

Country: _____

QUESTIONNAIRE ON INNOVATION STATISTICS Manufacturing industry

Most recent innovation data available

This questionnaire is designed to collect data on innovation within the manufacturing industry from your most recent national innovation survey. The information gathered will be added to the UNESCO Institute for Statistics (UIS) global database of innovation statistics. The data submitted will be converted into indicators (percentages). The general public will not have access to the raw data. Only the indicators will be disseminated on the UIS website and published in reports prepared by UNESCO, other UN and non-UN agencies and public and private institutions or individuals worldwide.

1. Please return the completed questionnaire before **24 August 2015**. If your country has not updated its innovation data since your last submission, please complete the respondent information and question 1.1. To submit the electronic questionnaire directly to the UIS, please click on the **[Submit]** button at the end of the questionnaire or email it to: **uis.survey@unesco.org**
2. Only **one questionnaire per country** should be completed by the institution responsible for innovation statistics (e.g. National Statistical Office, Ministry of Science and Technology, National Innovation Council or a similar organization).
3. Data reported in this questionnaire should refer to the **grossed up results**, meaning that the results of your innovation survey should be extrapolated to the whole target population. If this is not possible, please submit the survey data.
4. The definitions and classifications presented in this questionnaire are based on the third edition of the [Oslo Manual](#) which should be consulted for more detailed definitions and guidelines on their application.
5. Please refer to the [Annex](#) and the [Data Entry Manual](#) before completing the questionnaire.
6. Please do not leave any cell blank. The following codes should be used whenever figures are not available:
 - a** = category is not applicable
 - m** = data missing (or not available)
 - n** = quantity not
 - x** = data are confidential or included in another category (to be indicated with a comment)
The sum of confidential data should be reported in the row "of which: confidential".Provisional or estimated figures should be marked with an asterisk (*).
7. Cells highlighted in grey are automatically calculated. They can be overwritten if necessary.
8. Please provide comments to explain data coverage or any errors that are flagged in the questionnaire. To enter comments in the electronic questionnaire, press the [Shift] key and left mouse button simultaneously.
9. **Adobe Reader 8.0** or greater is required to complete this questionnaire. The latest version of Adobe Reader can be downloaded at <http://get.adobe.com/reader/>
10. For any queries concerning the questionnaire, please contact the UIS by email: **uis.survey@unesco.org**;
fax: (1 514) 343-5740; or mail: P.O. Box 6128, Succ. Centre-ville, Montreal, Quebec, H3C 3J7, Canada.

RESPONDENT INFORMATION

Please provide details below of the person(s) responsible for completing this questionnaire. **Required fields are marked with an asterisk (*)**.

Respondent 1: Person in charge of completing the questionnaire

| | | | | | |
|--------------------------|--------------|-----------|-----------------------|-----------|--|
| <input type="radio"/> Mr | | | | | |
| <input type="radio"/> Ms | | | | | |
| Family name * | | | First name | | |
| Job title (or position) | | | | | |
| Name of institution * | | | | | |
| Address | | | City | | |
| Country * | | | Postal code | | |
| Telephone: | Country code | Area code | Number | Extension | |
| Fax: | Country code | Area code | Number | | |
| Mobile: | Country code | Area code | Number | | |
| Email * | | | Institutional website | | |

Respondent 2: Head of the institution (if different from Respondent 1)

| | | | | | |
|--------------------------|--------------|-----------|-----------------------|-----------|--|
| <input type="radio"/> Mr | | | | | |
| <input type="radio"/> Ms | | | | | |
| Family name | | | First name | | |
| Job title (or position) | | | | | |
| Name of institution | | | | | |
| Address | | | City | | |
| Country | | | Postal code | | |
| Telephone: | Country code | Area code | Number | Extension | |
| Fax: | Country code | Area code | Number | | |
| Mobile: | Country code | Area code | Number | | |
| Email | | | Institutional website | | |

SECTION 1. INSTITUTIONAL INFORMATION

1.1 Have the innovation data for your country been updated since your last submission to the UIS?

- Yes
 No

1.2 Type of institution: (please select only **one** option)

- Public organization
 Higher education
 Private non-profit
 Other (please specify):

1.3 Has your institution always conducted the national innovation survey?

- Yes
 No (please specify since when and name of the previous institution responsible for the national innovation survey):

1.4 Does your institution publish innovation statistics or indicators periodically?

- Yes (please attach or send by mail copies of your latest publications, including the survey questionnaire¹)
 No

1.5 If your institution is not responsible for the national coordination of innovation statistics, please provide the contact details of the institution which has such responsibility:

National coordinating institution

Family name

First name

Job title (or position)

Department, division or sector

Address

City

Country

Postal code

Telephone:

Country code

Area code

Number

Extension

Fax:

Country code

Area code

Number

Email

Institutional website

1 These documents will be included in the "UIS Global Catalogue of Innovation Surveys", unless your country wishes to refrain from making them public.

