Science and Technology Redesign Project



In all correspondence concerning this questionnaire, please quote this nine-digit reference number

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Si vous préférez ce questionnaire en français, veuillez appeler le bureau de Statistique Canada le plus près (voir à la page 15)

Please correct name and address, if necessary

Purpose

The information you provide is essential to assure the availability of pertinent information to monitor science and technology related activities and to support the development of science and technology policy.

Authority

Collected under authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Confidentiality

Statistics Canada is prohibited by law from publishing any statistics which would divulge information relating to any identifiable business without the previous written consent of that business. The data reported on this

questionnaire will be treated in strict confidence, used for statistical purposes, and published in aggregate form only. The confidentiality provision of the Statistics Act are not affected by either the Access to Information Act or by any other legislation.

Questions?

If you require assistance in the completion of this questionnaire or have any questions regarding this survey, please phone collect any Statistics Canada regional office listed on page 15.

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							Title	
Telephone N	Numb	er		 	 	 	Fax Number	

1. General information

Please report information for 1996 or the latest fiscal year available. Exclude GST and all other taxes collected by you for remittance to a government agency. Do not include operations of your subsidiaries located abroad.

		Year	Amount
1. Operating Revenue (\$000)		1	2
2. Exports to other countries (as % of ope	erating revenue)		4 %
3. Sales to other provinces (as % of oper			6 %
4. Number of employees (average for the			8
	a) Total		
	b) Full-time		10
	c) Part-time		12
	d) Contract		14
5. Number of employees, by level of educ Please provide your best estimate.			16
	a) University graduates		
	b) College graduates		18
	c) All other employees		20

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Canadä

Statistics Statistique Canada Canada



6.	Does your firm have a formal employee development (continuing education and training) program?		1 ()	Yes 💫	² () No
7.	If yes, what was your firm's total expenditure on education available).	and trair	ning i n 1996 (or the latest y	ear for which data are
	i) (\$000)		1		
	ii) or (% of operating revenue)		2		%
	iii) Year		3		
7a.	What was the cost of employee's time for participation in training	programs			
	i) (\$000)		1		
	ii) or (% of operating revenue)		2		%
	iii) Year		3		
8.	Does your firm plan to increase or decrease personnel developm	ient expei	nditures in the r	next year? Ple	ase check one for each
	of the following groups.		- Deeree	- No share	
		Increas	e Decreas	e No chan	ge Do not know
	a) _ All employees		2 ()	3 ()	4 ()
	b) University graduates		2 ()	3 ()	4 🔾
	c) College graduates		2 🔾	3 ()	4 🔘
	d) Other employees		2 ()	3 ()	4 ()
9.	Does your firm use the Internet?		1 ()	Yes ₃₅	² () No
10.	If yes, what percentage of your employees has access to Internet from their desks? <i>Please check one below.</i>	$\begin{array}{c}1\\2\\3\\\end{array}$	all employees 75% to 99% 50% to 74%	$\begin{array}{c} 4 \\ 5 \\ 6 \end{array}$)25% to 49%)10% to 24%)less than 10%
11.	If your firm uses Internet, do you use it		Yes	Nc)
	a) _ for e-mail		1 ()	² C)
	b) for searches on World Wide Web		3 🔾	4 ()
	c) _for selling, not just advertising, your goods and ser	/ices	5 ()	6)
12	Does your firm have a home page on World Wide Web?		1 ()	Yes	² 🔿 No
	Form of organization				
13.	Is the primary purpose of your firm to provide goods and services to your parent company, an affiliated company or a professional service firm?		1 ()	Yes	² 〇 No
14.	Is your firm a joint venture?		¹ ()	Yes	² () No
15.	Is your firm affiliated with a chain or franchise?		1 ()	Yes	² 🔿 No
16.	Is your firm member of a cooperative or consortium?		1 ()	Yes	² 🔿 No
17.			1	Year	
	a) When was your firm established		2		
	b) _ or ownership changed hands last				
18.	Please enter your nine-digit GST Registered Account Number		R		

