LKC HF 1479 .157 1995/96 v.5

# CANADA'S EXPORT STRATEGY

# The International Trade Business Plan

1995/96



An Integrated Plan for Trade, Investment and Technology Development

The International Trade Business Plan is made up of an Overview highlighting Canada's international business development priorities, and a series of Industry Sector Strategies, which include lists of planned international activities. The following documents are available:

#### Overview

- 1. Advanced Manufacturing Technologies
- 2. Agriculture and Food Products
- 3. Aircraft and Parts
- 4. Automotive
- 5. Biotechnologies
- 6. Business, Professional and Educational Services
- 7. Chemicals, Plastics and Advanced Materials
- 8. Construction Products
- 9. Consumer Products
  - Apparel and Fur
  - Textiles
  - Footwear
  - Sporting Goods (including recreational watercraft)
  - Tools, Hardware and Housewares
  - Residential Furniture
  - Business and Institutional Furniture
- 10. Cultural Industries
- 11. Defence Products
- 12. Environmental Equipment and Services
- 13. Fish and Sea Products
- 14. Forest Industries

- 15. Information Technologies and Telecommunications
  - Sector Overview
  - Computers and Peripheral Equipment
  - Electronic Components
  - Geomatics
  - Instrumentation
  - Software Products and Computer Services
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- 16. Medical and Health-Care Products and Services
  - Medical Devices
  - Pharmaceuticals
  - Health-Care Services
- 17. Minerals and Metals
- 18. Oil and Gas Products and Energy Equipment
- 19. Power Equipment
- 20. Primary/Secondary Industrial Machinery
  - Mining, Forestry, Pulp and Paper
  - Agricultural Technology, Machinery and Equipment
  - Ocean and Marine Shipboard Technology
- 21. Rail and Bus Equipment
- 22. Space
- 23. Tourism

For information on how to receive the Overview, or additional Industry Sector Strategies, please call: **1-800-267-8376** 

All monetary figures in this document are expressed in Canadian dollars unless otherwise indicated.

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## **Biotechnologies**

Biotechnologies involve the use of either naturally occurring or engineered biological systems in the production of goods and services. Commercial applications of biotechnology occur in a wide range of sectors, but primarily in the health-care, agri-food and, to a lesser extent, environmental sectors. Thus far, biotechnology has had the greatest impact in the health-care sector, and is in the early stages in the agri-food and environmental sectors. Bio-industries in all three sectors are distinguished from their non-biotechnology counterparts by their relatively high level of research and commitment to innovation, and are therefore discussed together in this section of the International Trade Business Plan.

#### International Environment

Worldwide, it is estimated that between 3000 and 4000 companies, employing about 250 000 people, represent the more broadly defined bioindustries, which use biotechnology in some aspect of their products and services. The number of companies whose core business involves biotechnology is smaller, at approximately 2000 to 2500, employing approximately 150 000 people.

Biotechnology is still in the early stages of development, somewhat like the software or telecommunications industries were 15 to 20 years ago. Nevertheless, its influence and socioeconomic impact are expected to be at least as pervasive. The impact in health care is already evident, as biopharmaceuticals are currently on the market, and over 50 percent of new drugs in North American clinical trials are products of biotechnology. In agriculture, it is predicted that by the year 2005, 50 percent of the crops grown in developed countries will be transgenic. As for the environment, the market in the United States and Western Europe for bioremediation of toxic waste sites is expected to increase fivefold, from \$200 million in 1993 to \$1 billion in 2000.

Around the world, most biotechnology companies are heavily committed to research and development (R&D) programs, and only relatively few have sufficient products on the market to be considered profitable. An estimated \$15-billion worth of biotechnology products was sold worldwide in 1993. Depending on how well

biotechnology regulations are implemented and harmonized internationally, and how well public opinion accepts products of biotechnology, it is estimated that total sales will grow rapidly over the next few years to reach \$75 billion to \$150 billion by the year 2000.

The major international competitors for Canadian bio-industries are found in the United States, Japan and Europe. The U.S. has by far the most developed and diversified bio-industry, with 1270 core biotechnology firms employing 97 000. Statistics for Japan are difficult to compare with those for other countries, since biotechnology in that country is mostly carried out within large corporations where it is not usually the prime focus. Nevertheless, even though the industrial paradigm is different, Japan is second only to the U.S. in the development of its bio-industries, and is positioning itself for the future through continued commitment to technological R&D, or through domestic and international acquisitions. The European bio-industry began to develop later than its U.S. and Canadian counterparts, and now has an estimated 370 core biotechnology firms employing about 15 000.