SECTION 2. INFORMATION ON THE NATIONAL SURVEY

2.1 Survey name and year: _____

2.2 Survey observation period:

From: To: * required field

Length: year(s) Type of period:

2.3 What is the statistical unit in your innovation survey?

- Enterprise group
 - Enterprise
 - Establishment
 - Kind of activity unit (KAU)
 - Other (please specify):
- _____

2.4 What is the sampling frame used? (please select all that apply)

- National statistical business register
 - Alternative administrative/commercial sources
 - Ad hoc lists (e.g. known research and experimental development (R&D) performers, past innovation surveys respondents, etc.)
 - Other (please specify):
- _____

2.5 What is the size cut-off point criterion? (please select all that apply)

- Number of employees
 - Turnover
 - Other (please specify):
- _____

Table 2.6 Size classification of the statistical unit

(Please use this size class classification to report data in the UIS questionnaire.)

| Size class | Employees | Turnover in national currency | Other |
|-------------------|-----------|-------------------------------|-------|
| Micro | From: | From: | From: |
| | To: | To: | To: |
| Small | From: | From: | From: |
| | To: | To: | To: |
| Medium-sized | From: | From: | From: |
| | To: | To: | To: |
| Large | From: | From: | From: |
| | To: | To: | To: |
| Monetary unit | | | |
| National currency | | | |

2.7 How were the innovation data collected?

- Sample survey
 - Census
 - Combined (please specify):
-

2.8 What type of data are being reported in the UIS questionnaire?

- Survey data
- Grossed up data (population estimates)

2.9 Please specify the estimation procedures used in your survey to treat unit non-response: (please select all that apply)

- Non-response survey
 - Re-contacting the enterprises
 - Imputation
 - None
 - Other (please specify):
-

2.10 Please specify the estimation procedures used in your survey to treat item non-response: (please select all that apply)

- Non-response survey
 - Re-contacting the enterprises
 - Imputation
 - None
 - Other (please specify):
-

2.11 Which international industrial classification is the most compatible with the national industrial classification used in your innovation survey? The option selected determines the tables to complete in the questionnaire. For example, if ISIC Rev. 3.1 or NACE Rev. 1.1 is selected, only tables broken down by these classifications will remain for completion. * required field

- ISIC Rev. 3.1 or NACE Rev. 1.1
- ISIC Rev. 4 or NACE Rev. 2

2.12 Please provide details of the full industrial coverage of your innovation survey (e.g. ISIC Rev. 4 C10-33, ISIC Rev. 4 C10, 11, 3-33). For all the other questions, note that the data reported should only cover the manufacturing industry.

Table 2.13 Populations, sample and response rate by size class

| Size class | Number of manufacturing firms | | | | Response rate (%) |
|------------------------|-------------------------------|-------------------|-------------|-------------|-------------------|
| | Business population | Target population | Sample size | Respondents | |
| Micro | | | | | |
| Small | | | | | |
| Medium-sized | | | | | |
| Large | | | | | |
| TOTAL | | | | | |
| of which: confidential | | | | | |

Notes:

For consultation purposes only

Please select the most compatible classification: ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 2.14.1 Populations, sample and response rate by manufacturing industry (ISIC Rev. 3.1/NACE Rev. 1.1)

| Manufacturing industry (ISIC Rev. 3.1/NACE Rev 1.1) | Number of manufacturing firms | | | | Response rate (%) |
|---|-------------------------------|----------------------|-------------|-------------|----------------------|
| | Business population | Target population | Sample size | Respondents | |
| 15. Food products and beverages | | | | | |
| 16. Tobacco products | | | | | |
| 17. Textiles | | | | | |
| 18. Wearing apparel and fur | | | | | |
| 19. Leather products and footwear | | | | | |
| 20. Wood and cork (not furniture) | | | | | |
| 21. Pulp, paper and paper products | | | | | |
| 22. Publishing, printing and reproduction of recorded media | | | | | |
| 23. Coke, refined petroleum products and nuclear fuel | | | | | |
| 24. Chemicals and chemical products | | | | | |
| 25. Rubber and plastic products | | | | | |
| 26. Non-metallic mineral products | | | | | |
| 27. Basic metals | | | | | |
| 28. Fabricated metal products (except machinery and equipment) | | | | | |
| 29. Machinery and equipment n.e.c. | | | | | |
| 30. Office, accounting and computing machinery | | | | | |
| 31. Electrical machinery | | | | | |
| 32. Electronic equipment (radio, television and communications) | | | | | |
| 33. Medical, precision and optical instruments, watches, clocks (instruments) | | | | | |
| 34. Motor vehicles, trailers and semi-trailers | | | | | |
| 35. Other transport equipment | | | | | |
| 36. Furniture, other manufacturing n.e.c. | | | | | |
| 37. Recycling | | | | | |
| TOTAL | | | | | |
| of which: confidential | | | | | |

Please select the most compatible classification: ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 2.14.2 Populations, sample and response rate by manufacturing industry (ISIC Rev. 4/NACE Rev. 2)

| Manufacturing industry (ISIC Rev. 4/NACE Rev. 2) | Number of manufacturing firms | | | | Response rate (%) |
|--|-------------------------------|----------------------|-------------|-------------|----------------------|
| | Business population | Target population | Sample size | Respondents | |
| 10. Food products | | | | | |
| 11. Beverages | | | | | |
| 12. Tobacco products | | | | | |
| 13. Textiles | | | | | |
| 14. Wearing apparel | | | | | |
| 15. Leather and related products | | | | | |
| 16. Wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | | | | | |
| 17. Paper and paper products | | | | | |
| 18. Printing and reproduction of recorded media | | | | | |
| 19. Coke and refined petroleum products | | | | | |
| 20. Chemicals and chemical products | | | | | |
| 21. Basic pharmaceutical products and pharmaceutical preparations | | | | | |
| 22. Rubber and plastic products | | | | | |
| 23. Other non-metallic mineral products | | | | | |
| 24. Basic metals | | | | | |
| 25. Fabricated metal products, except machinery and equipment | | | | | |
| 26. Computer, electronic and optical products | | | | | |
| 27. Electrical equipment | | | | | |
| 28. Machinery and equipment n.e.c. | | | | | |
| 29. Motor vehicles, trailers and semi-trailers | | | | | |
| 30. Other transport equipment | | | | | |
| 31. Furniture | | | | | |
| 32. Other manufacturing | | | | | |
| 33. Repair and installation of machinery and equipment | | | | | |
| TOTAL | | | | | |
| of which: confidential | | | | | |

