



# **Building the Life Sciences Sector in Atlantic Canada**

**Stephen Dempsey  
President and CEO  
Greater Halifax Partnership**

**March 30, 2004**

# **Building clusters of innovation**

**Professor Michael E. Porter**  
**Harvard University**

A faded, light-colored background image of a city skyline, likely Halifax, with various buildings and a body of water in the foreground.

## Keys to building clusters of innovation

- **Innovation and competitiveness**
- **Sources of prosperity are created**
- **Governments have an important role**
- **Institutions for collaboration**
- **Commercialization**
- **Wide geographic focus**
- **Increasing awareness**
- **Shared economic vision**

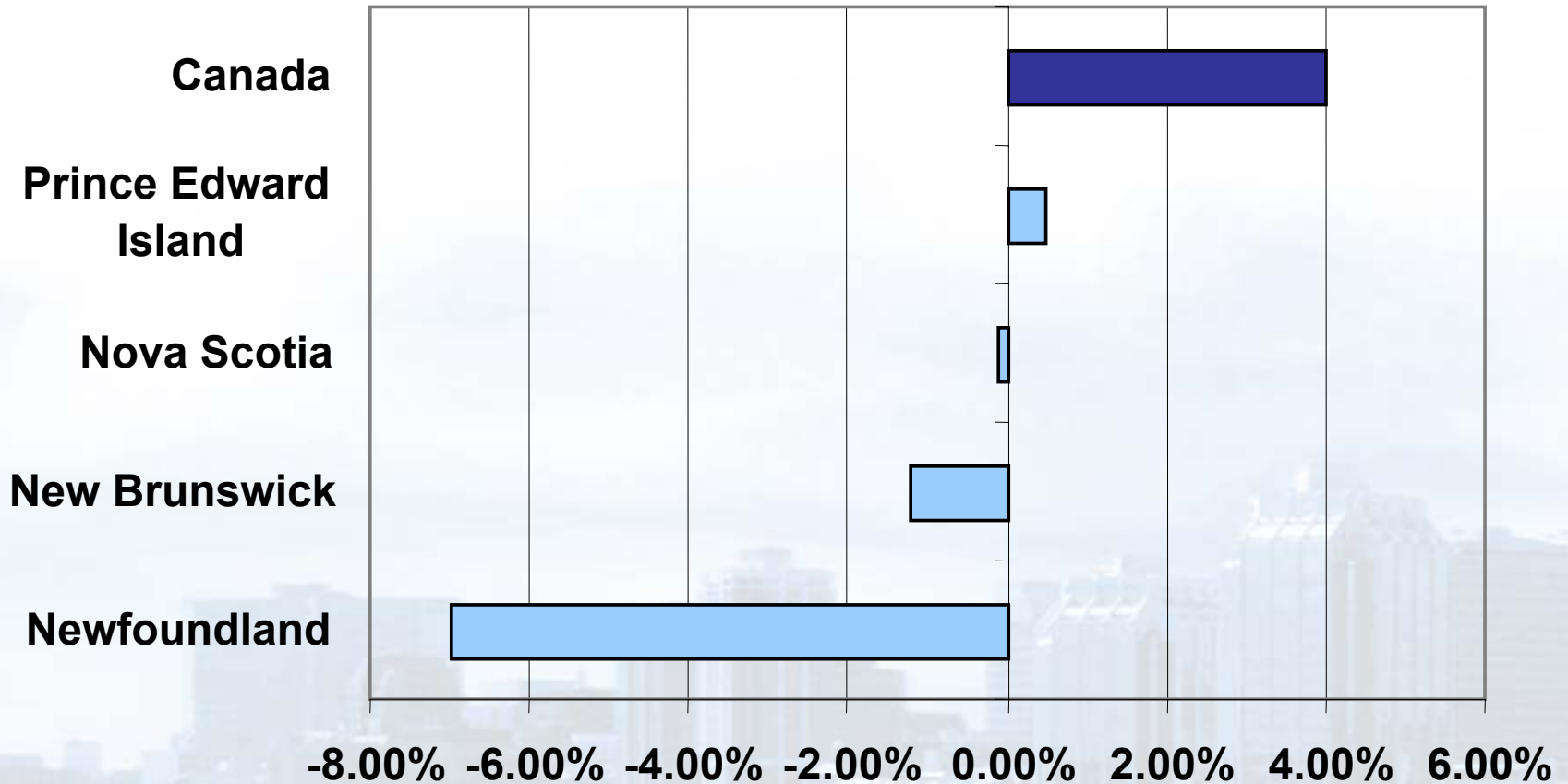
## **Regional business environment**

- **Strong physical and information infrastructure**
- **Strong k-12 education**
- **Universities and specialized research centres**
- **Specialized talent and training**
- **Government support**
- **Coordination among regional organizations**

