

**Innovation Systems Research Network  
City-Region Profile, 2006**

# London

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## Summary and Highlights

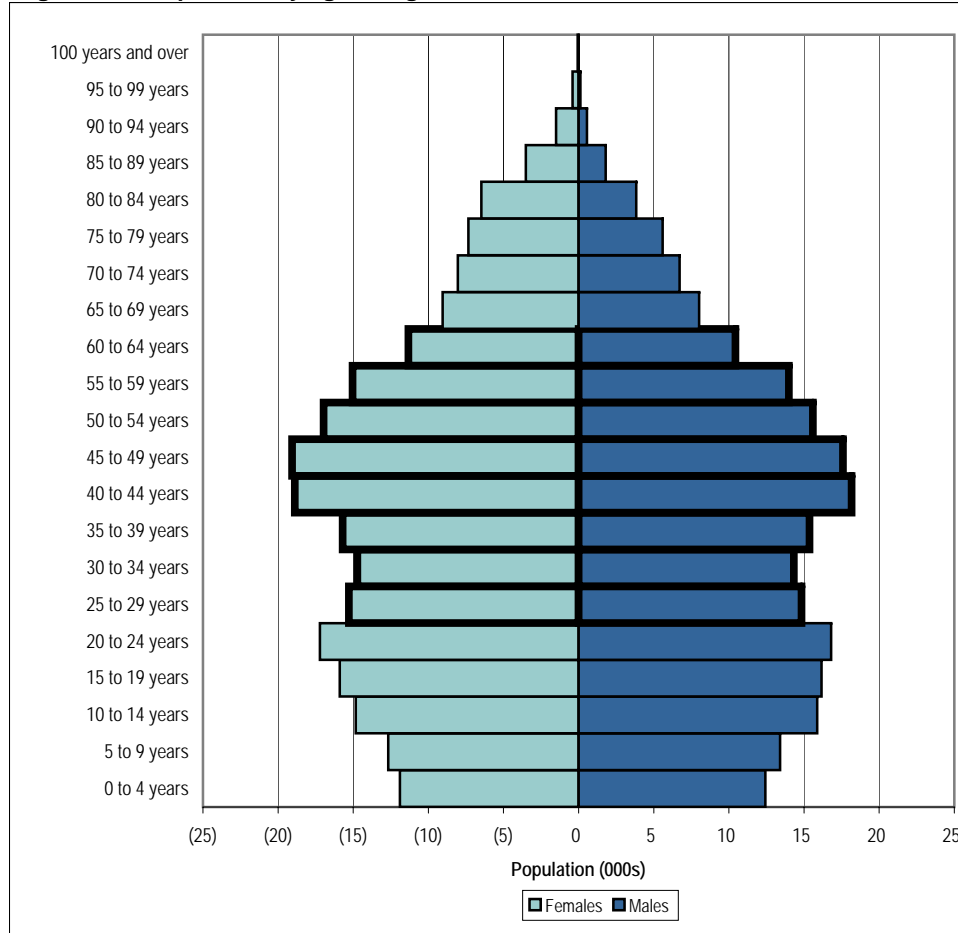
<b>Key Indicators</b>	<b>London</b>	<b>Canada</b>
Population, 2006	457,705	31,612,890
Population Change, 2001-2006	5.1%	5.4%
% Foreign Born	19.3%	19.8%
% BA Degree or higher	18.3%	18.1%
# Employed	234,950	15,958,195
Employment Growth 1996-2006	17.3%	19.8%
Employment Rate	63.4%	62.4%
Unemployment Rate	6.1%	6.6%
% 'Creative' occupations	33.2%	33.2%
% Science & Tech. Occupations	5.7%	6.6%
'Bohemians' per 1,000 Labour Force	11.3	14.2
Number of Industrial Clusters	4	255
% Employment in Clusters	10.9%	22.1%
Average FT Employment Income	\$ 50,868	\$ 51,221
% Change Average Income 2000-2005	3.4%	5.5%

# 1 - Demographics London

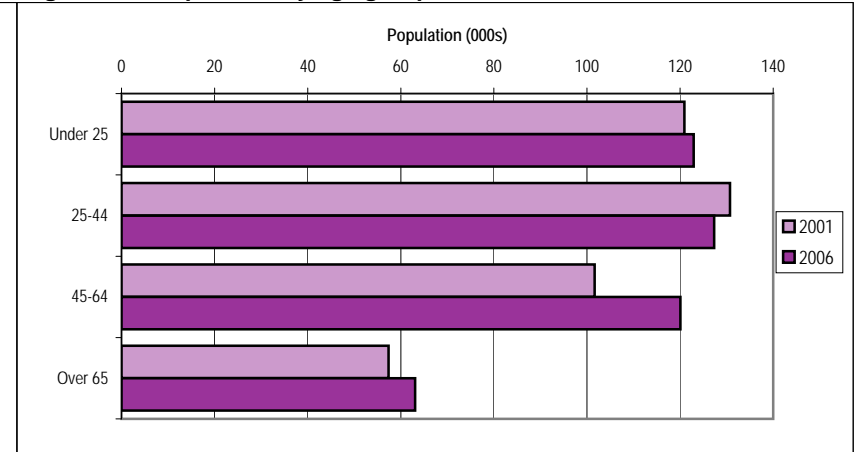
Population	2001	2006	% Change 2001-2006
<b>London</b>	435,605	457,705	5.1%
<b>Canada</b>	30,007,085	31,612,890	5.4%

Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
<b>London</b>	122,905	247,395	63,075	57.1%
<b>Canada</b>	9,800,715	17,476,925	4,335,250	55.3%

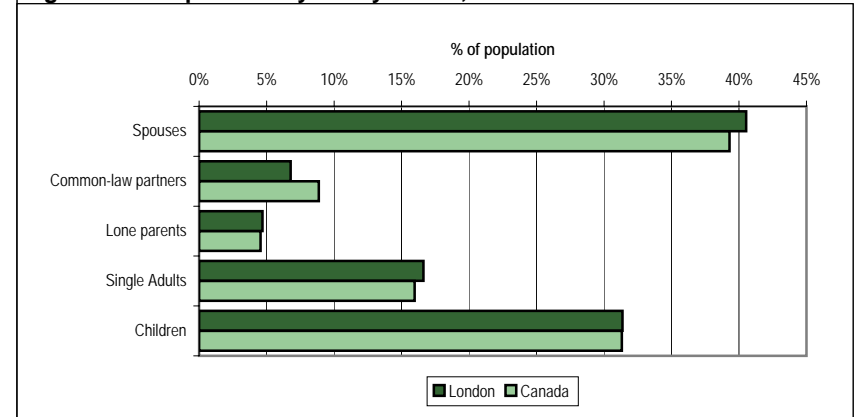
**Figure 1.1 - Population by age and gender, 2006**



**Figure 1.2 - Population by age group, 2001-2006**



**Figure 1.3 - Population by family status, 2006**



## 2 - Migration & Population Change

## London

Domestic Migration	Intra-provincial	Inter-provincial	Total
<b>In-flows, 2001-2006</b>	35,300	6,210	41,510
<b>Out-flows, 2001-2006</b>	33,885	7,695	41,580
<b>Net, 2001-2006</b>	1,415	(1,485)	(70)

	% Foreign born	Migrated post-1991	Migrated pre-1991
<b>London</b>	19.3%	6.8%	12.5%
<b>Canada</b>	19.8%	8.9%	10.9%

