

Community Innovation Survey 2020-2022

A Strategies, business environment and intellectual property rights

A1 Strategies and business environment

1 During the three years 2020 to 2022, to what extent do the following characteristics describe the conditions faced by your firm?

Tick one box per row.

	Applies fully	Applies somewhat	Applies very little	Applies not at all
Goods or services became outdated quickly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Future technological developments were difficult to predict	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Competitors' goods or services were easily substituted with those of your firm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entry of new competitors led to a major threat of your firm's market position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Competitors' actions were difficult to predict	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes in demand were difficult to predict	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Strong competition from abroad	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Price increases led to loss of clients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2 During the three years 2020 to 2022, how important were the following strategies to the economic performance of your firm?

Tick one box per row.

	Degree of importance			
	High	Medium	Low	Not important
Focus on improving your existing goods or services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on introducing new goods or services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on low-price (price leadership)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on high-quality (quality leadership)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on a broad range of goods or services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on one or a small number of key goods or services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on satisfying established customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on approaching new customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on standardised goods or services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on customer-specific solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

A2 Intellectual property rights and licenses

3 During the three years 2020 to 2022, did your firm conduct any of the following activities?

Tick one box per row.

	Yes	No
Apply for a patent	<input type="radio"/>	<input type="radio"/>
Register an industrial design right	<input type="radio"/>	<input type="radio"/>
Register a trademark	<input type="radio"/>	<input type="radio"/>
Claim a copyright	<input type="radio"/>	<input type="radio"/>

4 During the three years 2020 to 2022, did your firm conduct any of the following activities?

Tick one box per row.

	Yes	No
Licensed out its own intellectual property rights (IPRs) to others	<input type="radio"/>	<input type="radio"/>
Sold its own IPRs (or assigned IP rights) to others	<input type="radio"/>	<input type="radio"/>
Exchanged IPRs (pooling, cross-licensing, etc.)	<input type="radio"/>	<input type="radio"/>

B Innovation

Innovation is a new or significantly improved product (good or service), process, or combination thereof, that differs significantly from the firm's previous products or processes and that has been made available to potential users or brought into use by the firm.

B1 Product innovation

A **product innovation** is a new or improved good or service that differs significantly from the firm's previous goods or services and that has been introduced to potential users.

Include:

- Significant changes to the design of a good
- New or significantly improved digital goods or services

Exclude:

- The simple re-sale of new goods
- Changes in a good or service of a solely aesthetic nature

5 During the three years 2020 to 2022, did your firm introduce any new or significantly improved products (goods or services)?

Tick one box per row.

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

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Solna strandväg 86, 171 54 SOLNA
www.scb.se
Organisationsnummer: 20 21 00-0837

Besöksadress

Klostergatan 23
Solna strandväg 86
E-post: scb@scb.se
Momsregnummer: SE202100083701

Telefon

010-479 40 00

6 In the three years 2020 to 2022, did your firm introduce any new or significantly improved goods or services that were:

Tick one box per row.

	Yes	No
Only new to the firm ⁱ	<input type="radio"/>	<input type="radio"/>
New to both the firm and to the firm's market ⁱ	<input type="radio"/>	<input type="radio"/>

7 Estimate the percentage of your firm's total turnover in 2022 that came from:

Please note that the turnover refers only to 2022.
Allocated shares should sum up to 100%.

	Percent
Products introduced during the three years 2020 to 2022 that were only new to the firm ⁱ	<input type="text"/> %
Products introduced during the three years 2020 to 2022 that were new to both the firm and the firm's market ⁱ	<input type="text"/> %
Products that were unchanged or marginally modified during the three years 2020 to 2022 (include the resale of new products purchased from other firms) ⁱ	<input type="text"/> %
	0 %

8 Who developed these new or significantly improved products (goods or services)?

Include product innovations that were new only to the firm as well as new to both the firm and the firm's market.
Include independent firms plus other parts of your enterprise group (subsidiaries, sister enterprises, head office etc.).

Tick all that apply.

- Your firm by itself
- Your firm together with other firms or organisations ⁱ
- Your firm by adapting or modifying products originally developed by other firms or organisations
- Other firms or organisations

B2 Business process innovation

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 that has been brought into use by the firm.

