%	35%	42%	2.8%
<b>Total All ZOCs</b>								
Barking and Dagenham	48,100	2,900	9,300	16,300	6%	19%	34%	2.3%
Bexley	63,500	2,700	5,500	7,100	4%	9%	11%	0.7%
Greenwich	61,700	6,100	14,700	19,000	10%	24%	31%	2.1%
Hackney	92,200	0	0	0	0%	0%	0%	0.0%
Havering	75,100	3,600	5,900	10,100	5%	8%	13%	0.9%
Lewisham	62,800	0	3,500	3,500	0%	6%	6%	0.4%
Newham	64,200	3,200	20,400	41,300	5%	32%	64%	4.3%
Redbridge	68,000	0	0	0	0%	0%	0%	0.0%
Tower Hamlets	149,800	33,500	54,600	67,000	22%	36%	45%	3.0%
Waltham Forest	57,000	0	0	0	0%	0%	0%	0.0%
<b>Total TG Boroughs</b>	<b>742,300</b>	<b>51,900</b>	<b>113,800</b>	<b>164,200</b>	<b>7%</b>	<b>15%</b>	<b>22%</b>	<b>1.5%</b>

Source: Skills Impact Model (Apr-Jun 2003). N.B. Some columns may not add due to rounding.

**Table 3 - Net Additional Jobs from Thames Gateway Development Sites**

	Basel- ine	SIM Projections						Av % Chng pa 2001- 2016
		Gross jobs				Total % change		
	2001	2006	2011	2016	01-06	01-11	01-16	
<b>Zones of Change</b>								
Barking/Havering Riverside ZOC	20,400	5,200	13,100	23,900	25%	64%	117%	7.8%
Greenwich Peninsula ZOC	11,300	3,900	8,200	12,400	35%	72%	109%	7.3%
Isle of Dogs ZOC	62,500	37,800	59,500	72,600	61%	95%	116%	7.7%
Lewisham/Deptford/Greenwich ZOC	12,900	800	1,900	1,900	6%	15%	15%	1.0%
Stratford/Leaside/Royals ZOC	42,100	2,800	21,200	43,100	7%	50%	102%	6.8%
Woolwich/Belvedere/Erith ZOC	29,900	3,800	10,200	12,300	13%	34%	41%	2.7%
<b>Total All ZOCs</b>								
Barking and Dagenham	48,100	2,900	9,600	16,700	6%	20%	35%	2.3%
Bexley	63,500	2,600	5,400	7,000	4%	9%	11%	0.7%
Greenwich	61,700	6,500	15,500	20,200	10%	25%	33%	2.2%
Hackney	92,200	0	0	0	0%	0%	0%	0.0%
Havering	75,100	3,700	6,200	10,700	5%	8%	14%	0.9%
Lewisham	62,800	0	3,600	3,600	0%	6%	6%	0.4%
Newham	64,200	3,300	20,900	42,800	5%	33%	67%	4.4%
Redbridge	68,000	0	0	0	0%	0%	0%	0.0%
Tower Hamlets	149,800	37,800	60,500	73,700	25%	40%	49%	3.3%
Waltham Forest	57,000	0	0	0	0%	0%	0%	0.0%
<b>Total TG Boroughs</b>	742,300	56,900	121,600	174,700	8%	16%	24%	1.6%

Source: Skills Impact Model (Apr-Jun 2003). N.B. Some columns may not add due to rounding.

**Table 4 - Net Additional Direct\* Jobs from Thames Gateway Development Sites by Industry Sector 2001-2016**

Job Location	Primary	Manufacturing	Construction	Wholesale	Retail	Hotels, Restaurants, Bars	Transport / Logistics	Communications	Financial Services	Business Services	Public Administration	Education/Health	Other/Community Services	All Sectors
<b>Zones of Change</b>														
Barking/Havering Riverside ZOC	842	8864	159	1199	3185	1969	1420	388	357	1888	290	212	173	20946
Greenwich Peninsula ZOC	226	1399	80	402	1475	234	226	387	1207	3068	806	348	746	10604
Isle of Dogs ZOC	1161	3483	581	2903	12946	5857	1161	2322	8708	20899	5807	2322	2420	70570
Lewisham/Deptford/Greenwich ZOC	30	89	15	74	218	121	30	59	223	535	149	59	59	1661
Stratford/Leaside/Royals ZOC	639	3197	297	1602	9058	1805	908	1103	3852	9522	2568	1058	1237	36846
Woolwich/Belvedere/Erith ZOC	273	3112	209	1640	1081	1078	1725	160	160	1085	166	90	258	11037
<b>Total All ZOCs</b>	<b>3171</b>	<b>20144</b>	<b>1341</b>	<b>7820</b>	<b>27963</b>	<b>11064</b>	<b>5470</b>	<b>4419</b>	<b>14507</b>	<b>36997</b>	<b>9786</b>	<b>4089</b>	<b>4893</b>	<b>151664</b>
Barking and Dagenham	472	5394	126	999	4097	1661	1067	99	65	613	51	50	28	14722
Bexley	141	1768	160	1263	72	585	1328	105	84	724	56	55	22	6363
Greenwich	413	3101	157	953	2701	848	758	508	1506	4006	1064	444	1041	17500
Hackney	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Havering	438	4184	57	398	688	319	566	313	310	1418	267	175	173	9306
Lewisham	47	142	24	118	688	223	47	94	354	849	236	94	94	3010
Newham	635	3185	295	1592	8957	1702	904	1095	3822	9450	2617	1050	1332	36636
Redbridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tower Hamlets	1169	3506	584	2921	13294	6062	1169	2337	8764	21034	5845	2337	2435	71457
Waltham Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total TG Boroughs</b>	<b>3315</b>	<b>21279</b>	<b>1403</b>	<b>8244</b>	<b>30496</b>	<b>11398</b>	<b>5839</b>	<b>4552</b>	<b>14906</b>	<b>38094</b>	<b>10135</b>	<b>4206</b>	<b>5126</b>	<b>158993</b>

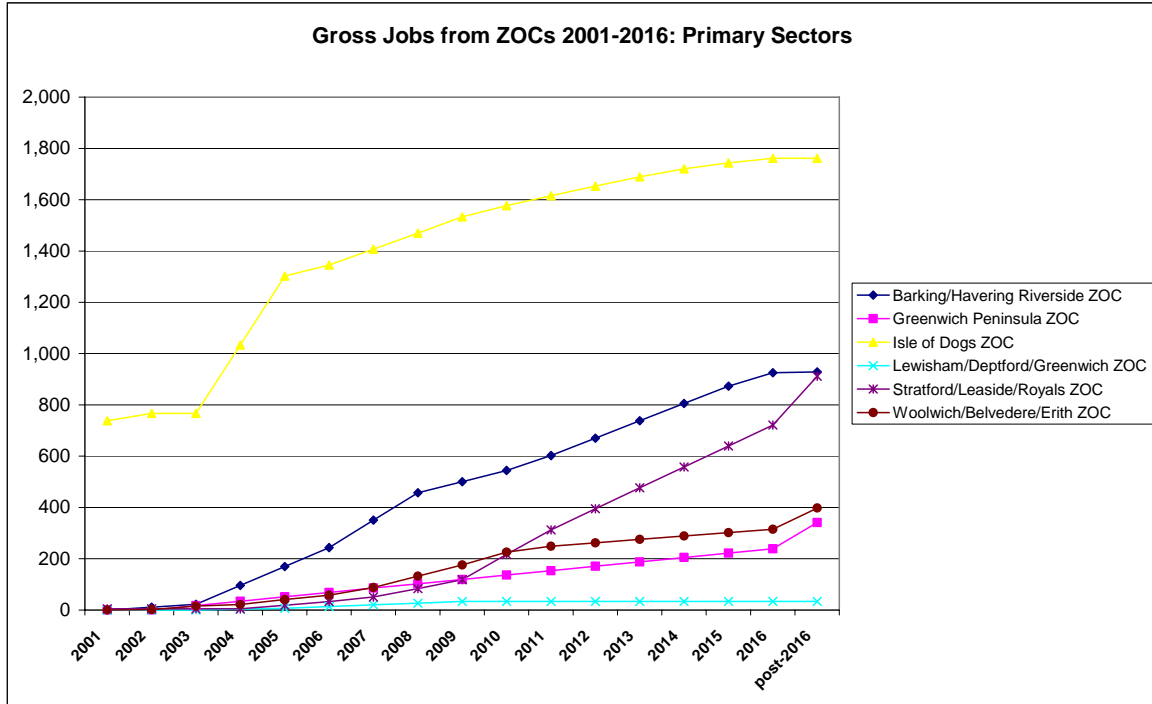
Source: Skills Impact Model (Apr-Jun 2003). N.B. Some columns may not add due to rounding. \* Direct net additional jobs includes displacement but excludes multiplier effects (in other sectors).