Figure 2.1 - Domestic migration flows between 2001 and 2006 by age

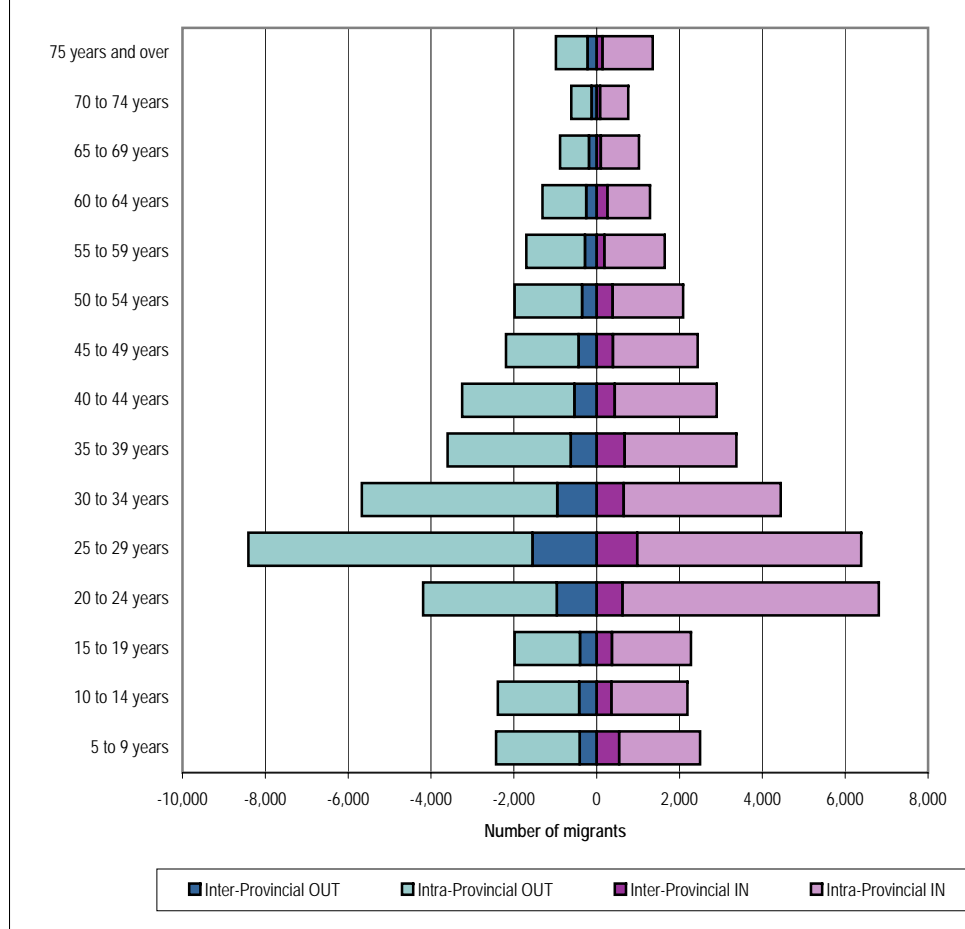


Figure 2.2 - Population by place of birth, 2006

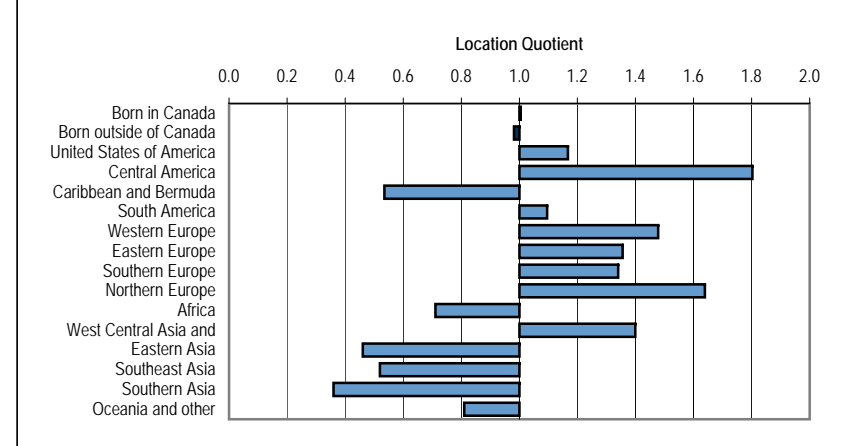
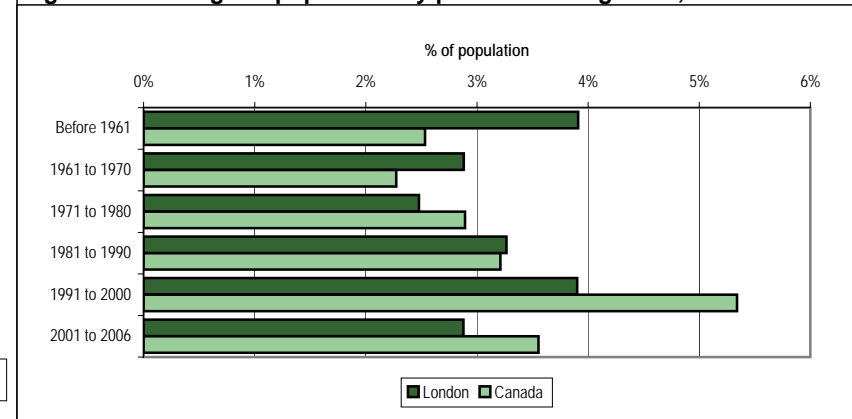


