

Enterprises' innovation activity 2016-2018

1 Responding enterprise and contact person's information

Name of enterprise

Address

Business ID

Main activity / industry

This survey concerns your enterprise's activities in Finland.

If your enterprise is part of an enterprise group

- please answer all further questions about your enterprise only for its own activities in Finland
- exclude the activities of all subsidiaries or parent enterprises

Name of contact person

Position in the enterprise

Email

Telephone

More information

2 Strategies and Knowledge Flows

2.1 During the three years 2016 to 2018, did your enterprise:

	Yes	No
Apply for a patent	<input type="checkbox"/>	<input type="checkbox"/>
Apply for a utility model	<input type="checkbox"/>	<input type="checkbox"/>
Register an industrial design right	<input type="checkbox"/>	<input type="checkbox"/>
Register a trademark	<input type="checkbox"/>	<input type="checkbox"/>
Claim a copyright	<input type="checkbox"/>	<input type="checkbox"/>
Use trade secrets	<input type="checkbox"/>	<input type="checkbox"/>

2.2 During the three years 2016 to 2018, did your enterprise:

	Yes	No
License out its own intellectual property rights (IPRs) to others	<input type="checkbox"/>	<input type="checkbox"/>
Sell its own IPRs (or assign IP rights) to others	<input type="checkbox"/>	<input type="checkbox"/>
Exchange IPRs (pooling, cross-licensing, etc.)	<input type="checkbox"/>	<input type="checkbox"/>

2.3 During the three years 2016 to 2018, did your enterprise purchase or license-in patents or other IPRs?

		Tick all that apply
Yes	<input type="checkbox"/>	
	if yes:	
	from private business enterprises or individuals	<input type="checkbox"/>
	from public research organisations, universities or other higher education institutions	<input type="checkbox"/>
No	<input type="checkbox"/>	

2.4 During the three years 2016 to 2018, did your enterprise purchase technical services?

Technical service' includes any consulting activity that involves any kind of technical, scientific or engineering information, e.g. engineering services, measurement and testing services, industrial design services, R&D services, certification services, installation, refitting and retrofitting services.

		Tick all that apply
Yes	<input type="checkbox"/>	
	if yes:	
	from private business enterprises	<input type="checkbox"/>
	from public research organisation, universities or other higher education institutions	<input type="checkbox"/>
No	<input type="checkbox"/>	

2.5 During the three years 2016 to 2018, did your enterprise purchase machinery, equipment or software based on

	Yes	No
The same or improved technology used in your enterprise before	<input type="checkbox"/>	<input type="checkbox"/>
New technology that was not used in your enterprise before	<input type="checkbox"/>	<input type="checkbox"/>

2.6 During the three years 2016 to 2018, did your enterprise use any of the following channels to acquire knowledge?

	Yes	No
Conferences, trade fairs or exhibitions	<input type="checkbox"/>	<input type="checkbox"/>
Scientific/technical journals or trade publications	<input type="checkbox"/>	<input type="checkbox"/>
Information from professional or industry associations	<input type="checkbox"/>	<input type="checkbox"/>
Information from published patents	<input type="checkbox"/>	<input type="checkbox"/>
Information from standardisation documents or committees	<input type="checkbox"/>	<input type="checkbox"/>
Social web-based networks or crowd-sourcing	<input type="checkbox"/>	<input type="checkbox"/>
Open business-to-business platforms or open-source software	<input type="checkbox"/>	<input type="checkbox"/>
Extracting knowledge or design information from goods or services (reverse engineering)	<input type="checkbox"/>	<input type="checkbox"/>

2.7 During the three years 2016 to 2018, how important to the management of your business were the following methods of organising work?

	Degree of importance			
	High	Medium	Low	Not important
Planned job rotation of staff across different functional areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regular brainstorming sessions for staff to think about improvements that could be made within the business	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross-functional work groups or teams (combined across different working areas or functions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3A Innovation

A **product innovation** is a new or improved good or service that differs significantly from the firm's previous goods or services and which has been implemented on the market.