**Table 5 - Net Additional Direct\* Jobs from Thames Gateway Development Sites by Occupation Sector 2001-2016**

Job Location	Managers/ Admin	Science & Eng Professional	Other Professionals	Science & Eng AP/T	Other AP/T	Skilled Engineering	Skilled Trades Other	Plant Operatives	Driver Operatives	Clerical	Sales	Personal Service	Protective Security	Elementary	All Occupations
<b>Zones of Change</b>															
Barking/Havering Riverside ZOC	3578	463	950	882	722	739	2027	2864	996	2268	3061	983	476	937	20946
Greenwich Peninsula ZOC	2218	147	985	586	706	177	480	560	241	1753	1563	366	222	602	10607
Isle of Dogs ZOC	14825	731	6510	3772	4499	863	2061	2036	1377	11640	12611	3971	1638	4036	70570
Lewisham/Deptford/Greenwich ZOC	355	19	164	95	112	20	50	50	31	286	259	88	36	96	1662
Stratford/Leaside/Royals ZOC	7604	411	3105	1852	2180	578	1342	1485	885	5719	7199	1545	887	2052	36846
Woolwich/Belvedere/Erith ZOC	2048	205	680	546	490	323	774	1046	671	1380	1467	562	298	546	11036
<b>Total All ZOCs</b>	<b>30629</b>	<b>1976</b>	<b>12395</b>	<b>7734</b>	<b>8709</b>	<b>2700</b>	<b>6735</b>	<b>8041</b>	<b>4201</b>	<b>23046</b>	<b>26160</b>	<b>7515</b>	<b>3558</b>	<b>8269</b>	<b>151666</b>
Barking and Dagenham	2477	270	538	518	425	494	1258	1769	720	1437	2977	795	393	652	14722
Bexley	1221	128	440	360	300	190	440	591	450	840	619	292	173	319	6364
Greenwich	3503	257	1422	899	1031	353	926	1151	533	2646	2706	727	396	949	17500
Hackney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Havering	1658	232	533	460	394	336	964	1355	418	1143	966	238	178	431	9307
Lewisham	629	30	267	155	185	38	87	86	60	484	587	158	72	171	3009
Newham	7564	409	3102	1845	2183	574	1337	1478	879	5709	7121	1512	881	2042	36635
Redbridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tower Hamlets	14988	736	6559	3801	4535	874	2079	2055	1397	11748	12867	4069	1665	4084	71457
Waltham Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total TG Boroughs</b>	<b>32039</b>	<b>2062</b>	<b>12861</b>	<b>8037</b>	<b>9053</b>	<b>2860</b>	<b>7091</b>	<b>8485</b>	<b>4458</b>	<b>24006</b>	<b>27843</b>	<b>7790</b>	<b>3759</b>	<b>8649</b>	<b>158994</b>

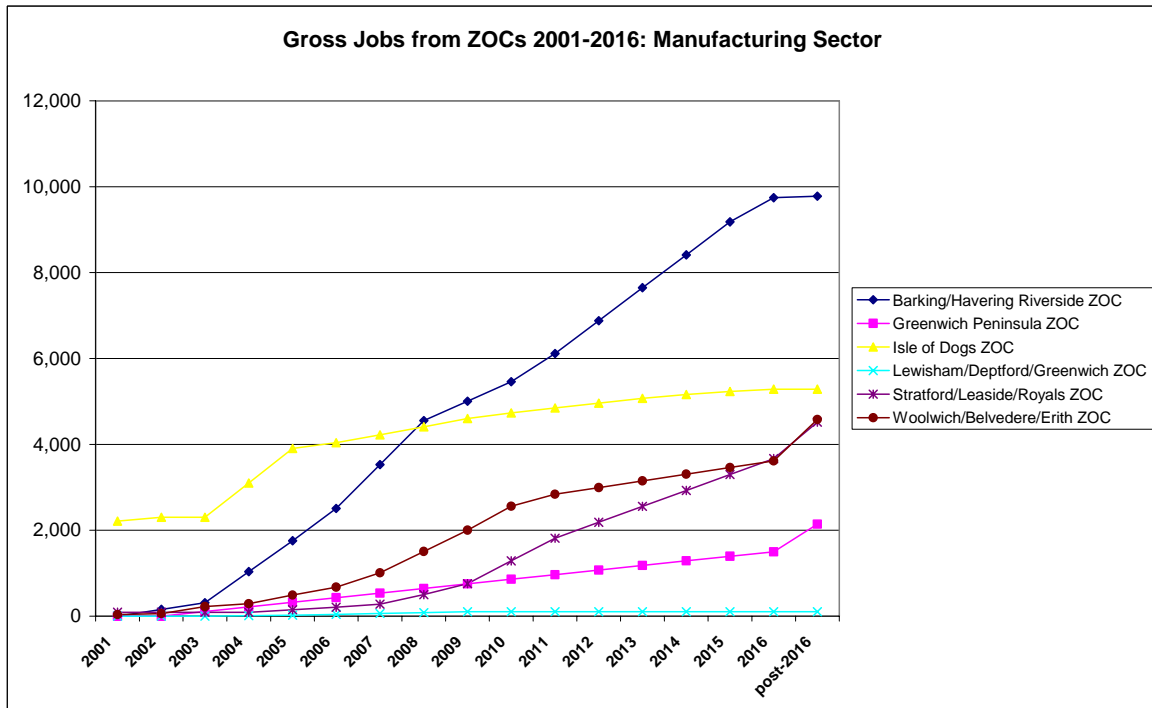
Source: Skills Impact Model (Apr-Jun 2003). N.B. Some columns may not add due to rounding

Chart 1



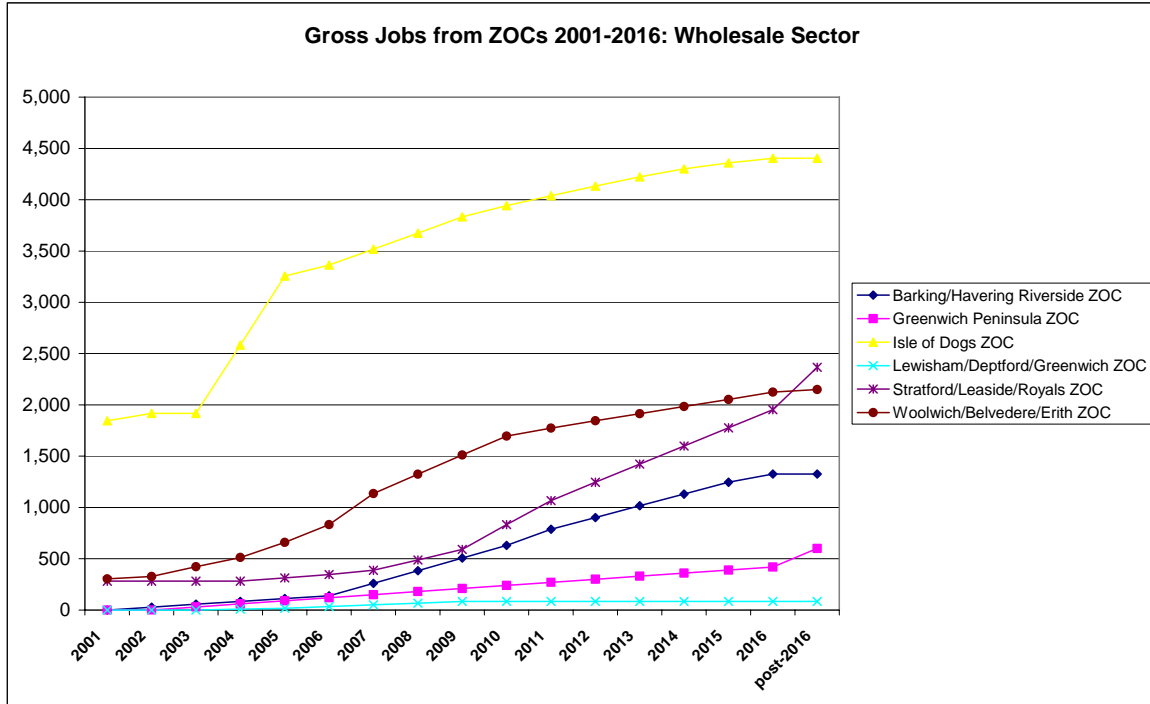
Source: Skills Impact Model (Apr-Jun 2003)

Chart 2



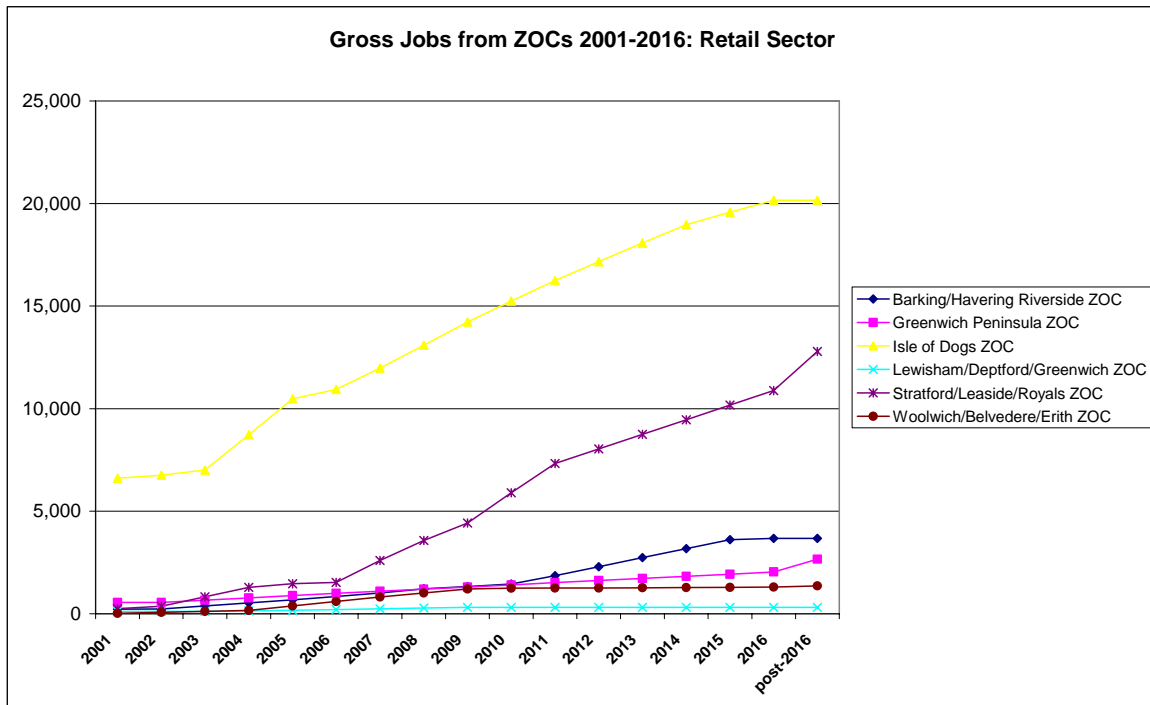
Source: Skills Impact Model (Apr-Jun 2003)