SECTION 3. PRODUCT AND PROCESS INNOVATION

All manufacturing firms

Table 3.1 Product or process innovators, innovation-active and non-innovative manufacturing firms by size class

| Size class | Innovation-active manufacturing firms | | | | SUBTOTAL (A+E-D-C) | Non-innovative manufacturing firms (E) | TOTAL |
|------------------------|---------------------------------------|------------------------------|--|---|-----------------------|---|-------|
| | Product innovators (A) | Process innovators (B) | Both product and process innovators (C) | Firms with abandoned or ongoing innovation activities only (D) | | | |
| Micro | | | | | | | |
| Small | | | | | | | |
| Medium-sized | | | | | | | |
| Large | | | | | | | |
| TOTAL | | | | | | | |
| of which: confidential | | | | | | | |

3.2 Please indicate if firms with abandoned or ongoing innovation activities only in Table 3.1 include:

Firms that had innovation activities that were abandoned or ongoing for:

- Product or process innovation, regardless of organizational or marketing innovation
- Product, process, organizational or marketing innovation
- Other, please specify:

Notes:

Please select the most compatible classification: ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 3.3.1 Product or process innovators, innovation-active and non-innovative firms by manufacturing industry (ISIC Rev. 3.1/NACE Rev. 1.1)

| Manufacturing industry (ISIC Rev. 3.1/NACE Rev 1.1) | Innovation-active manufacturing firms | | | | | Non-innovative manufacturing firms (E) | TOTAL |
|---|---------------------------------------|------------------------------|--|---|------------------------|---|-------|
| | Product innovators (A) | Process innovators (B) | Both product and process innovators (C) | Firms with abandoned or ongoing innovation activities only (D) | Sub-TOTAL (A+B+D-C) | | |
| 15. Food products and beverages | | | | | | | |
| 16. Tobacco products | | | | | | | |
| 17. Textiles | | | | | | | |
| 18. Wearing apparel and fur | | | | | | | |
| 19. Leather products and footwear | | | | | | | |
| 20. Wood and cork (not furniture) | | | | | | | |
| 21. Pulp, paper and paper products | | | | | | | |
| 22. Publishing, printing and reproduction of recorded media | | | | | | | |
| 23. Coke, refined petroleum products and nuclear fuel | | | | | | | |
| 24. Chemicals and chemical products | | | | | | | |
| 25. Rubber and plastic products | | | | | | | |
| 26. Non-metallic mineral products | | | | | | | |
| 27. Basic metals | | | | | | | |
| 28. Fabricated metal products (except machinery and equipment) | | | | | | | |
| 29. Machinery and equipment n.e.c. | | | | | | | |
| 30. Office, accounting and computing machinery | | | | | | | |
| 31. Electrical machinery | | | | | | | |
| 32. Electronic equipment (radio, television and communications) | | | | | | | |
| 33. Medical, precision and optical instruments, watches, clocks (instruments) | | | | | | | |
| 34. Motor vehicles, trailers and semi-trailers | | | | | | | |
| 35. Other transport equipment | | | | | | | |
| 36. Furniture, other manufacturing n.e.c. | | | | | | | |
| 37. Recycling | | | | | | | |
| TOTAL | | | | | | | |
| of which: confidential | | | | | | | |

Notes:

Please select the most compatible classification: ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 3.3.2 Product or process innovators, innovation-active and non-innovative firms by manufacturing industry (ISIC Rev. 4/NACE Rev. 2)

| Manufacturing industry (ISIC Rev. 4/NACE Rev 2) | Innovation-active manufacturing firms | | | | | Non-innovative manufacturing firms (E) | TOTAL |
|--|---------------------------------------|------------------------------|--|---|------------------------|---|-------|
| | Product innovators (A) | Process innovators (B) | Both product and process innovators (C) | Firms with abandoned or ongoing innovation activities only (D) | Sub-TOTAL (A+B+D-C) | | |
| 10. Food products | | | | | | | |
| 11. Beverages | | | | | | | |
| 12. Tobacco products | | | | | | | |
| 13. Textiles | | | | | | | |
| 14. Wearing apparel | | | | | | | |
| 15. Leather and related products | | | | | | | |
| 16. Wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | | | | | | | |
| 17. Paper and paper products | | | | | | | |
| 18. Printing and reproduction of recorded media | | | | | | | |
| 19. Coke and refined petroleum products | | | | | | | |
| 20. Chemicals and chemical products | | | | | | | |
| 21. Basic pharmaceutical products and pharmaceutical preparations | | | | | | | |
| 22. Rubber and plastic products | | | | | | | |
| 23. Other non-metallic mineral products | | | | | | | |
| 24. Basic metals | | | | | | | |
| 25. Fabricated metal products, except machinery and equipment | | | | | | | |
| 26. Computer, electronic and optical products | | | | | | | |
| 27. Electrical equipment | | | | | | | |
| 28. Machinery and equipment n.e.c. | | | | | | | |
| 29. Motor vehicles, trailers and semi-trailers | | | | | | | |
| 30. Other transport equipment | | | | | | | |
| 31. Furniture | | | | | | | |
| 32. Other manufacturing | | | | | | | |
| 33. Repair and installation of machinery and equipment | | | | | | | |
| TOTAL | | | | | | | |
| of which: confidential | | | | | | | |

