

☐ Innovation in Companies Survey 2014

Nacional de Estadística	Ou
Identification	

Madifications in identific		alawa (a		
Modifications in identific	eation particu	Jiars (Complete d	only those sections	subject to variation)
Name or corporate name of the company	NI	F		
Registered address (street, square, avenue)				
Postal code Municipality		1		Municipality code
Province	Province code	Telephone	Fax	E-mail
Details of the person to be conta queries, clarifications or modific				RE OR SEAL OF THE COMPANY
Mr./Ms. :				
Post held in the company:				
Telephone:	Fax:			
E-mail:				
Company website				

Nature, characteristics and purpose

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

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 LFEP).

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 guestionnaire 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 2014, 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 2014.
- C. Purchase of R&D services in 2014.
- D. Activities for technological innovation performed by the company in 2014.
- E. Innovation of products and processes during the 2012-2014 period.
- F. Factors that hinder the innovation activities during the 2012-2014 period.
- G. Intellectual and industrial property rights.
- H. Organisational innovations during the 2012-2014 period.
- I. Commercialisation innovations during the 2012-2014 period.

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

A.1 Main economic activity		
Main activity: that which generates the greatest added value, or failing this, the greatest turn	iover.	
Description:		
Indicate, in order of importance, the main products resulting from this activity:	CNAE-2009	
1.		
2.		
A.2 Incidents during the 2012-2014 period		
During the 2012-2014 period, have any of the following changes taken place in the company?		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		
4. Merger or takeover with another company or part of another company		
Sale, closing or outsourcing of tasks or activities 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		

11	Go to question A.5	
 What is the complete name of the group, or failing this, of the parent com 	pany?	
What is the central headquarters of the group? (Write down the name of the group?)	he country)	
What is the relationship of the company with the group?		
1. Parent company 2. Affiliate 3. Joint company	mpany 4. As	sociate company
A.5 Year of creation of the company		
Please indicate the year of creation of the company		
A.6 Is the company located in a Scientific or Techno	ological Estate?	
YES ☐ NO ☐ ⇒ O	Go to question A.7	
What is the complete name of the Scientific or Technological Estate?		
2. What date did the company join the Scientific or Technological Estate?	L	
.7 Economic results		
e total commercial sales of goods and services, including exports and tax credit institutions, the interest to be charged and similar income. For in gred.		
	Year 2014 (€ without decimals)	Year 2012 (€ without decimals)
urnover		
Of turnover, indicate the total sales to European Union, FA or EU candidate countries Of turnover, indicate the total exports (excluding 1.1)		
Gross investment in material goods		
*This includes the following countries: Albania, Germany, Austria, Belgium, E	eland, Italy, Kosovo, Latvia,	
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey.	, Portugal, United Kingdom, (
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey.	, Portugal, United Kingdom, (
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey.	, Portugal, United Kingdom, (Year 2014	
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff		Czech Republic, Romani
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education	Year 2014	Year 2012
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education Unpaid staff	Year 2014	Year 2012
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education Unpaid staff TAL (1+2)	Year 2014	Year 2012
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education Unpaid staff TAL (1+2) Of the total staff, indicate the % of women 9 In what geographic market did the company sell g	Year 2014	Year 2012
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education	Year 2014	Year 2012 Ling the 2012-20
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education Unpaid staff TAL (1+2) Of the total staff, indicate the % of women 9 In what geographic market did the company sell geriod? (Mark all of the markets in which the company operates)	Year 2014 // was a coods or services dui	Year 2012
Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Ic Luxembourg, Macedonia, Malta, Montenegro, Norway, Netherlands, Poland Serbia, Sweden, Switzerland and Turkey. 8 Average number of employees Paid staff Of the previous figure, indicate how many of them have higher education Unpaid staff TAL (1+2) Of the total staff, indicate the % of women 9 In what geographic market did the company sell g	Year 2014 // was a coods or services dui	Year 2012 Year 2012 Wing the 2012-20