## Defining our region



# Population Growth Rates



Source: Statistics Canada, 2001 Census of Canada

# *How do we get on this map?*



## Halifax-Moncton Growth Corridor

- **The six counties connecting Greater Moncton and Halifax**



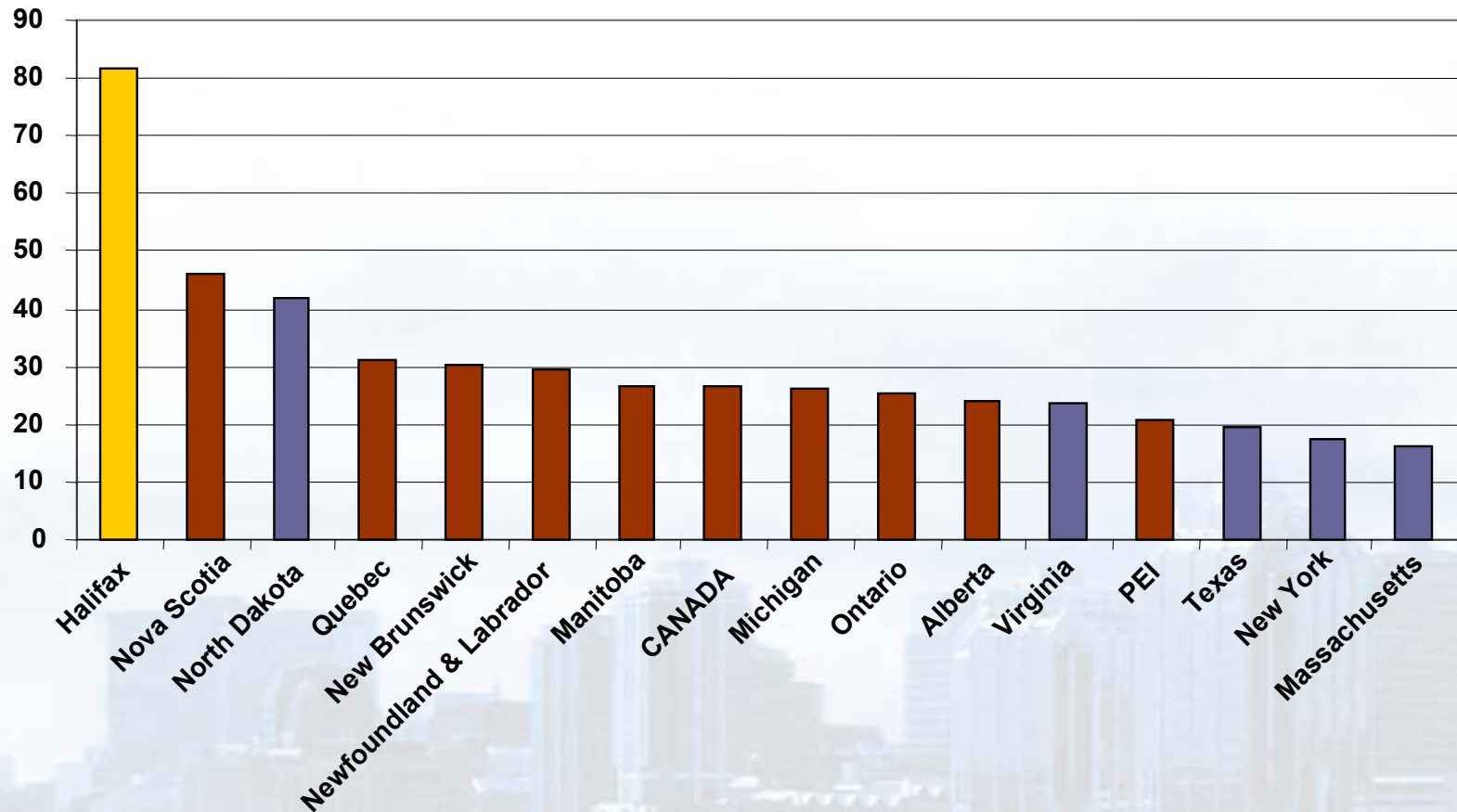
- **This represents a population base of 633,000 (2001 Census)**