Notes:

SECTION 4. INNOVATION ACTIVITIES

Product or process innovation-active manufacturing firms

The data reported in Sections 4 to 7.1 should include product or process innovation-active manufacturing firms, regardless of organizational and marketing innovation. Manufacturing firms without product or process innovation but with abandoned or ongoing innovation activities should also be included.

Manufacturing firms that only implemented organizational or marketing innovation should be excluded.

If these conditions cannot be fulfilled, please complete the tables with the available data and report the inconsistencies.

The total number of innovation-active manufacturing firms reported in Sections 4 to 7.1 should be equal to the SUBTOTAL in Tables 3.1 and 3.3.1/3.3.2.

Table 4.1 Innovation activities of innovation-active manufacturing firms

| | |
|---|--|
| Total number of innovation-active manufacturing firms | |
| of which engaged in the following innovation activities: | |
| In-house R&D | |
| Contracted out R&D | |
| Acquisition of machinery, equipment and software | |
| Acquisition of other external knowledge | |
| Training | |
| Market introduction of innovations | |
| Other preparations | |

4.2 Please indicate the firms included in Table 4.1:

Firms that implement the following types of innovation: (please select one)

- Product or process innovation, regardless of organizational or marketing innovation
- Product or process innovation only (no organizational or marketing innovation)
- Product, process, organizational or marketing innovation
- Other, please specify:

Firms that had innovation activities that were: (please select one)

- Abandoned or ongoing for product or process innovation
- Abandoned or ongoing for product, process, organizational or marketing innovation
- Abandoned or ongoing for any type of innovation are not included
- Other, please specify:

SECTION 5. SOURCES OF INFORMATION

Product or process innovation-active manufacturing firms

If your innovation survey used a **four-level scale** (e.g. high, medium, low, not used) to rate the degree of importance of sources of information, please report data that refer to the highest level only (i.e. high).
 For a **five-level scale**, please report data that relate to the two highest levels combined.
 For all **other scales**, please determine the appropriate levels to (combine and) report.

Table 5.1 Sources of information rated as highly important by innovation-active manufacturing firms

| | | |
|---|--|--|
| Total number of innovation-active manufacturing firms | | |
| of which rated the following sources of information as highly important: | | |
| Internal | Within your enterprise or enterprise group | |
| Market sources | Suppliers of equipment, materials, components or software | |
| | Clients or customers | |
| | Competitors or other enterprises in your sector | |
| | Consultants, commercial laboratories or private R&D institutes | |
| Institutional sources | Universities or other higher education institutions | |
| | Government or public research institutes | |
| Other sources | Conferences, trade fairs, exhibitions | |
| | Scientific journals and trade/technical publications | |
| | Professional and industry associations | |

5.2 Please indicate the firms included in Table 5.1:

Firms that implemented the following types of innovation: (please select one)

- Product or process innovation, regardless of organizational or marketing innovation
- Product or process innovation only (no organizational or marketing innovation)
- Product, process, organizational or marketing innovation
- Other, please specify:

Firms that had innovation activities that were: (please select one)

- Abandoned or ongoing for product or process innovation
- Abandoned or ongoing for product, process, organizational or marketing innovation
- Abandoned or ongoing for any type of innovation are not included
- Other, please specify:

5.3 Please describe the scale used in your innovation survey to rate the sources of information and indicate the level(s) reported as highly important in Table 5.1:

| Number of levels | Label of the levels | Level(s) reported in Table 5.1 |
|------------------|---------------------|--------------------------------|
| | | |

Notes:

For consultation purposes only

SECTION 6. COOPERATION

Product or process innovation-active manufacturing firms

6.1 The definition of cooperation in your innovation survey includes: (please select all that apply)

- Active participation with other firms or public research institutions in innovation activities
- Non-active collaboration

Table 6.2 Cooperation partners of innovation-active manufacturing firms

(Data should be restricted to the partners listed. Any other partners that may have been included in your survey should be excluded.)

| | |
|--|--|
| Total number of innovation-active manufacturing firms | |
| of which cooperated with the following partners: | |
| Other enterprises within the enterprise group | |
| Suppliers of equipment, materials, components or software | |
| Clients or customers | |
| Competitors or other enterprises in your sector | |
| Consultants, commercial laboratories or private R&D institutes | |
| Universities or other higher education institutions | |
| Government or public research institutes | |
| Total number of firms that cooperated with at least one of these partners | |

6.3 Please indicate the firms included in Table 6.2:

Firms that implemented the following types of innovation: (please select one)

- Product or process innovation, regardless of organizational or marketing innovation
- Product or process innovation only (no organizational or marketing innovation)
- Product, process, organizational or marketing innovation
- Other, please specify:

Firms that had innovation activities that were: (please select one)

- Abandoned or ongoing for product or process innovation
- Abandoned or ongoing for product, process, organizational or marketing innovation
- Abandoned or ongoing for any type of innovation are not included
- Other, please specify:

Notes:

SECTION 7. HAMPERING FACTORS

If your innovation survey used a **four-level scale** (e.g. high, medium, low, not used) to rate the degree of importance of hampering factors, please report data that refer to the highest level only (i.e. high).
 For a **five-level scale**, please report data that relate to the two highest levels combined.
 For all **other scales**, please determine the appropriate levels to (combine and) report.

