

**Slovenia**

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**[INDEP19]<sup>3</sup> Innovation activities of Slovenian  
companies in the forest-based value chain, 2019**

**Study Documentation**

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# Table of Contents

<a href="#">Overview</a> .....	4
<a href="#">Scope &amp; Coverage</a> .....	4
<a href="#">Producers &amp; Sponsors</a> .....	5
<a href="#">Sampling</a> .....	5
<a href="#">Data Collection</a> .....	5
<a href="#">Data Processing &amp; Appraisal</a> .....	6
<a href="#">Accessibility</a> .....	6
<a href="#">Files Description</a> .....	7
<a href="#">Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]</a> .....	7
<a href="#">Variables Group(s)</a> .....	8
<a href="#">Questionnaire version and other</a> .....	8
<a href="#">Company bussines</a> .....	8
<a href="#">Company innovation activities</a> .....	9
<a href="#">Obstacles to innovation</a> .....	15
<a href="#">Field of innovation</a> .....	17
<a href="#">Environment and patents</a> .....	23
<a href="#">Company information</a> .....	25
<a href="#">Variables Description</a> .....	26
<a href="#">Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]</a> .....	27

## [INDEP19]<sup>3</sup> Innovation activities of Slovenian companies in the forest-based value chain, 2019

### *Inovacijske dejavnosti slovenskih podjetij v gozdno-lesni verigi, 2019*

Overview	
<b>Identification</b>	indep19-en
<b>Abstract</b> Slovenia was identified as a region lagging in innovation and this is particularly noticeable in the country's forest-based value chain. However, Slovenia's Smart Specialisation Strategy identified this industry as having a strong potential for growth. To leverage the innovation and growth potential of the forest-based value chain, we need to gain a deeper understanding of existing innovation activities and reasons for the lack of innovation activities. On the EU level, data on innovation activities are collected by the Community Innovation Survey (CIS), which has been carried out every two years since 2006. However, the survey only includes companies with 10 or more employees. Since micro companies represent more than 90% of forest-based value chain companies in Slovenia, data on their innovation activities is needed to fully understand it. The present research covers the market and innovation activities of Slovenian companies in the forest-timber sector, whereby companies of all sizes were covered. Research covers the period 2016-2018. The research contains two data files, that is file containing the paradata, accessible under special conditions viz. on request via a secure connection (SUF version), which includes two types of data sources – one created by author and other imported from other sources (Bizi.si registry - postal district, legal form, number of employees and NACE code) and questionnaire-based data file that is accessible upon prior registration (and an additional file in .xlsx format, with anonymized answers to two open questions).	
<b>Kind of Data</b>	Numeric
<b>Unit of Analysis</b>	Organization/Institution

Scope & Coverage	
<b>Keywords</b>	company, innovation, innovation activities, marketing activities, forest chain, product innovation, process innovation, innovation cooperation partners, effects of innovation, product, services, sources of information for innovation, BUSINESSES, INDUSTRIAL ENTERPRISES, PRODUCTION, INNOVATION, PRODUCTS
<b>Topics</b>	Trade, industry and markets, Business/industrial management and organisation, Wood, pulp and paper technology, BUSINESS OF THE COMPANY, COMPANY INNOVATION ACTIVITIES, OBSTACLES TO INNOVATION, FIELD OF INNOVATION, ENVIRONMENT AND PATENTS, COMPANY INFORMATION
<b>Time Period(s)</b>	2019
<b>Countries</b>	Slovenia
<b>Geographic Coverage</b> Slovenia	
<b>Universe</b> Active Slovenian companies (January 2019), which were established before 1. 1. 2016, whose main activity corresponds to the following SKD (NACE) codes: A02.100 A02.200 A02.400 C16.100 C16.210 C16.220 C16.230 C16.240 C16.290 C17.110 C17.120 C17.210 C17.220 C17.230 C17.290 C31.010 C31.020 C31.090 C32.120 C32.130 C32.200 C32.300 C32.400 C32.910 F41.100 F41.200 G46.73. Inactive companies, companies created after 31 December 2015, companies in bankruptcy or liquidation, agrarian communities, associations and stakeholders.	

<b>Producers &amp; Sponsors</b>	
<b>Primary Investigator(s)</b>	Slavec, Ana, InnoRenew CoE Burnard, Michael David, InnoRenew CoE
<b>Other Producer(s)</b>	InnoRenew CoE (INNORENEW)
<b>Funding Agency/ies</b>	European Commission, European Union Framework Program, Horizon 2020 (HORIZON 2020 WIDESPREAD-2-Teaming) (EC)
<b>Other Acknowledgment(s)</b>	, questionnaire preparation and data collection , InnoRenew CoE , participation in project team , Nacionalni inštitut za javno zdravje = National Institute of Public Health , participation in project team , Nacionalni inštitut za javno zdravje = National Institute of Public Health , participation in project team , Zavod e-OBLAK = EuroCloud Slovenia , participation in project team , Regionalna razvojna agencija Ljubljanske urbane regije = Regional Development Agency of the Ljubljana Urban Region , entering questionnaires , InnoRenew CoE , entering questionnaires , InnoRenew CoE , project manager , InnoRenew CoE

<b>Sampling</b>
<p><b><u>Sampling Procedure</u></b> Total universe/Complete enumeration The Bizi.si registry was used as a sample framework. The sample included the entire population of companies in the forest-based value chain that were established before 1 January 2016 and were still active in January 2019. The working definition of the forest-based chain was used, so the sample included 7123 companies whose main activity according to the NACE (SKD) code is: Forestry (A02) - n = 740, Construction (G41) - n = 2651, Trade (G46) - n = 448, Furniture industry (C31) - n = 995, Wood industry C16) - n = 1747, Paper industry (C17) - n = 152, Other industrial activity (C32) - n = 390. The paradata data file contains 7125 units, that is 7123 known units and 2 unknown units (they did not provide an ID number when filling in the questionnaire), where the answers of the latter are taken into account in the analysis. Questionnaires completed in full (n = 289) and partially (n = 5) were used in the analysis.</p>
<p><b><u>Response Rate</u></b> Out of all 7125 (of which 2 unknown units) companies in the population, 294 companies completed the questionnaire, which represents a 4.1% response rate. The response rate shown in the report is calculated according to AAPOR standard definitions, using the RR2 formula (the ratio of completed questionnaires to the total sample without units that are not eligible).</p>
<p><b><u>Weighting</u></b> No.</p>

<b>Data Collection</b>	
<b>Data Collection Dates</b>	start 2019-02-15 end 2019-10-15
<b>Time Period(s)</b>	start 2016 end 2018
<b>Data Collection Mode</b>	Self-administered questionnaire: Web-based Self-administered questionnaire: Paper
<p><b><u>Data Collection Notes</u></b> In the first step, a consignment was sent to the address of all 7123 companies from the Bizi.si registry that met the conditions on 15 February, containing a letter with a link to the web questionnaire on LimeSurvey, a paper version of the questionnaire (one of 4), a fact sheet with frequently asked questions and a return envelope with postage paid. In the second step, 2 reminders were sent via email, to companies with a known email address. In the third step, the reminder (in the form of a</p>	

primary consignment) was sent again by post, but only to the companies crucial for the research (the main activity is the production of wood and products of wood and cork (C16) or manufacture of furniture (C31)), otherwise the costs would be excessive. In the fourth step, 2 more reminders were sent to all companies, with a known e-mail address, via e-mail. The authors received 294 completed questionnaires, of which 289 were completed in full. 219 companies (74%) answered the paper questionnaire and 75 companies (26%) answered the online questionnaire. A telephone number was available for 70% of companies, and an e-mail address for 32% of companies. See report for details.

### **Questionnaires**

Structured questionnaire

<b>Data Collector(s)</b>	InnoRenew CoE
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### **Supervision**

4 reminders were sent to companies via e-mail and also an additional letter to the selected companies via regular mail was sent. For companies with failed postal delivery or where an email address was not available or was invalid, the eligibility was manually checked in the Bizi.si registry (but not for all). Some companies were also called over the phone to check their eligibility.

## **Data Processing & Appraisal**

### **Data Editing**

The data were manually cleaned in Excel. Open questions were coded.

## **Accessibility**

<b>Access Authority</b>	Slovenian Social Science Data Archives (ADP) (ADP) , <a href="http://www.adp.fdv.uni-lj.si/">http://www.adp.fdv.uni-lj.si/</a> , <a href="mailto:arhiv.podatkov@fdv.uni-lj.si">arhiv.podatkov@fdv.uni-lj.si</a>
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<b>Distributor(s)</b>	Slovenian Social Science Data Archives (ADP)
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<b>Depositor(s)</b>	InnoRenew CoE
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### **Access Conditions**

In case of ambiguity the users of the data set are advised to contact principal investigators or Archive.

### **Citation Requirements**

The users should acknowledge in any publication both the original depositors and the Archive.

# Files Description

Dataset contains 1 file(s)

<b>Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]</b>	
# Cases	294
# Variable(s)	187
<b><u>File Content</u></b> Data file contains data obtained with questionnaire.	
<b><u>Producer</u></b> ADP	
<b><u>Version</u></b> 14. December 2021 Slovenian Social Science Data Archives (ADP) We suggest you look at the data in the English catalog.	

## Variables Group(s)

Dataset contains 7 group(s)

<b>Group Questionnaire version and other</b>							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	ZAP_ST1	Consecutive number	discrete	numeric-3.0	294	0	Consecutive number
2	SKD	NACE classification code	discrete	numeric-8.0	294	0	NACE classification code
3	VER_VPR	Questionnaire version	discrete	numeric-8.0	294	0	Questionnaire version
4	ODG_PRE	Response received on	discrete	character-10	294	0	Response received on
5	TIME	Response time (minutes)	discrete	numeric-5.0	75	219	Response time (minutes)
6	RES_ENT	Response entered by	discrete	numeric-8.0	294	0	Response entered by

<b>Group Company bussines</b>							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q01_1	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Local/regional within Slovenia]	discrete	numeric-8.0	258	36	Local/regional within Slovenia
2	Q01_2	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [National (other regions of Slovenia)]	discrete	numeric-8.0	211	83	National (other regions of Slovenia)
3	Q01_3	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Other countries in the European Union or associated countries]	discrete	numeric-8.0	192	102	Other countries in the European Union or associated countries (Albania, Bosnia and Hezegovina, FYROM, Kosovo, Liechtenstein, Montenegro, Norway, Serbia, Switzerland, Turkey)
4	Q01_4	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Other countries outside Europe]	discrete	numeric-8.0	155	139	Other countries outside Europe
5	Q02_1	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Improving your existing products]	discrete	numeric-8.0	282	12	Improving your existing products
6	Q02_2	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Introducing entirely new products]	discrete	numeric-8.0	268	26	Introducing entirely new products
7	Q02_3	2. During the three years 2016 to 2018, how important were each of the following	discrete	numeric-8.0	274	20	Reaching new customer groups



#	Name	Label	Type	Format	Valid	Invalid	Question
		strategies to your enterprise? [Reaching new customer groups]					
8	Q02_4	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Customer specific solutions]	discrete	numeric-8.0	276	18	Customer specific solutions
9	Q02_5	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Low-price]	discrete	numeric-8.0	268	26	Low-price

### Group Company innovation activities

#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q03_A	3a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved goods?	discrete	numeric-8.0	282	12	3a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved goods?
2	Q03_B1	3b. Who developed these goods? [Your enterprise by itself]	discrete	numeric-8.0	106	188	Your enterprise by itself
3	Q03_B2	3b. Who developed these goods? [Your enterprise together with other enterprises or organisations]	discrete	numeric-8.0	62	232	Your enterprise together with other enterprises or organisations
4	Q03_B3	3b. Who developed these goods? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]	discrete	numeric-8.0	53	241	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations
5	Q03_B4	3b. Who developed these goods? [Other enterprises or organisations]	discrete	numeric-8.0	52	242	Other enterprises or organisations
6	Q04_A	4a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved services?	discrete	numeric-8.0	280	14	During the three years 2016 to 2018, did your enterprise introduce new or significantly improved services?
7	Q04_B1	4b. Who developed these services? [Your enterprise by itself]	discrete	numeric-8.0	88	206	Your enterprise by itself
8	Q04_B2	4b. Who developed these services? [Your enterprise together with other enterprises or organisations]	discrete	numeric-8.0	56	238	Your enterprise together with other enterprises or organisations
9	Q04_B3	4b. Who developed these services? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]	discrete	numeric-8.0	47	247	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations

#	Name	Label	Type	Format	Valid	Invalid	Question
10	Q04_B4	4b. Who developed these services? [Other enterprises or organisations]	discrete	numeric-8.0	50	244	Other enterprises or organisations
11	Q05_A1	5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018: [New to your market?]	discrete	numeric-8.0	105	189	New to your market? (it may have already been available in other markets)
12	Q05_A2	5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018: [Only new to your enterprise?]	discrete	numeric-8.0	104	190	Only new to your enterprise? (available from your competitors in your market)
13	Q05_B1	5b. If yes, please give the percent of your total turnover in 2016 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018. [only new to your market]	discrete	numeric-8.0	26	268	% of turnover for products only new to your market
14	Q05_B2	5b. If yes, please give the percent of your total turnover in 2016 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018. [only new to your enterprise]	discrete	numeric-8.0	33	261	% of turnover for products only new to your enterprise
15	Q06_A1	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Production process]	discrete	numeric-8.0	271	23	Production process (methods of manufacturing for producing goods or services)
16	Q06_A2	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Distribution methods]	discrete	numeric-8.0	260	34	Distribution methods (logistics, delivery, or other) for your inputs, goods or services
17	Q06_A3	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Supporting activities for your processes]	discrete	numeric-8.0	263	31	Supporting activities for your processes, such as maintenance systems of operations for purchasing, accounting or computing
18	Q06_B1	6b. Who developed these processes? [Your enterprise by itself]	discrete	numeric-8.0	126	168	Your enterprise by itself
19	Q06_B2	6b. Who developed these processes? [Your enterprise together with other enterprises or organisations]	discrete	numeric-8.0	86	208	Your enterprise together with other enterprises/organisations
20	Q06_B3	6b. Who developed these processes? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]	discrete	numeric-8.0	64	230	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations

#	Name	Label	Type	Format	Valid	Invalid	Question
21	Q06_B4	6b. Who developed these processes? [Other enterprises or organisations]	discrete	numeric-8.0	73	221	Other enterprises or organisations
22	Q07_1	7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were: [Abandoned or suspended]	discrete	numeric-8.0	249	45	Abandoned or suspended before completion?
23	Q07_2	7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were: [Still ongoing]	discrete	numeric-8.0	237	57	Still ongoing at the end of 2018?
24	Q08_A1	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [In-house research and development]	discrete	numeric-8.0	155	139	In-house research and development
25	Q08_A2	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [External research and development]	discrete	numeric-8.0	155	139	External research and development
26	Q08_A3	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Acquisition of machinery, equipment, software & buildings]	discrete	numeric-8.0	155	139	Acquisition of machinery, equipment, software & buildings
27	Q08_A4	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Acquisition of existing knowledge from other enterprises or organisations]	discrete	numeric-8.0	155	139	Acquisition of existing knowledge from other enterprises or organisations
28	Q08_A5	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Training for innovative activities]	discrete	numeric-8.0	155	139	Training for innovative activities
29	Q08_A6	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Market introduction of innovations]	discrete	numeric-8.0	155	139	Market introduction of innovations
30	Q08_A7	8a. During the three years 2016 to 2018, did your enterprise engage in the	discrete	numeric-8.0	155	139	Design