Figure 2.3 - Immigrant population by period of immigration, 2006

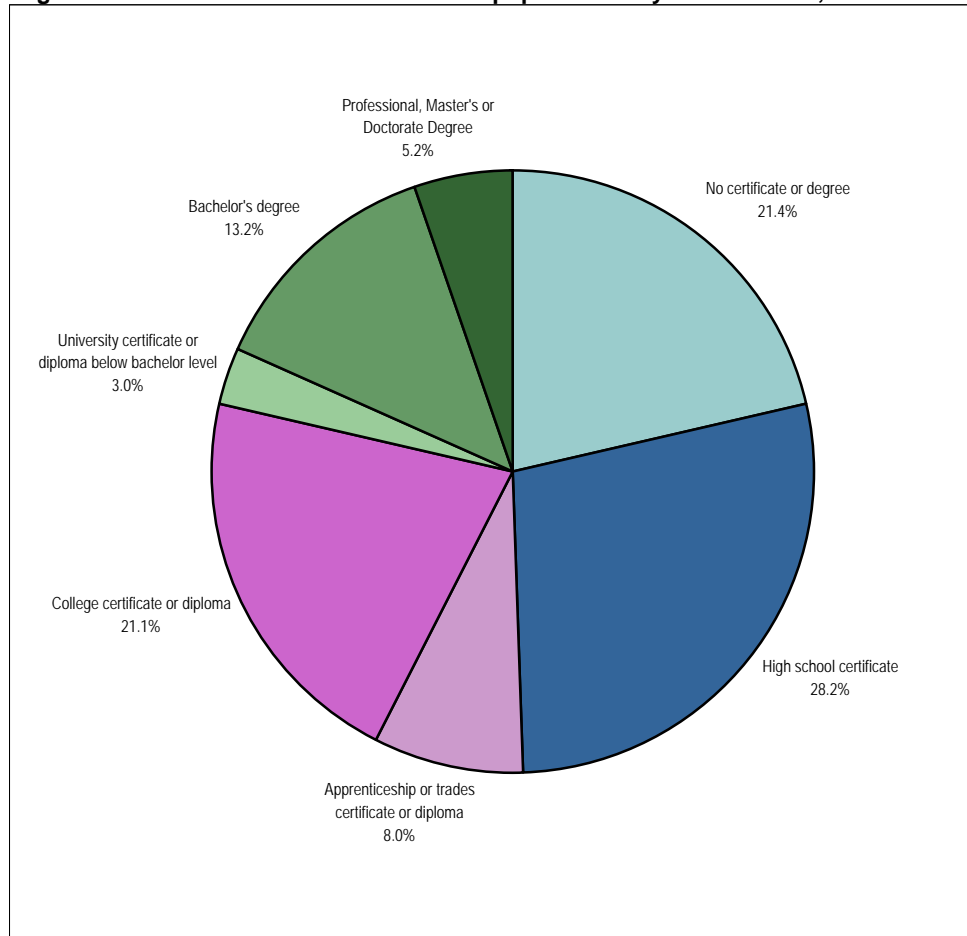


### 3 - Education London

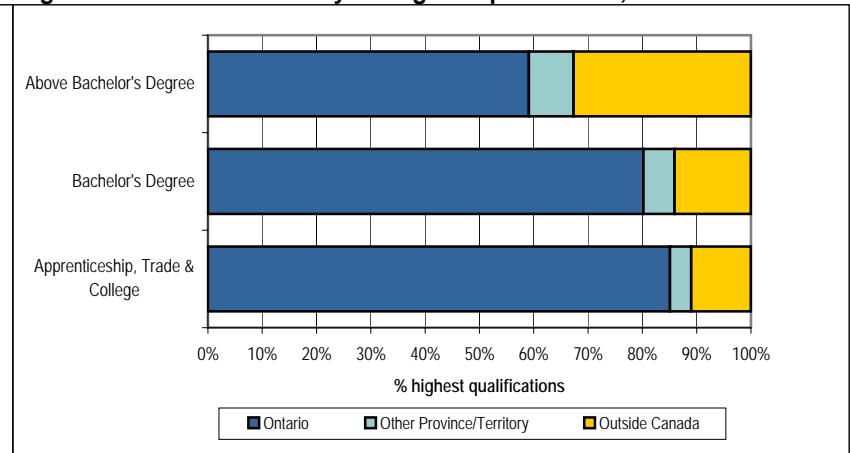
	% College degree or higher <sup>1</sup>	% BA degree or higher <sup>1</sup>	% MA degree or higher <sup>1</sup>	PhDs per 1,000 <sup>1</sup>
<b>London</b>	42.4%	18.3%	5.2%	10.5
<b>Canada</b>	39.8%	18.1%	4.6%	6.9

	% BA degree or higher	
	2001	2006
<b>London</b>	16.1%	18.3%
<b>Canada</b>	15.4%	18.1%

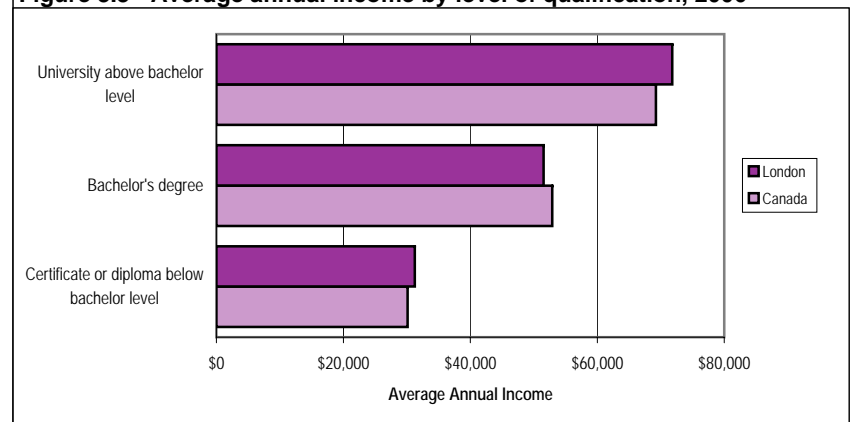
**Figure 3.1 - Educational attainment for the population 15 years and over, 2006**



**Figure 3.2 - Location of study for highest qualification, 2006**



**Figure 3.3 - Average annual income by level of qualification, 2006**

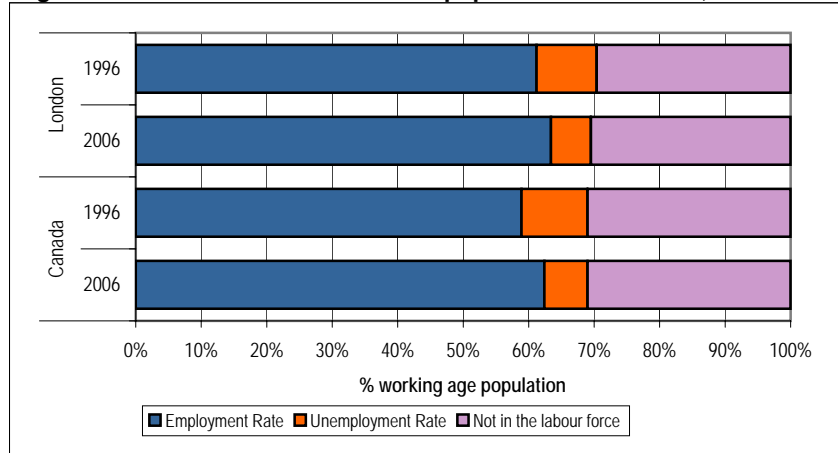


# 4 - Employment London

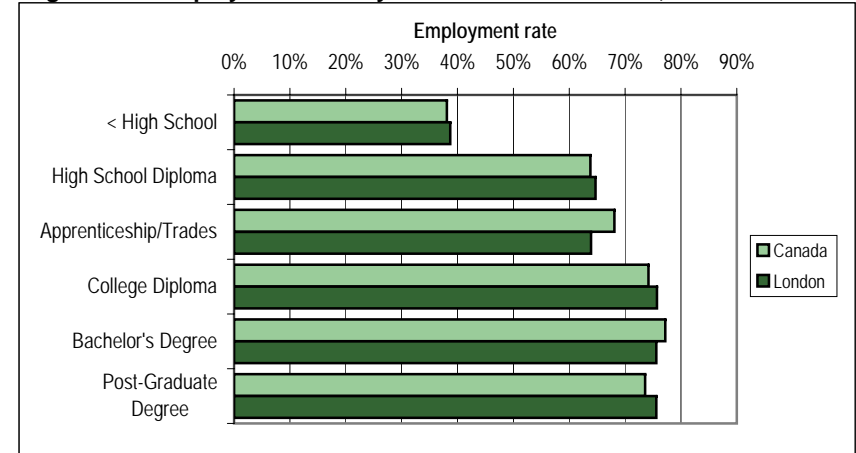
	Employment Rate		
	1996	2001	2006
<b>London</b>	61.2%	62.9%	63.4%
<b>Canada</b>	58.9%	61.5%	62.4%

	Unemployment Rate		
	1996	2001	2006
<b>London</b>	9.2%	6.6%	6.1%
<b>Canada</b>	10.1%	7.4%	6.6%

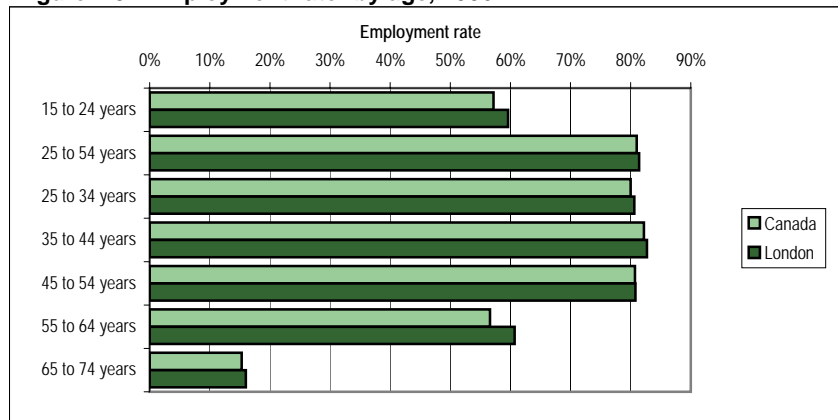
**Figure 4.1 - Labour force status of the population 15 and over, 1996 & 2006**



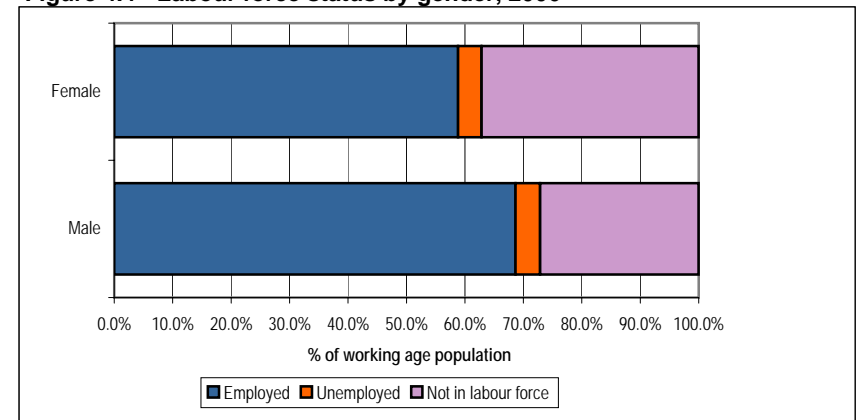
**Figure 4.2 - Employment Rate by Educational Attainment, 2006**



