Innovation Systems Research Network City-Region Profile, 2006

St. John's

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Summary and Highlights

Key Indicators	St. John's	Canada			
Population, 2006	181,115	31,612,890			
Population Change, 2001-2006	4.7%	5.4%			
% Foreign Born	2.9%	19.8%			
% BA Degree or higher	18.8%	18.1%			
# Employed	87,890	15,958,195			
Employment Growth 1996-2006	17.3%	19.8%			
Employment Rate	58.7%	62.4%			
Unemployment Rate	10.0%	6.6%			
% 'Creative' occupations	38.6%	33.2%			
% Science & Tech. Occupations	8.0%	6.6%			
'Bohemians' per 1,000 Labour Force	11.3	14.2			
Number of Industrial Clusters	5	255			
% Employment in Clusters	19.9%	22.1%			
Average FT Employment Income	\$ 48,392	\$ 51,221			
% Change Average Income 2000-2005	7.4%	5.5%			

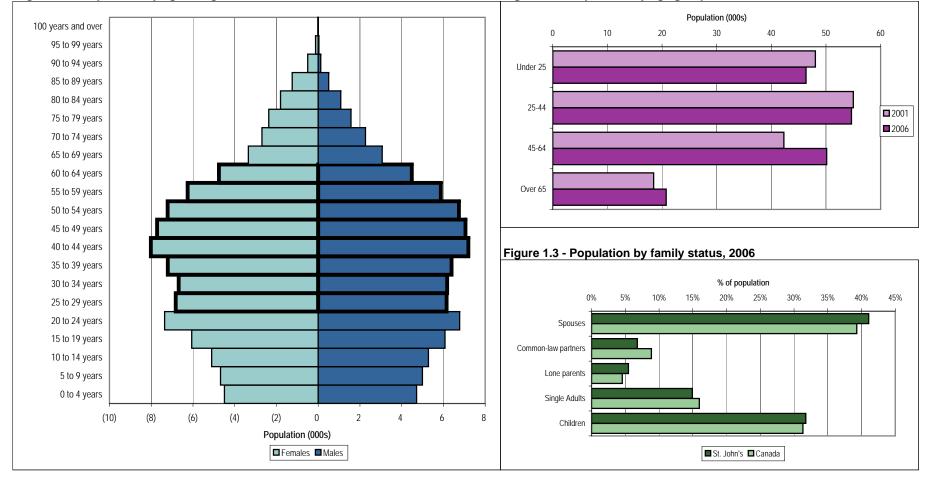
1 - Demographics

Population	2001	2006	% Change 2001-2006
St. John's	172,915	181,115	4.7%
Canada	30,007,085	31,612,890	5.4%

Figure 1.1 - Population by age and gender, 2006

Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
St. John's	46,360	104,790	20,760	61.0%
Canada	9,800,715	17,476,925	4,335,250	55.3%

Figure 1.2 - Population by age group, 2001-2006



St. John's

Migrated pre-

1991

1.8%

10.9%

St. John's

2 - Migration & Population Change

Domestic Migration	Intra- provincial	Inter- provincial	Total
In-flows, 2001-2006	7,925	9,920	17,845
Out-flows, 2001-2006	3,560	10,945	14,505
Net, 2001-2006	4,365	(1,025)	3,340