Bio-industries are also developing in other regions of the world. Australia has an emerging bio-industry (approximately 30 core firms employing an estimated 600 people). Southeast Asia has a number of major corporations in the resource and agri-food sectors that are beginning to focus on biotechnology as a tool for producing value-added products. A number of core

biotechnology firms are also developing in the region, especially in Singapore. Latin America has similar developments, with large agri-food companies such as breweries diversifying into value-added products through biotechnology, but also with a few core firms such as BioSidus, a biopharmaceutical manufacturer in Argentina.

#### **Canadian Position**

The Canadian biotechnology effort is small when compared to that of the U.S. and Japan, but compares favourably with that of other countries. Approximately 300 companies employing 13 000 form the broadly defined bio-industry in Canada. Some 120 firms employing 6500 have biotechnology as their core business. In 1993, the core biotechnology firms invested approximately \$250 million in R&D.

The overall bio-industry in Canada is growing rapidly. A recent survey of the more broadly defined bio-industry indicated that from 1989 to 1993, sales grew at an average annual rate of 24 percent, exports at 19 percent and employment at 14 percent. In 1993, estimated total sales were almost \$2 billion, and exports were approximately \$750 million.

#### Regulation

On the domestic front, the regulatory environment is a major issue affecting international competitiveness. Countries that have set up more stringent or less responsive regulatory regimes for biotechnology products have experienced a loss of investment, as well as the movement of R&D and manufacturing activities to countries with more favourable regulatory systems. Canada is currently developing its biotechnology regulations, and a top priority for the federal government is the early finalization and promulgation of these regulations, ensuring that its regulatory practices are harmonized with those of its major trading partners, especially the United States. The objective is to develop a system that effectively

manages risk, while ensuring that regulatory requirements for bringing biotechnology products to market in Canada are not more onerous or time consuming than those of our major trading partners.

#### Investment

The Canadian bio-industry, like its counterparts in the U.S. and Europe, is experiencing increasing difficulty in raising capital, at a time when its capital requirements are rapidly expanding. While alliances with multinational pharmaceutical companies may address the needs of health-related bio-industries to a large extent, other sources are needed to address capital requirements in the agri-food and environmental bio-industries.

On the domestic front, efforts continue to encourage the private sector to place more resources in venture capital for promoting the start up and development of early-stage bioindustries. In some cases, tax incentives (such as those for labour-sponsored venture capital funds) are being used to help achieve this objective. In other cases, key private-sector institutions are taking the initiative. One such venture is Neuroscience Partners LP, which was formed by the Royal Bank, the Caisse de dépôt et placement du Québec, MDS Health Ventures, Manufacturers Life Insurance Company and several pension funds.

On the international front, an information package highlighting the Canadian investment climate for biotechnology, including Canadian tax incentives, government programs and research capabilities, is being developed by the Department of Foreign Affairs and International Trade (DFAIT) for use by Canadian missions abroad to promote Canada as a place to invest in biotechnology. Another initiative by DFAIT focusses on using contacts with international investors to raise capital for early stage firms in the agri-food and environmental biotechnology sectors. They have traditionally received less attention from investors than the health-care biotechnology sector.

#### **Human Resources**

Canada appears to have an adequate supply of highly skilled researchers in the science and engineering disciplines related to biotechnology, although skill shortages are evident in the scale-up and production process and in business management.

A comprehensive survey of future human resource needs by the Canadian bio-industry will be carried out by Human Resources Development Canada, and the results will be made available to educational institutions so that curriculums may be revised as necessary. To upgrade Canadian biotechnology firms' international business skills, Industry Canada (IC) will include issues relating to biotechnology companies in sectoral training programs being developed by the Forum for International Trade Training (FITT). The feasibility of including biotechnology in a pilot course directed at the agri-food industry is being investigated by FITT.

#### **Intellectual Property Protection**

Changes to the Canadian Patent Act to increase the length of patent coverage for pharmaceuticals have already enhanced Canada's attractiveness as a place to develop and manufacture biopharmaceuticals. Other changes, to be phased in over the next year, deal with the handling of sequencing data and the deposit of biological material. Beginning in 1996, the Canadian Patent Office will have the capacity to process sequencing data in electronic form for nucleotides and peptides. This will lead to more efficient processing of patent applications, and will provide a more accessible database for the public. In the short term, Canada will become a signatory of the Budapest Treaty, so that by 1996, the deposit of biological material in any of the collections of the international depository authorities may be considered as part of a patent disclosure in Canada.