**Figure 4.3 - Employment rate<sup>2</sup> by age, 2006**



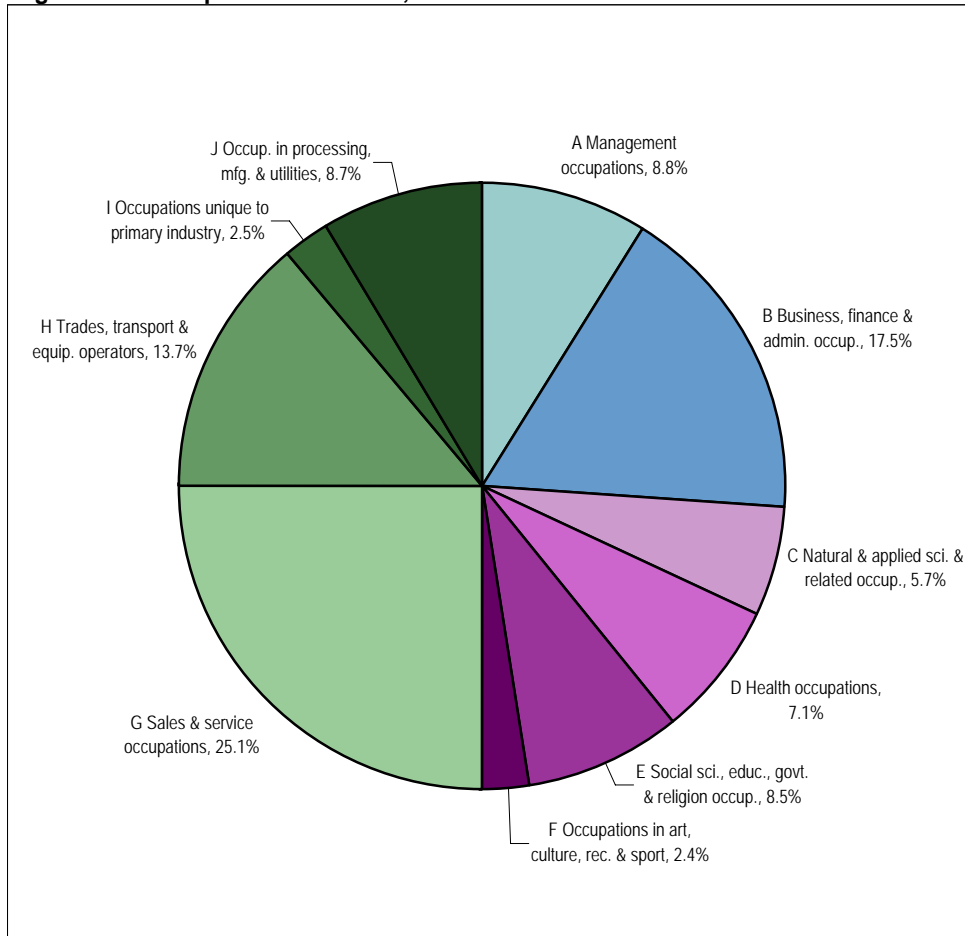
**Figure 4.4 - Labour force status by gender, 2006**



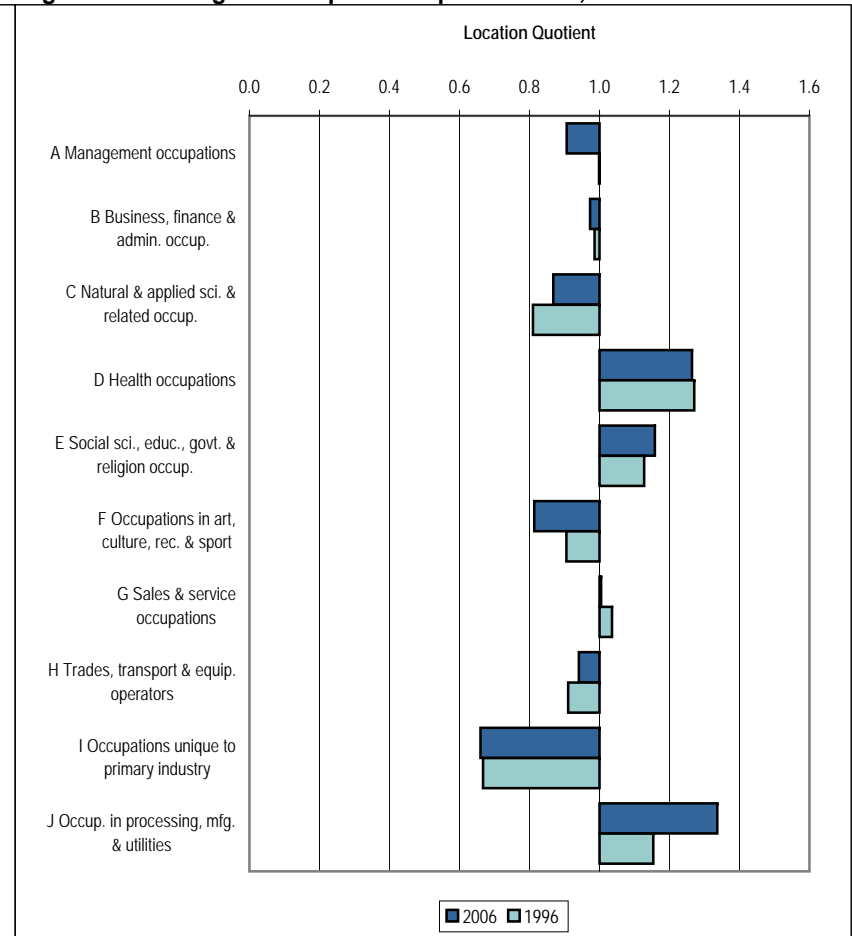
# 5 - Occupational Structure London

	A-B Management, business & finance occupations			C-F Natural/social science, health, education & artistic occupations			G-J Sales/service, trades & manual labour occupations		
	1996	2001	2006	1996	2001	2006	1996	2001	2006
<b>London</b>	27.5%	27.3%	26.2%	20.8%	22.1%	23.8%	51.7%	50.6%	50.0%
<b>Canada</b>	27.8%	28.2%	27.6%	19.8%	21.3%	22.6%	52.4%	50.5%	49.8%