Exclude

- the simple re-sale of new goods
- changes of a solely aesthetic nature

3.1 During the three years 2016 to 2018, did your enterprise introduce any:

	Yes	No
New or improved goods	<input type="checkbox"/>	<input type="checkbox"/>
New or improved services	<input type="checkbox"/>	<input type="checkbox"/>

If 'no' to all options go to question 3.6.

3.2 In the three years 2016 to 2018, did your enterprise introduce any new or improved products (goods or services) that were:

	Yes	No
Not previously offered by any of your competitors (and which thus were new to your market)	<input type="checkbox"/>	<input type="checkbox"/>
Identical or very similar to products already offered by your competitors (but were new to your enterprise)	<input type="checkbox"/>	<input type="checkbox"/>

3.3 Please estimate the percentage of your enterprise's total turnover in 2018 from products (goods or services) that were, in the three years 2016 to 2018:

<u>New or improved products</u> not previously offered by any of your competitors	_____	%
<u>New or improved products</u> identical or very similar to products already offered by your competitors	_____	%
<u>Unchanged products (or with only minor changes)</u> (Includes the resale of new products purchased from other enterprises.)	_____	%
Total turnover in 2018	=100	%

3.4 Who developed these product innovations?

Tick all that apply

- | | |
|---|--------------------------|
| Your enterprise by itself | <input type="checkbox"/> |
| Your enterprise together with other enterprises or organisations* | <input type="checkbox"/> |
| Your enterprise by adapting or modifying products originally developed by other enterprises or organisations* | <input type="checkbox"/> |
| Other enterprises or organisations* | <input type="checkbox"/> |

* Include independent enterprises plus other parts of your enterprise group (subsidiaries, sister enterprises, head office, etc.). Organisations include universities, research institutes, non-profits, etc.

3.5 How did the new or improved product(s), introduced during 2016 to 2018, meet your enterprise's expectations by the end of 2018:

Tick only one

- | | |
|---|--------------------------|
| Expectations were exceeded | <input type="checkbox"/> |
| Expectations were adequately met | <input type="checkbox"/> |
| Expectations were met only to some extent | <input type="checkbox"/> |
| Expectations were not met at all | <input type="checkbox"/> |
| Too early to assess | <input type="checkbox"/> |

A **business process innovation** is a new or improved business process for one or more business functions that differs significantly from the firm's previous business processes and which has been implemented within the firm.

3.6 During the three years 2016 to 2018, did your enterprise introduce any of the following types of new or improved processes that differ significantly from your previous processes?

	Yes	No
Methods for producing goods or providing services (including methods for developing goods or services)	<input type="checkbox"/>	<input type="checkbox"/>
Logistics, delivery or distribution methods	<input type="checkbox"/>	<input type="checkbox"/>
Methods for information processing or communication	<input type="checkbox"/>	<input type="checkbox"/>
Methods for accounting or other administrative operations	<input type="checkbox"/>	<input type="checkbox"/>
Business practices for organising procedures or external relations	<input type="checkbox"/>	<input type="checkbox"/>
Methods of organising work responsibility, decision making or human resource management	<input type="checkbox"/>	<input type="checkbox"/>
Marketing methods for promotion, packaging, pricing, product placement or after sales services	<input type="checkbox"/>	<input type="checkbox"/>

If 'no' to all options go to question 3.9.

3.7 Who developed these process innovations?

Tick all that apply

- Your enterprise by itself
- Your enterprise together with other enterprises or organisations*
- Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations*
- Other enterprises or organisations*

* Include independent enterprises plus other parts of your enterprise group (subsidiaries, sister enterprises, head office, etc.). Organisations include universities, research institutes, non-profits, etc.

3.8 How did the new or improved processes introduced during 2016 to 2018 meet your enterprise's expectations by the end of 2018:

Tick only one

- Expectations were exceeded
- Expectations were adequately met
- Expectations were met only to some extent
- Expectations were not met at all
- Too early to assess

Innovation activity includes all developmental, financial and commercial activities, undertaken by an enterprise, which are intended to or result in an innovation.

