

## **Creating Northern Ontario Economic Hubs, Technology Clusters and the Innovation Ecosystem**

Submitted by Sault Ste. Marie Chamber of Commerce, co-sponsored by the Timmins, Sudbury, Thunder Bay and North Bay Chambers of Commerce

### **Issue:**

Ontario's economic performance is not shared equally in all regions in the province due to differences in their economic makeup or base. External macro factors play an important role not only in Ontario's economic performance but also in each region to varying degrees. Regional growth performances during 2015 were led by the Toronto and Hamilton-Niagara regions, with the Kitchener-Waterloo-Barrie and London regions close behind. At the other end of the growth spectrum were the northern regions and to a lesser extent Windsor-Sarnia and Stratford-Bruce. .

### **Background**

Much of the research on the contemporary-knowledge economy starts from the assumption that economic inputs have shifted away from traditional resources and physical attributes towards new knowledge and innovations. As an economy steeped in the natural resource industries, Northern Ontario's strengths can be said to lie in incremental innovation - generating new value from its demonstrably strong markets.

The term innovation is quite hazy, and lacks universal definition. "In common use" writes Dr. Richard Hawkins, "innovation is used interchangeably with invention [and] often used synonymously with technology," which he argues is a misapplication. He writes, "[t]o this day, virtually all of the strategies, programs and measures undertaken by the Federal and Provincial governments in Canada[. . .] remain oriented to promoting industrial R&D and/or supporting the growth of start-up companies, mainly in the technology goods sectors" (Hawkins).

The Organization for Economic Co-operation and Development (OECD) defines innovation as "the introduction of a new or significantly improved product, process or method [that] holds the key to boosting productivity" (OECD Ministerial Report).

Building the Innovation and Entrepreneurial Ecosystem is a key element to the success of the Growth Plan for Northern Ontario. The Plan contains policies that focus and guide action on building a regional economy that is resilient, sustainable, building on the strengths and human potential of today's northerners by providing them with more education, training and career opportunities, attracting people and investments. The Growth Plan aims to strengthen the economy of the North by:

- Diversifying the region's traditional resource-based industries
- Stimulating new investment and entrepreneurship
- Nurturing new and emerging sectors with high growth potential.

Communities with a high level of entrepreneurial activity tend to be better off economically. As a Nation, Entrepreneurship is a powerful force driving innovation, productivity, job creation and economic growth. Entrepreneurs have made fundamental impacts throughout the history of Canada, and today more and more Canadians from all walks of life are becoming entrepreneurs. In Canada entrepreneurs and the Small and Medium size businesses they generate account for 54% of our gross domestic product, employ 74% of our workforce and create 54% of our new jobs nationally.

The creation of the Entrepreneurial and Innovation Ecosystem requires:

- A risk taking culture
- Talented, diverse and imaginative work force and students
- A community that gives back
- Abundant capital
- Collaboration with industry
- Government support

Canada's level of entrepreneurship is on a par with Australia, with about 13 per cent of the working-age population involved in early-stage entrepreneurial activity, according to Peter Josty, executive director of the Centre for Innovation Studies, Alberta. Among the positive attitudes cited for Canadian culture:

- Highly supportive of individual success achieved through personal effort.
- Emphasizes self-sufficiency, autonomy and personal initiative.
- Encourages creativity and innovation.

But the culture of innovation is different in Canada. "In most countries consumer services is the big sector, but in Canada, the highest rate is in the business to business services and that's a whole different ballgame," Josty said in an interview with CBC News Network's The Exchange with Amanda Lang.

Canada also lags in entrepreneurship — in which process engineers and others improve business efficiency within a larger company, he said. "The number of people in large businesses doing this is half the rate in the U.S. and Australia and we think this correlates with poor innovation and productivity in Canada," Josty said.

The peak age range for Canadian entrepreneurship is 45 to 64, but there remains a lot of activity among Canadians under age 45. More highly educated Canadians are more likely to start businesses, but there are entrepreneurs with every level of education. Creating the environment of risk taking is critical in building entrepreneurs of the future and stemming the outward migration of youth from the North.

