

Innovation in Companies Survey 2010

Modifications in identification particulars (Complete only those sections subject to variation)

Name or corporate name of the company

NIF

Registered address (street, square, avenue ...)

Postal code

Municipality

Details of the person to be contacted, if necessary, for queries, clarifications or modifications regarding this questionnaire.

Mr./Ms.: _____

Nature, characteristics and purpose

___Fax: ___

Post held in the company: ___

The Survey is included in the General plan for statistics on science and technology promoted by the Statistical Office of the European Communities (Eurostat). The objective of the survey is to quantify the **innovative activities** of companies, among which, of particular note is the **performance of R&D**, and to evaluate the results (innovations) and effects of such activities.

Legislation

Compulsory statistics

Statistical Secrecy

Telephone: ___ E-mail: _____

Company website

The personal information obtained by the statistical services, both directly from the informants and from administrative sources, will be subject to protection, and are covered by **statistical secrecy** (art. 13.1 of the Law on Public Statistical Services, of 9 May 1989, LFEP). All statistical personnel will be obliged to maintain statistical secrecy (art. 17.1 of the LFEP).

Obligation to provide data

Laws 4/1990 and 13/1996 establish the obligation to provide the data that is requested for the compilation of these Statistics.

The statistical services may request data from all individuals and legal entities, both Spanish and foreign, resident in Spain (Article 10.1 of the

All individuals and legal entities that provide data, regardless of whether their collaboration is compulsory or voluntary, must respond in a true, exact and comprehensive manner within the stipulated deadline to the questions outlined in due form by the statistical services (art. 10.2 of the LFEP).

Failure to comply with the obligations envisaged in this Law, as related to statistics for state purposes, will be sanctioned in compliance with the terms established in the regulations contained in this Heading (art 48.1 of the LFEP).

Very serious infringements will be sanctioned with fines ranging from 3,005.07 to 30,050.61 €. Serious infringements will be sanctioned with fines of 300.52 to 3,005.06 €. Minor infringements will be sanctioned with fines from 60.10 to 300.51 € (art. 51.1, 51.2 and 51.3 of the LFEP).

Note: This questionnaire is available in the different co-official languages of the Autonomous Communities.

General instructions

Information unit: the information that is requested in this questionnaire refers to the **company**. A company is considered to be any legal entity that constitutes an organisational unit that produces goods and services, and that enjoys a certain autonomy in decision-making, mainly at the time of using the available current resources. From a practical point of view, and in its more general definition, the concept of company is defined as a legal or juridical unit, that is, all individuals or legal entities (companies, cooperatives, etc.) whose activity is recognised by Law, and which are identified by their corresponding Fiscal Identification Number (NIF).

Reference period: the data must refer to the year 2010, except in the question that requests information regarding a different period.

Structure of the questionnaire: the questionnaire is comprised of ten sections:

- A. General company information.
- B. Internal R&D activities in 2010.
- C. Purchase of R&D services in 2010.
- D. Activities for technological innovation performed by the company in 2010.
- E. Innovation of products and processes during the 2008-2010 period.
- F. Factors that hinder the innovation activities during the 2008-2010 period.
- G. Intellectual and industrial property rights.
- H. Income from and payments for eliminated technology in 2010.
- I. Organisational innovations during the 2008-2010 period.
- J. Commercialisation innovations during the 2008-2010 period.
- K. Tax deductions for R&D and innovation.

Form of recording the data: write down data clearly. Do not write in the shaded areas. The financial data is requested in euros, without including VAT.

Consignment term: this questionnaire, duly completed with the required information, must be returned within a period not exceeding 15 days.

In this questionnaire, the term product is used to designate both goods and services.

A. General company information

Main activity: that which generates the greatest added value, or failing this, the gr	reatest turnover.
Description:	
Indicate, in order of importance, the main products resulting from this activity:	CNAE-2009
1.	
2.	
A.2 Incidents during the 2008-2010 period	
During the 2008-2010 period, have any of the following changes taken place in the com	pany? YES NO
1. The company was newly created	
2. Turnover increased by at least 10%, due to a merger with another company	
3. Turnover decreased by at least 10%, due to the sale or closing of the company	
A.3 Type of company (Mark the corresponding box with an "X")	
1. Public	
2. Private without foreign participation	
3. Private with a participation of <10% of foreign capital	
4. Private with a participation of ≥10% and <50% of foreign capital	
5. Private with a participation of ≥50% of foreign capital 6. Research association and other research institutions	
A.4 Is the company a part of a group of companies?	
YES \bigcirc NO \bigcirc \Rightarrow Go to qu	estion A.5
What is the complete name of the group, or failing this, of the parent company?	
What is the central headquarters of the group? (Write down the name of the count	ry)
What is the relationship of the company with the group?	

A.5 Year of creation of the company			
1. Please indicate the year of creation of the			
A.6 Is the company located in a Scientific or Techn	ological Estate?		
YES \square NO \square \Rightarrow	Go to question A.7		
 What is the complete name of the Scientific or Technological Estate? What date did the company join the Scientific or Technological Estate? 			
a.7 Economic results			
ne total commercial sales of goods and services, including exports and ta credit institutions, the interest to be charged and similar income. For gned.			
	Year 2010 (€ without decimals)	Year 2008 (€ without decin	nals)
Turnover			
Of turnover, indicate the total sales to European Union, TA or EU candidate countries Of turnover, indicate the total exports (excluding 1.1)			
Gross investment in material goods			
8 Average number of employees			
	Year 2010	Year 2008	
Paid staff Of the previous figure, indicate how many of them have higher education		-	
Unpaid staff	_		
TOTAL (1+2)		_	-
Of the total staff, indicate the % of women	%		%
Would you consider it necessary to increase the staff of the company?			
O YES > Indicate by how many persons			
.9 In what geographic market did the company sell eriod? (Mark all of the markets in which the company operates)	goods or services du	ring the 2008	3-201
		YES	NO
Local / Autonomous market			
National market			
Other countries of the European Union (EU), EFTA countries or EU* candida	ate		
All remaining countries			
This includes the following countries: Germany, Austria, Belgium, Bulgaria, Croance, Greece, Hungary, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Lited Kingdom, Czech Republic, Romania, Sweden, Switzerland and Turkey.			
.10 Activities based on biological sciences and techn	ologies in 2010		
otechnology is the application of science and technology to living organ rder to alter living or inert material, for the purpose of producing knowled	isms, as well as to their parts	, products or mod	dels, in
	YE N	O	cont