#### **Health Biotechnology**

Canada has a world-class bioclinical research base in its medical schools and teaching hospitals. As a result, companies focussed on biotechnology as it applies to human health form the largest single group in the Canadian bio-industry, accounting for nearly 48 percent of all companies and 71 percent of the core industry. This group includes developers and manufacturers of diagnostics and therapeutics, as well as suppliers of biologicals (antibodies, antigens, fine biochemicals). It has also received more direct investment by the private sector (an estimated \$150 million in 1993) than any other bio-industry group. Over the period 1989-93, the annual average growth rates of sales, exports and employment were well above the industry average, at 27 percent, over 50 percent and 17 percent respectively. In 1993, Canadian health biotechnology sales were approximately \$1 billion, exports were approximately \$300 million and employment approximately 8000.

Companies in the diagnostics segment of this sector are challenged by the fast pace of technological change in this field, as well as by the cost-containment demands on health-care systems worldwide. These companies need to identify technology to advance their product lines, investment capital to support their R&D, and marketing partners.

Companies in the therapeutic segment of this sector, especially biopharmaceutical firms, are heavily committed to R&D, product development and increasingly, clinical trials. The bulk of the products, some of which represent billion-dollar-a-year markets, have yet to reach the marketplace. The impact of health-care cost-containment pressures has been to reduce the flow of investment from public equity markets. As a result, biotherapeutics companies need to identify alternative international sources of investment capital to bring their products to market. They also need to identify alliance partners who can help them with regulatory approvals and penetration of foreign markets.

#### Agri-food Biotechnology

Canada has developed a strong competitive position in animal husbandry (embryo transplants, high-quality bovine semen), animal protection (veterinary and aquaculture vaccines), plant breeding, biological fertilizers, biological pest control and aquaculture. Almost 20 percent of the core Canadian bio-industry is in the agrifood sector, forming the second-largest industry grouping. Over the period 1989-93, the annual average rates of growth for sales, exports and employment were 17 percent, 7 percent and 4 percent respectively. In 1993, agri-food biotechnology sales were almost \$600 million, exports approximately \$400 million and employment about 4000. The lower growth rates for this sector, as compared to health biotechnology, reflect two related factors:

- private-sector investors have tended to neglect this sector in favour of the perceived higher-profit potential in other sectors such as health care; and
- development of a responsive regulatory regime in Canada for agri-food biotechnology products has experienced significant delays when compared with the United States.

Aquaculture is an increasingly important segment of the agri-food bio-industry worldwide. The global annual catch of fish from the wild has increased to 100 million tonnes, a level that is not likely sustainable. Currently, worldwide production from aquaculture is about 20 percent of the wild catch, but by the year 2010, it is estimated that the aquaculture catch will exceed that from the wild. Although Asia remains the largest aquaculture producer with over 80 percent of the world output, Canada's aquaculture output has increased substantially from sales of \$7 million in 1984 to almost \$300 million in 1993. Salmon farming forms the largest segment of the Canadian industry, with sales of about \$200 million in 1993. Since 1992, Canada has sold more farmed salmon than wild salmon. Farming of trout, arctic char, mussels, scallops and other species is also in various stages of development. Aquaculture feeds

form a \$150-million business for a number of Canadian companies. A fish health and husbandry industry has developed on both coasts, and is actively pursuing market opportunities with fish and shellfish farming operations in Latin America and the Asia-Pacific region. Biotechnology is playing an increasingly important role both in brood stock development and in identifying and preventing diseases that can drastically affect commercial production.

Agri-food biotechnology companies need help to identify niche market opportunities and potential joint-venture partnerships to successfully penetrate export markets. This is especially true in the emerging market countries of the Asia-Pacific region and Latin America, which have focussed on biotechnology as a means of increasing agricultural productivity while potentially decreasing the use of chemical fertilizers and pesticides.

#### **Environmental Biotechnology**

Biological systems to deal with environmental problems in air, water and soil are currently being developed. Traditional methods that consider the biological component as a "black box" still predominate. However, research is intensifying worldwide on selecting naturally occurring organisms that break down specific toxic substances; improving the understanding of the conditions that make these organisms work more effectively; and, more recently, developing genetically modified organisms specifically designed to break down certain persistent toxic chemicals.

