

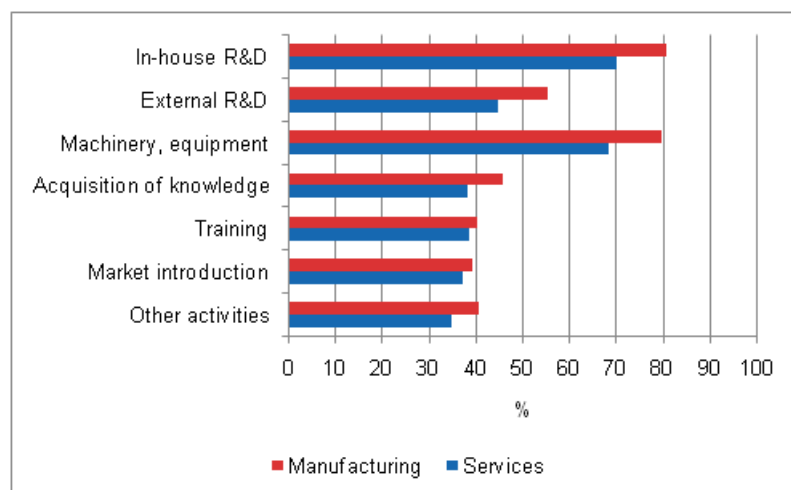
Innovation 2008

Innovation Survey final report

Innovation activity still more common in manufacturing than in service enterprises

Nearly one half of enterprises employing at least ten persons practised innovation activity related to product and process innovations in 2006–2008. The majority of these also introduced product or process innovations. During the time period in question, innovation activities were most often directed to research and development and purchases of machines and equipment. Enterprises reported innovation expenditure to the tune of around EUR seven billion in 2008. The data derive from a survey of Statistics Finland concerning innovation activity among enterprises.

Prevalence of innovation activities in manufacturing and services, 2006–2008, share of enterprises with innovation activity



Fifty-seven per cent of the enterprises having launched product innovations on the market in 2006 to 2008 introduced products new to their market. Three out of four of those with innovations brought to the market products new to their enterprise. In 2008 around 16 per cent of the enterprises' combined turnover was accumulated from innovations launched on the market in 2006 to 2008.

Innovation activity related to product and process innovations was still more common in manufacturing than services and large enterprises engaged in innovation activity more often than small ones did. The key objectives in innovation activity were improvement of the quality of products, enlargement of the product

selection and growing of the market share, but such as increasing the flexibility of processes and cost-effectiveness were equally important targets. Enterprises felt the most important information sources for work related to the development of product and process innovations were customers, and equipment and material suppliers and for group enterprises other enterprises in their group.

Of the enterprises with innovation activity 37 per cent had been involved in co-operation related to innovations with other enterprises and institutes. The main co-operating partners for the development of innovations were, similarly as for the most important information sources, customers, and equipment and material suppliers and for group enterprises their own group. Co-operation is also extensive with international partners; for example, nearly one third of those having co-operated reported partners in the United States and almost one fifth had partners in China.

One third of all enterprises said that they had had marketing or organisational innovations. Enterprises thought the main objectives of organisational innovations were acceleration of responding to co-operation partners' needs, while with innovations connected to marketing the aim is to strengthen the market share and reach new customers.

Nearly two thirds of the enterprises having adopted product, process, marketing or organisational innovations in 2006 to 2008 claimed that their innovations had produced environmental benefits. In manufacturing the share was 73 per cent of those with innovations, and in services 53 per cent. The most general environmental benefits related to production of products were more effective use of materials and energy, and recycling of waste, water or materials used in production. Intensification of energy use was mentioned most commonly of the environmental benefits related to the end use of products. Enterprises thought the most important reasons for introducing environmental innovations were the demand for environmental innovations and voluntary agreements and instructions related to environment-friendly activity.

The survey covered enterprises employing at least ten persons in manufacturing (incl. mining and quarrying, electricity, gas and air-conditioning supply, and water supply and waste management) and in certain service industries.

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1. Introduction

The main objective of the Innovation Survey is to examine the prevalence and extent of innovation activity and to chart the characteristics and measures related to innovation activity.

The Innovation Survey 2008 is part of the joint Community Innovation Survey (CIS2008) project of the EU Member States coordinated by Eurostat, the Statistical Office of the European Statistics, which means that a corresponding survey is conducted in other EU Member States as well. The survey makes use of a harmonised data collection questionnaire and uniform definitions and methods.

The survey concerned the three-year period 2006-2008 and covered enterprises employing at least ten people in manufacturing (incl. mining and quarrying, electricity, gas and air-conditioning supply, and water supply and waste management) and in certain service industries. The target group of the survey and the implementation of the survey are described in more detail in the quality description.

The final results of the survey differ slightly from the preliminary data released in March 2010. The reason for this is a methodological change made to the estimation of the data.

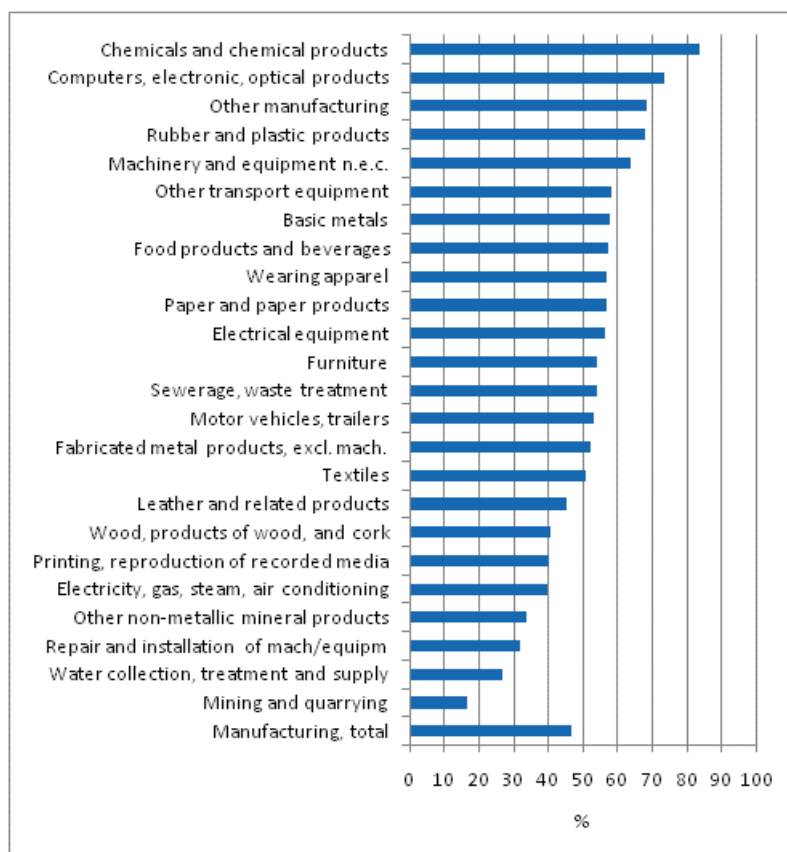
2. Innovation activity connected to product and process innovations in 2006–2008

From 2006 to 2008, a total of 47 per cent of the enterprises surveyed engaged in innovation activity connected to product and process innovations. An enterprise is considered to have practised innovation activity if it has introduced innovations or has some activity aimed at their introduction. Nearly all enterprises (43 per cent of all enterprises) with innovation activity related to product and process innovations had also introduced product or process innovations.

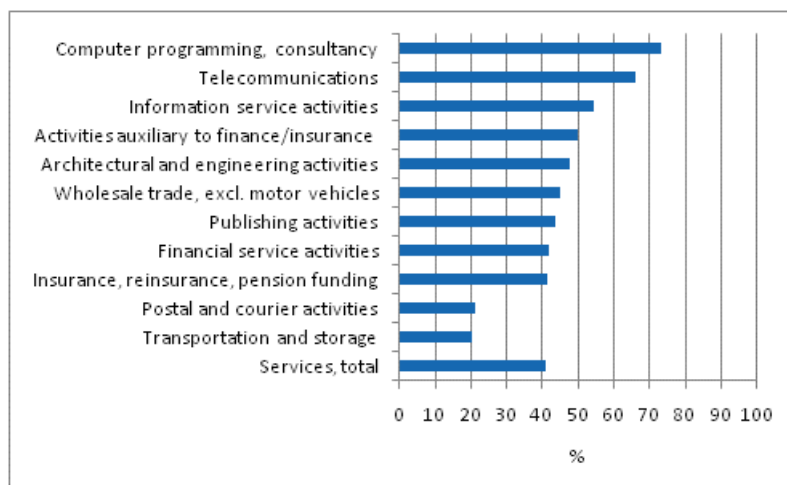
As before, innovation activity was more common in manufacturing enterprises than in service enterprises. Enterprises with innovation activity accounted for 53 per cent of manufacturing and for 41 per cent of service enterprises.

A general feature to be noted is that innovation activity becomes more common as enterprise size grows and in group enterprises (especially in those belonging to foreign groups) innovation is more common than in independent enterprises. As many as 61 per cent of the enterprises belonging to foreign groups reported innovation activity in 2006 to 2008, while for enterprises belonging to Finnish groups the corresponding share was 52 per cent, and 42 per cent for independent enterprises.

Prevalence of innovation activity by industry in manufacturing, 2006–2008, share of enterprises



Prevalence of innovation activity by industry in services, 2006–2008, share of enterprises



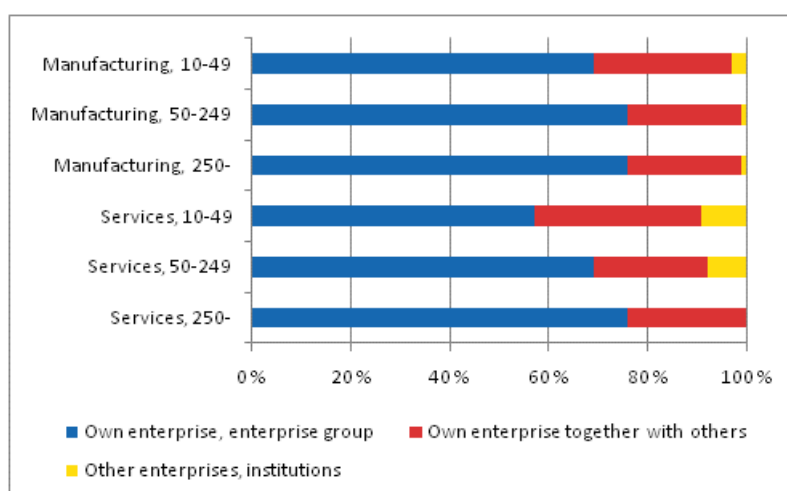
Introduction of product innovations and their share in enterprises' turnover

Nearly one third of all enterprises reported having launched on the market a product innovation or innovations from 2006 to 2008. Enterprises having brought product innovations on the market accounted for 33 per cent in manufacturing and for 28 per cent in service enterprises.

In all, 22 per cent of the enterprises reported product innovations for a new or improved goods; in manufacturing 29 per cent and in services 15 per cent. Nearly one fifth of the enterprises, 17 per cent, had launched service innovations on the market; in manufacturing 14 per cent and in services 21 per cent. Almost one third of those having introduced product innovations reported both good and service innovations.

Product innovations are still mainly developed in the enterprise itself or in its group, because two thirds of those with innovations said the primary developer of innovations was their own enterprise or group.

Developers of product innovations by size category of personnel in manufacturing and services, 2006–2008, share of enterprises with product innovations



In all, 57 per cent of the enterprises with innovations had launched on the market such product innovations that were new to the market. Three fourths of the innovating enterprises reported innovations that were new only to their enterprise. Of all enterprises reporting product innovations, 43 per cent had brought on the market only such innovations that were new only to their own enterprise, 24 per cent had launched products only new to the market and 33 per cent reported products new both to their own enterprise and to the market.

In 2008 around 16 per cent of the enterprises' combined turnover was accumulated from innovations launched on the market in 2006 to 2008. In manufacturing, product innovations made up 21 per cent of the turnover and in services seven per cent. The turnover gained from new products in the market represented 40 per cent of the turnover accumulated from innovations.

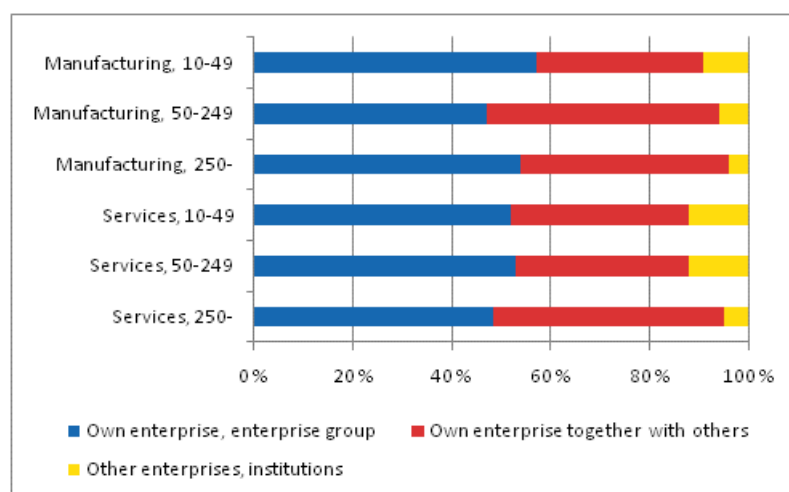
Innovation activity connected to processes

Enterprises introduced process innovations slightly more often than product innovations in 2006 to 2008, because 34 per cent of all enterprises reported process innovations. In manufacturing 39 per cent had implemented process innovations. In services this share was 30 per cent.

Process innovations most often concerned manufacturing and production methods and supporting activities related to processes. Twenty-three per cent of the enterprises had adopted new manufacturing or production methods; in manufacturing 31 per cent and in services 14 per cent. Twenty-one per cent of enterprises had introduced innovations related to support activities; in manufacturing 21 per cent and in services 22 per cent. Twelve per cent of all enterprises reported innovations related to logistic solutions or delivery or distribution methods.

The developer of process innovations is often some other than the enterprise implementing them. Fifty-three per cent of those having introduced process innovations said the primary developer of innovations had been their enterprise or group, 37 per cent claimed it had been their enterprise with other actors and nine per cent said the primary developer of innovations had been other enterprises or institutions.

Developers of process innovations by size category of personnel in manufacturing and services, 2006–2008, share of enterprises with process innovations



Interrupted and ongoing innovation projects

In 2006 to 2008 one quarter of all enterprises had had activities or projects aimed at development of product or process innovations, but they had either been interrupted during the review period or not been completed by the end of 2008. In manufacturing around 30 per cent of the enterprises had had these projects and in services about 20 per cent.

Almost all who said they had had such activities reported projects continuing at the end of 2008. Instead, good one third - ten per cent of all enterprises - reported projects that had been interrupted before their completion.

Innovation activities and expenditure

In addition to research and development, innovation activity includes purchasing of machinery and equipment, and acquisition of competence and training, when their specific objective is to develop or adopt product or process innovations. Innovation activities also comprise actions aimed at launching innovations on the market and other actions required for introducing innovations, such as various surveys, testing and technical preparation work.

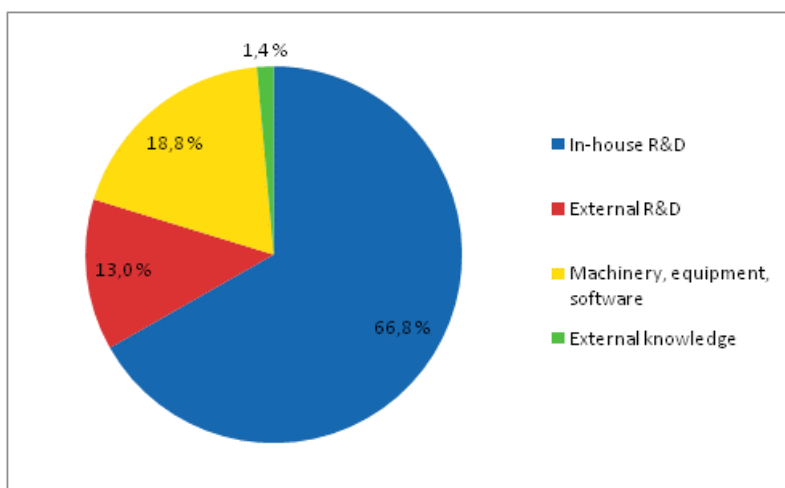
Around three fourths of the enterprises having practised innovation activity related to product and process innovations in 2006 to 2008 said they had engaged in their own research and development (R&D). Slightly over one half of them said their R&D activity had been regular. About one half of those with innovation activity had commissioned R&D from outside the enterprise. In all, about 80 per cent of those having engaged in innovation activity reported R&D in 2006 to 2008, whether their own or commissioned from outside.