2. Innovation

2A	Innovation Activity			
	Did your firm offer new or improved products (goods or services) to your customers during 1994-1996?		¹ ⊖ Yes २,	² 🔿 No
	If yes, please list the most important products (goods or services).			
20.	Did your firm introduce new or improved processes in your firm during 1994-1996 for the supply of products (goods or services)?		¹ ◯ Yes २३	² () No
	If yes, please list the most important processes :			
21.	Did your firm introduce any significant improvements in terms of organizational structure or internal business routines in 1994-1996?		¹ ◯ Yes २ु	² () No
	If yes, please list the most important improvements :			
	In answering questions 19 to 21, did you have difficulty distinguish	hing between: ((Please use information	sheet)
22.	new or improved products (question 19) and new or improved processes (question 20)?		¹ O Yes	² () No
23.	new processes (question 20) and organizational changes (question 21)?		¹ O Yes	² () No
24.	Did your firm undertake in 1996 activities (R&D, acquisition of technology, patents, trademarks, etc.) expected to result in the introduction of new or improved products and processes?	¹) yes	² 🔿 no	³ O do not know
25.	Did your firm undertake any innovation activity during 1994-1996 that did not result in the introduction of a new or improved product or process?	¹ O yes	₽⇒ ² ◯ no	³ 🔿 do not know
	If yes,			
	a) Is it because the innovation activity is ongoing?	¹ O yes	² () no	³ () do not know
	b) Is it because the innovation activity was abandoned?	¹ () yes	² () no	³ 🔿 do not know

			ovations (product, process and others) intra ased on your experience, and check box us			affect your	firm? Pleas	se assess	the follo
-	The	introduce	ed innovations have increased :						
				insignificant	slightly insignificant	moderately significant	very significant	crucial	not relevar
/	۹.	Producti	vity						
		i)	the productivity of your employees		² ()	³ O	4 ()	5 ()	6 (
		ii)	the motivation of your employees		² ()	³ ()	4 ()	5 ()	6 (
		iii)	the productivity of your customers	1 ()	2 🔿	3 🔿	4 🔾	5 🔿	6 (
E	В.	Product	or market expansion						
		i)	the range of goods and services provided to your clients		2 ()	3 ()	4 ()	5 ()	6 (
		ii)	the accessability to your goods and services over a wider geographic area		2 ()	3 ()	4 ()	5 🔿	6 🔿
		iii)	your customers' quality of life		2 ()	3 ()	4 🔾	5 🔿	⁶ C
(C.	Quality c	of Service your ability to adapt flexibly to different customer requirements	1 🔿	2 🔿	3 🔾	4 🔾	5 ()	6 С
		ii)	the speed of supplying and/or delivering your services	1 ()	2 ()	3 ()	4 🔿	5 🔿	⁶ C
		iii)	accessability of your services/products to your clients in terms of the number of hours	1 🔿	2 ()	3 🔿	4 🔿	5 🔿	⁶ C
		iv)	the user-friendliness of your services/products	1 ()	2 ()	3 🔿	4 🔿	5 🔿	⁶ C
		v)	the reliability of your services/products	1 ()	2 🔿	3 🔾	4 🔿	5 🔿	⁶ C
[D.	Environr	nental impact						
		i)	your ability to comply with safety requirements (technical regulations,data security, etc.)	1 🔿	2 🔿	3 🔾	4 🔿	5 🔿	6 🔾
		ii)	your ability to meet ecological, medical or ergonomic requirements	1 ()	2 ()	3 🔿	4 ()	5 🔿	6 🔾
		iii)	the serviceability, durability, or recyclability of your products		2 🔿	3 🔿	4 🔿	5 🔿	6
ł	E.		None of the above	1 🔿					
			luced innovations have replaced pre bods and services)	vious	¹ O yes	₹) 2 () no	³ () da	o not kno
a.	lf y	/es, did ir	nnovations introduced during 1994-1996 re	place					

	Quantitative	Impact		
28.	Please repo to:	rt (estimate as best as you can) in percentages your operating revenue	e for 1994-1996 or latest ye	ar available due
	a)	New products (goods and services)		
	b)	Significantly improved products (goods and services)		-
	c)	Unchanged or marginally changed products (goods and services)		-
	d)	Total operating revenue	100%	
	e)	The year for which data reported		
29.	Please repo	rt (estimate as best as you can) in percentages your exports for 1994-1	996 or the latest year availa	able due to
			[7
	a)	New products (goods or services)		_
	b)	Improved products (goods or services)		_
	c)	Unchanged or marginally changed products		-
	d)	Total exports	100%	-
	e)	The year for which data reported		
30.		ate how often your enterprise, on the average, introduce new products <i>k one box below.</i>	or processes.	
		More than three times a year		
		Three times a year	2 🔾	
		Twice a year	³ O	
		Once a year	4	
		Every second year	5 🔾	
		Every third year	⁶ 〇	
		More seldom than every third year		