9 During the three years 2020 to 2022, did your firm introduce any new or significantly improved processes in the following business functions?

The **business process** should be for one or more business functions, differ significantly from the firm's previous processes and have been brought into use by the firm.

Tick one box per row.

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

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10 Who developed these new or significantly improved processes?

Include independent firms plus other parts of your enterprise group (subsidiaries, sister enterprises, head office etc.)

Tick all that apply.

- Your firm by itself
- Your firm together with other firms or organisations **i**
- Your firm by adapting or modifying products originally developed by other firms or organisations
- Other firms or organisations

B3 Innovation activities including R&D

Innovation activities include all developmental, financial, and commercial activities undertaken by a firm that are intended to result in an innovation for the firm. Innovation activities can be ongoing, abandoned, suspended, or completed.

The fourth edition of the Oslo Manual defines eight types of activities that firms can undertake with the intention of introducing an innovation:

- Research and development (R&D)
- Engineering, design, and other creative work activities
- Marketing and brand equity activities
- IP-related activities
- Employee training activities
- Software development and database activities
- Activities related to the acquisition or lease of tangible assets
- Innovation management activities **i**

Research and development (R&D) comprise creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge. According to the Frascati Manual's definition, R&D activities must be:

- Novel **i**
- Creative **i**
- Uncertain **i**
- Systematic **i**
- Transferable and/or reproducible. **i**

In-house R&D is R&D activities carried out in Sweden by the organisation's own personnel, or by consultants in an R&D project led by the organisation, where the organisation's personnel have worked together with consultants. In-house R&D also includes R&D assigned to the firm by others.

Contracted-out R&D is R&D activities that the organisation has commissioned others to carry out as well as support for R&D that the company has provided to others, for example grants to universities and colleges.

11 During the three years 2020 to 2022, did your firm have any of the following types of innovation activities?

Include innovation activities that started before 2020 or were still ongoing at the end of 2022.

Tick one box per row.

Research and development (R&D)	Yes	No
In-house R&D ⁱ	<input type="radio"/>	<input type="radio"/>
Contracted-out R&D ⁱ	<input type="radio"/>	<input type="radio"/>
Innovation activities (incl. R&D) that did not lead to any innovation introduced during 2020 to 2022	Yes	No
Ongoing innovation activities at the end of 2022 ⁱ	<input type="radio"/>	<input type="radio"/>
Abandoned or suspended innovation activities ⁱ	<input type="radio"/>	<input type="radio"/>
Completed innovation activities not leading to the introduction of an innovation in your firm ⁱ	<input type="radio"/>	<input type="radio"/>

12 During the three years 2020 to 2022, were the firm's R&D activities continuous or occasional?

Tick the option that applies.

- Continuous (your firm had permanent R&D staff)
- Occasional (only when needed)

13 How much did your firm spend on innovation and research and development (R&D) in 2022?

The questions only refer to the expenditures in 2022.

If exact information is missing, an estimate can be made.

Write 0 if there were no expenses.

The expenses must be written in SEK thousands, e.g., 100 000 SEK is written as 100.

	2022	Information from previous survey rounds
R&D performed in-house (Include current expenditures including labour costs and capital expenditures (building, machinery, equipment, software etc.) specifically for R&D) ⁱ	<input type="text"/> 000 SEK	<input type="text" value="100"/> 000 SEK
R&D contracted out to others (Including firms in own enterprise group) ⁱ	<input type="text"/> 000 SEK	<input type="text" value="100"/> 000 SEK

14 Innovation (excluding R&D) ⁱ

Include all expenses related to the firm's innovation activities excl. R&D in 2022.

	2022
Own personnel working on innovation ⁱ	<input type="text"/> 000 SEK
Services, materials, supplies purchased from others for innovation ⁱ	<input type="text"/> 000 SEK
Capital goods for innovation (acquisition of machinery, equipment, software, IPRs, buildings etc.) ⁱ	<input type="text"/> 000 SEK
Other expenditures for innovation ⁱ	<input type="text"/> 000 SEK
Total innovation expenditures (excluding R&D)	<input type="text" value="0"/> 000 SEK

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15 Which of the following best describes why your firm did not have more innovation activities during the three years from 2020 to 2022?

Tick the option that applies.