Seventy-five per cent of those with innovation activity reported having purchased machines, equipment, IT equipment and software for developing new or significantly improved products and processes. A total of 42 per cent of those with innovation activity had acquired enterprise-external competence, such as patents and non-patented inventions or know-how and other competence. Around 40 per cent had arranged or commissioned training related to innovation activity and 38 per cent reported actions related to launching innovations on the market. Similarly, 38 per cent of those with innovation activity had used other actions not mentioned above for adoption of innovations.

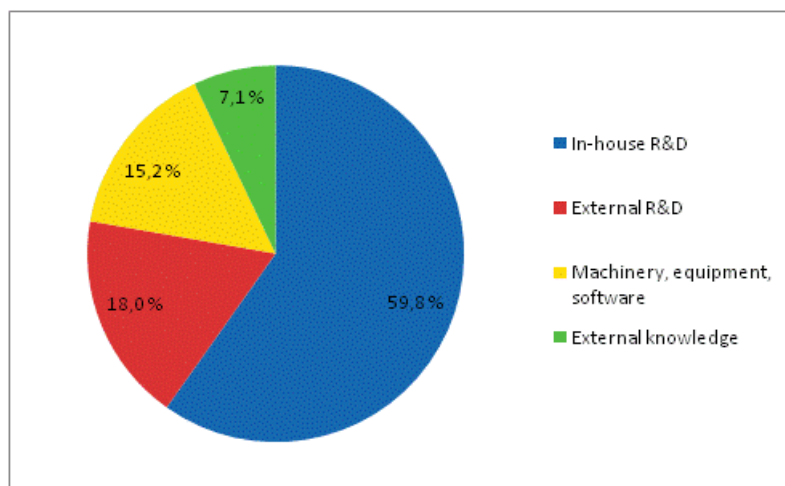
Enterprises reported innovation expenditure related to their own R&D, R&D commissioned from outside the enterprise, machine and equipment purchases and acquisition of knowledge connected to innovation activity to the tune of EUR seven billion in 2008. The expenditure on enterprises' own R&D totalled about EUR 4.6 billion. Enterprises commissioned R&D from others at about EUR one billion. Machine and equipment purchases related to innovations amounted to nearly EUR 1.3 billion and acquisition of knowledge to nearly EUR 200 million.

In manufacturing the combined innovation expenditure of enterprises was nearly EUR 5.9 billion, and in the service industries included in the survey good EUR 1.1 billion.

Distribution of innovation expenditure in manufacturing, 2008



Distribution of innovation expenditure in services, 2008



Around one third of the enterprises with innovation activity had received public funding for their activity in 2006 to 2008. In manufacturing 46 per cent had had funding, in services 20 per cent.

Eight per cent of those with innovation activity had received funding from local or regional authorities. Twenty-nine per cent had received support from the State and seven per cent from the European Union. Large enterprises received support from the State and the EU more often than small ones, while smaller enterprises got funding from local or regional authorities in relative terms more frequently than large ones did.

Information sources of innovation activity

One's own enterprise or group is still the most significant information source for innovation activity; 96 per cent of those having engaged in innovations had used their own enterprise or group as the information source and 65 per cent assessed their own enterprise or concern as being the primary source.

The next most important information sources in 2006 to 2008 were customers and suppliers of equipment and materials. The significance of customers was mostly felt large or moderate, while equipment and material suppliers were most often mentioned as moderately important sources.

In relative terms, of the information sources mentioned the least use was made in 2006 to 2008 of public and private non-profit research institutes, universities and polytechnics and industrial organisations. The shares of those having used them as information sources were, respectively, 51, 59 and 64 per cent of those having engaged in innovation activity.

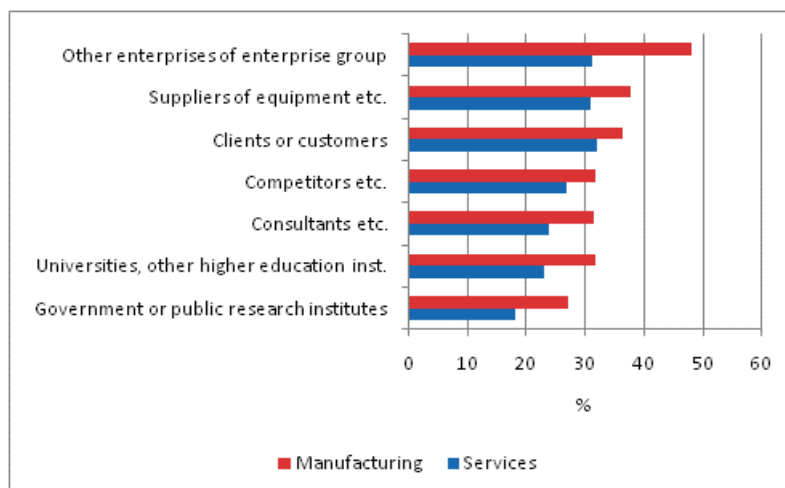
Use of different information sources and their significance appeared to be similar in manufacturing and services.

Co-operation in innovation activity

The key co-operation partners in innovation activity are customers and equipment and material suppliers and for group enterprises other enterprises in their group. Around one third of those with innovation activity connected to product or process innovations in 2006 to 2008 reported about co-operation with equipment and material suppliers. Similarly, around one third said they had had collaboration related to innovation activity with customers. Forty per cent of the innovating enterprises belonging to groups had co-operated with enterprises in their own group.

In relative terms, the least collaboration was reported with public and private non-profit research institutes. Majority of those that had co-operated with them said the importance of the collaboration had been minor.

Co-operation in innovation activities by co-operation partner, 2006–2008, share of enterprises with innovation activities



In all, 37 per cent of those with innovation activity said they had had co-operation related to innovations. Nearly all of these enterprises had co-operation partners in Finland, around 70 per cent elsewhere in Europe. Of those having co-operated, nearly one third had partners in the United States and close on one fifth said they had partners in China. Six per cent of those having co-operated reported partners in India and one fifth elsewhere not mentioned above.

Objectives of innovation activity

Improvement of the quality of products and enlargement of the product selection were mentioned relatively most often in the survey as the objectives of the innovation activity related to product and process innovations. Naturally one key objective is also to increase the market share.

Similarly, increasing the flexibility of production and improvement of efficiency are also central to the development of activity; around 90 per cent of the enterprises with innovation activity regarded these (improvement of flexibility and lowering of unit costs) as the targets of their innovation activity.

3. Marketing and organisational innovations 2006–2008

A total of one third of all enterprises had adopted marketing or organisational innovations in 2006 to 2008. In manufacturing, the share of enterprises having adopted innovations was 31 per cent and in services 35 per cent.

Adoption of marketing and organisational innovations was otherwise characterised by the same general features as innovation activity connected to product and process innovations; adoption of marketing and organisational innovations grew with the increase in enterprise size and was more common in enterprises belonging to groups than in independent ones.

If innovation activity includes both product and process innovations and activities aimed at them and marketing and organisational innovations, the share of those engaged in innovation activity according to this extensive definition was 52 per cent in 2006 to 2008. Using the extensive definition, 56 per cent of the enterprises practised innovation activity in manufacturing and 49 per cent in service industries.

Prevalence of introduction of organisational innovations and targets of innovations

Every fourth enterprise had introduced organisational innovations. Adoption of organisational innovations was slightly more common in services than in manufacturing, the shares being, respectively, 27 and 22 per cent of all enterprises.

Organisational innovations were most often related to new business practices and new processes for organising responsibilities and decision-making. Adoption of innovations related to business practices - as innovations related to responsibilities and decision-making - was reported by 18 per cent of the enterprises. Instead, ten per cent reported introduction of innovations related to new ways of organising the enterprise's external relations.

Enterprises felt the main targets of organisational innovations were to speed up responding to customer and sub-contractor/supplier needs and to improve the quality of enterprises' products.

Prevalence of introduction of marketing innovations and objectives of innovations

Good one fifth of enterprises, 22 per cent, had introduced marketing innovations in 2006 to 2008. The share of those having adopted innovations was the same in manufacturing and services.

Marketing innovations were most often new practices for sales promotion. Innovations included in these were reported by 14 per cent of the enterprises. The second most significant marketing innovations were those linked to new pricing practices, which had been adopted by 13 per cent of the service enterprises, for example.

The key objective of marketing innovations was naturally to increase or maintain the market share; reaching new customer groups was slightly more important than attaining new geographical markets.

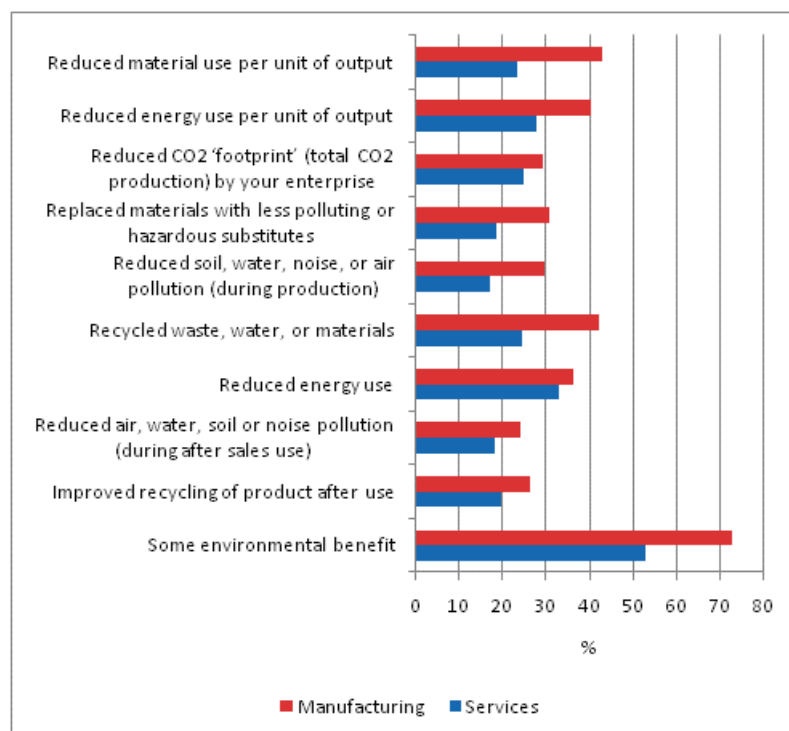
4. Introduction of innovations producing environmental benefits in 2006-2008

This time the Innovation Survey also examined the prevalence of innovations producing environmental benefits and what the environmental benefits attained by innovations were like and for which reason environmental innovations were introduced.

By definition, environmental innovation here refers to a new or significantly improved product (good or service), process or method linked to an organisation or marketing, which compared with alternative renovations produces environmental benefits. The environmental benefits to be gained can be the main target of the innovation or the result of other objectives of the innovation. The environmental benefits of the innovation may appear during the production of the good or service or during the end use of products.

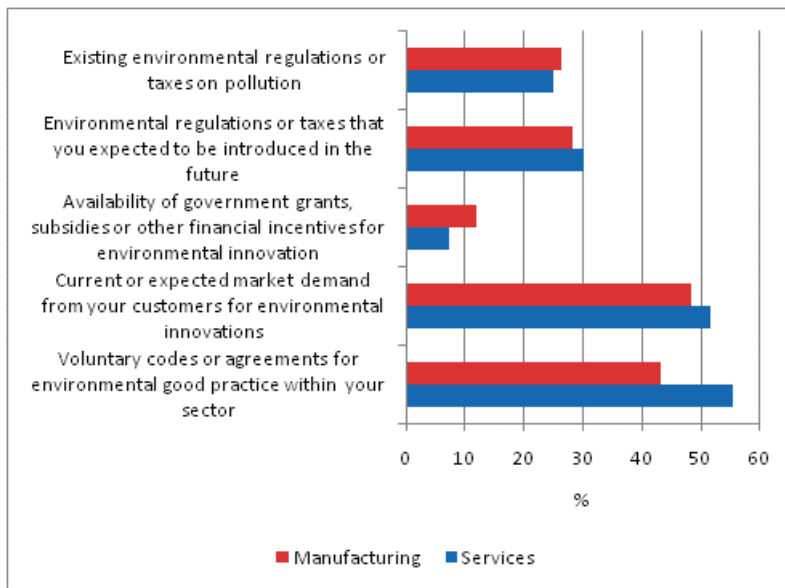
Nearly two thirds of those with innovations in 2006 to 2008 reported adoption of innovations that had produced environmental benefits. In manufacturing the share was 73 per cent of the innovating enterprises and in services 53 per cent. The most common environmental benefits related to production of products was more efficient utilisation of materials and more effective use of energy per unit produced and recycling of waste, water and materials used in production. Intensification of energy use was mentioned most generally of the environmental benefits related to the end use of products. Introduction of innovations producing environmental benefits and the environmental benefits produced by innovations appeared more often in manufacturing than in services. Then again, larger enterprises reported environmental benefits and innovations producing environmental benefits more frequently than small ones.

Environmental benefits of innovations in manufacturing and services, 2006–2008, share of enterprises with innovations



Enterprises thought the most important reasons for introducing environmental benefits were the demand for environmental innovations and voluntary agreements and instructions related to environment-friendly activity. One half of those having adopted environmental innovations in 2006 to 2008 were of the opinion that their customers' present or future demand for environmental innovations had brought about introduction of environmental innovations. Similarly, nearly one half responded that voluntary agreements or instructions relating to environment-friendly activity in the enterprise's industry had caused adoption of environmental innovations.

Reasons for introducing environmental innovations in manufacturing and services, 2006–2008, share of enterprises with environmental innovations



Tables

Table 1. Prevalence of innovation activity by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Product innovations (goods and services)	Process innovations	Product or process innovations	Innovation projects	Innovation activity	All elements
		%	%	%	%	%	%
All NACE - Total	10–49	26,6	31,2	39,2	21,0	42,3	11,0
	50–249	39,3	41,1	52,6	32,3	57,4	16,4
	250–	59,0	58,0	70,9	61,5	75,6	41,9
	Total	30,5	34,4	43,3	25,0	46,8	13,5
Manufacturing	10–49	27,5	34,6	43,1	24,1	46,7	11,8
	50–249	43,1	45,7	57,9	36,4	63,1	19,6
	250–	68,3	65,8	81,5	72,9	86,9	48,8
	Total	33,2	38,8	48,5	29,5	52,5	15,6
Services	10–49	25,8	28,2	35,7	18,1	38,4	10,3
	50–249	33,7	34,6	44,9	26,3	49,3	11,8
	250–	46,4	47,5	56,3	46,0	60,2	32,5
	Total	27,8	30,0	38,0	20,5	41,0	11,5

Table 2. Prevalence of innovation activity by industry, 2006–2008, share of enterprises

Industry	Product innovations (goods and services)	Process innovations	Product or process innovations	Innovation projects	Innovation activity	All elements
	%	%	%	%	%	%
Mining and quarrying	8,3	12,7	15,4	5,6	16,8	2,8
Food products and beverages	49,4	47,1	57,1	26,5	57,1	23,5
Textiles	35,1	32,2	48,8	28,1	50,8	4,1
Wearing apparel	54,8	20,0	57,0	17,5	57,0	8,5
Leather and related products	29,7	23,1	45,1	13,2	45,1	7,7
Wood, products of wood, and cork	22,5	27,6	35,4	16,2	40,5	6,9
Paper and paper products	37,1	43,2	53,1	27,5	56,8	19,0
Printing and reproduction of recorded media	22,3	35,3	37,7	15,8	40,1	6,9
Chemicals and chemical products	53,4	55,5	73,8	66,1	83,6	28,4
Rubber and plastic products	46,7	49,2	60,1	49,0	68,0	28,9
Other non-metallic mineral products	26,0	27,1	31,9	19,1	33,7	12,4
Basic metals	24,1	49,6	51,8	41,9	57,5	21,9
Fabricated metal products, except machinery and equipment	22,3	44,1	49,0	22,1	52,0	8,9
Computer, electronic and optical products	60,4	53,3	68,7	57,3	73,6	39,7
Electrical equipment	40,5	42,8	53,6	41,2	56,3	27,1
Machinery and equipment n.e.c.	48,7	38,6	57,6	49,8	63,6	25,6
Motor vehicles, trailers and semi-trailers	42,2	33,0	51,1	29,7	53,0	18,5
Other transport equipment	35,7	41,1	47,0	45,4	58,3	22,1
Furniture	36,8	36,8	49,5	21,6	54,1	10,8