Research and Development (R&D) comprises creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge.

3.9 During the three years 2016 to 2018, did your enterprise have any of the following types of innovation activities? (Activities leading to expenditures)

	Yes	No
Completed activities on product or process innovation	<input type="checkbox"/>	<input type="checkbox"/>
Ongoing innovation activities at the end of 2018	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned innovation activities	<input type="checkbox"/>	<input type="checkbox"/>
In-house research and development (R&D) activities	<input type="checkbox"/>	<input type="checkbox"/>
if 'yes': did your enterprise perform in-house R&D during the three years 2016 to 2018:		
Continuously	<input type="checkbox"/>	
Occasionally	<input type="checkbox"/>	
Contract-out R&D to other enterprises (include enterprises in your own group) or to public or private research organisations)	<input type="checkbox"/>	<input type="checkbox"/>

If 'no' to all options go to question 3.11.

3.10 How much did your enterprise spend on innovation and research and development (R&D) in 2018?

- Please note that question 3.10 refers, exceptionally, only to the year 2018, not the three year period 2016 to 2018.
- Please tick 'none' for all categories if your enterprise did not have any expenditure on innovation and/or R&D in 2018.

Expenditures on innovation and R&D in 2018		
R&D performed in-house (Include current expenditures including labour costs and capital expenditures (buildings, machinery, equipment, software etc.) specifically for R&D)	_____000 €	<input type="checkbox"/> none
R&D contracted out to others (including enterprises in own enterprise group)	_____000 €	<input type="checkbox"/> none
All other innovation expenditures* (i.e. excluding R&D)	_____000 €	<input type="checkbox"/> none
Of which:		
Own personnel working on innovation	_____000 €	<input type="checkbox"/> none
Services, materials, supplies purchased from others for innovation	_____000 €	<input type="checkbox"/> none
Capital goods for innovation (acquisition of machinery, equipment, software, IPRs, buildings etc.)	_____000 €	<input type="checkbox"/> none

* Include:

- Acquisition of machinery equipment, software, IPRs or buildings for innovation activities other than R&D
- Acquisition of external knowledge for innovation activities other than R&D (e.g. patents, licenses, trademarks)
- Product design of goods, service design, preparation of production/distribution for innovation activities other than R&D
- Training and professional development for innovation activities other than R&D (e.g. employee training or continued education)
- Marketing of innovations (marketing activities directly related to innovations, including market research)

3.11 During the three years from 2016 to 2018, did your enterprise try to obtain the following types of funding? If funding was obtained successfully, was this funding used for R&D or other innovation activities?

	Try to obtain funding			If your enterprise obtained funding, was this partly or fully used for R&D or other innovation activities?	
	Yes, successfully obtained some funding of this type	Tried, but not successfully	No	Yes	No
Equity finance (finance provided in exchange for a share in the ownership of the enterprise)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Debt finance (finance that the enterprise must repay)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.12 During the three years from 2016 to 2018, did your enterprise receive any public financial support from the following levels of government?

Include financial support via grants, subsidised loans, and loan guarantees.

Exclude revenues from public sector* procurement contracts.

			If your enterprise received financial support, was part of this used for R&D or other innovation activities?	
	Yes	No	Yes	No
Local or regional authorities*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National government (for example Business Finland)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EU Horizon 2020 Programme for Research and Innovation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other financial support from a European Union institution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* The public sector includes government owned organisations such as local, regional and national administrations and agencies, schools, hospitals, and government providers of services such as security, transport, housing, energy, etc.

3.13 During the three years 2016 to 2018, did your enterprise co-operate* with other enterprises or organisations?

	Yes	No
a) On R&D	<input type="checkbox"/>	<input type="checkbox"/>
b) On other innovation activities (excluding R&D)	<input type="checkbox"/>	<input type="checkbox"/>
c) On any other business activities	<input type="checkbox"/>	<input type="checkbox"/>

Co-operation is active participation with other enterprises or organisations. Partners do not need to commercially benefit. Exclude pure contracting out of work with no active co-operation.