4. All remaining count	ries						
* This includes the for Slovakia, Slovenia, Es Macedonia, Malta, M Switzerland and Turke	tonia, Finland, Frar ontenegro, Norwa	nce, Greece, Hunga	ry, Ireland, Iceland	d, Italy, Kosov	o, Latvia, Lied	htenstein, Lithu	iania, Luxembourç
A.10 Activities	hased on hid	ological scien	res and tec	hnologies	in 2014		
Biotechnology is the order to alter living of	e application of so	ience and technol	ogy to living org	anisms, as w	ell as to thei		ts or models, in
1. Does the company organisms or to companier? (This includes b	pounds obtained fr	om these, in order	to acquire know		U	NO=	Go to sectio ⇒ A.11
If you answered yes, p	olease fill in the bio	technology module	•			\downarrow	
2. Indicate the resource	es dedicated to ac	tivities based on bi	ological sciences	and technolog	ies		
The full-time equivale activities based on bi					ns of time th	at the part-tim	e staff works on
	Staff		Staff on FTE (1 decimal)	To	al expenses (€ v	without decimals)
Dogguego vood	Total	Women	Total	Women		iai experiede (e	
Resources used: In biotechnology	Total	<u>women</u>		- Wollien			
A.11 Companie			s whose main a	activity is the	e performar	ice of R&D ac	tivities, researc
Indicate the main activ	vity of the company	/companies that be	enefit from their R	&D activities			
Description:						CNAE-	2009
B. Internal R8	&D activities	s in 2014					
Internal R&D activiti the volume of knowland processes. (See	ledge in order to d	conceive new appli	ications, such as				
B.1 Did the co	mpany carr	y out intern	al R&D acti	vities in	2014?		
	YES ☐ ↓	NC)	to section C			
Continu	uously	Occasionall	y Mark o	nly one option	ı		
B.1.1 Brief desc	cription of th	e most impo	rtant R&D p	roject			
B.2 Does your	company hav	ve a specific l	R&D departi	ment or la	boratory	?	
	YES	l	NO				
B.3 Staff dedicate	ated to inter	nal R&D activ	ities in 201	4, by occu	pation		
Personnel engaged A.8. The full-time ed works on R&D activi	quivalent (FTE) is	the sum of the st	aff that works fu				
A. Occupation				Persons		FTE (1 decim	nal)
·				Total	Women	Total	Women
1. Researchers (includ	ing the staff that di	rects, plans and/or			_		
coordinates tasks, as v	-						
2. Technicians		search)					
3. Assistants					_	- 	
TOTAL (1+2+3)							- <u>- </u>
Indicate then number	of interns in resear	ch included in poin	t 1				

B. Hiring of external consultants	to carry ou	t internal R&I	D activities in 2013				
Does the company have external cocarry out internal R&D activities?	nsultants wor	king "in situ" to		YES	NO		
1. Out of the previous TOTAL PERSOI (not accounted for in A.8)	NS, please ind	icate the externa	al consultants working	"in situ"			
2. Of the previous TOTAL FTE, pleas	e indicate the	external consu	ıltants working "in sit	tu"	,		
B.4 Staff dedicated to in	tornal B8	ND activiti	ee in 2014 by	aualifica	tion on F	TE	
	iterriai no	XD activiti	es III 2014, by	•	-		FTF
Qualification				Staff in R& (1 decimal)		Researchers (1 decimal)	OHFIE
				Total	Women	Total	Women
1. University Doctorates				-			
2. University Degree of more than 2 Degrees, Health Science specialties			ngineering, Master's				
3. University Degree of 240 Ed architecture and engineering and e year).			•				
4. Advance level professional training years for which the Post-Secondary	-	•			· 		
				•	į	•	•
 Post-Secondary Education Gradu Post-Secondary Graduate, Interm Intermediate Music and Dance qual Official Language Schools — advance 	ediate vocat ification, basi	tional training	, VTI; Professional				
6. Other studies				•	•	•	•
TOTAL (1+2+3+4+5+6). This should (coincide with	R 3					
B.5 Distribution of the s carries out internal R&D		s	Autonomous Staff in R&D		nities in w	hich the	
Autonomous Community		IQD	on FTE (1 decimal)		aicheis	FTE (1 decimal)	
	Total	Women	Total Wom	nen Tota	ıl Womer	n Total	Women
1. Andalucía							
2. Aragón	_						
3. Asturias, Principado de							
4. Balears, Illes				<u> </u>			
5. Canarias							
6. Cantabria	_						
7. Castilla y León	_			<u> </u>			
8. Castilla-La Mancha				.			
9. Cataluña	_			<u> </u>			
10. Comunitat Valenciana	_			<u> </u>			
11. Extremadura	_		_ · · ·	<u> </u>			
12. Galicia			<u> </u>	<u> </u>			
13. Madrid, Comunidad de							
14. Murcia, Región de			_ <u> </u>	<u> </u>			-
15. Navarra, Comunidad Foral de				<u> </u>		<u> </u>	
16. País Vasco			<u> </u>	·			
17. Rioja, La 18. Ceuta							