7.1 Product or process innovation-active manufacturing firms

Table 7.1.1 Hampering factors rated as highly important by innovation-active manufacturing firms

| Total number of innovation-active manufacturing firms | | |
|---|---|--|
| of which rated the following hampering factors as highly important: | | |
| Cost factors | Lack of funds within your enterprise or enterprise group | |
| | Lack of financing from sources outside your enterprise | |
| | Innovation costs are too high | |
| Knowledge factors | Lack of qualified personnel | |
| | Lack of information on technology | |
| | Lack of information on markets | |
| | Difficulty in finding cooperation partners for innovation | |
| Market factors | Market dominated by established enterprises | |
| | Uncertain demand for innovative goods or services | |
| Reasons not to innovate | No need due to prior innovations by your enterprise | |
| | No demand for innovations | |

7.1.2 Please indicate the firms included in Table 7.1.1:

Firms that implemented the following types of innovation: (please select one)

- Product or process innovation, regardless of organizational or marketing innovation
- Product or process innovation only (no organizational or marketing innovation)
- Product, process, organizational or marketing innovation
- Other, please specify:
-

Firms that had innovation activities that were: (please select one)

- Abandoned or ongoing for product or process innovation
- Abandoned or ongoing for product, process, organizational or marketing innovation
- Abandoned or ongoing for any type of innovation are not included
- Other, please specify:
-

7.1.3 Please describe the scale used in your innovation survey to rate the hampering factors and indicate the level(s) reported as highly important in Table 7.1.1:

| Number of levels | Label of the levels | Level(s) reported in Table 7.1.1 |
|------------------|---------------------|----------------------------------|
| | | |

Notes:

For consultation purposes only

7.2 Product or process non-innovative manufacturing firms

The total number of non-innovative manufacturing firms reported in Section 7.2 should be equal to the column "Non-innovative manufacturing firms" in Tables 3.1 and 3.3.1/3.3.2.

Table 7.2.1 Hampering factors rated as highly important by non-innovative manufacturing firms

| Total number of non-innovative manufacturing firms | | |
|---|---|--|
| of which rated the following hampering factors as highly important: | | |
| Cost factors | Lack of funds within your enterprise or enterprise group | |
| | Lack of financing from sources outside your enterprise | |
| | Innovation costs are too high | |
| Knowledge factors | Lack of qualified personnel | |
| | Lack of information on technology | |
| | Lack of information on markets | |
| | Difficulty in finding cooperation partners for innovation | |
| Market factors | Market dominated by established enterprises | |
| | Uncertain demand for innovative goods or services | |
| Reasons not to innovate | No need due to prior innovations by your enterprise | |
| | No demand for innovations | |

7.2.2 Please indicate the firms included in Table 7.2.1:

Firms that did not implement the following types of innovation: (please select one)

- Product or process innovation, regardless of organizational or marketing innovation
- Product, process, organizational or marketing innovation
- Other, please specify: _____

Firms that did not have abandoned or ongoing innovation activities are: (please select one)

- Included
- Excluded

7.2.3 If different from Section 7.1, please describe the rating scale used in Section 7.2 and indicate the level(s) reported as highly important in Table 7.2.1:

| Number of levels | Label of the levels | Level(s) reported in Table 7.2.1 |
|------------------|---------------------|----------------------------------|
| | | |

SECTION 8. ORGANIZATIONAL INNOVATION

All manufacturing firms

Table 8.1 Organizational innovators by size class

| Size class | Organizational innovators |
|------------------------|---------------------------|
| Micro | |
| Small | |
| Medium-sized | |
| Large | |
| TOTAL | |
| of which: confidential | |

Notes:

For consultation purposes only

Please select the most compatible classification:

- ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 8.2.1 Organizational innovators by manufacturing industry (ISIC Rev. 3.1/NACE Rev. 1.1)

| Manufacturing industry (ISIC Rev. 3.1/NACE Rev 1.1) | Organizational innovators |
|---|---------------------------|
| 15. Food products and beverages | |
| 16. Tobacco products | |
| 17. Textiles | |
| 18. Wearing apparel and fur | |
| 19. Leather products and footwear | |
| 20. Wood and cork (not furniture) | |
| 21. Pulp, paper and paper products | |
| 22. Publishing, printing and reproduction of recorded media | |
| 23. Coke, refined petroleum products and nuclear fuel | |
| 24. Chemicals and chemical products | |
| 25. Rubber and plastic products | |
| 26. Non-metallic mineral products | |
| 27. Basic metals | |
| 28. Fabricated metal products (except machinery and equipment) | |
| 29. Machinery and equipment n.e.c. | |
| 30. Office, accounting and computing machinery | |
| 31. Electrical machinery | |
| 32. Electronic equipment (radio, television and communications) | |
| 33. Medical, precision and optical instruments, watches, clocks (instruments) | |
| 34. Motor vehicles, trailers and semi-trailers | |
| 35. Other transport equipment | |
| 36. Furniture, other manufacturing n.e.c. | |
| 37. Recycling | |
| TOTAL | |
| of which: confidential | |