Chart 3



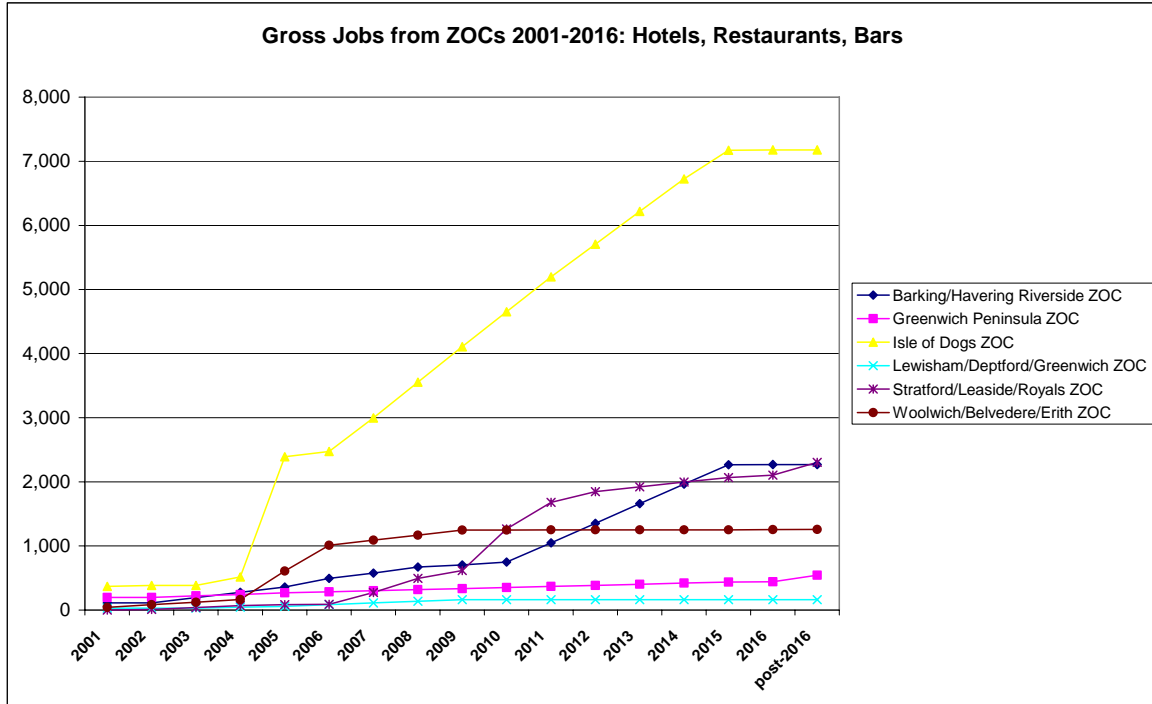
Source: Skills Impact Model (Apr-Jun 2003)

Chart 4



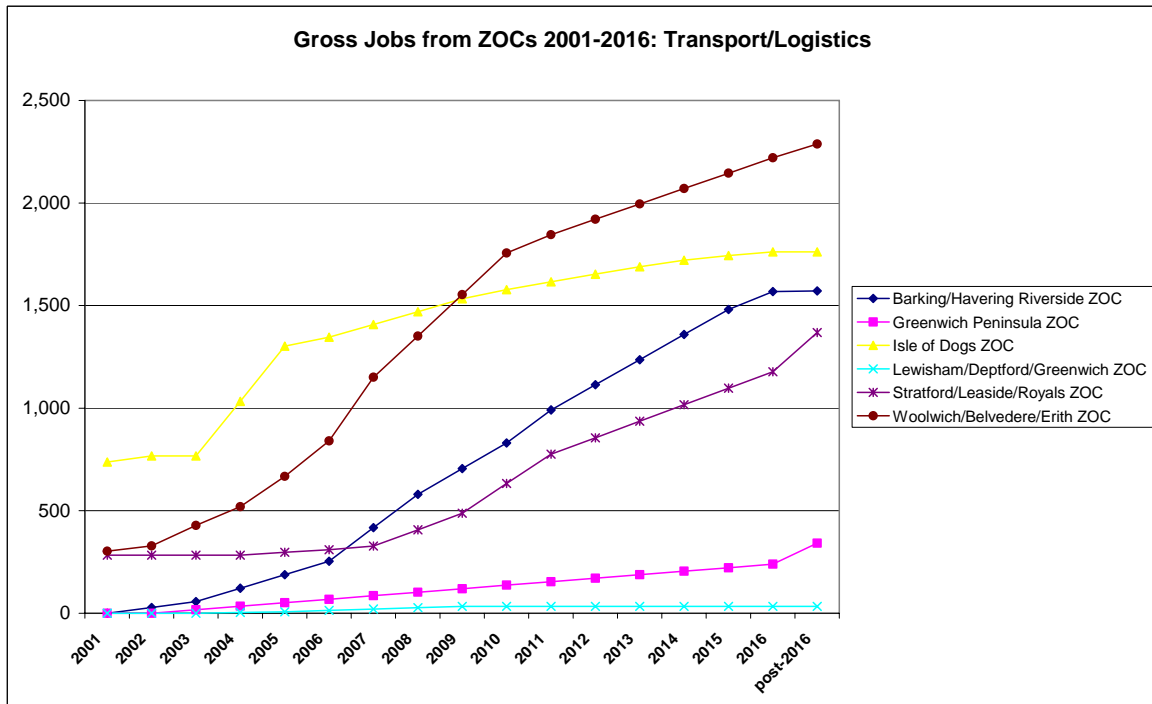
Source: Skills Impact Model (Apr-Jun 2003)

Chart 5



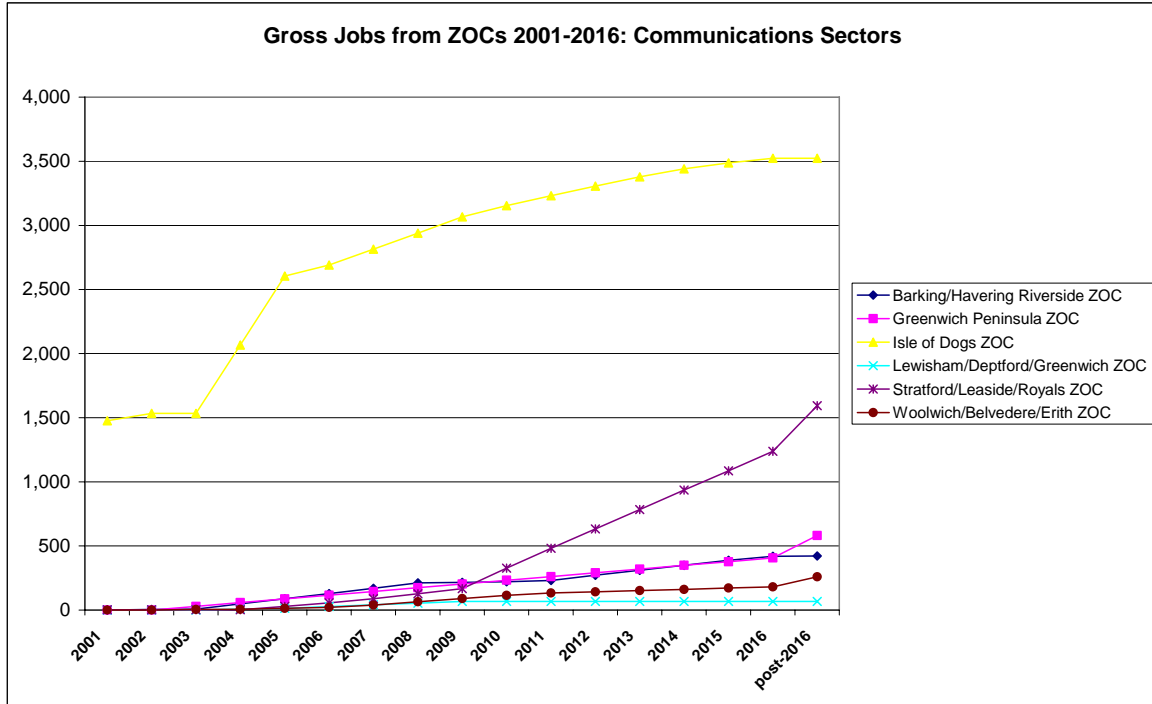
Source: Skills Impact Model (Apr-Jun 2003)

