



Survey of Innovation 2005

Confidential when completed

Please correct any mistakes in name or address

Si vous préférez ce questionnaire en français, veuillez cocher



Please read before completing the questionnaire

Survey Purpose

The information you provide is essential to assure the availability of pertinent information on innovation. The information compiled from the survey can be used by firms for market analysis, by trade associations to study performance and other characteristics of their industries and by government to develop national and regional economic policies.

Note of Appreciation

Canada owes the success of its statistical system to a long-standing co-operation involving Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued co-operation and goodwill.

Confidentiality

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable firm without the previous consent of that firm. The data reported in this questionnaire will be treated in strict confidence, used for statistical purposes and published in aggregate form only. To enhance its usefulness, Statistics Canada will create a database combining individual responses from this survey with other information that Statistics Canada has from other surveys or from administrative records. The confidentiality provisions of the *Statistics Act* are not affected by either the *Access to Information Act* or any other legislation.

Authority

This survey is conducted under the authority of the *Statistics Act, Revised Statutes of Canada*, Chapter S-19. Completion of this questionnaire is a legal requirement under the *Statistics Act*. Your participation is appreciated.

Federal-Provincial Agreement

In order to avoid duplication of inquiry, to reduce the cost of collection and to provide consistent statistics, an agreement has been made with the Institut de la statistique du Québec, under Section 11 of the *Statistics Act, Revised Statutes of Canada*, where data on firms located or operating in Québec will be transmitted to the Institut de la statistique du Québec. The *Statistics Act* of Québec includes the same provision for confidentiality and penalties for disclosure of information as the federal *Statistics Act*.

Coverage

Please complete the questionnaire for the plant described on the label at the top of the page.

Assistance

If you have questions about this survey or require assistance to complete the questionnaire please call: 1-866-897-5474.

Survey Contact

Please indicate the name of the person completing this form so we know who to contact should we have questions about this report.

Name of person completing this questionnaire	
Title	
Telephone Number (<input type="text"/> <input type="text"/> <input type="text"/>) <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Fax Number (<input type="text"/> <input type="text"/> <input type="text"/>) <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
E-mail	

General Information

1. In this questionnaire, we refer both to your “**plant**” and to your “**firm**”. By “**plant**”, we refer to your local operations (as described on the label on the first page of the questionnaire). By “**firm**”, we refer to all plants and operations in Canada or in other countries that comprise your company.

Are the operations of your plant part of a larger firm?

- 0100 1 Yes
 3 No ► Please go to Question 2

If yes, please indicate the geographical location(s) of other plants and operations in your firm.

- | | | Yes | | No |
|------|-------------------------------------|-------------------------|---|-----------------------|
| 0101 | a. In your province/territory | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0102 | b. In the rest of Canada | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0103 | c. United States | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0104 | d. Mexico | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0105 | e. Europe | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0106 | f. Asia Pacific | 1 <input type="radio"/> | 3 | <input type="radio"/> |
| 0107 | g. All other countries | 1 <input type="radio"/> | 3 | <input type="radio"/> |

2. Please estimate (as best you can) the percentage of your full-time employees in your plant **in 2004** who had:

- 0201 a. A university degree %
 0202 b. A college/technical institute diploma %

3. Please estimate (as best you can) the percentage of the full-time employees in your plant **in 2004** who were involved in **research and development activities**.

0301 %

4. Please estimate (as best you can) the percentage of the full-time employees in your plant **in 2004** who were involved in **marketing, sales or client services**.

0401 %

5. Please estimate (as best you can) the **percentage of your plant's total revenue** that came from the sale of products (goods or services) to clients in the following geographical markets **in 2004**.

- 0501 a. In your province/territory %
 0502 b. In the rest of Canada %
 0503 c. United States %
 0504 d. Mexico %
 0505 e. Europe %
 0506 f. Asia Pacific %
 0507 g. All other countries %
TOTAL %

6. Please estimate (as best you can) the percentage of your plant's total revenue **in 2004** that came from **other plants in your firm?**
(If not applicable, indicate 0%)

0601 %

7. Please estimate (as best you can) the percentage of your plant's total revenue **in 2004** that came from your **most important customer or client** (in terms of revenue) who is not a part of your firm.