19. Melilla

TOTAL (this should coincide with B.3)

B.6 Expenses on internal R&D activities in 2014

Expenses on remunerations are those corresponding to the business costs of the researchers on FTE and the technicians and assistants on FTE specified in B.3. For the rest of the items in this section, we shall assign the part of expenditure that corresponds to R&D. The business costs of the external consultants working on site should be included only in "3.3. Other current expenses "and "3.1. Total expenditure incurred by contracting external consultants working on site".

	,	Value (€ without decimals)
Remuneration of researchers on FTE (this includes the remuneration of the interns)		
2. Remunerations of technicians and assistants on FTE		
3. Other current expenses (without VAT or amortisations)		
3.1. Out of the previous figure, please indicate the total cost of the hiring of external consultants working "in situ" to carry out internal R&D activities		
A. Total current expenses on R&D (1+2+3)		
4. Equipment and instruments (without VAT)		
5. Land and buildings (without VAT)		
6. Acquisition of specific software for R&D (including licences)		
(without VAT)		
B. Total capital expenses on R&D (4+5+6)	_ B	
C. TOTAL (A+B)		
B.7 Research grants		
Estimate the total value of the grants received during the year 2014 by the research intern the type of grant and of the organisation that granted it. This figure should be included in toquestion B.6.		
		Value (€ without decimals)
1. Research grants		
B.8 Distribution of current expenditure on internal R&D activities in	201	4. by type of research
Breakdown, as a percentage, of the CURRENT internal expenses on R&D from B.6.A , according (Do not write decimals, and check that the sum of the column is 100%). (See annex at the entire column is 100%).		
1. Fundamental or basic research		
2. Applied research		
3. Technological development		1
TOTAL		
.9 Financing of the expenses on internal R&D in 2014		
Breakdown of the total internal expenses on R&D from question B.6.C , according to the origina R&D. In the case of public funds for carrying out R&D, we must distinguish between subsidies and contracts (and purchases) with the Administration. Refundable loans for carrying of Administration and other sources, shall be included as their own funds. In the case of research R&D at the service of other company/companies, the institutional quotas received, by which the pecific R&D orders) must be included in their own funds. The amount on this part should correspond to the funds implemented over 2014.	s (incl ut R& ch as	uding non-refundable loans) AD obtained from both the sociations and companies in
		Value (C without desimals)
ource of the funds		Value (€ without decimals)
Financing by the company itself		
unds of its own	- 1-	
oans (applied value in the year)	2	
- Of the loans previously declared, what amount has been lent by the Administration?		2.1
Financing from other Spanish companies		
rom companies in their same group	3	
rom other public companies	4	
rom other private companies and research associations	5	
Public financing		
Subsidies from the State Central Administration	6	
Contracts with the State Central Administration	7	
Subsidies from the Autonomous and Local Administrations	8	

- Contracts with the Autonomous and Local Administrations	9	
D. Other national sources		
- From universities	10	
- From private, non-profit institutions	11	
E. Foreign funds		
- From foreign companies in their same group	12	
- From other companies	13	
- From European Union programmes	14	
- From foreign Public Administrations	15	
- From foreign universities	16	
- From foreign, private, non-profit institutions	17	
- From other international organisations	18	
TOTAL (this must coincide with B.6.C)		
B.10 Distribution of expenditure on internal R&D ac objective		
Breakdown, as a percentage, of the internal expenses on R&D from B.6.C that socio-economic objective or purpose of the research. (Do not write decimals, a		
Exploration and exploitation of the land media and of the atmosphere		%
Control and protection of the environment		%
3. Exploration and exploitation of space		%
4.1 Transport and telecommunications systems		
4.2 Other infractructure		
6. Industrial production and technology		%
7. Protection and improvement of human health		\%
8. Development of agriculture. livestock breeding. forestry and fishing9. Education		
10. Culture, leisure, religion and the media		
44 Deliking and a sink water at the state of		
12. Non-oriented research		
13. Defence		%
TOTAL		1 0 0 %
C. Purchase of R&D in 2014 These are those motivated by the acquisition of R&D outside the company by institutional quotas for financing other companies, research associations, etc. the companies of R&D in Crain (with set VAT).	nat do not imply a direct purcha	
A. Purchase of R&D in Spain (without VAT)	1	
- From companies in the same group		
- From other companies	2	
- From research associations	3	
- From Public Administration bodies	4	
- From universities	5	
- From private, non-profit institutions	6	
B. Purchase of R&D abroad (without taxes)		
- From foreign companies in the same group	7	
- From other foreign companies	8	
- From foreign Public Administration bodies	9	
- From foreign universities	10	
- From foreign, private, non-profit institutions	11	