Chart 6



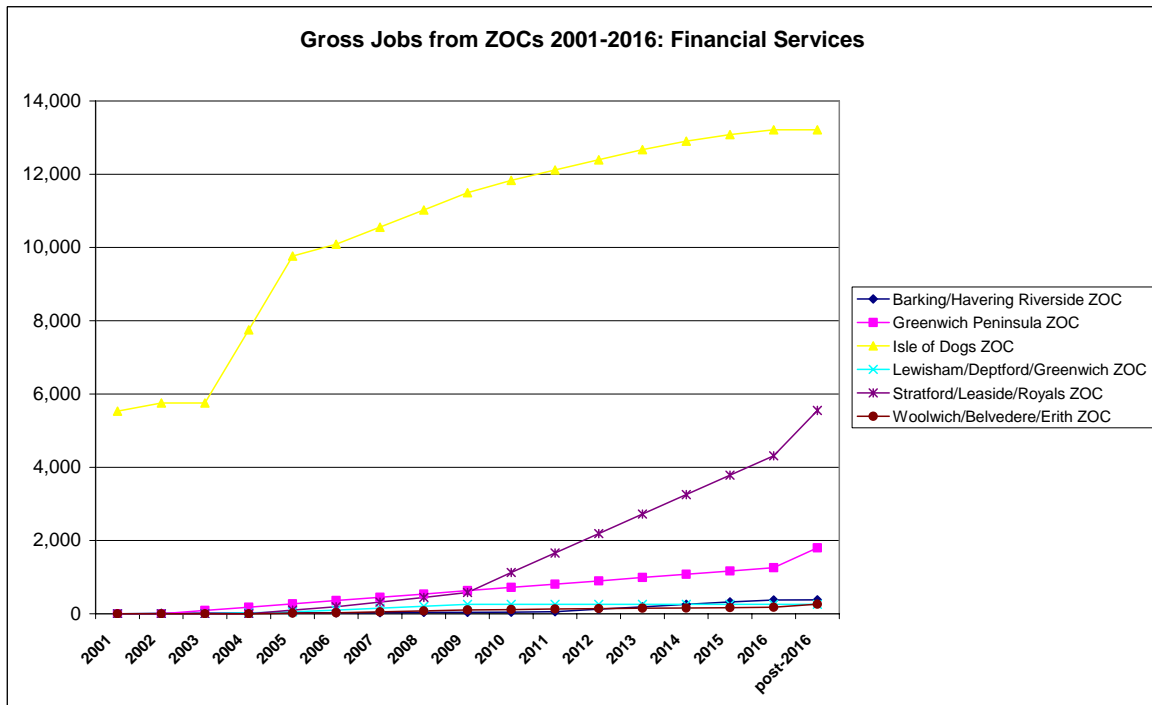
Source: Skills Impact Model (Apr-Jun 2003)

Chart 7



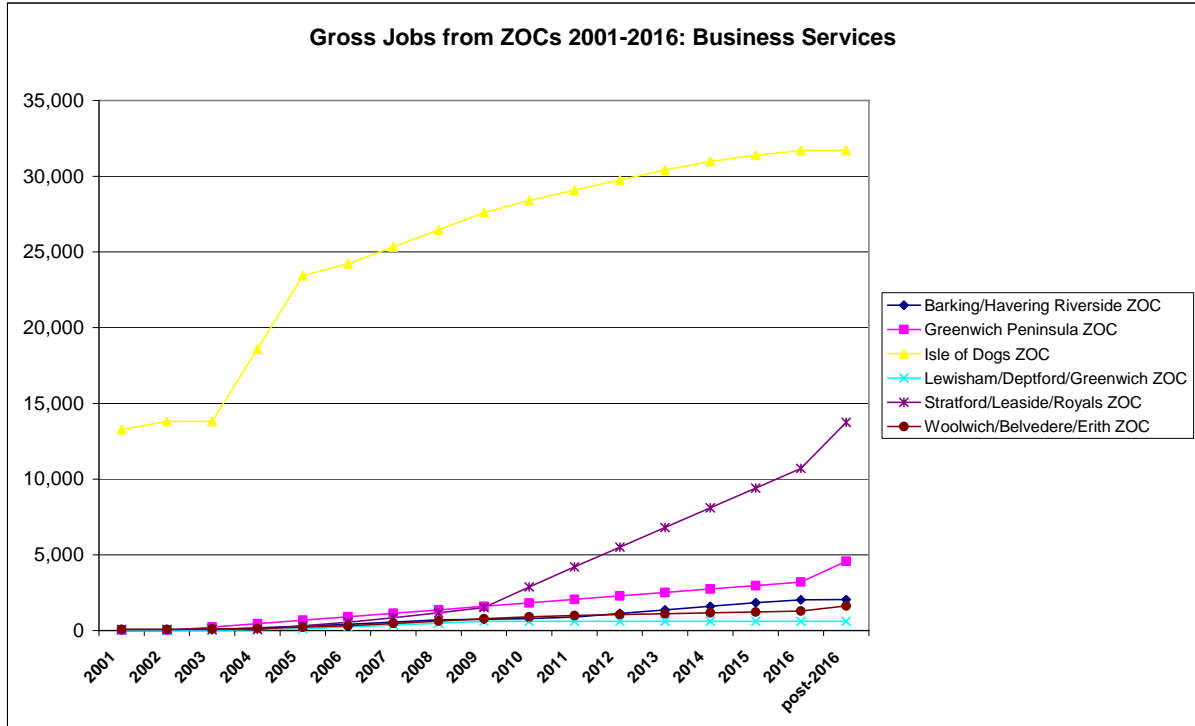
Source: Skills Impact Model (Apr-Jun 2003)

Chart 8



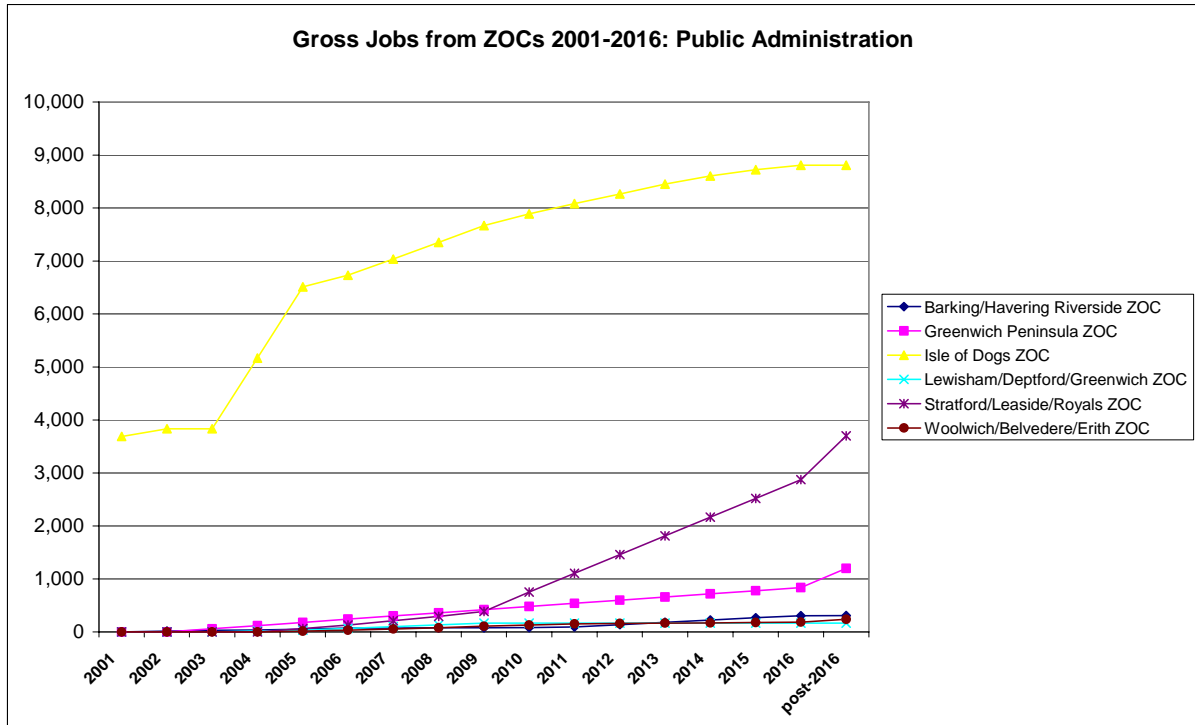
Source: Skills Impact Model (Apr-Jun 2003)

Chart 9



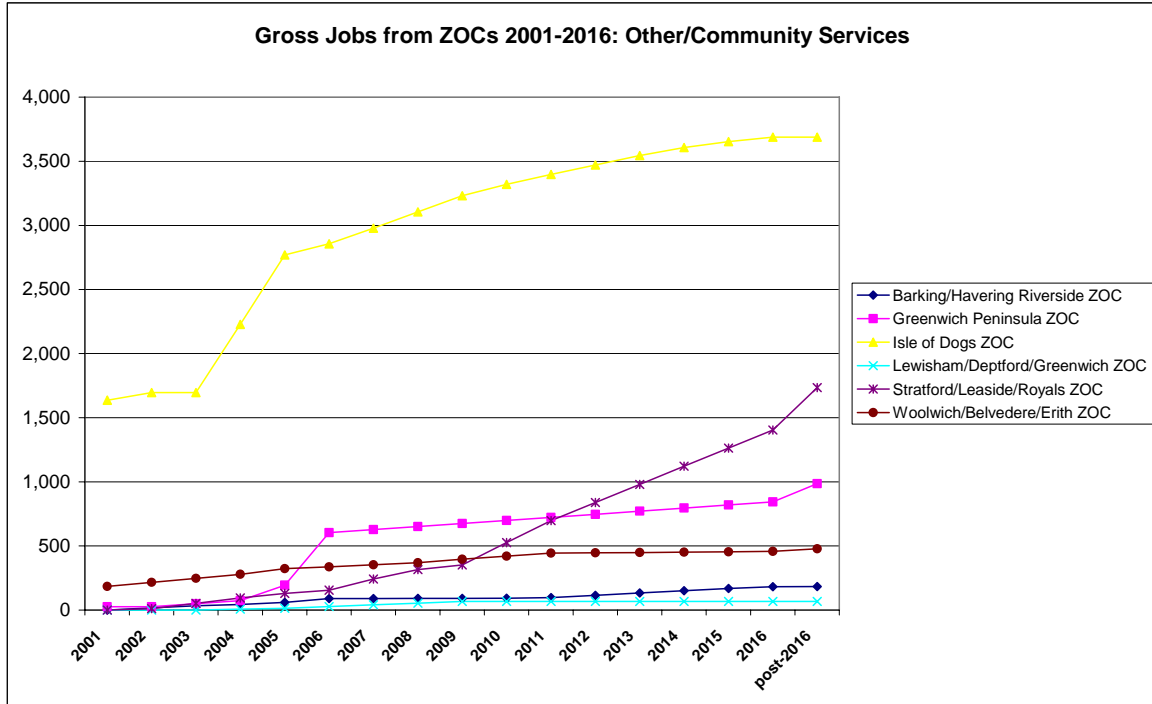
Source: Skills Impact Model (Apr-Jun 2003)