Please select the most compatible classification:

- ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 8.2.2 Organizational innovators by manufacturing industry (ISIC Rev. 4/NACE Rev. 2)

| Manufacturing industry (ISIC Rev. 4/NACE Rev. 2) | Organizational innovators |
|--|---------------------------|
| 10. Food products | |
| 11. Beverages | |
| 12. Tobacco products | |
| 13. Textiles | |
| 14. Wearing apparel | |
| 15. Leather and related products | |
| 16. Wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | |
| 17. Paper and paper products | |
| 18. Printing and reproduction of recorded media | |
| 19. Coke and refined petroleum products | |
| 20. Chemicals and chemical products | |
| 21. Basic pharmaceutical products and pharmaceutical preparations | |
| 22. Rubber and plastic products | |
| 23. Other non-metallic mineral products | |
| 24. Basic metals | |
| 25. Fabricated metal products, except machinery and equipment | |
| 26. Computer, electronic and optical products | |
| 27. Electrical equipment | |
| 28. Machinery and equipment n.e.c. | |
| 29. Motor vehicles, trailers and semi-trailers | |
| 30. Other transport equipment | |
| 31. Furniture | |
| 32. Other manufacturing | |
| 33. Repair and installation of machinery and equipment | |
| TOTAL | |
| of which: confidential | |

SECTION 9. MARKETING INNOVATION

All manufacturing firms

Table 9.1 Marketing innovators by size class

| Size class | Marketing innovators |
|------------------------|----------------------|
| Micro | |
| Small | |
| Medium-sized | |
| Large | |
| TOTAL | |
| of which: confidential | |

Notes:

For consultation purposes only

Please select the most compatible classification:

- ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 9.2.1 Marketing innovators by manufacturing industry (ISIC Rev. 3.1/NACE Rev. 1.1)

| Manufacturing industry (ISIC Rev. 3.1/NACE Rev 1.1) | Marketing innovators |
|---|----------------------|
| 15. Food products and beverages | |
| 16. Tobacco products | |
| 17. Textiles | |
| 18. Wearing apparel and fur | |
| 19. Leather products and footwear | |
| 20. Wood and cork (not furniture) | |
| 21. Pulp, paper and paper products | |
| 22. Publishing, printing and reproduction of recorded media | |
| 23. Coke, refined petroleum products and nuclear fuel | |
| 24. Chemicals and chemical products | |
| 25. Rubber and plastic products | |
| 26. Non-metallic mineral products | |
| 27. Basic metals | |
| 28. Fabricated metal products (except machinery and equipment) | |
| 29. Machinery and equipment n.e.c. | |
| 30. Office, accounting and computing machinery | |
| 31. Electrical machinery | |
| 32. Electronic equipment (radio, television and communications) | |
| 33. Medical, precision and optical instruments, watches, clocks (instruments) | |
| 34. Motor vehicles, trailers and semi-trailers | |
| 35. Other transport equipment | |
| 36. Furniture, other manufacturing n.e.c. | |
| 37. Recycling | |
| TOTAL | |
| of which: confidential | |

Please select the most compatible classification:

- ISIC Rev. 3.1/NACE Rev. 1.1 ISIC Rev. 4/NACE Rev. 2

Table 9.2.2 Marketing innovators by manufacturing industry (ISIC Rev. 4/NACE Rev. 2)

| Manufacturing industry (ISIC Rev. 4/NACE Rev. 2) | Marketing innovators |
|--|----------------------|
| 10. Food products | |
| 11. Beverages | |
| 12. Tobacco products | |
| 13. Textiles | |
| 14. Wearing apparel | |
| 15. Leather and related products | |
| 16. Wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | |
| 17. Paper and paper products | |
| 18. Printing and reproduction of recorded media | |
| 19. Coke and refined petroleum products | |
| 20. Chemicals and chemical products | |
| 21. Basic pharmaceutical products and pharmaceutical preparations | |
| 22. Rubber and plastic products | |
| 23. Other non-metallic mineral products | |
| 24. Basic metals | |
| 25. Fabricated metal products, except machinery and equipment | |
| 26. Computer, electronic and optical products | |
| 27. Electrical equipment | |
| 28. Machinery and equipment n.e.c. | |
| 29. Motor vehicles, trailers and semi-trailers | |
| 30. Other transport equipment | |
| 31. Furniture | |
| 32. Other manufacturing | |
| 33. Repair and installation of machinery and equipment | |
| TOTAL | |
| of which: confidential | |

Please provide any explanations or clarifications which will help with the interpretation of data requested in any part of this questionnaire.

For consultation purposes only

To **submit data directly to the UIS**, please click on the **[Submit]** button below. An email will be sent to you to confirm receipt. If you do not receive this confirmation, please verify the email address provided in the respondent information and try again.

Submit

Instructions for completing the questionnaire

The following examples illustrate how to report manufacturing firms in the questionnaire.

