Centre for Business Innovation.
Introduction

Canada is weak at business innovation. Our weakness is a major part of the reason why our national productivity performance is mediocre, year-in and year-out. Poor productivity, in turn, harms our competitive position in the world and affects our standard of living.¹

The international evidence for innovation performance consistently shows Canada, as benchmarked against its peers, ranking in the middle of the pack, or worse. Both the Conference Board’s annual Report Card on Canada and the World Economic Forum’s World Competitiveness Report have highlighted the fact that the problem stem largely from poor business innovation performance by firms. The case for action to transform our firm-level innovation to world-leading status is compelling.

The Coalition for Action on Innovation in Canada, in its report An Action Plan for Prosperity called for Canada to “... become a nation of innovators.” The report presented a 10-point plan to stimulate innovation in Canada to achieve that goal.²

To promote effective action, the Coalition recommended establishing an agency, or mandating an existing organization, to collect and analyze benchmarking and other data that would measure innovation performance and track results. This agency would “... have the capacity to conduct or commission cross-country, sector-by-sector benchmarking of Canadian business to global best practices.”³


³ Ibid., 7.
The Conference Board's Centre for Business Innovation (CBI) was created for this purpose and is now expanding its research mandate to include tools, skills development, and process improvements for Canadian organizations.

Our Approach

The Conference Board of Canada is extending the CBI's initiative for another three-year mandate to help bring about major improvements in firm-level business innovation in Canada. The CBI's mission is to learn why Canada is not a leader in business innovation, and to create insights and tools for firms and capital markets that will improve firm-level innovation, generate evidence, track our performance, and formulate public policies that will successfully stimulate business innovation. Positive results will help Canada become a world leader in this area, thereby boosting its competitiveness.

The Centre brings together a group of business, government, and academic leaders to provide guidance; review the findings of the Centre's in-depth, comprehensive, and objective research; build a shared understanding of the problems and solutions; and advise on disseminating results to firms for uptake and implementation. The core membership of this blue-ribbon advisory group will be the financial supporters of the CBI.

The Centre will seek to learn from other countries’ experiences and apply them to Canada. Some peer countries have outperformed Canada in terms of business innovation, and some sectors are more innovative in countries other than Canada. Learning from the world leaders will be valuable in proposing solutions for our country.

Background

Many explanations for poor innovation performance have been proposed over the years by academics, industry groups, think tanks, and government bodies. Most have focused on public policies such as taxation,
R&D tax credits, regulations, or market structural issues. Some organizations have argued that there is a lack of sufficient risk capital, scientists, engineers, or qualified business managers. Others have looked at firm and entrepreneurial behaviour, such as management's willingness to take risks or to build globally competitive large corporations.

But these studies have been limited by a lack of sufficient data and information. Consequently, more conclusions have been reached from beliefs and opinions than from actual evidence.

Where and how to take action? Some major attempts at solutions have already been tried. For example, great progress has been made in reducing the business tax burden in recent years. However, we have not seen hoped-for gains in business innovation performance. Is it because the tax changes were not focused on innovative firms? Did regulatory and other public policy roadblocks get in the way? Did Canadian firms fail to adapt quickly enough to the forces of globalization, by internationalizing their business through the development of global value chains and greater openness to the use of foreign direct investment? Or is it because there are internal issues within Canadian firms that are preventing them from taking advantage of lower taxes to become more innovative?

Currently, firms appear to be under-investing in innovation-related technologies. For example, investments in information and communication technologies—“embodied innovations”—have lagged in Canada compared with the United States, and there is evidence that these investments boost productivity. So why are we not seeing more Canadian businesses investing in these technologies?

So far, there are no conclusive answers—or solutions—to these firm-level issues. A major roadblock for business and government is the lack of comprehensive data and information for diagnosing the problem. Once

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4 The lack of factual evidence is mentioned frequently in the Council of Canadian Academies’ report.
that solid evidence is obtained, the next steps will be to create firm-level strategies and reinvigorate the policy environment to encourage firms to innovate.

**Innovation Defined**

The Conference Board defines innovation as a process through which economic or social value is extracted from knowledge—through creating, diffusing, and transforming ideas—to produce new or improved products, services, or processes.5

There are four major types of business innovation. (See Table 1.)