Chart 10



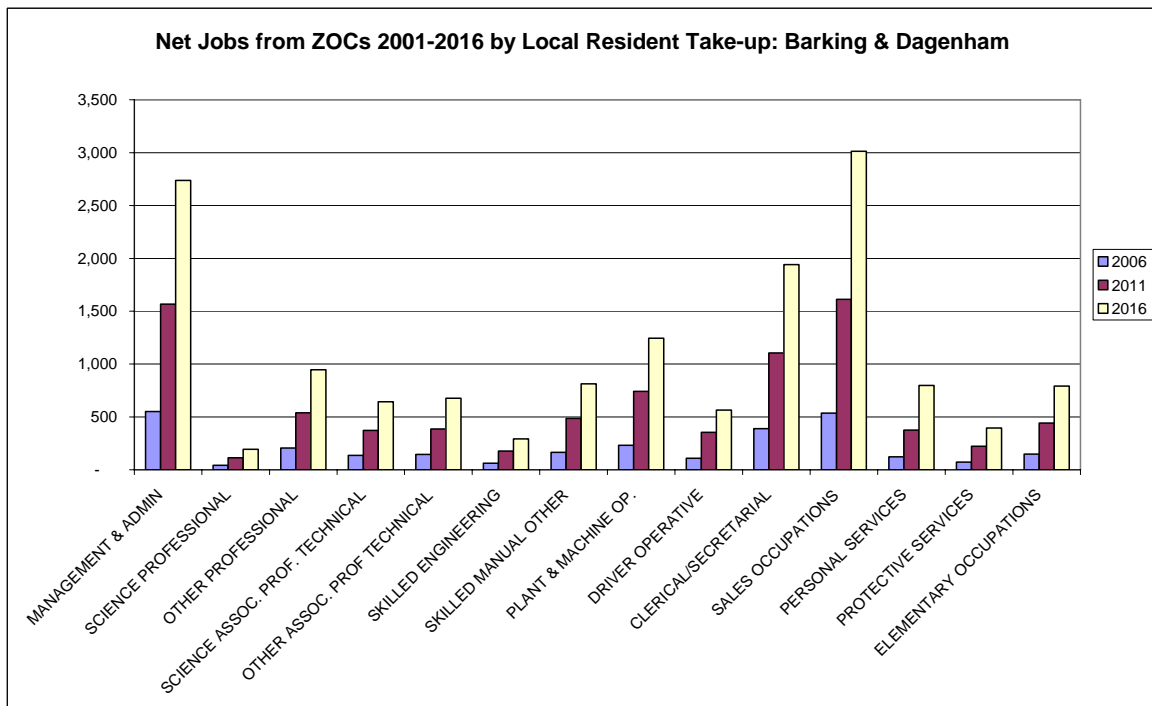
Source: Skills Impact Model (Apr-Jun 2003)

Chart 11



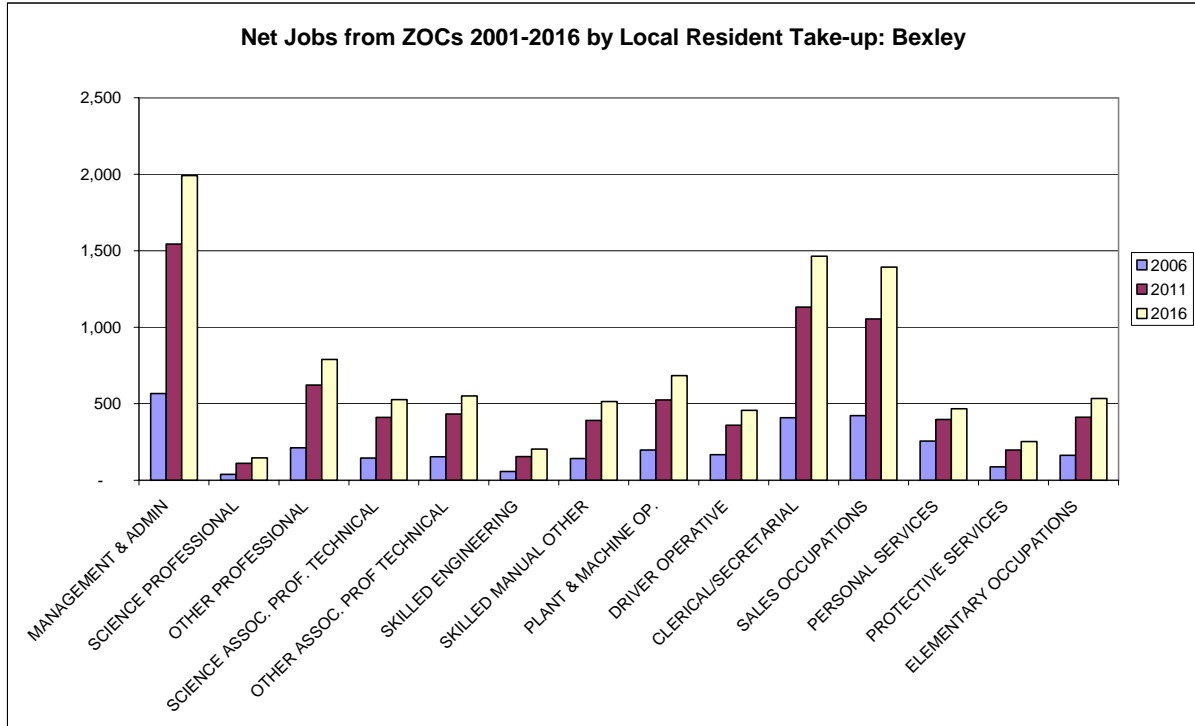
Source: Skills Impact Model (Apr-Jun 2003)

Chart 12



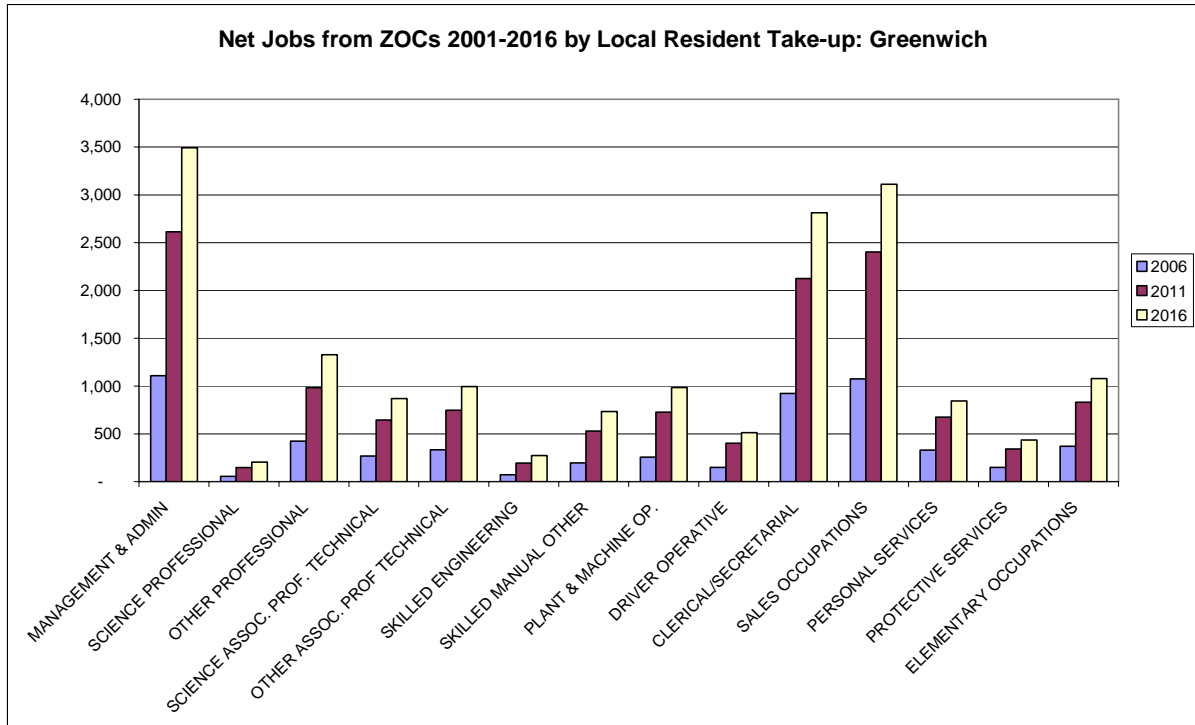
Source: Skills Impact Model (Apr-Jun 2003)