Less than 10 percent of the Canadian bioindustry is in the environmental sector. About 20 to 30 Canadian firms have developed the biological/microbiological expertise to form the core of an emerging environmental bio-industry. A much larger number of consulting engineering firms are active in site remediation, wastewater treatment, etc., but have little or no in-house biological expertise. In 1993, Canadian sales of environmental biotechnology products and services were estimated to be about \$25 million to \$50 million, exports about \$10 million to \$20 million and employment about 500 to 1000.

Canada needs to promote the upgrading of technical capabilities in its bio-environmental companies through stronger linkages with researchers in this field. Efforts will continue to build more company participation in existing research networks in the bio-environmental field. These augmented networks will promote the flow of information not only on new technology developments but also on markets and new international business opportunities in this field. This will encourage the development of Canadian strategic alliances for export market penetration. Formation of strategic alliances is especially important, since most of the Canadian environmental firms with biological/microbiological expertise are small and focussed on niche markets, and will only be able to compete in international markets by forming partnerships to provide the full-service capabilities offered by their multinational competitors. Several consulting engineering consortia have recently been formed in Canada to address this issue, and have begun to focus on penetrating export markets in North America and the Asia-Pacific region. Since these consortia currently have relatively little in-house biotechnology expertise, attempts are being made to promote links with internationally active biotechnology firms.

### Strategic Direction

# Upgrading Canadian Trade Promotion Capabilities

Biotechnology products often differ from their non-biotechnology counterparts. For example, biological fertilizers are specific to certain types of plants and soils, and function in quite a different manner than their chemical counterparts. Trade promotion initiatives need to take this into consideration.

Trade commissioners and commercial officers in Canadian missions abroad will receive information and orientation to better promote the rapidly expanding stream of Canadian biotechnology products and services. It is important to do this now, since a significant number of Canadian biotechnology products are already on the market, and a much larger number will soon enter the marketplace. Industry Canada will collaborate with the private sector to put information on the Canadian industry and its capabilities into an easily accessible electronic format, using IC's INSIGHT information system. IC will work with DFAIT to make this information system available to trade promotion personnel. Also, IC will develop orientation sessions in collaboration with the National Research Council (NRC), to profile specific segments of the Canadian bio-industry to groups of trade commissioners during their periodic visits to Canada. As electronic information capabilities develop, better tools will be available to promote Canadian products and services abroad. The first prototype multimedia marketing systems based on CD-ROM technology have already been demonstrated (profiling companies in the Canadian telecommunications sector), and application of this medium to promote Canadian biotechnology firms will be explored over the next few years.

# Intelligence on Business Climate and Market Opportunities

Access to timely market intelligence is a key factor for success in international business. As trade commissioners and commercial officers in Canadian missions abroad increase their awareness of Canada's bio-industries, it will be possible to improve the quality of the business and market intelligence that they gather on behalf of the small- and medium-sized firms that form the bulk of this industry grouping. These firms need information from abroad on the business climate (e.g. biotechnology regulations, intellectual property protection for biotechnology inventions), business opportunities, and key business and government contacts. In some cases this intelligence is already available in the form of published documents, but special studies may be required in other cases, especially for emerging markets.