## Our strengths



# Our Post-secondary Advantage

## University Enrolment per 1,000



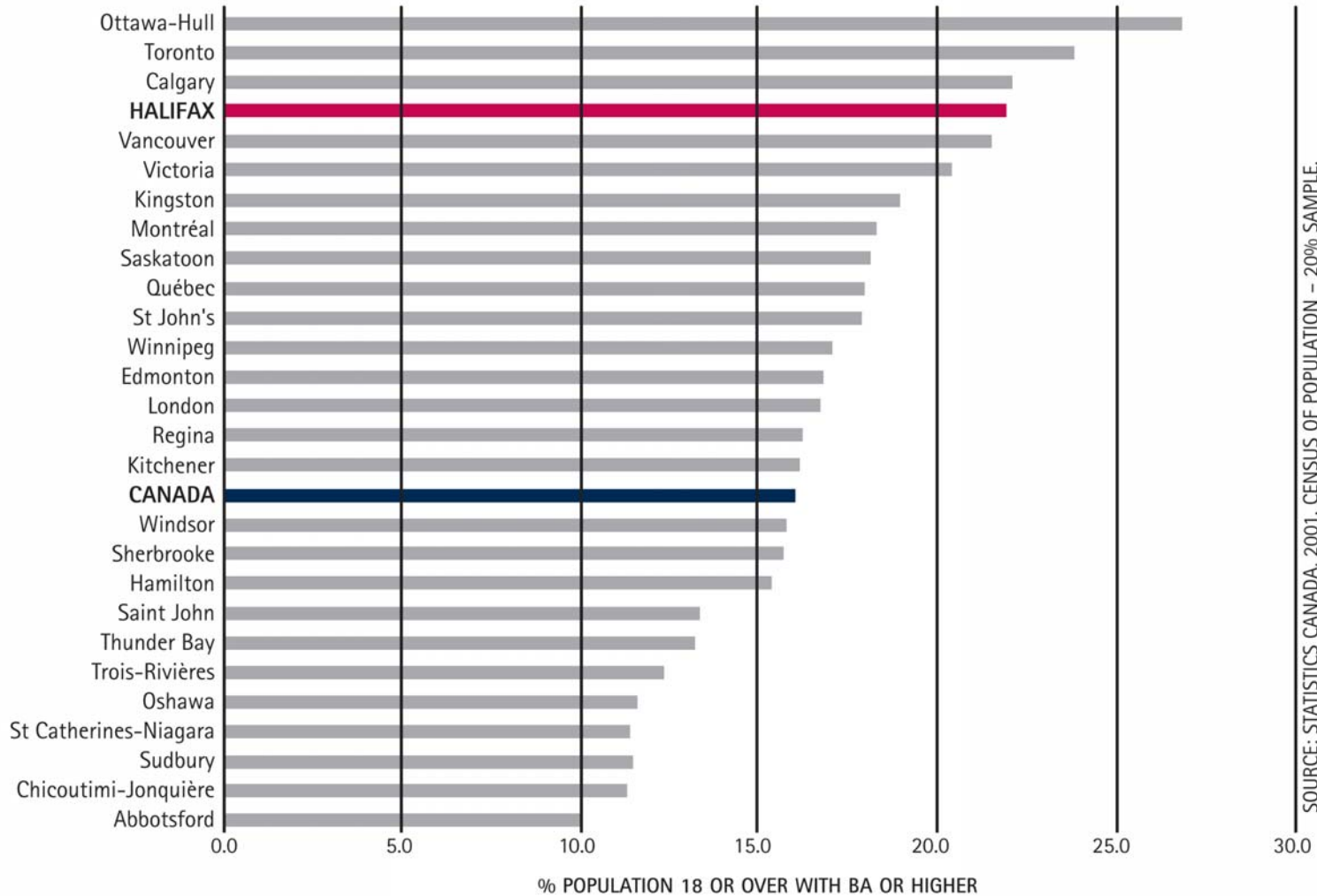
Source: Greater Halifax Partnership, Statistics Canada, US Dept of Education

