

There is No Paradox – it's mostly a matter of Management and Culture!

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Core message concerning Business Innovation in Canada

Investments are not the fundamental issue for the Canadian Innovation Gap ("Paradox").

The issue is Innovation Management!

... and LEADERSHIP nurturing a culture of entrepreneurship and pursuing innovation *comprehensively, competitively* and *methodically*!

Question: How do we bring Firm Innovation Management knowledge to the people that matter: in industry and in governments?



From Industry Analysis to Action



Topic:

Is there a Canadian paradox concerning:

- **❖ Good Canadian Science & Technology Research ∨S.**
 - Poor Canadian Business Innovation?

No! There is a disconnect between reality and some outdated perceptions (myths)!

This is not about innovation in the research labs but about <u>firm-level business</u> innovation that leads to tangible performance where it counts: in the market!

Agenda:

- Business Innovation
- Perceptions & Reality of Canadian Industry Innovation
- ♦ Summary: What's To Be Done

Innovation is the central issue in economic prosperity. (Michael Porter)



What is Business Innovation? Why Innovate?

There is a lot of buzz around INNOVATION.

However, there is much confusion about what it really means and how to manage it properly.



Create Value, Ensure Growth, Enhance Competitiveness

- > Amaze and attract **customers** with new/better value in products & services
- > Surprise **competition** through more effective internal & external processes
- > Be more competitive, grow and achieve **your vision**

Innovation is Means to an End \rightarrow "Success"

Success of an company is predicated on:

- 1. A MARKET of sufficient significance &/or growth
- 2. The **COMPETITIVENESS** of the organization in serving this Market as determined by:
 - a) Desirability and affordability of its Products (Good & Services)
 - b) Effectiveness of its Interactions with the Market (environment) in terms of understanding of, promoting to, accessing to and satisfying of its targeted customers & its stakeholders
 - c) Efficiency of its Operations (including management, development, production, HR, quality, supply, distribution, etc.)
 - d) Financial Strength,
- 3. The Culture pervasive in the Organization (including Leadership, Skills, Competencies, etc.); and
- 4. Luck & Timing

Innovation is the specific instrument of entrepreneurship.
The act that endows resources with a new capacity to create wealth.

Peter Drucker

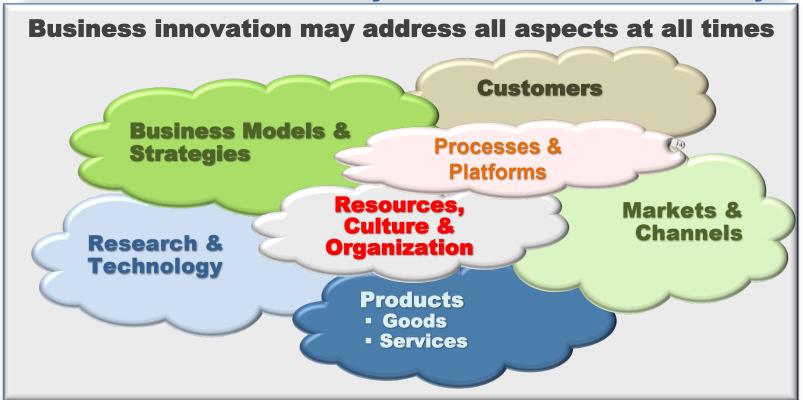


Business Innovation is Much More than just R&D

Innovation is about creating value.

Business value can be seen only in the context of the market.

Social value can be seen only in the context of the community.



"Innovation is a process through which economic and social value is extracted from ideas and knowledge through the generation, development, and implementation of new or improved strategies, capabilities, products, services, or processes."