- From other international organis	sations			12		
C. Total purchase of R&D (extern	al R&D) (sum from 1	l to 12)				
D. Activities for tech	nological inn	novation per	formed by the	com	pany in 20	14
A technological innovation, as the market, or a new or signitechnological developments, company. (See annex at the en Changes of an aesthetic naturorganisation or management, The innovation (product or procompany operates. This section requests information	defined in this sur- ficantly improved new combinations of of the questionna e, the mere sale of must not be include cess) is always new	vey, as a new or si process introduces of existing technaire). innovations produced. They shall be sport the company.	gnificantly improved position of the market. Inno nologies, or the use used completely by oto pecified in section H or It is not necessary for	oroduct ovation of othe her con r in sect	(good or service is based on the er knowledge an expanse, and single ion I.	e) introduced on e results of new acquired by the mple changes in
D.1 In 2014, did the achieving new or sign science, technology at expenditure)	ificantly impr	oved product	s (goods or ser	vices)	or process	es, based on
Activities for technological inno	ovation			NO	YES	Value (€ without decimals)
A. Internal R&D (This must coincid	de with question B.6.0				\rightarrow A.	
Creative works carried out withi its use for conceiving new or im	n the company in ord	er to increase the vol	_			
B. Acquisition of R&D (external R The same activities as those in those from the same group) or	ndicated above, but o	carried out by other	organisations (including		\longrightarrow B.	
C. Acquisition of machinery, equi at the production of new or R&D question B.6.B).					\longrightarrow C.	
D. Acquisition of other external k Purchase or use, under licence knowledge, from other compan	, of patents or of no	n-patented invention:	s and technical or other		\rightarrow D.	
E. Training for innovation activities Internal or external training of some or significantly improved produces.	staff, specifically aime	ed at the developmer	nt or introduction of new		\rightarrow E.	
F. Introduction of innovations in Activities for introducing, in the including the prospecting of the	ne market, its new o		oved goods or services,		\rightarrow F.	
G. Design, other preparations for Technical procedures and prep or processes, not included development of routine softw development or introduction of	parations for carrying in other sections (vare, design and la	out new or significa for example, viabil unch of production	intly improved products ity tests and studies,		\longrightarrow G.	
H. (A+B+C+D+E+F+G) TOTA	AL				→ H.	
	If you have answe	ered NO to all of t	he questions, go to s	ection I	D.4.	
D.2 Expenses on interin 2014						s Community,
Distribute expenditure on R&D the Autonomous Communities to the expenses on technologic	where the compar	ny performs said a	ctivities. Check that th			
	Value (€ withou		_		Value (€ witho	out decimals)
	Expenses on Internal R&D	Expenses on Innovation	_		Expenses on Internal R&D	Expenses on Innovation
1. Andalucía		_	10. Comunitat Vale	nciana _		
2. Aragón		-	11. Extremadura			
3. Asturias, Principado			12. Galicia	المام والماد		
4. Balears, Illes 5. Canarias			13. Madrid, Comuni 14. Murcia	uaa de		
6. Cantabria	_		15. Navarra, Com. F	oral de		
7. Castilla y León			16. País Vasco	Jiui UE	-	
8. Castilla-La Mancha		-	17. Rioja, La			