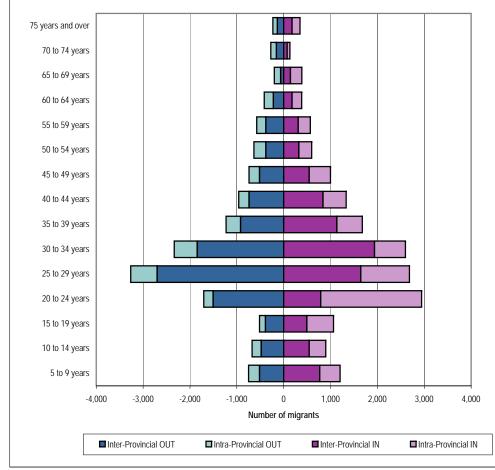


Figure 2.2 - Population by place of birth, 2006

St. John's

Canada

% Foreign

born

2.9%

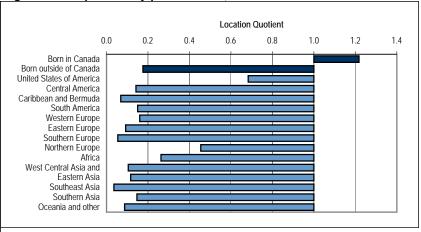
19.8%

Migrated

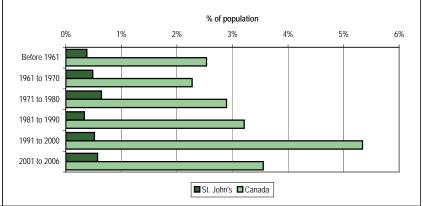
post-1991

1.1%

8.9%



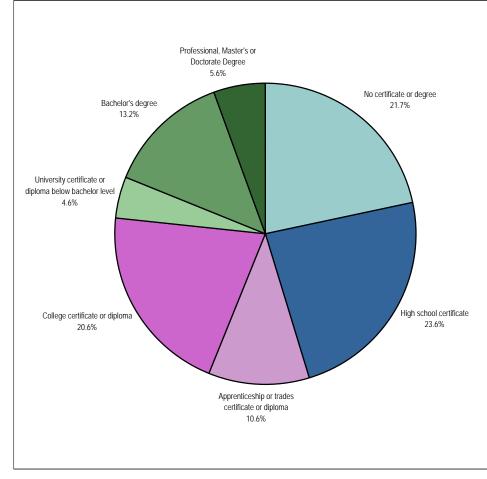




3 - Education

	% College degree or higher ¹	% BA degree or higher ¹	% MA degree or higher ¹	PhDs per 1,000 ¹
St. John's	44.0%	18.8%	5.6%	8.1
Canada	39.8%	18.1%	4.6%	6.9

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



% BA degree or higher 2001 2006 St. John's 16.7% 18.8% Canada 15.4% 18.1%

Figure 3.2 - Location of study for highest qualification, 2006

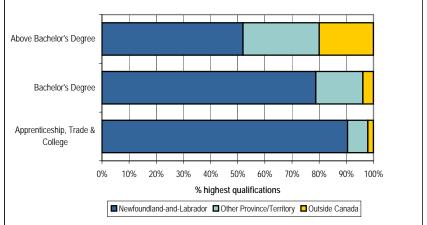
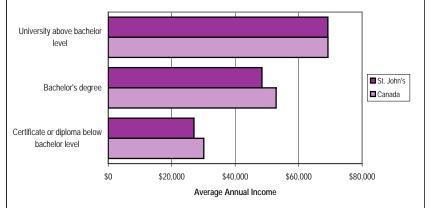


Figure 3.3 - Average annual income by level of qualification, 2006



4 - Employment

—	Employment Rate					
	1996	2001	2006			
St. John's	54.4%	57.0%	58.7%			
Canada	58.9%	61.5%	62.4%			

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

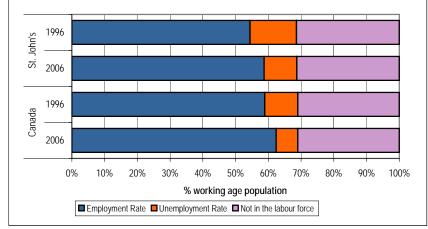
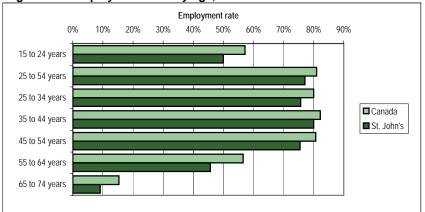
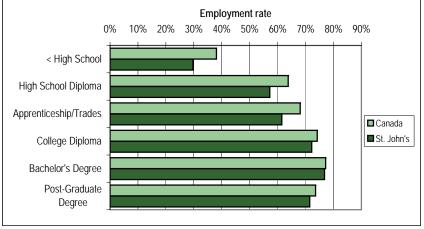


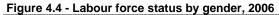
Figure 4.3 - Employment rate² by age, 2006

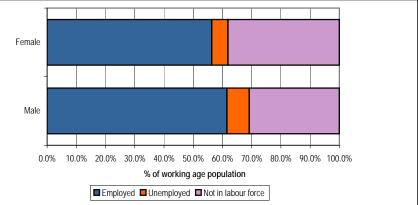


	Unemployment Rate						
	1996	2001	2006				
St. John's	14.2%	11.3%	10.0%				
Canada	10.1%	7.4%	6.6%				