1. **Radical Change to Products and Services**
   
   Radical or breakthrough change to products and services usually originates from R&D or other forms of formal creative activity and can be in response to unarticulated, unmet, customer needs. Often, but not exclusively, radical change is based on ideas for a new product or service stemming from research discoveries or other sources. It then evolves through a development process to eventual commercialization of new or extremely different products and services. These new products and services can drastically alter what companies sell, and generate major gains in revenue and profit.

   Examples of a breakthrough product include the automobile, penicillin, Polaroid camera, laptop computer, Windows operating system, ATM machine, and iPad. Examples of a breakthrough service include the dentist (as a certified professional), Internet, IBM one-stop tech service model, and online shopping.

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5 OECD, *Science, Technology and Industry Scorecard 2005: Towards a Knowledge-Based Economy* (Paris: OECD, 2005). This definition is similar to, but broader than, the OECD definition of business innovation with its emphasis on implementation: “The implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organizational method in business practices, workplace organization or external relations.”
2. Radical Change to Processes

Radical or breakthrough change to business and management processes is based on fundamentally new ways to plan, manage, design, produce, distribute, and market products and services. These changes are rare, but when they occur they can radically alter how companies operate, and can yield major gains in productivity and profit.

Examples of breakthrough improvements in processes are assembly line automobile production; Lean manufacturing, a process for greatly reducing waste; and Six Sigma, a process for radically reducing error rates.

Table 1
Four Types of Business Innovation

<table>
<thead>
<tr>
<th>Products and services</th>
<th>Radical Product and Service Changes</th>
<th>Incremental Improvement</th>
</tr>
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<tbody>
<tr>
<td><strong>Examples</strong></td>
<td>Radical product changes result in new or fundamentally changed products and services that can radically alter what companies sell, and generate major gains in revenue and profit.</td>
<td>Incremental improvements add to or sustain the value of products and services.</td>
</tr>
<tr>
<td><strong>Examples</strong></td>
<td>Products: Automobile, penicillin, Polaroid camera, laptop computer, Windows operating system, ATM, and iPad.</td>
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<tr>
<td></td>
<td>Services: Dentistry (provided by a certified professional), the Internet, IBM’s one-stop tech service model, and online shopping.</td>
<td><strong>Examples</strong></td>
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<tr>
<td><strong>Processes</strong></td>
<td>Radical process changes result in a fundamental change to business and management processes and practices. The changes can significantly improve how firms operate and affect productivity and profits.</td>
<td>Incremental improvements enhance the efficiency and effectiveness of existing business and management processes and practices.</td>
</tr>
<tr>
<td><strong>Examples</strong></td>
<td>Assembly-line automobile production; Lean manufacturing, a process for greatly reducing waste; and Six Sigma, a process for radically reducing error rates.</td>
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<td>Adding technology to replace people in part of the production cycle, reducing water usage in food production, “de-layering” management levels to bring decision-makers closer to operations and customers, and reducing the number of steps in manufacturing processes.</td>
<td><strong>Examples</strong></td>
</tr>
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</table>

Source: The Conference Board of Canada.
3. **Incremental Improvement to Products and Services**

Incremental improvements add or sustain value by improving existing products and services. These incremental changes can be in response to evolving customer needs, or the result of ideas emerging from research labs or elsewhere. Most product and service innovation is incremental in nature.

Examples of incremental change to products include Microsoft's Windows 7, Apple's second-generation iPad, and niche food products (e.g., 10 kinds of tomato sauce). Examples of incremental change to services include online registration systems for post-secondary education courses, the spa as a one-stop source of beauty care, and same-day dry cleaning.

4. **Incremental Improvement to Processes**

Incremental improvements enhance the efficiency and effectiveness of existing processes and practices. They are based on improving current business and management processes, such as planning, design, manufacturing, production, marketing and administration, supply chains, and communications. Most process improvements are incremental in nature.

Examples of incremental improvements to processes include adding technology to replace people in a section of the production cycle, reducing water usage in the production of food, “de-layering” management levels to bring decision-makers closer to operations and customers, and streamlining manufacturing processes to reduce the number of steps.