2C Objectives of Innovation

31. Please indicate the importance of the following objectives of your firm's innovation activities during 1994-1996. Check one box for each item using the following scale:

			insignificant	slightly insignificant	moderately significant	very significant	crucial	not relevant
A.	Lower p	production costs by:						
	i)	reducing unit labour costs		² ()	³ 〇	4 ()	5 🔿	6 🔾
	ii)	cutting consumption of materials		² ()	³ 〇	4 ()	5 🔿	6 🔾
	iii)	cutting energy consumption		² ()	³ 〇	4 ()	5 🔿	6 🔾
	iv)	reducing product design costs		² ()	3 🔾	4 ()	5 ()	6 🔾
	V)	reducing production lead times		² ()	3 (4 🔿	5 🔿	6 🔾
	vi)	other means		² ()	3 ()	4 ()	5 🔿	6 🔾
В.	Replace	e products being phased out	1 ()	2 🔿	3 🔾	4 🔾	5 ()	6 (
C.	Extend	product range						
	i)	within main product field		² ()	³ 〇	4 ()	5 🔿	6 🔾
	ii)	outside main product field	1	2	3	4	5	6

		insignificant	slightly insignificant	moderately significant	very significant	crucial	not releva
D.	Maintain market share	1 ()	² ()	3 🔾	4 🔾	5 ()	⁶ C
E.	Increase market share	1 ()	² ()	³ ()	4 🔿	5 ()	6 (
F.	Open up new markets						
	i)new domestic target groups		² ()	³ ()	4 ()	5 ()	6
	ii) _European		² ()	³ ()	4 ()	⁵ ()	6
	iii) _USA	1 🔿	² ()	³ ()	4 🔿	5 🔿	6
	iv) Japan		² ()	³ ()	4 ()	⁵ ()	6
	 V) Other Pacific Rim (Hong Kong, Indones Malaysia, Singapore, South Korea, Taiwan, Thailand and the Philippines) 	sia, ¹ ()	2 🔿	³ ()	4	5 ()	6
	vi) other	¹ ()	2	³ ()	4 ()	5 ()	6
G.	Improve production flexibility	1 🔿	2 ()	3 ()	4	5 🔿	6
H.	Improve product quality	1 🔘	2 ()	³ ()	4	5 🔿	6
I.	Improve working conditions	1 🔿	2 ()	3 🔿	4 🔾	5 🔾	6
J.	Develop environmentally-friendly products	1 ()	2 ()	3 🔾	4 ()	5 ()	6 (
K.	Reduce environmental damage	1 ()	2 ()	3 ()	4 🔿	5 🔿	6 (
L.	Other objectives; please list below:						
	i)		² ()	³ ()	4 🔾	5 🔿	6 (
	ii)	1 ()	² ()	3 🔾	4 ()	5 ()	6 (
	iii)		2 ()	3 ()	4 ()	5 🔿	6
Sour	rces of Information for Innovation						
Plea	ease indicate the degree of importance attached to	o various sourc	es. Check	one box for	each item.		
		insignificant	slightly insignificant	moderately significant	very significant	crucial	no releva
A.	Sources internal to the enterprise:	1 ~	2 ~	3	4	5	6 -
A.	Sources internal to the enterprise: i) _In-house R&D	1	2	³ ()	4	5	6
A.			² () ² () ² ()	³ () ³ () ³ ()	4 4 4	⁵ () ⁵ () ⁵ ()	6 6 6