**Figure 5.1 - Occupational structure, 2006**



**Figure 5.2 - Change in occupational specialization, 1996-2006**

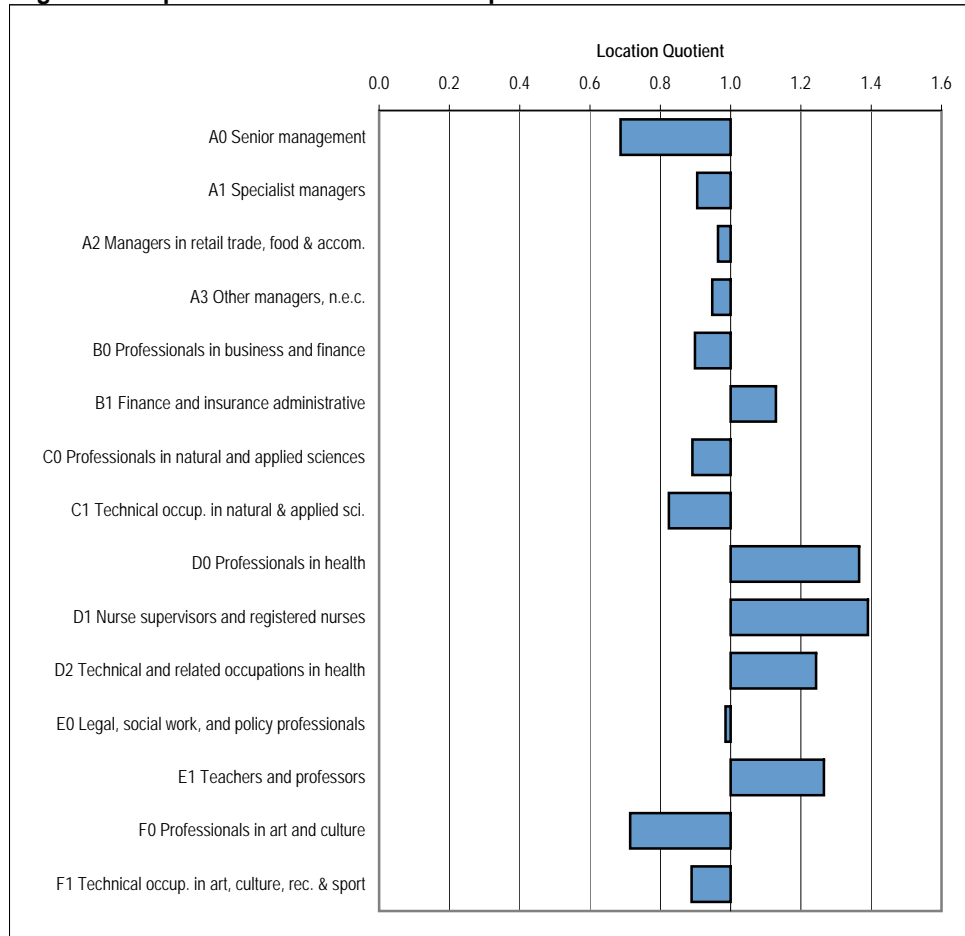


## 6 - Creative Occupations London

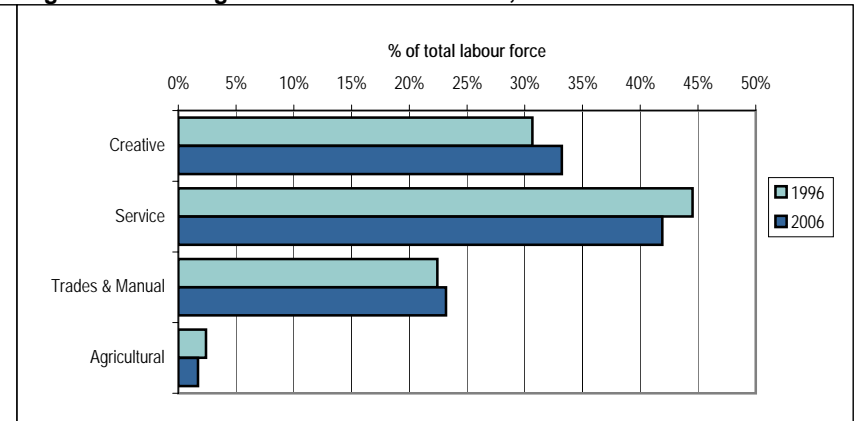
	Bohemians	Bohemians per 1000 <sup>5</sup>	S&T Workers	% S&T Workers <sup>6</sup>
<b>London</b>	2,775	11.3	14,055	5.7%
<b>Canada</b>	240,170	14.2	1,108,050	6.6%

Occupational Groups <sup>7</sup>	Creative	Service	Trades & Manual	Agricultural & Resources
<b>London</b>	33.2%	41.9%	23.2%	1.7%
<b>Canada</b>	33.2%	41.9%	21.9%	2.9%

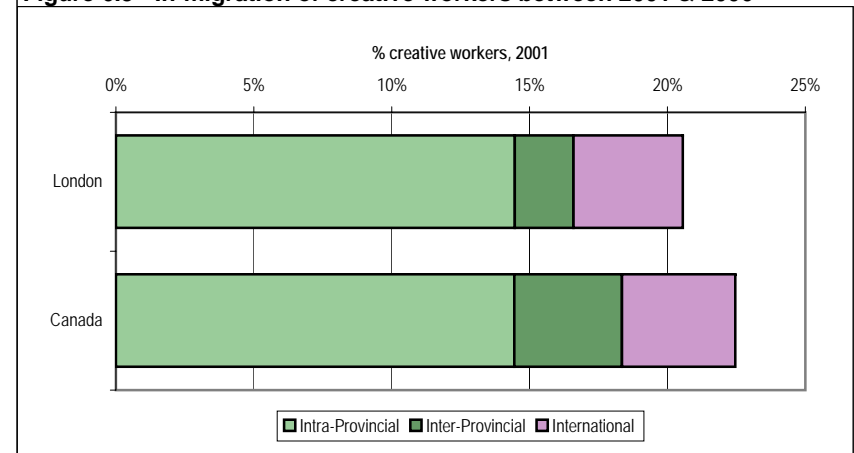
**Figure 6.1 - Specialization in creative occupations**