Does the company perform any activity based on sciences and technologies applied to living organisms or to compounds obtained from these, in order to acquire knowledge or products of value? (This includes bio-computing and nano/micro-manufacturing)

	es dedicated to activenent (FTE) is the sum		-		time that the part-time staff works on
activities based on bi					
	Staff		Staff on FTE	(1 decimal)	Total expenses (€ without decimals)
Resources used:	Total	Women	Total	Women	_
	-	_		·	
A.11 Activition	es for Large S	Scientific a	nd Techno	logical Insta	llations
totally or partially international (such	open to use by	the entire scien ators, synchotro	tific-technologic n light sources,	al and industrial	ng-edge science. Said facilities are community, whether domestic or centres, astronomy observatories,
1. Does your compar	ny carry out any activ	ity for Spanish La	rge Scientific and	l Technological Insta	allations? YES NO
2. Does your compar	ny carry out any activ	ity for internation	al Large Scientifi	and Technological	Installations? YES NO
A.12 Activition	es for moder	nising Adm	ninistration	1	
	ernising Administra			ntracted for moder	rnisation of Public Administrations
Does your compar		•		?	YES NO
,		·			
-			s whose main	activity is the pe	rformance of R&D activities, research
associations and tec					
Indicate the main activ	ity of the company/c	ompanies that bei	nefit from their R	&D activities	
Description:					CNAE-2009
	ledge in order to co annex at the end of	nceive new appli the questionnai	ications, such as re).	new or significant	matically for the purpose of increasing ly improved products (goods/services) 10?
	¥ES	INC)	to section C	
Continuously	Occasio	nally	Mark on	ly one option	
B.1.1 Brief desc B.2 Organisat	•		·	•	
Indicate the units of t			•	-	
	. ,	mod out meoma			lonartment
Specific R&D depart Design department	inent of laboratory			5. Quality control d	
Design department Production department				6. Marketing depar	unent
Production department Technical department				7. IT department	nts (specify)
4. Technical departmen	nt			8. Other departmen	nts (specify)
B.3 Staff dedica		n of the staff tha		<u> </u>	ion s of time that the part-time staff works

Occupation

FTE (1 decimal)

Persons

	Total	Won	nen To	otal	Wo	men
Researchers (including the staff that directs, plans and/or coordinates tasks, as well as interns, in research)						
2. Technicians						
3. Assistants						
TOTAL (1+2+3)				•		•
B. Contracting of external consultancy for carrying out internal R&Does the company have external consultants working on site in order to carry out internal R&D activities? 1. Of the TOTAL NUMBER of PERSONS above, please indicate the external confor in A.8) 2. Of the TOTAL NUMBER OF FTE above, please indicate the external conformal R&D activities in 201 Qualification	sultants workinnsultants 0, by qual	YES ng on sit				on FTE
1. University doctorates) '		Women
2. University graduates, architects, engineers and the like		•				Women .
, , , , , , , , , , , , , , , , , , , ,			·	_	<u>.</u>	Women .
University diplomas, technical architects and engineers and the like	_	· ·	· ·		· · ·	Women .
		· ·	· ·		· · ·	Women .
University diplomas, technical architects and engineers and the like		· · ·	· · · · · · · · · · · · · · · · · · ·		·	Women
3. University diplomas, technical architects and engineers and the like 4. Advanced training cycles (Specific professional training)		· ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · ·	Women

B.5 Distribution of the staff in R&D by the Autonomous Communities in which the company carries out internal R&D activities

Autonomous Community	Staff in F	R&D	Staff in R on FTE (1		Research	hers	Research FTE (1 de	
	Total	Women	Total	Women	Total	Women	Total	Women
1. Andalucía					<u> </u>			
2. Aragón					_			
3. Asturias (Principado de)								
4. Balears (Illes)								
5. Canarias					<u> </u>			
6. Cantabria					<u> </u>			
7. Castilla y León					_			
8. Castilla-La Mancha								
9. Cataluña								
10. Comunitat Valenciana					_			
11. Extremadura								
12. Galicia								
13. Madrid (Comunidad de)					<u> </u>			
14. Murcia (Región de)								
15. Navarra (Comunidad Foral de)								
16. País Vasco								
17. Rioja (La)								
18. Ceuta								
19. Melilla								
TOTAL (this should coincide with B.3)					_			
 Remunerations of technicians and as Other current expenses (without VA) Of the figure above, please independent of the consultancy working at the standard current expenses on R&D Equipment and instruments (without Land and buildings (without VAT) Acquisition of specific software for F 	T or amortis licate the to site for carr (1+2+3) t VAT)	eations) otal expenditur rying out inter		-	g external A	\		
		ng licences)			В	-		
B. Total capital expenses on R&D	(1 TJ†U)							
C. TOTAL (A+B)					C	;		
B.7 Research grants								
Estimate the total value of the grant the type of grant and of the organis question B.6.								
1. Research grants						Value (€ w	vithout deci	mals)
B.8 Distribution of current	expendi	ture on int	ternal R8	D activitie	es in 20°	10, by typ	e of res	earch
Breakdown, as a percentage, of the (Do not write decimals, and check the	e CURREN	T internal exp	enses on R	&D from B.6.	A , accordi	ng to the foll	lowing clas	
1. Fundamental or basic research								<u> </u>
2. Applied research								%

3. Technological development

TOTAL .	1	0	0	%

B.9 Financing of the expenses on internal R&D in 2010

Resources foreseen for 2010

Breakdown of the total internal expenses on R&D from question B.6.C, according to the original source of the funds received for R&D. In the case of public funds for carrying out R&D, we must distinguish between subsidies (including non-refundable loans) and contracts (and purchases) with the Administration. Refundable loans for carrying out R&D obtained from both the Administration and other sources, shall be included as their own funds. In the case of research associations and companies in R&D at the service of other company/companies, the institutional quotas received, by which they are financed (and that are not specific R&D orders) must be included in their own funds

Source of the funds	Value 10	
	value (€	without decimals)
A. Financing by the company itself		
- Loans- Other funds of its own (including quotas of an institutional nature)	_	
	1	
B. Financing from other Spanish companies	_	
- From companies in their same group		
- From other public companies		
- From other private companies and research associations	4	
C. Public financing	_	
- Subsidies from the State Central Administration		
- Contracts with the State Central Administration	6	
- Subsidies from the Autonomous and Local Administrations	7	
- Contracts with the Autonomous and Local Administrations	8	
D. Other national sources		
- From universities	9	
- From private, non-profit institutions	10	
E. Foreign funds		
- From foreign companies in their same group	11	
- From other companies	12	
- From European Union programmes	13	
- From foreign Public Administrations	14	
- From foreign universities	15	
- From foreign, private, non-profit institutions	16	
- From other international organisations	17	
TOTAL (this must coincide with B.6.C)		
TOTAL (this must coincide with B.6.C) B.10 Distribution of expenditure on internal R&D activities is Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the control of the control o	ne company carried out in 2010, a	ccording to the socio-
Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities is Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the supportation and exploitation of the land media and of the atmosphere	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the supportation and exploitation of the land media and of the atmosphere 2. Control and protection of the environment	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the seconomic and exploitation of the land media and of the atmosphere 2. Control and protection of the environment 3. Exploration and exploitation of space	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research.)	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research.)	ne company carried out in 2010, a	ccording to the socio-
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research. (Do not write decimals, and check the seconomic objective or purpose of the research.)	ne company carried out in 2010, a	ccording to the socio-).
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B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose or	ne company carried out in 2010, a	ccording to the socio-).
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B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic of the eco	ne company carried out in 2010, a	ccording to the socio-).
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research and of the atmosphere 1. Exploration and exploitation of the land media and of the atmosphere 2. Control and protection of the environment 3. Exploration and exploitation of space 4.1 Transport and telecommunications systems 4.2 Other infrastructure 5. Production, distribution and rational use of energy 6. Industrial production and technology 7. Protection and improvement of human health 8. Development of agriculture. livestock breeding. forestry and fishing 9. Education 10. Culture, leisure, religion and the media 11. Political and social systems, structures and processes 12. Non-oriented research 13. Defence	ne company carried out in 2010, a	ccording to the socio-).
B.10 Distribution of expenditure on internal R&D activities Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose of the research. (Do not write decimals, and check the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic objective or purpose or R&D from B.6.C that the economic of the eco	ne company carried out in 2010, a	ccording to the socio-).