0701 %

Success factors

8. Please rate the importance of each of the following factors for the success of your plant during the three years, **2002 to 2004**.

		Degree of Importance			
		High	Medium	Low	Not relevant
Market and products					
0801	a. Seeking new markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0802	b. Satisfying existing clients	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0803	c. Developing niche or specialized markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0804	d. Developing export markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0805	e. Developing domestic markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0806	f. Developing custom-designed products (goods or services) for clients	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
Other					
0807	g. Active involvement in developing new industry-wide standards	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0808	h. Ability to comply with environmental standards and regulations	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
0809	i. Implementing new information and communications technologies	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Product (good or service) innovation

9. A **PRODUCT INNOVATION** is the market introduction of a **new** good or service or a **significantly improved** good or service. The innovation (new or improved) must be **new to your plant**. Exclude the simple resale of new goods purchased from other plants and changes of a solely aesthetic nature.

During the three years, **2002 to 2004**, did your plant introduce:

		Yes	No
0901	a. New or significantly improved goods	1 <input type="radio"/>	3 <input type="radio"/>
0902	b. New or significantly improved services	1 <input type="radio"/>	3 <input type="radio"/>

If "no" to both options, please go to question 17, otherwise continue.

10. During the three years, **2002 to 2004**, how many new or significantly improved products (goods or services) did your plant introduce onto the market?

		Number of product innovations
1001	a. Number of new or significantly improved goods	<input type="text"/>
1002	b. Number of new or significantly improved services	<input type="text"/>

11. Who developed these product (good or service) innovations during the three years, **2002 to 2004**?

(Select the most appropriate option only)

- 1101 1 Mainly your plant or your firm
 2 Your plant together with other firms or organizations
 3 Mainly other firms or organizations

12. Did your plant introduce **ANY** new or significantly improved products (goods or services) onto your market before your competitors during the three years, **2002 to 2004**?

- 1201 1 Yes
 3 No ► Please go to question 13

If yes, please estimate (as best you can) the percentage of your revenue **in 2004** from these first-to-the-market product (good or service) innovations introduced during the three years, **2002 to 2004**.

1202 %

13. Did your plant introduce **ANY** new or significantly improved products (goods or services) onto your market that were already available from your competitors, during the three years, **2002 to 2004**?

- 1301 1 Yes
 3 No ► Please go to question 14

If yes, please estimate (as best you can) the percentage of your revenue **in 2004** from these already-on-the-market product (good or service) innovations that were introduced during the period, **2002 to 2004**.

1302 %

14. On average, how long does it take for your plant to develop a new or significantly improved product (good or service)?

1401 year(s) 1402 month(s)

15. During the three years, **2002 to 2004**, were **ANY** of your new or significantly improved products (goods or services) introduced by your plant:

		Yes	No	Do not know
1501	a. A first in your province/territory?.....	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1502	b. A first in Canada?	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1503	c. A first in North America?.....	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1504	d. A world first?	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>

16. During the three years, **2002 to 2004**, were **ANY** of your plant's new or significantly improved products (goods or services) sold to the following natural resource industries?

		Yes	No
1601	a. Forestry and logging.....	1 <input type="radio"/>	3 <input type="radio"/>
1602	b. Wood products manufacturers	1 <input type="radio"/>	3 <input type="radio"/>
1603	c. Pulp and paper products manufacturers.....	1 <input type="radio"/>	3 <input type="radio"/>

Process innovation

17. A **PROCESS INNOVATION** is the implementation of a **new** or **significantly improved** production process, distribution method, or support activity for your goods or services. The innovation (new or improved) must be new to your plant.