#	Name	Label	Type	Format	Valid	Invalid	Question
		following innovation activities? [Design]					
31	Q08_A8_n	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [None]	discrete	numeric-8.0	155	139	None
32	Q08_A8_o	8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Other]	discrete	numeric-8.0	155	139	Other
33	Q08_B1	8b. How much did your spend on each of them? [In-house research and development]	discrete	numeric-8.0	44	250	In-house research and development
34	Q08_B2	8b. How much did your spend on each of them? [External research and development]	discrete	numeric-8.0	22	272	External research and development
35	Q08_B3	8b. How much did your spend on each of them? [Acquisition of machinery, equipment, software & buildings]	discrete	numeric-8.0	73	221	Acquisition of machinery, equipment, software & buildings
36	Q08_B4	8b. How much did your spend on each of them? [Acquisition of existing knowledge from other enterprises or organisations]	discrete	numeric-8.0	19	275	Acquisition of existing knowledge from other enterprises or organisations
37	Q08_B5	8b. How much did your spend on each of them? [Training for innovative activities]	discrete	numeric-8.0	17	277	Training for innovative activities
38	Q08_B6	8b. How much did your spend on each of them? [Market introduction of innovations]	discrete	numeric-8.0	10	284	Market introduction of innovations
39	Q08_B7	8b. How much did your spend on each of them? [Design]	discrete	numeric-8.0	22	272	Design
40	Q08_B8	8b. How much did your spend on each of them? [Other]	discrete	numeric-8.0	3	291	Other
41	Q08_C	8c. If your enterprise performed in-house research and development during 2016 to 2018, did it do so:	discrete	numeric-8.0	74	220	8c. If your enterprise performed in-house research and development during 2016 to 2018, did it do so:
42	Q09_01	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Your enterprise (group)]	discrete	numeric-8.0	122	172	Your enterprise (group)
43	Q09_02	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of	discrete	numeric-8.0	127	167	Suppliers of equipment, materials, components, or software

#	Name	Label	Type	Format	Valid	Invalid	Question
		the following informaton sources? [Suppliers of equipment, materials, components, or software ]					
44	Q09_03	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Clients or customers from the private sector]	discrete	numeric-8.0	124	170	Clients or customers from the private sector
45	Q09_04	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Clients or customers from the public sector]	discrete	numeric-8.0	112	182	Clients or customers from the public sector
46	Q09_05	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Competitors or other enterprises in your sector]	discrete	numeric-8.0	120	174	Competitors or other enterprises in your sector
47	Q09_06	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Consultants or commercial labs]	discrete	numeric-8.0	113	181	Consultants or commercial labs
48	Q09_07	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Universities or other higher education institutes]	discrete	numeric-8.0	113	181	Universities or other higher education institutes
49	Q09_08	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Government or public research institutes]	discrete	numeric-8.0	112	182	Government, public or private research institutes
50	Q09_09	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Conferences, trade fairs, exhibitions]	discrete	numeric-8.0	117	177	Conferences, trade fairs, exhibitions
51	Q09_10	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Scientific/	discrete	numeric-8.0	115	179	Scientific/technical journals or trade publications

#	Name	Label	Type	Format	Valid	Invalid	Question
		technical journals or trade publications]					
52	Q09_11	9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Professional or industry associations]	discrete	numeric-8.0	116	178	Professional or industry associations
53	Q10_A1	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [A. Other enterprises within your enterprise group]	discrete	numeric-8.0	119	175	Other enterprises within your enterprise group
54	Q10_A2	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [B. Suppliers of equipment, materials, components, or software ]	discrete	numeric-8.0	126	168	Suppliers of equipment, materials, components, or software
55	Q10_A3	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [C. Clients or customers from the private sector]	discrete	numeric-8.0	122	172	Clients or customers from the private sector
56	Q10_A4	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [D. Clients or customers from the public sector]	discrete	numeric-8.0	114	180	Clients or customers from the public sector
57	Q10_A5	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [E. Competitors or other enterprises in your sector]	discrete	numeric-8.0	117	177	Competitors or other enterprises in your sector
58	Q10_A6	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [F. Consultants or commercial labs]	discrete	numeric-8.0	117	177	Consultants or commercial labs
59	Q10_A7	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [G.	discrete	numeric-8.0	116	178	Universities or other higher education institutes

#	Name	Label	Type	Format	Valid	Invalid	Question
		Universities or other higher education institutes]					
60	Q10_A8	10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [H. Government or public research institutes]	discrete	numeric-8.0	115	179	Government, public or private research institutes
61	Q10_B	10b. Which type of innovation partner in question 10a has the most impact? (Please select one letter from A to I.)	discrete	numeric-8.0	90	204	10b. Which type of innovation partner in question 10a has the most impact? (Please select one letter from A to I.)
62	Q11_1	11. During the three years 2016 to 2018, did your enterprise introduce new: [Business practices for organising procedures]	discrete	numeric-8.0	258	36	Business practices for organising procedures
63	Q11_2	11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of organising work responsibilities and decision making]	discrete	numeric-8.0	254	40	Methods of organising work responsibilities and decision making (i.e. first time use of a new system of employee responsibilities, etc.)
64	Q11_3	11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of organising external relations with other enterprises or public organisations]	discrete	numeric-8.0	249	45	Methods of organising external relations with other enterprises or public organisations (i.e. first time use of alliances, outsourcing, etc.)
65	Q11_4	11. During the three years 2016 to 2018, did your enterprise introduce new: [Aesthetic design or packaging of a good or service]	discrete	numeric-8.0	254	40	Aesthetic design or packaging of a good or service (exclude changes that alter the product's functional or user characteristics)
66	Q11_5	11. During the three years 2016 to 2018, did your enterprise introduce new: [Media or techniques for product promotion]	discrete	numeric-8.0	252	42	Media or techniques for product promotion (i.e. first time use of a new advertising media, a new brand image, introduction of loyalty cards, etc.)
67	Q11_6	11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods for product placement or sales channels]	discrete	numeric-8.0	251	43	Methods for product placement or sales channels (i.e. first time use of franchising or distribution licenses, direct selling, etc.)
68	Q11_7	11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of pricing goods or services]	discrete	numeric-8.0	253	41	Methods of pricing goods or services (i.e. first time use of variable pricing by demand, etc.)

### Group Obstacles to innovation

#	Name	Label	Type	Format	Valid	Invalid	Question
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#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q12	12. Which of the following best describes why your enterprise had no innovation activities?	discrete	numeric-8.0	64	230	12. Which of the following best describes why your enterprise had no innovation activities?
2	Q13_1	13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [Low demand for innovations in your market]	discrete	numeric-8.0	59	235	Low demand for innovations in your market
3	Q13_2	13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [No need to innovate due to previous innovations]	discrete	numeric-8.0	55	239	No need to innovate due to previous innovations
4	Q13_3	13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [No need to innovate due to very little competition in your enterprise's market]	discrete	numeric-8.0	55	239	No need to innovate due to very little competition in your enterprise's market
5	Q13_4	13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [Lack of good ideas for innovations]	discrete	numeric-8.0	55	239	Lack of good ideas for innovations
6	Q14_1	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of internal finance for innovation]	discrete	numeric-8.0	23	271	Lack of internal finance for innovation
7	Q14_2	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of credit or private equity]	discrete	numeric-8.0	21	273	Lack of credit or private equity
8	Q14_3	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of skilled employees within your enterprise]	discrete	numeric-8.0	20	274	Lack of skilled employees within your enterprise
9	Q14_4	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Difficulties in obtaining government grants or subsidies for innovation]	discrete	numeric-8.0	21	273	Difficulties in obtaining government grants or subsidies for innovation
10	Q14_5	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of collaboration partners]	discrete	numeric-8.0	21	273	Lack of collaboration partners



#	Name	Label	Type	Format	Valid	Invalid	Question
11	Q14_6	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Uncertain market demand for your ideas for innovation]	discrete	numeric-8.0	22	272	Uncertain market demand for your ideas for innovation
12	Q14_7	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Too much competition in your market]	discrete	numeric-8.0	21	273	Too much competition in your market
13	Q14_8	14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Legislation/regulation ]	discrete	numeric-8.0	20	274	Legislation/regulation

### Group Field of innovation

#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q15_A01	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [A. Collection of data with sensors]	discrete	numeric-8.0	128	166	Collection of data with sensors
2	Q15_A02	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [B. Collaboration with IT or data experts ]	discrete	numeric-8.0	129	165	Collaboration with IT or data experts
3	Q15_A03	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [C. Digital simulation of products or the manufacturing process]	discrete	numeric-8.0	128	166	Digital simulation of products or the manufacturing process
4	Q15_A04	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [D. Augmented and virtual reality]	discrete	numeric-8.0	125	169	Augmented and virtual reality
5	Q15_A05	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [E. Usage of collaborative platforms and social tools to involve customer input]	discrete	numeric-8.0	124	170	Usage of collaborative platforms and social tools to involve customer input

#	Name	Label	Type	Format	Valid	Invalid	Question
6	Q15_A06	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [F. Internet of Things (IoT)]	discrete	numeric-8.0	124	170	Internet of Things (IoT)
7	Q15_A07	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [G. Preparation for Industry 4.0]	discrete	numeric-8.0	121	173	Preparation for Industry 4.0
8	Q15_A08	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [H. Preparation of digital models of your products for Building Information Modeling]	discrete	numeric-8.0	123	171	Preparation of digital models of your products for Building Information Modeling (BIM)
9	Q15_A09	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [I. Personalized smart products and services]	discrete	numeric-8.0	119	175	Personalized smart products and services
10	Q15_A10	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [J. 3D printing technology]	discrete	numeric-8.0	122	172	3D printing technology
11	Q15_A11	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [K. Automation of production lines]	discrete	numeric-8.0	125	169	Automation of production lines
12	Q15_A12	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitalisation? [L. Digitalization of logistics and sales systems]	discrete	numeric-8.0	123	171	Digitalization of logistics and sales systems
13	Q15_B01	15b. Are you planning to introduce any of the innovations listed in 15a in future? [A. Collection of data with sensors]	discrete	numeric-8.0	41	253	Collection of data with sensors
14	Q15_B02	15b. Are you planning to introduce any of the innovations listed in 15a in	discrete	numeric-8.0	39	255	Collaboration with IT or data experts

#	Name	Label	Type	Format	Valid	Invalid	Question
		future? [B. Collaboration with IT or data experts ]					
15	Q15_B03	15b. Are you planning to introduce any of the innovations listed in 15a in future? [C. Digital simulation of products or the manufacturing process]	discrete	numeric-8.0	37	257	Digital simulation of products or the manufacturing process
16	Q15_B04	15b. Are you planning to introduce any of the innovations listed in 15a in future? [D. Augmented and virtual reality]	discrete	numeric-8.0	38	256	Augmented and virtual reality
17	Q15_B05	15b. Are you planning to introduce any of the innovations listed in 15a in future? [E. Usage of collaborative platforms and social tools to involve customer input]	discrete	numeric-8.0	37	257	Usage of collaborative platforms and social tools to involve customer input
18	Q15_B06	15b. Are you planning to introduce any of the innovations listed in 15a in future? [F. Internet of Things (IoT)]	discrete	numeric-8.0	38	256	Internet of Things (IoT)
19	Q15_B07	15b. Are you planning to introduce any of the innovations listed in 15a in future? [G. Preparation for Industry 4.0]	discrete	numeric-8.0	38	256	Preparation for Industry 4.0
20	Q15_B08	15b. Are you planning to introduce any of the innovations listed in 15a in future? [H. Preparation of digital models of your products for Building Information Modeling (BIM) ]	discrete	numeric-8.0	37	257	Preparation of digital models of your products for Building Information Modeling (BIM)
21	Q15_B09	15b. Are you planning to introduce any of the innovations listed in 15a in future? [I. Personalized smart products and services]	discrete	numeric-8.0	40	254	Personalized smart products and services
22	Q15_B10	15b. Are you planning to introduce any of the innovations listed in 15a in future? [J. 3D printing technology]	discrete	numeric-8.0	39	255	3D printing technology
23	Q15_B11	15b. Are you planning to introduce any of the innovations listed in 15a in future? [K. Automation of production lines]	discrete	numeric-8.0	47	247	Automation of production lines
24	Q15_B12	15b. Are you planning to introduce any of the innovations listed in 15a in future? [L. Digitalization of logistics and sales systems]	discrete	numeric-8.0	41	253	Digitalization of logistics and sales systems
25	Q15_B13	15b. Are you planning to introduce any of the	discrete	numeric-8.0	97	197	None of the above

#	Name	Label	Type	Format	Valid	Invalid	Question
		innovations listed in 15a in future? [None of the above]					
26	Q16_A1	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [A. Reduced material or water use per unit of output]	discrete	numeric-8.0	119	175	Reduced material or water use per unit of output
27	Q16_A2	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [B. Reduced energy use or CO2 'footprint' ]	discrete	numeric-8.0	121	173	Reduced energy use or CO2 'footprint'
28	Q16_A3	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [C. Reduced air, water, noise or soil pollution]	discrete	numeric-8.0	121	173	Reduced air, water, noise or soil pollution
29	Q16_A4	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [D. Replaced a share of materials with less polluting or hazardous substitutes]	discrete	numeric-8.0	121	173	Replaced a share of materials with less polluting or hazardous substitutes
30	Q16_A5	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [E. Replaced a share of fossil energy with renewable energy sources]	discrete	numeric-8.0	120	174	Replaced a share of fossil energy with renewable energy sources
31	Q16_A6	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [F. Recycled waste, water, or materials for own use or sale]	discrete	numeric-8.0	120	174	Recycled waste, water, or materials for own use or sale
32	Q16_A7	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [G. Facilitated recycling of product after use]	discrete	numeric-8.0	118	176	Facilitated recycling of product after use
33	Q16_A8	16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [H. Extended	discrete	numeric-8.0	120	174	Extended product life through longer-lasting, more durable products

#	Name	Label	Type	Format	Valid	Invalid	Question
		product life through longer-lasting, more durable products]					
34	Q16_B1	16b. Are you planning to introduce any of the innovations listed in 16a in future? [A. Reduced material or water use per unit of output]	discrete	numeric-8.0	44	250	Reduced material or water use per unit of output
35	Q16_B2	16b. Are you planning to introduce any of the innovations listed in 16a in future? [B. Reduced energy use or CO2 'footprint' ]	discrete	numeric-8.0	49	245	Reduced energy use or CO2 'footprint'
36	Q16_B3	16b. Are you planning to introduce any of the innovations listed in 16a in future? [C. Reduced air, water, noise or soil pollution]	discrete	numeric-8.0	46	248	Reduced air, water, noise or soil pollution
37	Q16_B4	16b. Are you planning to introduce any of the innovations listed in 16a in future? [D. Replaced a share of materials with less polluting or hazardous substitutes]	discrete	numeric-8.0	44	250	Replaced a share of materials with less polluting or hazardous substitutes
38	Q16_B5	16b. Are you planning to introduce any of the innovations listed in 16a in future? [E. Replaced a share of fossil energy with renewable energy sources]	discrete	numeric-8.0	47	247	Replaced a share of fossil energy with renewable energy sources
39	Q16_B6	16b. Are you planning to introduce any of the innovations listed in 16a in future? [F. Recycled waste, water, or materials for own use or sale]	discrete	numeric-8.0	47	247	Recycled waste, water, or materials for own use or sale
40	Q16_B7	16b. Are you planning to introduce any of the innovations listed in 16a in future? [G. Facilitated recycling of product after use]	discrete	numeric-8.0	45	249	Facilitated recycling of product after use
41	Q16_B8	16b. Are you planning to introduce any of the innovations listed in 16a in future? [H. Extended product life through longer-lasting, more durable products]	discrete	numeric-8.0	45	249	Extended product life through longer-lasting, more durable products
42	Q16_B9	16b. Are you planning to introduce any of the innovations listed in 16a in future? [None of the above]	discrete	numeric-8.0	104	190	None of the above
43	Q17_A1	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [A. Ergonomically designed product]	discrete	numeric-8.0	124	170	Ergonomically designed product

#	Name	Label	Type	Format	Valid	Invalid	Question
44	Q17_A2	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [B. Attractive appearance (visual comfort)]	discrete	numeric-8.0	129	165	Attractive appearance (visual comfort)
45	Q17_A3	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [C. Use of sound absorbing materials]	discrete	numeric-8.0	123	171	Use of sound absorbing materials
46	Q17_A4	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [D. Use of materials with health certificates]	discrete	numeric-8.0	123	171	Use of materials with health certificates
47	Q17_A5	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [E. Use of materials free from formaldehyde, benzene and other VOC]	discrete	numeric-8.0	125	169	Use of materials free from formaldehyde, benzene and other volatile organic compounds
48	Q17_A6	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [F. Products tested for safe and comfortable use]	discrete	numeric-8.0	124	170	Products tested for safe and comfortable use
49	Q17_A7	17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [G. Designed in collaboration with health experts ]	discrete	numeric-8.0	122	172	Designed in collaboration with health experts
50	Q17_B1	17b. Are you planning to introduce any of the innovations listed in 17a in future? [A. Ergonomically designed product]	discrete	numeric-8.0	34	260	Ergonomically designed product
51	Q17_B2	17b. Are you planning to introduce any of the innovations listed in 17a in future? [B. Attractive appearance (visual comfort)]	discrete	numeric-8.0	35	259	Attractive appearance (visual comfort)
52	Q17_B3	17b. Are you planning to introduce any of the innovations listed in 17a in future? [C. Use of sound absorbing materials]	discrete	numeric-8.0	33	261	Use of sound absorbing materials
53	Q17_B4	17b. Are you planning to introduce any of the innovations listed in 17a in	discrete	numeric-8.0	36	258	Use of materials with health certificates