2

1

3 4

5

v) Other

6

Cont 32.		ase indi	cate the degree of importance attached to	o various so	urces. Che	ck one box	for each ite	em, using	the following
	300	ale.		insignificant	slightly insignificant	moderately significant	very significant	crucial	not relevant
	В.	Externa	al sources:						
		i)	Competitors in your line of business	1 ()	² ()	³ O	4 ()	5 🔿	6 🔾
		ii)	Acquisition of embodied technology equipment	1 ()	² ()	³ ()	4 ()	5 ()	6
		iii)	Clients or customers		² ()	³ ()	4 🔾	5 🔿	⁶ 〇
		iv)	Consultancy firms	1 ()	² ()	³ ()	4 ()	5 ()	6 🔾
		v)	Suppliers of equipment, material and components	1 🔿	2 🔿	3 🔿	4 🔾	5 🔿	6
	C.	Genera	Ily Available Information						
		i)	Government information programs		² ()	3 ()	4 ()	5 ()	6 🔾
		ii)	Fairs, exhibitions	1 ()	² ()	³ ()	4 🔿	5 ()	6 🔾
		iii)	Professional conferences, meetings, publications	1 ()	² ()	³ ()	4 🔾	5 🔿	6 🔾
		iv)	Gatherings of a social nature	1 ()	² ()	³ ()	4 🔿	⁵ ()	6 🔾
		v)	Patent literature	1 🔿	² ()	³ ()	4 🔿	5 🔿	6
	D.		ion and research institutions						
		i)	University and other higher educational institutions	1 ()	² ()	³ ()	4 🔾	5 ()	⁶ ()
		ii)	Government research institutions		² ()	³ ()	4 (5 🔿	6 🔾
		iii)	Private research institutions		2 ()	3 🔾	4 ()	5 ()	6 🔾
33.		erms of t	activities in the service sector often go hand the innovation activities undertaken by your ation and communication technologies:						
		i)	Software		¹) yes	2 S	🔿 no	³ O de	o not know
		ii)	Computers and related hardware		¹ O yes	²	🔿 no	³ O de	o not know
		iii)	High performance communication networ broadband, ISDN)	ks (e.g.,	¹ O yes	2 5	🔿 no	³ O de	o not know
		iv)	Media related technology, e.g. CD ROM		¹ O yes	2 S	🔿 no	³ O de	o not know
	B.	New de	evelopments in the area of:						
		i)	Transportation and traffic technology (e.g transmission technology, logistics)	I., vehicle,	¹ O yes	2 S	🔿 no	³ O de	o not know
		ii)	Measuring, control and steering technologation	gy,	¹) yes	2 S	🔿 no	³ O de	o not know
		iii)	Medical technology		¹) yes	2 S	🔿 no	³ O de	o not know
	C.	Biotech	nology or food technology						
		i)	Environmental technology		¹) yes	2 S	🔿 no	³ O de	o not know
		ii)	Material technology (e.g., plastics, constr materials, chemicals and light constructio technologies, new materials)		¹ O yes	2 5	🔿 no	³ O de	o not know
	D.	Other			¹ yes	²	no	³ de	o not know