C. Purchase of R&D services in 2010

These are those motivated by the acquisition of R&D services outside the company by means of contract, agreement, etc. . This excludes institutional quotas for financing other companies, research associations, etc. that do not imply a direct purchase of R&D.

A D I (DOD : : O : / :// .VAT)	-	/alue (€	Withou	t accimaic,	
A. Purchase of R&D services in Spain (without VAT)					
- From companies in the same group					
- From other companies					
- From research associations					
- From Public Administration bodies					
- From universities					
- From private, non-profit institutions	6 _				
B. Purchase of R&D services abroad (without taxes)					
- From foreign companies in the same group					
- From other foreign companies					
- From foreign Public Administration bodies	9				-
- From foreign universities	10				
- From foreign, private, non-profit institutions	11_				
- From other international organisations	12				
C. Total purchase of R&D services, (external R&D) (sum from 1 to 12)					
of the questionnaire). Changes of an aesthetic nature, the mere sale of innovations produced completely by other compa or management, must not be included. They shall be specified in section I or in section J.		d simple			nisation
or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure)	novation the property that the property is not the property that the property is not the property that the property is not the property in the property in the property is not the property in the property in the property is not the property in the property in the property is not the property in the property in the property is not the property in	ourpo: sciei	se of	achievir echnolo ^{Value} (€	ng new
operates. This section requests information regarding those activities conducive to obtaining technological in D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, based on the company performance of the following activities or significantly improved products (goods or services) or processes, based on the company performance of the following activities or significantly improved products (goods or services) or processes, based on the company performance of the following activities or significantly improved products (goods or services) or processes, based on the following activities or significantly improved products (goods or services) or processes, based on the following activities or significantly improved products (goods or services) or processes, based on the following activities or significantly improved products (goods or services) or processes, based on the following activities or significantly improved products (goods or services) or processes, based on the following activities or significantly improved products (goods or services) or processes, based on the following activities or services	novatio r the p sed or	ourpo:	se of	achievir echnolo _{Value}	ng new gy and
This section requests information regarding those activities conducive to obtaining technological in D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure Activities for technological innovation	novation representation of the property of the	ourpo: sciei	se of nce, t	achievir echnolo ^{Value} (€	ng new gy and
D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure.) Activities for technological innovation A. Internal R&D (This must coincide with question B.6.C) B. Acquisition of R&D (external R&D) (This must coincide with the total from section C) The same activities as those indicated above, but carried out by other organisations (including those from the same group) or public or private research bodies, and purchased by the company. C. Acquisition of machinery, equipment and advanced hardware or software aimed at the production of	novation representation in the presentation in	ourpo: sciei	se of nce, t → A.	achievir echnolo ^{Value} (€	ng new gy and
D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure.) Activities for technological innovation B. Acquisition of R&D (external R&D) (This must coincide with the total from section C) The same activities as those indicated above, but carried out by other organisations (including those from the same group) or public or private research bodies, and purchased by the company. C. Acquisition of machinery, equipment and advanced hardware or software aimed at the production of new or significantly improved products or processes (not included in R&D) question B.6.B). D. Acquisition of other external knowledge for innovation (not included in R&D) Purchase or use, under licence, of patents or of non-patented inventions and technical or other knowledge from other companies or organisations, to use in the innovations of the company.	NO NO	ourpo: sciei	se of nce, t $\rightarrow A.$ $\rightarrow B.$ $\rightarrow C.$	achievir echnolo ^{Value} (€	ng new gy and
D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure.) Activities for technological innovation B. Acquisition of R&D (external R&D) (This must coincide with the total from section C) The same activities as those indicated above, but carried out by other organisations (including those from the same group) or public or private research bodies, and purchased by the company. C. Acquisition of machinery, equipment and advanced hardware or software aimed at the production of new or significantly improved products or processes (not included in R&D) question B.6.B). D. Acquisition of other external knowledge for innovation (not included in R&D) Purchase or use, under licence, of patents or of non-patented inventions and technical or other knowledge from other companies or organisations to use in the innovations of the company. E. Training for innovation activities Internal or external training of staff, specifically aimed at the development or introduction of new or external training of staff, specifically aimed at the development or introduction of new or introduction introduction of new or introduction of new or introduction	novatio	ourpo: sciei	\rightarrow A. \rightarrow B. \rightarrow C. \rightarrow D.	achievir echnolo ^{Value} (€	ng new gy and
D.1 In 2010, did the company perform any of the following activities, for or significantly improved products (goods or services) or processes, bas other areas of knowledge? (In the case of a positive answer, indicate the amount of expenditure.) Activities for technological innovation A. Internal R&D (This must coincide with question B.6.C) B. Acquisition of R&D (external R&D) (This must coincide with the total from section C) The same activities as those indicated above, but carried out by other organisations (including those from the same aroun) or public or private research bodies, and purchased by the company. C. Acquisition of machinery, equipment and advanced hardware or software aimed at the production of new or significantly improved products or processes (not included in R&D question B.6.B). D. Acquisition of other external knowledge for innovation (not included in R&D) Purchase or use, under licence, of patents or of non-patented inventions and technical or other knowledge from other companies or organisations, to use in the innovations of the company. E. Training for innovation activities Internal or external training of staff, specifically aimed at the development or introduction of new or significantly improved products or processes. F. Introduction of innovations in the market Activities for introducing, in the market, its new or significantly improved goods or services, including the	novatio r the psed or e) NO n n r n n n n n n n n n n	ourpo: sciei	\rightarrow A. \rightarrow B. \rightarrow C. \rightarrow D. \rightarrow E.	achievir echnolo ^{Value} (€	ng new gy and

If you have answered NO to all of the questions, go to section D.3.