- Lack of resources 
- Other reasons than lack of resources 
- There was no need for more innovation activities

16 Which of the following best describes why your firm had no innovation activities during the three years from 2020 to 2022?

Tick the option that applies.




- Lack of resources 
- Other reasons than lack of resources 
- There was no need for innovation activities

B4 Cooperation

Cooperation occurs when two or more participants agree to take responsibility for a task or series of tasks and information is shared between the parties to facilitate the agreement.

17 During the three years 2020 to 2022, did your firm cooperate with other firms or organisations?

Tick one box per row.

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

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18 Indicate type of innovation cooperation partner by location.

The United Kingdom (UK) is a part of countries outside the EU or EFTA.
Tick all that apply.

	Sweden	Other countries in EU or EFTA ⁱ	Countries outside the EU or EFTA ⁱ
Firms outside your enterprise group			
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"/>
Firms that are your clients or customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Firms that are your competitors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other firms ⁱ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private firms within your enterprise group			
Firms within your enterprise group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cooperation partners outside the business enterprise sector			
Universities or other higher education institutions	<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 ⁱ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-profit organisations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

B5 Business finance and support for innovation activities (including R&D)

19 During the three years from 2020 to 2022, did your firm try to obtain funding through equity finance?

Equity finance is finance provided in exchange for a share in the ownership of the firm. Include funding used for other activities as well as R&D and innovation in the firm.

Tick the option that applies.

- Yes, successfully obtained funding through equity finance
- Yes, tried to obtain funding through equity finance but not successful
- No, did not try to obtain funding through equity finance

20 Was the funding from equity finance, partly or fully used for R&D or other innovation activities?

- Yes
- No

21 During the three years from 2020 to 2022, did your firm try to obtain funding through debt finance?

Debt finance is finance that the firm must repay. Include funding used for other activities besides R&D and innovation in the firm.

Tick the option that applies.

- Yes, successfully obtained funding through debt finance
- Yes, tried to obtain funding through debt finance but not successful
- No, did not try to obtain funding through debt finance

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22 Was the funding from debt finance, partly or fully used for R&D or other innovation activities?

- Yes
 No

B5 Business finance and support for innovation activities (including R&D)

Include:

- Financial support via grants, subsidised loans, and loan guarantees.

Exclude:

- Revenues from public sector procurement contracts
- Deductions through tax reduction, e.g., ROT or RUT
- Pandemic related support (layoff support).

23 During the three years from 2020 to 2022, did your firm receive any public financial support from the following levels of government?

Tick one box per row.

	Yes	No
Local or regional authorities	<input type="radio"/>	<input type="radio"/>
National government	<input type="radio"/>	<input type="radio"/>
EU Programme for Research and Innovation (Horizon Europe)	<input type="radio"/>	<input type="radio"/>
Other financial support from an EU institution	<input type="radio"/>	<input type="radio"/>

24 Was the public financial support, per level of government, fully or partly used for R&D or other innovation activities?

Tick one box per row.

	Yes	No
Local or regional authorities	<input type="radio"/>	<input type="radio"/>
National government	<input type="radio"/>	<input type="radio"/>
EU Programme for Research and Innovation (Horizon Europe)	<input type="radio"/>	<input type="radio"/>
Other financial support from an EU institution	<input type="radio"/>	<input type="radio"/>

B6 Specific factors and actions

25 During the three years from 2020 to 2022, how important were the following factors related to climate change for your firm?

Tick one box per row.

	Degree of importance			
	High	Medium	Low	Not relevant
Government policies or measures related to climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increasing customer demand for products that help mitigate or adapt to climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increasing costs or input prices resulting from climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Impacts of extreme weather conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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B7 Environmental innovations

An **innovation with environmental benefits** is a new or significantly improved product or process of a firm that generates lower environmental impacts, compared to the firm's previous products or processes. The product or process should also have been made available to potential users or brought into use.

The environmental benefit can be the primary objective of the innovation or a by-product of other objectives.

The environmental benefits of an innovation can occur during the production of a good or service, or during its consumption or use by the end user of a product. The end user can be an individual, another firm, the government, etc.

B7.1 Environmental benefits obtained within your firm

This question regards environmental benefits obtained **within the firm**.