Industry	Product innovations (goods and services)	Process innovations	Product or process innovations	Innovation projects	Innovation activity	All elements
	%	%	%	%	%	%
Other manufacturing	56,8	48,3	61,7	45,2	68,4	31,8
Repair and installation of machinery and equipment	16,4	22,7	29,2	15,8	32,0	5,6
Electricity, gas, steam and air conditioning supply	7,0	25,6	29,8	22,2	39,9	2,0
Water collection, treatment and supply	8,3	21,0	23,8	16,6	26,6	5,5
Sewerage, waste treatment	31,6	45,5	53,8	19,8	53,8	9,8
Wholesale trade, except of motor vehicles and motorcycles	33,4	33,7	43,7	17,1	45,1	10,7
Transportation and storage	8,6	16,7	17,9	9,4	20,2	4,0
Postal and courier activities	6,2	16,9	16,9	16,9	21,3	6,2
Publishing activities	29,5	26,8	39,1	20,7	43,5	8,3
Telecommunications	58,8	50,8	58,8	58,8	65,9	45,8
Computer programming, consultancy and related activities	58,0	44,0	66,8	45,1	73,2	22,0
Information service activities	47,7	45,0	54,4	34,2	54,4	24,8
Financial service activities	28,5	31,8	40,1	19,8	42,0	10,7
Insurance, reinsurance and pension funding	31,1	28,0	36,0	31,7	41,3	13,5
Activities auxiliary to financial services and insurance activities	33,4	38,9	50,0	19,4	50,0	11,1
Architectural and engineering activities; technical testing and analysis	28,1	36,4	41,9	28,1	47,7	18,5
All NACE - Total	30,5	34,4	43,3	25,0	46,8	13,5
Manufacturing, total	33,2	38,8	48,5	29,5	52,5	15,6
Services, total	27,8	30,0	38,0	20,5	41,0	11,5

Table 3. Prevalence of innovation activity by form of enterprise, 2006–2008, share of enterprises

Industry	Form of enterprise	Product innovations (goods and services)	Process innovations	Product or process innovations	Innovation projects	Innovation activity	All elements
		%	%	%	%	%	%
All NACE - Total	Independent enterprise	25,2	30,7	38,4	20,8	41,7	10,8
	Part of domestic group	34,6	39,2	47,8	32,2	52,0	17,5
	Part of foreign group	47,9	42,7	57,7	31,7	60,9	19,3
Manufacturing	Independent enterprise	28,1	34,3	43,8	23,3	47,5	10,9
	Part of domestic group	38,0	46,2	53,9	39,0	58,4	22,5
	Part of foreign group	56,1	50,5	67,8	48,7	72,4	30,3
Services	Independent enterprise	22,0	26,7	32,4	18,1	35,2	10,6
	Part of domestic group	31,0	31,9	41,4	25,2	45,4	12,4
	Part of foreign group	43,4	38,4	52,2	22,3	54,7	13,3

Table 4. Prevalence of product (good or service) innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Product innovations (goods and services)	Only innovations for a new or improved good	Only innovations for a new or improved service	Both good and service innovations	Product innovations for a new or improved good	Product innovations for a new or improved service
		%	%	%	%	%	%
All NACE - Total	10–49	26,6	11,0	8,0	7,6	18,6	15,5
	50–249	39,3	19,1	9,8	10,4	29,5	20,2
	250–	59,0	22,6	13,7	22,8	45,3	36,5
	Total	30,5	13,1	8,6	8,8	21,9	17,4
Manufacturing	10–49	27,5	15,3	4,6	7,6	22,9	12,2
	50–249	43,1	28,0	4,0	11,2	39,2	15,1
	250–	68,3	35,4	2,8	30,0	65,4	32,8
	Total	33,2	19,2	4,3	9,7	28,8	14,0
Services	10–49	25,8	7,2	11,0	7,5	14,7	18,5
	50–249	33,7	6,4	18,1	9,2	15,6	27,3
	250–	46,4	5,0	28,5	12,9	17,9	41,4
	Total	27,8	7,0	12,8	8,0	15,0	20,8

Table 5. Prevalence of product (good or service) innovations by industry, 2006–2008, share of enterprises

Industry	Product innovations (goods and services)	Only innovations for a new or improved good	Only innovations for a new or improved service	Both good and service innovations	Product innovations for a new or improved good	Product innovations for a new or improved service
	%	%	%	%	%	%
Mining and quarrying	8,3	4,2	0,0	4,2	8,3	4,2
Food products and beverages	49,4	35,6	0,5	13,4	48,9	13,8
Textiles	35,1	16,5	12,4	6,2	22,7	18,6
Wearing apparel	54,8	38,7	4,7	11,5	50,2	16,2
Leather and related products	29,7	22,0	0,0	7,7	29,7	7,7
Wood, products of wood, and cork	22,5	16,5	3,3	2,6	19,2	6,0
Paper and paper products	37,1	19,7	0,0	17,4	37,1	17,4
Printing and reproduction of recorded media	22,3	4,4	13,3	4,7	9,0	17,9
Chemicals and chemical products	53,4	39,0	3,3	11,1	50,2	14,4
Rubber and plastic products	46,7	32,8	2,0	11,9	44,7	13,9
Other non-metallic mineral products	26,0	19,7	0,0	6,3	26,0	6,3
Basic metals	24,1	14,6	0,0	9,6	24,1	9,6
Fabricated metal products, except machinery and equipment	22,3	9,1	7,2	5,9	15,1	13,2
Computer, electronic and optical products	60,4	26,3	2,5	31,6	57,9	34,1
Electrical equipment	40,5	24,6	0,0	15,8	40,5	15,8
Machinery and equipment n.e.c.	48,7	30,3	2,8	15,6	45,9	18,5
Motor vehicles, trailers and semi-trailers	42,2	38,6	0,0	3,6	42,2	3,6
Other transport equipment	35,7	18,4	0,0	17,3	35,7	17,3
Furniture	36,8	26,4	0,0	10,4	36,8	10,4
Other manufacturing	56,8	40,3	0,0	16,5	56,8	16,5
Repair and installation of machinery and equipment	16,4	1,6	6,3	8,5	10,0	14,8
Electricity, gas, steam and air conditioning supply	7,0	1,7	2,8	2,5	4,2	5,3
Water collection, treatment and supply	8,3	2,8	5,5	0,0	2,8	5,5
Sewerage, waste treatment	31,6	0,0	25,8	5,8	5,8	31,6
Wholesale trade, except of motor vehicles and motorcycles	33,4	16,8	6,9	9,7	26,5	16,6
Transportation and storage	8,6	0,2	7,9	0,6	0,8	8,5
Postal and courier activities	6,2	0,0	2,6	3,7	3,7	6,2
Publishing activities	29,5	4,1	13,0	12,4	16,5	25,5
Telecommunications	58,8	0,0	34,1	24,7	24,7	58,8
Computer programming, consultancy and related activities	58,0	7,7	24,9	25,4	33,1	50,3
Information service activities	47,7	2,7	36,2	8,7	11,4	45,0
Financial service activities	28,5	0,0	24,9	3,6	3,6	28,5
Insurance, reinsurance and pension funding	31,1	4,9	19,8	6,5	11,4	26,2
Activities auxiliary to financial services and insurance activities	33,4	2,8	19,4	11,1	13,9	30,6

Industry	Product innovations (goods and services)	Only innovations for a new or improved good	Only innovations for a new or improved service	Both good and service innovations	Product innovations for a new or improved good	Product innovations for a new or improved service
	%	%	%	%	%	%
Architectural and engineering activities; technical testing and analysis	28,1	6,1	16,4	5,7	11,8	22,0
All NACE - Total	30,5	13,1	8,6	8,8	21,9	17,4
Manufacturing, total	33,2	19,2	4,3	9,7	28,8	14,0
Services, total	27,8	7,0	12,8	8,0	15,0	20,8

Table 6. Developers of product and process innovations by size category of personnel, 2006–2008, share of enterprises with innovations

Industry	Size category of personnel	Developer of product innovations			Developer of process innovations		
		Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions	Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions
		%	%	%	%	%	%
ALL NACE - Total	Total	66,7	28,4	4,9	53,3	37,4	9,3
Manufacturing	10–49	69,3	28,0	2,7	57,3	33,6	9,1
	50–249	75,6	23,3	1,1	47,0	47,0	6,0
	250–	75,8	22,9	1,2	54,0	42,3	3,6
	Total	71,9	26,1	2,1	54,4	37,9	7,8
Services	10–49	57,0	33,7	9,3	52,0	36,5	11,5
	50–249	69,0	23,5	7,5	52,8	35,1	12,1
	250–	75,9	24,1	0,0	48,1	46,5	5,4
	Total	60,5	31,2	8,3	51,9	36,9	11,2

Table 7. Developers of product and process innovations by industry, 2006–2008, share of enterprises with innovations

Industry	Developer of product innovations			Developer of process innovations		
	Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions	Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions
	%	%	%	%	%	%
Mining and quarrying	50,0	50,0	0,0	11,0	65,9	23,2
Food products and beverages	81,1	18,9	0,0	63,2	36,2	0,6
Textiles	82,4	5,8	11,8	69,3	30,7	0,0
Wearing apparel	91,5	8,5	0,0	89,2	10,8	0,0
Leather and related products	44,4	55,6	0,0	33,3	66,7	0,0
Wood, products of wood, and cork	70,4	29,6	0,0	44,6	53,6	1,9
Paper and paper products	77,1	22,9	0,0	44,1	33,0	22,9
Printing and reproduction of recorded media	82,0	18,0	0,0	39,4	40,9	19,7
Chemicals and chemical products	79,0	14,4	6,7	75,2	24,8	0,0
Rubber and plastic products	73,6	26,4	0,0	50,7	43,7	5,5
Other non-metallic mineral products	70,2	29,8	0,0	56,8	43,2	0,0
Basic metals	58,5	41,5	0,0	38,1	49,1	12,8
Fabricated metal products, except machinery and equipment	48,5	41,6	9,9	56,1	33,6	10,3
Computer, electronic and optical products	71,9	28,1	0,0	57,4	36,2	6,4
Electrical equipment	67,3	30,6	2,1	49,1	36,1	14,8
Machinery and equipment n.e.c.	80,6	19,4	0,0	62,0	33,7	4,4
Motor vehicles, trailers and semi-trailers	86,7	13,3	0,0	42,7	45,7	11,6
Other transport equipment	68,5	31,5	0,0	36,5	50,6	12,9
Furniture	77,9	22,1	0,0	49,6	48,8	1,5
Other manufacturing	65,2	34,8	0,0	52,4	44,0	3,6
Repair and installation of machinery and equipment	82,8	17,2	0,0	68,3	31,7	0,0
Electricity, gas, steam and air conditioning supply	44,6	55,4	0,0	21,6	41,3	37,1
Water collection, treatment and supply	66,7	33,3	0,0	0,0	73,6	26,4
Sewerage, waste treatment	62,7	34,3	3,0	68,5	26,6	4,9
Wholesale trade, except of motor vehicles and motorcycles	55,4	36,8	7,9	54,9	41,0	4,0
Transportation and storage	63,5	21,7	14,8	44,3	37,3	18,4
Postal and courier activities	41,2	58,8	0,0	41,5	58,5	0,0
Publishing activities	42,4	43,3	14,4	29,3	67,7	3,0
Telecommunications	38,1	49,9	12,1	58,1	41,9	0,0
Computer programming, consultancy and related activities	84,3	13,1	2,6	77,4	19,2	3,4
Information service activities	62,0	38,0	0,0	74,6	19,4	6,0
Financial service activities	16,6	64,7	18,7	12,4	54,5	33,1
Insurance, reinsurance and pension funding	53,3	46,7	0,0	64,5	24,5	11,0
Activities auxiliary to financial services and insurance activities	100,0	0,0	0,0	50,0	50,0	0,0

Industry	Developer of product innovations			Developer of process innovations		
	Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions	Own enterprise or enterprise group	Own enterprise together with others	Other enterprises or institutions
	%	%	%	%	%	%
Architectural and engineering activities; technical testing and analysis	63,7	26,7	9,6	47,9	27,9	24,2
All NACE - Total	66,7	28,4	4,9	53,3	37,4	9,3
Manufacturing, total	71,9	26,1	2,1	54,4	37,9	7,8
Services, total	60,5	31,2	8,3	51,9	36,9	11,2

Table 8. Enterprises with product innovations by degree of novelty of innovations and size category of personnel, 2006–2008, share of enterprises with product innovations

Industry	Size category of personnel	Only new to market	Only new to enterprise	Both new to market and to enterprise	New to market	New to enterprise
		%	%	%	%	%
All NACE - Total	10–49	25,9	43,5	30,6	56,5	74,1
	50–249	23,9	47,6	28,5	52,4	76,1
	250–	15,7	25,8	58,5	74,2	84,3
	Total	24,4	42,8	32,8	57,2	75,6
Manufacturing	10–49	28,8	43,8	27,5	56,2	71,2
	50–249	22,7	47,7	29,5	52,3	77,3
	250–	15,8	17,4	66,8	82,6	84,2
	Total	25,6	41,8	32,6	58,2	74,4
Services	10–49	23,1	43,2	33,7	56,8	76,9
	50–249	26,0	47,4	26,6	52,6	74,0
	250–	15,5	42,8	41,7	57,2	84,5
	Total	23,1	44,0	32,9	56,0	76,9

Table 9. Enterprises with product innovations by degree of novelty of innovations and industry, 2006–2008, share of enterprises with product innovations

Industry	Only new to market	Only new to enterprise	Both new to market and to enterprise	New to market	New to enterprise
	%	%	%	%	%
Mining and quarrying	33,3	66,7	0,0	33,3	66,7
Food products and beverages	8,8	38,1	53,1	61,9	91,2
Textiles	11,8	47,0	41,2	53,0	88,2
Wearing apparel	29,4	49,6	20,9	50,4	70,6
Leather and related products	37,0	18,5	44,4	81,5	63,0
Wood, products of wood, and cork	28,3	58,1	13,6	41,9	71,7
Paper and paper products	24,6	39,7	35,8	60,3	75,4
Printing and reproduction of recorded media	4,1	87,7	8,2	12,3	95,9
Chemicals and chemical products	23,9	18,9	57,3	81,1	76,1
Rubber and plastic products	26,8	32,4	40,8	67,6	73,2
Other non-metallic mineral products	37,5	27,0	35,4	73,0	62,5
Basic metals	0,0	66,0	34,0	34,0	100,0
Fabricated metal products, except machinery and equipment	30,7	53,1	16,1	46,9	69,3
Computer, electronic and optical products	19,6	25,9	54,5	74,1	80,4
Electrical equipment	21,9	32,2	45,9	67,8	78,1
Machinery and equipment n.e.c.	33,3	35,7	31,0	64,3	66,7
Motor vehicles, trailers and semi-trailers	26,1	47,3	26,6	52,7	73,9
Other transport equipment	54,9	20,0	25,1	80,0	45,1
Furniture	22,1	69,0	8,8	31,0	77,9
Other manufacturing	40,4	18,6	41,0	81,4	59,6
Repair and installation of machinery and equipment	38,8	38,8	22,5	61,2	61,2
Electricity, gas, steam and air conditioning supply	19,7	60,4	19,9	39,6	80,3
Water collection, treatment and supply	0,0	66,7	33,3	33,3	100,0
Sewerage, waste treatment	30,4	47,5	22,1	52,5	69,6
Wholesale trade, except of motor vehicles and motorcycles	29,2	36,5	34,3	63,5	70,8
Transportation and storage	17,6	42,5	39,9	57,5	82,4
Postal and courier activities	0,0	58,8	41,2	41,2	100,0
Publishing activities	22,5	63,4	14,1	36,6	77,5
Telecommunications	15,0	36,5	48,5	63,5	85,0
Computer programming, consultancy and related activities	19,6	50,8	29,6	49,2	80,4
Information service activities	47,9	25,4	26,8	74,6	52,1
Financial service activities	5,4	77,1	17,5	22,9	94,6
Insurance, reinsurance and pension funding	9,9	64,6	25,5	35,4	90,1
Activities auxiliary to financial services and insurance activities	0,0	50,2	49,8	49,8	100,0
Architectural and engineering activities; technical testing and analysis	29,9	30,4	39,7	69,6	70,1
All NACE - Total	24,4	42,8	32,8	57,2	75,6
Manufacturing, total	25,6	41,8	32,6	58,2	74,4
Services, total	23,1	44,0	32,9	56,0	76,9