During the three years, **2002 to 2004**, did your plant introduce:

		Yes	No
1701	a. New or significantly improved methods of manufacturing or producing goods or services	1 <input type="radio"/>	3 <input type="radio"/>
1702	b. New or significantly improved logistics, delivery or distribution methods for your inputs, goods or services	1 <input type="radio"/>	3 <input type="radio"/>
1703	c. New or significantly improved supporting activities for your processes, such as maintenance systems or operations for purchasing, accounting, or computing	1 <input type="radio"/>	3 <input type="radio"/>

If “no” to all options, please go to question 20, otherwise continue.

18. Who developed these process innovations during the three years, **2002-2004**?
(Select the most appropriate option only)

- 1801 1 Mainly your plant or your firm
 2 Mainly your plant together with other firms or organizations
 3 Mainly other firms or organizations

19. During the three years, **2002 to 2004**, were **ANY** of your new or significantly improved processes:

		Yes	No	Do not know
1901	a. A first in your province/territory?.....	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1902	b. A first in Canada?	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1903	c. A first in North America?.....	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>
1904	d. A world first?	1 <input type="radio"/>	3 <input type="radio"/>	0 <input type="radio"/>

Ongoing or abandoned product and/or process innovations

20. Did your plant have **ANY** activities to develop product (good or service) or process innovations that were still ongoing at the end of **2004**?

- 2001 1 Yes
 3 No

21. Did your plant have **ANY** activities to develop product (good or service) or process innovations that were abandoned during the three years, **2002 to 2004**?

- 2101 1 Yes
 3 No

Did your plant introduce ANY new or significantly improved innovations (products or processes) during the three years, 2002-2004? (I.e. Did you answer “yes” to any item in question 9 or question 17?)

2200 1 Yes ▶ Please go to question 23
 3 No ▶ Please go to question 22

22. Why did your plant **not** develop or introduce any new or significantly improved products (goods or services) or processes during the three years, **2002 to 2004**?

		Yes	No
2201	a. Innovations were carried out prior to 2002 to 2004.....	1 <input type="radio"/>	3 <input type="radio"/>
2202	b. Market doesn't require new products (goods or services)	1 <input type="radio"/>	3 <input type="radio"/>
2203	c. Lack of funds to carry out innovation projects.....	1 <input type="radio"/>	3 <input type="radio"/>
2204	d. Lack of trained staff to carry out innovation projects	1 <input type="radio"/>	3 <input type="radio"/>
2205	e. Other reasons, please specify: <input style="width: 200px;" type="text"/>	1 <input type="radio"/>	3 <input type="radio"/>

Please proceed to Question 31.