Data from: 2012 Canadian Industry Survey on Firm-level Innovation Metrics & Management

Center for Business Innovation at Conference Board of Canada

- Inside the Firm Understanding of Innovation
- □ Across all industry sectors
- □ Across the wide geography of Canada
- □ Firms of all ages, sizes and revenues
- Over 600 responses to questions on:
 - Competitive Interests
 - > Innovation Focus & Investments
 - > Innovation Management Practices
 - > Metrics
 - > Factors affecting innovation effectiveness
- With significant impact conclusions thanks to performance correlations



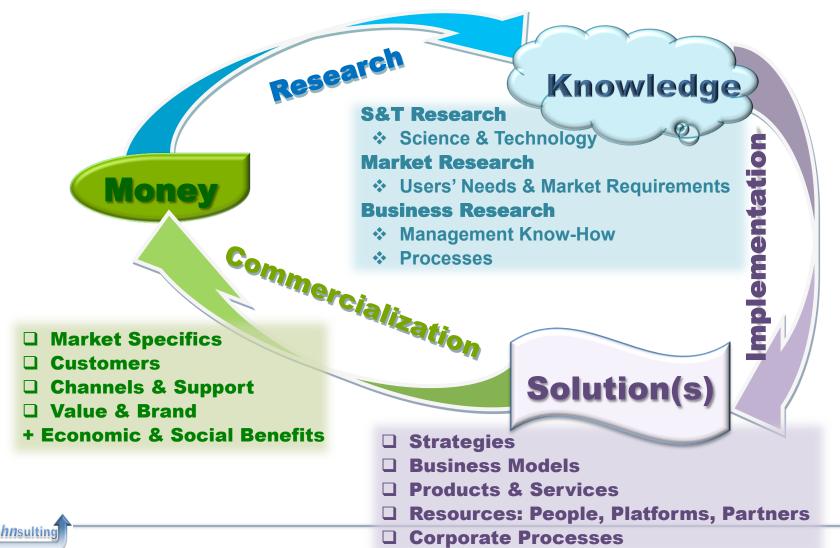


Myth #1: S&T Research = Innovation

Reality, simply put, is that:

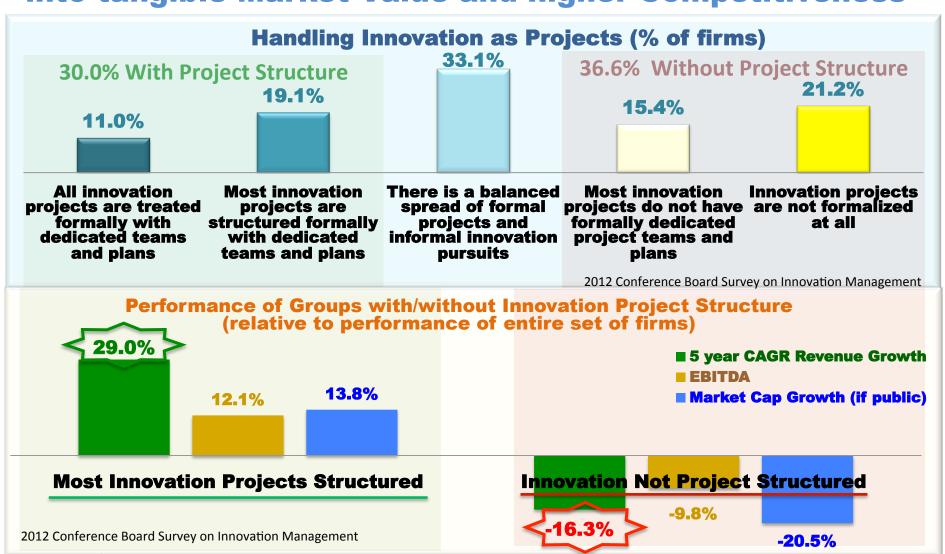
= Transformation of Money into Knowledge Research

Innovation = Transformation of Ideas & Knowledge into Money (etc.)