Table 10. Share of enterprises having produced new products for the market by size category of personnel, 2006–2008

Industry	Size category of personnel	Proportion of all enterprises	Proportion of enterprises with product innovations	Proportion of turnover of all enterprises 2008
		%	%	%
ALL NACE - Total	Total	17,5	57,2	6,3
Manufacturing	10–49	15,4	56,2	3,0
	50–249	22,6	52,3	3,1
	250–	56,4	82,6	10,3
	Total	19,3	58,2	8,3
Services	10–49	14,6	56,8	2,2
	50–249	17,7	52,6	7,4
	250–	26,5	57,2	1,8
	Total	15,6	56,0	3,2

Table 11. Share of enterprises having produced new products for the market by industry, 2006–2008

Industry	Proportion of all enterprises	Proportion of enterprises with product innovations	Proportion of turnover of all enterprises 2008
	%	%	%
Mining and quarrying	2,8	33,3	0,2
Food products and beverages	30,6	61,9	3,0
Textiles	18,6	53,0	6,3
Wearing apparel	27,6	50,4	1,2
Leather and related products	24,2	81,5	5,1
Wood, products of wood, and cork	9,4	41,9	2,4
Paper and paper products	22,4	60,3	3,7
Printing and reproduction of recorded media	2,7	12,3	0,8
Chemicals and chemical products	43,3	81,1	2,7
Rubber and plastic products	31,6	67,6	6,0
Other non-metallic mineral products	18,9	73,0	6,3
Basic metals	8,2	34,0	0,9
Fabricated metal products, except machinery and equipment	10,4	46,9	6,5
Computer, electronic and optical products	44,8	74,1	17,2
Electrical equipment	27,4	67,8	13,2
Machinery and equipment n.e.c.	31,4	64,3	6,0
Motor vehicles, trailers and semi-trailers	22,2	52,7	7,9
Other transport equipment	28,5	80,0	61,3
Furniture	11,4	31,0	4,4
Other manufacturing	46,2	81,4	3,7
Repair and installation of machinery and equipment	10,0	61,2	4,1
Electricity, gas, steam and air conditioning supply	2,8	39,6	0,6
Water collection, treatment and supply	2,8	33,3	0,2
Sewerage, waste treatment	16,6	52,5	1,9
Wholesale trade, except of motor vehicles and motorcycles	21,2	63,5	4,0
Transportation and storage	5,0	57,5	0,7
Postal and courier activities	2,6	41,2	0,8
Publishing activities	10,8	36,6	2,1
Telecommunications	37,3	63,5	2,3
Computer programming, consultancy and related activities	28,5	49,2	4,3
Information service activities	35,6	74,6	3,2
Financial service activities	6,5	22,9	3,5
Insurance, reinsurance and pension funding	11,0	35,4	2,4
Activities auxiliary to financial services and insurance activities	16,6	49,8	1,6
Architectural and engineering activities; technical testing and analysis	19,6	69,6	4,6
All NACE — Total	17,5	57,2	6,3
Manufacturing, total	19,3	58,2	8,3
Services, total	15,6	56,0	3,2

Table 12. Proportions of product innovations and unchanged products of turnover by size category of personnel, 2008

Industry	Size category of personnel	Proportions of the total turnover of all enterprises			Proportions of the total turnover of enterprises with product innovations		
		Products new to the market	Products new only to the enterprise	Unchanged products	Products new to the market	Products new only to the enterprise	Unchanged products
		%	%	%	%	%	%
All NACE — total	Total	6,3	9,3	84,4	9,3	13,8	77,0
Manufacturing	10–49	3,0	3,0	94,0	8,5	8,5	83,0
	50–249	3,1	4,2	92,7	6,9	9,5	83,6
	250–	10,3	16,6	73,1	11,2	18,0	70,8
	Total	8,3	13,1	78,5	10,6	16,8	72,6
Services	10–49	2,2	5,4	92,4	7,1	17,7	75,2
	50–249	7,4	2,3	90,3	17,7	5,6	76,6
	250–	1,8	3,5	94,7	2,7	5,2	92,1
	Total	3,2	3,7	93,1	6,2	7,1	86,7

Table 13. Proportions of product innovations and unchanged products of turnover by industry, 2008, share of total turnover of all enterprises

Industry	Products new to the market	Products new only to the enterprise	Unchanged products
	%	%	%
Mining and quarrying	0,2	0,6	99,3
Food products and beverages	3,0	6,6	90,3
Textiles	6,3	6,8	86,9
Wearing apparel	1,2	14,0	84,9
Leather and related products	5,1	24,5	70,3
Wood, products of wood, and cork	2,4	2,2	95,4
Paper and paper products	3,7	12,7	83,6
Printing and reproduction of recorded media	0,8	3,4	95,8
Chemicals and chemical products	2,7	2,1	95,1
Rubber and plastic products	6,0	5,7	88,3
Other non-metallic mineral products	6,3	4,6	89,1
Basic metals	0,9	6,1	93,0
Fabricated metal products, except machinery and equipment	6,5	3,2	90,2
Computer, electronic and optical products	17,2	33,5	49,3
Electrical equipment	13,2	16,4	70,5
Machinery and equipment n.e.c.	6,0	8,3	85,8
Motor vehicles, trailers and semi-trailers	7,9	4,2	88,0
Other transport equipment	61,3	3,4	35,3
Furniture	4,4	5,3	90,2
Other manufacturing	3,7	16,1	80,1
Repair and installation of machinery and equipment	4,1	0,8	95,1
Electricity, gas, steam and air conditioning supply	0,6	0,3	99,1
Water collection, treatment and supply	0,2	0,2	99,6
Sewerage, waste treatment	1,9	0,9	97,2
Wholesale trade, except of motor vehicles and motorcycles	4,0	3,5	92,5
Transportation and storage	0,7	0,8	98,4
Postal and courier activities	0,8	1,0	98,1
Publishing activities	2,1	2,2	95,7
Telecommunications	2,3	11,5	86,2
Computer programming, consultancy and related activities	4,3	6,0	89,7
Information service activities	3,2	13,2	83,6
Financial service activities	3,5	3,4	93,1
Insurance, reinsurance and pension funding	2,4	6,3	91,4
Activities auxiliary to financial services and insurance activities	1,6	3,8	94,6
Architectural and engineering activities; technical testing and analysis	4,6	3,2	92,2
All NACE — Total	6,3	9,3	84,4
Manufacturing, total	8,3	13,1	78,5
Services, total	3,2	3,7	93,1

Table 14. Prevalence of process innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Process innovations	New methods of manufacturing or producing products	New logistics, delivery or distribution methods	New supporting activities for processes
		%	%	%	%
All NACE - Total	10–49	31,2	20,1	9,9	19,1
	50–249	41,1	27,7	14,7	24,0
	250–	58,0	43,3	28,3	42,3
	Total	34,4	22,6	11,7	21,2
Manufacturing	10–49	34,6	27,7	8,1	17,4
	50–249	45,7	35,1	13,9	24,6
	250–	65,8	56,3	36,7	43,8
	Total	38,8	30,9	11,0	20,5
Services	10–49	28,2	13,2	11,6	20,7
	50–249	34,6	17,0	15,9	23,2
	250–	47,5	25,6	16,7	40,3
	Total	30,0	14,3	12,4	21,9

Table 15. Prevalence of process innovations by industry, 2006–2008, share of enterprises

Industry	Process innovations	New methods of manufacturing or producing products	New logistics, delivery or distribution methods	New supporting activities for processes
	%	%	%	%
Mining and quarrying	12,7	9,9	0,0	9,9
Food products and beverages	47,1	45,2	20,2	17,4
Textiles	32,2	28,5	14,0	14,0
Wearing apparel	20,0	17,9	10,7	6,0
Leather and related products	23,1	7,7	23,1	0,0
Wood, products of wood, and cork	27,6	18,6	10,6	16,6
Paper and paper products	43,2	36,9	11,8	18,4
Printing and reproduction of recorded media	35,3	31,3	5,0	9,0
Chemicals and chemical products	55,5	52,4	13,2	25,2
Rubber and plastic products	49,2	46,4	3,0	25,1
Other non-metallic mineral products	27,1	22,6	11,0	9,8
Basic metals	49,6	47,5	15,9	22,3
Fabricated metal products, except machinery and equipment	44,1	37,9	7,8	21,7
Computer, electronic and optical products	53,3	38,6	21,5	32,5
Electrical equipment	42,8	25,1	11,9	25,2
Machinery and equipment n.e.c.	38,6	30,5	13,5	28,2
Motor vehicles, trailers and semi-trailers	33,0	23,7	4,9	19,8
Other transport equipment	41,1	31,0	12,0	29,7
Furniture	36,8	20,8	19,3	20,0
Other manufacturing	48,3	43,3	8,2	19,8
Repair and installation of machinery and equipment	22,7	14,1	4,4	16,2
Electricity, gas, steam and air conditioning supply	25,6	6,0	4,8	21,8
Water collection, treatment and supply	21,0	7,2	2,8	16,6
Sewerage, waste treatment	45,5	31,0	21,5	24,2
Wholesale trade, except of motor vehicles and motorcycles	33,7	11,9	13,7	22,8
Transportation and storage	16,7	7,5	11,4	12,0
Postal and courier activities	16,9	9,9	16,9	9,9
Publishing activities	26,8	16,0	14,8	18,0
Telecommunications	50,8	38,1	25,1	34,9
Computer programming, consultancy and related activities	44,0	27,6	11,8	35,5
Information service activities	45,0	35,6	19,5	26,8
Financial service activities	31,8	11,2	12,1	23,2
Insurance, reinsurance and pension funding	28,0	18,3	13,2	18,6
Activities auxiliary to financial services and insurance activities	38,9	11,1	2,8	38,9
Architectural and engineering activities; technical testing and analysis	36,4	21,4	10,4	28,9
All NACE - Total	34,4	22,6	11,7	21,2
Manufacturing, total	38,8	30,9	11,0	20,5
Services, total	30,0	14,3	12,4	21,9

Table 16. Prevalence of ongoing and abandoned innovation activities by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Innovation projects	Projects/activities abandoned or suspended before completion	Projects/activities not completed by the end of 2008
		%	%	%
All NACE - Total	10–49	21,0	7,3	19,0
	50–249	32,3	12,6	30,4
	250–	61,5	32,9	60,1
	Total	25,0	9,6	23,1
Manufacturing	10–49	24,1	8,2	22,1
	50–249	36,4	15,0	34,2
	250–	72,9	42,1	72,0
	Total	29,5	11,6	27,5
Services	10–49	18,1	6,6	16,1
	50–249	26,3	9,2	25,0
	250–	46,0	20,4	43,9
	Total	20,5	7,5	18,6

Table 17. Prevalence of R&D by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	In-house R&D	Continuous in-house R&D	Occasional in-house R&D	External R&D	In-house or external R&D
		%	%	%	%	%
All NACE - Total	10–49	71,7	30,4	41,2	43,4	74,8
	50–249	83,5	54,9	28,6	62,9	87,5
	250–	93,9	79,0	14,9	78,8	94,7
	Total	76,1	39,9	36,3	50,6	79,3
Manufacturing	10–49	74,9	34,6	40,3	46,0	77,5
	50–249	88,9	59,9	28,9	67,4	91,5
	250–	98,5	91,8	6,7	86,2	99,0
	Total	80,8	46,6	34,2	55,4	83,2
Services	10–49	68,1	25,8	42,2	40,5	71,8
	50–249	73,8	45,7	28,0	54,6	80,3
	250–	84,8	53,8	31,0	64,4	86,1
	Total	70,1	31,2	38,9	44,6	74,3

Table 18. Prevalence of other innovation activities by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Acquisition of machinery and equipment	Acquisition of external knowledge	Training for innovation activities	Market introduction of innovations	Other innovation activities
		%	%	%	%	%
All NACE - Total	10–49	73,3	37,5	35,8	33,5	33,0
	50–249	76,3	51,2	43,9	42,8	43,1
	250–	81,8	59,1	57,7	68,7	67,3
	Total	74,7	42,3	39,4	38,4	38,0
Manufacturing	10–49	78,8	42,5	36,2	32,5	34,4
	50–249	80,5	48,3	42,9	43,6	44,4
	250–	84,0	59,2	59,2	73,2	71,6
	Total	79,7	45,6	40,1	39,2	40,5
Services	10–49	67,3	32,1	35,3	34,5	31,4
	50–249	68,8	56,5	45,8	41,3	40,7
	250–	77,4	58,7	54,7	59,7	59,0
	Total	68,2	38,2	38,4	37,3	34,8

Table 19. Prevalence of R&D by industry, 2006–2008, share of enterprises with innovation activity

Industry	In-house R&D	Continuous in-house R&D	Occasional in-house R&D	External R&D	In-house or external R&D
	%	%	%	%	%
Mining and quarrying	83,5	41,3	42,2	75,2	83,5
Food products and beverages	82,2	55,1	27,0	49,3	82,2
Textiles	100,0	36,4	63,6	77,1	100,0
Wearing apparel	67,3	44,1	23,2	43,3	67,3
Leather and related products	70,7	58,5	12,2	29,3	70,7
Wood, products of wood, and cork	63,2	30,4	32,7	43,0	69,2
Paper and paper products	76,4	58,6	17,8	57,3	85,9
Printing and reproduction of recorded media	55,1	32,6	22,5	25,5	63,8
Chemicals and chemical products	89,7	79,5	10,3	68,3	92,6
Rubber and plastic products	90,2	49,7	40,5	57,3	90,2
Other non-metallic mineral products	96,7	52,1	44,6	72,6	96,7
Basic metals	100,0	43,9	56,1	90,1	100,0
Fabricated metal products, except machinery and equipment	70,1	24,3	45,8	44,9	73,0
Computer, electronic and optical products	86,6	77,2	9,4	64,5	91,0
Electrical equipment	90,5	81,6	8,9	57,1	90,5
Machinery and equipment n.e.c.	98,8	66,9	31,9	70,1	100,0
Motor vehicles, trailers and semi-trailers	100,0	62,3	37,7	52,3	100,0
Other transport equipment	85,7	46,6	39,1	70,3	96,1
Furniture	65,9	27,3	38,5	57,3	65,9
Other manufacturing	92,8	63,5	29,3	58,9	92,8
Repair and installation of machinery and equipment	73,6	18,0	55,5	36,1	73,6
Electricity, gas, steam and air conditioning supply	66,4	31,5	35,0	65,4	74,6
Water collection, treatment and supply	52,1	10,4	41,7	52,1	62,6
Sewerage, waste treatment	86,0	32,7	53,3	62,5	86,0
Wholesale trade, except of motor vehicles and motorcycles	56,8	21,5	35,3	33,6	62,2
Transportation and storage	55,3	10,0	45,3	35,0	57,7
Postal and courier activities	62,0	41,2	20,8	41,2	62,0
Publishing activities	69,8	27,1	42,7	46,5	76,5
Telecommunications	100,0	74,1	25,9	93,6	100,0
Computer programming, consultancy and related activities	94,2	59,9	34,3	49,4	94,2
Information service activities	100,0	50,6	49,4	70,4	100,0
Financial service activities	49,6	20,4	29,1	59,0	72,5
Insurance, reinsurance and pension funding	79,8	42,0	37,8	44,3	84,2
Activities auxiliary to financial services and insurance activities	50,1	22,3	27,9	5,6	50,1
Architectural and engineering activities; technical testing and analysis	89,4	35,0	54,4	60,7	89,4
All NACE - Total	76,1	39,9	36,3	50,6	79,3
Manufacturing, total	80,8	46,6	34,2	55,4	83,2
Services, total	70,1	31,2	38,9	44,6	74,3

Table 20. Prevalence of other innovation activities by industry, 2006–2008, share of enterprises with innovation activity