Innovation activities

23. During the three years, **2002 to 2004**, did your plant engage in the following innovation activities?

		Yes	No
Internal R&D (in plant)			
2301	a. Research and development (R&D) linked to new or significantly improved products (goods or services) or processes carried out in your plant	1 <input type="radio"/>	3 <input type="radio"/>
R&D performed by larger firm			
2302	b. The same activities as above, but performed on your behalf by other plants or R&D laboratories that are part of the larger firm to which your plant belongs	1 <input type="radio"/>	3 <input type="radio"/>
External R&D			
2303	c. Same activities as above, but performed by other firms or by public or private research organizations and purchased by your plant	1 <input type="radio"/>	3 <input type="radio"/>
Acquisition of machinery, equipment and software			
2304	d. Acquisition of advanced machinery, equipment or computer hardware or software to produce new or significantly improved products (goods or services) or processes	1 <input type="radio"/>	3 <input type="radio"/>
Acquisition of other external knowledge			
2305	e. Purchase or licensing of patents and non-patented inventions, know-how, and other types of knowledge from other firms or organizations	1 <input type="radio"/>	3 <input type="radio"/>
Training			
2306	f. Internal or external training for your personnel specifically for the development and/or introduction of new or significantly improved products (goods or services) or processes	1 <input type="radio"/>	3 <input type="radio"/>
Market introduction of innovations			
Activities for the market introduction of your new or significantly improved products (goods or services):		Yes	No
2307	g. Market research ..	1 <input type="radio"/>	3 <input type="radio"/>
2308	h. Launch advertising	1 <input type="radio"/>	3 <input type="radio"/>
2309	i. Market plan	1 <input type="radio"/>	3 <input type="radio"/>
2310	j. Product positioning or profiling	1 <input type="radio"/>	3 <input type="radio"/>
2311	k. Profitability analysis	1 <input type="radio"/>	3 <input type="radio"/>
2312	l. Project feasibility study	1 <input type="radio"/>	3 <input type="radio"/>
2313	m. Consumer acceptance testing	1 <input type="radio"/>	3 <input type="radio"/>
2314	n. Other, please specify: <input type="text"/>	1 <input type="radio"/>	3 <input type="radio"/>
Post-introduction commercialization			
Activities undertaken to assure the commercial success of your new or significantly improved products (goods or services):		Yes	No
2315	o. Post-introduction advertising campaigns	1 <input type="radio"/>	3 <input type="radio"/>
2316	p. Distribution agreements	1 <input type="radio"/>	3 <input type="radio"/>
2317	q. International marketing partnerships	1 <input type="radio"/>	3 <input type="radio"/>
2318	r. After sales consumer feedback	1 <input type="radio"/>	3 <input type="radio"/>
2319	s. Other, please specify: <input type="text"/>	1 <input type="radio"/>	3 <input type="radio"/>

24. Please estimate (as best you can) the percentage of your plant's total expenditures **in 2004** that were devoted to **ALL** innovation activities described in Question 23.

2401 %

Sources of information and co-operation for innovation activities

25. During the three years, **2002 to 2004**, how important to your plant's innovation activities were each of the following information sources? Please identify information sources that provided information for new innovation projects, contributed to the completion of existing innovation projects, or provided information for the commercialization of innovation.

Information sources

Internal sources

Degree of Importance

		High	Medium	Low	Not relevant
2501	a. Research and development (R&D) staff	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2502	b. Sales and marketing staff	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2503	c. Production staff	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2504	d. Management staff	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2505	e. Other plants or research and development (R&D) laboratories in your firm	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Market sources

Degree of Importance

		High	Medium	Low	Not relevant
2506	f. Suppliers of equipment, materials, components, or software	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2507	g. Clients or customers	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2508	h. Competitors or other firms in your sector	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2509	i. Consultants	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2510	j. Commercial labs/R&D firms	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Institutional sources

Degree of Importance

		High	Medium	Low	Not relevant
2511	k. Universities or other higher education institutions	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2512	l. Colleges/technical institutes	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2513	m. Federal government research laboratories	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2514	n. Provincial/territorial government research laboratories	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2515	o. Private non-profit research laboratories	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Other sources

Degree of Importance

		High	Medium	Low	Not relevant
2516	p. Conferences, trade fairs, exhibitions	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2517	q. Scientific journals and trade/technical publications	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2518	r. Investors (banks, venture capitalists, etc.)	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2519	s. Industry associations	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2520	t. Internet	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2521	u. Experienced risk-takers or entrepreneurs	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2522	v. Other, please specify:	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

26. During the three years, **2002 to 2004**, did your plant co-operate on any of your innovation activities with other firms or institutions? Innovation co-operation is active participation with other firms or organizations on innovation activities. Exclude pure contracting out of work where there is no active co-operation.

- 2600 1 Yes
 3 No ► Please go to question 29

If yes, please check which of the following reasons were important in determining the involvement of your business unit in co-operative arrangements to develop or commercialize new or significantly improved products (goods or services) and/or processes.