# **Biotechnologies**

Activity	Date	Location	Dept.	Contact
Asia-Pacific South				
Business Financing for Emerging Biotech Firms: Promo	TBD	Various	DFAIT	613-992-5339
Incoming Mission from Australia	30-Jun-95	Montréal	IC	514-283-8813
Canada				
Market Profile (Mexico)	TBD	Canada	DFAIT	613-996-8625
Pharmaceutical Strategic Alliance Mission from Texas	Oct-95	Montréal, Québec City	DFAIT	613-944-9482
East Asia				
Outgoing Mission to Promote Canadian R&D	Sep-95	Seoul	DFAIT	613-996-2807
United States				
Strategic Alliance Facilitation Program	TBD	Canada/Various	DFAIT	613-944-9482
Venture Capital Roundtable on Biotech	TBD	Philadelphia	DFAIT	613-944-9482
Biomedical Study: Update	TBD	Chicago	DFAIT	613-944-9482
Breakfast Seminars: Strategic Alliances	TBD	U.S./Various	DFAIT	613-944-9482
Baylor College of Medicine (Houston) Technology Transfer	05-May-95	Montréal, Vancouver	DFAIT	613-944-9482
BIO '95: Info Booth	20-May-95	San Francisco	DFAIT	613-944-9482
Midwest Regional Strategic Alliances Mission	Jun-95	Evanston	DFAIT	613-944-9482
Midwest Biotech: Industry Guide	Jun-95	Chicago	DFAIT	613-944-9482
Mission to Michigan Biotech Association	Jun-95	Ann Arbor	DFAIT	613-944-9482
Pharmaceutical Purchasing Organizations Strategies	Aug-95	Dallas, Houston	DFAIT	613-944-9482
Biomedical Mission from Atlanta	Sep-95	Toronto, Montréal	DFAIT	613-944-9482
Environmental Biotech Partnering Event	Sep-95	Boston	DFAIT	613-944-9482
Biotech Technology Transfer: Guide	Sep-95	Minneapolis	DFAIT	613-944-9482
Incoming Strategic Alliance Mission	Oct-95	Quebec	DFAIT	613-944-9482
Connect San Diego: Presentation	Oct-95	San Diego	DFAIT	613-944-9482
St. Louis Biotech Forum: Investment Roundtable	Oct-95	St. Louis	DFAIT	613-944-9482
Cross-Canada Biotech Industry Seminars: Strategic Alliances	Nov-95	Canada/Various	DFAIT	613-944-9482
NEBS Mission from Eastern Canada	Nov-95	Boston, Baltimore	DFAIT	613-944-9482
Bio-pharm Investment Mission from Minneapolis	Jan-96	Ontario, B.C.	DFAIT	613-944-9482
Biotech Forum: Strategic Alliances	Feb-96	Milwaukee	DFAIT	613-944-9482

Note: Dates and locations are subject to change.

Canada's export strategy: the internation

trade business plan

## Acronyms and Initialisms Used in The International Trade Business Plan

(This list does not include sector-specific references)