Industry	Acquisition of machinery and equipment	Acquisition of external knowledge	Training for innovation activities	Market introduction of innovations	Other innovation activities
	%	%	%	%	%
Mining and quarrying	67,0	50,5	50,5	49,5	58,7
Food products and beverages	85,3	57,2	37,7	46,3	20,7
Textiles	83,7	35,8	36,5	35,8	48,8
Wearing apparel	40,3	40,3	11,2	27,0	38,9
Leather and related products	46,3	41,5	12,2	41,5	41,5
Wood, products of wood, and cork	81,3	50,4	49,6	38,1	33,6
Paper and paper products	69,4	34,0	42,7	51,0	50,5
Printing and reprod. of recorded media	83,4	34,4	39,0	45,1	23,2
Chemicals and chemical products	75,6	43,4	43,8	44,8	57,0
Rubber and plastic products	81,9	42,0	26,6	32,7	36,5
Other non-metallic mineral products	73,0	54,1	23,7	49,0	46,7
Basic metals	90,1	55,4	49,0	21,8	48,6
Fabricated metal products, except machinery and equipment	80,8	47,8	38,7	26,1	30,3
Computer, electronic and optical products	87,6	46,9	60,9	60,5	74,8
Electrical equipment	92,1	46,9	36,8	66,6	65,3
Machinery and equipment n.e.c.	75,2	36,6	45,1	52,3	58,2
Motor vehicles, trailers and semi-trailers	76,3	59,9	49,3	45,8	31,4
Other transport equipment	82,0	37,5	35,7	43,7	55,2
Furniture	81,3	33,8	37,3	20,6	20,1
Other manufacturing	60,9	41,3	30,0	36,6	37,6
Repair and installation of machinery and equipment	82,4	36,1	44,9	40,1	33,5
Electricity, gas, steam and air conditioning supply	81,8	52,3	40,6	13,3	31,5
Water collection, treatment and supply	68,7	41,7	41,7	20,9	41,7
Sewerage, waste treatment	83,1	67,7	40,9	30,5	42,7
Wholesale trade, except of motor vehicles and motorcycles	59,7	29,2	27,7	30,3	22,2
Transportation and storage	79,4	31,3	28,1	14,7	21,9
Postal and courier activities	79,2	41,2	58,4	29,2	32,8
Publishing activities	75,8	51,9	57,8	56,5	37,0
Telecommunications	96,8	67,7	66,6	90,4	75,9
Computer programming, consultancy and related activities	66,5	45,5	48,9	52,3	60,9
Information service activities	79,0	77,8	71,6	79,0	87,7
Financial service activities	66,7	50,7	44,3	39,7	22,2
Insurance, reinsurance and pension funding	75,9	40,7	40,2	28,3	33,2
Activities auxiliary to financial services and insurance activities	44,5	22,3	38,9	72,1	44,5
Architectural and engineering activities; technical testing and analysis	73,6	38,8	42,1	31,7	34,6
All NACE - Total	74,7	42,3	39,4	38,4	38,0
Manufacturing, total	79,7	45,6	40,1	39,2	40,5
Services, total	68,2	38,2	38,4	37,3	34,8

Table 21. Innovation expenditure, 2008, EUR million

Industry	In-house R&D	External R&D	Acquisition of machinery, equipment and software	Acquisition of external knowledge	Total expenditure
Mining and quarrying (TOL 05-09)	4,6	0,8	7,3	0,8	13,5
Food products and beverages (TOL 10-11)	61,2	8,2	95,2	4,0	168,7
Textile, clothing, leather and footwear industry (TOL 13-15)	6,6	1,7	2,2	0,4	11,0
Wood and paper industry (TOL 16-18)	113,1	20,4	497,9	23,7	655,2
Chemical industry (TOL 19-22)	346,1	89,7	129,3	8,1	573,1
Metal and engineering industry (TOL 24-25, 28-30)	564,3	80,2	121,8	23,9	790,3
Electrical and electronics industry (TOL 26-27)	2708,0	425,7	160,1	10,7	3304,5
Other manufacturing (TOL 23, 31-33)	56,8	13,9	22,3	1,6	94,6
Energy and waste management (TOL 35-39)	58,6	120,8	69,1	10,4	258,8
Wholesale trade, except of motor vehicles and motorcycles (TOL 46)	65,2	24,1	38,5	13,7	141,5
Transportation and storage (TOL 49-53)	23,7	23,1	43,4	12,4	102,6
Publishing activities (TOL 58)	9,0	2,1	4,1	1,4	16,6
Telecommunications (TOL 61)	62,7	3,1	18,8	2,2	86,7
Computer programming, consultancy and related activities (TOL 62)	292,6	52,1	19,5	12,2	376,5
Information service activities (TOL 63)	20,7	1,9	2,2	1,3	26,1
Financial and insurance activities (TOL 64)	116,0	74,8	37,2	34,6	262,6
Architectural and engineering activities; technical testing and analysis(TOL 71)	87,4	22,2	7,9	2,5	120,0
All NACE - Total	4596,7	964,8	1276,9	163,7	7002,0
Manufacturing, total	3919,3	761,5	1105,3	83,5	5869,5
Services, total	677,4	203,3	171,6	80,2	1132,5

Table 22. Public financing of innovation activity by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Local or regional authorities	Central government	The European Union (EU)	EUs framework programmes	Received financial support
		%	%	%	%	%
All NACE - Total	10–49	8,7	24,3	6,4	1,0	31,2
	50–249	5,1	34,6	4,6	1,8	38,1
	250–	6,7	56,0	15,8	14,3	57,0
	Total	7,7	29,1	6,7	2,2	34,8
Manufacturing	10–49	13,5	31,0	8,7	0,9	42,6
	50–249	6,8	42,0	5,0	1,6	46,2
	250–	9,4	67,4	18,3	16,1	68,4
	Total	11,3	37,3	8,6	2,5	46,0
Services	10–49	3,4	16,9	3,8	1,1	18,6
	50–249	2,1	21,1	3,9	2,2	23,2
	250–	1,2	33,5	10,7	10,7	34,5
	Total	3,1	18,7	4,3	1,9	20,4

Table 23. Public financing of innovation activity by industry, 2006–2008, share of enterprises with innovation activity

Industry	Local or regional authorities	Central government	The European Union (EU)	EUs framework programmes	Received financial support
Mining and quarrying	0,0	41,3	0,0	0,0	41,3
Food products and beverages	10,7	13,4	10,1	1,6	27,4
Textiles	8,1	52,7	8,1	0,0	52,7
Wearing apparel	8,2	32,1	8,2	8,2	32,1
Leather and related products	0,0	41,5	0,0	0,0	41,5
Wood, products of wood, and cork	33,0	34,3	19,7	0,0	57,9
Paper and paper products	13,1	37,0	9,2	5,5	50,4
Printing and reproduction of recorded media	7,7	16,2	8,0	1,6	17,5
Chemicals and chemical products	6,9	46,0	6,6	4,4	46,0
Rubber and plastic products	12,6	38,1	8,6	0,7	46,9
Other non-metallic mineral products	10,6	38,7	1,9	1,9	38,7
Basic metals	23,3	43,5	24,1	17,4	49,8
Fabricated metal products, except machinery and equipment	13,2	26,8	8,9	0,6	43,3
Computer, electronic and optical products	3,4	70,1	11,3	7,9	70,1
Electrical equipment	11,2	45,3	10,8	2,9	55,0
Machinery and equipment n.e.c.	6,6	69,9	6,1	4,4	71,7
Motor vehicles, trailers and semi-trailers	17,8	44,7	3,4	3,4	52,0
Other transport equipment	16,7	56,0	3,1	3,1	56,0
Furniture	14,5	23,3	6,6	0,0	36,5
Other manufacturing	7,2	24,8	12,0	4,8	32,0
Repair and installation of machinery and equipment	8,8	25,1	8,8	0,0	25,1
Electricity, gas, steam and air conditioning supply	3,5	22,7	5,4	3,5	24,6
Water collection, treatment and supply	10,4	10,4	0,0	0,0	20,9
Sewerage, waste treatment	0,0	21,6	2,1	2,1	23,7
Wholesale trade, except of motor vehicles and motorcycles	1,6	7,8	3,0	0,3	10,8
Transportation and storage	1,1	9,6	1,3	0,7	11,0
Postal and courier activities	0,0	12,0	0,0	0,0	12,0
Publishing activities	1,3	13,7	6,2	1,3	13,7
Telecommunications	18,3	52,9	7,8	7,8	52,9
Computer programming, consultancy and related activities	4,1	41,5	5,3	0,8	41,9
Information service activities	12,3	37,0	12,3	0,0	37,0
Financial service activities	0,0	0,0	0,0	0,0	0,0
Insurance, reinsurance and pension funding	0,0	7,5	0,0	0,0	7,5
Activities auxiliary to financial services and insurance activities	0,0	0,0	0,0	0,0	0,0
Architectural and engineering activities; technical testing and analysis	6,2	31,0	10,0	9,0	34,2
All NACE - Total	7,7	29,1	6,7	2,2	34,8
Manufacturing, total	11,3	37,3	8,6	2,5	46,0
Services, total	3,1	18,7	4,3	1,9	20,4

Table 24. Information sources for innovation activity relating to product and process innovations, 2006–2008, importance of sources, share of enterprises with innovation activity

		High	Medium	Low	Not relevant
		%	%	%	%
All NACE - Total	Own enterprise or enterprise group	62,9	29,3	4,2	3,6
	Suppliers of equipment, materials, components or software	17,8	47,0	24,8	10,4
	Clients or customers	38,1	33,6	17,4	10,9
	Competitors or other enterprises in the sector	11,5	42,9	33,3	12,3
	Consultants, commercial labs or private R&D institutes	4,5	21,4	43,1	31,0
	Universities or other higher education institutions	4,6	18,2	36,2	41,1
	Government or public research institutes	2,1	13,0	36,2	48,8
	Conferences, trade fairs, exhibitions	8,6	39,1	36,6	15,7
	Scientific journals and trade/technical publications	3,8	30,5	47,6	18,1
	Professional and industry associations	1,9	15,5	46,4	36,3
Manufacturing	Own enterprise or enterprise group	63,3	28,6	4,7	3,4
	Suppliers of equipment, materials, components or software	19,4	46,7	25,5	8,4
	Clients or customers	36,2	33,3	19,7	10,8
	Competitors or other enterprises in your sector	11,1	40,9	34,9	13,1
	Consultants, commercial labs or private R&D institutes	4,9	22,3	42,8	30,0
	Universities or other higher education institutions	4,9	19,8	34,5	40,9
	Government or public research institutes	2,7	13,9	35,5	47,8
	Conferences, trade fairs, exhibitions	9,4	41,6	35,7	13,3
	Scientific journals and trade/technical publications	4,4	30,7	48,5	16,4
	Professional and industry associations	2,5	13,1	47,5	36,8
Services	Own enterprise or enterprise group	62,4	30,2	3,5	3,9
	Suppliers of equipment, materials, components or software	15,6	47,4	24,0	13,0
	Clients or customers	40,5	34,0	14,4	11,0
	Competitors or other enterprises in your sector	12,1	45,4	31,2	11,3
	Consultants, commercial labs or private R&D institutes	4,0	20,2	43,4	32,4
	Universities or other higher education institutions	4,2	16,1	38,3	41,3
	Government or public research institutes	1,2	11,8	36,9	50,1
	Conferences, trade fairs, exhibitions	7,6	35,9	37,7	18,7
	Scientific journals and trade/technical publications	3,1	30,3	46,4	20,2
	Professional and industry associations	1,0	18,4	44,9	35,6

Table 25a. Enterprises indicating high or medium importance of information source by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Own enterprise or enterprise group		Suppliers of equipment, materials, components or software		Clients or customers		Competitors or other enterprises in the sector		Consultants , commercial labs or private R&D institutes	
		High	Medium	High	Medium	High	Medium	High	Medium	High	Medium
		%	%	%	%	%	%	%	%	%	%
All NACE - Total	10–49	61,7	30,1	17,4	47,1	35,5	33,0	10,2	42,6	4,4	19,2
	50–249	62,8	29,1	18,5	46,1	41,7	36,5	14,7	40,5	3,9	23,4
	250–	73,8	23,0	19,2	49,1	50,0	30,3	13,2	52,2	7,0	33,8
	Total	62,9	29,3	17,8	47,0	38,0	33,6	11,5	42,9	4,5	21,3
Manufacturing	10–49	62,7	28,9	18,5	46,3	32,2	32,1	9,3	39,7	5,0	19,5
	50–249	61,5	29,3	20,8	46,3	41,3	37,4	13,9	41,7	4,0	24,6
	250–	72,5	24,6	22,0	51,0	49,2	30,3	15,5	47,0	7,0	35,0
	Total	63,3	28,6	19,4	46,7	36,2	33,3	11,1	40,9	4,9	22,3
Services	10–49	60,6	31,4	16,1	47,9	39,0	33,9	11,3	45,8	3,8	18,9
	50–249	65,3	28,6	14,3	45,7	42,4	34,8	16,3	38,1	3,6	21,2
	250–	76,5	19,8	13,7	45,4	51,7	30,5	8,6	62,5	7,1	31,5
	Total	62,4	30,2	15,6	47,4	40,4	33,9	12,1	45,4	4,0	20,1

Table 25b. Enterprises indicating high or medium importance of information source by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Universities or other higher education institutions		Government or public research institutes		Conferences, trade fairs, exhibitions		Scientific journals and trade/technical publications		Professional and industry associations	
		High	Medium	High	Medium	High	Medium	High	Medium	High	Medium
		%	%	%	%	%	%	%	%	%	%
All NACE - Total	10–49	4,0	15,5	1,6	10,1	7,6	38,9	3,6	29,7	1,6	15,3
	50–249	5,1	19,4	2,4	16,8	10,6	40,2	3,8	32,4	2,2	14,2
	250–	8,2	38,5	4,8	27,4	12,3	37,5	6,2	32,7	3,2	20,6
	Total	4,6	18,2	2,1	13,0	8,6	39,1	3,8	30,5	1,9	15,5
Manufacturing	10–49	3,7	15,3	2,2	8,8	7,2	40,2	4,1	27,8	2,6	12,0
	50–249	5,7	22,1	2,5	20,4	13,4	46,2	4,2	36,2	2,5	14,1
	250–	10,6	44,6	7,2	30,8	13,8	38,5	7,1	35,7	2,0	18,3
	Total	4,9	19,8	2,7	13,9	9,4	41,6	4,4	30,7	2,5	13,1
Services	10–49	4,4	15,7	1,0	11,4	8,0	37,6	3,0	31,8	0,5	18,8
	50–249	4,0	14,4	2,2	10,2	5,5	29,2	3,2	25,4	1,7	14,6
	250–	3,4	26,3	0,0	20,6	9,4	35,5	4,6	26,7	5,4	25,1
	Total	4,2	16,1	1,2	11,8	7,6	35,9	3,1	30,3	1,0	18,4

Table 26. Co-operation in innovation activity by significance of co-operating partner, 2006–2008, share of enterprises with innovation activity

		Importance of co-operation partner			
		High	Medium	Low	No co-operation
		%	%	%	%
All NACE - Total	Other enterprises within your enterprise group ¹⁾	19,1	14,1	6,5	60,3
	Suppliers of equipment, materials, components or software	7,7	15,2	11,8	65,3
	Clients or customers	13,3	13,6	7,6	65,5
	Competitors or other enterprises in your sector	2,7	11,0	15,9	70,4
	Consultants, commercial labs or private R&D institutes	2,5	9,3	16,2	72,0
	Universities or other higher education institutions	3,3	12,0	12,5	72,2
	Government or public research institutes	1,8	6,9	14,5	76,9
Manufacturing	Other enterprises within your enterprise group	21,9	16,3	9,8	52,0
	Suppliers of equipment, materials, components or software	9,4	17,5	10,8	62,3
	Clients or customers	13,7	14,5	8,2	63,6
	Competitors or other enterprises in your sector	2,8	11,1	17,7	68,3
	Consultants, commercial labs or private R&D institutes	3,2	10,5	17,7	68,7
	Universities or other higher education institutions	3,6	14,2	13,8	68,4
	Government or public research institutes	2,0	8,6	16,4	73,0
Services	Other enterprises within your enterprise group	16,2	11,9	3,0	69,0
	Suppliers of equipment, materials, components or software	5,6	12,2	13,1	69,2
	Clients or customers	12,9	12,4	6,7	67,9
	Competitors or other enterprises in your sector	2,5	10,9	13,4	73,1
	Consultants, commercial labs or private R&D institutes	1,5	7,9	14,4	76,2
	Universities or other higher education institutions	3,0	9,2	10,8	77,1
	Government or public research institutes	1,5	4,6	12,0	81,9

1) Enterprise groups and enterprises belonging to the group (also in manufacturing and in services).