2E Barriers to Innovation

34. Please indicate the degree of importance attached to various impediments by using the following scale:

			insignificant	slightly insignificant	moderately significant	very significant	crucial	not relevan
A.	Risk							
	i)	High risk related to the feasibility of innovative projects	1 🔿	² ()	³ ()	4 ()	5 ()	6 🔾
	ii)	High risk in terms of the innovation's market success		² ()	³ ()	4 ()	5 ()	6 ()
	iii)	Innovation easily copied by other companies		² ()	³ ()	4 🔾	5 ()	6 ()
B.	Cost							
	i)	Innovation cost difficult to predict	1 ()	² ()	³ ()	4 🔾	5 🔿	⁶ ()
	ii)	High cost of innovation projects	1 ()	² 〇	³ ()	4 🔿	5 ()	⁶ ()
	iii)	Long amortization period of innovations		2 ()	3 ()	4 ()	5 ()	6 🔾
C.	Availab	ility of Inputs						
	i)	Lack of equity capital for implementation of innovative projects	1 ()	² ()	³ ()	4 ()	5 ()	⁶ ()
	ii)	Lack of outside capital for implementation of innovation projects	1 ()	² ()	³ ()	4 🔾	5 🔿	⁶ ()
	iii)	Lack of qualified personnel for innovation projects	1 ()	² ()	³ ()	4 ()	5 🔿	⁶ ()
	iv)	Lack of technical equipment for innovatior projects	י ₁	² ()	³ ()	4 🔿	5 ()	6 🔾
D.	i)	ate Style Internal resistance to innovation Long administrative/approval process for	1	2 🔿	3 ()	4 🔾	5 🔾	6 🔿
	ii)		1 🔿	2	3	4	5 🔿	6
	·	innovation projects	1 🔿	2 ()	3 ()	4 🔾	5 🔿	6 🔾
E.	יו) Others	innovation projects	1 🔿	2 ()	3 🔾	4	5 🔿	6
E.	·	innovation projects Innovation technologies not yet sufficiently well developed		² () ² ()	³ () ³ ()	4	⁵ () ⁵ ()	66
E.	Others	Innovation technologies not yet sufficiently						
E.	Others i)	Innovation technologies not yet sufficiently well developed Legislation, legal regulations affecting	/ 1 ₀	2 🔿	³ ()	4	5 🔾	6 ()
E.	Others i) ii)	Innovation technologies not yet sufficiently well developed Legislation, legal regulations affecting innovations Innovations or innovation activities were not required because they were undertaken by associated companies (e.g	/ 1 ₀	² () ² ()	³ () ³ ()	4	⁵ () ⁵ ()	66
E.	Others i) ii) iii)	Innovation technologies not yet sufficiently well developed Legislation, legal regulations affecting innovations Innovations or innovation activities were not required because they were undertaken by associated companies (e.g parent or subsidiary) Innovations or innovation activities were not required because of your company's	/ 1 1 - 1	² () ² () ² ()	³ () ³ () ³ ()	4	⁵ () ⁵ ()	66
	Others i) ii) iii)	Innovation technologies not yet sufficiently well developed Legislation, legal regulations affecting innovations Innovations or innovation activities were not required because they were undertaken by associated companies (e.g parent or subsidiary) Innovations or innovation activities were not required because of your company's market position	/ 1 1 - 1	² () ² () ² ()	³ () ³ () ³ ()	4	⁵ () ⁵ ()	66

2F	Expenditures on	Innovation
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35. This section attempts to obtain your **best estimate** of your firm's expenditure (\$'000) on innovation activities for the latest year for which you can provide the data.

		1
a)	Intramural R&D (excluding R&D performed for other units)	
		2
b)	Extramural R&D	
		3
c)	Tooling up, industrial engineering and production startup	
		4
d)	Training linked to innovation	
		5
e)	Marketing for new or improved products	
f)	Gross investment (including associated software) directly linked to introduction of new products	6

2G The most important innovatior

6.	For the innovations listed in Section 2A, Questions 19 to 21, please provide below a brief description innovation defined by its contribution to operating revenue during 1994-1996:	ption of your most importa
6.	a) Did you find it difficult to decide on the most important ¹ O Yes Po	² () No
	b) If yes, please describe why	
7.	The novelty of this innovation lies in: (please check applicable item; you may check more than one item)	
	a) Use of new materials	
	b) Use of new intermediate products	2
	c) New functional parts	3 🔾
	d) Use of radically new technology	4
	e) Fundamental new functions	5 🔵
	f) New production techniques	6
	g) New organizational innovations with regard to the introduction of new technologies	7 🔘
	h) New professional software developed by or specifically for you	8 🔘
	i) Other	9 O
3.	Please list the main industries and countries that were the main supplier(s) of ideas for this innovation	on:
	Industry Name Country	
	1 2	

4

6

8

3

5

7

39.	How long did it take to commercialize this innovation from the time your firm first invested significant human or capital resources in it?			months
40.	Please list the main customers for the new good (product or ser	vice):		
	Industry Name		Country	
	1	5		
	2	6		
	3	7		
	4	8		
41.	Was this innovation:			
	a) a world first?	¹ O yes	² () no	³ O do not know
	b) if not, was it a Canadian first?	¹ O yes	² () no	³ O do not know
	c) <u>a local market first?</u>	¹) yes	² () no	³ O do not know
41a.	If not a world first, do you know in what country it was first introduced?		1	
		a) <u>Country na</u>	me	
		b) Do not know	N ² ()	
42.	How long after this innovation was introduced elsewhere did your firm adopt it?			
				months
43.	Companies often pursue innovation projects in cooperation with other companies or public institutions. Here, we specifically mean cooperative ventures where both partners, in contrast to pure contract research, actively pursue joint innovative projects. Was your enterprise involved in such cooperative ventures in 1996?		¹ ⊖ Yes ३	² () No
43a.	If yes in what type of cooperation were partners involved, and fr Please check the appropriate box.	om where did they	come?	
	a) Customers from manufacturing			1 ()
	b) Customers from the service sector			2 🔘
	c) _Suppliers			3 🔾
	d) Competitor companies in the same line of business			4 🔾
	e) Associated companies, companies within your corpora	te group		5 🔘
	f) Consulting and marketing firms, private research institu	utions		6
	g) Universities, technical colleges, professionals, academ	ics		7 🔿
	h) Other public research institutions			8 🔾
	i) Other <i>(please specify)</i>			9 O
	j)			10 🔿
	k)			11 ()
				12
	l)			