D.2 Expenses on internal R&D and other innovation activities, by Autonomous Community, in 2010 Distribute expenditure on R&D activities and on technological innovation activities, indicating in questions D.1.A and D.1.H, among th Autonomous Communities where the company performs said activities. Check that the expenses on R&D are less than or equal to the expense on technological innovation in each Autonomous Community.

technological innovation in ea	ch Autonomous Com	munity.					
	Value (€ without	decimals)				Value (€ witho	out decimals)
	Expenses on Internal R&D	Expenses on Innovation				Expenses on Internal R&D	Expenses on Innovation
Andalucía			10.	Comunit	at Valenciana		
Aragón			11.	Extrema	dura	_	_
Asturias (Principado de)			12.	Galicia _			
Balears (Illes)			13.	Madrid (Comunidad de)		
Canarias				14.	Murcia (Región d	de)	
Cantabria				15.	Navarra (Com. F	oral de)	
Castilla y León				16.	País Vasco		
ataluña					Ceuta		
				19.	Melilla		
	Te	OTAL (coincide with	B.6.C and D	.1.H, resp	pectively)		
Include the financing throresearch and other		eductions, subsidi					cludes the
			YES	NO	Subsidies received in 201 (€ without	Credits re 2010 (€ without	ceived in t decimals)
Local or Autonomous admir	nistrations						
State Administration (includ	ing central public bodie	s and ministries)					
The European Union (EU)							
In case of a positive answ Seventh framework program and development of the Euro	nme (2007-2013) for tec						
D.4. In 2010, did thuse or contain free		irry out any	technol	logica	l innovatio	on activitie	s that
YES	N	O	to section E				
\downarrow							
4.1 Does the compan	y use the free s	oftware for ir	nternal R	&D ac	tivities?		
YES	N	o 🗌					
E. Innovation of pro	oducts and pro	cesses durii	ng the 2	008-2	010 period	ł	
E.1 Innovation of pro	ducts (goods o	services)					
The innovation of products of basic characteristics, technical examples in the annex). Chocompleted produced and de necessarily for the sector of companies.	al specifications, incor anges of a merely ac veloped by other con	porated software esthetic nature sho npanies. Innovatio	or other inta ould not be n (novelty o	ngible c conside or impro	omponents, des ered, as well as vement) must k	sired purposes o the sale of inn be such for the o	r provisions. (S ovations that a company, but n
E.1.1 During the 2008	3-2010 period, d	id the compa	ny intro	duce .			
new or significantly improved	d <i>aoods</i> ? (This excludes	the mere resale of	new aoods n	ourchase	d	_	YES NO
from other companies, and th				3.1300			

new or significantly improved services? If the answer was NO to both questions, go to section E.2.	
E.1.2 Who developed these product innovations? (Select the most adequate option)	
Mainly the company or group of companies	
Mainly the company, together with other companies or institutions	
Mainly other companies or institutions	
E.1.3 Brief description of the most important product innovation	

•••		YES	NO
an innovation only for the company?	The company introduced a new or significantly improved good or service of which the competitors already had one in the market		
an innovation in the market?	The company introduced a new or significantly improved good or service in the market before the competitors (it may already have been offered in other markets)		
E.1.5 Economic im	pact of the innovations of products on turnover in 2010		
	age, of total turnover for 2010 (listed in section A.7), according to the follow hal and check that the sum of the column is 100.0%.	ing classification	n. Write
1. % due to innovations on innovation for the company	goods and services introduced during the 2008-2010 period, that were only an		%
	goods and services introduced during the 2008-2010 period, that represented et in which the company operates		%
	ices that remained unchanged or experienced only small changes luding the resale of goods and services acquired from other companies)		%
Total turnover in 2010 (1+2	+3)	1 0 0	. 0 %
E.2 Innovation of p	processes		
Process innovation consi goods and services that a company, but not necess	sts of the implementation of production processes, distribution methods or size new or provide a significant improvement. Innovation (novelty or improvemarily for the sector or market. It does not matter whether the innovation was inpanies. This excludes merely organisational innovations.	ent) must be suc	h for the
	008-2010 period, did the company introduce		
		YES	NO
new or significantly impr	oved methods for the manufacture or production of goods or services?		
new or significantly impr goods or services?	oved logistics systems or delivery or distribution methods for its supplies,		
support activities for its p accounting, being new or	rocesses, such as systems of maintenance or IT operations, of purchases or of significantly improved?		
	If the answer has been NO to all of the options, go to section E.3 .		
E.2.2 Who develop	ped these process innovations? (Select only the most adequate option	n)	
Mainly the company or gro	up of companies		
Mainly the company, togeth	ner with other companies or institutions		

Mainly other companies or institutions

cooperation.

YES

engineering and carried out specifi	mong the innovation activities, we include the acquisition development tasks, industrial design, training, commercial cally for the purpose of developing or applying a product or ctivity, even when it is not related to a product and/or proces	isation and r process inr	research and novation. It als	developme	ent when it is
				<u>Y</u>	ES NO
•	ny have an innovation activity for developing product innovations ons, still in progress at the end of 2010?	s			
•	still in progress at the end of 2010, did any suffer an important d	lelay?			
2. During the 2008-2 during the concepti	2010 period, were any of the innovation activities or projects aba on stage?	ndoned			
3. During the 2008-2 once the activity or	2010 period, were any of the innovation activities or projects aba project had begun?	ndoned			
	If the answer has been NO to all of questions E.1.1,	, E.2.1 and E	E.3, go to sec	tion F .	
period					
of the company?	010 period, what importance did each of the following infor arces from which information was taken for new innova ts in progress)				
of the company? (Indicate the sou	rces from which information was taken for new innova	tion project		ntributed to	
of the company? (Indicate the sou	rces from which information was taken for new innova	tion project	ts or that co	ntributed to	completing It was not
of the company? (Indicate the sou	rces from which information was taken for new innova	tion project	ts or that cor	ntributed to	completing
of the company? (Indicate the sou innovation project	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the south innovation projection innovation innovation projection innovation innovati	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the south innovation projection innovation projection innovation projection in the south internal inter	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the south innovation project innovation proj	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of activity Consultants, commercial laboratories or private	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the soutinnovation projection innovation innovation projection innovation	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of activity Consultants, commercial laboratories or private R&D institutes	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the soutinnovation projection innovation innovation projection innovation	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of activity Consultants, commercial laboratories or private R&D institutes Universities or other centres of higher education	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the soutinnovation projection innovation	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of activity Consultants, commercial laboratories or private R&D institutes Universities or other centres of higher education Public research bodies Technological centres Conferences, trade fairs, exhibitions, etc.	tion project	ts or that cor	ntributed to	completing It was not
of the company? (Indicate the south innovation projection innovation innovation projection innovation innovati	Source of information Within the company or group of companies (departments, employees, etc.) Suppliers of equipment, material, components or software Clients Competitors or other companies from the same branch of activity Consultants, commercial laboratories or private R&D institutes Universities or other centres of higher education Public research bodies Technological centres	tion project	ts or that cor	ntributed to	completing It was not