Development of innovation		Yes	No
2601	a. Sharing the cost of developing innovations	1 <input type="radio"/>	3 <input type="radio"/>
2602	b. Accessing research and development (R&D)	1 <input type="radio"/>	3 <input type="radio"/>
2603	c. Accessing critical expertise	1 <input type="radio"/>	3 <input type="radio"/>
2604	d. Prototype development	1 <input type="radio"/>	3 <input type="radio"/>
2605	e. Scaling up production processes	1 <input type="radio"/>	3 <input type="radio"/>
Commercialization of innovation			
2606	f. Accessing new markets	1 <input type="radio"/>	3 <input type="radio"/>
2607	g. Accessing new distribution channels	1 <input type="radio"/>	3 <input type="radio"/>
Other			
2608	h. Other reasons, please specify: <input style="width: 400px; height: 20px;" type="text"/>	1 <input type="radio"/>	3 <input type="radio"/>

27. Please indicate the type of co-operation partner and their geographical location during the three years, **2002 to 2004**. (Check all that apply)

Type of co-operation partner	In your province or territory	In the rest of Canada	US	Mexico	Europe	Asia Pacific	Other countries	Not relevant
2701 a. Other plants within your firm	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2702 b. Suppliers of equipment, materials, components, or software	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2703 c. Clients or customers	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2704 d. Competitors or other firms in your sector	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2705 e. Consultants	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2706 f. Commercial labs/R&D enterprises	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2707 g. Universities or other higher education institutions	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2708 h. Colleges/technical institutes	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2709 i. Federal government laboratories research institutes	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2710 j. Provincial/territorial government laboratories research institutes	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2711 k. Private non-profit research institutes	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2712 l. Industrial associations	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>
2713 m. Other types of partners Please specify:	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	7 <input type="radio"/>	0 <input type="radio"/>

28 Which type of co-operation partner did you find the most valuable for your plant's innovation activities?

2801 (Give corresponding letter)

Impact of innovation

29. Please indicate the degree of importance of each of the following impacts of your product (good or service) and/or process innovations introduced during the three years, **2002 to 2004**.

Impacts of innovation

Product oriented impacts

Degree of Importance

		High	Medium	Low	Not relevant
2901	a. Increased range of goods or services	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2902	b. Improved quality of goods or services	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Process oriented impacts

Degree of Importance

		High	Medium	Low	Not relevant
2903	c. Improved flexibility of production or service provision	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2904	d. Increased the speed of supplying and/or delivering goods or services	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2905	e. Reduced labour costs per unit output	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2906	f. Increased capability of production or service provision	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2907	g. Reduced materials or energy per unit output	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Impacts on plant

Degree of Importance

		High	Medium	Low	Not relevant
2908	h. Increased the plant's productivity	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2909	i. Allowed plant's expansion	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2910	j. Improved the quality of jobs	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Market impacts

Degree of Importance

		High	Medium	Low	Not relevant
2911	k. Allowed expansion to new markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2912	l. Increased the plant's profitability	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2913	m. Increased market share	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2914	n. Allowed plant to maintain its profit margins	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2915	o. Allowed the plant to keep up with its competitors	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2916	p. Increased market visibility	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2917	q. Met requirements of existing clients	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Other impacts

Degree of Importance

		High	Medium	Low	Not relevant
2918	r. Reduced environmental impacts	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2919	s. Improved health and safety	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2920	t. Met regulatory requirements	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
2921	u. Other, please specify:	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>

Problems and obstacles

30. During the three years, **2002 to 2004**, how important were the following problems and obstacles for slowing down or causing problems for your innovation activities or innovation projects?

	Problems and obstacles: development of innovation	Degree of Importance			
		High	Medium	Low	Not relevant
3001	a. Lack of funds within your plant or your firm for innovation	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3002	b. Lack of finance from sources outside your plant for innovation	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3003	c. Innovation costs too high.....	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3004	d. Lack of qualified personnel to work on innovation projects	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3005	e. Lack of information on technology	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3006	f. Difficulty in finding cooperation partners for innovation ...	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3007	g. Inability to devote staff to innovation projects on an on-going basis because of production requirements	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3008	h. Risk related to the feasibility of the innovation project	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3009	i. Other, please specify:	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
	<input type="text"/>				