Most innovations are incremental in nature and, if implemented properly, lead to cost reductions; enhancements to existing products, business processes, or marketing approaches; and improvements to environmental or safety performance. Less frequently, breakthroughs occur that can create new markets and industries while also eliminating or transforming others. They can also radically change the way we produce, distribute, market, and sell products and services.
The amount of each type of innovation varies by sector. For example, innovations in the natural resource sectors tend to focus almost exclusively on processes and much less on products and services. But in the computer software industry, the focus is mostly on products.

**Adoption Versus Origination**

At the firm level, most companies often adopt rather than originate innovations themselves. (See Exhibit 1.) Whether they are breakthrough or incremental in nature, many innovations are new to the firm, but not to the industry (Adopters). There are other innovations that are new to the industry, but not to global markets (Industry Leaders). And, there are those few innovations that are new to global markets (Global Leaders).

The CBI is exploring in depth the nature and implications for firms, industries, and the country of origin and adoption, as elements of firm-level innovation strategies and activities.

**Exhibit 1**

**Dimension of Innovation Adoption**

Exhibit 1

**Dimension of Innovation Adoption**

Adopters

Industry Leaders

Global Leaders

Source: The Conference Board of Canada.
Activities of the Centre

The Centre will focus on three key areas that cover the range of global, business, public policy, environmental factors; and firm-specific factors that drive business innovation performance.

Area 1—Innovation Management
Area 1 will cover firm-level business capacity, leadership, culture, and processes that are essential for innovation. It will emphasize both services and goods-producing industries. It will include operational firm-level decision-making, information management (IM) best practices, production process improvement techniques, efficiency strategies, investment options, engagement in international business, risk assessment processes, supply chain interaction, foreign capital attraction, headquarters and head office functions, mergers and acquisitions, university and college partnerships for innovation, intellectual property development and protection, and developing internal corporate innovation culture.

The impact of business size on the capacity of firms to innovate and the barriers to business growth will be explored. Quantitative analysis of firm-level data will be undertaken in diagnostics and in developing solutions for use by firms. The goals are to develop a stronger adoption of IM best practices and tools to understand the impact of well-managed innovation activities, and how to make better decisions on investing in innovation.

Area 2—Capital Markets and Public Policy
Area 2 will deal with the role and behaviour of capital markets in funding firm-level business innovation and its impact on public policy. Innovation involves risk, and capital markets finance “risky” ventures by bringing innovators together with investors who want to fund the development and commercialization of new products, services, or technologies. Highly innovative firms need risk capital to resource their new initiatives. But the nature of capital markets and government funding programs can determine many outcomes and investment decisions. Deep and efficient capital markets effectively facilitate innovation by improving the access
to risk capital. Many major innovation clusters (e.g., Silicon Valley) are accompanied by appropriate capital markets and supporting government funding programs. Quantitative analysis of the capital markets’ activity, related to business innovation and public policy, will be carried out. The role of debt and equity investment in financing innovation activity will be examined.

Area 3—People
This area will examine all aspects of education, innovation skills development, and labour force training. It will include recruiting, retaining, and rewarding employees; innovation skills curriculum; skills assessment and testing; education programs to develop highly innovative graduates; and training for employees. Quantitative analysis of education-system and firm-level data about recruiting, training, rewarding, and promoting innovators will be undertaken in diagnostics and in developing solutions for use by firms.

Optional Continuing Research on Public Policy
Depending on capacity, additional efforts will be applied (by all levels of government) to study public policy that funds, supports, encourages, inhibits, or otherwise affects firm-level innovation activity. It will include public policy and enabling taxation, laws and regulations, trade and investment policy, public procurement, and government programs to encourage and sustain firm-level innovation. This area will also address the interrelationship of innovation policy with policy in related areas, such as environment, health, foreign direct investment, trade, and regional economic development. Quantitative analysis of the impacts of policies, laws, regulations, and governmental reviews and oversight (e.g., Investment Review Panel) on the innovation behaviour of firms will be undertaken.
Optional Continuing Research on Performance Measurement and Metrics

Depending on capacity, additional efforts will be applied to cover innovation performance measurement and the macro analysis of business sectors, regions, provinces, country, and overall market conditions (e.g., market size, level of competition, market access to capital, foreign trade and direct investment activity, and mergers and acquisitions activity). It will incorporate broad-ranging measures of innovation performance that include new metrics for measuring innovation at the firm level, sectoral and regional analyses of business innovation, benchmarking, scenario modelling, and innovation forecasts. Benchmarking of successful national models for supporting business innovation, such as the German model, will be conducted to identify global best performances.