Example 1: Firms 1, 3 and 4 are product innovators; Firms 2, 3 and 4 are process innovators; Firms 4 and 5 have abandoned or ongoing activities; Firms 1 and 7 are organizational innovators and Firm 7 is a marketing innovator.

| Manufacturing firms | Product innovation | Process innovation | Abandoned or ongoing activities | Organizational innovation | Marketing innovation |
|---------------------|--------------------|--------------------|---------------------------------|---------------------------|----------------------|
| Firm 1 | X | | | X | |
| Firm 2 | | X | | | |
| Firm 3 | X | X | | | |
| Firm 4 | X | X | X | | |
| Firm 5 | | | X | | |
| Firm 6 | | | | | |
| Firm 7 | | | | X | X |

A. In **Section 3**, firms should be reported as follows:

- **Product innovators (Column A):** Firms 1, 3 and 4;
- **Process innovators (Column B):** Firms 2, 3 and 4;
- **Both product and process innovators (Column C):** Firms 3 and 4;
- **Firms with abandoned or ongoing activities only (Column D):** Firm 5;
- **Product or process innovation-active firms (SUBTOTAL (A+B+D-C)):** Firms 1, 2, 3, 4 and 5;
- **Product or process non-innovative firms (Column E):** Firms 6 and 7.

B. In **Tables 4.1, 5.1, 6.2 and 7.1.1**, firms should be reported as follows:

- **Total number of innovation-active manufacturing firms:** Firms 1, 2, 3, 4 and 5 (which corresponds to the SUBTOTAL in Tables 3.1 and 3.3.1/3.3.2);
- Firms that are organizational and/or marketing innovators only should not be included in these tables.

C. In **Table 7.2.1**, firms should be reported as follows:

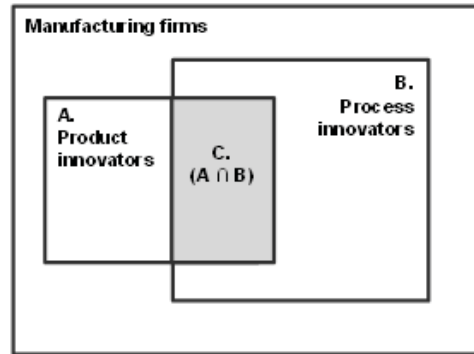
- **Total number of non-innovation manufacturing firms:** Firms 6 and 7 (which corresponds to Column E in Tables 3.1 and 3.3.1/3.3.2).

D. In **Section 8**, Firms 1 and 7 should be reported as organizational innovators.

E. In **Section 9**, Firm 7 should be reported as a marketing innovator.

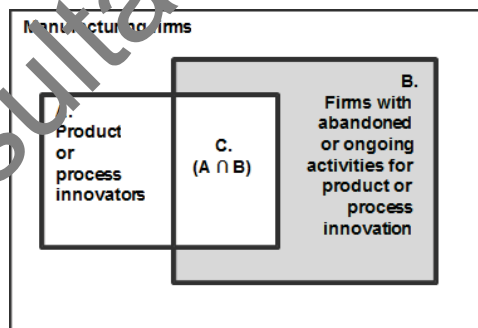
Example 2: Calculating the number of manufacturing firms that implemented both product and process innovation

- A contains the number of manufacturing firms that are product innovators;
- B contains the number of manufacturing firms that are process innovators;
- C, the area in grey, is the intersection (\cap) of A and B. It contains the number of manufacturing firms that implemented both product and process innovation and corresponds to Column C in Tables 3.1 and 3.3.1/3.3.2;
- This is regardless of organizational or marketing innovation.



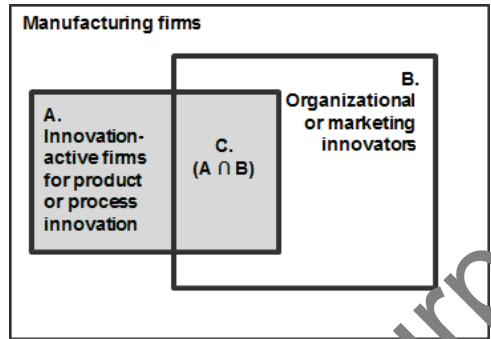
Example 3: Calculating the number of manufacturing firms with abandoned or ongoing innovation activities only

- A contains the number of manufacturing firms that are product or process innovators;
- B contains the number of manufacturing firms with abandoned or ongoing activities;
- C, the intersection of A and B, contains the number of manufacturing firms that implemented product or process innovations and also had abandoned or ongoing activities;
- The number of manufacturing firms with abandoned or ongoing activities only is the area in grey which excludes C. It corresponds to Column D in Tables 3.1 and 3.3.1/3.3.2;
- This is regardless of organizational or marketing innovation.



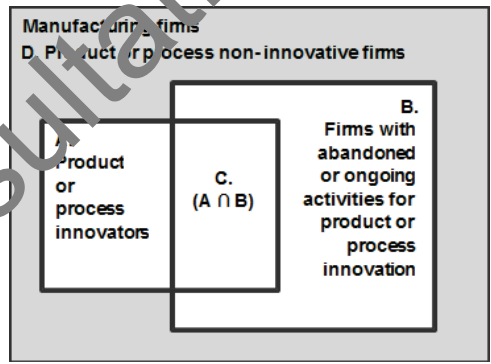
Example 4: Calculating the number of product or process innovation-active manufacturing firms, regardless of organizational or marketing innovation

- A contains the number of product or process innovation-active manufacturing firms. This area in grey includes product or process innovators and firms with abandoned or ongoing innovation activities for product or process innovation, regardless of organizational or marketing innovation. It corresponds to the first row of Tables 4.1, 5.1, 6.2 and 7.1.1;
- B contains organizational or marketing innovators;
- C, the intersection of A and B, contains product or process innovation-active firms that were also organizational or marketing innovators (these firms should be included);
- The white area of B represents the firms that were only organizational or marketing innovators (these firms should not be included).