4. Please indicate the effect of this innovation on the number of workers in your firm.									
Worker Group	Decrease	Increase	No Change						
a) Production workers	1	2 🔾	3 ()						
b) Non-production workers	1 ()	2 ()	3 ()						
c) <u>Overall</u>	1 ()	2 🔾	3 🔾						
45. Please indicate how the skill requirement	ts of your workers were changed as a res	ult of this innovation	?						
	Decrease	Increase	No Change						
a) University graduates	1	2 🔿	3 🔾						
b) College graduates	1	2 🔾	3 🔾						

c) Others	1	2 🔾	3 (
d) <u>Overall</u>	1	2 ()	3 🔾

1.	Did your firm engage in R&D activities in 1994-1996?	¹ O yes	² 🔿 no
2.	Does your firm engage in R&D on a continuous or occasional basis?	1 \bigcirc continuous	² O occasional
3.	Did your firm have any co-operation arrangements on R&D activities with other enterprises or institutions in 1994-1996?	1 \bigcirc yes	² () no
4.	Did your firm engage in alliances for R&D purposes with other firms or organizations in 1994-1996?	¹ ⊖ yes _{₹>}	² O no
5.	If yes, please check the type of organizations and country of partner.		
		Canada	Abroad
	a) Clients/customers	1 ()	12
	b) _Suppliers	2 ()	13
	c) Competitors	³ O	14
	d) Joint ventures	4 🔾	15
	e) Consultants	5 🔿	16
	f) Other firms within group	⁶ ()	17
	g) Other firms	7 🔿	18
	h) _ Government laboratories	8 ()	19
	i) Universities	⁹ ()	20 🔿
	j) _Other <i>(please specify)</i>	10 🔘	21
		11 🔘	22

4. Intellectual property

	Number of usages (where relevant)							
		None	1 to \$	5 61	to 20	21 to 100	100 +	
a)	Copyrights		² C) 3	0	4 ()	⁵ C	
b)	Patents	1 ()	2 () 3	0	4 ()	⁵ C	
c)	Industrial design	1 ()	2 () 3	\bigcirc	4 ()	⁵ C	
d)	Trade secrets	1 ()	2 () 3	0	4 ()	⁵ C	
e)	Trademarks	1 ()	2 () 3	0	4 ()	⁵ C	
f)	Integrated circuit designs (semi conductor chips)	1 ()	2 () 3	0	4 ()	⁵ C	
g)	Plant breeders rights(plant variety rights)	1 ()	2) 3	\bigcirc	4 🔿	⁵ C	
h)	Other	1 ()	2) 3	0	4 🔿	⁵ C	
ntelle	ectual property rights associated with:	not at all effective	somewhat effective	effective	very effective	extremely effective		
	ectual property rights associated with: Copyrights			effective	very effective		relev	
		effective	effective		effective	effective	relev ⁶ (
a)	Copyrights		effective	3 ()	effective	effective	relev ⁶ (
a) b)	Copyrights Patents		effective	³ ()	effective	effective 5 5	relev 6 (6 (
a) b) c)	Copyrights Patents Industrial designs		effective 22 22 22	³ () ³ () ³ ()	4 () 4 () 4 ()	effective 5 5 5	6 (
a) b) c) d)	Copyrights Patents Industrial designs Trade secrets		effective 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	³ () ³ () ³ ()	effective	effective 5 5 5 5 5 5 5 5 5 5 5 5 5	6 6 6 6 6 6 6 6	
a) b) c) d) e)	Copyrights Patents Industrial designs Trade secrets Trademarks		effective 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	³ () ³ () ³ () ³ ()	effective	effective 5 5 5 5 5 5 5 5 5 5 5 5 5	6 6 6 6 6 6 6 6 6 6 6	
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a) b) c) d) e) f) g)	Copyrights Patents Industrial designs Trade secrets Trademarks Integrated circuit designs Plant breeders' rights Other	effective	effective 2 2 2 2 2 2 2 2 2 2 2 2 2	³ () ³ () ³ () ³ () ³ () ³ () ³ ()	effective	effective 5 5 5 5 5 5 5 5 5 5 5 5 5	6 6 6 6 6 6 6 6 6 6 6	
 a) b) c) d) e) f) g) h) 	Copyrights Patents Industrial designs Trade secrets Trademarks Integrated circuit designs Plant breeders' rights Other Other Strategies	effective	effective 2 2 2 2 2 2 2 2 2 2 2 2 2	³ () ³ () ³ () ³ () ³ () ³ () ³ () ³ ()	effective	effective 5 5 5 5 5 5 5 5 5 5 5 5 5	6 6	
 a) b) c) d) e) f) g) h) i) 	Copyrights Patents Industrial designs Trade secrets Trademarks Integrated circuit designs Plant breeders' rights Other Other Strategies Complexity of product design	effective	effective 2 2 2 2 2 2 2 2 2 2 2 2 2	³ () ³ () ³ () ³ () ³ () ³ () ³ () ³ () ³ () ³ ()	effective	effective 5 5 5 5 5 5 5 5 5 5 5 5 5	6 (6 (