#	Name	Label	Type	Format	Valid	Invalid	Question
		future? [D. Use of materials with health certificates]					
54	Q17_B5	17b. Are you planning to introduce any of the innovations listed in 17a in future? [E. Use of materials free from formaldehyde, benzene and other volatile organic compounds]	discrete	numeric-8.0	35	259	Use of materials free from formaldehyde, benzene and other volatile organic compounds
55	Q17_B6	17b. Are you planning to introduce any of the innovations listed in 17a in future? [F. Products tested for safe and comfortable use]	discrete	numeric-8.0	35	259	Products tested for safe and comfortable use
56	Q17_B7	17b. Are you planning to introduce any of the innovations listed in 17a in future? [G. Designed in collaboration with health experts ]	discrete	numeric-8.0	37	257	Designed in collaboration with health experts
57	Q17_B8	17b. Are you planning to introduce any of the innovations listed in 17a in future? [None of the above]	discrete	numeric-8.0	112	182	None of the above

### Group Environment and patents

#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q18	18. Does your enterprise have procedures in place to regularly identify and reduce your enterprises environmental impacts?	discrete	numeric-8.0	265	29	Does your enterprise have procedures in place to regularly identify and reduce your enterprise's environmental impacts? (For example preparing environmental audits, setting environmental performance goals, ISO 14001 certification, ISO 50001 certification, etc).
2	Q19_A_V1	19a. In the three years 2016 to 2018, did your enterprise use any by-products of its production?	discrete	numeric-8.0	191	103	19a. In the three years 2016 to 2018, did your enterprise use any by-products of its production?
3	Q19_B_V1	19b. If not, do you plan to use by-products in future?	discrete	numeric-8.0	100	194	19b. If not, do you plan to use by-products in future?
4	Q19_A_V2	19a. In the three years 2016 to 2018, did your enterprise use wood materials in your production?	discrete	numeric-8.0	9	285	19a. In the three years 2016 to 2018, did your enterprise use wood materials in your production?
5	Q19_B_V2	19b. If not, do you plan to use wood materials in future?	discrete	numeric-8.0	5	289	19b. If not, do you plan to use by-products in future?
6	Q19_A_V3	19a. In the three years 2016 to 2018, did your company use wood products for construction?	discrete	numeric-8.0	57	237	19a. In the three years 2016 to 2018, did your company use wood products for construction?
7	Q19_B_V3	19b. If not, do you plan to use wood products in future?	discrete	numeric-8.0	23	271	19b. If not, do you plan to use by-products in future?
8	Q19_A_V4	19a. In the three years 2016 to 2018, did your company sell any wood products?	discrete	numeric-8.0	15	279	19a. In the three years 2016 to 2018, did your company sell any wood products?

#	Name	Label	Type	Format	Valid	Invalid	Question
9	Q19_B_V4	19b. If not, do you plan to sell wood products in future?	discrete	numeric-8.0	6	288	19b. If not, do you plan to use by-products in future?
10	Q20_A1	20a. In the three years 2016 to 2018, did your enterprise: [A. Apply for a patent]	discrete	numeric-8.0	270	24	Apply for a patent
11	Q20_A2	20a. In the three years 2016 to 2018, did your enterprise: [B. Apply for an utility model]	discrete	numeric-8.0	268	26	Apply for an utility model
12	Q20_A3	20a. In the three years 2016 to 2018, did your enterprise: [C. Register an industrial design right]	discrete	numeric-8.0	267	27	Register an industrial design right
13	Q20_A4	20a. In the three years 2016 to 2018, did your enterprise: [D. Register a trademark]	discrete	numeric-8.0	266	28	Register a trademark
14	Q20_A5	20a. In the three years 2016 to 2018, did your enterprise: [E. Use trade secrets]	discrete	numeric-8.0	264	30	Use trade secrets
15	Q20_A6	20a. In the three years 2016 to 2018, did your enterprise: [F. Claim copyright]	discrete	numeric-8.0	263	31	Claim copyright
16	Q20_B1	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [A. Apply for a patent]	discrete	numeric-8.0	85	209	Apply for a patent
17	Q20_B2	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [B. Apply for an utility model]	discrete	numeric-8.0	86	208	Apply for an utility model
18	Q20_B3	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [C. Register an industrial design right]	discrete	numeric-8.0	83	211	Register an industrial design right
19	Q20_B4	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [D. Register a trademark]	discrete	numeric-8.0	84	210	Register a trademark
20	Q20_B5	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [E. Use trade secrets]	discrete	numeric-8.0	88	206	Use trade secrets
21	Q20_B6	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [F. Claim copyright]	discrete	numeric-8.0	82	212	Claim copyright
22	Q20_B7	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [None of the above]	discrete	numeric-8.0	226	68	None of the above



<b>Group Company information</b>							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	Q21	21. What was your total turnover for 2018?	discrete	numeric-8.0	273	21	21. What was your enterprises's total turnover for 2018? (Turnover is defined as the market sales of goods and services. Include all taxes except VAT.)
2	Q22	22. What was the percent of your total turnover from sales to clients outside your country for 2018?	discrete	numeric-8.0	131	163	22. What was the percent of your total turnover from sales to clients outside your country for 2018?
3	Q23	23. What is the percent of your RDI budget as a share of the overall income?	discrete	numeric-8.0	139	155	23. What is the percent of your enterprise's RDI budget as a share of the overall income?
4	Q24	24. What was your average number of employees in 2018?	discrete	numeric-8.0	282	12	24. What was your enterprise's average number of employees in 2018?
5	Q25_1	25. Approximately how many of your employees in 2018 [a. had a tertiary degree (undegraduate degree or more)?]	discrete	numeric-8.0	182	112	Had a tertiary degree (undegraduate degree or more)?
6	Q25_2	25. Approximately how many of your employees in 2018 [b. were in RDI positions?]	discrete	numeric-8.0	153	141	Were in RDI positions?
7	Q25_3	25. Approximately how many of your employees in 2018 [c. were simultaneously in a RDI and management position?]	discrete	numeric-8.0	162	132	Were simultaneously in a RDI and management position?
8	Q26_A	26a. Do you have enough skilled employees?	discrete	numeric-8.0	247	47	26a. Do you have enough skilled employees?
9	Q26_B_ur	26b. If no, what are the skills that you would need more of, that are in demand? (open_rec)	discrete	character-50	294	0	26b. If no, what are the skills that you would need more of, that are in demand? _open_rec
10	Q26_B	26b. If no, what are the skills that you would need more of, that are in demand?	discrete	numeric-8.0	52	242	26b. If no, what are the skills that you would need more of, that are in demand?
11	Q27_ur	27. Do you have any comment or is there anything we left out related to the topic that you consider important? (open_rec)	discrete	character-50	294	0	27. Do you have any comment or is there anything we left out related to the topic that you consider important? _open_rec
12	Q27	27. Do you have any comment or is there anything we left out related to the topic that you consider important?	discrete	numeric-8.0	34	260	27. Do you have any comment or is there anything we left out related to the topic that you consider important?

# Variables Description

Dataset contains 187 variable(s)

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

**Information** [Type= discrete] [Format=numeric] [Range= 101-394] [Missing=\*]

**Statistics [NW/ W]** [Valid=294 /-] [Invalid=0 /-] [Mean=247.5 /-] [StdDev=85.015 /-]

**Literal question** Consecutive number

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**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

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**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

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186		1	0.3%
187		1	0.3%
188		1	0.3%
189		1	0.3%
190		1	0.3%
191		1	0.3%
192		1	0.3%
193		1	0.3%
194		1	0.3%
195		1	0.3%
196		1	0.3%
197		1	0.3%
198		1	0.3%
199		1	0.3%
200		1	0.3%
201		1	0.3%
202		1	0.3%
203		1	0.3%
204		1	0.3%
205		1	0.3%
206		1	0.3%
207		1	0.3%
208		1	0.3%
209		1	0.3%
210		1	0.3%
211		1	0.3%
212		1	0.3%
213		1	0.3%
214		1	0.3%
215		1	0.3%
216		1	0.3%
217		1	0.3%
218		1	0.3%
219		1	0.3%
220		1	0.3%
221		1	0.3%
222		1	0.3%
223		1	0.3%

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

Value	Label	Cases	Percentage
224		1	0.3%
225		1	0.3%
226		1	0.3%
227		1	0.3%
228		1	0.3%
229		1	0.3%
230		1	0.3%
231		1	0.3%
232		1	0.3%
233		1	0.3%
234		1	0.3%
235		1	0.3%
236		1	0.3%
237		1	0.3%
238		1	0.3%
239		1	0.3%
240		1	0.3%
241		1	0.3%
242		1	0.3%
243		1	0.3%
244		1	0.3%
245		1	0.3%
246		1	0.3%
247		1	0.3%
248		1	0.3%
249		1	0.3%
250		1	0.3%
251		1	0.3%
252		1	0.3%
253		1	0.3%
254		1	0.3%
255		1	0.3%
256		1	0.3%
257		1	0.3%
258		1	0.3%
259		1	0.3%
260		1	0.3%
261		1	0.3%
262		1	0.3%
263		1	0.3%
264		1	0.3%
265		1	0.3%

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

Value	Label	Cases	Percentage
266		1	0.3%
267		1	0.3%
268		1	0.3%
269		1	0.3%
270		1	0.3%
271		1	0.3%
272		1	0.3%
273		1	0.3%
274		1	0.3%
275		1	0.3%
276		1	0.3%
277		1	0.3%
278		1	0.3%
279		1	0.3%
280		1	0.3%
281		1	0.3%
282		1	0.3%
283		1	0.3%
284		1	0.3%
285		1	0.3%
286		1	0.3%
287		1	0.3%
288		1	0.3%
289		1	0.3%
290		1	0.3%
291		1	0.3%
292		1	0.3%
293		1	0.3%
294		1	0.3%
295		1	0.3%
296		1	0.3%
297		1	0.3%
298		1	0.3%
299		1	0.3%
300		1	0.3%
301		1	0.3%
302		1	0.3%
303		1	0.3%
304		1	0.3%
305		1	0.3%
306		1	0.3%
307		1	0.3%

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

Value	Label	Cases	Percentage
308		1	0.3%
309		1	0.3%
310		1	0.3%
311		1	0.3%
312		1	0.3%
313		1	0.3%
314		1	0.3%
315		1	0.3%
316		1	0.3%
317		1	0.3%
318		1	0.3%
319		1	0.3%
320		1	0.3%
321		1	0.3%
322		1	0.3%
323		1	0.3%
324		1	0.3%
325		1	0.3%
326		1	0.3%
327		1	0.3%
328		1	0.3%
329		1	0.3%
330		1	0.3%
331		1	0.3%
332		1	0.3%
333		1	0.3%
334		1	0.3%
335		1	0.3%
336		1	0.3%
337		1	0.3%
338		1	0.3%
339		1	0.3%
340		1	0.3%
341		1	0.3%
342		1	0.3%
343		1	0.3%
344		1	0.3%
345		1	0.3%
346		1	0.3%
347		1	0.3%
348		1	0.3%
349		1	0.3%



**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ZAP\_ST1: Consecutive number

Value	Label	Cases	Percentage
350		1	0.3%
351		1	0.3%
352		1	0.3%
353		1	0.3%
354		1	0.3%
355		1	0.3%
356		1	0.3%
357		1	0.3%
358		1	0.3%
359		1	0.3%
360		1	0.3%
361		1	0.3%
362		1	0.3%
363		1	0.3%
364		1	0.3%
365		1	0.3%
366		1	0.3%
367		1	0.3%
368		1	0.3%
369		1	0.3%
370		1	0.3%
371		1	0.3%
372		1	0.3%
373		1	0.3%
374		1	0.3%
375		1	0.3%
376		1	0.3%
377		1	0.3%
378		1	0.3%
379		1	0.3%
380		1	0.3%
381		1	0.3%
382		1	0.3%
383		1	0.3%
384		1	0.3%
385		1	0.3%
386		1	0.3%
387		1	0.3%
388		1	0.3%
389		1	0.3%
390		1	0.3%
391		1	0.3%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # ZAP\_ST1: Consecutive number

Value	Label	Cases	Percentage
392		1	0.3%
393		1	0.3%
394		1	0.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # SKD: NACE classification code

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 99-46730] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-] [Mean=24882.034 /-] [StdDev=12980.033 /-]
<b>Literal question</b>	NACE classification code

Value	Label	Cases	Percentage
99	Not known	2	0.7%
2100	Silviculture and other forestry activities	2	0.7%
2200	Logging	12	4.1%
2400	Support services to forestry	12	4.1%
16100	Sawmilling and planing of wood	47	16.0%
16210	Manufacture of products of wood, cork, straw and plaiting ma	9	3.1%
16220	Manufacture of assembled parquet floor	1	0.3%
16230	Manufacture if other builders carpentry and joinery	29	9.9%
16240	Manufacture of wooden containers	10	3.4%
16290	Manufacture of other products if wood, manufacture of articl	20	6.8%
17120	Manufacture of paper and paperboard	2	0.7%
17210	Manufacture of corrugated paper and paperboard and of contai	4	1.4%
17220	Manufacture of household and sanitary goods and of toilet re	1	0.3%
17290	Manufacture of other articles of paper and paperboard	2	0.7%
31010	Manufacture of office and shop furniture	18	6.1%
31020	Manufacture of kitchen furniture	10	3.4%
31090	Manufacture of other furniture	29	9.9%
32120	Manufacture of jewellery and related articles	6	2.0%
32300	Manufacture of sports goods	4	1.4%
41100	Development of building projects	5	1.7%
41200	Construction of residential and non-residential buildings	54	18.4%
46730	Wholesale of wood, construction materials and sanitary equip	15	5.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # VER\_VPR: Questionnaire version

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-]
<b>Literal question</b>	Questionnaire version

Value	Label	Cases	Percentage
1	Forestry, wood, paper and furniture manufacturing	208	70.7%
2	Other manufacturing companies	10	3.4%
3	Construction companies	60	20.4%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # VER\_VPR: Questionnaire version

Value	Label	Cases	Percentage
4	Wholesale companies	16	5.4%

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # ODG\_PRE: Response received on

<b>Information</b>	[Type= discrete] [Format=character] [Missing=*]
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<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-]
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<b>Literal question</b>	Response received on
-------------------------	----------------------

Value	Label	Cases	Percentage
2019-02-15		3	1.0%
2019-02-19		2	0.7%
2019-02-20		6	2.0%
2019-02-21		5	1.7%
2019-02-22		5	1.7%
2019-02-24		2	0.7%
2019-02-25		9	3.1%
2019-02-26		22	7.5%
2019-02-27		9	3.1%
2019-02-28		29	9.9%
2019-03-01		23	7.8%
2019-03-02		1	0.3%
2019-03-04		8	2.7%
2019-03-05		5	1.7%
2019-03-06		1	0.3%
2019-03-07		5	1.7%
2019-03-08		4	1.4%
2019-03-12		3	1.0%
2019-03-13		4	1.4%
2019-03-14		1	0.3%
2019-03-15		1	0.3%
2019-03-18		4	1.4%
2019-03-19		3	1.0%
2019-03-21		2	0.7%
2019-03-23		1	0.3%
2019-03-25		3	1.0%
2019-03-26		3	1.0%
2019-03-28		1	0.3%
2019-03-29		2	0.7%
2019-04-01		1	0.3%
2019-04-02		4	1.4%
2019-04-03		1	0.3%
2019-04-04		1	0.3%
2019-04-07		1	0.3%

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# ODG\_PRE: Response received on

