

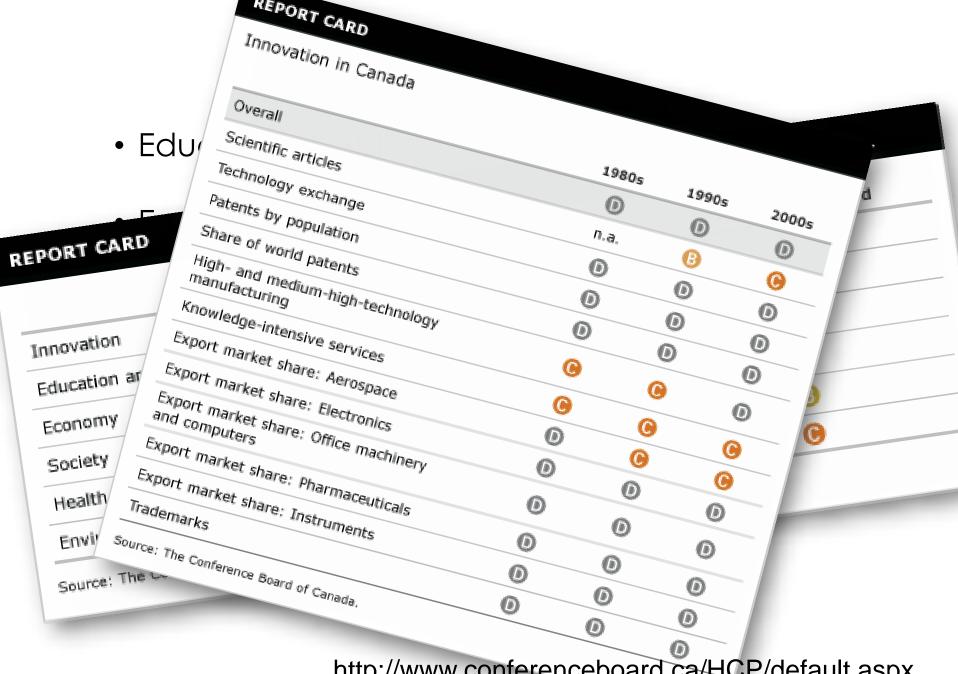


Report June 2007

How Canada Performs
A Report Card on Canada



Benchmarks Canada's socioeconomic performance against the performance of 16 other top Organization for Economic Cooperation and Development countries across six domains.



http://www.conferenceboard.ca/HCP/default.aspx

From: Expand in Ontario Canada [mailto:info@investinontario.com] Sent: February-26-10 7:06 AM

To: Bil Buston

Subject: Economist Intelligence Unit keys

Dear Riv

The Economist Intelligence on it—a trusted source of country, industry and management analysis for smart businesses — recently published a study that demonstrates the critical link between innovation and talent management in a company's ability to prosper.

The study, Fertile Ground: Cultivating a talent for innovation, emphasizes the critical importance of talent, along with developing "clusters of excellence," open innovation and access to capital, as the main elements necessary for successful business innovation.

- Ontario has the most educated workfords in the G7. In fact, 61% of Ontario's population between 25 and 64 years of age has completed their post-secondary education.
- •Ontario 's Technology Triangle is home to three universities, the headquarters of Research In Motion (makers of the BlackBerry® device) and one of Google's first Canadian offices.

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Ontario stakes its recovery on education

Facing a record deficit, McGuinty hopes to turn education into an export industry by boosting enrolment of international students by 50% over five years

March 9, 2010

By KAREN HOWLETT

TORONTO -- Ontario's road to economic recovery leads through the classroom, with a new strategy to turn education into an export industry.

The province plans to create another 20,000 spaces this year in its universities and colleges - and hopes to fill many of them by boosting emplment of international students by 50 per cent over five years.

The classroom is the centrepiece of Premer Nation McGuinty's five-year plan to return Canada's one-time economic engine to prosperity, unveiled in yesterday's Speech from the Throne.