Cataluña	18. Ceuta 19. Melilla
	TOTAL (coincide with B.6.C and D.1.H, respectively)
D.3. In 2014, did the co	ompany carry out any technological innovation activities tha
contain free software?	
YES	NO \bigcirc \rightarrow Go to section D.4
D.3.1 Does the company	y use the free software for internal R&D activities?
YES	NO
_	014 period, did the company receive public financial suppor for technological innovation activities, from the following
	credits or deductions, subsidies, subsidised loans and loan guarantees. This excludes the vities that are carried out completely by contract for the public sector.
	YES NO
Local or Autonomous administrations State Administration (including centr Ministries)	
The European Union (EU)	
the Seventh framework program technological research and developm 2020 Research and Innovation program Union? E. Innovation of production	ment or in the Horizon
E.1 Innovation of product	ts (goods or services)
referring to basic characteristics, purposes or provisions. (See exam as the sale of innovations that improvement) must be such for the same of the sa	sts of the introduction, in the market, of new or significantly improved goods or services, technical specifications, incorporated software or other intangible components, desired nples in the annex). Changes of a merely aesthetic nature should not be considered, as well are completed produced and developed by other companies. Innovation (novelty or the company, but not necessarily for the sector or market. It does not matter whether the by the company or by other companies.
E.1.1 During the 2012-201	4 period, did the company introduce
from other companies, and the mod	the mere resale of new goods purchased difications solely for aesthetic purposes)
service innovations? (new or signif	icantly improved services)
If	the answer was NO to both questions, go to section E.2 .
E.1.2 Who developed the	ese product innovations? (Tick all that apply)
	Innovations Innovations in goods in services
The company, together with other coand consulting firms included)	ompanies or institutions (other companies from the same group
	tion or modification of goods or services originally developed by er companies from the same group and consulting firms included)
	er companies from the same group and consulting firms included)

E.1.3 Brief description of the most important product innovation

The company? The company introduced a new or significantly improved good or service of which the company introduced a new or significantly improved good or service in the market of the company introduced a new or significantly improved good or service in the market before the competitors if the available of the interest in the market before the competitors if the available of the interest in the market before the competitors if the available of the interest in the market before the competitors if the available of the interest in the market before the competitors in the figure with one declinal and check that the sum of the column is 100.0%. 1. % due to innovations on goods and services introduced during the 2012-2014 period, that were only an innovation for the company operates 3. % due to postant in which the company operates 3. % due to postant in which the company operates 3. % due to postant in which the company operates 4. % So due to innovations on goods and services introduced during the 2012-2014 period, that represented an innovation for the market in which the company operates 5. % due to innovation on goods and services introduced during the 2012-2014 period including the resale of goods and services acquired from other companies 6. In the 2012-2014 period (including the resale of goods and services acquired from other companies) 6. E. Innovation of processes 6. E. Innovation of processes 6. E. Innovation of processes 7. Focess innovation consists of the implementation of production processes, distribution methods or support activities goods and services that are new or provide a significant improvement. Innovation involving or improvement must be succompany, but not necessarily for the sector or market. It does not matter whether the innovation was initially developed company or by other companies. This excludes merely organisational innovations, of purchases or of accounting, b	NO
of which the company? In an innovation in the market? The company introduced a new or significantly improved good or service market? In the market before the competitors (it may already have been offered in other markets) E.1.5 Economic impact of the innovations of products on turnover in 2014 Breakdown, as a percentage, of total turnover for 2014 (listed in section A.7), according to the following classification, the figure with one decimal and check that the sum of the column is 100.0%. I. due to innovations on goods and services introduced during the 2012-2014 period, that were only an encovation for the company I. due to innovation son goods and services introduced during the 2012-2014 period, that represented in innovation for the company operates I. due to goods and services that remained unchanged or experienced only small changes In the 2012-2014 period (including the resale of goods and services acquired from other companies) I. due to goods and services that remained unchanged or experienced only small changes Into a turnover in 2014 (1+2-3) E.2 Innovation of processes Process innovation consists of the implementation of production processes, distribution methods or support activities goods and services that are new or provide a significant improvement. Innovation (novelty or improvement must be succempany, but not necessarily for the sector or market, it does not matter whether the innovation was initially developed company or by other companies. This excludes merely organisational innovations, (See examples in the annex). E.2.1 During the 2012-2014 period, did the company introduce YES. In new or significantly improved methods for the manufacture or production of goods or services? In the company improved logistics systems or delivery or distribution methods for its supplies, goods or services? In the company, they be the support activities for its processes, such as systems of maintenance or IT operations, of purchases or of accounting, being new or significantly improved purch	110
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1. Does the company have an innevation activity for developing product innevations	oftware ar carried o
or process innovations, still in progress at the end of 2014?	oftware and control of the control o