Value	Label	Cases	Percentage
2019-04-08		1	0.3%
2019-04-10		2	0.7%
2019-04-16		1	0.3%
2019-04-18		1	0.3%
2019-05-03		2	0.7%
2019-05-10		1	0.3%
2019-06-13		1	0.3%
2019-07-18		2	0.7%
2019-07-19		2	0.7%
2019-07-20		1	0.3%
2019-07-22		8	2.7%
2019-07-23		11	3.7%
2019-07-24		5	1.7%
2019-07-25		5	1.7%
2019-07-26		4	1.4%
2019-07-29		1	0.3%
2019-07-30		8	2.7%
2019-07-31		1	0.3%
2019-08-01		2	0.7%
2019-08-02		5	1.7%
2019-08-05		4	1.4%
2019-08-06		4	1.4%
2019-08-07		1	0.3%
2019-08-08		3	1.0%
2019-08-09		1	0.3%
2019-08-12		2	0.7%
2019-08-20		1	0.3%
2019-08-21		2	0.7%
2019-08-22		2	0.7%
2019-08-23		1	0.3%
2019-08-27		4	1.4%
2019-08-28		1	0.3%
2019-08-29		1	0.3%
2019-08-30		1	0.3%
2019-09-02		2	0.7%
2019-09-03		5	1.7%
2019-09-04		2	0.7%
2019-09-05		1	0.3%
2019-09-06		1	0.3%
2019-09-18		1	0.3%
2019-10-08		3	1.0%
2019-10-09		7	2.4%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # ODG\_PRE: Response received on

Value	Label	Cases	Percentage
2019-10-10		1	0.3%
2019-10-11		2	0.7%
2019-10-12		1	0.3%
2019-10-15		1	0.3%

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # TIME: Response time (minutes)

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 4-9999] [Missing=*/9999]
<b>Statistics [NW/ W]</b>	[Valid=75 /-] [Invalid=219 /-] [Mean=26.693 /-] [StdDev=67.703 /-]
<b>Literal question</b>	Response time (minutes)

Value	Label	Cases	Percentage
4		2	2.7%
5		3	4.0%
6		4	5.3%
7		8	10.7%
8		2	2.7%
9		2	2.7%
10		4	5.3%
11		4	5.3%
12		7	9.3%
13		5	6.7%
14		3	4.0%
15		2	2.7%
16		1	1.3%
17		2	2.7%
18		3	4.0%
19		2	2.7%
20		2	2.7%
21		2	2.7%
23		3	4.0%
24		2	2.7%
25		1	1.3%
28		1	1.3%
30		1	1.3%
33		1	1.3%
40		1	1.3%
42		1	1.3%
63		1	1.3%
80		1	1.3%
83		1	1.3%
85		1	1.3%
134		1	1.3%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # TIME: Response time (minutes)

Value	Label	Cases	Percentage
576		1	1.3%
9999		219	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # RES\_ENT: Response entered by

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-]
<b>Literal question</b>	Response entered by

Value	Label	Cases	Percentage
0	Enterprise	75	25.5%
1	InnoRenew staff 1	75	25.5%
2	InnoRenew staff 2	74	25.2%
3	InnoRenew staff 3	70	23.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q01\_1: 1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Local/regional within Slovenia]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=258 /-] [Invalid=36 /-] [Mean=1.023 /-] [StdDev=0.151 /-]
<b>Pre-question</b>	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018?
<b>Literal question</b>	Local/regional within Slovenia

Value	Label	Cases	Percentage
1	Yes	252	97.7%
2	No	6	2.3%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	36	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q01\_2: 1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [National (other regions of Slovenia)]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=211 /-] [Invalid=83 /-] [Mean=1.227 /-] [StdDev=0.42 /-]
<b>Pre-question</b>	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018?
<b>Literal question</b>	National (other regions of Slovenia)

Value	Label	Cases	Percentage
1	Yes	163	77.3%
2	No	48	22.7%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	83	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q01\_3: 1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Other countries in the European Union or associated countries]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=192 /-] [Invalid=102 /-] [Mean=1.474 /-] [StdDev=0.501 /-]
<b>Pre-question</b>	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018?
<b>Literal question</b>	Other countries in the European Union or associated countries (Albania, Bosnia and Hezegovina, FYROM, Kosovo, Liechtenstein, Montenegro, Norway, Serbia, Switzerland, Turkey)

Value	Label	Cases	Percentage
1	Yes	101	52.6%
2	No	91	47.4%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	102	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q01\_4: 1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018? [Other countries outside Europe]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.71 /-] [StdDev=0.455 /-]
<b>Pre-question</b>	1. In which geographic markets did your enterprise sell goods and/or services in the three years 2016 to 2018?
<b>Literal question</b>	Other countries outside Europe

Value	Label	Cases	Percentage
1	Yes	45	29.0%
2	No	110	71.0%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	139	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q02\_1: 2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Improving your existing products]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=282 /-] [Invalid=12 /-] [Mean=1.809 /-] [StdDev=0.931 /-]
<b>Pre-question</b>	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? Focus on:
<b>Literal question</b>	Improving your existing products

Value	Label	Cases	Percentage
1	High	132	46.8%
2	Medium	94	33.3%
3	Low	34	12.1%
4	Not important	22	7.8%
98	Skipped question	0	
99	No answer	12	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q02\_2: 2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Introducing entirely new products]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=268 /-] [Invalid=26 /-] [Mean=2.362 /-] [StdDev=0.987 /-]
<b>Pre-question</b>	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? Focus on:
<b>Literal question</b>	Introducing entirely new products

Value	Label	Cases	Percentage
1	High	59	22.0%
2	Medium	93	34.7%
3	Low	76	28.4%
4	Not important	40	14.9%
98	Skipped question	0	
99	No answer	26	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q02\_3: 2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Reaching new customer groups]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=274 /-] [Invalid=20 /-] [Mean=2.117 /-] [StdDev=0.91 /-]
<b>Pre-question</b>	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? Focus on:
<b>Literal question</b>	Reaching new customer groups

Value	Label	Cases	Percentage
1	High	72	26.3%
2	Medium	125	45.6%
3	Low	50	18.2%
4	Not important	27	9.9%
98	Skipped question	0	
99	No answer	20	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q02\_4: 2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Customer specific solutions]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=276 /-] [Invalid=18 /-] [Mean=1.96 /-] [StdDev=0.962 /-]
<b>Pre-question</b>	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? Focus on:
<b>Literal question</b>	Customer specific solutions

Value	Label	Cases	Percentage
1	High	107	38.8%
2	Medium	99	35.9%
3	Low	44	15.9%
4	Not important	26	9.4%
98	Skipped question	0	
99	No answer	18	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*



## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q02\_5: 2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? [Low-price]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=268 /-] [Invalid=26 /-] [Mean=2.41 /-] [StdDev=0.942 /-]
<b>Pre-question</b>	2. During the three years 2016 to 2018, how important were each of the following strategies to your enterprise? Focus on:
<b>Literal question</b>	Low-price

Value	Label	Cases	Percentage
1	High	45	16.8%
2	Medium	109	40.7%
3	Low	73	27.2%
4	Not important	41	15.3%
98	Skipped question	0	
99	No answer	26	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q03\_A: 3a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved goods?

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=282 /-] [Invalid=12 /-] [Mean=1.592 /-] [StdDev=0.492 /-]
<b>Literal question</b>	3a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved goods?

Value	Label	Cases	Percentage
1	Yes	115	40.8%
2	No	167	59.2%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	12	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q03\_B1: 3b. Who developed these goods? [Your enterprise by itself]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=106 /-] [Invalid=188 /-] [Mean=1.189 /-] [StdDev=0.393 /-]
<b>Pre-question</b>	3b. Who developed these goods? (tick all that apply)
<b>Literal question</b>	Your enterprise by itself

Value	Label	Cases	Percentage
1	Selected	86	81.1%
2	Not selected	20	18.9%
98	Skipped question	167	
99	No answer	21	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q03\_B2: 3b. Who developed these goods? [Your enterprise together with other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=62 /-] [Invalid=232 /-] [Mean=1.468 /-] [StdDev=0.503 /-]
<b>Pre-question</b>	3b. Who developed these goods? (tick all that apply)
<b>Literal question</b>	Your enterprise together with other enterprises or organisations

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q03\_B2: 3b. Who developed these goods? [Your enterprise together with other enterprises or organisations]

Value	Label	Cases	Percentage
1	Selected	33	53.2%
2	Not selected	29	46.8%
98	Skipped question	167	
99	No answer	65	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q03\_B3: 3b. Who developed these goods? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=53 /-] [Invalid=241 /-] [Mean=1.679 /-] [StdDev=0.471 /-]
<b>Pre-question</b>	3b. Who developed these goods? (tick all that apply)
<b>Literal question</b>	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations

Value	Label	Cases	Percentage
1	Selected	17	32.1%
2	Not selected	36	67.9%
98	Skipped question	167	
99	No answer	74	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q03\_B4: 3b. Who developed these goods? [Other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=52 /-] [Invalid=242 /-] [Mean=1.712 /-] [StdDev=0.457 /-]
<b>Pre-question</b>	3b. Who developed these goods? (tick all that apply)
<b>Literal question</b>	Other enterprises or organisations

Value	Label	Cases	Percentage
1	Selected	15	28.8%
2	Not selected	37	71.2%
98	Skipped question	167	
99	No answer	75	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q04\_A: 4a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved services?

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=280 /-] [Invalid=14 /-] [Mean=1.65 /-] [StdDev=0.478 /-]
<b>Literal question</b>	During the three years 2016 to 2018, did your enterprise introduce new or significantly improved services?

Value	Label	Cases	Percentage
1	Yes	98	35.0%
2	No	182	65.0%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	14	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q04\_B1: 4b. Who developed these services? [Your enterprise by itself]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=88 /-] [Invalid=206 /-] [Mean=1.261 /-] [StdDev=0.442 /-]
<b>Pre-question</b>	4b. Who developed these services? (tick all that apply)
<b>Literal question</b>	Your enterprise by itself
<b>Post-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a.

Value	Label	Cases	Percentage
1	Selected	65	73.9%
2	Not selected	23	26.1%
98	Skipped question	182	
99	No answer	24	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q04\_B2: 4b. Who developed these services? [Your enterprise together with other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=56 /-] [Invalid=238 /-] [Mean=1.429 /-] [StdDev=0.499 /-]
<b>Pre-question</b>	4b. Who developed these services? (tick all that apply)
<b>Literal question</b>	Your enterprise together with other enterprises or organisations
<b>Post-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a.

Value	Label	Cases	Percentage
1	Selected	32	57.1%
2	Not selected	24	42.9%
98	Skipped question	182	
99	No answer	56	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q04\_B3: 4b. Who developed these services? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=47 /-] [Invalid=247 /-] [Mean=1.766 /-] [StdDev=0.428 /-]
<b>Pre-question</b>	4b. Who developed these services? (tick all that apply)
<b>Literal question</b>	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations
<b>Post-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a.

Value	Label	Cases	Percentage
1	Selected	11	23.4%
2	Not selected	36	76.6%
98	Skipped question	182	
99	No answer	65	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q04\_B4: 4b. Who developed these services? [Other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=50 /-] [Invalid=244 /-] [Mean=1.7 /-] [StdDev=0.463 /-]
<b>Pre-question</b>	4b. Who developed these services? (tick all that apply)

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q04\_B4: 4b. Who developed these services? [Other enterprises or organisations]

<b>Literal question</b>	Other enterprises or organisations
<b>Post-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a.

Value	Label	Cases	Percentage
1	Selected	15	30.0%
2	Not selected	35	70.0%
98	Skipped question	182	
99	No answer	62	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q05\_A1: 5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018: [New to your market?]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=105 /-] [Invalid=189 /-] [Mean=1.457 /-] [StdDev=0.501 /-]
<b>Pre-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a. 5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018:
<b>Literal question</b>	New to your market? (it may have already been available in other markets)

Value	Label	Cases	Percentage
1	Yes	57	54.3%
2	No	48	45.7%
96	Question not asked	0	
98	Skipped question	137	
99	No answer	52	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q05\_A2: 5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018: [Only new to your enterprise?]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=104 /-] [Invalid=190 /-] [Mean=1.337 /-] [StdDev=0.475 /-]
<b>Pre-question</b>	If you introduced new products/processes ("Yes" in question 3a or 4a), continue with question 5a. If not, go to question 6a. 5a. Were any of your product innovations (goods or services) during the three years 2016 to 2018:
<b>Literal question</b>	Only new to your enterprise? (available from your competitors in your market)

Value	Label	Cases	Percentage
1	Yes	69	66.3%
2	No	35	33.7%
96	Question not asked	0	
98	Skipped question	137	
99	No answer	53	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q05\_B1: 5b. If yes, please give the percent of your total turnover in 2016 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018. [only new to your market]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=26 /-] [Invalid=268 /-] [Mean=4.077 /-] [StdDev=1.262 /-]
<b>Pre-question</b>	5b. If yes, please give the percent of your total turnover in 2018 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018.

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

**# Q05\_B1: 5b. If yes, please give the percent of your total turnover in 2016 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018. [only new to your market]**

<b>Literal question</b>	% of turnover for products only new to your market		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	0% to less than 1%	0	
2	1% to less than 5%	2	7.7%
3	5% to less than 10%	7	26.9%
4	10% to less than 25%	9	34.6%
5	25% to less than 50%	4	15.4%
6	50% to less than 75%	3	11.5%
7	75% or more	1	3.8%
97	Unclear answer	16	
98	Skipped question	185	
99	No answer	67	

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**# Q05\_B2: 5b. If yes, please give the percent of your total turnover in 2016 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018. [only new to your enterprise]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=33 /-] [Invalid=261 /-] [Mean=4.121 /-] [StdDev=0.927 /-]
<b>Pre-question</b>	5b. If yes, please give the percent of your total turnover in 2018 from new or significantly improved products (goods or services) introduced during the three years 2016 to 2018.
<b>Literal question</b>	% of turnover for products only new to your enterprise

<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	0% to less than 1%	0	
2	1% to less than 5%	2	6.1%
3	5% to less than 10%	3	9.1%
4	10% to less than 25%	20	60.6%
5	25% to less than 50%	5	15.2%
6	50% to less than 75%	3	9.1%
7	75% or more	0	
97	Unclear answer	17	
98	Skipped question	172	
99	No answer	72	

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**# Q06\_A1: 6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Production process]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=271 /-] [Invalid=23 /-] [Mean=1.605 /-] [StdDev=0.49 /-]		
<b>Pre-question</b>	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved:		
<b>Literal question</b>	Production process (methods of manufacturing for producing goods or services)		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	107	39.5%
2	No	164	60.5%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q06\_A1: 6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Production process]

Value	Label	Cases	Percentage
96	Question not asked	0	
98	Skipped question	0	
99	No answer	23	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

# Q06\_A2: 6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Distribution methods]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=260 /-] [Invalid=34 /-] [Mean=1.773 /-] [StdDev=0.42 /-]
<b>Pre-question</b>	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved:
<b>Literal question</b>	Distribution methods (logistics, delivery, or other) for your inputs, goods or services

Value	Label	Cases	Percentage
1	Yes	59	22.7%
2	No	201	77.3%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	34	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

# Q06\_A3: 6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved: [Supporting activities for your processes]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=263 /-] [Invalid=31 /-] [Mean=1.722 /-] [StdDev=0.449 /-]
<b>Pre-question</b>	6a. During the three years 2016 to 2018, did your enterprise introduce new or significantly improved:
<b>Literal question</b>	Supporting activities for your processes, such as maintenance systems of operations for purchasing, accounting or computing

Value	Label	Cases	Percentage
1	Yes	73	27.8%
2	No	190	72.2%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	31	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

# Q06\_B1: 6b. Who developed these processes? [Your enterprise by itself]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=126 /-] [Invalid=168 /-] [Mean=1.286 /-] [StdDev=0.454 /-]
<b>Pre-question</b>	6b. Who developed these processes? (tick all that apply)
<b>Literal question</b>	Your enterprise by itself

Value	Label	Cases	Percentage
1	Selected	90	71.4%
2	Not selected	36	28.6%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q06\_B1: 6b. Who developed these processes? [Your enterprise by itself]

Value	Label	Cases	Percentage
98	Skipped question	0	
99	No answer	168	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q06\_B2: 6b. Who developed these processes? [Your enterprise together with other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=86 /-] [Invalid=208 /-] [Mean=1.465 /-] [StdDev=0.502 /-]
<b>Pre-question</b>	6b. Who developed these processes? (tick all that apply)
<b>Literal question</b>	Your enterprise together with other enterprises/organisations

Value	Label	Cases	Percentage
1	Selected	46	53.5%
2	Not selected	40	46.5%
98	Skipped question	0	
99	No answer	208	

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### # Q06\_B3: 6b. Who developed these processes? [Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=64 /-] [Invalid=230 /-] [Mean=1.813 /-] [StdDev=0.393 /-]
<b>Pre-question</b>	6b. Who developed these processes? (tick all that apply)
<b>Literal question</b>	Your enterprise by adapting or modifying processes originally developed by other enterprises or organisations

Value	Label	Cases	Percentage
1	Selected	12	18.8%
2	Not selected	52	81.2%
98	Skipped question	0	
99	No answer	230	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q06\_B4: 6b. Who developed these processes? [Other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=73 /-] [Invalid=221 /-] [Mean=1.644 /-] [StdDev=0.482 /-]
<b>Pre-question</b>	6b. Who developed these processes? (tick all that apply)
<b>Literal question</b>	Other enterprises or organisations

Value	Label	Cases	Percentage
1	Selected	26	35.6%
2	Not selected	47	64.4%
98	Skipped question	0	
99	No answer	221	

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## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q07\_1: 7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were: [Abandoned or suspended]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=249 /-] [Invalid=45 /-] [Mean=1.884 /-] [StdDev=0.321 /-]
<b>Pre-question</b>	7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were
<b>Literal question</b>	Abandoned or suspended before completion?
<b>Post-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a.