4. Please indicate the type and direction of such intellectual property transfer by checking the appropriate boxes.

		Assigne	Assigned right(s) to		ight(s) from
		Canadian firms	foreign firms	Canadian firms	foreign firms
a) <u>Co</u>	opyrights	1 ()	2 ()	3 🔾	4 🔿
b) <u>P</u> a	atents	1 ()	2 🔾	³ ()	4 ()
c) <u>In</u>	dustrial designs	1 ()	2 ()	3 ()	4 ()
d) <u>Tr</u>	rade secrets	1 ()	2 ()	³ 〇	4 ()
e) <u>T</u> r	rademarks	1 🔿	2 🔾	3 ()	4 🔾
f) <u>In</u> t	tegrated circuit designs	1 ()	2 ()	³ 〇	4 🔿
g) <u>Pl</u>	an breeder's rights	1 ()	² ()	3 🔿	4 🔾
h) <u>O</u> t	ther	1 🔿	2 🔿	3 🔿	4 🔿

5. Competitive environment

1. For the industry in which your firm operates, how strongly do you agree or disagree with each of the following statements? Please indicate your opinion by using the following scale where 1 is strongly disagree and 5 is strongly agree:

		disa	gree	neutral agree		ree	not applicable
		1	2	3	4	5	6
a)	Consumer demand is easy to predict	¹ ()	² ()	³ ()	4 ()	⁵ ()	⁶ 〇
b)	Consumers can easily substitute among competitive product	¹ ()	2 ()	³ ()	4 🔿	5 🔿	6 🔾
c)	Competitors' actions are easy to predict		2 ()	3 ()	4 🔾	5 🔾	6 🔾
d)	Competitors can easily substitute among suppliers		2 ()	3 ()	4 (5 🔿	6 🔾
e)	The arrival of new competitors is a constant threat		² ()	³ ()	4 ()	5 ()	6 🔾
f)	Products quickly become obsolete		² ()	3 🔾	4 ()	5 🔿	⁶ 〇
g)	Production technology changes rapidly		² ()	³ ()	4 🔾	5 🔿	⁶ 〇
h)	Liquidation value of machinery and equipment is well below purchase cost		2 ()	³ ()	4 🔾	5 🔿	6 🔾