Figure 4.2 - Employment Rate by Educational Attainment, 2006





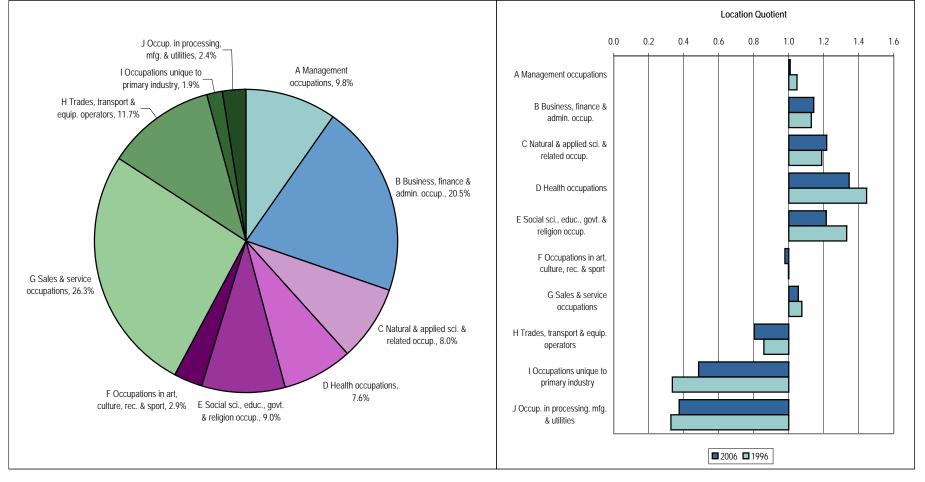


5 - Occupational Structure

	A-B Management, business & finance occupations			al/social scien n & artistic oc	, ,		service, trades		
	1996	2001	2006	1996	2001	2006	1996	2001	2006
St. John's	30.6%	30.3%	30.3%	25.3%	26.8%	27.5%	44.1%	42.9%	42.3%
Canada	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



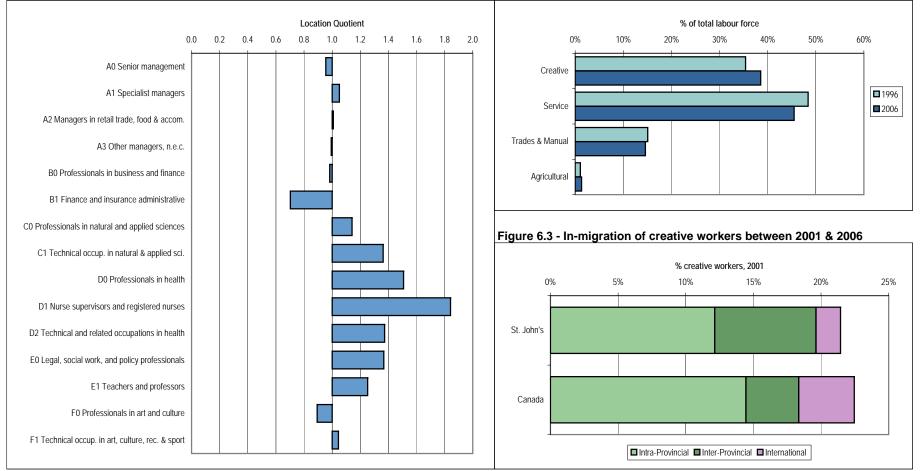
6 - Creative Occupations

	Bohemians	% S&T Workers ⁶		
St. John's	1,085	11.3	7,660	8.0%
Canada	240,170	14.2	1,108,050	6.6%

Figure 6.1 - Specialization in creative occupations

Occupational Groups ⁷	Creative	Service	Trades & Manual	Agricultural & Resources
St. John's	38.6%	45.5%	14.6%	1.3%
Canada	33.2%	41.9%	21.9%	2.9%