Value	Label	Cases	Percentage
1	Yes	29	11.6%
2	No	220	88.4%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	45	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q07\_2: 7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were: [Still ongoing]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=237 /-] [Invalid=57 /-] [Mean=1.827 /-] [StdDev=0.379 /-]
<b>Pre-question</b>	7. During the three years 2016 to 2018, did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were
<b>Literal question</b>	Still ongoing at the end of 2018?
<b>Post-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a.

Value	Label	Cases	Percentage
1	Yes	41	17.3%
2	No	196	82.7%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	57	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A1: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [In-house research and development]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.619 /-] [StdDev=0.487 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	In-house research and development

Value	Label	Cases	Percentage
1	Selected	59	38.1%
2	Not selected	96	61.9%
98	Skipped question	84	
99	No answer	55	



## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q08\_A1: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [In-house research and development]

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q08\_A2: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [External research and development]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.806 /-] [StdDev=0.396 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	External research and development

Value	Label	Cases	Percentage
1	Selected	30	19.4%
2	Not selected	125	80.6%
98	Skipped question	84	
99	No answer	55	

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### # Q08\_A3: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Acquisition of machinery, equipment, software & buildings]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.413 /-] [StdDev=0.494 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Acquisition of machinery, equipment, software & buildings

Value	Label	Cases	Percentage
1	Selected	91	58.7%
2	Not selected	64	41.3%
98	Skipped question	84	
99	No answer	55	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Q08\_A4: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Acquisition of existing knowledge from other enterprises or organisations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.781 /-] [StdDev=0.415 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Acquisition of existing knowledge from other enterprises or organisations

Value	Label	Cases	Percentage
1	Selected	34	21.9%
2	Not selected	121	78.1%
98	Skipped question	84	
99	No answer	55	

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q08\_A4: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Acquisition of existing knowledge from other enterprises or organisations]

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A5: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Training for innovative activities]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.845 /-] [StdDev=0.363 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Training for innovative activities

Value	Label	Cases	Percentage
1	Selected	24	15.5%
2	Not selected	131	84.5%
98	Skipped question	84	
99	No answer	55	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A6: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Market introduction of innovations]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.897 /-] [StdDev=0.305 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Market introduction of innovations

Value	Label	Cases	Percentage
1	Selected	16	10.3%
2	Not selected	139	89.7%
98	Skipped question	84	
99	No answer	55	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A7: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Design]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.806 /-] [StdDev=0.396 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Design

Value	Label	Cases	Percentage
1	Selected	30	19.4%
2	Not selected	125	80.6%
98	Skipped question	84	
99	No answer	55	

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

# Q08\_A7: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Design]

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A8\_n: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [None]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=* /98/99]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=1.813 /-] [StdDev=0.391 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	None
<b>Post-question</b>	Go to questionn 11.

Value	Label	Cases	Percentage
1	Selected	29	18.7%
2	Not selected	126	81.3%
98	Skipped question	84	
99	No answer	55	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_A8\_o: 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? [Other]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 2-12] [Missing=* /98/99]
<b>Statistics [NW/ W]</b>	[Valid=155 /-] [Invalid=139 /-] [Mean=2.174 /-] [StdDev=1.249 /-]
<b>Pre-question</b>	If you responded "No" to all options in questions 3a, 4a, 6a and 7, go to question 11. Otherwise, continue with 8a. 8a. During the three years 2016 to 2018, did your enterprise engage in the following innovation activities? Please tick the boxes before corresponding categories.
<b>Literal question</b>	Other

Value	Label	Cases	Percentage
2	Not selected	152	98.1%
10	Selected but no answer	1	0.6%
11	Education, consultations	1	0.6%
12	Renovation of old machines	1	0.6%
98	Skipped question	84	
99	No answer	55	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

# Q08\_B1: 8b. How much did your spend on each of them? [In-house research and development]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=44 /-] [Invalid=250 /-] [Mean=2.659 /-] [StdDev=1.765 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	In-house research and development

Value	Label	Cases	Percentage
0	0 Euros	2	4.5%
1	Above 0 to less than 1,000 Euros	8	18.2%
2	1,000 to less than 5,000 Euros	13	29.5%

## File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]

### # Q08\_B1: 8b. How much did your spend on each of them? [In-house research and development]

Value	Label	Cases	Percentage
3	5,000 to less than 25,000 Euros	13	29.5%
4	25,000 to less than 100,000 Euros	3	6.8%
5	100,000 to less than 250,000 Euros	3	6.8%
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	1	2.3%
9	Over 5 million Euros	1	2.3%
97	Unclear answer	1	
98	Skipped question	110	
99	No answer	139	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q08\_B2: 8b. How much did your spend on each of them? [External research and development]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=22 /-] [Invalid=272 /-] [Mean=2.545 /-] [StdDev=1.87 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	External research and development

Value	Label	Cases	Percentage
0	0 Euros	2	9.1%
1	Above 0 to less than 1,000 Euros	5	22.7%
2	1,000 to less than 5,000 Euros	5	22.7%
3	5,000 to less than 25,000 Euros	5	22.7%
4	25,000 to less than 100,000 Euros	2	9.1%
5	100,000 to less than 250,000 Euros	2	9.1%
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	1	4.5%
9	Over 5 million Euros	0	
97	Unclear answer	1	
98	Skipped question	125	
99	No answer	146	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Q08\_B3: 8b. How much did your spend on each of them? [Acquisition of machinery, equipment, software & buildings]

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=73 /-] [Invalid=221 /-] [Mean=3.425 /-] [StdDev=1.985 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	Acquisition of machinery, equipment, software & buildings

Value	Label	Cases	Percentage
0	0 Euros	0	
1	Above 0 to less than 1,000 Euros	17	23.3%

**File : Innovation activities of Slovenian companies in the forest-based value chain, 2019: Data [Data file]**

# Q08\_B3: 8b. How much did your spend on each of them? [Acquisition of machinery, equipment, software & buildings]

Value	Label	Cases	Percentage
2	1,000 to less than 5,000 Euros	4	5.5%
3	5,000 to less than 25,000 Euros	22	30.1%
4	25,000 to less than 100,000 Euros	12	16.4%
5	100,000 to less than 250,000 Euros	9	12.3%
6	250,000 to less than 500,000 Euros	3	4.1%
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	6	8.2%
9	Over 5 million Euros	0	
97	Unclear answer	2	
98	Skipped question	99	
99	No answer	120	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q08\_B4: 8b. How much did your spend on each of them? [Acquisition of existing knowledge from other enterprises or organisations]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=19 /-] [Invalid=275 /-] [Mean=1.895 /-] [StdDev=1.1 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	Acquisition of existing knowledge from other enterprises or organisations

Value	Label	Cases	Percentage
0	0 Euros	3	15.8%
1	Above 0 to less than 1,000 Euros	3	15.8%
2	1,000 to less than 5,000 Euros	6	31.6%
3	5,000 to less than 25,000 Euros	7	36.8%
4	25,000 to less than 100,000 Euros	0	
5	100,000 to less than 250,000 Euros	0	
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	0	
9	Over 5 million Euros	0	
97	Unclear answer	1	
98	Skipped question	122	
99	No answer	152	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q08\_B5: 8b. How much did your spend on each of them? [Training for innovative activities]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=17 /-] [Invalid=277 /-] [Mean=1.706 /-] [StdDev=0.849 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	Training for innovative activities

Value	Label	Cases	Percentage
0	0 Euros	1	5.9%
1	Above 0 to less than 1,000 Euros	6	35.3%
2	1,000 to less than 5,000 Euros	7	41.2%
3	5,000 to less than 25,000 Euros	3	17.6%
4	25,000 to less than 100,000 Euros	0	
5	100,000 to less than 250,000 Euros	0	
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	0	
9	Over 5 million Euros	0	
97	Unclear answer	1	
98	Skipped question	126	
99	No answer	150	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q08\_B6: 8b. How much did your spend on each of them? [Market introduction of innovations]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=10 /-] [Invalid=284 /-] [Mean=1.5 /-] [StdDev=0.972 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)

<b># Q08_B6: 8b. How much did your spend on each of them? [Market introduction of innovations]</b>			
<b>Literal question</b>		Market introduction of innovations	
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
0	0 Euros	1	10.0%
1	Above 0 to less than 1,000 Euros	5	50.0%
2	1,000 to less than 5,000 Euros	2	20.0%
3	5,000 to less than 25,000 Euros	2	20.0%
4	25,000 to less than 100,000 Euros	0	
5	100,000 to less than 250,000 Euros	0	
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	0	
9	Over 5 million Euros	0	
97	Unclear answer	1	
98	Skipped question	130	
99	No answer	153	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q08_B7: 8b. How much did your spend on each of them? [Design]</b>			
<b>Information</b>		[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]	
<b>Statistics [NW/ W]</b>		[Valid=22 /-] [Invalid=272 /-] [Mean=1.818 /-] [StdDev=1.097 /-]	
<b>Pre-question</b>		8b. How much did your spend on each of them? Amount in € (at least an estimate)	
<b>Literal question</b>		Design	
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
0	0 Euros	3	13.6%
1	Above 0 to less than 1,000 Euros	5	22.7%
2	1,000 to less than 5,000 Euros	8	36.4%
3	5,000 to less than 25,000 Euros	5	22.7%
4	25,000 to less than 100,000 Euros	1	4.5%
5	100,000 to less than 250,000 Euros	0	
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	0	
9	Over 5 million Euros	0	
97	Unclear answer	2	
98	Skipped question	118	
99	No answer	152	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q08_B8: 8b. How much did your spend on each of them? [Other]</b>			
<b>Information</b>		[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]	
<b>Statistics [NW/ W]</b>		[Valid=3 /-] [Invalid=291 /-] [Mean=1.667 /-] [StdDev=0.577 /-]	
<b>Pre-question</b>		8b. How much did your spend on each of them? Amount in € (at least an estimate)	
<b>Literal question</b>		Other	
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
0	0 Euros	0	
1	Above 0 to less than 1,000 Euros	1	33.3%

**# Q08\_B8: 8b. How much did your spend on each of them? [Other]**

Value	Label	Cases	Percentage
2	1,000 to less than 5,000 Euros	2	66.7%
3	5,000 to less than 25,000 Euros	0	
4	25,000 to less than 100,000 Euros	0	
5	100,000 to less than 250,000 Euros	0	
6	250,000 to less than 500,000 Euros	0	
7	500,000 to less than 1 million Euros	0	
8	1 million to less than 5 million Euros	0	
9	Over 5 million Euros	0	
97	Unclear answer	1	
98	Skipped question	136	
99	No answer	154	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q08\_C: 8c. If your enterprise performed in-house research and development during 2016 to 208, did it do so:**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=74 /-] [Invalid=220 /-] [Mean=1.73 /-] [StdDev=0.447 /-]
<b>Pre-question</b>	8b. How much did your spend on each of them? Amount in € (at least an estimate)
<b>Literal question</b>	8c. If your enterprise performed in-house research and development during 2016 to 208, did it do so:

Value	Label	Cases	Percentage
1	Continuously	20	27.0%
2	Ocasionally	54	73.0%
98	Skipped question	110	
99	No answer	110	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_01: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Your enterprise (group)]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=122 /-] [Invalid=172 /-] [Mean=1.746 /-] [StdDev=1.103 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Your enterprise (group)

Value	Label	Cases	Percentage
1	High	66	54.1%
2	Medium	39	32.0%
3	Low	8	6.6%
5	Not used	9	7.4%
98	Skipped question	84	
99	No answer	88	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_02: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Suppliers of equipment, materials, components, or software ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=127 /-] [Invalid=167 /-] [Mean=1.882 /-] [StdDev=1.044 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?



**# Q09\_02: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Suppliers of equipment, materials, components, or software ]**

<b>Literal question</b>	Suppliers of equipment, materials, components, or software		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	53	41.7%
2	Medium	52	40.9%
3	Low	14	11.0%
5	Not used	8	6.3%
98	Skipped question	84	
99	No answer	83	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_03: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Clients or customers from the private sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=124 /-] [Invalid=170 /-] [Mean=2.21 /-] [StdDev=1.264 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Clients or customers from the private sector

<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	40	32.3%
2	Medium	50	40.3%
3	Low	18	14.5%
5	Not used	16	12.9%
98	Skipped question	84	
99	No answer	86	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_04: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Clients or customers from the public sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=112 /-] [Invalid=182 /-] [Mean=3.304 /-] [StdDev=1.451 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Clients or customers from the public sector

<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	13	11.6%
2	Medium	24	21.4%
3	Low	33	29.5%
5	Not used	42	37.5%
98	Skipped question	84	
99	No answer	98	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_05: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Competitors or other enterprises in your sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=120 /-] [Invalid=174 /-] [Mean=2.558 /-] [StdDev=1.201 /-]

**# Q09\_05: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Competitors or other enterprises in your sector]**

**Pre-question** 9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?

**Literal question** Competitors or other enterprises in your sector

Value	Label	Cases	Percentage
1	High	17	14.2%
2	Medium	55	45.8%
3	Low	30	25.0%
5	Not used	18	15.0%
98	Skipped question	84	
99	No answer	90	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_06: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Consultants or commercial labs]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=\*]

**Statistics [NW/ W]** [Valid=113 /-] [Invalid=181 /-] [Mean=3.779 /-] [StdDev=1.374 /-]

**Pre-question** 9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?

**Literal question** Consultants or commercial labs

Value	Label	Cases	Percentage
1	High	7	6.2%
2	Medium	16	14.2%
3	Low	31	27.4%
5	Not used	59	52.2%
98	Skipped question	84	
99	No answer	97	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_07: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Universities or other higher education institutes]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=\*]

**Statistics [NW/ W]** [Valid=113 /-] [Invalid=181 /-] [Mean=3.965 /-] [StdDev=1.302 /-]

**Pre-question** 9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?

**Literal question** Universities or other higher education institutes

Value	Label	Cases	Percentage
1	High	4	3.5%
2	Medium	15	13.3%
3	Low	28	24.8%
5	Not used	66	58.4%
98	Skipped question	84	
99	No answer	97	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_08: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Government or public research institutes]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=\*]

**# Q09\_08: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Government or public research institutes]**

<b>Statistics [NW/ W]</b>	[Valid=112 /-] [Invalid=182 /-] [Mean=4.098 /-] [StdDev=1.208 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Government, public or private research institutes

Value	Label	Cases	Percentage
1	High	3	2.7%
2	Medium	9	8.0%
3	Low	31	27.7%
5	Not used	69	61.6%
98	Skipped question	84	
99	No answer	98	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_09: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Conferences, trade fairs, exhibitions]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=117 /-] [Invalid=177 /-] [Mean=2.932 /-] [StdDev=1.394 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Conferences, trade fairs, exhibitions

Value	Label	Cases	Percentage
1	High	16	13.7%
2	Medium	38	32.5%
3	Low	32	27.4%
5	Not used	31	26.5%
98	Skipped question	84	
99	No answer	93	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_10: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Scientific/technical journals or trade publications]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=115 /-] [Invalid=179 /-] [Mean=3.313 /-] [StdDev=1.372 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Scientific/technical journals or trade publications