	Problems and obstacles: commercialization of innovation	Degree of Importance			
		High	Medium	Low	Not relevant
3010	j. Market dominated by established firms	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3011	k. Uncertain demand for innovative goods or services	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3012	l. Lack of knowledge of markets	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3013	m. Insufficient marketing effort	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3014	n. Inappropriate targeting	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3015	o. Inappropriate packaging	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3016	p. Lack of consumer acceptance	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3017	q. Lack of industry-wide standards.....	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3018	r. Lack of government standards and regulations	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
3019	s. Other, please specify:	5 <input type="radio"/>	3 <input type="radio"/>	1 <input type="radio"/>	0 <input type="radio"/>
	<input type="text"/>				

Intellectual property and acquisition of technology

31. Please indicate which of the following methods were used by your plant to protect its intellectual property during the three years, **2002 to 2004**.

Formal methods		Yes	No
3101	a. Patents	1 <input type="radio"/>	3 <input type="radio"/>
3102	b. Trademark	1 <input type="radio"/>	3 <input type="radio"/>
3103	c. Copyrights	1 <input type="radio"/>	3 <input type="radio"/>
3104	d. Confidentiality agreements	1 <input type="radio"/>	3 <input type="radio"/>
Strategic methods			
3105	e. Secrecy	1 <input type="radio"/>	3 <input type="radio"/>
3106	f. Complexity of design	1 <input type="radio"/>	3 <input type="radio"/>
3107	g. Lead-time advantage on competitors	1 <input type="radio"/>	3 <input type="radio"/>
Other			
3108	h. Other, please specify:	1 <input type="radio"/>	3 <input type="radio"/>
<input style="width: 100%; height: 20px;" type="text"/>			

32. Please estimate (as best you can) the percentage of your products (goods or services) that were protected **by patents** (in terms of their contribution to total revenue) **in 2004**.

3201 %

33. Please estimate (as best you can) the percentage of your products (goods or services) that were protected **by trademarks** (in terms of their contribution to total revenue) **in 2004**.

3301 %

34. During the three years, **2002 to 2004**, did your plant apply for a patent?

3401 1 Yes
 3 No

35. During the three years, **2002 to 2004**, did your plant **acquire licenses** from other firms or organizations?

(Please exclude software licenses under \$1,000)

3500 1 Yes
 3 No ▶ Please go to question 36

If yes, please indicate the source of the licenses:

		Yes	No
3501	a. A Canadian firm	1 <input type="radio"/>	3 <input type="radio"/>
3502	b. A foreign firm	1 <input type="radio"/>	3 <input type="radio"/>
3503	c. A Canadian university	1 <input type="radio"/>	3 <input type="radio"/>
3504	d. A Canadian hospital	1 <input type="radio"/>	3 <input type="radio"/>
3505	e. A Canadian federal government lab	1 <input type="radio"/>	3 <input type="radio"/>
3506	f. A provincial/territorial government lab	1 <input type="radio"/>	3 <input type="radio"/>
3507	g. Other, please specify:	1 <input type="radio"/>	3 <input type="radio"/>
<input style="width: 100%; height: 20px;" type="text"/>			

Market and supply chain

36. Please estimate (as best you can) the percentage of the total revenue of your plant **in 2004** which came from the sale of products (goods or services) to the following industries:

NATURAL RESOURCE INDUSTRIES		Percentage of total revenue	
3601	a. Forestry and logging	<input type="text"/>	%
3602	b. Wood products manufacturers	<input type="text"/>	%
3603	c. Pulp and paper products manufacturers	<input type="text"/>	%
3604	d. Mining	<input type="text"/>	%
3605	e. Oil and gas extraction	<input type="text"/>	%
<hr/>			
3606	f. ALL OTHER INDUSTRIES	<input type="text"/>	%
TOTAL		100	%

37. Please estimate (as best you can) the percentage of your plant's total expenditures on **raw materials and components** that were supplied from the different geographical locations listed below **in 2004**.