If 'yes' to either option a) or b), go to question 3.14

3.14 Please indicate the type of innovation co-operation partner by location

Tick all that apply

Type of co-operation partner	Finland	Other EU* or EFTA**	All other countries
Private business enterprises outside your enterprise group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consultants, commercial labs, or private research institutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Suppliers of equipment, materials, components or software	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprises that are your clients or customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprises that are your competitors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other enterprises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprises within your enterprise group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities of applied sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Government or public research institutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clients or customers from the public sector***	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-profit organisations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clients or customers from the private sector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* The Member States of the European Union (EU) are: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovenia, Slovakia, Spain, Sweden, and the United Kingdom

** Iceland, Liechtenstein, Norway, Switzerland

*** The public sector includes government owned organisations such as local, regional and national administrations and agencies, schools, hospitals, and government providers of services such as security, transport, housing, energy, etc.

3.15 During the three years 2016 to 2018, has legislation or regulation affected your enterprises' innovation activities in any of the ways?

Type of legislation or regulation	Initiated or facilitated innovation activities	Prevented, hampered or increased costs of innovation activities	Had no effect / not relevant
	Tick all that apply		
Product safety, consumer protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intellectual property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employment, worker safety or social affairs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data protection (such as GDPR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traffic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.16 During the three years 2016 to 2018, how important were the following factors in hampering your enterprises' decision to start innovation activities, or its execution of innovation activities?

	Degree of importance			
	High	Medium	Low	Not a constraint
Lack of internal finance for innovation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lack of credit or private equity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Difficulties in obtaining public grants or subsidies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Costs too high	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lack of skilled employees within your enterprise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lack of collaboration partners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lack of access to external knowledge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uncertain market demand for your ideas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Too much competition in your market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Different priorities within your enterprise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4 Utilisation of data and digitalisation in enterprises business activities

Here, data refers to both big data, as well as data from the business's own activity, and to public sector open data.

4.1 How important were the following issues related to data usage for your enterprise during 2016 to 2018?

	Importance			
	High	Medium	Low	Not relevant
Use of data in developing new goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of data in improving goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of data in other innovation activity, i.e. in the development of production process or other business processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of data in research and development activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of data in managing the production process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of data in marketing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selling data (e.g. customer data) to other enterprises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buying data (e.g. customer data) from other enterprises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Digitalisation refers to transferring goods, services and their production or distribution to electronic format.

4.2 How important were the following issues related to digitalisation for your enterprise's business activity during 2016 to 2018?

	Importance			
	High	Medium	Low	Not relevant
Digital goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cloud services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social media (e.g. Facebook, Twitter, LinkedIn)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internet of Things IoT (devices connected to an information network)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robotics in production processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digitalisation in producing goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digitalisation in designing goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digitalisation in marketing goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digitalisation in distributing goods and/or services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5 Collaboration and connections between enterprises and universities, universities of applied sciences or research institutes

Here, data refers to both big data, as well as data from the business's own activity, and to public sector open data.

Collaboration between enterprises and research organisations refers to organised, active cooperation, as well as other transfer of know-how, collaboration and goal-oriented interaction or communication.

Research organisations refer to both domestic and foreign **universities, universities of applied sciences and research institutes**.

5.1 Did your enterprise cooperate with the following research organisations during 2016 to 2018?

	Universities	Universities of applied sciences	Research institutes	No co-operation
Innovation cooperation (Active participation of R&D and other innovation projects, exclude pure contracting out of work)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other cooperation than innovation cooperation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no to both options, go to 5.4.

5.2 What results have your enterprise's cooperation with research organisations led to during 2016 to 2018 or is expected to lead to by the end of 2020?