The global economic recession has left Ontario with a battered manufacturing heartland and a record deficit of \$24.7-billion. Mr. McGuinty acknowledged that he is not sure when exactly the recession will "relax its grip" on the province.

The Throne Speech all but ignores the province's more pressing fiscal challenges, preferring instead to present an optimistic vision of the future.

It will be left to Finance Minister Dwight Duncan to handle the grim task of planning how to dig the province out of multiyear deficits when he presents the budget later this month.

But Mr. McGuinty suggested the province will go slow: "We don't want to compromise our future by moving to balance the budget too quickly," he told reporters after the speech.

And the "Logic?
a) Educate others so
they catch up, or
b) Economic benefit of
universities is in tuition
fees.

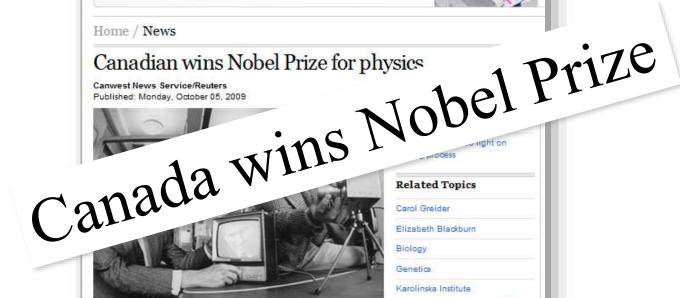
G&M, March 9, 2010

STANDING COMMITTEES **POLICY COMMITTEES HOCKEY CANADA** Finance International Open **BOARD OF DIRECTORS** Management Women's International Officers (8) Branch residents (cil Represer nd Directors pecial Advis Council (5) Senior/ Female Council Minor Council HOCKEY DEVELOPMENT Junior Council Recreational COUNCIL (24) (13)(15)(16)Council (15) Athlete Risk & Safety Parent Advisory Coaching Officiating Safety Committee Committee Committee Committee Committee Committee



Having the right playground





Alcatel-Lucent Bell Labs/AFP/Getty Images

Willard Boyle (L) and George Smith with their charge-coupled device, which transforms patterns of light into digital information and is the basis for many forms of imaging, including camcorders and ..

A Canadian man has been awarded the 2009 Nobel Prize in physics.

Willard Boyle, 85, of Halifax, and George Smith of the United States shared one half of the prize for inventing the first successful imaging technology using a digital sensor.

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Bell Labs Murray Hill, NJ

Pittsburgh wins Stanley Cup

June 12, 2009 10:25 PM | 7 Comments | UPBATER STORY

DETROIT -- The second time was the charm for the Pittsburgh Penguins.

Canada wins Stanley Cup

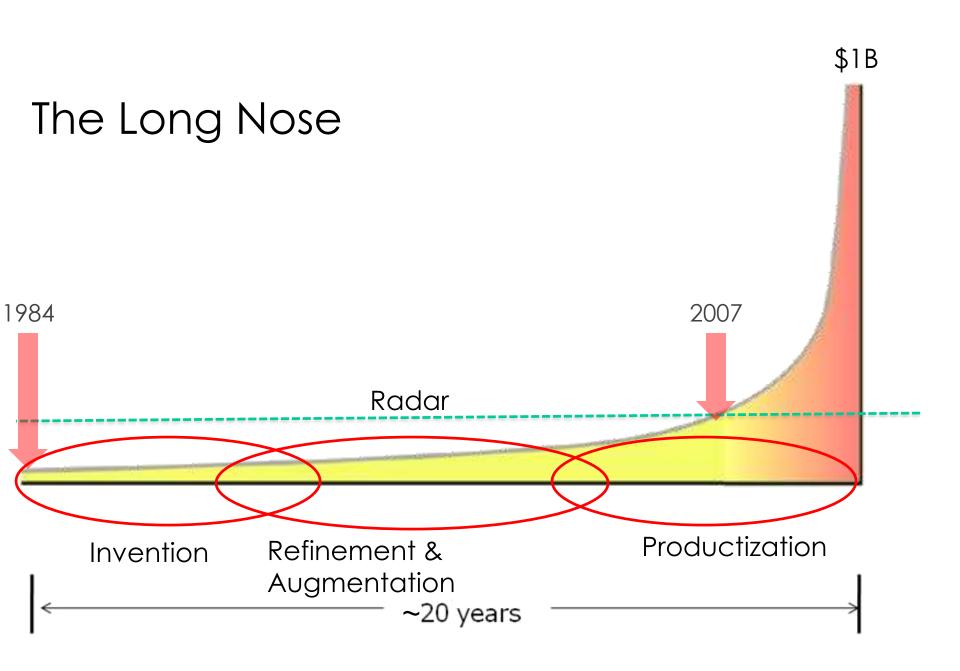
Pittsburgh Penguins players hoist the Stanley Cup. (AP / Paul Sancya)