## **Dr. Richard Florida**

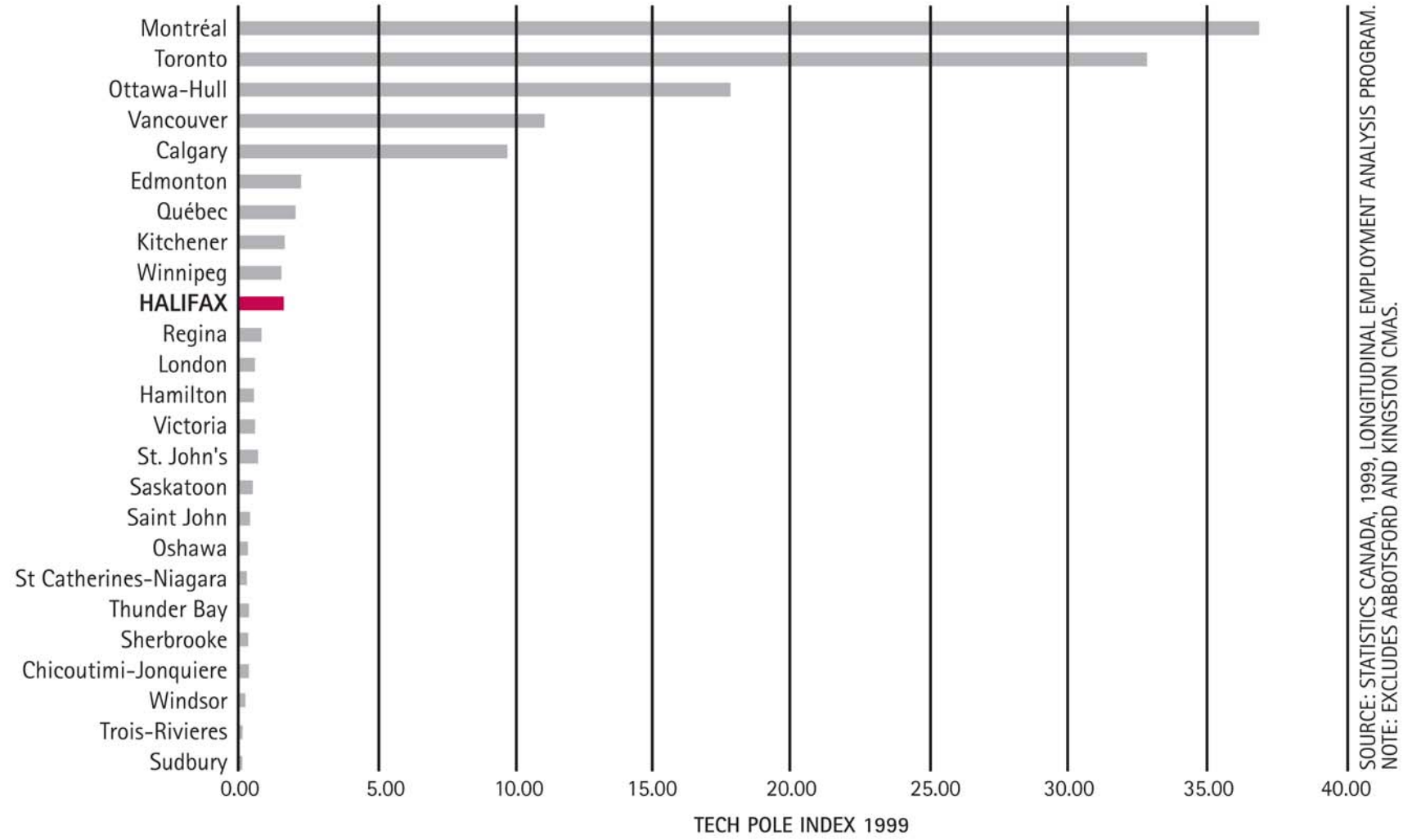
### **The Rise of the Creative Class**

- **It takes more than bricks and mortar to create economic opportunity, it takes people**
- **Requires collaborative efforts between local governments, firms, and individuals**