Table 27. Enterprises with innovation co-operation by co-operation partner and size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Co-operation	Other enterprises within enterprise group ¹⁾	Suppliers of equipment, materials, components or software	Clients or customers	Competitors or other enterprises in your sector	Consultants, commercial labs, or private R&D institutes	Universities or other higher education institutions	Government or public research institutes
		%	%	%	%	%	%	%	%
All NACE - Total	10–49	30,7	27,7	28,8	28,5	24,7	21,5	21,1	17,8
	50–249	43,2	43,2	40,8	41,1	34,2	35,2	34,7	27,2
	250–	72,3	70,4	68,4	68,5	58,6	64,5	67,1	58,0
	Total	36,9	39,7	34,7	34,5	29,6	28,0	27,8	23,1
Manufacturing	10–49	31,4	35,0	29,8	28,0	26,2	23,1	22,2	19,4
	50–249	44,9	44,7	42,8	42,8	34,1	37,1	39,4	32,2
	250–	80,9	78,3	78,1	76,5	62,6	72,4	75,3	65,2
	Total	39,5	48,0	37,7	36,4	31,7	31,3	31,6	27,0
Services	10–49	30,0	23,1	27,8	28,9	23,1	19,8	19,9	16,1
	50–249	40,0	40,0	37,1	38,1	34,5	31,5	26,2	18,1
	250–	55,5	54,2	49,4	52,8	50,6	49,1	50,9	43,8
	Total	33,4	31,0	30,8	32,1	26,9	23,8	22,9	18,1

1) Enterprise groups and enterprises belonging to the group (also in manufacturing and in services).

Table 28. Enterprises with innovation co-operation by co-operation partner and industry, 2006–2008, share of enterprises with innovation activity

Industry	Co-operation	Other enterprises within enterprise group ¹⁾	Suppliers of equipment, materials, components or software	Clients or customers	Competitors or other enterprises in your sector	Consultants, commercial labs or private R&D institutes	Universities or other higher education institutions	Government or public research institutes
	%	%	%	%	%	%	%	%
Mining and quarrying	42,2	37,5	42,2	42,2	42,2	42,2	42,2	42,2
Food products and beverages	16,1	33,3	15,6	16,1	13,7	15,2	13,4	12,0
Textiles	43,8	51,4	39,8	43,8	39,8	39,8	43,8	35,8
Wearing apparel	32,1	33,5	32,1	32,1	32,1	32,1	32,1	32,1
Leather and related products	41,5	58,3	29,3	41,5	41,5	41,5	29,3	29,3
Wood, products of wood, and cork	43,7	37,8	43,7	39,0	35,7	29,6	29,6	24,9
Paper and paper products	60,2	54,0	60,2	57,3	34,8	46,1	39,2	32,7
Printing and reproduction of recorded media	19,8	18,8	19,8	19,8	11,8	12,1	18,2	18,2
Chemicals and chemical products	63,3	58,6	50,8	55,5	46,0	44,7	56,4	47,5
Rubber and plastic products	56,0	60,9	56,0	53,1	44,3	43,3	36,5	38,3
Other non-metallic mineral products	43,4	63,7	39,0	41,2	32,5	27,0	41,2	18,3
Basic metals	60,1	65,5	60,1	50,2	49,8	53,7	60,1	45,5
Fabricated metal products, except machinery and equipment	30,3	28,0	27,9	27,7	23,6	21,2	19,8	17,5
Computer, electronic and optical products	65,4	79,6	64,1	60,8	50,1	48,1	64,1	53,9
Electrical equipment	43,0	50,1	41,5	35,2	29,7	41,6	35,2	26,3
Machinery and equipment n.e.c.	47,2	58,3	46,2	44,2	41,0	40,1	40,1	35,4
Motor vehicles, trailers and semi-trailers	49,3	56,2	49,3	42,1	42,1	34,9	42,1	17,0
Other transport equipment	54,4	50,3	54,4	54,4	43,0	50,5	31,8	30,7
Furniture	12,1	14,0	12,1	12,1	7,7	9,8	3,7	7,7
Other manufacturing	34,6	15,1	29,4	32,0	22,3	24,8	34,6	19,7
Repair and installation of machinery and equipment	22,5	35,5	22,5	22,5	22,5	22,5	22,5	20,3
Electricity, gas, steam and air conditioning supply	51,4	68,2	49,8	46,3	47,9	43,8	51,4	37,5
Water collection, treatment and supply	62,6	31,3	62,6	52,1	52,1	52,1	41,7	41,7
Sewerage, waste treatment	42,3	32,7	36,9	34,8	38,8	42,3	33,4	35,1

Industry	Co-operation	Other enterprises within enterprise group ¹⁾	Suppliers of equipment, materials, components or software	Clients or customers	Competitors or other enterprises in your sector	Consultants, commercial labs or private R&D institutes	Universities or other higher education institutions	Government or public research institutes
	%	%	%	%	%	%	%	%
Wholesale trade, except of motor vehicles and motorcycles	22,1	18,1	21,9	21,8	15,0	17,9	13,3	9,8
Transportation and storage	19,7	28,2	19,2	13,4	17,9	12,1	12,2	9,2
Postal and courier activities	50,0	19,4	29,2	50,0	29,2	29,2	12,0	12,0
Publishing activities	30,5	30,7	28,7	28,7	22,4	25,4	26,8	16,8
Telecommunications	58,7	71,2	58,7	58,7	58,7	51,2	51,2	44,8
Computer programming, consultancy and related activities	41,7	42,4	33,3	41,3	36,5	24,3	30,7	25,5
Information service activities	56,8	52,3	56,8	56,8	32,1	44,4	44,4	32,1
Financial service activities	34,0	44,1	32,8	31,6	30,8	23,8	19,3	12,3
Insurance, reinsurance and pension funding	29,3	30,0	29,3	29,3	24,9	24,9	20,5	20,5
Activities auxiliary to financial services and insurance activities	33,2	37,5	33,2	33,2	33,2	33,2	33,2	33,2
Architectural and engineering activities; technical testing and analysis	56,6	40,3	52,2	56,6	43,8	39,3	38,5	31,7
All NACE - Total	36,9	39,7	34,7	34,5	29,6	28,0	27,8	23,1
Manufacturing, total	39,5	48,0	37,7	36,4	31,7	31,3	31,6	27,0
Services, total	33,4	31,0	30,8	32,1	26,9	23,8	22,9	18,1

1) Enterprise groups and enterprises belonging to the group (also in manufacturing and in services).

Table 29. Co-operation in innovation activity by location of co-operating partner, 2006–2008, share of enterprises with innovation activity

		Finland	Other Europe	United States	China	India	All other countries	Co-operation
		%	%	%	%	%	%	%
All NACE - Total	Other enterprises within your enterprise group ¹⁾	26,8	19,6	6,3	2,8	1,2	2,6	39,7
	Suppliers of equipment, materials, components or software	28,1	17,7	5,5	2,2	0,5	2,5	34,7
	Clients or customers	30,7	16,2	5,5	3,7	1,5	4,6	34,5
	Competitors or other enterprises in your sector	23,7	15,4	4,9	1,8	0,6	2,4	29,6
	Consultants, commercial labs or private R&D institutes	25,6	7,8	1,3	0,9	0,1	0,8	28,0
	Universities or other higher education institutions	27,0	4,2	1,0	0,6	0,1	1,1	27,8
	Government or public research institutes	22,0	4,2	0,7	0,2	0,1	0,6	23,1
Manufacturing	Other enterprises within your enterprise group	31,1	26,6	8,9	4,3	1,7	3,1	48,0
	Suppliers of equipment, materials, components or software	30,1	20,7	4,7	2,5	0,6	2,6	37,7
	Clients or customers	31,0	20,5	6,9	5,2	2,2	5,7	36,4
	Competitors or other enterprises in your sector	23,5	18,6	5,6	1,9	1,0	3,4	31,7
	Consultants, commercial labs or private R&D institutes	28,6	8,9	1,5	0,4	0,1	1,0	31,3
	Universities or other higher education institutions	31,1	4,6	1,0	0,9	0,0	0,8	31,6
	Government or public research institutes	26,5	5,0	0,4	0,3	0,2	0,6	27,0
Services	Other enterprises within your enterprise group	22,1	12,3	3,5	1,3	0,8	2,0	31,0
	Suppliers of equipment, materials, components or software	25,5	13,9	6,5	1,7	0,3	2,4	30,8
	Clients or customers	30,4	10,7	3,8	1,8	0,5	3,0	32,1
	Competitors or other enterprises in your sector	23,9	11,4	3,9	1,5	0,2	1,2	26,9
	Consultants, commercial labs or private R&D institutes	21,8	6,4	0,9	1,6	0,1	0,5	23,8
	Universities or other higher education institutions	21,9	3,7	1,1	0,2	0,2	1,4	22,9
	Government or public research institutes	16,3	3,2	1,1	0,0	0,0	0,6	18,1

1) Enterprise groups and enterprises belonging to the group (also in manufacturing and in services).

Table 30. Co-operation in innovation activity by location of co-operating partner and size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Co-operation	Finland	Other Europe	United States	China	India	All other countries
		%	%	%	%	%	%	%
All NACE - Total	10–49	30,7	30,4	19,5	8,0	4,0	0,6	6,4
	50–249	43,2	42,7	33,7	11,8	8,0	3,3	5,9
	250–	72,3	71,2	65,2	35,5	20,8	13,4	22,8
	Total	36,9	36,4	26,4	11,1	6,3	2,2	7,6
Manufacturing	10–49	31,4	31,2	20,4	5,5	4,9	1,1	7,0
	50–249	44,9	44,2	37,6	13,0	9,2	3,4	7,0
	250–	80,9	79,1	77,4	45,5	27,9	16,0	30,7
	Total	39,5	39,1	30,3	11,2	8,2	3,1	9,2
Services	10–49	30,0	29,4	18,5	10,8	3,0	0,0	5,7
	50–249	40,0	40,0	26,6	9,6	5,9	3,0	4,0
	250–	55,5	55,5	41,1	16,0	6,7	8,3	7,2
	Total	33,4	33,0	21,4	10,9	3,8	1,1	5,5

Table 31. Co-operation in innovation activity by location of co-operating partner and industry, 2006–2008, share of enterprises with innovation activity

Industry	Co-operation	Finland	Other Europe	United States	China or India	Other
	%	%	%	%	%	%
Food products and beverages (TOL 10-11)	16,1	16,1	14,2	2,4	1,3	0,0
Textile, clothing, leather and footwear industry (TOL 13-15)	38,3	35,0	24,2	10,9	4,6	3,3
Wood and paper industry (TOL 16-18)	39,0	38,4	19,6	4,2	2,2	3,2
Chemical industry (TOL 19-22)	59,0	58,5	48,9	22,4	8,2	10,0
Metal and engineering industry (TOL 24-25, 28-30)	38,9	38,5	31,9	11,4	9,7	10,7
Electrical and electronics industry (TOL 26-27)	55,1	55,1	53,2	28,1	30,3	30,9
Other manufacturing (TOL 05-09, 23, 31-33)	26,0	25,6	20,1	5,9	4,2	5,2
Energy and waste management (TOL 35-39)	48,9	48,9	19,3	1,5	1,5	1,5
Wholesale trade, except of motor vehicles and motorcycles (TOL 46)	22,1	20,7	15,8	5,5	1,4	3,3
Transportation and storage (TOL 49-53)	20,7	20,7	11,2	2,3	2,4	0,0
Publishing activities (TOL 58)	30,5	30,5	16,2	0,0	1,3	1,3
Telecommunications (TOL 61)	58,7	58,7	52,9	28,5	8,4	10,2
Computer programming, consultancy and related activities (TOL 62)	41,7	41,7	35,8	18,9	3,1	9,7
Information service activities (TOL 63)	56,8	56,8	7,4	3,7	0,0	0,0
Financial and insurance activities (TOL 64)	33,2	33,2	8,5	4,8	0,8	0,0
Architectural and engineering activities; technical testing and analysis(TOL 71)	56,6	56,6	33,6	28,0	17,6	16,0
All NACE - Total	36,9	36,4	26,4	11,1	6,7	7,6
Manufacturing, total	39,5	39,1	30,3	11,2	8,6	9,2
Services, total	33,4	33,0	21,4	10,9	4,2	5,5

Table 32. Objectives of innovation activity relating to product and process innovations, 2006–2008, importance of objectives, share of enterprises with innovation activity

		High	Medium	Low	Not relevant
		%	%	%	%
All NACE - Total	Increase range of goods and services	41,2	35,8	14,4	8,6
	Replace outdated products and processes	29,2	40,3	19,1	11,4
	Enter new markets	29,6	38,3	20,1	12,0
	Increase market share	37,9	41,4	11,2	9,5
	Improve quality of goods and services	43,0	41,4	8,5	7,1
	Improve flexibility for producing goods and services	30,2	41,9	18,6	9,3
	Improve capacity for producing goods and services	23,7	41,3	21,3	13,7
	Improve health and safety	13,1	33,3	31,4	22,3
	Reduce labour costs per unit output	30,2	41,7	18,8	9,3
Manufacturing	Increase range of goods and services	39,5	35,2	16,5	8,7
	Replace outdated products and processes	30,9	41,0	18,4	9,8
	Enter new markets	28,8	39,2	20,8	11,2
	Increase market share	38,5	40,2	13,4	8,0
	Improve quality of goods and services	43,2	42,0	8,9	5,9
	Improve flexibility for producing goods and services	28,3	44,2	18,7	8,8
	Improve capacity for producing goods and services	25,7	42,6	20,1	11,5
	Improve health and safety	13,0	41,3	30,3	15,4
	Reduce labour costs per unit output	36,8	39,2	17,0	7,1
Services	Increase range of goods and services	43,3	36,5	11,8	8,4
	Replace outdated products and processes	27,2	39,3	20,1	13,5
	Enter new markets	30,5	37,2	19,2	13,1
	Increase market share	37,1	42,9	8,4	11,5
	Improve quality of goods and services	42,8	40,5	8,0	8,7
	Improve flexibility for producing goods and services	32,7	39,0	18,4	9,9
	Improve capacity for producing goods and services	21,0	39,6	22,8	16,5
	Improve health and safety	13,1	23,0	32,8	31,1
	Reduce labour costs per unit output	21,8	45,0	21,0	12,2

Table 33a. Enterprises indicating high or medium importance of objectives (for innovation activity relating to product and process innovations) by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Increase range of products		Replace outdated products/processes		Enter new markets		Increase market share		Improve quality of products	
		High	Medium	High	Medium	High	Medium	High	Medium	High	Medium
		%	%	%	%	%	%	%	%	%	%
All NACE - Total	10–49	39,7	35,7	26,7	40,4	30,1	37,4	36,4	41,0	43,9	39,0
	50–249	41,7	36,6	33,1	40,4	29,1	38,1	41,1	41,3	39,5	48,2
	250–	52,6	34,2	40,6	39,0	26,7	46,7	41,5	45,3	45,7	42,3
	Total	41,2	35,8	29,2	40,3	29,6	38,3	37,9	41,4	43,0	41,4
Manufacturing	10–49	37,8	33,8	28,6	40,9	28,2	37,7	36,4	39,2	45,2	39,1
	50–249	38,8	39,6	32,8	41,9	30,3	40,4	41,6	41,3	37,9	49,8
	250–	53,8	32,3	40,9	39,2	29,1	46,6	43,7	43,7	43,5	40,6
	Total	39,5	35,2	30,9	41,0	28,8	39,2	38,5	40,2	43,2	42,0
Services	10–49	41,9	37,7	24,5	39,8	32,1	37,2	36,4	42,9	42,4	39,0
	50–249	46,9	31,2	33,7	37,6	26,8	33,9	40,2	41,3	42,5	45,1
	250–	50,2	38,2	40,1	38,6	21,8	46,7	37,1	48,4	49,9	45,7
	Total	43,3	36,5	27,2	39,3	30,5	37,2	37,1	42,9	42,8	40,5

Table 33b. Enterprises indicating high or medium importance of objectives (for innovation activity relating to product and process innovations) by size category of personnel, 2006–2008, share of enterprises with innovation activity

Industry	Size category of personnel	Improve flexibility of production		Improve capacity of production		Improve health and safety		Reduce labour costs per unit output	
		High	Medium	High	Medium	High	Medium	High	Medium
		%	%	%	%	%	%	%	%
All NACE - Total	10–49	30,9	41,1	24,2	41,2	13,4	32,6	26,3	43,1
	50–249	29,6	42,4	22,7	42,6	11,3	34,4	38,6	38,5
	250–	25,2	47,1	21,8	38,4	15,0	35,9	40,7	38,8
	Total	30,2	41,9	23,7	41,3	13,1	33,3	30,2	41,7
Manufacturing	10–49	29,7	43,5	27,2	41,4	12,7	42,7	33,2	39,7
	50–249	27,7	44,7	23,5	46,5	11,7	39,2	43,1	38,5
	250–	20,5	47,4	21,6	39,9	18,6	37,1	43,7	37,6
	Total	28,3	44,2	25,7	42,6	13,0	41,3	36,8	39,2
Services	10–49	32,3	38,4	20,9	41,0	14,2	21,5	18,7	46,8
	50–249	33,1	38,2	21,1	35,7	10,7	25,7	30,4	38,7
	250–	34,4	46,5	22,2	35,3	7,8	33,8	34,7	41,2
	Total	32,6	38,8	21,0	39,6	13,1	23,0	21,8	45,0