Shifting investments into attracting youth and immigrants to the region and developing a high-skilled and technical labour force will set the region apart from competitors who dominate industries made up of low-skilled workers. This means building a strong education system with government and industry partners and less restrictive and more specialized apprenticeship programs. These strategies are broad, but necessary, given the challenges facing the region. 'Creating jobs' by pumping money into a few companies is a short-sighted goal that usually only last as long as the funding does. However creating the Ecosystem in which innovation can thrive and entrepreneurship commercialize the outcome from innovation is critical to the future of Northern economies.

As the economies of the North are somewhat isolated from centres of concentrated economic activity with limited access there is the natural existence of collaborative efforts amongst firms. Where there has been a need to build stronger collaboration is between firms conducting and or needing R&D with academic institutions, assuming they have R&D capacity. Building this capacity is critical to the development of ecosystems and economic clusters

In many communities of Northern Ontario the elements of this ecosystem exists but require a stronger emphasis in the education system and teaching of entrepreneurship. Due to geographical location there is strong sense of community that sees the business leaders sharing their financial success within the community but also a willingness to share their wisdom and experience to new and existing entrepreneurs.

Access to capital is relatively sophisticated in the urban communities of the North with extensive bank, credit union and capital lease companies. There also is a strong network of resources such as the Community Futures organizations, NOHFC, Fed Nor and community based micro lending programs. Most significant in providing innovation capital is the Northern Ontario Angels Network which has provided over \$50 million in private monies to a variety of investment opportunities realizing significant economic impact.

For Northern Ontario's businesses to be able to expand their markets beyond local boundaries, they first need to be given the opportunity to build capacity in their local market – that is, to build civic capital, which begins with access to a skilled workforce. The Private Sector Youth Internship provides this opportunity to business owners who have the potential and willingness to grow – not abandoning their local roots, but naturalizing their market in new climates, while blooming where they are planted.

In terms of the digital economy, for small and isolated communities who have little opportunity for industry within the physical locality, having access to high quality internet speeds could make or break a fledgling digital entrepreneur. The digital foot print expands into educating a skilled workforce in remote areas as well as delivering efficient modes of health care. By arming communities with opportunities that are unfettered by eternal download speeds and sprawling geography which place knowledge and opportunity out of reach, high speed broadband services can function as a springboard of opportunity for small, northern communities to expand their horizons, and markets.

At the Ontario Chamber of Commerce's annual Ontario Economic the theme of Building Prosperity by Strengthening the Innovation Ecosystem brought together leaders from the private sector, elected and non-elected members of the Provincial government, academia and chambers of commerce from across the province. While a Northern perspective was lacking the elements of the many conversations, discussion and presentations were applicable to creating a Northern Innovation Hub. Government as an enabler of the Innovation and Entrepreneurial ecosystem can enhance the Northern economy through addressing the following:

**Recommendations:**

The Ontario Chamber of Commerce urges the Government of Ontario to:

1. Locate a physical office(s) in Northern Ontario for the Ontario Centre of Excellence to maximize its investment in regional innovation through University and College research based funding and capital grants to develop knowledge clusters that support inherent economic drivers.
2. Align programs and services with company evolution from start-up to maturity and ensure funding and resources are available at each step of the process.

3. Streamline the process between the federal and provincial governments to better co-ordinate and focus innovation-related programs.
4. Simplify program support and expedite the funding process to ensure that government programs and services allow innovation to occur at the speed of the market.
5. Support investments for organizations to invest in new technologies under various funding envelopes to encourage innovation in existing economic engines of the Northern clusters and value chains.
6. Incentivize the development of a skilled workforce equipped to participate in the transition towards advance manufacturing.
7. Develop a policy of recycling monies from Cap and Trade payment back into the communities from which they came in the form of research, commercialization and pilot project implementation.

**Estimated Financial Impact to the Province**

- Small cost to the government (less than \$10 million)

**OCC Policy Committee Position:** The OCC Policy Committee supports this resolution.