26 During the three years 2020 to 2022, did your firm introduce innovation with any of the following environmental benefits?

Tick one box per row.

	Yes	No
Reduced material or water use per unit of output	<input type="radio"/>	<input type="radio"/>
Reduced energy use or CO2 footprint	<input type="radio"/>	<input type="radio"/>
Reduced soil, light, noise, water or air pollution	<input type="radio"/>	<input type="radio"/>
Replaced a share of materials with less polluting or hazardous substitutes	<input type="radio"/>	<input type="radio"/>
Replaced a share of fossil energy with renewable energy sources	<input type="radio"/>	<input type="radio"/>
Recycled waste, water, or materials for own use or sale	<input type="radio"/>	<input type="radio"/>
Protection of bio-diversity	<input type="radio"/>	<input type="radio"/>

B7.2 Environmental benefits obtained during the consumption

This question regards environmental benefits obtained **during the consumption or use** of a good or service by the end user.

27 During the three years 2020 to 2022, did your firm introduce innovation with any of the following environmental benefits?

Tick one box per row.

	Yes	No
Reduced energy use or CO2 footprint	<input type="radio"/>	<input type="radio"/>
Reduced air, water, soil, light or noise pollution	<input type="radio"/>	<input type="radio"/>
Facilitated recycling of product after use	<input type="radio"/>	<input type="radio"/>
Extended product life through longer-lasting, more durable, or easier-to-repair products	<input type="radio"/>	<input type="radio"/>
Protection of bio-diversity	<input type="radio"/>	<input type="radio"/>

B7.3 Driving factors behind innovation with environmental benefits

28 During the three years 2020 to 2022, how important were the following factors in driving your firm's decision to introduce innovations with environmental benefits?

Tick one box per row.

	Degree of importance			
	High	Medium	Low	Not relevant
Existing environmental regulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Existing environmental taxes, charges or fees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental regulations or taxes expected in the future	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Government grants, subsidies or other financial incentives for environmental innovations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Current or expected market demand for environmental innovations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improving your firm's reputation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voluntary actions or initiatives for environmental good practice within your sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High cost of energy, water or materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Need to meet requirements for public procurement contracts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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C. Expenditure for energy related in-house R&D

Previously you entered total expenditure on in-house R&D. In this question, we ask about expenditure on energy related in-house R&D. This part of the survey is conducted in collaboration with the Swedish Energy Agency. The purpose is to increase knowledge regarding energy-related R&D and the green transition in Sweden.

The question is voluntary, and we hope that you will participate since your answers are important.

Energy related R&D includes basic research, applied research and experimental development related to the production, storage, transportation, distribution, and rational use of all forms of energy.

29 How much did your firm spend on energy related in-house R&D in 2022? ⓘ

The question only refers to expenditures in 2022.
If exact information is missing, an estimate can be made.
Write 0 if there were no expenses.
The expenses must be written in SEK thousands, e.g. 100 000 SEK is written as 100.

	SEK Thousands	
Total expenditure on in-house R&D in 2022 (from question 13)	<input type="text" value="100"/>	000 SEK
Expenditure on energy related in-house R&D within:		
Energy efficiency (e.g., processes, techniques, or materials) ⓘ	<input type="text"/>	000 SEK
Renewable energy resources	<input type="text"/>	000 SEK
Nuclear fission and fusion	<input type="text"/>	000 SEK
Hydrogen and fuel cells (e.g., production technology, storage, or transportation of hydrogen) ⓘ	<input type="text"/>	000 SEK
Fossil fuels (incl. carbon capture and storage, CCS)	<input type="text"/>	000 SEK
Electric power (e.g., production, transportation and distribution of electricity, electrical storage, thermal storage)	<input type="text"/>	000 SEK
Other energy related technologies (e.g., energy system analysis)	<input type="text"/>	000 SEK
Sum of expenditure on energy related in-house R&D in 2022	<input type="text" value="0"/>	000 SEK

The firm had no expenditure on energy related in-house R&D in 2022

30 Comments:

Optional

31 How long did it take to retrieve and submit the requested information?

Statistics Sweden is working actively to reduce the amount of time that businesses and organisations spend on submitting their response. For this reason, we would be very grateful if you could answer this voluntary question.

hours minutes