**Figure 6.2 - Change in share of labour force, 1996-2006**



**Figure 6.3 - In-migration of creative workers between 2001 & 2006**

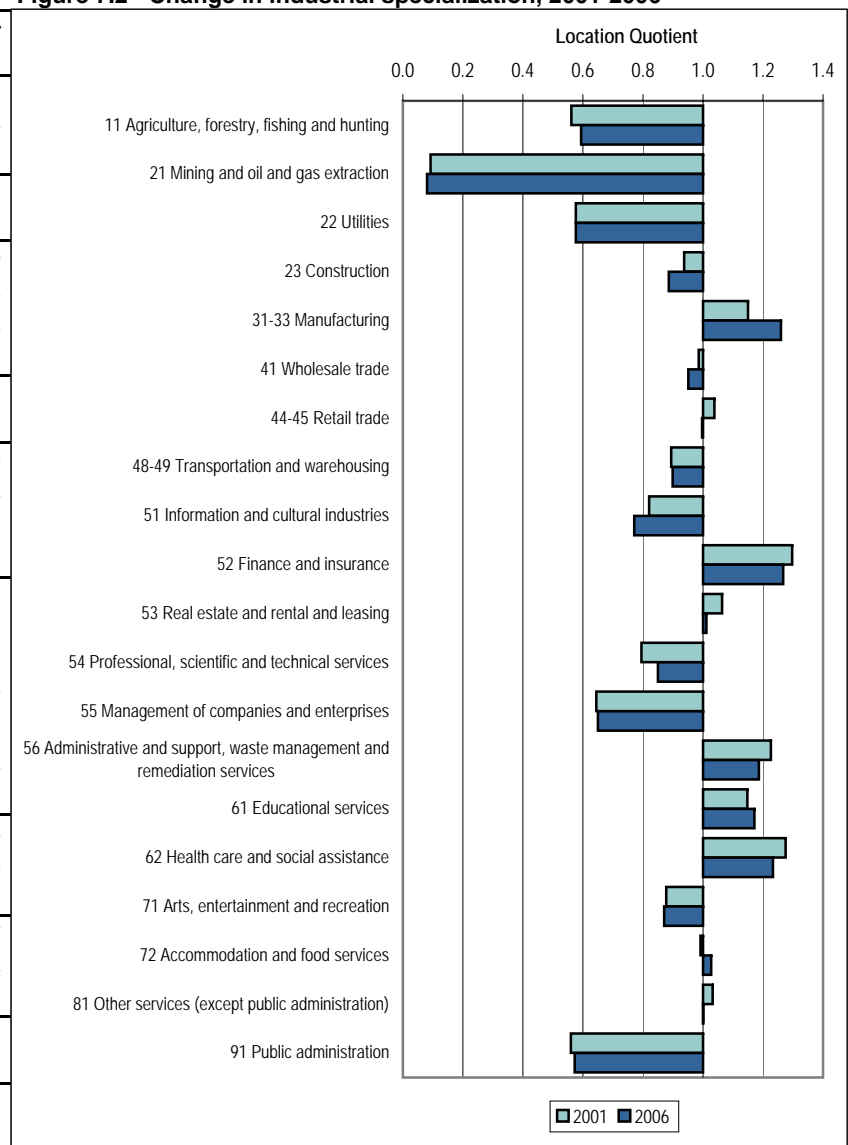


# 7 - Industrial Structure London

**Figure 7.1 - Industry characteristics**

	# Labour force	% Labour force	% Change 2001-2006	% BA or higher	Average FT income
<b>All industries</b>	<b>246,385</b>	<b>100.0%</b>	<b>7.7%</b>	<b>21.6%</b>	<b>\$ 50,868</b>
11 Agr., forestry, fish. & hunt.	4,545	1.8%	-2.9%	10.3%	\$ 27,111
21 Mining & oil/gas extraction	280	0.1%	21.7%	25.5%	\$ 59,690
22 Utilities	1,120	0.5%	11.4%	16.6%	\$ 64,283
23 Construction	13,840	5.6%	14.4%	6.3%	\$ 47,706
31-33 Manufacturing	36,920	15.0%	0.6%	11.6%	\$ 56,892
41 Wholesale trade	10,275	4.2%	3.4%	14.6%	\$ 55,089
44-45 Retail trade	27,925	11.3%	4.4%	10.7%	\$ 36,923
48-49 Transport & warehousing	10,770	4.4%	6.0%	7.4%	\$ 46,751
51 Information & cultural ind.	4,700	1.9%	-6.5%	26.1%	\$ 56,815
52 Finance and insurance	12,760	5.2%	5.4%	30.9%	\$ 57,962
53 Real estate/rental & leasing	4,485	1.8%	10.7%	14.6%	\$ 51,432
54 Prof., sci. & tech. services	13,935	5.7%	21.5%	40.9%	\$ 62,707
55 Mgmt. of companies	195	0.1%	34.5%	35.9%	N/A
56 Admin./support, & wst. mgt.	12,525	5.1%	14.9%	10.2%	\$ 33,234
61 Educational services	19,690	8.0%	14.4%	66.7%	\$ 58,874
62 Health care & soc. assist.	30,920	12.5%	9.3%	31.1%	\$ 55,946
71 Arts, entertainment & rec.	4,405	1.8%	12.5%	22.5%	\$ 33,487
72 Accom. & food services	16,915	6.9%	11.1%	7.8%	\$ 24,914
81 Other services	11,990	4.9%	5.7%	13.1%	\$ 37,081
91 Public administration	8,190	3.3%	10.2%	30.2%	\$ 61,121

**Figure 7.2 - Change in industrial specialization, 2001-2006**





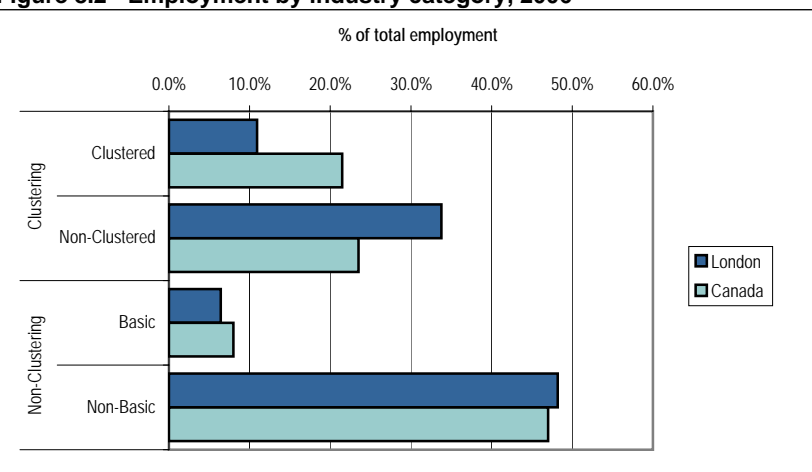
# 8 - Clusters London

Number of clusters<sup>8</sup> 4  
 % employment in clusters<sup>8</sup> 10.9%

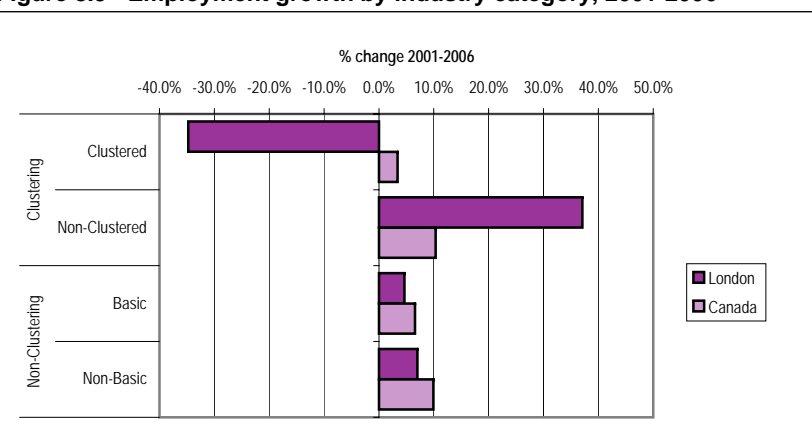
**Figure 8.1 - Cluster characteristics, 2006<sup>8</sup>**

	# Labour force	Labour force LQ	% Industry LQs > 1	% Growth 2001-2006	Cluster (yes/no)
<i>Resource-based</i>					
<b>Agriculture</b>	<b>9,645</b>	0.94	26.7%	-5.5%	NO
<b>Mining</b>	<b>1,435</b>	0.33	12.5%	13.4%	NO
<b>Oil and Gas</b>	<b>800</b>	0.22	11.1%	6.7%	NO
<b>Wood &amp; Wood Products</b>	<b>1,690</b>	0.36	10.0%	27.5%	NO
<b>Maritime</b>	<b>335</b>	0.16	0.0%	17.5%	NO
<i>Manufacturing</i>					
<b>Textiles &amp; Apparel</b>	<b>915</b>	0.46	0.0%	-24.4%	NO
<b>Food</b>	<b>7,220</b>	1.05	50.0%	-1.9%	YES
<b>Steel</b>	<b>5,280</b>	1.10	50.0%	15.5%	YES
<b>Automotive</b>	<b>16,730</b>	2.56	84.6%	7.1%	YES
<b>Plastics &amp; Rubber</b>	<b>6,200</b>	1.06	28.6%	3.9%	NO
<b>Biomedical</b>	<b>2,525</b>	1.14	50.0%	14.5%	YES
<b>ICT Manufacturing</b>	<b>2,565</b>	0.86	44.4%	15.3%	NO
<i>Service-based</i>					
<b>ICT Services</b>	<b>13,590</b>	1.16	10.0%	9.9%	NO
<b>Finance</b>	<b>17,730</b>	1.15	37.5%	4.5%	NO
<b>Business Services</b>	<b>26,720</b>	1.12	41.2%	21.9%	NO
<b>Creative &amp; Cultural</b>	<b>7,300</b>	0.78	11.8%	2.7%	NO
<b>Higher Education</b>	<b>10,955</b>	1.35	22.2%	16.7%	NO
<i>Other</i>					
<b>Construction</b>	<b>17,135</b>	0.84	0.0%	15.4%	NO
<b>Logistics</b>	<b>10,705</b>	0.89	34.6%	4.4%	NO