(Include suppliers that are part of your larger firm)

		Percentage of total expenditures on raw materials and components	
3701	a. In your province/territory	<input type="text"/>	%
3702	b. In the rest of Canada	<input type="text"/>	%
3703	c. United States	<input type="text"/>	%
3704	d. Mexico	<input type="text"/>	%
3705	e. Europe	<input type="text"/>	%
3706	f. Asia Pacific	<input type="text"/>	%
3707	g. All other countries	<input type="text"/>	%
TOTAL		100	%

38. **In 2004**, did your plant buy **new machinery or equipment**?

- 3800 1 Yes
 3 No ► Please go to question 39

If yes, please estimate (as best you can) the percentage of all your plant's expenditures on **new machinery and equipment** that were supplied from the following different geographical locations **in 2004**.

(Include suppliers that are part of your larger firm)

		Percentage of total expenditures on machinery and equipment	
3801	a. In your province/territory	<input type="text"/>	%
3802	b. In the rest of Canada	<input type="text"/>	%
3803	c. United States.....	<input type="text"/>	%
3804	d. Mexico	<input type="text"/>	%
3805	e. Europe	<input type="text"/>	%
3806	f. Asia Pacific.....	<input type="text"/>	%
3807	g. All other countries	<input type="text"/>	%
TOTAL		100	%

39. **In 2004**, did your plant contract-out for **R&D services**?

(Do **not include** R&D carried out on your behalf by other plants and R&D units in your larger firm)

- 3900 1 Yes
 3 No ► Please go to question 40

If yes, please estimate (as best you can) the percentage of all your plant's expenditures on **R&D services** that were supplied from the following different geographical locations **in 2004**.

		Percentage of total expenditures on R&D services	
3901	a. In your province/territory	<input type="text"/>	%
3902	b. In the rest of Canada	<input type="text"/>	%
3903	c. United States.....	<input type="text"/>	%
3904	d. Mexico	<input type="text"/>	%
3905	e. Europe	<input type="text"/>	%
3906	f. Asia Pacific.....	<input type="text"/>	%
3907	g. All other countries	<input type="text"/>	%
TOTAL		100	%

40. During the three years, **2002 to 2004**, was your plant a subcontractor to another firm(s) or organization(s)?

(Include other plants within your larger firm)

- 4000 1 Yes
 3 No ► *Please go to question 41*

If yes, please estimate (as best you can) the percentage of the total value of production of your plant that was generated through work carried out under subcontracting arrangements with another firm(s) or organization(s), during the three years, **2002 to 2004**.

	Year	Percentage
4001	a. 2004	<input type="text"/> %
4002	b. 2003	<input type="text"/> %
4003	c. 2002	<input type="text"/> %

Funding and support

41. During the last three years, **2002 to 2004**, did your plant receive external funding?

- 4100 1 Yes
 3 No ► *Please go to question 42*

If yes, please indicate which external sources provided funding for your plant during the three years, **2002 to 2004**.

		Yes	No
4101	a. Conventional sources (i.e. banks)	1 <input type="radio"/>	3 <input type="radio"/>
4102	b. Canadian based venture capital	1 <input type="radio"/>	3 <input type="radio"/>
4103	c. American based venture capital	1 <input type="radio"/>	3 <input type="radio"/>
4104	d. Venture capital from other countries	1 <input type="radio"/>	3 <input type="radio"/>
4105	e. Angel investors/family	1 <input type="radio"/>	3 <input type="radio"/>
4106	f. Private placement	1 <input type="radio"/>	3 <input type="radio"/>
4107	g. IPO (Initial Public Offering)	1 <input type="radio"/>	3 <input type="radio"/>
4108	h. SPO (Secondary Public Offering)	1 <input type="radio"/>	3 <input type="radio"/>
4109	i. Collaborative arrangements, alliances	1 <input type="radio"/>	3 <input type="radio"/>
4110	j. Other, please specify:	1 <input type="radio"/>	3 <input type="radio"/>