Myth #2: Innovation is Having Ideas

<u>Reality:</u> Innovation is Structured Work to <u>transform</u> Ideas into tangible Market Value and higher Competitiveness



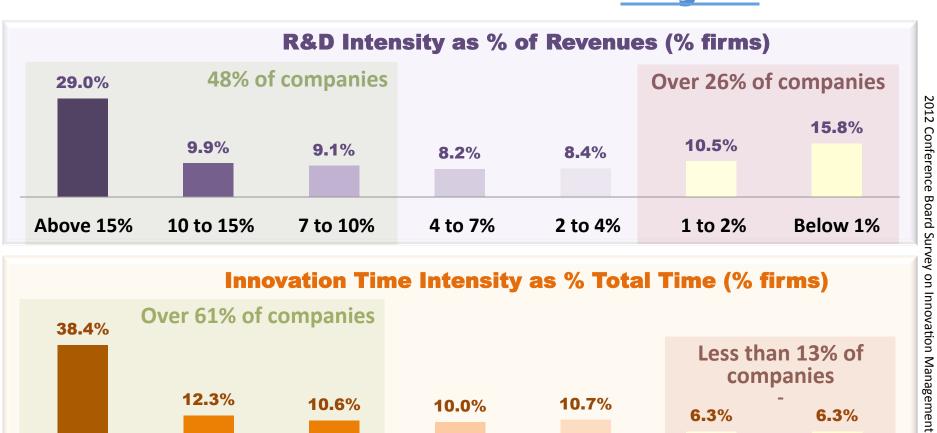
Myth #3:

Canadian Industry Does Not Invest Enough in Innovation

Above 15%

10 to 15%

Reality #1: Canadian Industry Invests a Lot in Innovation beyond R&D



BD Cohns Ratio of Time Dedicated to Innovation is a Better Measure of Innovation Investment

4 to 7%

2 to 4%

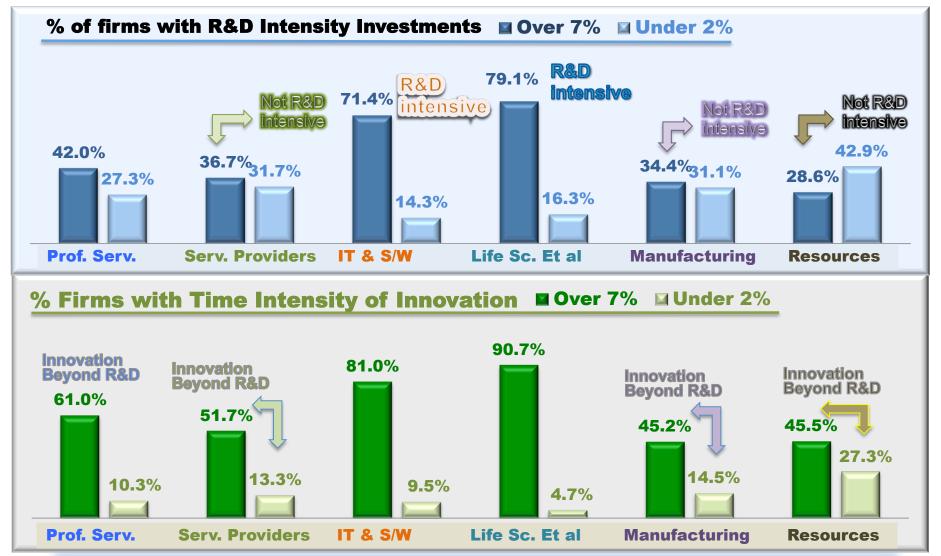
1 to 2%

7 to 10%

Below 1%

Reality #2:

Innovation Investments and Pursuits Are Sector Dependent



Sectors have specific needs and pursue different types of innovation.