AG Can Agriculture and Agri-Food Canada ASEAN Association of Southeast Asian Nations BBS electronic bulletin board system IFI international financial institution BOSS Business Opportunities Sourcing System ISO International Standards Organization CCC Canadian Commercial Corporation ITBP International Trade Business Plan CIDA Canadian International Development Agency MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec CSA Canadian Standards Association MDB multilateral development bank DFAIT Department of Foreign Affairs and International Trade NATO North Atlantic Treaty Organization DFO Department of Fisheries and Oceans NRC National Research Council DND Department of Fisheries and Oceans NRC Natural Resources Canada EC Environment Canada NRCan-CFS Natural Resources Canada Forest Service  EU European Union OECD Organization for Economic Co-operation and Development FITT Forum for International Trade Training FORDQ Federal Office of Regional Development - Quebec R&D research and development FTA Canada-U.S. Free Trade Agreement UNEP United Nations Environmental Program	ACOA	Atlantic Canada Opportunities Agency	IC	Industry Canada
BBS electronic bulletin board system BOSS Business Opportunities Sourcing System CCC Canadian Commercial Corporation CIDA Canadian International Development Agency MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec CSA Canadian Standards Association DFAIT Department of Foreign Affairs and International Trade International Trade DPO Department of Fisheries and Oceans DND Department of National Defence EC Environment Canada EC Environment Canada EDC Export Development Corporation FITT Forum for International Trade Training FORDQ Federal Office of Regional Development FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  INATO International financial institution International Standards Organization ITBP International Trade Business Plan International Trade Centre MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebe	AG Can	Agriculture and Agri-Food Canada	IDRC	International Development Research
BOSS Business Opportunities Sourcing System CCC Canadian Commercial Corporation CIDA Canadian International Development Agency CIS Commonwealth of Independent States CSA Canadian Standards Association DFAIT Department of Foreign Affairs and International Trade International Trade Velopment International Trade Velopment bank NAFTA North American Free Trade Agreement International Trade NATO North Atlantic Treaty Organization DFO Department of National Defence EC Environment Canada EC Environment Canada EDC Export Development Corporation EU European Union FITT Forum for International Trade Training FORDQ Federal Office of Regional Development Quebec FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  IISO International Standards Organization ITBP International Trade Business Plan ITC International Trade Centre MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec  NAFTA North American Free Trade Agreement NAFTA North American	ASEAN	Association of Southeast Asian Nations		Centre
BOSSBusiness Opportunities Sourcing SystemISOInternational Standards OrganizationCCCCanadian Commercial CorporationITBPInternational Trade Business PlanCIDACanadian International Development AgencyITCInternational Trade CentreAgencyMAPAQMinistry of Agriculture, Fisheries and Food of QuebecCISCommonwealth of Independent StatesMDBmultilateral development bankCSACanadian Standards AssociationMDBmultilateral development bankDFAITDepartment of Foreign Affairs and International TradeNATONorth American Free Trade AgreementDFODepartment of Fisheries and OceansNRCNational Research CouncilDNDDepartment of National DefenceNRCanNatural Resources CanadaECEnvironment CanadaNRCan-CFSNatural Resources Canada - CanadianEDCExport Development CorporationForest ServiceEUEuropean UnionOECDOrganization for Economic Co-operation and DevelopmentFITTForum for International Trade TrainingPEMDProgram for Export Marketing DevelopmentFORDQFederal Office of Regional Development - QuebecR&Dresearch and developmentFSUformer Soviet UnionSMEssmall- and medium-sized enterprisesFTACanada-U.S. Free Trade AgreementUnited Nations Environmental Program	BBS	electronic bulletin board system	IFI	international financial institution
CCC Canadian Commercial Corporation CIDA Canadian International Development Agency CIS Commonwealth of Independent States CSA Canadian Standards Association DFAIT Department of Foreign Affairs and International Trade International Trade DFO Department of Fisheries and Oceans DND Department of National Defence EC Environment Canada EC Environment Canada EDC Export Development Corporation EU European Union FITT Forum for International Trade Training FORDQ Federal Office of Regional Development Quebec FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  ITC International Trade Centre MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and FOOD of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec Food of Quebec MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec Food of Quebec MAPAQ Ministry of Agriculture, Fisher is and Food of Quebec Food of Quebec MAPAQ Ministry of Agriculture, Fisher is and Food of Quebec Food of Quebec MAPAQ Ministry of Agriculture, Fisher is and Food of Quebec Food of Quebec Food of Quebec MAPAQ Ministry of Agriculture, Fisher i	BOSS	•	ISO	International Standards Organization
CIDA Canadian International Development Agency  CIS Commonwealth of Independent States  CSA Canadian Standards Association  DFAIT Department of Foreign Affairs and International Trade  DFO Department of Fisheries and Oceans  DFO Department of National Defence  EC Environment Canada  EDC Export Development Corporation  EU European Union  FITT Forum for International Trade Training  FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union  FTA Canada-U.S. Free Trade Agreement  ITC International Trade Centre  MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec  MDB multilateral development bank  NAFTA North American Free Trade Agreement  NATO North Atlantic Treaty Organization  NRC National Research Council  NRCan Natural Resources Canada  NRCan-CFS Natural Resources Canada - Canadian Forest Service  OFCD Organization for Economic  Co-operation and Development  PEMD Program for Export Marketing Development  SMEs small- and medium-sized enterprises  LINEP United Nations Environmental Program	CCC	• • • • • • • • • • • • • • • • • • • •	ITBP	International Trade Business Plan