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



St. John's

7 - Industrial Structure

St. John's

	# Labour	% Labour	% Change	% BA or	Ave	rage FT				Locatio	n Quotient		
	force	force	2001-2006	higher	in	come	(0.0	0.5	1.0	1.5	2.0	2.5
All industries	95,735	100.0%	9.2%	23.7%	\$	48,392	11 Agriculture, forestry, fishing and hunting						
							21 Mining and oil and gas extraction						
11 Agr., forestry, fish. & hunt.	1,025	1.1%	2.5%	7.3%	\$	38,369	5 5						
04.141	0.070	0.404	70.00/	<u> </u>	<u> </u>		22 Utilities						
21 Mining & oil/gas extraction	2,270	2.4%	70.0%	29.9%	\$	89,140	23 Construction						
22 Utilities	945	1.0%	9.2%	26.1%	\$	69,876	31-33 Manufacturing						
23 Construction	5,260	5.5%	15.9%	5.9%	\$	42,578							
31-33 Manufacturing	4,355	4.5%	6.3%	13.9%	\$	49,030	41 Wholesale trade						
	4,555	4.576	0.37	13.970	φ	49,030	44-45 Retail trade						
41 Wholesale trade	3,260	3.4%	-8.8%	12.9%	\$	45,925	48-49 Transportation and warehousing						
44-45 Retail trade	12,230	12.8%	12.3%	8.8%	\$	33,320					-		
48-49 Transport & warehousing	3,985	4.2%	-0.5%	7.3%	\$	47,009	51 Information and cultural industries						
							52 Finance and insurance						
51 Information & cultural ind.	3,255	3.4%	2.2%	24.3%	\$	55,771	53 Real estate and rental and leasing						
52 Finance and insurance	2,630	2.7%	-2.2%	26.4%	\$	63,185							
53 Real estate/rental & leasing	1,610	1.7%	24.3%	17.4%	\$	38,073	54 Professional, scientific and technical services			Ľ.			
54 Prof., sci. & tech. services	5,770	6.0%	12.4%	48.6%	\$	65,590	55 Management of companies and enterprises			Ĺ.			
55 Mgmt. of companies	120	0.1%	41.2%	12.5%	N/A		56 Administrative and support, waste management and			n III			
56 Admin./support, & wst. mgt.	5,440	5.7%	67.1%	11.9%	\$	28,954	remediation services						
							61 Educational services						
61 Educational services	7,770	8.1%	8.1%	66.3%	\$	53,460	62 Health care and social assistance						
62 Health care & soc. assist.	12,920	13.5%	6.6%	31.3%	\$	50,459							
71 Arts, entertainment & rec.	1,875	2.0%	17.9%	19.5%	\$	32,415	71 Arts, entertainment and recreation			ų.			
72 Accom. & food services	6,545	6.8%	13.0%	6.6%	Ψ \$	23,938	72 Accommodation and food services			ĥ			
	0,040	0.070	10.070	0.070	Ψ	20,000	81 Other services (except public administration)						
81 Other services	4,800	5.0%	0.8%	15.2%	\$	34,328							
							91 Public administration						
91 Public administration	9,650	10.1%	-6.1%	31.7%	\$	55,774					2006		

8 - Clusters

Number of clusters ⁸	5
% employment in clusters ⁸	19.9%

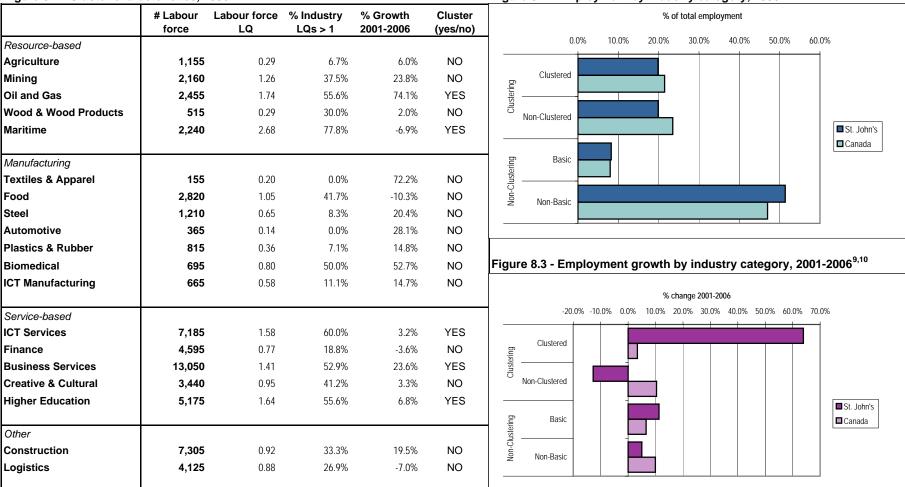


Figure 8.2 - Employment by industry category, 2006⁹

9 - Establishments

	% of establishments by number of employees										
	1-4	5-9	10-19	20-49	50-99	100-199	200-299	500+			
St. John's	51.1%	21.8%	13.4%	8.5%	2.7%	1.3%	0.8%	0.5%			
Canada	55.0%	20.2%	12.1%	7.8%	2.7%	1.2%	0.6%	0.3%			