**Figure 8.2 - Employment by industry category, 2006<sup>9</sup>**



**Figure 8.3 - Employment growth by industry category, 2001-2006<sup>9,10</sup>**

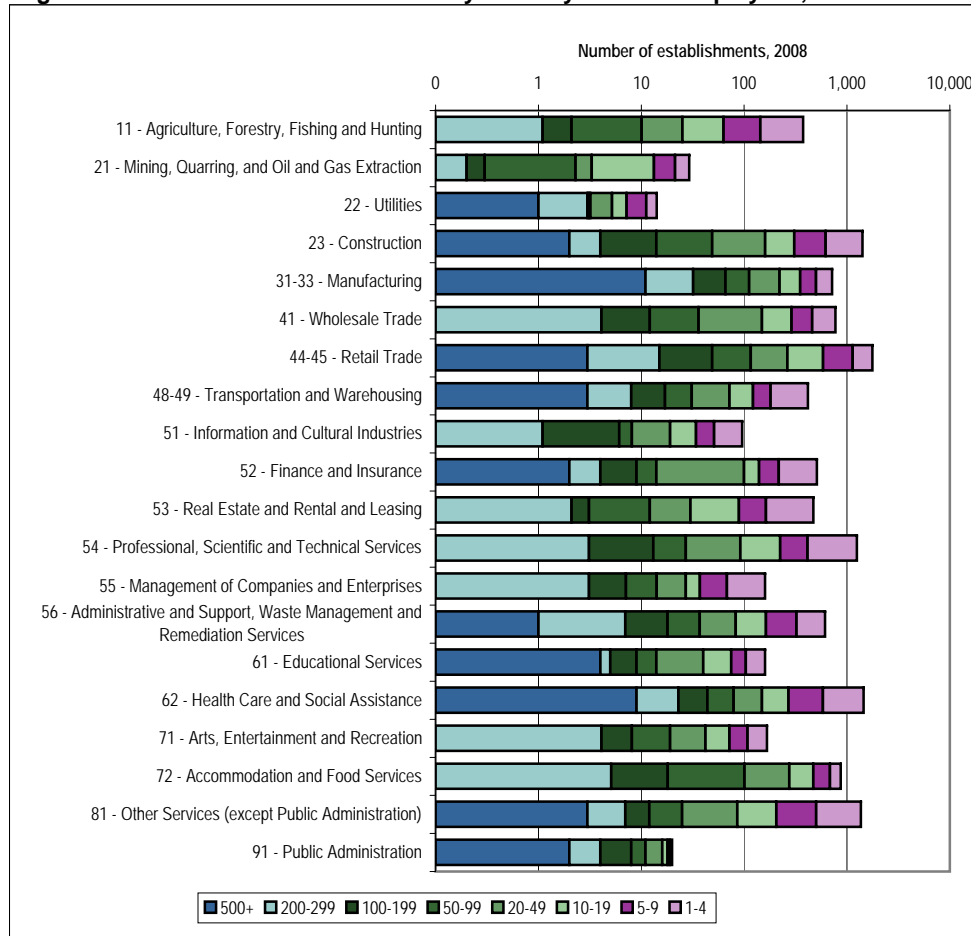


# 9 - Establishments

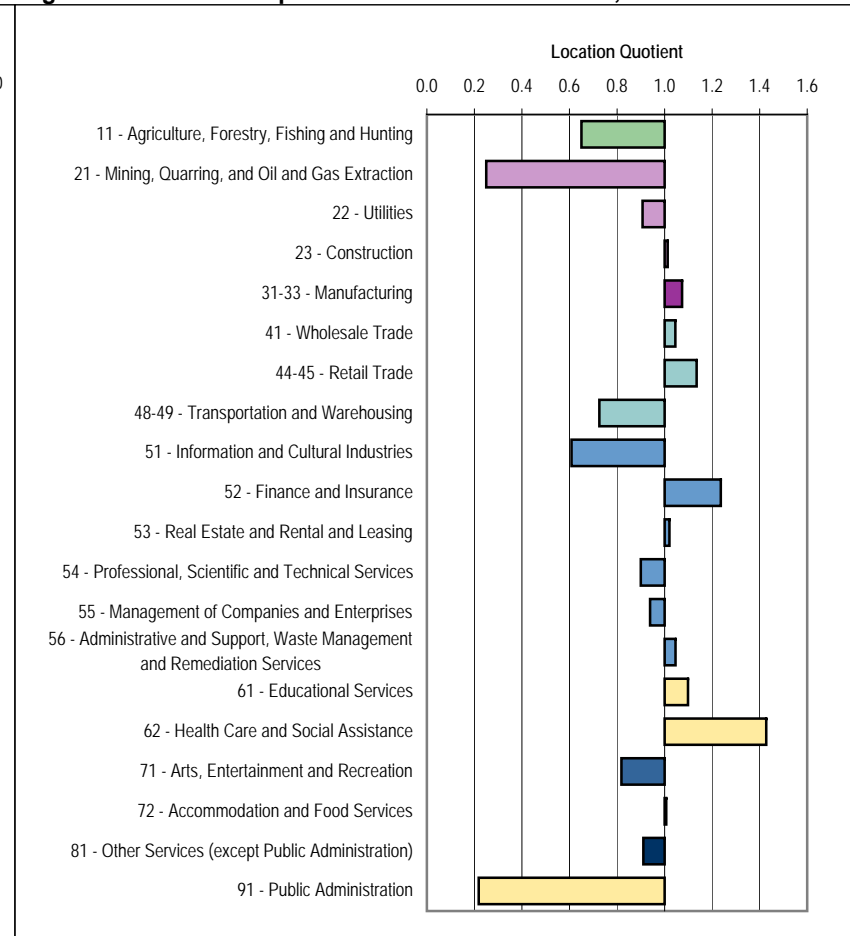
# London

	% of establishments by number of employees							
	1-4	5-9	10-19	20-49	50-99	100-199	200-299	500+
<b>London</b>	50.2%	21.9%	13.3%	9.0%	3.2%	1.4%	0.7%	0.3%
<b>Canada</b>	55.0%	20.2%	12.1%	7.8%	2.7%	1.2%	0.6%	0.3%

**Figure 9.1 - Number of establishments by industry and # of employees, 2008**



**Figure 9.2 - Industrial specialization - Establishments, 2008**



# 10 - Income London

Full Time Employment Income, 2005			
		Average	Median
London	\$	50,868	\$ 42,746
Canada	\$	51,221	\$ 41,401

% Change in FT Emp. Income 2000-2005 <sup>11</sup>		
	Average	Median
London	3.4%	0.4%
Canada	5.5%	2.4%

\*Constant dollars (2005)