# Talent in Canadian Cities

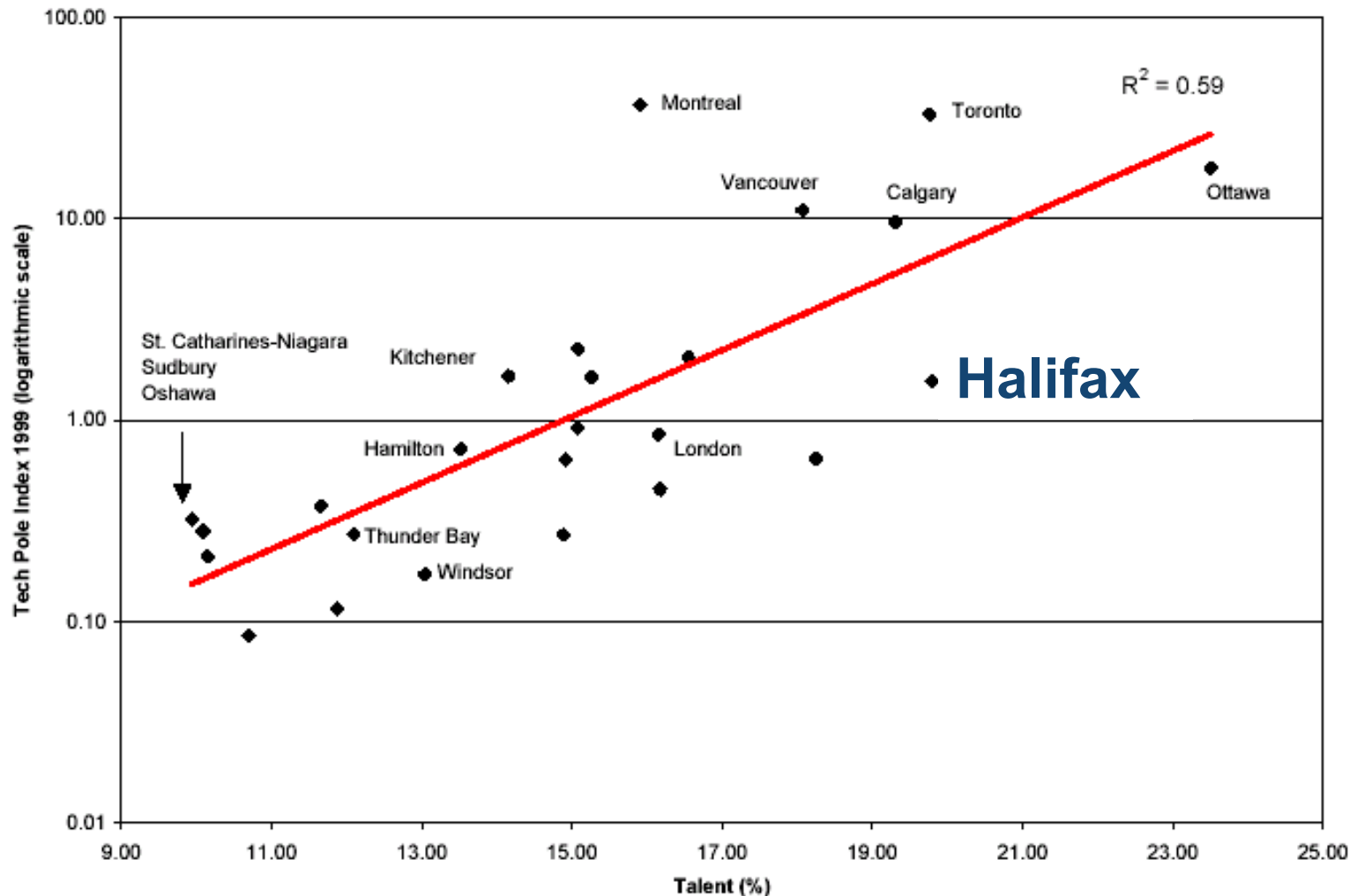


# High Tech Employment in Canadian Cities



SOURCE: STATISTICS CANADA, 1999, LONGITUDINAL EMPLOYMENT ANALYSIS PROGRAM.  
NOTE: EXCLUDES ABBOTSFORD AND KINGSTON CMAS.