1.1 Of the activiti	es still in progress at the end of 2014, did any suffer an important	delay?				
-	2. During the 2012-2014 period, were any of the innovation activities or projects abandoned during the conception stage?					
3. During the 201	2-2014 period, were any of the innovation activities or projects ab or project had begun?	andoned				
,	If the answer has been NO to all of questions E.1.1 , E	.2.1 and E.	3 , go to section	on F .		
period	es of information for technological innova					
of the company (Indicate the s	2-2014 period, what importance did each of the following info? cources from which information was taken for new innovalects in progress).					
	Source of information	Degree	of importance	e		
		High	Medium	Low	Not used	
Internal	Within the company or group of companies (departments, employees, etc.)					
Sources from the market	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					
Institutional sources	Universities or other centres of higher education Public research bodies Technological centres					
Other	Conferences, trade fairs, exhibitions, etc.					
sources	Scientific magazines and commercial/technical publications				U 	
	Professional and sectorial associations				u [
F.5 Cooperation	on for technological innovation activities du	ırina the	2012-201	4 period		
Cooperation for in	novation consists of the active participation, with other connecessary for the two parties to reap a trade benefit. This	mpanies or	non-commerc	cial bodies,	in innovation	
companies or b	YES NO	⇔G	o to question E	i.6		
apply)	e type of partner with which they cooperated, and	tne coun	try in Wnich	I IT IS IOCA	TEG (lick all that	
Type of partner wi	th which they cooperated	Their country	Another European* country	States a	hina Oth nd er dia cou ntri es	
A. Other companies	s from the same group					
B. Suppliers of equi	pment, material, components or software					
C. Private sector clie	ents					
D. Public sector clie	nts					
E. Competitors or o	ther companies from the same branch of activity					
F. Consultants or co	ommercial laboratories					
G. Universities or o	ther centres of higher education					
H. Public or private	research centres					

Specify which of	these centres are:				
Public Research	Institutions				
Technological o	eentres				
Healthcare entit	ties research				
Slovakia, Slovenia,	ne following countries: Albania, Germany, Austria, Belgium, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Ita Montenegro, Norway, Netherlands, Poland, Portugal, Unite rkey.	aly, Kosovo, Lat	via, Liechtenste	in, Lithuania	, Luxembourg,
E.5.2 Indicate	e the formula for cooperation used with eac	ch type of p	oartner		
Type of partner v	vith which they cooperated	Collaborative Innovation contract	under no contract/Subc h	onsulta cy/Tec Othe nical upport	r
A. Other companie	es from the same group				
B. Suppliers of equ	uipment, material, components or software				
C. Private sector c	lients				
D. Public sector cli	ients				
E. Competitors or	other companies from the same branch of activity				
_	commercial laboratories				
G . Universities or	other centres of higher education				
H. Public or private	e research centres				
Specify which of	these centres are:				
Public Research	n Institutions				
Technological o	entres				
Healthcare entit	ties research				
Slovakia, Slovenia, Macedonia, Malta, Switzerland and Tu E.6 Objective	ne following countries: Albania, Germany, Austria, Belgium, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Ita Montenegro, Norway, Netherlands, Poland, Portugal, Unite rkey. Yes of technological innovation during the 2 Ctivity carried out in the company may have been oriented to	aly, Kosovo, Lat d Kingdom, Czd 2012-2014 p	via, Liechtenste ech Republic, I	ein, Lithuania Romania, Se	, Luxembourg, erbia, Sweden,
	e following objectives:				
		<u>Degree</u> High	of importance Medium	Low	Not 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 employment				
for	Increase in total employment Increase in qualified employment				