Value	Label	Cases	Percentage
1	High	8	7.0%
2	Medium	30	26.1%
3	Low	36	31.3%
5	Not used	41	35.7%
98	Skipped question	84	
99	No answer	95	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q09\_11: 9. During the three years 2016 to 2018, how important to your enterpr. innovation activities were each of the following informaton sources? [Professional or industry associations]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=116 /-] [Invalid=178 /-] [Mean=3.328 /-] [StdDev=1.375 /-]
<b>Pre-question</b>	9. During the three years 2016 to 2018, how important to your enterprise's innovation activities were each of the following informaton sources?
<b>Literal question</b>	Professional or industry associations

Value	Label	Cases	Percentage
1	High	5	4.3%
2	Medium	38	32.8%
3	Low	30	25.9%
5	Not used	43	37.1%
98	Skipped question	84	
99	No answer	94	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A1: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [A. Other enterprises within your enterprise group]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=119 /-] [Invalid=175 /-] [Mean=1.546 /-] [StdDev=0.5 /-]
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?
<b>Literal question</b>	Other enterprises within your enterprise group

Value	Label	Cases	Percentage
1	Yes	54	45.4%
2	No	65	54.6%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	90	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A2: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [B. Suppliers of equipment, materials, components, or software ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=126 /-] [Invalid=168 /-] [Mean=1.175 /-] [StdDev=0.381 /-]
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?
<b>Literal question</b>	Suppliers of equipment, materials, components, or software

Value	Label	Cases	Percentage
1	Yes	104	82.5%
2	No	22	17.5%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	84	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A3: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [C. Clients or customers from the private sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=122 /-] [Invalid=172 /-] [Mean=1.459 /-] [StdDev=0.5 /-]
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?
<b>Literal question</b>	Clients or customers from the private sector

Value	Label	Cases	Percentage
1	Yes	66	54.1%
2	No	56	45.9%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	88	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A4: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [D. Clients or customers from the public sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=114 /-] [Invalid=180 /-] [Mean=1.781 /-] [StdDev=0.416 /-]
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?
<b>Literal question</b>	Clients or customers from the public sector

Value	Label	Cases	Percentage
1	Yes	25	21.9%
2	No	89	78.1%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	96	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A5: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [E. Competitors or other enterprises in your sector]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=117 /-] [Invalid=177 /-] [Mean=1.735 /-] [StdDev=0.443 /-]
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?
<b>Literal question</b>	Competitors or other enterprises in your sector

Value	Label	Cases	Percentage
1	Yes	31	26.5%
2	No	86	73.5%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	93	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q10\_A6: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [F. Consultants or commercial labs]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
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<b># Q10_A6: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [F. Consultants or commercial labs]</b>			
<b>Statistics [NW/ W]</b>	[Valid=117 /-] [Invalid=177 /-] [Mean=1.812 /-] [StdDev=0.392 /-]		
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?		
<b>Literal question</b>	Consultants or commercial labs		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	22	18.8%
2	No	95	81.2%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	93	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q10_A7: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [G. Universities or other higher education institutes]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=116 /-] [Invalid=178 /-] [Mean=1.828 /-] [StdDev=0.379 /-]		
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?		
<b>Literal question</b>	Universities or other higher education institutes		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	20	17.2%
2	No	96	82.8%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	94	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q10_A8: 10a. During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations? [H. Government or public research institutes]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=115 /-] [Invalid=179 /-] [Mean=1.861 /-] [StdDev=0.348 /-]		
<b>Pre-question</b>	During the three years 2016 to 2018, did your enterprise co-operate on any of your innovation activities with other enterprises or organisations?		
<b>Literal question</b>	Government, public or private research institutes		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	16	13.9%
2	No	99	86.1%
96	Question not asked	0	
98	Skipped question	84	
99	No answer	95	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q10_B: 10b. Which type of innovation partner in question 10a has the most impact? (Please select one letter from A to I.)</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=90 /-] [Invalid=204 /-] [Mean=2.578 /-] [StdDev=1.453 /-]		

**# Q10\_B: 10b. Which type of innovation partner in question 10a has the most impact? (Please select one letter from A to I.)**

<b>Literal question</b>	10b. Which type of innovation partner in question 10a has the most impact? (Please select one letter from A to I.)		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	A. Other enterprises within your enterprise group	15	16.7%
2	B. Suppliers of equipment, materials, components, or softwar	38	42.2%
3	C. Clients or customers from the private sector	26	28.9%
4	D. Clients or customers from the public sector	3	3.3%
5	E. Competitors or other enterprises in your sector	3	3.3%
6	F. Consultants or commercial labs	1	1.1%
7	G. Universities or other higher education institutes	2	2.2%
8	H. Government or public research institutes	2	2.2%
98	Skipped question	99	
99	No answer	105	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_1: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Business practices for organising procedures]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=258 /-] [Invalid=36 /-] [Mean=1.736 /-] [StdDev=0.441 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Business practices for organising procedures
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with quesiton 12. Otherwise go to question 15a.

<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	68	26.4%
2	No	190	73.6%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	36	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_2: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of organising work responsibilites and decision making]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=254 /-] [Invalid=40 /-] [Mean=1.776 /-] [StdDev=0.418 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Methods of organising work responsibilites and decision making (i.e. first time use of a new system of employee responsibilities, etc.)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with quesiton 12. Otherwise go to question 15a.

<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	57	22.4%
2	No	197	77.6%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	40	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_3: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of organising external relations with other enterprises or public organisations]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=249 /-] [Invalid=45 /-] [Mean=1.847 /-] [StdDev=0.36 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Methods of organising external relations with other enterprises or public organisations (i.e. first time use of alliances, outsourcing, etc.)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.

Value	Label	Cases	Percentage
1	Yes	38	15.3%
2	No	211	84.7%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	45	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_4: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Aesthetic design or packaging of a good or service]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=254 /-] [Invalid=40 /-] [Mean=1.823 /-] [StdDev=0.383 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Aesthetic design or packaging of a good or service (exclude changes that alter the product's functional or user characteristics)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.

Value	Label	Cases	Percentage
1	Yes	45	17.7%
2	No	209	82.3%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	40	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_5: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Media or techniques for product promotion]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=252 /-] [Invalid=42 /-] [Mean=1.845 /-] [StdDev=0.362 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Media or techniques for product promotion (i.e. first time use of a new advertising media, a new brand image, introduction of loyalty cards, etc.)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.

Value	Label	Cases	Percentage
1	Yes	39	15.5%
2	No	213	84.5%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	42	



**# Q11\_5: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Media or techniques for product promotion]**

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_6: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods for product placement or sales channels]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=251 /-] [Invalid=43 /-] [Mean=1.916 /-] [StdDev=0.277 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Methods for product placement or sales channels (i.e. first time use of franchising or distribution licenses, direct selling, etc.)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.

Value	Label	Cases	Percentage
1	Yes	21	8.4%
2	No	230	91.6%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	43	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q11\_7: 11. During the three years 2016 to 2018, did your enterprise introduce new: [Methods of pricing goods or services]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=253 /-] [Invalid=41 /-] [Mean=1.802 /-] [StdDev=0.399 /-]
<b>Pre-question</b>	11. During the three years 2016 to 2018, did your enterprise introduce new:
<b>Literal question</b>	Methods of pricing goods or services (i.e. first time use of variable pricing by demand, etc.)
<b>Post-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.

Value	Label	Cases	Percentage
1	Yes	50	19.8%
2	No	203	80.2%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	41	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q12: 12. Which of the following best describes why your enterprise had no innovation activities?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=64 /-] [Invalid=230 /-] [Mean=1.188 /-] [StdDev=0.393 /-]
<b>Pre-question</b>	If your enterprise did not introduce any innovations (you responded "No" to all options in questions 3a, 4a, 6a, 7 and 11), continue with question 12. Otherwise go to question 15a.
<b>Literal question</b>	12. Which of the following best describes why your enterprise had no innovation activities?
<b>Post-question</b>	If you responded with 1 go to question 13, if you responded with 2 go to question 14.

Value	Label	Cases	Percentage
1	No compelling reason to innovate	52	81.2%
2	Factors preventing innovation were too large	12	18.8%
98	Skipped question	195	
99	No answer	35	

<b># Q12: 12. Which of the following best describes why your enterprise had no innovation activities?</b>			
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q13_1: 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [Low demand for innovations in your market]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=59 /-] [Invalid=235 /-] [Mean=2.847 /-] [StdDev=1.064 /-]		
<b>Pre-question</b>	Those who responded with answer 1 in question 12. 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018?		
<b>Literal question</b>	Low demand for innovations in your market		
<b>Post-question</b>	Go to question 18		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	7	11.9%
2	Medium	17	28.8%
3	Low	13	22.0%
4	Not important	22	37.3%
98	Skipped question	207	
99	No answer	28	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q13_2: 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [No need to innovate due to previous innovations]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=55 /-] [Invalid=239 /-] [Mean=3.273 /-] [StdDev=0.912 /-]		
<b>Pre-question</b>	Those who responded with answer 1 in question 12. 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018?		
<b>Literal question</b>	No need to innovate due to previous innovations		
<b>Post-question</b>	Go to question 18		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	3	5.5%
2	Medium	8	14.5%
3	Low	15	27.3%
4	Not important	29	52.7%
98	Skipped question	207	
99	No answer	32	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q13_3: 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [No need to innovate due to very little competition in your enterprise's market]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=55 /-] [Invalid=239 /-] [Mean=3.273 /-] [StdDev=0.891 /-]		
<b>Pre-question</b>	Those who responded with answer 1 in question 12. 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018?		
<b>Literal question</b>	No need to innovate due to very little competition in your enterprise's market		
<b>Post-question</b>	Go to question 18		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	High	2	3.6%
2	Medium	10	18.2%

**# Q13\_3: 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [No need to innovate due to very little competition in your enterprise's market]**

Value	Label	Cases	Percentage
3	Low	14	25.5%
4	Not important	29	52.7%
98	Skipped question	207	
99	No answer	32	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q13\_4: 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018? [Lack of good ideas for innovations]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=55 /-] [Invalid=239 /-] [Mean=3.236 /-] [StdDev=0.981 /-]
<b>Pre-question</b>	Those who responded with answer 1 in question 12. 13. How important were the following reasons for your enterprise not to conduct innovation activities during 2016 to 2018?
<b>Literal question</b>	Lack of good ideas for innovations
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	5	9.1%
2	Medium	6	10.9%
3	Low	15	27.3%
4	Not important	29	52.7%
98	Skipped question	207	
99	No answer	32	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_1: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of internal finance for innovation]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=23 /-] [Invalid=271 /-] [Mean=2.217 /-] [StdDev=1.242 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Lack of internal finance for innovation
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	9	39.1%
2	Medium	6	26.1%
3	Low	2	8.7%
4	Not important	6	26.1%
98	Skipped question	247	
99	No answer	24	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_2: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of credit or private equity]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=21 /-] [Invalid=273 /-] [Mean=2.143 /-] [StdDev=1.236 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?

**# Q14\_2: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of credit or private equity]**

<b>Literal question</b>	Lack of credit or private equity
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	9	42.9%
2	Medium	5	23.8%
3	Low	2	9.5%
4	Not important	5	23.8%
98	Skipped question	247	
99	No answer	26	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_3: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of skilled employees within your enterprise]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=20 /-] [Invalid=274 /-] [Mean=2.55 /-] [StdDev=1.146 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Lack of skilled employees within your enterprise
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	4	20.0%
2	Medium	7	35.0%
3	Low	3	15.0%
4	Not important	6	30.0%
98	Skipped question	247	
99	No answer	27	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_4: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Difficulties in obtaining government grants or subsidies for innovation]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=21 /-] [Invalid=273 /-] [Mean=2.476 /-] [StdDev=1.327 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Difficulties in obtaining government grants or subsidies for innovation
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	8	38.1%
2	Medium	2	9.5%
3	Low	4	19.0%
4	Not important	7	33.3%
98	Skipped question	247	
99	No answer	26	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_5: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Lack of collaboration partners]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=21 /-] [Invalid=273 /-] [Mean=3.048 /-] [StdDev=1.117 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Lack of collaboration partners
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	3	14.3%
2	Medium	3	14.3%
3	Low	5	23.8%
4	Not important	10	47.6%
98	Skipped question	247	
99	No answer	26	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_6: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Uncertain market demand for your ideas for innovation]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=22 /-] [Invalid=272 /-] [Mean=2.818 /-] [StdDev=1.14 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Uncertain market demand for your ideas for innovation
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	4	18.2%
2	Medium	4	18.2%
3	Low	6	27.3%
4	Not important	8	36.4%
98	Skipped question	247	
99	No answer	25	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q14\_7: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Too much competition in your market]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=21 /-] [Invalid=273 /-] [Mean=2.571 /-] [StdDev=1.248 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Too much competition in your market
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	6	28.6%
2	Medium	4	19.0%
3	Low	4	19.0%
4	Not important	7	33.3%

**# Q14\_7: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Too much competition in your market]**

Value	Label	Cases	Percentage
98	Skipped question	247	
99	No answer	26	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

**# Q14\_8: 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018? [Legislation/regulation]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=20 /-] [Invalid=274 /-] [Mean=2.45 /-] [StdDev=1.356 /-]
<b>Pre-question</b>	Those who responded with answer 2 in question 12. 14. How important to your enterprise were the following barriers to innovation during 2016 to 2018?
<b>Literal question</b>	Legislation/regulation
<b>Post-question</b>	Go to question 18

Value	Label	Cases	Percentage
1	High	8	40.0%
2	Medium	2	10.0%
3	Low	3	15.0%
4	Not important	7	35.0%
98	Skipped question	247	
99	No answer	27	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

**# Q15\_A01: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [A. Collection of data with sensors]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=128 /-] [Invalid=166 /-] [Mean=1.898 /-] [StdDev=0.303 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Collection of data with sensors

Value	Label	Cases	Percentage
1	Yes	13	10.2%
2	No	115	89.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	69	
Systemmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

**# Q15\_A02: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [B. Collaboration with IT or data experts]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=129 /-] [Invalid=165 /-] [Mean=1.698 /-] [StdDev=0.461 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Collaboration with IT or data experts

**# Q15\_A02: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digatilisation? [B. Collaboration with IT or data experts ]**

Value	Label	Cases	Percentage
1	Yes	39	30.2%
2	No	90	69.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	69	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A03: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digatilisation? [C. Digital simulation of products or the manufacturing process]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=128 /-] [Invalid=166 /-] [Mean=1.859 /-] [StdDev=0.349 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digatilisation?
<b>Literal question</b>	Digital simulation of products or the manufacturing process

Value	Label	Cases	Percentage
1	Yes	18	14.1%
2	No	110	85.9%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	70	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A04: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digatilisation? [D. Augmented and virtual reality]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=125 /-] [Invalid=169 /-] [Mean=1.912 /-] [StdDev=0.284 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digatilisation?
<b>Literal question</b>	Augmented and virtual reality

Value	Label	Cases	Percentage
1	Yes	11	8.8%
2	No	114	91.2%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	73	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A05: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation? [E. Usage of collaborative platforms and social tools to involve customer input]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=124 /-] [Invalid=170 /-] [Mean=1.798 /-] [StdDev=0.403 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation?
<b>Literal question</b>	Usage of collaborative platforms and social tools to involve customer input

Value	Label	Cases	Percentage
1	Yes	25	20.2%
2	No	99	79.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	74	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A06: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation? [F. Internet of Things (IoT)]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=124 /-] [Invalid=170 /-] [Mean=1.774 /-] [StdDev=0.42 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation?
<b>Literal question</b>	Internet of Things (IoT)

Value	Label	Cases	Percentage
1	Yes	28	22.6%
2	No	96	77.4%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	73	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A07: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation? [G. Preparation for Industry 4.0]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=121 /-] [Invalid=173 /-] [Mean=1.876 /-] [StdDev=0.331 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitisation?
<b>Literal question</b>	Preparation for Industry 4.0

Value	Label	Cases	Percentage
1	Yes	15	12.4%
2	No	106	87.6%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*



**# Q15\_A08: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [H. Preparation of digital models of your products for Building Information Modeling]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=123 /-] [Invalid=171 /-] [Mean=1.911 /-] [StdDev=0.287 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Preparation of digital models of your products for Building Information Modeling (BIM)

Value	Label	Cases	Percentage
1	Yes	11	8.9%
2	No	112	91.1%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	75	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A09: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [I. Personalized smart products and services]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=119 /-] [Invalid=175 /-] [Mean=1.874 /-] [StdDev=0.333 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Personalized smart products and services