Chart 13



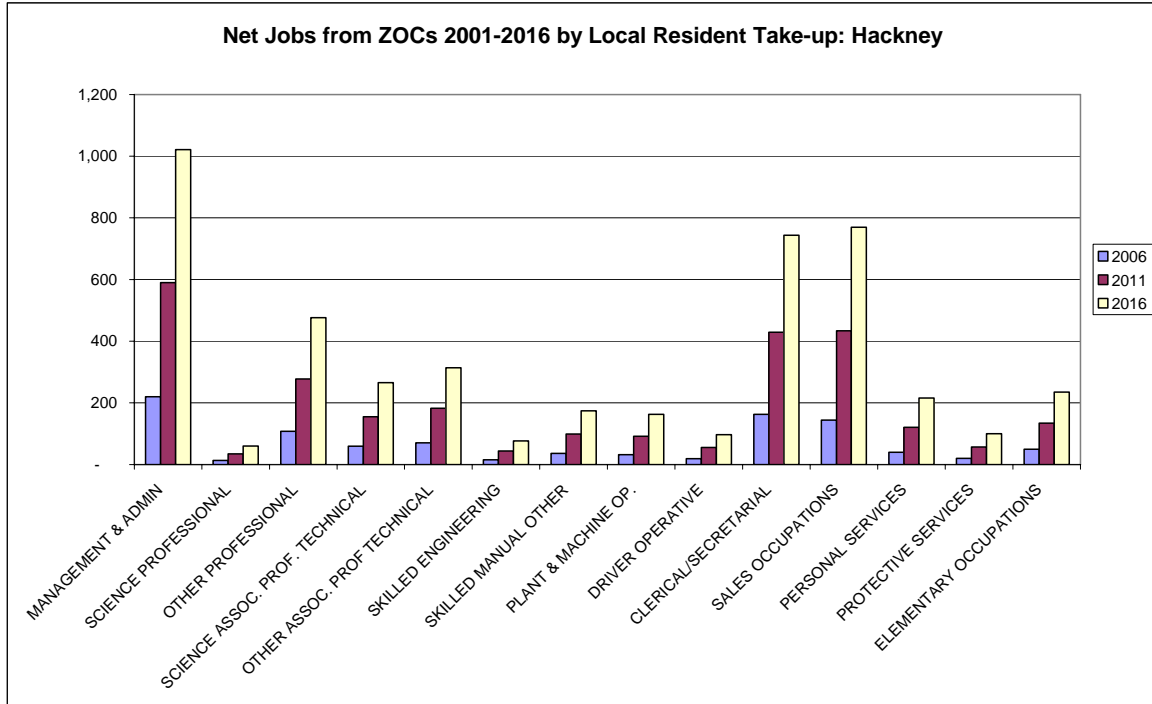
Source: Skills Impact Model (Apr-Jun 2003)

Chart 14



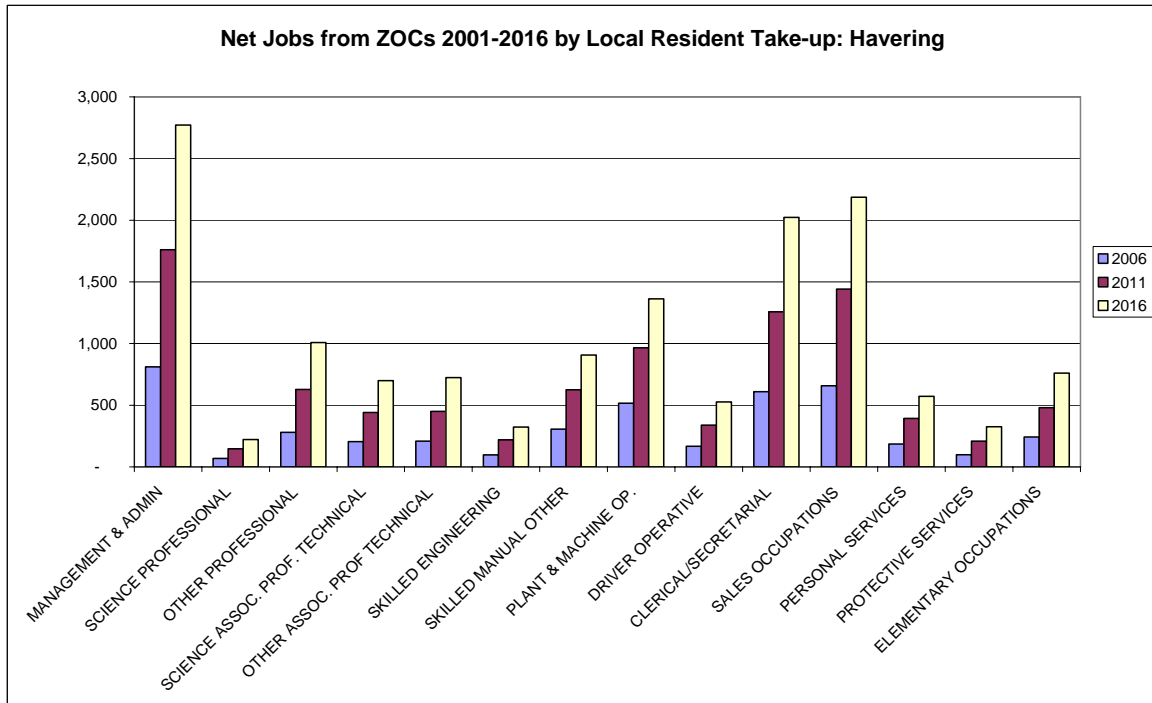
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 15**



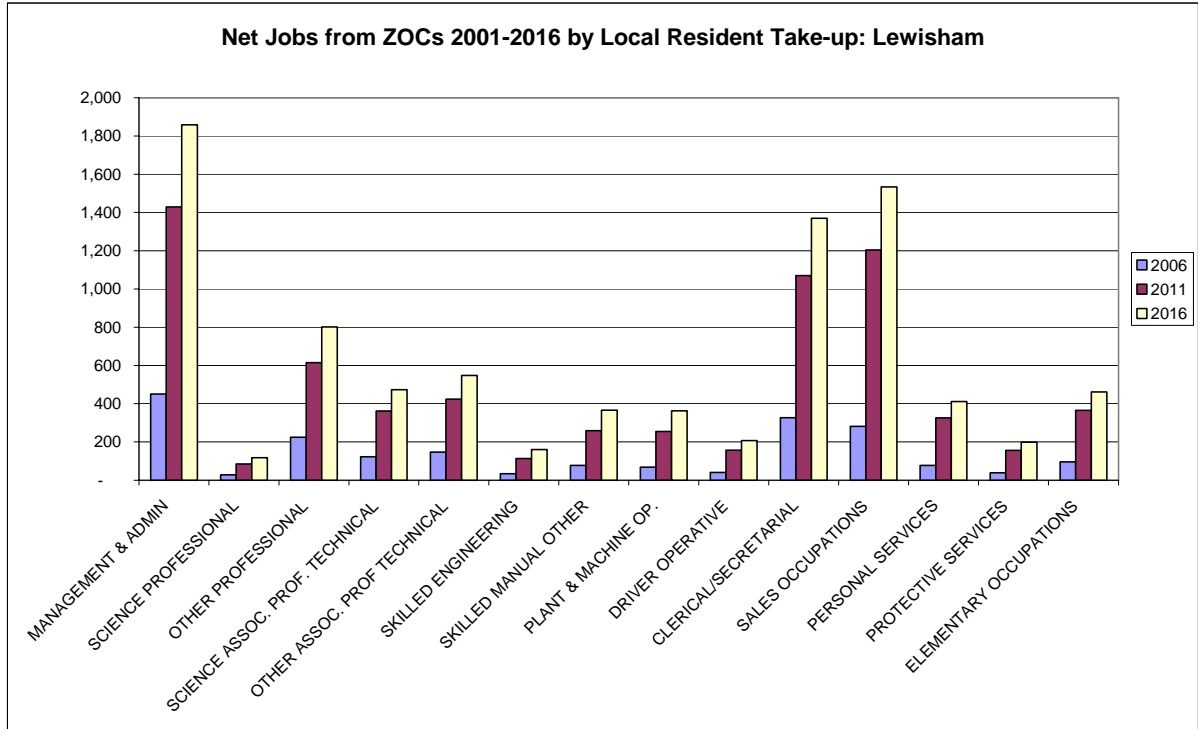
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 16**



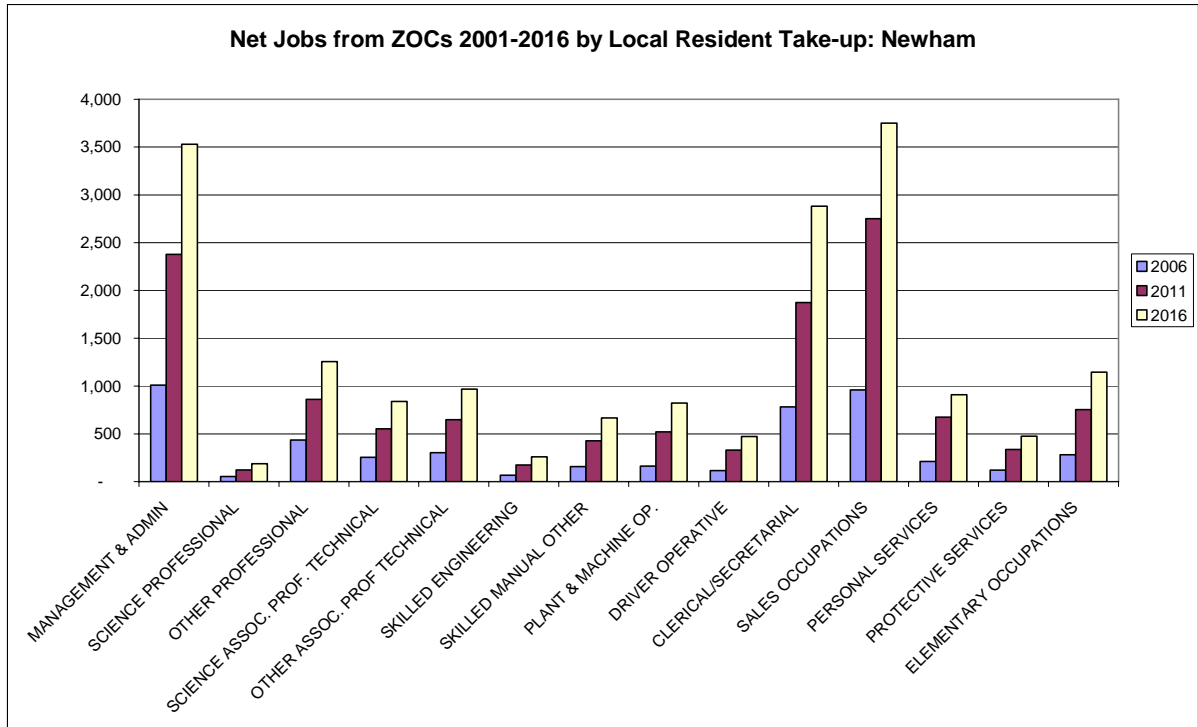
Source: Skills Impact Model (Apr-Jun 2003)