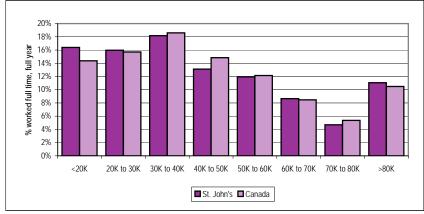
Figure 9.1 - Number of establishments by industry and # of employees, 2008 Number of establishments, 2008 Location Quotient 10 100 0 1 1,000 0.0 0.5 1.0 1.5 2.0 2.5 11 - Agriculture, Forestry, Fishing and Hunting 11 - Agriculture, Forestry, Fishing and Hunting 21 - Mining, Quarring, and Oil and Gas Extraction 21 - Mining, Quarring, and Oil and Gas Extraction 22 - Utilities 22 - Utilities 23 - Construction 23 - Construction 31-33 - Manufacturing 31-33 - Manufacturing 41 - Wholesale Trade 41 - Wholesale Trade 44-45 - Retail Trade 44-45 - Retail Trade 48-49 - Transportation and Warehousing 48-49 - Transportation and Warehousing 51 - Information and Cultural Industries 51 - Information and Cultural Industries 52 - Finance and Insurance 52 - Finance and Insurance 53 - Real Estate and Rental and Leasing 53 - Real Estate and Rental and Leasing 54 - Professional, Scientific and Technical Services 54 - Professional, Scientific and Technical Services 55 - Management of Companies and Enterprises 56 - Administrative and Support, Waste Management and 55 - Management of Companies and Enterprises Remediation Services 56 - Administrative and Support, Waste Management 61 - Educational Services and Remediation Services 61 - Educational Services 62 - Health Care and Social Assistance 62 - Health Care and Social Assistance 71 - Arts, Entertainment and Recreation 71 - Arts, Entertainment and Recreation 72 - Accommodation and Food Services 81 - Other Services (except Public Administration) 72 - Accommodation and Food Services 91 - Public Administration 81 - Other Services (except Public Administration) 91 - Public Administration ■ 500+ ■ 200-299 ■ 100-199 ■ 50-99 ■ 20-49 ■ 10-19 ■ 5-9 ■ 1-4

Figure 9.2 - Industrial specialization - Establishments, 2008

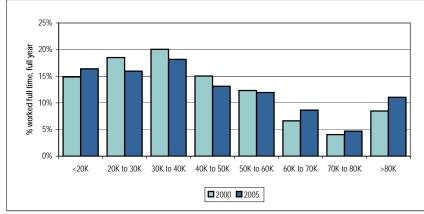
10 - Income

Full Time Employment									
Income, 2005		verage	Median						
St. John's	\$	48,392	\$	39,592					
Canada	\$	51,221	\$	41,401					

Figure 10.1 - Distribution of FT Employment Income





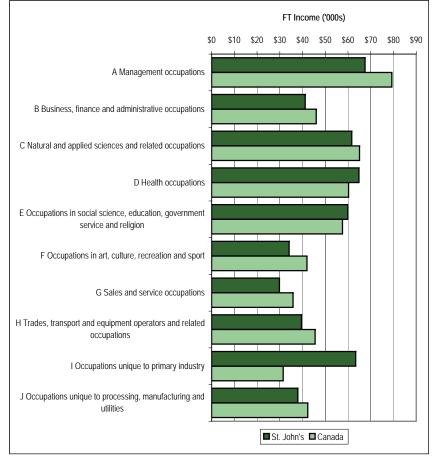


*Constant dollars (2005)

% Change in FT Emp.		
Income 2000-2005 ¹¹	Average	Median
St. John's	7.4%	3.9%
Canada	5.5%	2.4%

*Constant dollars (2005)

Figure 10.3 - Full time employment income by occupation, 2005



Notes

¹ All educational attainment statistics are calculated for the population 15 years and over.

² 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).

³ 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.

⁴ 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.

⁵ 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).

⁶ 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).

⁷ 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 at 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: 10 Occupations unique to agriculture, excluding labourers; and 11 Occupations unique to forestry operations, mining, oil and gas extraction and fishing, excluding labourers.

⁸ 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 colocation 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.

⁹ 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. Basic industries for 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 (see above).

¹⁰ Growth is calculated as % change in total employment between 2001 and 2006.

¹¹ 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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