Table 34. Prevalence of marketing and organisational innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Organisational innovations	Marketing innovations	Marketing or organisational innovations	Product, process or mark/org innovations	Innovation activity, broadly defined	All elements
		%	%	%	%	%	%
All NACE - Total	10–49	20,2	19,2	28,5	45,4	47,7	5,3
	50–249	34,9	26,3	43,8	60,3	63,5	7,7
	250–	56,4	42,5	62,4	77,4	80,7	27,9
	Total	24,7	21,7	33,0	49,7	52,2	6,8
Manufacturing	10–49	16,2	17,9	25,3	47,6	49,9	5,2
	50–249	32,7	27,7	42,9	63,5	67,2	8,9
	250–	60,7	47,8	64,8	83,5	87,9	33,5
	Total	22,3	21,7	31,3	53,1	55,8	7,6
Services	10–49	23,8	20,5	31,5	43,4	45,6	5,3
	50–249	38,1	24,3	44,9	55,8	58,2	6,0
	250–	50,4	35,2	59,1	69,1	71,0	20,3
	Total	27,1	21,7	34,7	46,3	48,6	6,1

Table 35. Prevalence of marketing and organisational innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Organisational innovations	Marketing innovations	Marketing or organisational innovations	Product, process or mark/org innovations	Innovation activity, broadly defined	All elements
	%	%	%	%	%	%
Mining and quarrying	11,4	7,1	12,8	19,8	21,1	0,0
Food products and beverages	28,1	34,7	44,5	62,8	62,8	15,6
Textiles	21,9	22,3	30,2	59,1	59,1	2,0
Wearing apparel	12,9	34,0	43,0	66,0	66,0	1,7
Leather and related products	13,2	15,4	20,9	45,1	45,1	7,7
Wood, products of wood, and cork	10,1	20,2	21,7	41,1	46,3	4,0
Paper and paper products	28,7	33,7	44,0	59,1	62,8	8,9
Printing and reproduction of recorded media	21,6	15,4	27,6	46,1	46,1	1,2
Chemicals and chemical products	37,6	30,1	46,0	80,0	85,5	13,2
Rubber and plastic products	31,4	21,6	35,9	65,5	71,5	13,2
Other non-metallic mineral products	10,6	14,7	18,3	38,1	40,0	4,8
Basic metals	28,6	23,9	34,3	57,5	63,2	14,1
Fabricated metal products, except machinery and equipment	19,7	14,8	26,0	51,2	52,7	2,9
Computer, electronic and optical products	40,7	48,4	58,6	72,1	74,6	24,6
Electrical equipment	35,1	32,3	44,7	57,2	59,9	13,2
Machinery and equipment n.e.c.	28,7	28,7	39,3	61,5	65,8	13,1
Motor vehicles, trailers and semi-trailers	17,7	7,4	23,3	51,1	53,0	1,8
Other transport equipment	23,5	16,1	25,8	48,9	58,3	12,0
Furniture	16,0	21,5	28,7	53,1	54,1	3,0
Other manufacturing	25,4	32,1	42,0	65,2	70,1	13,7
Repair and installation of machinery and equipment	10,7	14,1	16,4	32,0	34,9	2,8
Electricity, gas, steam and air conditioning supply	23,6	10,1	26,1	39,7	48,0	2,0
Water collection, treatment and supply	22,2	16,1	30,0	37,2	39,9	5,5
Sewerage, waste treatment	10,6	8,8	13,5	54,7	54,7	5,8
Wholesale trade, except of motor vehicles and motorcycles	30,0	27,8	40,3	51,4	52,9	6,7
Transportation and storage	14,9	9,2	17,5	25,9	27,8	1,8
Postal and courier activities	6,2	6,2	8,8	16,9	21,3	3,7
Publishing activities	25,5	30,4	38,4	46,4	49,3	4,7
Telecommunications	45,0	42,7	61,7	65,9	65,9	14,4
Computer programming, consultancy and related activities	48,7	34,8	59,5	75,1	79,3	14,9
Information service activities	53,0	45,0	65,1	70,5	70,5	12,8
Financial service activities	28,2	24,8	34,0	50,7	50,7	4,0
Insurance, reinsurance and pension funding	30,0	34,2	44,0	47,1	50,5	11,7
Activities auxiliary to financial services and insurance activities	30,6	13,9	33,4	50,0	50,0	2,8

Industry	Organisational innovations	Marketing innovations	Marketing or organisational innovations	Product, process or mark/org innovations	Innovation activity, broadly defined	All elements
	%	%	%	%	%	%
Architectural and engineering activities; technical testing and analysis	27,0	16,3	34,8	52,7	57,7	7,1
All NACE - Total	24,7	21,7	33,0	49,7	52,2	6,8
Manufacturing, total	22,3	21,7	31,3	53,1	55,8	7,6
Services, total	27,1	21,7	34,7	46,3	48,6	6,1

Table 36. Prevalence of marketing and organisational innovations by form of enterprise, 2006–2008, share of enterprises

Industry	Form of enterprise	Organisational innovations	Marketing innovations	Marketing or organisational innovations	Product, process or mark/org innovations	Innovation activity, broadly defined	All elements
		%	%	%	%	%	%
All NACE - Total	Independent enterprise	18,1	19,4	27,2	44,4	46,5	5,3
	Part of domestic group	33,3	22,8	40,2	55,9	59,1	8,8
	Part of foreign group	40,0	30,3	47,0	63,5	66,4	10,5
Manufacturing	Independent enterprise	15,8	19,5	25,7	48,1	50,5	5,1
	Part of domestic group	31,7	24,5	39,5	59,3	62,4	11,0
	Part of foreign group	43,0	29,5	49,7	71,7	75,9	15,7
Services	Independent enterprise	20,6	19,3	29,0	40,2	42,0	5,4
	Part of domestic group	35,0	21,1	41,0	52,4	55,7	6,6
	Part of foreign group	38,4	30,8	45,6	59,0	61,2	7,7

Table 37. Prevalence of organisational innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Organisational innovations	New business practices	New methods of organising work responsibilities and decision making	New methods of organising external relations
		%	%	%	%
All NACE - Total	10–49	20,2	14,9	14,1	7,8
	50–249	34,9	25,7	26,3	12,0
	250–	56,4	45,9	47,6	27,3
	Total	24,7	18,4	18,0	9,6
Manufacturing	10–49	16,2	12,0	11,3	7,4
	50–249	32,7	24,4	21,9	10,7
	250–	60,7	49,3	50,2	29,4
	Total	22,3	16,8	15,8	9,3
Services	10–49	23,8	17,5	16,7	8,2
	50–249	38,1	27,5	32,4	14,0
	250–	50,4	41,4	44,1	24,5
	Total	27,1	20,0	20,3	9,8

Table 38. Prevalence of organisational innovations by industry, 2006–2008, share of enterprises

Industry	Organisational innovations	New business practices	New methods of organising work responsibilities and decision making	New methods of organising external relations
	%	%	%	%
Mining and quarrying	11,4	7,1	8,5	5,7
Food products and beverages	28,1	19,5	19,6	11,5
Textiles	21,9	14,0	15,7	3,3
Wearing apparel	12,9	10,7	10,7	6,0
Leather and related products	13,2	5,5	7,7	0,0
Wood, products of wood, and cork	10,1	9,2	7,3	4,2
Paper and paper products	28,7	17,7	21,1	13,3
Printing and reproduction of recorded media	21,6	10,0	14,3	8,8
Chemicals and chemical products	37,6	19,2	29,5	16,7
Rubber and plastic products	31,4	27,9	21,3	15,0
Other non-metallic mineral products	10,6	7,6	4,7	4,7
Basic metals	28,6	24,5	18,9	11,8
Fabricated metal products, except machinery and equipment	19,7	15,1	12,6	8,1
Computer, electronic and optical products	40,7	34,8	34,7	17,8
Electrical equipment	35,1	25,2	28,9	12,8
Machinery and equipment n.e.c.	28,7	23,5	21,5	11,2
Motor vehicles, trailers and semi-trailers	17,7	15,9	14,1	8,7
Other transport equipment	23,5	18,7	13,3	11,5
Furniture	16,0	16,0	9,4	5,3
Other manufacturing	25,4	11,7	17,0	13,5
Repair and installation of machinery and equipment	10,7	10,7	9,9	3,5
Electricity, gas, steam and air conditioning supply	23,6	16,1	14,4	10,1
Water collection, treatment and supply	22,2	16,6	13,9	13,9
Sewerage, waste treatment	10,6	4,8	9,6	7,7
Wholesale trade, except of motor vehicles and motorcycles	30,0	21,6	19,6	9,1
Transportation and storage	14,9	12,2	12,2	6,9
Postal and courier activities	6,2	3,7	6,2	6,2
Publishing activities	25,5	19,3	21,2	14,6
Telecommunications	45,0	34,1	32,0	30,7
Computer programming, consultancy and related activities	48,7	33,8	39,1	12,6
Information service activities	53,0	46,3	39,6	24,2
Financial service activities	28,2	17,7	22,9	5,0
Insurance, reinsurance and pension funding	30,0	24,6	25,3	16,6
Activities auxiliary to financial services and insurance activities	30,6	30,6	22,3	8,3
Architectural and engineering activities; technical testing and analysis	27,0	19,0	20,2	12,4
All NACE - Total	24,7	18,4	18,0	9,6
Manufacturing, total	22,3	16,8	15,8	9,3
Services, total	27,1	20,0	20,3	9,8

Table 39. Objectives of organisational innovations, 2006–2008, importance of objectives, share of enterprises with organisational innovations

		High	Medium	Low	Not relevant
		%	%	%	%
All NACE - Total	Reduce time to respond to customer or supplier needs	58,8	30,5	7,2	3,4
	Improve ability to develop new products or processes	40,1	38,1	16,2	5,6
	Improve quality of your goods and services	44,7	41,9	9,4	4,0
	Reduce costs per unit output	37,1	40,5	17,5	4,9
	Improve communication or information sharing within your enterprise or with other enterprises or institutions	31,4	44,0	18,8	5,8
Manufacturing	Reduce time to respond to customer or supplier needs	53,2	33,6	9,8	3,3
	Improve ability to develop new products or processes	41,3	41,5	12,4	4,8
	Improve quality of your goods and services	40,2	48,1	10,2	1,5
	Reduce costs per unit output	41,6	41,3	15,1	2,1
	Improve communication or information sharing within your enterprise or with other enterprises or institutions	26,5	46,8	21,4	5,3
Services	Reduce time to respond to customer or supplier needs	63,4	27,9	5,1	3,5
	Improve ability to develop new products or processes	39,1	35,4	19,3	6,2
	Improve quality of your goods and services	48,4	36,7	8,8	6,0
	Reduce costs per unit output	33,4	39,8	19,6	7,2
	Improve communication or information sharing within your enterprise or with other enterprises or institutions	35,4	41,7	16,7	6,2

Table 40. Enterprises indicating high or medium objectives for organisational innovations by size category of personnel, 2006–2008, share of enterprises with organisational innovations

Industry	Size category of personnel	Reduce time to respond to customer needs		Improve ability to develop new products or processes		Improve quality of goods and services		Reduce costs per unit output		Improve communication or information sharing	
		High	Medium	High	Medium	High	Medium	High	Medium	High	Medium
All NACE - Total	10–49	58,7	30,1	43,3	34,7	47,9	39,4	33,9	41,7	36,5	42,7
	50–249	58,1	31,8	30,9	45,4	40,3	46,5	42,3	39,5	23,1	45,0
	250–	61,2	29,9	43,2	40,6	37,1	45,0	42,8	36,1	22,2	49,0
	Total	58,8	30,5	40,1	38,1	44,7	41,9	37,1	40,5	31,4	44,0
Manufacturing	10–49	50,3	33,9	45,6	36,8	43,8	47,4	37,1	42,8	30,2	46,3
	50–249	55,3	34,3	33,8	48,4	37,8	50,7	48,1	39,8	23,7	46,3
	250–	59,0	31,4	42,0	43,4	32,9	45,1	43,7	39,0	19,5	49,6
	Total	53,2	33,6	41,3	41,5	40,2	48,1	41,6	41,3	26,5	46,8
Services	10–49	63,9	27,7	42,0	33,4	50,4	34,4	31,9	40,9	40,3	40,5
	50–249	61,5	28,7	27,5	41,6	43,5	41,4	35,3	39,1	22,4	43,4
	250–	64,7	27,5	45,3	35,9	44,0	44,8	41,3	31,4	26,8	48,0
	Total	63,4	27,9	39,1	35,4	48,4	36,7	33,4	39,8	35,4	41,7

Table 41. Prevalence of marketing innovations by size category of personnel, 2006–2008, share of enterprises

Industry	Size category of personnel	Marketing innovations	Changes to the aesthetic design or packaging	New media or techniques for product promotion	New methods for product placement or sales channels	New methods of pricing
		%	%	%	%	%
All NACE - Total	10–49	19,2	7,3	12,5	5,0	9,7
	50–249	26,3	10,8	14,7	8,3	11,9
	250–	42,5	19,7	25,8	17,2	22,4
	Total	21,7	8,6	13,6	6,2	10,7
Manufacturing	10–49	17,9	7,8	10,9	2,9	6,8
	50–249	27,7	13,4	15,3	7,8	9,3
	250–	47,8	28,7	31,6	20,6	23,4
	Total	21,7	10,2	13,0	4,9	8,3
Services	10–49	20,5	6,9	14,0	7,0	12,4
	50–249	24,3	7,1	13,8	9,0	15,6
	250–	35,2	7,6	18,0	12,4	21,1
	Total	21,7	6,9	14,2	7,5	13,2

Table 42. Prevalence of marketing innovations by industry, 2006–2008, share of enterprises

Industry	Marketing innovations	Changes to the aesthetic design or packaging	New media or techniques for product promotion	New methods for product placement or sales channels	New methods of pricing
	%	%	%	%	%
Mining and quarrying	7,1	2,8	1,4	2,8	7,1
Food products and beverages	34,7	24,4	17,4	7,0	11,3
Textiles	22,3	16,1	18,6	14,1	14,1
Wearing apparel	34,0	20,8	20,0	3,9	13,2
Leather and related products	15,4	7,7	7,7	0,0	0,0
Wood, products of wood, and cork	20,2	6,1	14,4	3,2	2,7
Paper and paper products	33,7	20,2	23,6	14,9	7,3
Printing and reprod.of recorded media	15,4	3,2	10,4	2,2	4,7
Chemicals and chemical products	30,1	13,6	19,8	11,7	17,0
Rubber and plastic products	21,6	8,8	10,5	4,8	7,3
Other non-metallic mineral products	14,7	5,8	9,9	3,3	4,4
Basic metals	23,9	1,8	17,5	3,6	14,5
Fabricated metal products, except machinery and equipment	14,8	3,6	8,4	1,9	6,8
Computer, electronic and optical products	48,4	28,9	31,7	15,0	29,6
Electrical equipment	32,3	19,4	11,0	7,0	9,6
Machinery and equipment n.e.c.	28,7	16,5	20,0	8,0	11,8
Motor vehicles, trailers and semi-trailers	7,4	3,6	5,6	1,8	1,8
Other transport equipment	16,1	12,0	9,7	8,3	7,9
Furniture	21,5	15,7	6,1	0,7	6,1
Other manufacturing	32,1	18,4	20,4	5,3	10,2
Repair and installation of machinery and equipment	14,1	2,8	11,3	5,6	0,0
Electricity, gas, steam and air conditioning supply	10,1	0,8	7,7	3,1	5,8
Water collection, treatment and supply	16,1	0,0	11,1	0,0	5,0
Sewerage, waste treatment	8,8	0,0	8,8	2,9	5,8
Wholesale trade, except of motor vehicles and motorcycles	27,8	10,9	20,4	10,9	14,8
Transportation and storage	9,2	0,7	4,3	1,1	6,8
Postal and courier activities	6,2	6,2	3,7	0,0	0,0
Publishing activities	30,4	18,3	16,9	9,7	8,9
Telecommunications	42,7	17,1	35,6	23,9	23,9
Computer programming, consultancy and related activities	34,8	12,1	23,2	13,1	25,8
Information service activities	45,0	8,7	33,6	10,7	38,3
Financial service activities	24,8	5,5	12,9	10,9	17,0
Insurance, reinsurance and pension funding	34,2	8,7	22,8	15,0	21,2
Activities auxiliary to financial services and insurance activities	13,9	13,9	8,3	11,1	11,1
Architectural and engineering activities; technical testing and analysis	16,3	2,0	10,4	3,6	10,3
All NACE - Total	21,7	8,6	13,6	6,2	10,7
Manufacturing, total	21,7	10,2	13,0	4,9	8,3
Services, total	21,7	6,9	14,2	7,5	13,2