Chart 17



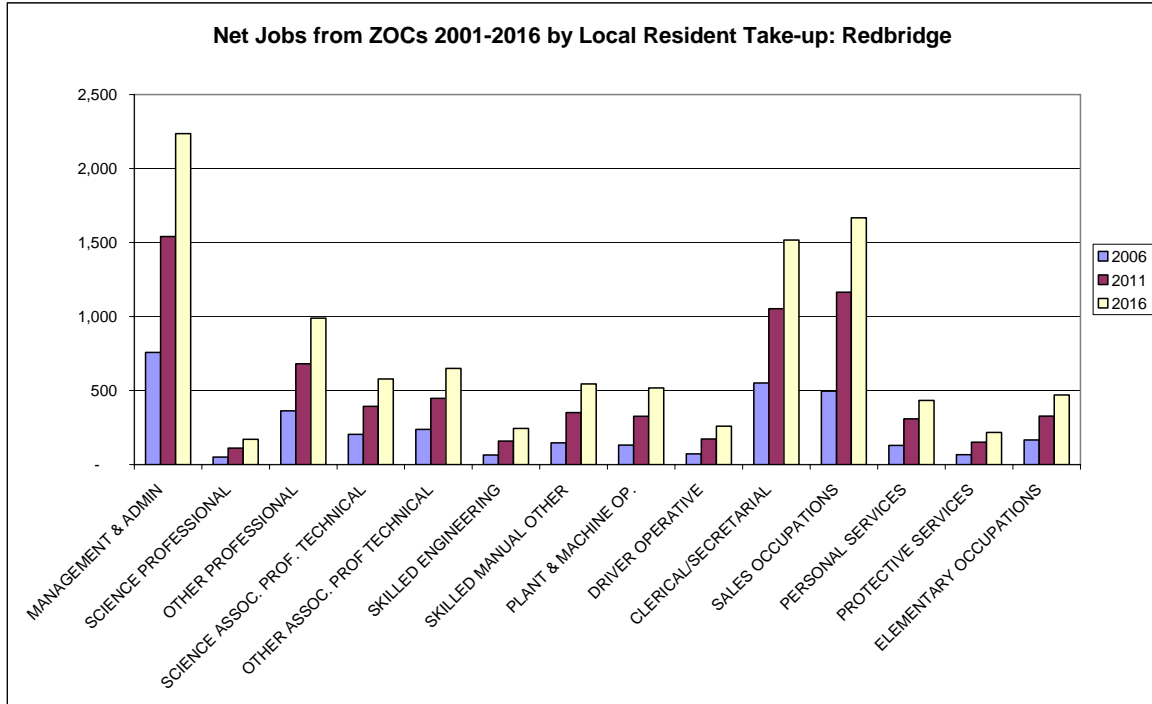
Source: Skills Impact Model (Apr-Jun 2003)

Chart 18



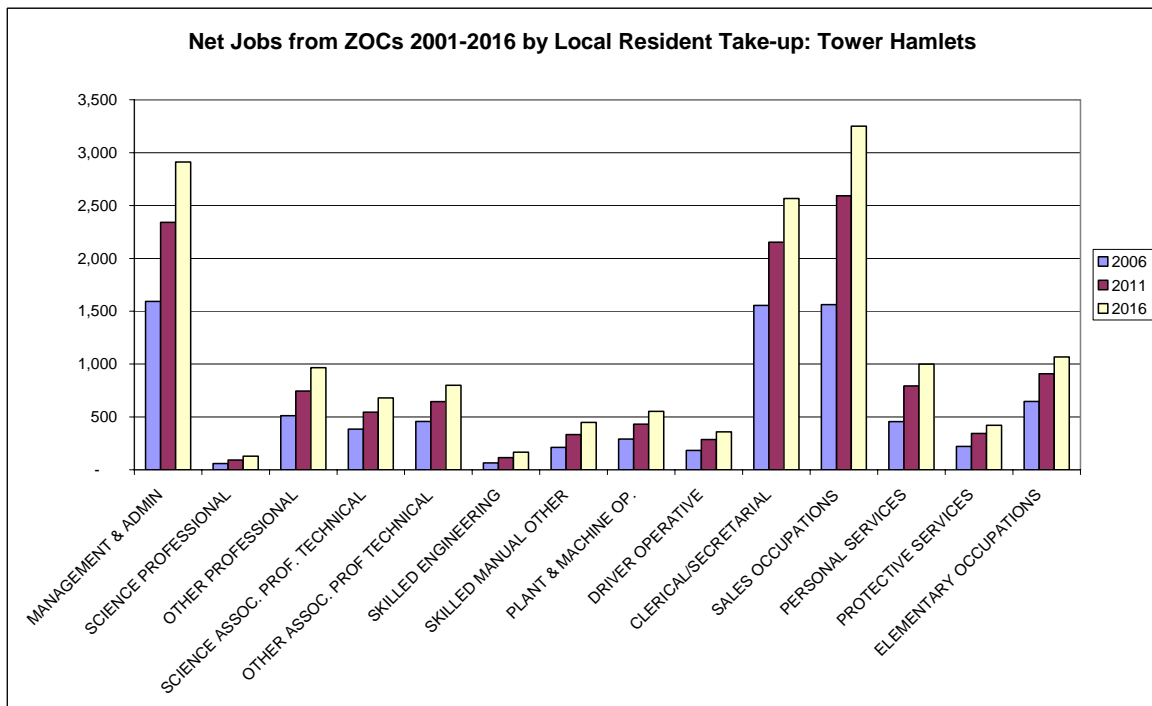
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 19**



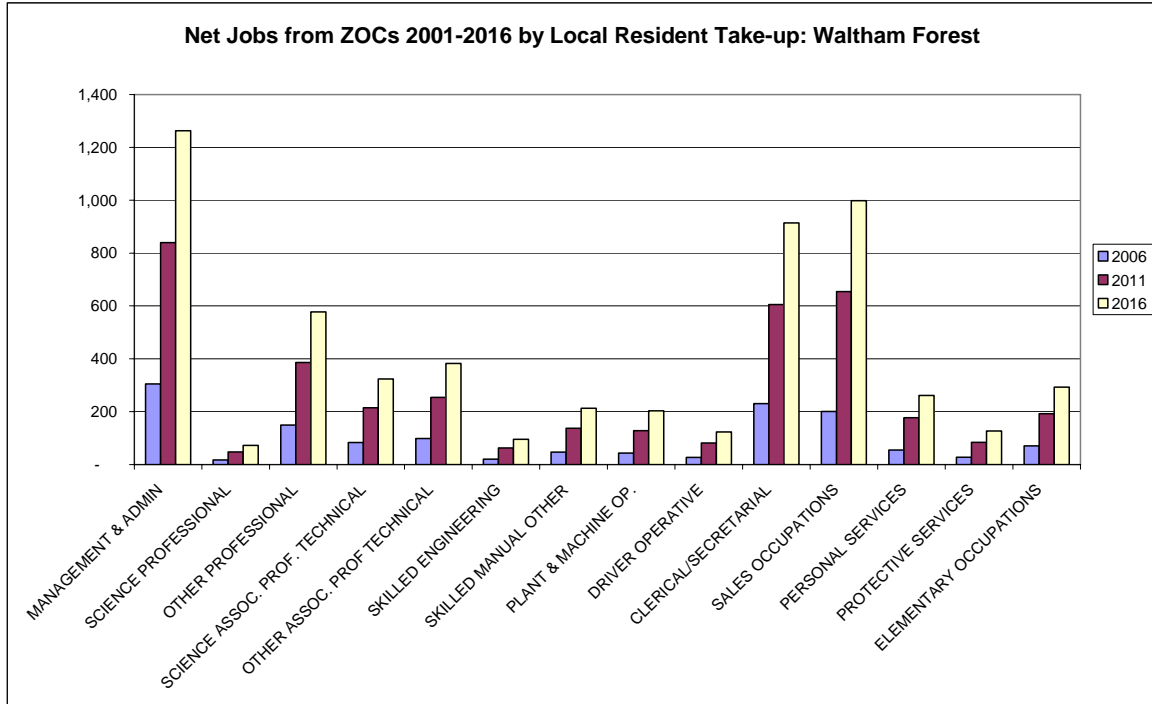
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 20**