Guiding Principles

A Focus on Business Innovation
We see business innovation as one of the greatest issues affecting our country. It is a mega-issue because it involves all sectors of the economy and all regions of Canada. Its direct and indirect impacts influence all aspects of our economic well-being.

A Holistic Vision
The Centre’s focus will be on business innovation in the largest sense. This holistic approach will provide the Centre with an opportunity to generate a comprehensive set of diagnostics and solutions that address innovation at every stage of business activity. This all-encompassing approach to innovation will afford the Centre a highly sophisticated and integrated view that we believe is essential to overcome the obstacles that have so far inhibited business innovation.
A Short- to Long-Term Perspective
The CBI will examine issues from a 1- to 20-year perspective to identify short-term actions in response to immediate challenges, while also addressing structural issues.

An Action-Oriented Approach
The Centre will be action-oriented. It will identify steps toward achievable change that will boost Canada's business innovation performance. Centre research will be geared to providing concrete suggestions and tools for businesses, governments, regulators, academia, and not-for-profit organizations to respond to opportunities or challenges identified by the research. The Centre's research will be grounded in the current reality of increasing global competition, the need for greater productivity to compete in foreign markets and address international competition in Canada, the pressure of rapidly evolving information and communications technologies, and rising consumer expectations for new and improved products and services.

Inclusive, Rigorous, and Strongly Independent Research
The Centre will continue to draw on the best information and resources available in Canada and internationally to help inform its research. Members will be heavily involved in identifying research priorities. We will also seek inputs from individuals and organizations that are not Centre members. The research conclusions will be strongly independent and based on the Conference Board’s interpretation of the evidence.

A Partnership-Based Approach
The CBI will seek appropriate partnerships with individuals, researchers, and institutions that can contribute to achieving the Centre's goals and mandate. Collaboration with international organizations, such as the OECD and the World Economic Forum, are established. In addition, the Centre will pursue collaborations with important Canadian initiatives, such as the Toronto Region Research Alliance's Innovative Cities
Using its existing infrastructure, the Conference Board has the critical mass of expertise and infrastructure necessary to extend the success of the CBI initiative.

Initiative and the Coalition for Action on Innovation in Canada. Links to leading university researchers in faculties of management, business, and engineering—across Canada and internationally—will also be a priority.

The Conference Board Advantage

The Conference Board of Canada is uniquely suited to provide the Centre with the skills and experience required to undertake quantitative and related analysis of Canada’s business innovation systems and processes. The Board is also equipped to facilitate dialogue and collaboration among the investors and stakeholders to achieve the Centre’s mission. We are an independently funded, non-partisan, and non-advocacy organization with a track record of influencing the shape of national dialogue on key issues affecting our country.

The Conference Board is the largest think tank in Canada and the Centre for Business Innovation will leverage this capacity. The Board has a strong multidisciplinary research capacity, multi-stakeholder facilitation capabilities, connections with prominent leaders, and the ability to communicate effectively to decision-makers and opinion leaders. The Conference Board is uniquely positioned as a credible, neutral third party that can advocate for business innovation based on evidence. It has the critical mass of expertise and infrastructure to make this initiative a success using its existing infrastructure.

The Conference Board’s capacity to carry out a wide range of research—plus its ability to engage stakeholders at the firm, public, media, and governmental levels—provide the basis for powerful, positive gains in innovation performance.

The Conference Board has the capacity to widely disseminate the CBI’s research findings to business people and firms in all parts of Canada for adoption and use. Our multiple channels for dissemination include electronic outreach to a readership of more than 200,000 individuals and to the members of our more than 40 executive networks for business
leaders. We will also communicate results via partnerships with major business associations and organizations. In addition, we will employ the latest in social media strategies to further broaden our reach.

One of the Centre’s goals is to change how business innovation is discussed by the public, media, political leaders, and policy-makers in Canada. Centre research is designed to clearly articulate the important connections between innovation and the challenges our country faces in ensuring our national well-being and economic sustainability.