Table 43. Objectives of marketing innovations, 2006–2008, importance of objectives, share of enterprises with marketing innovations

		High	Medium	Low	Not relevant
		%	%	%	%
All NACE - Total	Increase or maintain market share	66,3	26,5	5,1	2,0
	Introduce products to new customer groups	52,7	33,9	11,2	2,3
	Introduce products to new geographic markets	23,4	29,0	32,0	15,6
Manufacturing	Increase or maintain market share	62,7	31,5	4,1	1,7
	Introduce products to new customer groups	51,2	37,1	10,5	1,3
	Introduce products to new geographic markets	24,5	35,3	31,3	8,9
Services	Increase or maintain market share	69,9	21,6	6,2	2,4
	Introduce products to new customer groups	54,2	30,7	11,9	3,2
	Introduce products to new geographic markets	22,3	22,7	32,8	22,3

Table 44. Enterprises indicating high or medium objectives for marketing innovations by size category of personnel, 2006–2008, share of enterprises with marketing innovations

Industry	Size category of personnel	Increase or maintain market share		Introduce products to new customer groups		Introduce products to new geographic markets	
		High	Medium	High	Medium	High	Medium
		%	%	%	%	%	%
All NACE - Total	10–49	65,9	26,9	53,1	33,2	23,2	27,9
	50–249	66,8	25,6	52,0	34,5	26,0	27,3
	250–	67,8	26,4	51,3	37,6	18,2	40,6
	Total	66,3	26,5	52,7	33,9	23,4	29,0
Manufacturing	10–49	59,7	35,2	51,6	37,4	23,8	36,8
	50–249	66,4	25,7	52,4	33,8	27,4	30,2
	250–	69,3	26,7	46,5	42,4	21,0	39,5
	Total	62,7	31,5	51,2	37,1	24,5	35,3
Services	10–49	70,8	20,3	54,3	29,8	22,8	20,9
	50–249	67,5	25,4	51,3	35,7	23,7	22,8
	250–	65,0	25,9	60,3	28,8	13,0	42,8
	Total	69,9	21,6	54,2	30,7	22,3	22,7

Table 45a. Environmental benefits created by environmental innovations by size category of personnel, 2006–2008, share of enterprises with innovations

Industry	Size category of personnel	Environmental benefits from the production of goods or services					
		Reduced material use per unit of output	Reduced energy use per unit of output	Reduced CO2 "footprint"	Replaced materials with less polluting substitutes	Reduced soil, water, noise, or air pollution	Recycled waste, water, or materials
		%	%	%	%	%	%
All NACE - Total	10–49	29,2	29,9	23,2	22,0	20,7	30,0
	50–249	39,4	40,9	31,8	29,9	28,0	39,8
	250–	56,9	58,9	49,9	40,7	41,8	51,6
	Total	33,6	34,6	27,2	25,2	23,9	33,9
Manufacturing	10–49	37,2	34,5	25,6	26,5	25,0	37,0
	50–249	48,1	46,0	30,3	35,5	33,6	48,1
	250–	66,4	66,2	53,4	49,6	53,2	61,4
	Total	42,7	40,3	29,3	30,9	29,7	42,0
Services	10–49	21,3	25,2	20,8	17,6	16,3	23,1
	50–249	25,4	32,8	34,4	20,9	18,9	26,4
	250–	41,2	46,8	44,2	26,0	23,0	35,4
	Total	23,3	27,9	24,8	18,7	17,2	24,5

Table 45b. Environmental benefits created by environmental innovations by size category of personnel, 2006–2008, share of enterprises with innovations

Industry	Size category of personnel	Environmental benefits from the after sales use of a good or service			Some of environmental benefits (i.e. share of enterprises with the introduction of environmental innovations)
		Reduced energy use	Reduced air, water, soil or noise pollution	Improved recycling of product after use	
		%	%	%	
All NACE - Total	10–49	31,2	19,0	22,0	59,2
	50–249	37,7	22,7	22,9	70,8
	250–	58,0	38,2	36,1	81,5
	Total	34,7	21,3	23,3	63,5
Manufacturing	10–49	31,3	21,4	25,5	68,0
	50–249	39,4	23,9	24,3	79,7
	250–	61,5	45,0	39,9	87,2
	Total	36,1	24,2	26,5	72,8
Services	10–49	31,1	16,7	18,6	50,4
	50–249	34,8	20,6	20,5	56,3
	250–	52,2	26,9	30,0	72,2
	Total	33,1	18,1	19,6	52,8

Table 46a. Environmental benefits created by environmental innovations by industry, 2006–2008, share of enterprises with innovations

Industry	Environmental benefits from the production of goods or services					
	Reduced material use per unit of output	Reduced energy use per unit of output	Reduced CO2 "footprint"	Replaced materials with less polluting substitutes	Reduced soil, water, noise, or air pollution	Recycled waste, water, or materials
	%	%	%	%	%	%
Mining and quarrying	50,0	43,0	43,0	28,1	71,9	57,0
Food products and beverages	50,7	40,9	22,2	32,1	27,4	50,0
Textiles	48,9	41,2	37,8	23,1	16,8	44,1
Wearing apparel	27,1	30,4	7,1	13,6	16,9	41,4
Leather and related products	29,3	12,2	24,4	41,5	41,5	36,6
Wood, products of wood, and cork	39,0	36,5	22,7	21,3	30,9	21,1
Paper and paper products	58,1	38,3	40,0	16,9	30,7	56,6
Printing and reproduction of recorded media	46,1	31,1	26,9	35,0	29,1	45,5
Chemicals and chemical products	38,3	46,5	29,8	38,3	34,6	40,9
Rubber and plastic products	57,8	54,5	43,9	36,4	19,3	49,6
Other non-metallic mineral products	54,5	44,9	41,2	32,8	42,5	55,5
Basic metals	43,1	52,2	38,0	34,0	55,4	53,0
Fabricated metal products, except machinery and equipment	36,2	36,2	20,7	25,5	27,3	36,2
Computer, electronic and optical products	51,7	37,8	24,7	47,6	30,8	51,8
Electrical equipment	51,3	31,9	24,4	38,0	14,9	55,5
Machinery and equipment n.e.c.	35,2	44,2	31,7	29,6	22,9	30,5
Motor vehicles, trailers and semi-trailers	64,9	42,5	43,9	20,1	50,0	31,5
Other transport equipment	35,4	43,8	24,5	45,3	39,1	51,2
Furniture	47,3	44,3	22,3	36,3	35,8	51,1
Other manufacturing	53,5	35,7	30,3	43,8	25,5	48,7
Repair and installation of machinery and equipment	28,6	29,1	37,4	28,6	44,1	48,4
Electricity, gas, steam and air conditioning supply	22,8	30,3	48,0	42,4	34,5	25,0
Water collection, treatment and supply	26,8	49,2	26,8	7,5	37,3	14,9
Sewerage, waste treatment	45,0	64,1	69,8	25,4	55,3	73,5
Wholesale trade, except of motor vehicles and motorcycles	28,6	32,3	24,9	26,4	21,0	36,3
Transportation and storage	28,5	46,1	50,0	30,7	41,8	34,6
Postal and courier activities	36,8	36,8	58,5	15,2	36,8	36,8
Publishing activities	35,3	24,5	20,7	18,7	14,3	16,7
Telecommunications	21,8	35,2	32,6	20,3	10,2	24,4
Computer programming, consultancy and related activities	14,2	21,6	20,2	7,7	4,5	10,3
Information service activities	21,9	28,6	16,2	2,9	9,5	3,8
Financial service activities	15,9	7,4	12,2	8,5	4,4	3,7
Insurance, reinsurance and pension funding	28,7	18,0	18,0	11,1	10,4	17,7

Industry	Environmental benefits from the production of goods or services					
	Reduced material use per unit of output	Reduced energy use per unit of output	Reduced CO2 "footprint"	Replaced materials with less polluting substitutes	Reduced soil, water, noise, or air pollution	Recycled waste, water, or materials
	%	%	%	%	%	%
Activities auxiliary to financial services and insurance activities	16,6	16,6	16,6	16,6	0,0	16,6
Architectural and engineering activities; technical testing and analysis	16,0	17,0	9,1	7,9	6,9	18,6
All NACE - Total	33,6	34,6	27,2	25,2	23,9	33,9
Manufacturing, total	42,7	40,3	29,3	30,9	29,7	42,0
Services, total	23,3	27,9	24,8	18,7	17,2	24,5

Table 46b. Environmental benefits created by environmental innovations by industry, 2006–2008, share of enterprises with innovations

Industry	Environmental benefits from the after sales use of a good or service			Some of environmental benefits
	Reduced energy use	Reduced air, water, soil or noise pollution	Improved recycling of product after use	
	%	%	%	
Mining and quarrying	28,1	28,1	35,2	93,0
Food products and beverages	41,7	14,8	24,4	81,5
Textiles	27,9	17,5	38,4	75,5
Wearing apparel	23,9	6,5	13,6	54,3
Leather and related products	12,2	12,2	24,4	70,7
Wood, products of wood, and cork	24,7	17,4	9,9	63,4
Paper and paper products	25,9	11,9	30,8	84,9
Printing and reproduction of recorded media	19,0	19,0	22,4	59,0
Chemicals and chemical products	26,1	28,5	20,6	71,2
Rubber and plastic products	36,0	24,5	33,9	80,5
Other non-metallic mineral products	46,1	24,1	27,0	84,5
Basic metals	36,0	35,6	30,9	70,0
Fabricated metal products, except machinery and equipment	32,1	17,8	25,5	64,5
Computer, electronic and optical products	27,2	21,4	44,7	83,8
Electrical equipment	31,7	14,8	27,2	82,9
Machinery and equipment n.e.c.	56,0	36,6	22,7	72,3
Motor vehicles, trailers and semi-trailers	41,4	38,6	20,5	89,0
Other transport equipment	39,7	51,2	29,2	65,8
Furniture	29,0	31,5	29,0	62,6
Other manufacturing	33,0	18,3	20,5	77,2
Repair and installation of machinery and equipment	29,1	35,3	35,3	70,9
Electricity, gas, steam and air conditioning supply	49,3	20,0	21,5	78,0
Water collection, treatment and supply	34,2	29,9	7,5	64,1
Sewerage, waste treatment	59,9	63,3	61,4	90,3
Wholesale trade, except of motor vehicles and motorcycles	35,5	21,2	33,2	57,4
Transportation and storage	51,5	31,8	15,5	77,7
Postal and courier activities	21,7	0,0	41,5	84,8
Publishing activities	28,2	16,0	10,9	48,1
Telecommunications	52,9	12,8	16,0	58,7
Computer programming, consultancy and related activities	14,4	4,5	4,5	27,5
Information service activities	32,4	12,4	9,5	32,4
Financial service activities	11,9	0,7	1,7	30,1
Insurance, reinsurance and pension funding	18,0	17,3	13,8	38,7
Activities auxiliary to financial services and insurance activities	16,6	0,0	0,0	33,2
Architectural and engineering activities; technical testing and analysis	41,9	25,0	26,8	61,7
All NACE - Total	34,7	21,3	23,3	63,5
Manufacturing, total	36,1	24,2	26,5	72,8
Services, total	33,1	18,1	19,6	52,8

Table 47. Reasons for implementing environmental innovations by size category of personnel, 2006–2008, share of enterprises with environmental innovations

Industry	Size category of personnel	Existing environmental regulations or taxes on pollution	Environmental regulations or taxes expected to be introduced in the future	Finance or other subsidy for environmental innovation	Market demand from customers for environmental innovations	Codes or agreements for environmental good practice within sector
		%	%	%	%	%
All NACE - Total	10–49	23,2	25,7	10,5	45,8	47,9
	50–249	27,1	30,6	8,5	52,6	44,6
	250–	43,9	50,4	13,7	72,6	59,0
	Total	26,2	29,4	10,3	50,1	48,1
Manufacturing	10–49	21,7	21,5	12,3	42,2	41,0
	50–249	27,3	31,8	9,5	52,8	43,6
	250–	53,1	58,4	18,4	72,3	59,0
	Total	26,6	28,3	12,1	48,4	43,7
Services	10–49	25,2	31,5	8,0	50,7	57,0
	50–249	26,7	28,0	6,1	52,1	47,0
	250–	25,4	34,6	4,3	73,2	59,1
	Total	25,5	31,1	7,3	52,9	55,2

Table 48. Reasons for implementing environmental innovations by industry, 2006–2008, share of enterprises with environmental innovations

Industry	Existing environmental regulations or taxes on pollution	Environmental regulations or taxes expected to be introduced in the future	Finance or other subsidy for environmental innovation	Market demand from customers for environmental innovations	Codes or agreements for environmental good practice within sector
	%	%	%	%	%
Mining and quarrying	22,7	38,7	7,6	84,9	69,7
Food products and beverages	15,0	24,2	11,2	40,2	34,5
Textiles	13,9	23,0	9,3	45,3	45,3
Wearing apparel	12,0	12,0	6,0	50,1	25,1
Leather and related products	34,5	17,2	17,2	41,4	17,2
Wood, products of wood, and cork	19,9	20,1	13,7	34,6	39,8
Paper and paper products	36,2	24,3	6,3	73,6	40,3
Printing and reproduction of recorded media	22,8	27,2	19,5	58,4	41,3
Chemicals and chemical products*	30,9	30,7	15,9	48,3	52,2
Rubber and plastic products	17,6	20,1	11,6	41,9	40,8
Other non-metallic mineral products	34,3	52,3	24,7	61,0	43,1
Basic metals	45,2	45,7	24,8	45,2	54,3
Fabricated metal products, except machinery and equipment	21,1	21,5	11,3	42,3	50,6
Computer, electronic and optical products	41,2	28,3	1,1	49,2	46,9
Electrical equipment	30,4	33,0	1,7	55,7	51,6
Machinery and equipment n.e.c.	31,5	32,1	14,6	66,4	34,3
Motor vehicles, trailers and semi-trailers	45,0	41,0	0,0	39,4	24,3
Other transport equipment	17,0	25,5	7,1	49,1	42,9
Furniture	19,7	20,5	13,7	33,9	28,8
Other manufacturing	13,5	10,5	0,0	30,2	26,7
Repair and installation of machinery and equipment	43,4	55,9	15,5	31,0	43,4
Electricity, gas, steam and air conditioning supply	47,4	39,3	26,4	58,3	68,1
Water collection, treatment and supply	34,9	23,3	23,3	46,6	46,6
Sewerage, waste treatment**	37,6	49,4	19,7	57,8	76,5
Wholesale trade, except of motor vehicles and motorcycles	29,0	40,5	11,0	63,1	60,8
Transportation and storage	37,2	38,2	9,6	50,6	69,0
Postal and courier activities	0,0	17,9	0,0	43,4	48,9
Publishing activities	10,5	14,0	5,1	19,7	43,3
Telecommunications	17,3	17,3	12,9	49,0	54,4
Computer programming, consultancy and related activities	8,7	7,6	2,7	47,6	20,2
Information service activities	0,0	0,0	0,0	50,0	11,8
Financial service activities	5,7	5,7	0,0	34,6	28,0
Insurance, reinsurance and pension funding	8,9	8,9	0,0	36,5	36,5
Activities auxiliary to financial services and insurance activities	0,0	0,0	0,0	50,0	50,0

Industry	Existing environmental regulations or taxes on pollution	Environmental regulations or taxes expected to be introduced in the future	Finance or other subsidy for environmental innovation	Market demand from customers for environmental innovations	Codes or agreements for environmental good practice within sector
	%	%	%	%	%
Architectural and engineering activities; technical testing and analysis	25,2	30,9	1,5	51,1	56,0
All NACE - Total	26,2	29,4	10,3	50,1	48,1
Manufacturing, total	26,6	28,3	12,1	48,4	43,7
Services, total	25,5	31,1	7,3	52,9	55,2

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