Value	Label	Cases	Percentage
1	Yes	15	12.6%
2	No	104	87.4%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	78	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A10: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [J. 3D printing technology]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=122 /-] [Invalid=172 /-] [Mean=1.926 /-] [StdDev=0.262 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	3D printing technology

Value	Label	Cases	Percentage
1	Yes	9	7.4%
2	No	113	92.6%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A11: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [K. Automation of production lines]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=125 /-] [Invalid=169 /-] [Mean=1.784 /-] [StdDev=0.413 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Automation of production lines

Value	Label	Cases	Percentage
1	Yes	27	21.6%
2	No	98	78.4%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	73	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_A12: 15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation? [L. Digitalization of logistics and sales systems]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=123 /-] [Invalid=171 /-] [Mean=1.902 /-] [StdDev=0.298 /-]
<b>Pre-question</b>	15a. During the three years 2016 to 2018, did your enterprise introduce any of the following innovations in business process digitilisation?
<b>Literal question</b>	Digitalization of logistics and sales systems

Value	Label	Cases	Percentage
1	Yes	12	9.8%
2	No	111	90.2%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	75	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B01: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [A. Collection of data with sensors]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=41 /-] [Invalid=253 /-] [Mean=1.78 /-] [StdDev=0.419 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Collection of data with sensors

Value	Label	Cases	Percentage
1	Selected	9	22.0%
2	Not selected	32	78.0%
98	Skipped question	96	
99	No answer	157	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B02: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [B. Collaboration with IT or data experts ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=39 /-] [Invalid=255 /-] [Mean=1.795 /-] [StdDev=0.409 /-]

**# Q15\_B02: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [B. Collaboration with IT or data experts ]**

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Collaboration with IT or data experts

Value	Label	Cases	Percentage
1	Selected	8	20.5%
2	Not selected	31	79.5%
98	Skipped question	96	
99	No answer	159	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B03: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [C. Digital simulation of products or the manufacturing process]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=37 /-] [Invalid=257 /-] [Mean=1.865 /-] [StdDev=0.347 /-]

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Digital simulation of products or the manufacturing process

Value	Label	Cases	Percentage
1	Selected	5	13.5%
2	Not selected	32	86.5%
98	Skipped question	96	
99	No answer	161	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B04: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [D. Augmented and virtual reality]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=38 /-] [Invalid=256 /-] [Mean=1.816 /-] [StdDev=0.393 /-]

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Augmented and virtual reality

Value	Label	Cases	Percentage
1	Selected	7	18.4%
2	Not selected	31	81.6%
98	Skipped question	96	
99	No answer	160	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B05: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [E. Usage of collaborative platforms and social tools to involve customer input]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=37 /-] [Invalid=257 /-] [Mean=1.811 /-] [StdDev=0.397 /-]

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Usage of collaborative platforms and social tools to involve customer input

**# Q15\_B05: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [E. Usage of collaborative platforms and social tools to involve customer input]**

Value	Label	Cases	Percentage
1	Selected	7	18.9%
2	Not selected	30	81.1%
98	Skipped question	96	
99	No answer	161	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B06: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [F. Internet of Things (IoT)]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=38 /-] [Invalid=256 /-] [Mean=1.789 /-] [StdDev=0.413 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Internet of Things (IoT)

Value	Label	Cases	Percentage
1	Selected	8	21.1%
2	Not selected	30	78.9%
98	Skipped question	96	
99	No answer	160	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B07: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [G. Preparation for Industry 4.0]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=38 /-] [Invalid=256 /-] [Mean=1.763 /-] [StdDev=0.431 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Preparation for Industry 4.0

Value	Label	Cases	Percentage
1	Selected	9	23.7%
2	Not selected	29	76.3%
98	Skipped question	96	
99	No answer	160	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B08: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [H. Preparation of digital models of your products for Building Information Modeling (BIM) ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=37 /-] [Invalid=257 /-] [Mean=1.865 /-] [StdDev=0.347 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Preparation of digital models of your products for Building Information Modeling (BIM)

Value	Label	Cases	Percentage
1	Selected	5	13.5%
2	Not selected	32	86.5%
98	Skipped question	96	

**# Q15\_B08: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [H. Preparation of digital models of your products for Building Information Modeling (BIM) ]**

Value	Label	Cases	Percentage
99	No answer	161	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B09: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [I. Personalized smart products and services]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=40 /-] [Invalid=254 /-] [Mean=1.725 /-] [StdDev=0.452 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Personalized smart products and services

Value	Label	Cases	Percentage
1	Selected	11	27.5%
2	Not selected	29	72.5%
98	Skipped question	96	
99	No answer	158	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B10: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [J. 3D printing technology]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=39 /-] [Invalid=255 /-] [Mean=1.846 /-] [StdDev=0.366 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	3D printing technology

Value	Label	Cases	Percentage
1	Selected	6	15.4%
2	Not selected	33	84.6%
98	Skipped question	96	
99	No answer	159	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B11: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [K. Automation of production lines]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=47 /-] [Invalid=247 /-] [Mean=1.617 /-] [StdDev=0.491 /-]
<b>Pre-question</b>	15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Automation of production lines

Value	Label	Cases	Percentage
1	Selected	18	38.3%
2	Not selected	29	61.7%
98	Skipped question	96	
99	No answer	151	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B12: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [L. Digitalization of logistics and sales systems]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=41 /-] [Invalid=253 /-] [Mean=1.707 /-] [StdDev=0.461 /-]

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Digitalization of logistics and sales systems

Value	Label	Cases	Percentage
1	Selected	12	29.3%
2	Not selected	29	70.7%
98	Skipped question	96	
99	No answer	157	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q15\_B13: 15b. Are you planning to introduce any of the innovations listed in 15a in future? [None of the above]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=97 /-] [Invalid=197 /-] [Mean=1.351 /-] [StdDev=0.48 /-]

**Pre-question** 15b. Are you planning to introduce any of the innovations listed in 15a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** None of the above

Value	Label	Cases	Percentage
1	Selected	63	64.9%
2	Not selected	34	35.1%
98	Skipped question	96	
99	No answer	101	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A1: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [A. Reduced material or water use per unit of output]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=119 /-] [Invalid=175 /-] [Mean=1.672 /-] [StdDev=0.471 /-]

**Pre-question** 16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?

**Literal question** Reduced material or water use per unit of output

Value	Label	Cases	Percentage
1	Yes	39	32.8%
2	No	80	67.2%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	74	
Sysmiss		5	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A2: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [B. Reduced energy use or CO2 'footprint' ]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=121 /-] [Invalid=173 /-] [Mean=1.529 /-] [StdDev=0.501 /-]

**Pre-question** 16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?

**# Q16\_A2: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [B. Reduced energy use or CO2 'footprint' ]**

**Literal question** Reduced energy use or CO2 'footprint'

Value	Label	Cases	Percentage
1	Yes	57	47.1%
2	No	64	52.9%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	74	
Sysmiss		3	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A3: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [C. Reduced air, water, noise or soil pollution]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=121 /-] [Invalid=173 /-] [Mean=1.521 /-] [StdDev=0.502 /-]

**Pre-question** 16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?

**Literal question** Reduced air, water, noise or soil pollution

Value	Label	Cases	Percentage
1	Yes	58	47.9%
2	No	63	52.1%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	74	
Sysmiss		3	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A4: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [D. Replaced a share of materials with less polluting or hazardous substitutes]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=121 /-] [Invalid=173 /-] [Mean=1.678 /-] [StdDev=0.469 /-]

**Pre-question** 16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?

**Literal question** Replaced a share of materials with less polluting or hazardous substitutes

Value	Label	Cases	Percentage
1	Yes	39	32.2%
2	No	82	67.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A5: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [E. Replaced a share of fossil energy with renewable energy sources]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=120 /-] [Invalid=174 /-] [Mean=1.8 /-] [StdDev=0.402 /-]

**# Q16\_A5: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [E. Replaced a share of fossil energy with renewable energy sources]**

<b>Pre-question</b>	16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?		
<b>Literal question</b>	Replaced a share of fossil energy with renewable energy sources		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	24	20.0%
2	No	96	80.0%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	
Sysmiss		2	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A6: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [F. Recycled waste, water, or materials for own use or sale]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=120 /-] [Invalid=174 /-] [Mean=1.633 /-] [StdDev=0.484 /-]		
<b>Pre-question</b>	16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?		
<b>Literal question</b>	Recycled waste, water, or materials for own use or sale		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	44	36.7%
2	No	76	63.3%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	77	
Sysmiss		1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_A7: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [G. Facilitated recycling of product after use]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=118 /-] [Invalid=176 /-] [Mean=1.686 /-] [StdDev=0.466 /-]		
<b>Pre-question</b>	16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?		
<b>Literal question</b>	Facilitated recycling of product after use		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	37	31.4%
2	No	81	68.6%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	
Sysmiss		4	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*



**# Q16\_A8: 16a. During the three years 2016 to 2018, did your ent. introduce product, process, org. or mark. innov. with any of the following environm. benefits? [H. Extended product life through longer-lasting, more durable products]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=120 /-] [Invalid=174 /-] [Mean=1.617 /-] [StdDev=0.488 /-]
<b>Pre-question</b>	16a. During the three years 2016 to 2018, did your enterprise introduce product, process, organisational or marketing innovations with any of the following environmental benefits?
<b>Literal question</b>	Extended product life through longer-lasting, more durable products

Value	Label	Cases	Percentage
1	Yes	46	38.3%
2	No	74	61.7%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	78	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B1: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [A. Reduced material or water use per unit of output]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=44 /-] [Invalid=250 /-] [Mean=1.727 /-] [StdDev=0.451 /-]
<b>Pre-question</b>	16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Reduced material or water use per unit of output

Value	Label	Cases	Percentage
1	Selected	12	27.3%
2	Not selected	32	72.7%
98	Skipped question	96	
99	No answer	154	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B2: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [B. Reduced energy use or CO2 'footprint' ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=49 /-] [Invalid=245 /-] [Mean=1.633 /-] [StdDev=0.487 /-]
<b>Pre-question</b>	16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Reduced energy use or CO2 'footprint'

Value	Label	Cases	Percentage
1	Selected	18	36.7%
2	Not selected	31	63.3%
98	Skipped question	96	
99	No answer	149	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B3: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [C. Reduced air, water, noise or soil pollution]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=46 /-] [Invalid=248 /-] [Mean=1.696 /-] [StdDev=0.465 /-]

**# Q16\_B3: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [C. Reduced air, water, noise or soil pollution]**

**Pre-question** 16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Reduced air, water, noise or soil pollution

Value	Label	Cases	Percentage
1	Selected	14	30.4%
2	Not selected	32	69.6%
98	Skipped question	96	
99	No answer	152	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B4: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [D. Replaced a share of materials with less polluting or hazardous substitutes]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=44 /-] [Invalid=250 /-] [Mean=1.841 /-] [StdDev=0.37 /-]

**Pre-question** 16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Replaced a share of materials with less polluting or hazardous substitutes

Value	Label	Cases	Percentage
1	Selected	7	15.9%
2	Not selected	37	84.1%
98	Skipped question	96	
99	No answer	154	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B5: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [E. Replaced a share of fossil energy with renewable energy sources]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=47 /-] [Invalid=247 /-] [Mean=1.723 /-] [StdDev=0.452 /-]

**Pre-question** 16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Replaced a share of fossil energy with renewable energy sources

Value	Label	Cases	Percentage
1	Selected	13	27.7%
2	Not selected	34	72.3%
98	Skipped question	96	
99	No answer	151	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B6: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [F. Recycled waste, water, or materials for own use or sale]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=47 /-] [Invalid=247 /-] [Mean=1.702 /-] [StdDev=0.462 /-]

**Pre-question** 16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Recycled waste, water, or materials for own use or sale

**# Q16\_B6: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [F. Recycled waste, water, or materials for own use or sale]**

Value	Label	Cases	Percentage
1	Selected	14	29.8%
2	Not selected	33	70.2%
98	Skipped question	96	
99	No answer	151	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B7: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [G. Facilitated recycling of product after use]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=45 /-] [Invalid=249 /-] [Mean=1.778 /-] [StdDev=0.42 /-]
<b>Pre-question</b>	16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Facilitated recycling of product after use

Value	Label	Cases	Percentage
1	Selected	10	22.2%
2	Not selected	35	77.8%
98	Skipped question	96	
99	No answer	153	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B8: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [H. Extended product life through longer-lasting, more durable products]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=45 /-] [Invalid=249 /-] [Mean=1.667 /-] [StdDev=0.477 /-]
<b>Pre-question</b>	16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Extended product life through longer-lasting, more durable products

Value	Label	Cases	Percentage
1	Selected	15	33.3%
2	Not selected	30	66.7%
98	Skipped question	96	
99	No answer	153	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q16\_B9: 16b. Are you planning to introduce any of the innovations listed in 16a in future? [None of the above]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=104 /-] [Invalid=190 /-] [Mean=1.365 /-] [StdDev=0.484 /-]
<b>Pre-question</b>	16b. Are you planning to introduce any of the innovations listed in 16a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	None of the above

Value	Label	Cases	Percentage
1	Selected	66	63.5%
2	Not selected	38	36.5%
98	Skipped question	96	
99	No answer	94	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_A1: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [A. Ergonomically designed product]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=124 /-] [Invalid=170 /-] [Mean=1.774 /-] [StdDev=0.42 /-]
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?
<b>Literal question</b>	Ergonomically designed product

Value	Label	Cases	Percentage
1	Yes	28	22.6%
2	No	96	77.4%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	74	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_A2: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [B. Attractive appearance (visual comfort)]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=129 /-] [Invalid=165 /-] [Mean=1.496 /-] [StdDev=0.502 /-]
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?
<b>Literal question</b>	Attractive appearance (visual comfort)

Value	Label	Cases	Percentage
1	Yes	65	50.4%
2	No	64	49.6%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	69	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_A3: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [C. Use of sound absorbing materials]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=123 /-] [Invalid=171 /-] [Mean=1.813 /-] [StdDev=0.391 /-]
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?
<b>Literal question</b>	Use of sound absorbing materials

Value	Label	Cases	Percentage
1	Yes	23	18.7%
2	No	100	81.3%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	75	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_A4: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [D. Use of materials with health certificates]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
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<b># Q17_A4: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [D. Use of materials with health certificates]</b>			
<b>Statistics [NW/ W]</b>	[Valid=123 /-] [Invalid=171 /-] [Mean=1.878 /-] [StdDev=0.329 /-]		
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?		
<b>Literal question</b>	Use of materials with health certificates		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	15	12.2%
2	No	108	87.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	75	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q17_A5: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [E. Use of materials free from formaldehyde, benzene and other VOC]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=125 /-] [Invalid=169 /-] [Mean=1.648 /-] [StdDev=0.48 /-]		
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?		
<b>Literal question</b>	Use of materials free from formaldehyde, benzene and other volatile organic compounds		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	44	35.2%
2	No	81	64.8%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	73	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q17_A6: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [F. Products tested for safe and comfortable use]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=124 /-] [Invalid=170 /-] [Mean=1.629 /-] [StdDev=0.485 /-]		
<b>Pre-question</b>	17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?		
<b>Literal question</b>	Products tested for safe and comfortable use		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	46	37.1%
2	No	78	62.9%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	73	
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q17_A7: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [G. Designed in collaboration with health experts ]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=122 /-] [Invalid=172 /-] [Mean=1.951 /-] [StdDev=0.217 /-]		

**# Q17\_A7: 17a. During the three years 2016 to 2018, did your ent. introduce a product, process, or org. innov. with any of the following health benefits? [G. Designed in collaboration with health experts ]**

**Pre-question** 17a. During the three years 2016 to 2018, did your enterprise introduce a product, process, or organisational innovation with any of the following health benefits?