⇔ Go to question **E.6**

E.5.1 Indicate the type of partner with which they cooperated, and the country in which it is located (mark the applicable answers) Type of partner with which they cooperated Their Another United China Other country European* States and countries country India A. Other companies from the same group B. Suppliers of equipment, material, components or software **D.** Competitors or other companies from the same branch of activity E. Consultants, commercial laboratories or private R&D institutes F. Universities or other centres of higher education G. Public research bodies H. Technological centres * This includes the following countries from the European Union, EFTA countries or EU candidate countries: Germany, Austria, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Norway, Netherlands, Poland, Portugal, United Kingdom, Czech Republic, Romania, Sweden, Switzerland and Turkey. E.5.2 What type of cooperation partner would you consider the most valuable for the innovation activities of the company? Indicate the letter that corresponds to section E.5.1 Indicate the name of the most valuable cooperation partner _ E.6 Objectives of technological innovation during the 2008-2010 period The innovative activity carried out in the company may have been oriented towards different objectives. Indicate the degree of importance of the following objectives: Degree of importance Low High Not Medium applicable **Objectives for** Broader range of goods or services Substitution of old products or processes the products Penetration in new markets Greater market quota Better quality of the goods or services **Objectives for** Greater flexibility in the production or provision of services the processes Greater capacity for the production or provision of services Lower labour costs per unit produced Fewer materials per unit produced Less energy per unit produced **Objectives** Increase in total for Increase in qualified employment employment Maintenance Other

objectives

Less environmental impact

or safety legal requirements

Improvement in health and safety of employees
Compliance with the environmental, health

F. Factors that hinder the technological innovation activities during the 2008-2010 period During the 2008-2010 period, what importance did the following factors have on hindering the innovation activities or projects or influencing the decision not to innovate? Degree of importance High Medium Not Low applicable **Factors** Lack of funds in the company or group of companies regarding cost Lack of financing from foreign sources to the company Innovation has too high a cost Lack of qualified staff **Factors** regarding Lack of information regarding technology knowledge Lack of information regarding the markets Difficulty in finding cooperation partners for the innovation Market dominated by established companies **Factors** Uncertainty with regard to the demand for goods and services regarding the market that are innovative Reasons not It is not necessary, due to previous innovations to innovate It is not necessary because there is no demand for innovations G. Intellectual and industrial property rights G.1. Application and use of patents and other protection methods during the 2008-2010 period During the 2008-2010 period, did the company apply for any patents to protect its inventions or innovations? YES \implies Go to section **G.2** • Indicate the number of patents requested in 2008-2010 (the same patent presented in different offices shall only • Indicate the number of patents requested in 2008-2010, according to the type of patent USPTO patent EPO patent PCT patent SPTO: Spanish Patent and Trademark Office. EPO: European Patent Office. USPTO: U.S. Patent and Trademark Office. PCT: Patent Cooperation Treaty G.2 Other intellectual and industrial property rights during the 2008-2010 period During the 2008-2010 period, did the company register any industrial drawing or model? YES ... register any trademark? NO ... claim royalties? NΩ H. Income from and payments for eliminated technology in 2010 Eliminated technology includes those technical services with technological content, patents, trademarks, models and inventions and R&D

Eliminated technology includes those technical services with technological content, patents, trademarks, models and inventions and R&D activities. **This excludes machinery and products**, be they with high, medium or low technology. Exchanges with foreign countries must meet these characteristics: a) the operation must have an explicitly technological content; b) it must place a Spanish company in contact

with foreign countries; c) the property or right to use the technology must be transmitted under commercial conditions.

H.1 Has the company carried out any exchange (income or payment) of eliminated technology, with companies from other countries?

VES	NO	Go to section I
150	IN()	Go to section 1

H.2 Value of the income and/or payments of eliminated technology with other countries, according to the nature of the transaction Nature of the transaction Income **Payments** (€ without decimals) (€ without decimals) Technical services with technological content 1. Hardware services (set-up, maintenance, etc.) 2. Technical architecture and engineering services (excluding construction and civil labour) 3. Technical services provided to industrial, agricultural, livestock breeding or mining companies Patents, trademarks, models and inventions 4. Transfer of patents, trademarks, models and inventions 5. Purchase/sale of patents, trademarks, models and inventions **R&D** activities 6. Basic and applied research; technological development TOTAL (1+2+3+4+5+6) Non-technological innovations I. Organisational innovations during the 2008-2010 period An organisational innovation consists of the implementation of new organisational methods in the internal functioning of the company (including knowledge management methods/systems), in the organisation of the workplace or in the external relations that have not previously been used by the company. It must be the result of strategic decisions made by the management of the company. It excludes mergers or acquisitions, although they may imply an organisational innovation for the company. I.1 During the 2008-2010 period, did the company introduce ... YES NO ... new business practices in the organisation of the work or of the company procedures? (For example, the management of the supply chain, knowledge management systems, re-engineering or business, efficient production, quality management, education and training systems, etc.) ... new organisation methods for the workplaces in the company, for the purpose of a better distribution of responsibilities and decision-making? (For example, use for the first time of a new system for distributing responsibilities among employees, managing working teams, decentralisation, restructuring departments, education/training systems, etc.) ... new management models for external relations with other companies or public institutions? (For example, creation for the first time of alliances, associations, externalisation or subcontracting) If the answer has been NO to all questions in section I.1, go to section J I.2 Who developed these organisational innovations? (Select only the most adequate option) Mainly the company or group of companies Mainly the company, together with other companies or institutions (including consultants) Mainly other companies or institutions (including consultants) I.3 Indicate the degree of importance of the objectives of the organisational innovations introduced by the company during the 2008-2010 period Degree of importance

High

Reduction of the response period as per the needs of a

client or supplier

Medium

Low

Not applicable

Improvement in the ability to develop new products or processes				
Better quality of the goods or services				
Lower costs per unit produced				
Improvement in the exchange of information or in the communication within the company or with other companies or institutions				
J. Commercialisation innovations during the	2008-201	0 period		
A commercialisation innovation is the implementation of new trade strathat have not previously been used. This must imply a significant change the same, an well as in its promotion and/or price. It excludes seasona methods. These innovations imply a search for new markets, but not characteristic transfer of the season of t	in the design o l, regular and	or packaging of the other similar chang	product, in the p	ositioning of
J.1 During the 2008-2010 period, did the compan	y introduc	e		
			YES	NO
significant modifications in the design of the product or in the g (This excludes the changes that affect the functionality of the product would be	oduct or the	characteristics of		
new techniques or channels for the promotion of the product? (of a new advertising channel, fundamentally new trademarks	•			
them in new markets, introduction of loyalty cards, etc.)				
new methods for the positioning of the product in the market o example, use for the first time of franchises or distribution licen retail, new concepts for the presentation of the product, etc.)				
new methods for establishing the prices of the goods or service use for the first time of a system of prices that vary by demand, systems, etc.)		iple,		
If the answer has been NO to all questions	from section	.J 1 →Go to secti	on K	
ii dio dilowel liuo beeli ivo to dii questiolis		700 10 30011	On IX	