employment	Maintenance of employment					
	Less environmental impact					
Other	Improvement in health and safety of employees					
objectives	Compliance with the environmental, health					
	or safety legal requirements					
	QUESTIONS THAT MUST BE ANSWE	RED BY ALL CO	MPAN	IES		
	hat hinder the technological inno	vation activ	vitie	s during	the 20	12-2014
period						
	2-2014 period, what importance did the follow jects or influencing the decision not to innova		e on	hindering t	he innova	tion
шоптино от рто	jooto or immuorioning the decicles her to immora		ee of ir	mportance		
		High		Medium	Low	Not 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		<u> </u>			- 💾
Factors	Lack of qualified staff	<u>_</u>	_			
regarding 	Lack of information regarding technology		=			
knowledge	Lack of information regarding the markets					
	Difficulty in finding cooperation partners for the innovation					
Factors	Market dominated by established companies					
regarding the	Uncertainty with regard to the demand for goods and	services				
market Reasons not	that are innovative					_ 📙
to innovate	It is not necessary, due to previous innovations	L	=			
to iiiiovate	It is not necessary because there is no demand for inne	ovations _				
G. Intellectu	al and industrial property rights					
G 1 Applies	tion and use of patents and other	protection r	moth	ode duri	na tha '	2012-201 <i>4</i>
period	tion and use of paterits and other	protection i	Heth	ous uuri	ily tile i	2012-2014
-	I-2013 period, did the company apply for any բ	patents to prot	ect its	sinvention	s or innov	ations?
YES	NO So to section G.2	<u> </u>				
	cate the number of priority patents requested in 2012-201	4				
~	cate the number of priority patents requested in 2012-201					/e been
prese	nted					
SPTO patent		ther Office's atent		_		
Indicate the nu SPTO patent	mber of priority patents in force on 31st December 2014, a USPTO patent (they have b	een presented
Н	ow many of these are exploited directly by the Company?					
W	hat is the value you would quantify in the said direct exp	loitation in 2014? _		¬ (wh	ole numbers)
SPTO: Spanish Treaty	Patent and Trademark Office. EPO: European Patent Office. U	SPTO: U.S. Patent a	and Tra	demark Office	. PCT: Patent (Cooperation

G.2 Other intellectual and industrial property rights during the 2012-2014 period During the 2012-2014 period, did the company register any industrial drawing or model? ... register any trademark? ... claim royalties? ...breed a new plant variety? ...signed a Material Transfer Agreement? ...registered a Usefulness Model? -was any of them European? ...registered software? ...signed a know-how confidential agreement? G.3 During the 2012-2014 period, did the company carry out any of the following operations:... NO SI ...adquisition of IN*licenses or purchase of patents, industrial design rights, royalties or registered trademarks from other companies, universities or research centre? ... OUT* licenses granting or sale of patents, industrial design rights, royalties or registered trademarks to other companies, universities or research centre? *Adquisition of licenses of routine software for computers, such as operating systems, word processors, spreadsheets, etc. is excluded. IN license: Adquisition of a license or right of use of a product or technology for R&D, industrial and commercial purposes. OUT license: concession of a license or right of use of a product or technology for R&D, industrial and commercial purposes. If the answer was NO to both questions, go to section G.4 G.3.1 Indicate the number of licenses acquired and/or conceded and their value in 2014 by type: Number Value (¬ whole numbers) National IN license National OUT license International IN license International OUT license IN license: Acquisition of a license or right of use of a product or technology for R&D, industrial and commercial purposes. OUT license: concession of a license or right of use of a product or technology for R&D, industrial and commercial purposes. G.4 Expenditure for the protection of intellectual and industrial property rights in 2014 Indicate the value of the expenditure effected in 2014 for the protection of intellectual and industrial property rights (expenses generated by the registration of new intellectual or industrial property titles are included, as well as the maintenance of the existing ones):

¬ whole numbers

Non-technological innovations

H . Organisational innovations during the 2012-2014 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. (See examples in the annex).