Myth #4: Innovation Results are Strictly Proportional to Investments

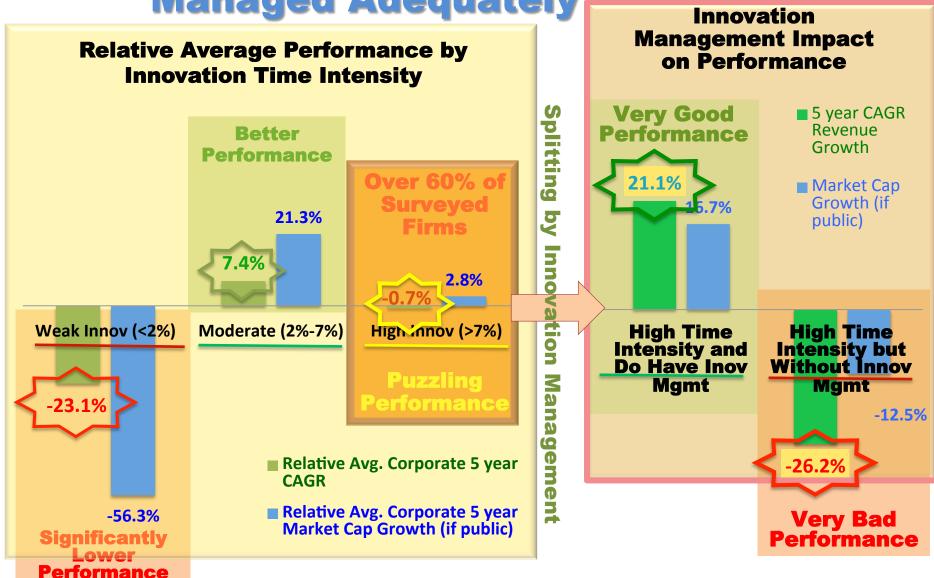
Reality: Yes... But <u>If and Only If</u> Innovation is Managed Adequately



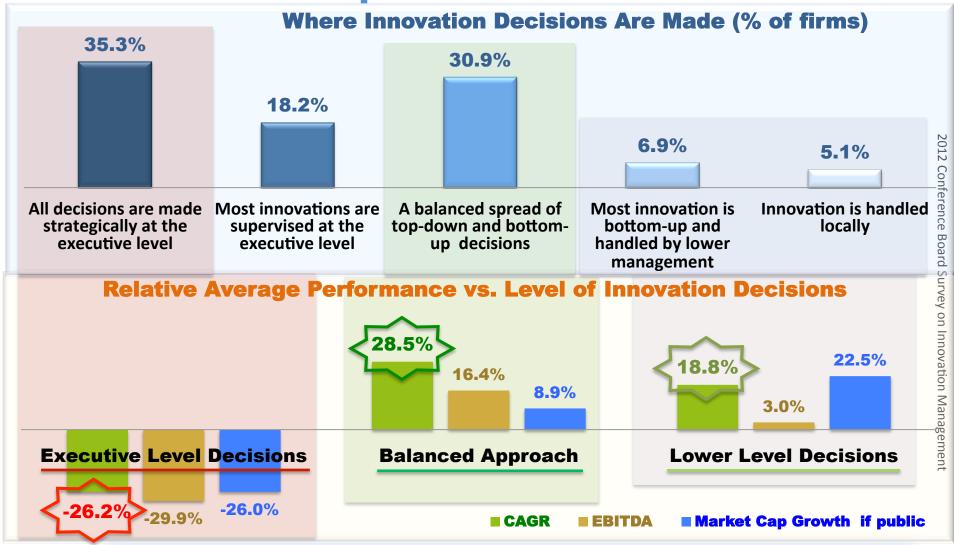
That is the problem!

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Corollary: Investing a Lot in Innovation is Meaningless unless Innovation is **Managed Adequately**



Myth #6: Executives Know Innovation Best
Reality: A Balanced Approach Top-down &
Bottom-up is much Better