Figure 10.1 - Distribution of FT Employment Income

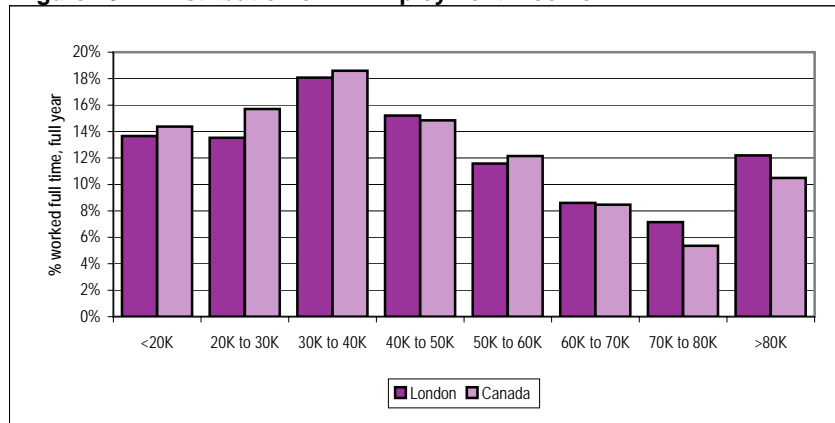
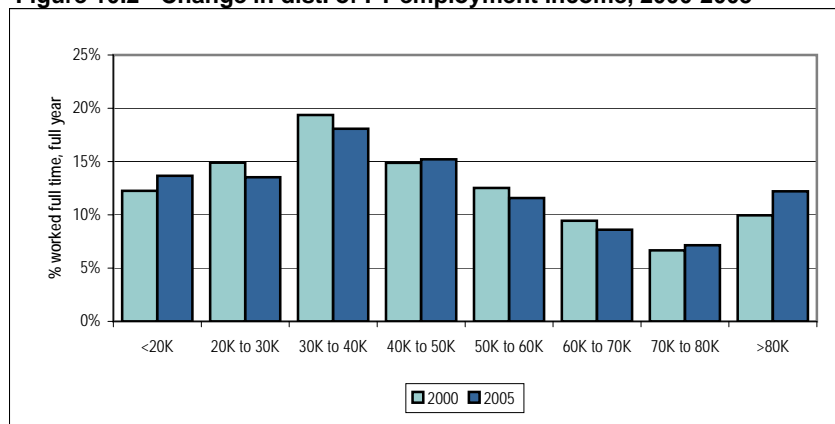
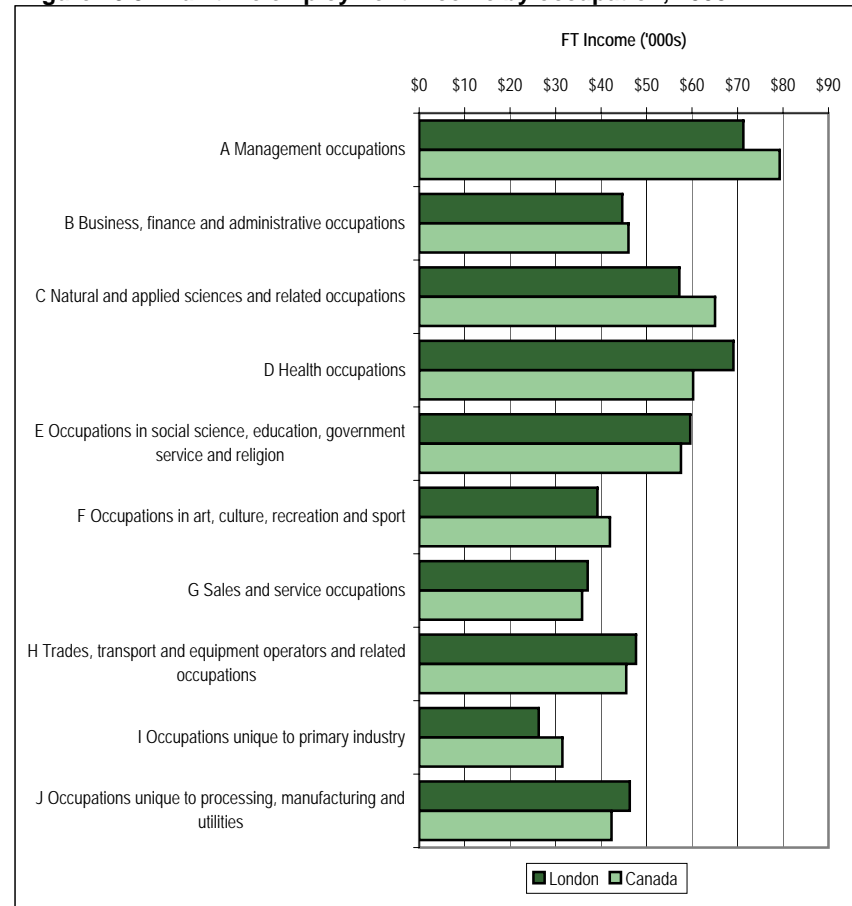


Figure 10.2 - Change in dist. of FT employment income, 2000-2005



\*Constant dollars (2005)

Figure 10.3 - Full time employment income by occupation, 2005



## Notes

<sup>1</sup> All educational attainment statistics are calculated for the population 15 years and over.

<sup>2</sup> The employment rate refers to the number of persons employed expressed as a percentage of the total population 15 years of age and over (excluding institutional residents).

<sup>3</sup> The unemployment rate refers to the number of unemployed persons expressed as a percentage of the total labour force 15 years of age and over.

<sup>4</sup> Self-employment is defined as persons 15 years of age and over for whom the job reported consisted mainly of operating a business, farm or professional practice, alone or in partnership. Examples include: operating a farm; working on a freelance or contract basis to do a job (e.g. architects, private duty nurses); or operating a direct distributorship selling and delivering products (e.g. cosmetics, newspapers). Respondents were asked to specify if their business was incorporated or unincorporated, as well as if they had paid help or no paid help.

<sup>5</sup> Bohemians are defined as artistic occupations and include the following occupational categories: F021 Authors and writers; F031 Producers, directors, choreographers and related occupations; F032 Conductors, composers and arrangers; F033 Musicians and singers; F034 Dancers; F035 Actors and comedians; F036 Painters, sculptors and other visual artists; F121 Photographers; F141 Graphic designers and illustrators; F142 Interior designers; F143 Theatre, fashion, exhibit and other creative designers; F144 Artisans and craftspersons; and F145 Patternmakers, textile, leather and fur products. See Florida (2002) and Gertler et al. (2002).

<sup>6</sup> Science and technology workers include the following occupational categories: C0 Professional occupations in natural and applied sciences; and C1 Technical occupations related to natural and applied sciences. See Feinstein and McAlinden (2002).

<sup>7</sup> Following the method outlined in Florida (2002), we have divided the Canadian occupational structure into four broad categories: creative occupations; service occupations; trade and manual labour occupations; and agricultural and related occupations. These are defined using the National Occupational Classification for Statistics (NOCS) at the 2-digit level.

- *Creative occupations* include: A0 Senior management occupations; A1 Specialist managers; A2 Managers in retail trade, food and accommodation services; A3 Other managers, n.e.c.; B0 Professional occupations in business and finance; B1 Finance and insurance administrative occupations; C0 Professional occupations in natural and applied sciences; C1 Technical occupations related to natural and applied sciences; D0 Professional occupations in health; D1 Nurse supervisors and registered nurses; D2 Technical and related occupations in health; E0 Judges, lawyers, psychologists, social workers, ministers of religion, and policy and program officers; E1 Teachers and professors; F0 Professional occupations in art and culture; and F1 Technical occupations in art, culture, recreation and sport.

- *Service occupations* include: B2 Secretaries; B3 Administrative and regulatory occupations; B4 Clerical supervisors; B5 Clerical occupations; D3 Assisting occupations in support of health services; E2 Paralegals, social services workers and occupations in education and religion, n.e.c.; and G Sales and Service Occupations.

- *Trades and manual labour occupations* include: H Trades, Transport and Equipment Operators and Related Occupations; I2 Primary production labourers; and J Occupations Unique to Processing, Manufacturing and Utilities.

- *Agriculture and related occupations* include: I0 Occupations unique to agriculture, excluding labourers; and I1 Occupations unique to forestry operations, mining, oil and gas extraction and fishing, excluding labourers.

<sup>8</sup> The method for identifying and defining cluster is based on previous ISRN work (see Spencer and Vinodrai 2005). Clusters are defined as constellations of industries defined using the North American Industrial Classification Systems (NAICS) at the 4-digit level based on patterns of location and co-location within the Canadian space economy. Constellations of industries must meet three criteria within a particular place to be defined as a cluster: 1) there must be 1,000 or more employees; 2) the overall employment LQ must be greater than or equal to 1; and 3) at least half of the industries that comprise a particular cluster in a particular place must have an individual employment LQ greater than or equal to 1.

<sup>9</sup> The method for identifying and defining cluster is based on previous ISRN work (see Spencer, Vinodrai, Gertler and Wolfe 2010). We divide industries and employment into four categories: Non-basic, basic, non-clustered, and clustered. Non-Basic industries are those industries which do not demonstrate a pattern of geographic concentration in particular places. Basic industries are those industries which are geographically concentrated in particular places but do not exhibit patterns of systematic co-location with other industries. The remaining industries have the potential to cluster but do not always do so. Therefore, non-clustered employment is in those industries which do co-locate with other industries, but do not exhibit cluster characteristics in a particular location (see above). Clustered employment is that employment in industries which co-locate with other industries and exhibit cluster characteristics (see above).

<sup>10</sup> Growth is calculated as % change in total employment between 2001 and 2006.

<sup>11</sup> Canadian censuses were conducted in 2001 and 2006. Income data relate to the calendar year prior to the census year, i.e. 1995 and 2000 respectively.

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