CIS Commonwealth of Independent States  CSA Canadian Standards Association  DFAIT Department of Foreign Affairs and International Trade  DFO Department of Fisheries and Oceans  DFO Department of National Defence  EC Environment Canada  EC Export Development Corporation  EU European Union  FITT Forum for International Trade Training  FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union  FTA Canada-U.S. Free Trade Agreement  MAPAQ Ministry of Agriculture, Fisheries and Food of Quebec  FIDH FORD AND Hold Beneau Food of Quebec  MDB multilateral development bank  NAFTA North American Free Trade Agreement  NATO North Atlantic Treaty Organization  NRC National Research Council  NRCan Natural Resources Canada  Forest Service  OECD Organization for Economic  Co-operation and Development  PEMD Program for Export Marketing  Development  R&D research and development  SMEs small- and medium-sized enterprises  LINEP United Nations Environmental Program	CIDA	•	ITC	International Trade Centre
CSA Canadian Standards Association MDB multilateral development bank DFAIT Department of Foreign Affairs and International Trade NATO North Atlantic Treaty Organization DFO Department of Fisheries and Oceans NRC National Research Council DND Department of National Defence NRCan Natural Resources Canada EC Environment Canada NRCan-CFS Natural Resources Canada - Canadian EDC Export Development Corporation Forest Service EU European Union OECD Organization for Economic Co-operation and Development FORDQ Federal Office of Regional Development - Quebec FSU former Soviet Union R&D research and development FTA Canada-U.S. Free Trade Agreement  MDB multilateral development bank NAFTA North American Free Trade Agreement NAFTO North Atlantic Treaty Organization PRES OFTE OFTE OFTE OFTE OFTE OFTE OFTE OFTE			MAPAQ	
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DFATT Department of Foreign Arians and International Trade  DFO Department of Fisheries and Oceans DND Department of National Defence EC Environment Canada EC Environment Canada EDC Export Development Corporation EU European Union FITT Forum for International Trade Training FORDQ Federal Office of Regional Development - Quebec FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  NATO North Atlantic Treaty Organization NRC National Research Council NRCan Natural Resources Canada NRCan-CFS Natural Resources Canada OFCD Organization for Economic Co-operation and Development PEMD Program for Export Marketing Development SMEs small- and medium-sized enterprises United Nations Environmental Program	CSA	Canadian Standards Association	MDB	multilateral development bank
International Trade  DFO Department of Fisheries and Oceans NRC NRC National Research Council  NRC NRC Natural Resources Canada  NRC EC Environment Canada NRC	DFAIT	Department of Foreign Affairs and	NAFTA	North American Free Trade Agreement
DND Department of National Defence  EC Environment Canada  EDC Export Development Corporation  EU European Union  FITT Forum for International Trade Training  FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union  FTA Canada-U.S. Free Trade Agreement  NRCan Natural Resources Canada  NRCan-CFS Natural Resources Canada - Canadian  NRCan-CFS Natural Resources Canada - Canadian  Forest Service  OECD Organization for Economic  Co-operation and Development  PEMD Program for Export Marketing  Development  R&D research and development  SMEs small- and medium-sized enterprises  UNEP United Nations Environmental Program			NATO	North Atlantic Treaty Organization
EC Environment Canada NRCan-CFS Natural Resources Canada - Canadian  EDC Export Development Corporation Forest Service  EU European Union OECD Organization for Economic Co-operation and Development FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  NRCan-CFS Natural Resources Canada - Canadian Forest Service  OECD Organization for Economic Co-operation and Development PEMD Program for Export Marketing Development R&D research and development SMEs small- and medium-sized enterprises UNEP United Nations Environmental Program	DFO	Department of Fisheries and Oceans	NRC	National Research Council
EDC Export Development Corporation Forest Service  EU European Union OECD Organization for Economic Co-operation and Development FORDQ Federal Office of Regional Development - Quebec PSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  Forest Service  Forest Se	DND	Department of National Defence	NRCan	Natural Resources Canada
EU European Union OECD Organization for Economic Co-operation and Development FITT Forum for International Trade Training FORDQ Federal Office of Regional Development - Quebec FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  OECD Organization for Economic Co-operation and Development PEMD Program for Export Marketing Development Trade Training PEMD Program of Export Marketing Development Trade Training Trad	EC	Environment Canada	NRCan-CFS	Natural Resources Canada - Canadian
FITT Forum for International Trade Training FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  Co-operation and Development PEMD Program for Export Marketing Development R&D research and development SMEs small- and medium-sized enterprises UNFP United Nations Environmental Program	EDC	Export Development Corporation		
FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  PEMD Program for Export Marketing Development research and development  SMEs small- and medium-sized enterprises  UNEP United Nations Environmental Program	EU	European Union	OECD	
FORDQ Federal Office of Regional Development - Quebec  FSU former Soviet Union FTA Canada-U.S. Free Trade Agreement  Development research and development  SMEs small- and medium-sized enterprises  United Nations Environmental Program	FITT	Forum for International Trade Training		
Quebec  FSU former Soviet Union  FTA Canada-U.S. Free Trade Agreement  R&D research and development  SMEs small- and medium-sized enterprises  UNEP United Nations Environmental Program	FORDQ	Federal Office of Regional Development -	PEMD	
FTA Canada-U.S. Free Trade Agreement  SMEs small- and medium-sized enterprises  UNEP United Nations Environmental Program			De-D	•
TIA Canada-U.S. Free Trade Agreement UNEP United Nations Environmental Program	FSU	former Soviet Union		•
UINEE UINEE UINEE EINIGHMENTAL PROGRAM	FTA	Canada-U.S. Free Trade Agreement		•
GALL General Agreement on Tariffs and Trade	GATT	General Agreement on Tariffs and Trade	•	e
GDP gross domestic product	GDP	gross domestic product		
GNP gross national product WTO World Trade Organization	GNP	gross national product	WIO	world I rade Organization
HRDC Human Resources Development Canada	HRDC	Human Resources Development Canada		_