Mainly the com	pany or group of companies	·					
Mainly the com	pany, together with other co	mpanies or in	stitutions (i	ncluding cor	nsultants)		
Mainly other co	mpanies or institutions (incl	uding consult	ants)				
12 Indianta th	- downer of improve	f 4	ha abia		41		
	e degree of importand oduced by the compa		-			mercialisation	
		,		-			
			Degree of i	Medium	Low	Not applicable	
Increase or improver	ment in the market						
Introduction of produc	cts in new groups of clients						
Introduction of produc	cts in new geographic marke	te					
miroduction of produc	oto in now goograpino marko						
K. Tax deduction	ons for R&D and inn	ovation					
K.1 Is the co	mpany aware of the i	regulations	s on ded	uctions fo	or R&D and	l innovation activit	ies?
	YES	NO					
K.2 Use of ir	nformation services re	egarding ta	ax incent	ives for R	&D and in	novation	
		- 					
1. Has the compar	ny requested information or clari	fications of the	Treasury, reg	arding the tax	incentives for l	R&D and innovation?	
2. Has the compar	ny every conducted a linked cons						
2. Has the compar obtained motivate	ny every conducted a linked cons d reports?	sultation with th	e Treasury, p	rior assessme	ent agreements,	or	
2. Has the compar obtained motivate3. Has the compan	ny every conducted a linked cons	sultation with th	e Treasury, p	rior assessme	ent agreements, siness associati	or ons?	_
2. Has the compar obtained motivate3. Has the compan4. Has the compan	ny every conducted a linked cons d reports? y attended information sessions	sultation with the regarding tax is regarding tax is	e Treasury, p	rior assessme ganised by bu ganised by a p	ent agreements, siness associati public institution	or ons?	
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		<u>Y</u> <u>N</u>
 Maintaining or increasing the budget dedicated to R&D and innovati Undertaking new R&D and innovation projects, or riskier projects 	on	
3. Beginning the R&D activities at the most opportune time		
4. Having greater freedom in planning		
5. Including new lines of business in the business strategy		
ner (specify)		
K.6 If the company has not applied tax deduction importance that each one of the following reason Degree of importance		
		 applicable
The company has very little R&D expenditure		
The taxable base of the company is usually small or null		
The regulations have ambiguities that cause the fear that an application of them will provoke an inspection		
application procedure requires too much time and is not worth it		
expolication procedure requires too much time and is not worth it concept of R&D expenditure considered in the regulations does not adjust a line of the constant of the cons	ust	
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Annex

1. Scientific Research and Experimental Development Activities (R&D)

1.1 Basic definitions

Scientific research and experimental development (R&D) is comprised of the creative work carried out systematically in order to increase the volume of knowledge, including the knowledge of man, culture and society, and the use of this knowledge to create new applications.

The criterion referring to *creative work carried out systematically* is satisfied by **projects with specific objectives and a budget**.

The term R&D comprises three activities: basic research, applied research and experimental development:

- Basic research consists of experimental or theoretical work that is mainly undertaken to obtain new knowledge on the essentials of observable phenomena and facts, without considering giving them any particular application or use whatsoever.
- Applied research also consists of the original work carried out to acquire new knowledge; however, it is mainly directed towards a specific practical objective.
- Experimental development consists of systematic work based on existing knowledge, obtained from the research and/or practical experience, aimed at the production of new materials, products or devices; at the establishment of new processes, systems and services, or at the substantial improvement of those already existing.

A **criterion** that allows R&D to be distinguished from other related activities is the existence, within the core of R&D, of an appreciable element of innovation, and the resolution of a scientific and/or technological uncertainty; in other words, R&D appears when the solution to a problem is not evident to someone who is perfectly aware of the set of knowledge and basic techniques customarily used in the sector at hand.

Not constituting R&D are those activities that do not contain an appreciable element of innovation, nor those routine activities that do not imply the resolution of a scientific or technological uncertainty.

1.2 Staff in R&D

All staff directly employed in R&D must be accounted for, as well as those persons who provide services directly related to R&D activities, for example, executives, administrators and office staff.

Researchers are professionals working in the conception or creation of new knowledge, products, processes, methods and systems, and in the management of the respective projects. (This includes graduate students who develop R&D activities).

Technicians and similar staff are persons whose main tasks require technical knowledge and experience in one or various fields of engineering, physical and life sciences, or social sciences and humanities. They participate in R&D, carrying out scientific and technical tasks that require the application of operational methods and principles, generally under the supervision of researchers.

Auxiliary staff (remaining staff) includes workers, both qualified and unqualified, and secretaries and office staff, who participate in the execution of R&D projects, or who are directly related to the execution of said projects.

The following is an indicative (not comprehensive) list of professionals from each of the categories of the staff employed in R&D.

• RESEARCHERS

Physics, mathematics and engineering professionals

Physicists, chemists and related professionals Mathematicians, statisticians and related professionals IT professionals

Architects, engineers and related professionals

Life and health sciences professionals

Life sciences professionals

Health sciences professionals

Teaching professionals

Professional teachers in Universities and Higher Education Institutions

Other professionals

Business professionals

Legal sciences professionals

Archivists, librarians, documentation and information professionals

Social sciences and related professionals

Research and development department managers

• TECHNICIANS AND EQUIVALENT STAFF

Professionals related to physics and engineering

Physics and engineering technicians

IT-related professionals

Operators of optical and electronic equipment

Naval and air technicians and controllers

Security and quality control inspectors

Security and quality of life professionals and associated health professionals

Life sciences technicians and associated related professionals

New associated health professionals (except nursing)

Other

Professionals in statistics and mathematics and other related associated professionals

• OTHER SUPPORT STAFF

Office staff

Workers skilled in agriculture and fishing Plant and machinery operators and assemblers

Associated administrative professionals Legislators, civil servants and management executives n.e.c.

1.3 Staff in R&D on FTE

The staff on a full-time equivalent (FTE) is the sum of the staff that works full-time, and the fractions of time of the staff that works part-time, in R&D activities. Therefore, a person dedicated full-time to R&D shall be counted as 1, and a person who dedicates 20% of their time to R&D shall be counted as 0.2. If someone works for three months full-time during the year, s/he will be counted as 0.25, as this is a quarter of the year. If a person works for part of the year full-time, and part of the year part-time, an estimation of the annual dedication to R&D will be calculated with a weighting (if s/he is, for example, 3 months full-time and 9 months 20% dedicated to R&D, then we calculate: 0.25*1 + 0.75*0.2 = 0.4).

1.4 R&D in software development

In order to classify a software development project as R&D, it is necessary for its undertaking to produce scientific and/or technical progress, and for its objective to be that of systematically solving a scientific and/or technological uncertainty.

Classified in R&D must be the software that forms a part of an R&D project, as well as the research and development activities associated with a software, if it constitutes a finished product.

The following examples illustrate R&D activities in software:

- a) The production of new theorems or algorithms in the theoretical field of Computational Sciences
- b) The development of Information Technologies at a level of operating systems, programming languages, data processing, communication software and software development tools
- c) The development of Internet technology
- d) The research on methods for the design, development, effective use and maintenance of the software
- e) The development of software that produces advances in general approximations of the collection, transmission, storage, recovery, manipulation or visualisation of information

- f) The experimental development aimed at bridging gaps in knowledge technology, necessary for developing software systems or programmes
- g) The R&D on tools or technologies in specific computation areas (image processing, geographical representation of data, character recognition, artificial intelligence and other areas).