The most dangerous course of action is to take no risk.

On Playing it Safe

It leads to certain death by slow atrophy.

On Policy







Science, invention & innovation do *not* fit into 5 year terms

On Data Informed or Misinformed Policy?

What's Missing but Relevant?

How many PhDs doing basic research in Canada today vs 1980?

- In public sector?
- In private sector?

R&D & the OECD

Bad Data and Analysis => Bad Policy

"... creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications[italics mine]." (OECD 2007, p.24)



Does basic research, as contrasted with applied research and development, make a significant contribution to an industry's or firm's rate of technological in-novation and productivity change?

Mansfield, Edwin (1980). Basic Research and Productivity Increase in Manufacturing. The American Economic Review, 70(5), 863-873.

Study:

- Surveyed R&D spending of 119 firms between 1967 and 1977
- Represented ~50% of US R&D expenditures.
- Observed ~25% reduction in investment in basic research.
- For a given investment in R&D,
 - Is a significant and direct relationship between % applied to basic research and total factor productivity.
 - an industry's rate of productivity increase during 1948-66 directly and significantly related to the extent to which its R&D was long term.

Policy Failure vs Business Success







Perimeter Institute (1999)

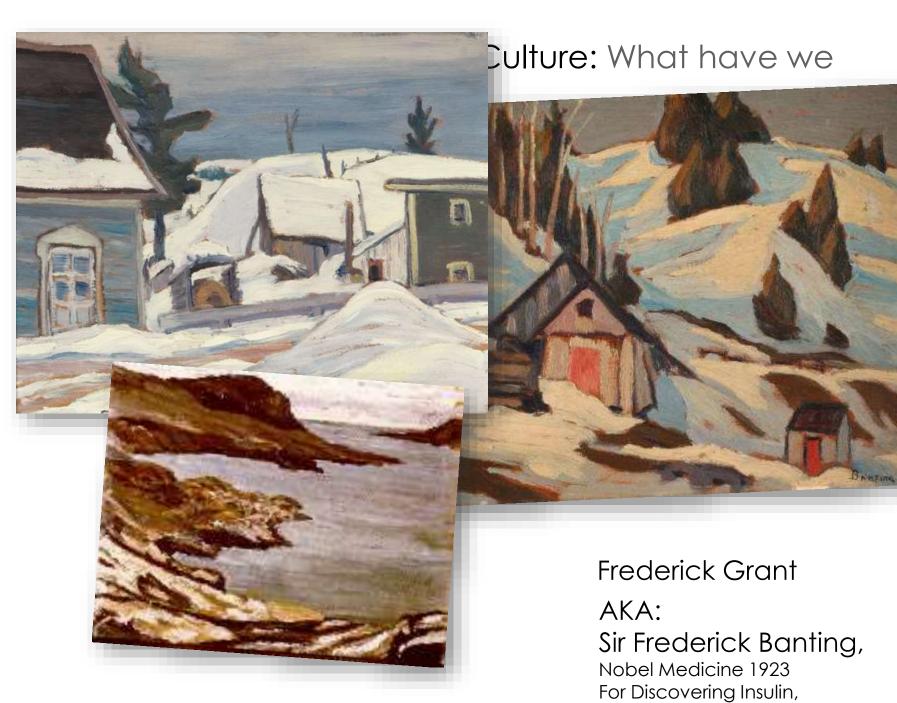
Alias Research



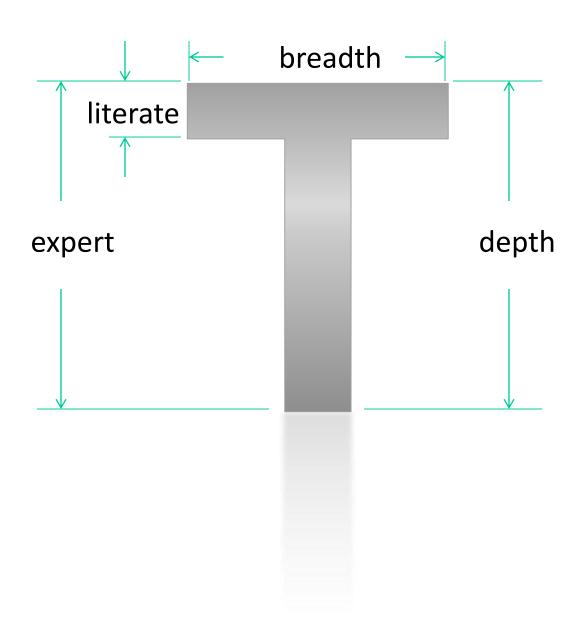
- Established 1994
- Revenue ~\$80M USD
- ~500 employees
- 4 different owners
- 6 different presidents
- Employees: ÷ 3
- Research: x3

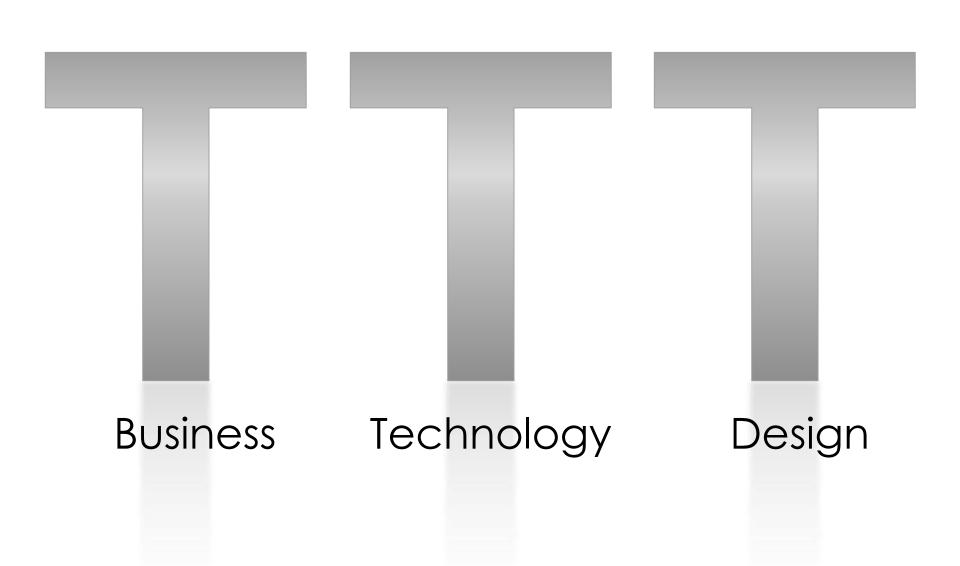












In Summary:

- Academic industry-relevant research is neither.
- Shifting from basic to applied research -> decrease in productivity
- Demonstrating industry relevance should be cue to stop academic funding. Consequences
- Historically, nearly all great sustainable breakthroughs came as unexpected results
- A 20 year horizon is already too short sighted
- Science cannot thrive in a cultural vacuum
- Risk aversion is the most dangerous course of action



Questions?