Our ability to impact public policy stems from our capacity to communicate credible, independent research findings that link the micro strategies for firms to the macro socio-economic outcomes so that government can see the impacts that can come from public policy changes. We will leverage our long-standing partnership relationship with The Conference Board, Inc. and our work as the Canadian partner of the World Economic Forum to access international findings about these linkages.

**Meetings**

- The Centre will bring together its investors and partners to share and discuss research results and to seek guidance. Participants will have opportunities to access and review the detailed research findings and recommendations. And they will learn from each other, as we tackle the tough issues of business innovation.
- Centre investors will meet twice annually as a plenary group to provide guidance on research priorities, review progress, and provide ongoing advice to the research team.
- In addition, special meetings will be organized to bring together experts to discuss ideas, issues, and research findings as part of our outreach, engagement, and research quality processes.

**Communications**

- The CBI will release public reports so that firms and others can access the findings and recommendations.
The Centre will advise the media when reports are released in order to broadcast more broadly the findings and recommendations. Briefings will be given to business groups, government officials, and public policy-makers.

The ultimate purpose of these communications efforts is to help change firm-level behaviours and stimulate government policy action that will result in more business innovation growth.

**Become an Investor**

Investors in this major new initiative will help to fundamentally change Canada’s business innovation performance. The Centre is a multi-year, multi-million-dollar initiative that will devote its resources and expertise to gathering essential information (much of which does not currently exist); analyze the root causes of Canada’s lagging business innovation performance; and develop firm-level solutions and public policies that will enable businesses to become more innovative. These actions will result in raising our national innovation performance and enhancing our competitiveness in global markets.

The Centre will appeal to investors from both the private and public sectors. Private sector firms want to better understand the different ways that innovation occurs and how it can be enhanced in their workplaces. Public sector organizations have an interest in stimulating business innovation throughout Canada’s economy. They are responsible for the policy and regulatory environment in which private sector corporations operate. In addition, public sector organizations are familiar with the complexities and inter-relationships between federal departments and among their provincial counterparts, which affect the macro environment in which businesses must operate.

We intend to fund the work of the Centre through membership fees from participating organizations. Centre members will include businesses, government representatives, and key partners from the academic and not-for-profit sectors. Investors will be asked to commit to a three-year period, at one of three annual levels. (See Exhibit 2.)
Champion Investors contribute $50,000 annually, sit on the Centre’s Steering Committee for the term of their commitment, and are deeply involved with Conference Board staff in drawing up the Centre’s research plans and meeting agendas. Champions will be represented by a senior executive who will be invited to advise and participate in overall planning, conduct, and decision-making for the Centre—through specific activities such as defining the research agenda and selecting research projects. Champion Investors will have access to Centre research results prior to public release. They will also have first priority in hosting two CBI plenary meetings to be held annually, as well as special events.

Partner Investors contribute $30,000 annually, sit on the Centre’s Steering Committee for the term of their commitment, and work with the Conference Board and Champion Investors to develop the research plan and review the research in progress. They will have access to Centre research results prior to public release. Partner Investors will be invited to host two CBI plenary meetings to be held annually, as well as special events.
Participant Investors contribute $12,000 annually. This is a special level for small and medium-sized enterprises, not-for-profit organizations, universities, and other associations. They sit on the Centre’s Steering Committee for the term of their commitment. Participant investors are invited to participate in the two CBI plenary meetings to be held annually, as well as special events. They will have access to the detailed research findings, and they will also provide input on the choice of research and meeting topics.
About The Conference Board of Canada

We are:

- The foremost independent, not-for-profit, applied research organization in Canada.
- Objective and non-partisan. We do not lobby for specific interests.
- Funded exclusively through the fees we charge for services to the private and public sectors.
- Experts in running conferences but also at conducting, publishing, and disseminating research; helping people network; developing individual leadership skills; and building organizational capacity.
- Specialists in economic trends, as well as organizational performance and public policy issues.
- Not a government department or agency, although we are often hired to provide services for all levels of government.
- Independent from, but affiliated with, The Conference Board, Inc. of New York, which serves nearly 2,000 companies in 60 nations and has offices in Brussels and Hong Kong.
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