Not constituting R&D are those activities of a routine nature that do not imply scientific or technological advances. For example, not considered to be R&D are:

- a) The development of software or business information systems applications, using known methods or pre-existing software tools
- b) The support for existing systems
- c) The conversion and/or translation of IT languages
- d) The adaptation of programs to specific users
- e) The filtering of systems errors
- f) The adaptation of existing software
- g) The preparation of user documentation

1.5 R&D in construction

- a) Research in new concepts based on the sustainability and the quality of life in:
 - a. Planning and design
 - b. Undertaking the job
 - c. Use patterns
 - d. Maintenance and repair
- b) Research in materials: properties and applications
- c) Development of new constructive techniques
- d) Development of calculation and design tools
- e) Development of validation standards and procedures
- f) Development of applications based on information and communication technologies
- Development of equipment, advanced machinery and auxiliary elements of support for the constructive process

1.6 R&D in services activities

The following criteria must be considered at the time of identifying R&D projects:

- a) Links with public research laboratories
- b) Employment of staff with a doctorate
- c) Publication of results in scientific magazines or conferences
- d) Construction of a prototype or pilot factory

A) Examples of R&D in banking and insurance:

- a) Mathematical research related to financial risk analysis
- b) Development of risk models for credit policies
- c) Experimental development of new software for home banking
- d) Development of techniques for researching consumer behaviour, for the purpose of creating new types of accounts or banking services
- e) Research to identify new risks or other characteristics of risks that must be considered in insurance contracts
- f) Research in social phenomena that have an impact on new types of insurance (health, retirement, etc.), such as insurance that covers *non-smokers*
- g) R&D related to electronic banking and insurance, Internet services and electronic commerce applications
- h) R&D related to new or significantly improved services from the financial sector (new concepts of accounts, loans, insurance or savings instruments)

B) Examples of R&D in other services activities:

- a) Analysis of the effects of economic and social changes on free time consumption and activities
- b) Development of new methods for measuring the expectations and preferences of consumers
- c) Development of new methods and instruments for surveys
- d) Development of procedures for the drawing and follow-up of trajectories (logistics)
- e) Research on new concepts of travel and holidays

2 Innovation Activities

2.1 Basic definitions

Activities for technological innovation are comprised of all those scientific, technological, organisational, financial and commercial stages, including the investment in new knowledge, aimed at the introduction of new or significantly improved products (goods or services) or processes.

R&D constitutes only one of these activities, and may be carried out in different stages of the innovation process, not only as an original source of creative ideas, but also as a means of solving problems that might arise at any stage until its completion.

The following activities should be considered for technological innovation:

- 1. Internal R&D activities
- 2. Acquisition of R&D (external R&D)
- 3. Acquisition of machinery and equipment (not included in previous sections)
- 4. Acquisition of other external knowledge (not included in previous sections)
- 5. Training
- 6. Introduction of innovations in the market
- 7. Design, other preparations for production or distribution

2.2 Innovations

Innovation, as defined in this survey, may be identified from the following points of view:

2.2.1 INNOVATION IN PRODUCTS (GOODS OR SERVICES)

- New technology allows for a better performance of the good or service
- A broadening is achieved of the level of products or services

Examples: substitution of existing materials by materials with improved characteristics (breathable materials, light but resistant compounds, ecological plastics), incorporation of software that improves accessibility or commodities, as well as the broadening of new functions in already existing products (mobile phones with cameras, two-size printing in photocopiers, etc.) introduction of ecological products, use of cards with microchips, customer card systems, DIAL-IN services, electronic banking and insurance, services related to the Net and electronic commerce (except the creation of a website of information without online services).

2.2.2 INNOVATION OF PROCESSES

2.2.2.1 Processes with the following characteristics:

- greater automation or integration
- greater flexibility
- improvement in quality
- improvement in security or the environment

Examples: automatic selection of orders, automatic follow-up of shipments, communication of data, connection of transport systems, barcode systems, optical data process, expert systems, software for system integration, use or development of software tools, implementation of CAD/CAE systems. The ISO certification is innovative only if it is directly related to the introduction of new or improved processes.

2.2.2.2 Logistics and control of the following characteristics:

- greater efficiency and better planning, due to new technologies
- greater flexibility in distribution
- improvement in stock control

Examples: management information systems, total quality management, orders systems, stock minimisation systems, product exchange systems, transport logistics, computer-assisted logistics.

2.2.3 ORGANISATIONAL INNOVATIONS

An organisational innovation consists of the implementation of new organisational methods, in the internal functioning of the company (including knowledge management methods/systems), in the organisation of the workplace, or in the external relations that have not previously been used by the company. It must be the result of strategic decisions made by the management of the company. It excludes mergers or acquisitions, although they may imply an organisational innovation for the company.

2.2.4 COMMERCIALISATION INNOVATIONS

A commercialisation innovation is the implementation of new trade strategies or concepts that differ significantly from those prior, or that have not previously been used. This must imply a significant change in the design or packaging of the product, in the positioning of the same, an well as in its promotion and price. **It excludes** seasonal, regular and other similar changes in the commercialisation methods. These innovations imply a search for new markets, but not changes in the use of the product.

2.3 Examples of specific innovations by sector

2.3.1 MANUFACTURING INDUSTRY

Product-oriented innovations:

- a) inclusion of ecological products
- b) lifetime guarantee of new or used products
- c) inclusion of services:
- combined solutions, for example, the sale of the product including maintenance
- tests, exams and certification of services
- provision of financial services for the clients (for example, loans, insurance)
- c) change of materials in the production of goods (such as, for example, breathable water-resistance mountaineering equipment)
- e) modules for the life sciences area, produced by bioengineering
- f) introduction of cards with microchips
- g) use of telematics in motor vehicles
- h) motor vehicles with pollutant reduction (for example, buses that run on natural gas)
- i) electronic stabilisation programmes in motor vehicles
- j) new types of paper for specific printers
- k) new types of propellant for boats
- I) high voltage lines that are isolated with gas
- m) remote maintenance
- n) microwave ceramics and surface wave filters for mobile communication

A change in the name or packaging of existing goods as a means of penetrating another market is not considered innovation

Process-oriented innovations:

- a) digitalisation of printing processes
- b) new type of blade for the production of wood products
- c) new type of unit for water removal
- d) application in series of polishes or varnishes in powder for varnishing metal
- e) new processes in the production of acids
- f) electronic hiring systems
- g) new CAD systems
- h) information distribution systems
- i) interconnected data processing systems, computational networks
- j) introduction of simulation programmes by finite elements, for component optimisation
- k) use of electronic commerce in manufacturing
- I) direct product-client feedback
- m) Internet-based route follow-up systems in real time

2.3.2 CONSTRUCTION

Product-oriented innovations

Design and assessment techniques, materials, construction techniques, specialised services and applications of information and communication technologies that enable:

- a) the inclusion of ecological products
- b) energy savings and efficiency
- c) the increase in the life cycle of the product
- the improvement in the use and comfort conditions (heating/air-conditioning, insulation, soundproofing, etc.)
- e) the interaction with persons and environmental conditions (domotics, environmental intelligence, etc.)
- the follow-up and/or control of the conditions of use, maintenance and conservation
- a) the remote control and or assistance
- the increase in the security conditions of use and/or maintenance

Process-oriented innovations

Design and assessment techniques, materials, construction materials, constructive elements and processes, acquisition of advanced machinery, applications of information, communication and automation technologies and systems for inspection, assessment and repair that enable:

- a) recycling and valuation of waste
- b) savings in materials and their reuse
- c) the reduction of the effects on the environment (noise, visual contamination, occupation of space, etc.)
- the significant improvement of the structural and functional properties of the materials
- e) the automation and mechanisation of processes
- the design, fabrication and testing of new systems and auxiliary elements to improve the constructive processes
- g) systems for the most efficient management and planning (control of jobs and deadlines, management of suppliers, etc.)
- h) the increase in on-the-job security conditions
- i) construction in unique conditions

2.3.3 WHOLESALE TRADE

Product-oriented innovations:

- a) inclusion of ecological products in the product catalogue
- b) lifetime guarantee of new or used products
- c) new types of certification services
- d) inclusion of additional services:
- combined solutions of technical services and consultancy
- services for checking, examination and certification
- a) adoption of financial services:
- payment by teletex
- electronic banking
- use of cards with microchips or SMART CARDS that allow for payment without money
- f) adoption of tasks from the manufacturing sector
- g) consultancy and orders from the point of sale
- h) remote maintenance
- i) electronic commerce
- j) electronic hiring systems
- k) direct sale to the final consumer

Process-oriented innovations:

- a) check-out counters with scanners
- b) 24-hour services, extension of opening hours and admission
- c) development and introduction of digital distribution channels
- d) laptop computers for salespersons as support for direct purchases
- e) electronic hiring systems
- f) digital product labelling, for example, barcodes
- g) reconstruction or reorganisation of sales rooms, if this enables consumer purchases
- h) receipt of orders by computer, with information regarding invoicing
- i) electronic catalogues, for example, on CD-ROM
- j) solutions based on call-centres
- k) service workshop or own garage
- I) training of qualified human resources to offer consultancy services to consumers

- m) new CAD systems
- n) information distribution systems
- o) interconnected data processing systems, computational network software
- p) establishment of direct feedback channels between the consumer and the producer
- q) customer service centre to coordinate consumer requests

2.3.4 FINANCIAL SERVICES

Product-oriented innovations:

- a) new or significantly improved financial services:
- online banking
- telephone banking
- b) new or significantly improved insurance services:
- introduction of concepts of life insurance by modules
- new professional disability insurance
- c) adoption of insurance services by banking companies and vice-versa
- d) adoption of real estate intermediation services:
- real estate merchanting services
- real estate valuation services
- real estate property management
- e) introduction of direct payment card systems in hospitals

Process-oriented innovations:

- a) online banking
- b) control tools by telephone
- c) new or improved software or computer networks
- d) application of new risk diversification methods
- e) document archive by optical-electronic means
- f) management of an office without paper
- g) improved payment systems with payment
- h) introduction of point of sale trade policy
- i) introduction of new ranking methods (rating or scoring)

2.3.5 OTHER SERVICES

Product-oriented innovations:

- a) automation of transactions with credit cards or debit cards
- b) adoption of tasks from the manufacturing sector
- c) remote maintenance of software, long-distance consultancy
- d) new statistical analysis methods
- e) development of flexible software to order
- f) hiring of environmental or energy services
- g) provision of new multimedia applications
- h) new logistics services
- i) voice response systems
- j) dial-in services

Process-oriented innovations:

- a) electronic data exchange
- b) undertaking of CAD/CAM projects
- c) electronic banking
- d) CASE tools for the creation of software to order
- e) automatic document creation
- f) improvement of the computer networks
- g) network management systems
- h) call management systems
- i) application of thermographic methods to evaluate technical systems
- j) Internet-based route follow-up systems in real time
- k) satellite navigation systems
- I) new software systems for the management of the chain of supply
- m) introduction of buses run on natural gas
- n) introduction of buses with a lowered floor

2.3.6 ORGANISATIONAL INNOVATIONS

- new organisational methods of routines and processes in work development.
- introduction of new practices in order to improve learning and knowledge. One example of this might be the creation of a Manual of Good Practices accessible to the entire company.

Another example is the implementation of systems to improve the development and loyalty of workers in the company via continuous training courses.

- introduction of integrated engineering and development, or production and sales, systems
- introduction of a High Performance Work System (HPWS), characterised by an integral organisation, and worth noting flat hierarchical structures, task rotation, teams with their own responsibility, multitasks, a greater participation of employees at lower levels in decision-making and the substitution of vertical communication channels by other horizontal channels.
- establishment of new paths of relations with other companies or public institutions, such as, for example, partnership agreements with research institutes, as well as new types of relations with clients and suppliers, or subcontracting some activities of the company: production, distribution and support services
- implementation of strategies through the use of a new software, aimed at encouraging knowledge, with different company departments participating.
- creation of a new department as a result of the union or separation of other existing departments

2.3.7 COMMERCIALISATION INNOVATIONS

- actions aimed at a better response to client needs, at the opening of new markets or at a new positioning of its products in the market, all with the final objective of increasing sales.
 These must be new actions, that is, not used previously in the company.
- significant changes in product design as a part of a new concept of commercialisation.
- introduction of new sales channels: franchising systems, direct sales or the concession of distribution licences.
- use for the first time of new means for the promotion or advertising of its products: inclusion of advertising within TV programmes, use of celebrities as the image of the company, etc.
- significant changes in the logos of the company, aimed at achieving a new corporate image
- issue of "client cards", with advantages to award the loyalty of company clients.
- introduction of different final presentations of a product, according to the target market (different covers and font types for children or adults, for the same book)
- introduction of price strategies, in accordance with the demand for the products, for example, strategies for lowering the prices of the least-demanded items in order to thus boost their sales. Those price strategies whose only objective is to differentiate prices according to client brackets, for example, the application of different fees, depending on the amount of the product requested by the client, is not considered a commercialisation innovation.

Differentiations necessary between organisational innovations and process innovations.

The changes implied by organisational innovations affect the organisation of the work and the distribution of human resources of a company, whereas process innovations imply the implementation of new, specific equipment, machinery and software.

Differentiations necessary between commercialisation innovations and product innovations.

Commercialisation innovations imply changes in the image or the final finish of a product, whereas product innovations imply substantial changes the composition of the product itself. Example: a mere change in the flavour of a yoghurt would be a commercialisation innovation, but if we add some vitamin compound to the yoghurt, enriching its composition, this would be a clear product innovation, by changing its use. If the objective is only to seek the broadening of the market, it is a commercialisation innovation.