(Tick all that apply)

	Universities	Universities of applied sciences	Research institutes	Not relevant
Strengthening the knowledge base and competence including patents and other IPR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
An overview of future trends and markets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Introduction of a new technology, method or device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New or improved products (goods or services)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access to, or progress on, international markets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Widening of cooperation with research organisation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Participation in international research and innovation programmes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other results, what _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5.3 How have the forms and meaning of research organisation cooperation developed from the point of view of your enterprise during the years 2016 to 2018 compared to before?

	Importance			
	Increased	Stayed unchanged	Decreased	No co-operation
Contracted out R&D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Joint development of co-creation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education cooperation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of research organisation's research infrastructure and services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demo, piloting or product testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internships or graduation theses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recruitment of new experts to your enterprise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Some else, what _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5.4 Evaluate the meaning and the importance of the following cooperation partners to your enterprise's R&D or other innovation activities until the end of 2020:

	Importance			
	Increasing	Staying unchanged	Decreasing	No co-operation
Universities in Finland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities abroad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities of applied sciences in Finland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities of applied sciences abroad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Research institutes in Finland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Research institutes abroad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprises in Finland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprises abroad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6 Additional information about the enterprise

6.1. The average number of persons employed by your enterprise in 2018 _____

Total number of persons (headcount) who work in the enterprise (inclusive of working proprietors, partners working regularly in the unit and unpaid family workers), as well as persons who work outside the enterprise's premises and are paid by it (e.g. sales representatives, delivery personnel, repair and maintenance teams). It excludes manpower supplied to the enterprise by other enterprises, persons carrying out repair and maintenance work in the enterprise on behalf of other enterprises, as well as those on compulsory military service.

6.2 Your enterprise's total turnover in 2018 _____ 000 EUR

For Credit institutions: Interests receivable and similar income; for Insurance services give gross premiums written.

6.3 Approximately, what was the percentage of turnover in 2018 from

Customers located in Finland	_____ %
Customers located in other EU* and EFTA** countries	_____ %
Customers located in countries not included above	_____ %
Total	100 %

* The Member States of the European Union (EU) are: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovenia, Slovakia, Spain, Sweden, and the United Kingdom.

** Iceland, Liechtenstein, Norway, Switzerland.

6.4 How much did your enterprise spend in 2018 on the following items?

	Total expenditure in 2018	
(Notes and definitions in the annex)		
Acquisition of machinery, equipment, buildings and other tangible assets	_____ 000 €	<input type="checkbox"/> none
Marketing, brand building, advertising (include in-house costs and purchased services)	_____ 000 €	<input type="checkbox"/> none
Training own staff (include all in-house costs including wages and salaries of staff while being trained, and costs of purchased services from others)	_____ 000 €	<input type="checkbox"/> none
Product design (include in-house costs and purchased services)	_____ 000 €	<input type="checkbox"/> none
Software development, database work and data analysis (include in-house costs and purchased services)	_____ 000 €	<input type="checkbox"/> none
Registering, filing and monitoring own Intellectual Property Rights (IPRs) and purchasing or licensing IPRs from others	_____ 000 €	<input type="checkbox"/> none

Answer questions 6.5 to 6.7 only if your enterprise is part of an enterprise group

6.5 In 2018, was your enterprise part of

	Yes	No
a) an enterprise group* with the head office located in Finland	<input type="checkbox"/>	<input type="checkbox"/>
If yes, are all of the enterprises of that group located in Finland	<input type="checkbox"/>	<input type="checkbox"/>
b) an enterprise group* with the head office located abroad	<input type="checkbox"/>	<input type="checkbox"/>
If yes, country in which head office is located _____		

* A group consists of two or more legally defined enterprises under common ownership. Each enterprise in the group can serve different markets, as with national or regional subsidiaries, or serve different product markets. The head office is also part of an enterprise group.

6.6 During the three years from 2016 to 2018, did your enterprise engage in any of the following activities with one or more enterprises of your enterprise group?