Canada's export strategy : the internation trade business plan

# Acronyms and Initialisms Used in The International Trade Business Plan

(This list does not include sector-specific references)

F	ACOA	Atlantic Canada Opportunities Agency	IC	Industry Canada		
F	AG Can	Agriculture and Agri-Food Canada	IDRC	International Development Research		
A	SEAN	Association of Southeast Asian Nations		Centre		
F	BBS	electronic bulletin board system	IFI	international financial institution		
F	BOSS	Business Opportunities Sourcing System	ISO	International Standards Organization		
(	CCC	Canadian Commercial Corporation	ITBP	International Trade Business Plan		
(	CIDA	Canadian International Development	ITC	International Trade Centre		
		Agency	MAPAQ	Ministry of Agriculture, Fisheries and		
	CIS	Commonwealth of Independent States	) (IDB	Food of Quebec		
	CSA	Canadian Standards Association	MDB	multilateral development bank		
I	DFAIT	Department of Foreign Affairs and	NAFTA	North American Free Trade Agreement		
Ţ	200	International Trade	NATO	North Atlantic Treaty Organization		
	OFO	Department of Fisheries and Oceans	NRC	National Research Council		
	OND	Department of National Defence	NRCan	Natural Resources Canada		
	EC	Environment Canada	NRCan-CFS	Natural Resources Canada - Canadian		
	EDC	Export Development Corporation	OECD	Forest Service		
	EU	European Union	OECD	Organization for Economic Co-operation and Development		
	TTT	Forum for International Trade Training	PEMD	Program for Export Marketing		
FORDQ				Development		
T	сті	Quebec	R&D	research and development		
	SU	former Soviet Union	SMEs	small- and medium-sized enterprises		
	TA	Canada-U.S. Free Trade Agreement	UNEP	United Nations Environmental Program		
	GATT	General Agreement on Tariffs and Trade	WED	Western Economic Diversification		
	GDP	gross domestic product	WTO	World Trade Organization		
,	GNP gross national product			· ·		
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### Acronyms and Initialisms Used in The International Trade Business Plan

(This list does not include sector-specific references)

ACOA	Atlantic Canada Opportunities Agency	IC	Industry Canada
AG Cạn	Agriculture and Agri-Food Canada	IDRC	International Development Research
ASEAN	Association of Southeast Asian Nations		Centre
BBS	electronic bulletin board system	IFI	international financial institution
BOSS	Business Opportunities Sourcing System	ISO	International Standards Organization
CCC	Canadian Commercial Corporation	ITBP	International Trade Business Plan
CIDA	Canadian International Development	ITC	International Trade Centre
	Agency	MAPAQ	Ministry of Agriculture, Fisheries and
CIS	Commonwealth of Independent States		Food of Quebec
CSA	Canadian Standards Association	MDB	multilateral development bank
DFAIT	Department of Foreign Affairs and	NAFTA	North American Free Trade Agreement
	International Trade	NATO	North Atlantic Treaty Organization
DFO	Department of Fisheries and Oceans	NRC ·	National Research Council
DND	Department of National Defence	NRCan	Natural Resources Canada
EC	Environment Canada	NRCan-CFS	Natural Resources Canada - Canadian
EDC	Export Development Corporation		Forest Service
EU	European Union	OECD	Organization for Economic
FITT	Forum for International Trade Training		Co-operation and Development
FORDQ	Federal Office of Regional Development -	PEMD	Program for Export Marketing
_	Quebec	D0-D	Development
FSU	former Soviet Union	R&D	research and development
FTA	Canada-U.S. Free Trade Agreement	SMEs	small- and medium-sized enterprises
GATT	General Agreement on Tariffs and Trade	UNEP	United Nations Environmental Program
GDP	gross domestic product	WED	Western Economic Diversification
GNP	gross national product	WTO	World Trade Organization
HRDC	Human Resources Development Canada		

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