2. For the industry in which your firm operates, rate the intensity of competition among firms in the following areas, using the scale of 1 to 6, with 1 for low and 5 for high, 6 for not applicable :

		competition					not
		low 1	2	3	4	high 5	applicable
a)	Price		² ()	³ ()	4 ()	5 🔿	6 🔾
b)	Flexibility in responding to customer needs		² ()	³ ()	4 🔾	5 🔿	6 🔾
c)	Quality		² ()	³ ()	4 🔾	⁵ ()	6 🔾
d)	Customer service		² ()	³ ()	4 ()	5 ()	6 🔾
e)	Customization of products		2 ()	³ ()	4 ()	5 🔿	6 🔾
f)	Offering a wide range of related products		² ()	³ ()	4 🔾	5 🔾	6 🔾
g)	Frequently introducing new/improved products	1	2	3	4	5	6

					importance			
			1	2	3	4	5	not applica
Technolo	gy a	and R&D						
	a)	Protecting products/processes with intellectual property rights (patents, trademarks, etc.)	1 🔿	² ()	³ ()	4 🔾	5 🔿	6 (
	b)	R&D capabilities	1 ()	² ()	³ ()	4 🔾	5 🔿	⁶ C
	c)	Purchasing other technology	1 ()	² ()	³ ()	4 ()	5 ()	⁶ C
	d)	Developing new/refining existing technology	1 🔿	2 ()	3 ()	4 ()	5 ()	6 (
Managem	nent	t						
	a) _	Consensus decision-making	1 ()	² ()	³ 〇	4 (5 🔾	⁶ C
	b) _	Delegating decision making	1 ()	² ()	3 (4 (5 🔾	⁶ C
	c)	Using information technology	1 🔾	² ()	³ ()	4 (5 🔾	⁶ C
	d)	Continuous quality improvement	1 ()	² ()	³ ()	4 (5 ()	⁶ C
Productio	'n							
	a) _	Using high quality suppliers	1 ()	² ()	3 (4 (5 🔾	6 (
	b)	Using computer controlled processes	1 🔿	² 〇	³ 〇	4 🔾	5 🔾	6
	c)	Reducing production times		² ()	³ 〇	4 ()	5 ()	6 (
	d)	Improving efficiency of input (materials or services) use	1 🔿	2 🔾	³ 〇	4 🔾	5 🔾	6 (
Marketing	J							
	a)	Using third party distributors	1 ()	2 ()	3 ()	4 (5 ()	6 (
	b) _	Promoting company or product reputation	1 ()	² ()	³ ()	4 🔾	5 🔾	6
	c)	Satisfying existing customers	1 ()	² ()	3 ()	4 (5 ()	6 (
	d)	Improving position in existing markets	1 ()	² ()	³ ()	4 (5 🔾	6 (
	e)	Targeting new foreign markets		² ()	3 🔾	4 (5 ()	6
	f)	Targeting new domestic markets	1 ()	² ()	3 🔾	4 (5 🔾	6 (
Financing	r							
-	a)	Flexibility in meeting unforeseen circumstances	1 ()	2 🔿	3 ()	4 (5 ()	6
	b)	Financial management (costs, cashflow)	1 ()	² ()	³ 〇	4 ()	5 🔾	6 (
	c)	Finding/maintaining capital	1 ()	² ()	3 ()	4 (5 🔾	6 (
Human R	eso	urces						
	a)	Providing incentive compensation plans	1 ()	² ()	3 (4 🔾	5 🔾	6 (
	b)	Recruiting skilled employees	1 ()	² ()	³ ()	4 🔾	5 🔾	6 (
	c)	Training	¹ ()	² ()	3	4	⁵ ()	⁶ C

4. Ra an	Rate the importance of each of the following factors to your firm's competitive strategy, using the scale of 1 to 6, with 1 for low and 5 for high, 6 for not applicable :									
		importance not								
		1	2	3	4	5	applicable			
	a) <u>Price</u>	1 ()	2 ()	3 ()	4 ()	5 🔿	6 🔾			
	b) Flexibility in responding to customer needs	1 🔾	² ()	³ 〇	4 (5 🔾	6 🔾			
	c) Quality	1 🔿	² ()	³ ()	4 (5 🔾	6 🔾			
	d) Customer service	1 🔿	² ()	³ 〇	4 ()	5 🔾	6			
	e) Customization of products	1 ()	2 🔿	³ 〇	4 🔾	5 🔿	6			
	f) Offering a wide range of related products	1 ()	² ()	³ 〇	4 ()	5 🔿	6 🔾			
	g) Frequently introducing new/improved products	1 ()	² ()	3 ()	4 ()	5 ()	6 🔾			

Comments	

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Thank you for your co-operation