Example 5: Calculating the number of product or process non-innovative firms

- D, the area in grey, contains the number of product or process non-innovative manufacturing firms. It corresponds to Column E in Tables 3.1, 3.3.1 and 3.3.2;
- This is regardless of organizational or marketing innovation.



For consultation purposes only

Abandoned innovation activities: activities that were abandoned before the implementation of an innovation.

All manufacturing firms: total number of firms in the manufacturing industry.

Both product and process innovators: firms that implemented product innovation as well as process innovation.

Business population: all firms in the business sector, which can be disaggregated by economic activity and size class.

Cooperation: is the active participation in joint innovation projects with other organizations. These may either be other business firms or non-commercial institutions. The partners do not need to derive immediate commercial benefit from the venture. Contracting out of work, where there is no active collaboration, is not regarded as cooperation.

Firm: generic term which refers to the statistical unit in the national innovation survey, for example, the enterprise, enterprise group or establishment.

Firms with abandoned or ongoing innovation activities only: firms that did not implement product or process innovation but had abandoned or ongoing innovation activities to develop product or process innovation.

Grossed up results: results of the survey extrapolated to the whole target population. Sample survey data represent units in the sample only. Therefore, the sample estimates need to be inflated to represent the whole population of interest. Estimation is the means by which this inflation occurs, also referred to as "grossing up".

Hampering factors: factors that slow, negatively affect or even prevent firms from starting innovation activities. These factors include: economic factors, such as high costs; knowledge factors, such as lack of skilled personnel and market factors, such as uncertainty in the demand for innovative products.

Innovation: the implementation of a new or significantly improved product or process and a new marketing or organizational method by a firm. An innovation must be new to the firm, although it could already have been implemented by other firms.

Innovation activities: are all scientific, technological, organizational, financial and commercial steps which actually lead, or are intended to lead, to the implementation of innovations. Some innovation activities are themselves innovative; others are not novel activities but are necessary for the implementation of innovations. Innovation activities also include R&D that is not directly related to the development of a specific innovation. Innovation activities, as defined by the Oslo Manual, include:

- **Acquisition of machinery, equipment and software:** the acquisition of advanced machinery, equipment and computer hardware or software to produce innovations;
- **Acquisition of other external knowledge:** the purchase or licensing of patents and non-patented inventions, know-how and other types of knowledge from other firms or organizations for the development of innovations;
- **Contracted out R&D:** any creative work undertaken to increase the stock of knowledge for developing innovations but performed by other firms (including other firms or subsidiaries within the group) or by public or private research organizations and purchased by the firm;
- **In-house R&D:** any creative work undertaken within the firm to increase the stock of knowledge for developing innovations (see the Frascati Manual);
- **Market introduction of innovations:** activities for the market introduction of product innovations, including market research and launch advertising;
- **Other preparations:** the procedures and technical preparations to implement innovations that are not covered elsewhere;
- **Training:** internal or external training of personnel specifically for the development and/or introduction of innovations.

Innovation-active firms: shorter term for product or process innovation-active firms. Some countries use this term to refer to firms that implemented product, process, organizational or marketing innovation or had abandoned or ongoing innovation activities to develop any of these types of innovation.

Marketing innovation: implementation of a new marketing method involving significant changes in product design or packaging, product placement, product promotion or pricing.

Marketing innovators: firms that implemented marketing innovation.

Ongoing innovation activities: work in progress during the period under observation which had not yet resulted in the implementation of an innovation.

Organizational innovation: implementation of a new organizational method in a firm's business practices, workplace organization or external relations.

Organizational innovators: firms that implemented organizational innovation.

Process innovation: implementation of a new or significantly improved production or delivery method. This includes significant changes in techniques, equipment and/or software.

Process innovators: firms that implemented process innovation.

Product innovation: implementation of a good or service that is new or significantly improved with respect to its characteristics or intended uses. This includes significant improvements in technical specifications, components and materials, incorporated software, user friendliness or other functional characteristics.

Product innovators: firms that implemented product innovation.

Product or process innovation-active firms: firms which implemented either product or process innovation or had abandoned or ongoing innovation activities to develop product or process innovation.

Product or process innovators: firms that implemented only product innovation, only process innovation or both product and process innovation.

Product or process non-innovative firms: firms without any kind of product or process innovation activity. These firms did not have any product or process innovation implemented, or abandoned or ongoing innovation activities to develop product or process innovation.

Respondents: the number of firms that responded to your innovation survey.

Sample size: the number of firms in the sample.

Size class: classification used to define the size of a statistical unit in innovation surveys. Breakdowns may include micro, small, medium sized and large firms.

Sources of information: sources that provided information for new innovation projects or contributed to the completion of existing innovation projects.

Target population: all statistical units (innovators and non-innovators, for instance) in the business sector covered by your innovation survey. This includes both goods-producing and services industries.

Your innovation survey: the national innovation survey from which the data are being reported in this questionnaire, preferably the most recent one.