	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, e-engineering or business, efficient production, quality management, education and raining.).		
new organisation methods for the workplaces in the company, for the purpose of a better listribution of responsibilities and decision-making? For example, use for the first time of a new system for distributing responsibilities among mployees, managing working teams, restructuring departments, education/training systems, tc.)		
. new management models for external relations with other companies or public institutions? For example, creation for the first time of alliances, associations, externalisation or ubcontracting)		
I. Commercialisation innovations during the 2012-2014 period A commercialisation innovation is the implementation of new trade strategies or concepts that different have not previously been used. This must imply a significant change in the design or packaging the same, as well as in its promotion and/or price. It excludes seasonal, regular and other similar methods. These innovations imply a search for new markets, but not changes in the use of the productions.	of the product, in r changes in the	the position commercialis
A commercialisation innovation is the implementation of new trade strategies or concepts that diftended that have not previously been used. This must imply a significant change in the design or packaging	of the product, in r changes in the	the position commercialis
A commercialisation innovation is the implementation of new trade strategies or concepts that different that have not previously been used. This must imply a significant change in the design or packaging the same, as well as in its promotion and/or price. It excludes seasonal, regular and other simila methods. These innovations imply a search for new markets, but not changes in the use of the produce.	of the product, in r changes in the	the position commercialis
A commercialisation innovation is the implementation of new trade strategies or concepts that different that have not previously been used. This must imply a significant change in the design or packaging the same, as well as in its promotion and/or price. It excludes seasonal, regular and other simila methods. These innovations imply a search for new markets, but not changes in the use of the produce.	of the product, in r changes in the ct. (See examples	the position commercialis in the annex
A commercialisation innovation is the implementation of new trade strategies or concepts that different that have not previously been used. This must imply a significant change in the design or packaging the same, as well as in its promotion and/or price. It excludes seasonal, regular and other similal methods. These innovations imply a search for new markets, but not changes in the use of the product. I.1 During the 2012-2014 period, did the company introduce I.2 Significant modifications in the design of the product or in the packaging of the goods or services? This excludes the changes that affect the functionality of the product or the characteristics of the use Said changes in the functionality of the product would be product innovation) I.3 In the company introduce of the use Said changes in the functionality of the product would be product innovation) I.4 In the company introduce of the goods or services? I.5 In the company introduce or services? I.6 In the company introduce or services? I.7 In the product or the product or the characteristics of the use Said changes in the functionality of the product would be product innovation) I.6 In the company introduce or services? I.7 In the product or the characteristics of the use Said changes in the functionality of the product would be product innovation)	of the product, in r changes in the ct. (See examples	the position commercialis in the annex
A commercialisation innovation is the implementation of new trade strategies or concepts that different that have not previously been used. This must imply a significant change in the design or packaging the same, as well as in its promotion and/or price. It excludes seasonal, regular and other similal methods. These innovations imply a search for new markets, but not changes in the use of the product I.1 During the 2012-2014 period, did the company introduce In significant modifications in the design of the product or in the packaging of the goods or services? This excludes the changes that affect the functionality of the product or the characteristics of the use acid changes in the functionality of the product would be product innovation) In new techniques or channels for the promotion of the product?	of the product, in r changes in the ct. (See examples	the position commercialis in the annex

	Thank you for your collaboration
Observations:	



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

- 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
- g) 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)
- d) 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
- d) 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
- g) the remote control and or assistance
- h) 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.)
- d) 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
- i) 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

- a) new organisational methods of routines and processes in work development.
- b) 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.
- c) introduction of integrated engineering and development, or production and sales, systems
- d) 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.
- e) 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.
- f) implementation of strategies through the use of a new software, aimed at encouraging knowledge, with different company departments participating.
- g) creation of a new department as a result of the union or separation of other existing departments
- h) creation of a new marketing department to improve the acquisition of clients.
- i) use of e-commerce in manufacturing in order to achieve more efficient invoicing (reduction of billing time and bills in different languages).
- j) subcontracting some activities of the company, such as provision of qualified temporary personnel when carrying out events, by specialised companies.
- k) establishing Cooperation Agreements to improve commercialisation, contracting.
- I) ongoing training systems, especially for new languages, handbook of good practice.
- m) changes in the establishment management system (from management as property owner to management of a rental).
- n) organisational changes derived from purchasing companies or accessing new markets or new market segments.
- o) changes in business or activity models.
- p) new and more flexible organisational work systems, new systems for organising work routines or development processes, High Performance Work Systems (HPWS).
- q) evolution of organisation charts in order to adapt to the sector current activities and needs.
- r) incorporation of new figures, like the Revenue Manager and the community manager, or introduction of a Business Intelligence unit in the corporate structure.

2.3.7 COMMERCIALISATION INNOVATIONS

- a) 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.
- b) significant changes in product design as a part of a new concept of commercialisation.
- c) introduction of new sales channels: franchising systems, direct sales or the concession of distribution licences.
- d) 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.
- e) significant changes in the logos of the company, aimed at achieving a new corporate image
- f) issue of "client cards", with advantages to award the loyalty of company clients.
- g) 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)
- h) 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.

- i) introduction of new mailing techniques aimed at clients with promotional packs.
- j) use of celebrities as the company's image.
- k) creation of a "Club" for clients, publication of a weekly newspaper...
- I) accessing new markets (Russian market, Polish market...).
- m) establishing Joint Ventures with other companies to broaden markets.
- n) significant changes in image policies (changes in logos, corporate image,...).
- o) incorporation to IMSERSO programmes, Europe senior tourism, etc.

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.