	Yes, Other enterprises in Finland	Yes, other enterprises abroad	No
	Tick all that apply		
<u>Inflows from other enterprises in your group:</u>			
Receiving technical knowledge*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Receiving financial resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Receiving personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-sourcing of business activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Outflows to other enterprises in your group:</u>			
Transferring technical knowledge*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transferring financial resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transferring personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Out-sourcing of business activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Technical knowledge includes all knowledge needed to solve technical problems in the production process; it excludes all general knowledge not specifically needed to solve particular technical problems.

6.7 During the three years from 2016 to 2018, did your enterprise try to obtain funding in the form of intra-group loans? If funding was obtained successfully, was this funding used for R&D or other innovation activities?

Try to obtain intra-group loans			If your enterprise obtained funding in the form of intra-group loans, was this partly or fully used for R&D or other innovation activities?	
Yes, successfully obtained some funding of this type	Yes, but not successful	No	Yes	No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes and instructions for the expenditure questions 3.10 and 6.4

The allocation of staff for each activity can be used as reference for providing expenditures.

Question 3.10

Research and Development (R&D)

R&D comprise creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge.

Performed in-house: R&D undertaken by your enterprise to create new knowledge or solve scientific or technical problems. Include current expenditures including labour costs and capital expenditures on buildings and equipment specifically for R&D).

R&D contracted out: Your enterprise contracted-out R&D to other enterprises (include enterprises in your own group) or to public or private research organisations.

Other innovation expenditure

All other activities related to the development of new or significantly improved products and processes.

Question 6.4

Machinery, Equipment and Buildings

Expenditures for purchasing physical capital goods (land and buildings, machinery and instruments, transport equipment and other equipment) and current costs for lease of tangible assets.

Exclude leasing costs for other capital goods (not contributing to asset creation).

Marketing and Branding

Internal or external work intended to enhance reputation or brand values, either of the business as a whole or individual goods or service lines, as well as to support the market placement of new goods and services. For example: market research, market tests, development of marketing strategies and methods, product launches, promotional campaigns, 'rebranding' of business, development of promotional materials, etc..

Include: (a) staff costs of all staff involved (b) associated costs, including office facilities, overheads and materials but not capital items; (c) external costs of advertising and marketing campaigns to agencies, media organisations, trade fairs, suppliers of marketing databases, etc.

Staff Training

Activities to training the skills and teaching of knowledge related to the specific activities of the firm, including on-the-job training and job-related education at training and education institutions. For example, training on IT systems, new production equipment, ISO accreditation, skills development, etc..

Include: (a) staff costs of trainers, including development and delivery of training; (b) travel and subsistence payments; (c) associated costs, including providing facilities, overheads and materials but not capital items; (d) training provided by external suppliers, whether provided on-site or elsewhere; (e) levy payments for training organisations.

Product design

The design of goods or services to develop a new or modified form, appearance or function for goods or services. Design involves a series of iterative steps to create functional products. Product design activities may also include involving potential users in the design process, pilot testing, and post-implementation studies to identify or solve problems with a design.

Include: (a) staff costs of all staff involved, e.g. graphic designers, product designers, architects, design engineers, etc.; (b) associated costs, including office facilities, overheads and materials used for these design activities but not capital goods. Estimates based on proportions of staff time are acceptable.

Exclude: (a) costs of design embedded in other items of current or capital expenditure

Software and databases

Purchase of external software and development of software in-house. For example, operating systems, general purpose office applications (e.g. word processing), special purpose applications (e.g. financial accounting systems, databases, production control systems), etc.

Include: (a) staff costs of all staff involved, excluding contractors; (b) associated costs, including office facilities, overheads and materials used for but not capital items; (c) off-the-shelf software; software licenses and license renewals; generic and bespoke software.

Exclude: (a) software embedded in other items of current or capital expenditure, e.g. software pre-installed on IT hardware

Intellectual Property Rights (IPR)

Administrative and legal costs incurring to apply or register, document, manage, monitor, trade and enforce own intellectual property rights (IPRs). And expenditures made to acquire others' intellectual property (patents, industrial designs, etc.) through purchase or licensing.