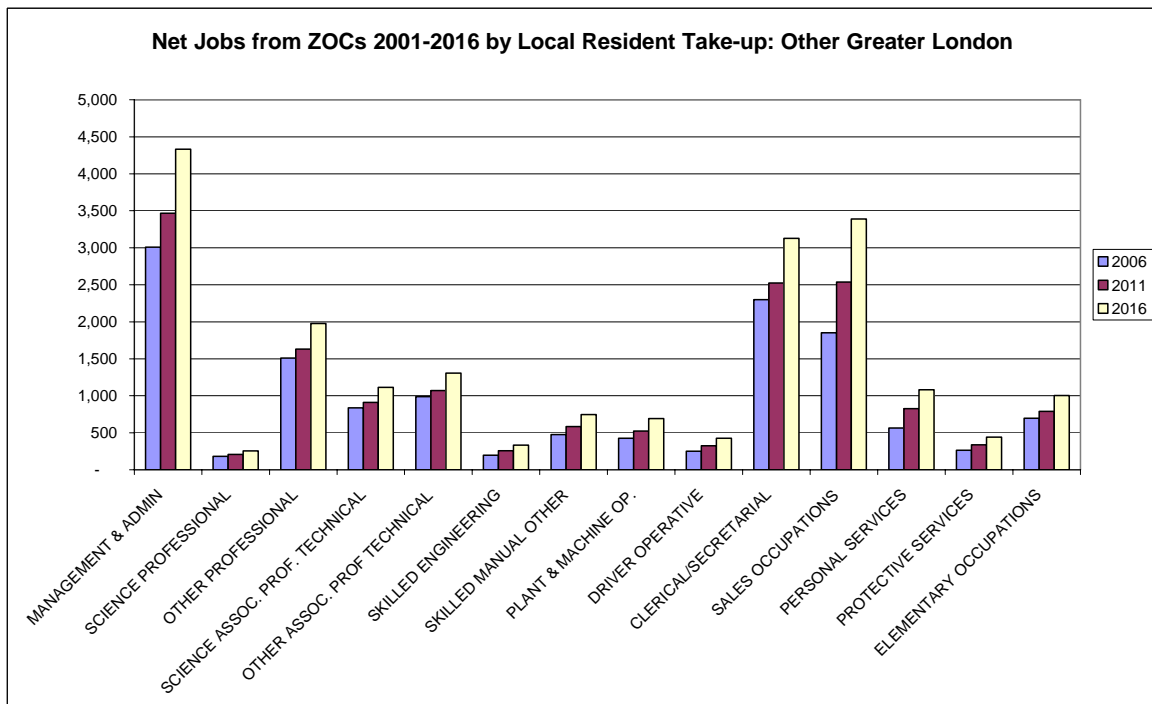
Source: Skills Impact Model (Apr-Jun 2003)

Chart 21



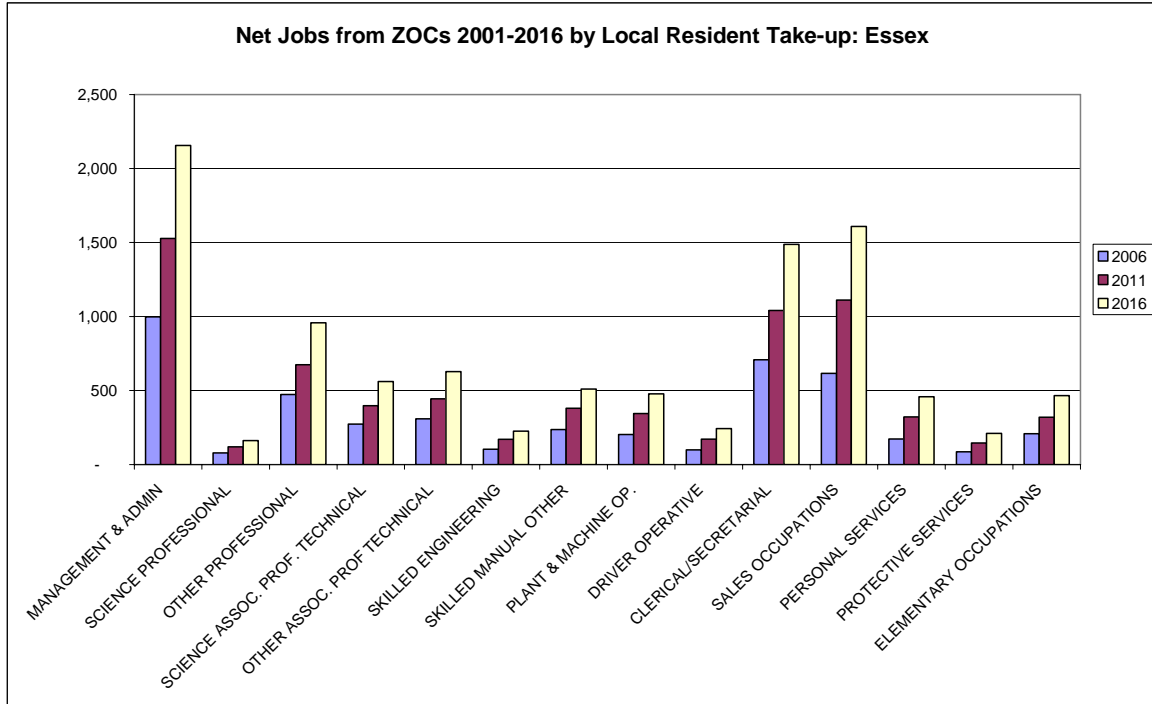
Source: Skills Impact Model (Apr-Jun 2003)

Chart 22



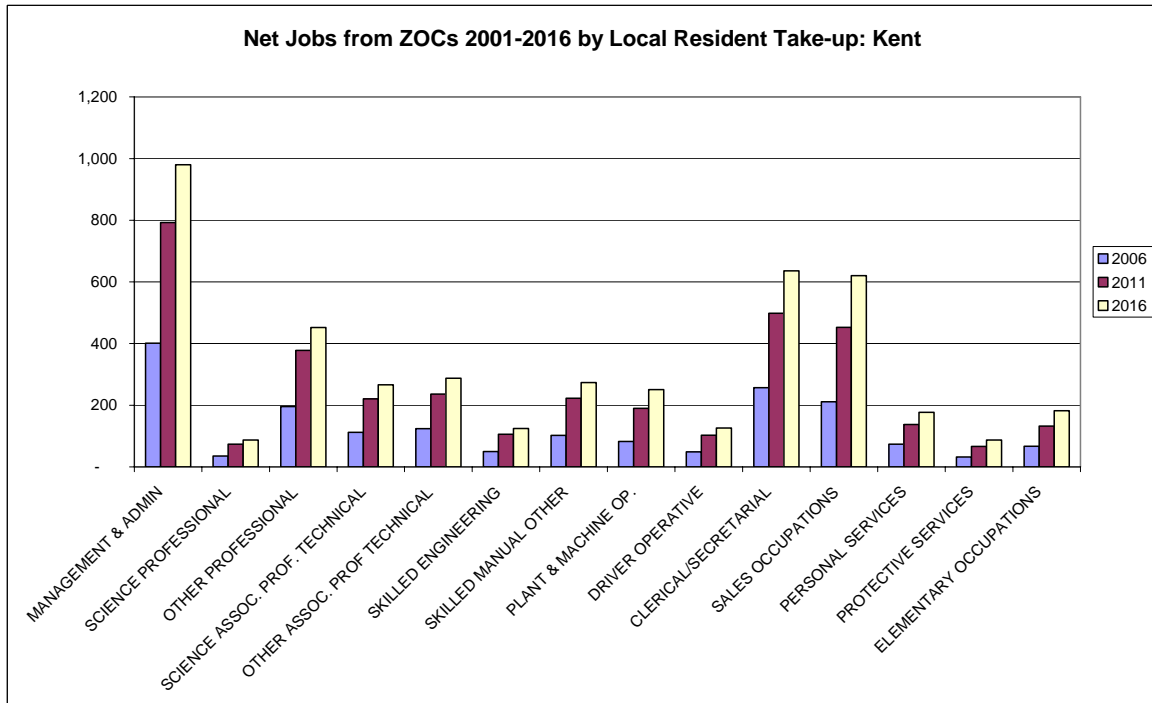
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 23**



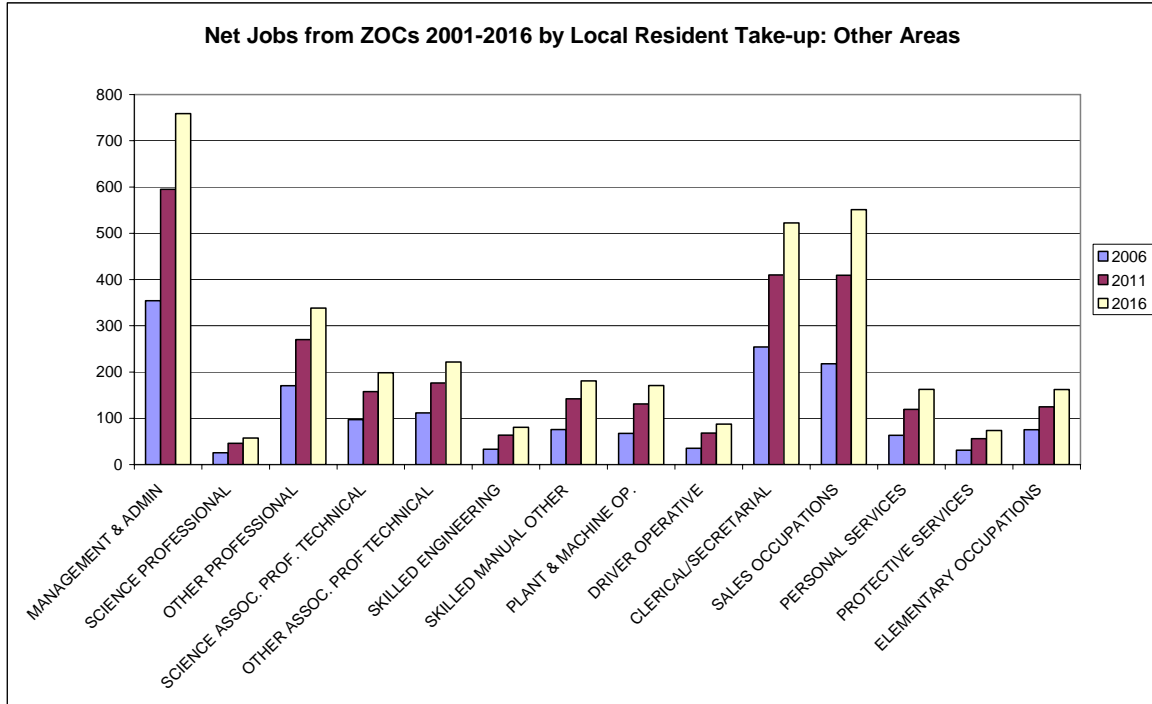
Source: Skills Impact Model (Apr-Jun 2003)

**Chart 24**



Source: Skills Impact Model (Apr-Jun 2003)

Chart 25



Source: Skills Impact Model (Apr-Jun 2003)