# Tech-pole by Talent



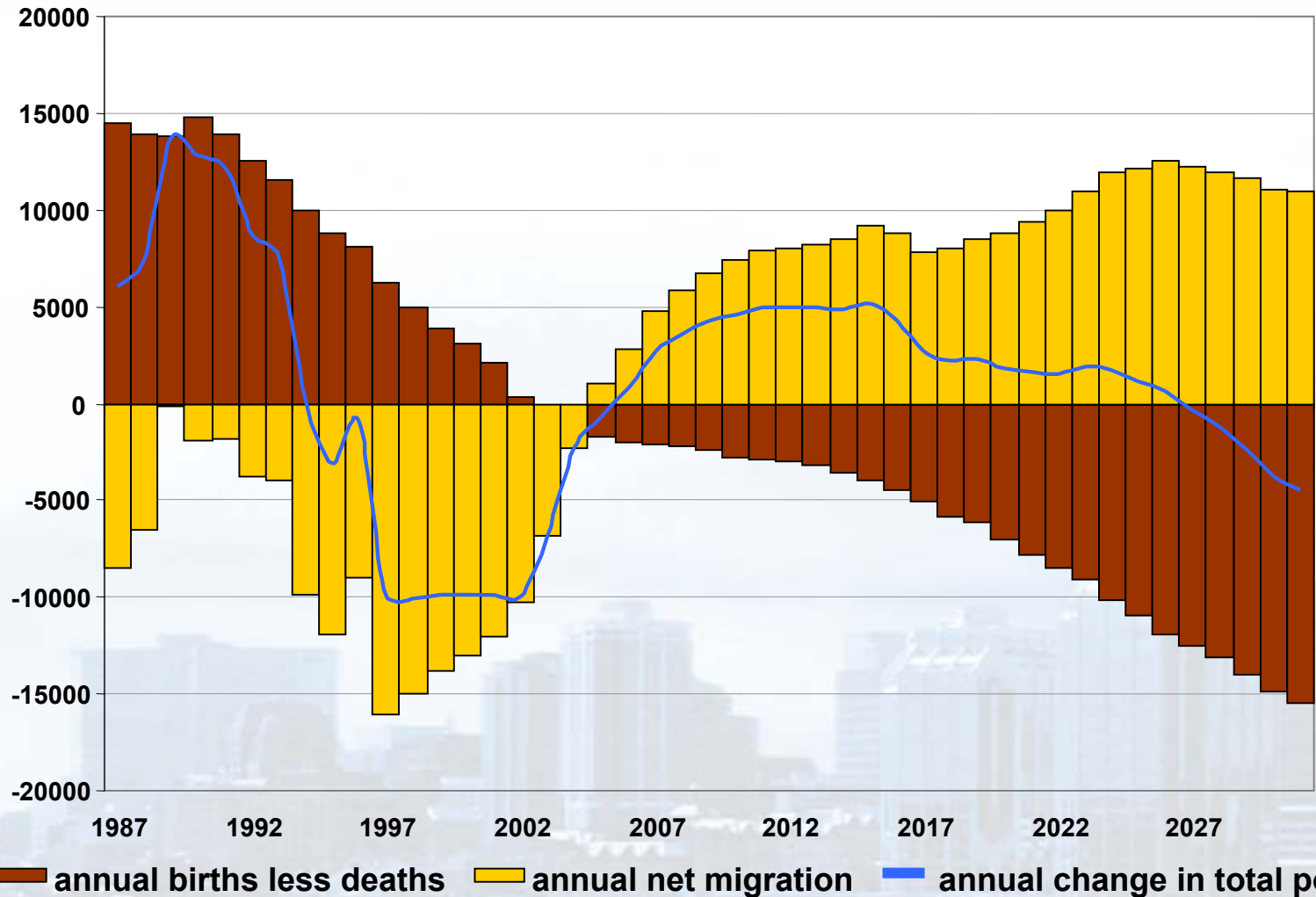
## Our challenges



## Changing demographics

- **Population growth is expected to remain strong in urban areas**
- **Natural population growth turned negative in 2003**
- **Net out-migration will stop in 2005**
- **Net in-migration will meet labour force needs**
- **The share of older workers in the labour force is expected to increase between 2001 and 2011**

# Population growth by source



Source: Statistics Canada, APEC and CSE

## Our success





Life Sciences  
Development Association

## **Founding Partners**

- Province of Nova Scotia**
- Atlantic Canada Opportunities Agency**
- BioNova**
- Capital District Health Authority**
- Dalhousie University**
- Greater Halifax Partnership**
- InNOVAcorp**
- IWK Health Centre**
- National Research Council of Canada**
- Ocean Nutrition Canada**

## **Life Sciences Sector in Nova Scotia**

- **2,300 researchers and technicians**
- **60 core firms**
- **92,000 sq ft of new and refurbished infrastructure in 2002/03 valued at \$11 million**



## **Life Sciences Sector in Nova Scotia**

- **\$120 million in total payroll**
- **\$24.6 million in Provincial tax revenue**
- **\$100 million annual expenditures in life sciences research**
- **\$43.5 million in research funding at Dalhousie in 2002/03 – up 20%**
- **\$18.6 million in pharmaceutical industry R&D investment in 2002 – up 51%**



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