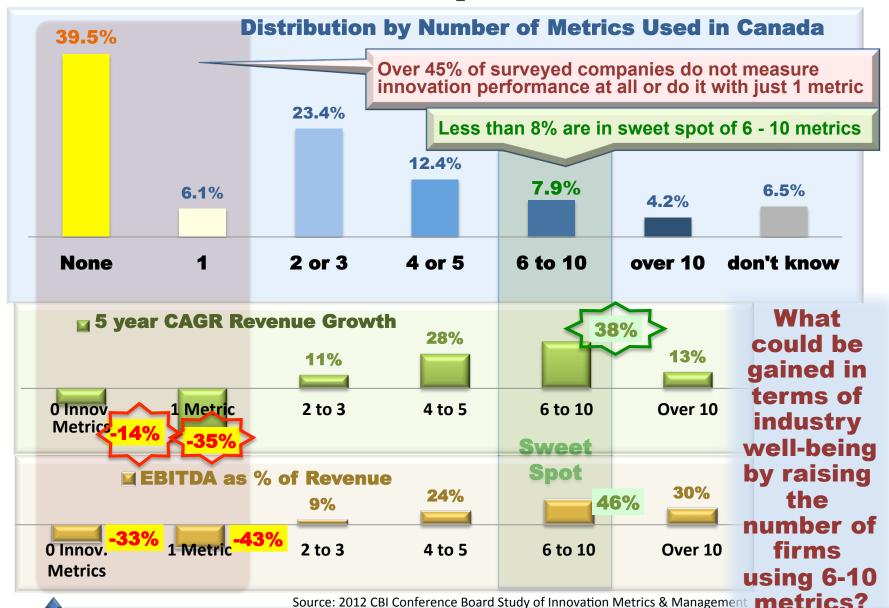


Culture matters a lot, and a culture of constructive debate is more productive.

"When all think alike, then no one is thinking" (Walter Lipmann)

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Reality: Many Canadian firms use too few metrics and their performance suffers





Myth #7: Productivity Gains is a Good Innov. Metric

Reality: Innovation is a complex multi-stage process and Productivity Gains is an obfuscating Innovation Metric unless balanced by others



- ♦ The Innovation Value Chain links productivity and quality factors at all stages
- **♦ Look inside the Productivity Value Chain to determine the Weak Links**For Illustration:



Productivity =
$$P_{CM} \times Q_{CM} \times P_{RST} \times Q_{RST} \times P_{RM} \times Q_{RM} \times P_{D&D} \times Q_{D&D} \times P_{Sup} \times Q_{Sup} \times P_{Prod} \times Q_{Prod} \times P_{MKT} \times Q_{MKT} \times P_{Sales} \times Q_{Sales}$$

What value is in blaming the **Workers**' "productivity" if **Management** took lousy decisions or **Product Design** was unappealing or **Supply** got materials of poor quality or **Marketing** was ineffectual or **Sales** channels were weak?

To find solutions one needs to address the real problem(s)!



What have we learned? What's to be done?

It's mostly about management!

... and leadership that nurtures a culture of entrepreneurship and pursues innovation comprehensively, competitively and methodically!

What truly matters:

- Showing Leadership with compelling Vision & manageable Goals; and ensuring/instilling competitive Will
- * Knowing about the Market, Yourself and the Competition
- Focusing on winning Business Models and the <u>right</u> Competitive Imperatives
- Having the necessary and sufficient means: Funding, Expertise, Connections, Structure, Processes and "Tools"
- Applying effective Metrics-based Innovation Management
- Timely evaluating & adjusting the firm's innovation portfolio
- Nurturing a Culture of Innovation/Entrepreneurship and a suitable Organization



Manage Innovation Comprehensively

Financial, Customer, Brand, Territory, Social, **OUTCOMES:**

Environmental, etc.

VALUE

Products, Services, Processes SOLUTIONS:

SOLUTIONS

CULTURE: Leadership, Governance, Innovation, Culture,

Organization

CULTURE & ORGANIZATION

RESOURCES: People, Facilities, Platforms, Partners

RESOURCES

Business: Market, Business Model, Strategy, Innovation Plan

MARKET KNOWLEDGE & BUSINESS MODEL

You can't manage what you don't understand and measure... (Lord Kelvin)

Value-add Corporate Innovation Management

Metrics drive behaviour!



Manage Innovation *Methodically* with Metrics-based Techniques & Tools





Innovation is a Renewable Corporate & National Resource to be developed, used and commercialized for economic and social benefits.

It's mostly about management!

- ... and leadership that nurtures a culture of innovation and entrepreneurship!
- ♦ Business Innovation is much more than R&D
- ♦ Canadian industry invests a lot in innovation
- Industry needs to manage better its innovation activities comprehensively, competitively and methodically
- Corporate culture matters a lot and being entrepreneurial is crucial
- It is up to <u>all of us</u> industry first, governments & academia to better it
- ... How do we bring all this knowledge to the people that matter: in industry and government?

Questions?

Dr. Sorin Cohn