**Literal question** Designed in collaboration with health experts

Value	Label	Cases	Percentage
1	Yes	6	4.9%
2	No	116	95.1%
96	Question not asked	0	
98	Skipped question	96	
99	No answer	76	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B1: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [A. Ergonomically designed product]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=34 /-] [Invalid=260 /-] [Mean=1.882 /-] [StdDev=0.327 /-]

**Pre-question** 17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Ergonomically designed product

Value	Label	Cases	Percentage
1	Selected	4	11.8%
2	Not selected	30	88.2%
98	Skipped question	96	
99	No answer	164	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B2: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [B. Attractive appearance (visual comfort)]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=35 /-] [Invalid=259 /-] [Mean=1.8 /-] [StdDev=0.406 /-]

**Pre-question** 17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Attractive appearance (visual comfort)

Value	Label	Cases	Percentage
1	Selected	7	20.0%
2	Not selected	28	80.0%
98	Skipped question	96	
99	No answer	163	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B3: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [C. Use of sound absorbing materials]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=33 /-] [Invalid=261 /-] [Mean=1.879 /-] [StdDev=0.331 /-]

**Pre-question** 17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Use of sound absorbing materials

**# Q17\_B3: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [C. Use of sound absorbing materials]**

Value	Label	Cases	Percentage
1	Selected	4	12.1%
2	Not selected	29	87.9%
98	Skipped question	96	
99	No answer	165	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B4: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [D. Use of materials with health certificates]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=36 /-] [Invalid=258 /-] [Mean=1.694 /-] [StdDev=0.467 /-]
<b>Pre-question</b>	17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Use of materials with health certificates

Value	Label	Cases	Percentage
1	Selected	11	30.6%
2	Not selected	25	69.4%
98	Skipped question	96	
99	No answer	162	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B5: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [E. Use of materials free from formaldehyde, benzene and other volatile organic compounds]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=35 /-] [Invalid=259 /-] [Mean=1.714 /-] [StdDev=0.458 /-]
<b>Pre-question</b>	17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Use of materials free from formaldehyde, benzene and other volatile organic compounds

Value	Label	Cases	Percentage
1	Selected	10	28.6%
2	Not selected	25	71.4%
98	Skipped question	96	
99	No answer	163	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B6: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [F. Products tested for safe and comfortable use]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=35 /-] [Invalid=259 /-] [Mean=1.771 /-] [StdDev=0.426 /-]
<b>Pre-question</b>	17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Products tested for safe and comfortable use

Value	Label	Cases	Percentage
1	Selected	8	22.9%
2	Not selected	27	77.1%
98	Skipped question	96	
99	No answer	163	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B7: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [G. Designed in collaboration with health experts ]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=37 /-] [Invalid=257 /-] [Mean=1.784 /-] [StdDev=0.417 /-]
<b>Pre-question</b>	17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Designed in collaboration with health experts

Value	Label	Cases	Percentage
1	Selected	8	21.6%
2	Not selected	29	78.4%
98	Skipped question	96	
99	No answer	161	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q17\_B8: 17b. Are you planning to introduce any of the innovations listed in 17a in future? [None of the above]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=112 /-] [Invalid=182 /-] [Mean=1.259 /-] [StdDev=0.44 /-]
<b>Pre-question</b>	17b. Are you planning to introduce any of the innovations listed in 17a in future? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	None of the above

Value	Label	Cases	Percentage
1	Selected	83	74.1%
2	Not selected	29	25.9%
98	Skipped question	96	
99	No answer	86	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q18: 18. Does your enterprise have procedures in place to regularly identify and reduce your enterprises environmental impacts?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=265 /-] [Invalid=29 /-] [Mean=2.875 /-] [StdDev=0.456 /-]
<b>Literal question</b>	Does your enterprise have procedures in place to regularly identify and reduce your enterprise's environmental impacts? (For example preparing environmental audits, setting environmental performance goals, ISO 14001 certification, ISO 50001 certification, etc).



**# Q18: 18. Does your enterprise have procedures in place to regularly identify and reduce your enterprises environmental impacts?**

Value	Label	Cases	Percentage
1	Yes, some procedures were implemented before 2016	13	4.9%
2	Yes, some procedures were implemented or significantly chang	7	2.6%
3	No	245	92.5%
99	No answer	29	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q19\_A\_V1: 19a. In the three years 2016 to 2018, did your enterprise use any by-products of its production?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=191 /-] [Invalid=103 /-] [Mean=1.534 /-] [StdDev=0.5 /-]
<b>Literal question</b>	19a. In the three years 2016 to 2018, did your enterprise use any by-products of its production?

Value	Label	Cases	Percentage
1	Yes	89	46.6%
2	No	102	53.4%
96	Question not asked	86	
98	Skipped question	0	
99	No answer	17	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q19\_B\_V1: 19b. If not, do you plan to use by-products in future?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=100 /-] [Invalid=194 /-] [Mean=1.87 /-] [StdDev=0.338 /-]
<b>Literal question</b>	19b. If not, do you plan to use by-products in future?

Value	Label	Cases	Percentage
1	Yes	13	13.0%
2	No	87	87.0%
96	Question not asked	86	
98	Skipped question	89	
99	No answer	19	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q19\_A\_V2: 19a. In the three years 2016 to 2018, did your enterprise use wood materials in your production?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=9 /-] [Invalid=285 /-] [Mean=1.556 /-] [StdDev=0.527 /-]
<b>Literal question</b>	19a. In the three years 2016 to 2018, did your enterprise use wood materials in your production?

Value	Label	Cases	Percentage
1	Yes	4	44.4%
2	No	5	55.6%
96	Question not asked	284	
98	Skipped question	0	
99	No answer	1	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q19\_B\_V2: 19b. If not, do you plan to use wood materials in future?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=5 /-] [Invalid=289 /-] [Mean=2 /-] [StdDev=0 /-]

<b># Q19_B_V2: 19b. If not, do you plan to use wood materials in future?</b>			
<b>Literal question</b>	19b. If not, do you plan to use by-products in future?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	0	
2	No	5	100.0%
96	Question not asked	284	
98	Skipped question	4	
99	No answer	1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q19_A_V3: 19a. In the three years 2016 to 2018, did your company use wood products for construction?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=57 /-] [Invalid=237 /-] [Mean=1.404 /-] [StdDev=0.495 /-]		
<b>Literal question</b>	19a. In the three years 2016 to 2018, did your company use wood products for construction?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	34	59.6%
2	No	23	40.4%
96	Question not asked	234	
98	Skipped question	0	
99	No answer	3	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q19_B_V3: 19b. If not, do you plan to use wood products in future?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=23 /-] [Invalid=271 /-] [Mean=1.913 /-] [StdDev=0.288 /-]		
<b>Literal question</b>	19b. If not, do you plan to use by-products in future?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	2	8.7%
2	No	21	91.3%
96	Question not asked	234	
98	Skipped question	34	
99	No answer	3	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q19_A_V4: 19a. In the three years 2016 to 2018, did your company sell any wood products?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=15 /-] [Invalid=279 /-] [Mean=1.4 /-] [StdDev=0.507 /-]		
<b>Literal question</b>	19a. In the three years 2016 to 2018, did your company sell any wood products?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	9	60.0%
2	No	6	40.0%
96	Question not asked	278	
98	Skipped question	0	
99	No answer	1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q19_B_V4: 19b. If not, do you plan to sell wood products in future?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		

<b># Q19_B_V4: 19b. If not, do you plan to sell wood products in future?</b>			
<b>Statistics [NW/ W]</b>	[Valid=6 /-] [Invalid=288 /-] [Mean=1.833 /-] [StdDev=0.408 /-]		
<b>Literal question</b>	19b. If not, do you plan to use by-products in future?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	1	16.7%
2	No	5	83.3%
96	Question not asked	278	
98	Skipped question	9	
99	No answer	1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A1: 20a. In the three years 2016 to 2018, did your enterprise: [A. Apply for a patent]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=270 /-] [Invalid=24 /-] [Mean=1.959 /-] [StdDev=0.198 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Apply for a patent		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	11	4.1%
2	No	259	95.9%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	24	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A2: 20a. In the three years 2016 to 2018, did your enterprise: [B. Apply for an utility model]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=268 /-] [Invalid=26 /-] [Mean=1.974 /-] [StdDev=0.16 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Apply for an utility model		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	7	2.6%
2	No	261	97.4%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	26	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A3: 20a. In the three years 2016 to 2018, did your enterprise: [C. Register an industrial design right]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=267 /-] [Invalid=27 /-] [Mean=1.981 /-] [StdDev=0.136 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Register an industrial design right		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	Yes	5	1.9%
2	No	262	98.1%
96	Question not asked	0	
98	Skipped question	0	

<b># Q20_A3: 20a. In the three years 2016 to 2018, did your enterprise: [C. Register an industrial design right]</b>			
Value	Label	Cases	Percentage
99	No answer	27	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A4: 20a. In the three years 2016 to 2018, did your enterprise: [D. Register a trademark]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=266 /-] [Invalid=28 /-] [Mean=1.955 /-] [StdDev=0.208 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Register a trademark		
Value	Label	Cases	Percentage
1	Yes	12	4.5%
2	No	254	95.5%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	28	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A5: 20a. In the three years 2016 to 2018, did your enterprise: [E. Use trade secrets]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=264 /-] [Invalid=30 /-] [Mean=1.856 /-] [StdDev=0.352 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Use trade secrets		
Value	Label	Cases	Percentage
1	Yes	38	14.4%
2	No	226	85.6%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	30	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_A6: 20a. In the three years 2016 to 2018, did your enterprise: [F. Claim copyright]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=263 /-] [Invalid=31 /-] [Mean=1.981 /-] [StdDev=0.137 /-]		
<b>Pre-question</b>	20a. In the three years 2016 to 2018, did your enterprise:		
<b>Literal question</b>	Claim copyright		
Value	Label	Cases	Percentage
1	Yes	5	1.9%
2	No	258	98.1%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	31	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q20_B1: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [A. Apply for a patent]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=85 /-] [Invalid=209 /-] [Mean=1.894 /-] [StdDev=0.31 /-]		

**# Q20\_B1: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [A. Apply for a patent]**

**Pre-question** 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Apply for a patent

Value	Label	Cases	Percentage
1	Selected	9	10.6%
2	Not selected	76	89.4%
98	Skipped question	0	
99	No answer	209	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B2: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [B. Apply for an utility model]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=86 /-] [Invalid=208 /-] [Mean=1.93 /-] [StdDev=0.256 /-]

**Pre-question** 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Apply for an utility model

Value	Label	Cases	Percentage
1	Selected	6	7.0%
2	Not selected	80	93.0%
98	Skipped question	0	
99	No answer	208	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B3: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [C. Register an industrial design right]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=83 /-] [Invalid=211 /-] [Mean=1.988 /-] [StdDev=0.11 /-]

**Pre-question** 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Register an industrial design right

Value	Label	Cases	Percentage
1	Selected	1	1.2%
2	Not selected	82	98.8%
98	Skipped question	0	
99	No answer	211	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B4: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [D. Register a trademark]**

**Information** [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=\*]

**Statistics [NW/ W]** [Valid=84 /-] [Invalid=210 /-] [Mean=1.905 /-] [StdDev=0.295 /-]

**Pre-question** 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)

**Literal question** Register a trademark

**# Q20\_B4: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [D. Register a trademark]**

Value	Label	Cases	Percentage
1	Selected	8	9.5%
2	Not selected	76	90.5%
98	Skipped question	0	
99	No answer	210	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B5: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [E. Use trade secrets]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=88 /-] [Invalid=206 /-] [Mean=1.909 /-] [StdDev=0.289 /-]
<b>Pre-question</b>	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Use trade secrets

Value	Label	Cases	Percentage
1	Selected	8	9.1%
2	Not selected	80	90.9%
98	Skipped question	0	
99	No answer	206	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B6: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [F. Claim copyright]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=82 /-] [Invalid=212 /-] [Mean=1.988 /-] [StdDev=0.11 /-]
<b>Pre-question</b>	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	Claim copyright

Value	Label	Cases	Percentage
1	Selected	1	1.2%
2	Not selected	81	98.8%
98	Skipped question	0	
99	No answer	212	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q20\_B7: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [None of the above]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=226 /-] [Invalid=68 /-] [Mean=1.124 /-] [StdDev=0.33 /-]
<b>Pre-question</b>	20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? (Please tick the boxes before corresponding letters. Multiple answers are possible.)
<b>Literal question</b>	None of the above

Value	Label	Cases	Percentage
1	Selected	198	87.6%
2	Not selected	28	12.4%
98	Skipped question	0	

**# Q20\_B7: 20b. Did your enterprise introduce any of the intellectual property rights listed in 20a before 2016? [None of the above]**

Value	Label	Cases	Percentage
99	No answer	68	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q21: 21. What was your total turnover for 2018?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=273 /-] [Invalid=21 /-] [Mean=2.659 /-] [StdDev=1.802 /-]
<b>Literal question</b>	21. What was your enterprises's total turnover for 2018? (Turnover is defined as the market sales of goods and services. Include all taxes except VAT.)

Value	Label	Cases	Percentage
1	Less than 100,000 Euros	118	43.2%
2	100,000 to less than 250,000 Euros	38	13.9%
3	250,000 to less than 500,000 Euros	26	9.5%
4	500,000 to less than 1 million Euros	23	8.4%
5	1 million to less than 5 million Euros	46	16.8%
6	Over 5 million Euros	22	8.1%
99	No answer	21	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q22: 22. What was the percent of your total turnover from sales to clients outside your country for 2018?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=131 /-] [Invalid=163 /-] [Mean=1.641 /-] [StdDev=1.535 /-]
<b>Literal question</b>	22. What was the percent of your total turnover from sales to clients outside your country for 2018?

Value	Label	Cases	Percentage
1	0% to less than 1%	108	82.4%
2	1% to less than 5%	2	1.5%
3	5% to less than 10%	3	2.3%
4	10% to less than 25%	7	5.3%
5	25% to less than 50%	4	3.1%
6	50% to less than 75%	3	2.3%
7	75% or more	4	3.1%
97	Unclear answer	87	
98	Skipped question	0	
99	No answer	76	

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

**# Q23: 23. What is the percent of your RDI budget as a share of the overall income?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=139 /-] [Invalid=155 /-] [Mean=1.338 /-] [StdDev=0.982 /-]
<b>Literal question</b>	23. What is the percent of your enterprise's RDI budget as a share of the overall income?

Value	Label	Cases	Percentage
1	0% to less than 1%	119	85.6%
2	1% to less than 5%	8	5.8%
3	5% to less than 10%	4	2.9%
4	10% to less than 25%	3	2.2%
5	25% to less than 50%	3	2.2%

<b># Q23: 23. What is the percent of your RDI budget as a share of the overall income?</b>			
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
6	50% to less than 75%	2	1.4%
7	75% or more	0	
97	Unclear answer	59	
98	Skipped question	0	
99	No answer	96	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q24: 24. What was your average number of employees in 2018?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=282 /-] [Invalid=12 /-] [Mean=2.809 /-] [StdDev=1.128 /-]		
<b>Literal question</b>	24. What was your enterprise's average number of employees in 2018?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	0 employees	36	12.8%
2	1 employee	74	26.2%
3	2-9 employees	106	37.6%
4	10 to less than 50 employees	43	15.2%
5	50 to less than 250 employees	20	7.1%
6	Over 250 employees	3	1.1%
97	Unclear answer	0	
98	Skipped question	0	
99	No answer	12	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q25_1: 25. Approximately how many of your employees in 2018 [a. had a tertiary degree (undegraduate degree or more)?]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=182 /-] [Invalid=112 /-] [Mean=2.176 /-] [StdDev=1.026 /-]		
<b>Pre-question</b>	25. Approximately how many of your enterprise's employees in 2018		
<b>Literal question</b>	Had a tertiary degree (undegraduate degree or more)?		
<b>Value</b>	<b>Label</b>	<b>Cases</b>	<b>Percentage</b>
1	0 employees	57	31.3%
2	1 employee	58	31.9%
3	2-9 employees	48	26.4%
4	10 to less than 50 employees	16	8.8%
5	50 to less than 250 employees	3	1.6%
6	Over 250 employees	0	
97	Unclear answer	3	
98	Skipped question	36	
99	No answer	73	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q25_2: 25. Approximately how many of your employees in 2018 [b. were in RDI positions?]</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=153 /-] [Invalid=141 /-] [Mean=1.595 /-] [StdDev=0.892 /-]		
<b>Pre-question</b>	25. Approximately how many of your enterprise's employees in 2018		
<b>Literal question</b>	Were in RDI positions?		



**# Q25\_2: 25. Approximately how many of your employees in 2018 [b. were in RDI positions?]**

Value	Label	Cases	Percentage
1	0 employees	97	63.4%
2	1 employee	28	18.3%
3	2-9 employees	21	13.7%
4	10 to less than 50 employees	7	4.6%
5	50 to less than 250 employees	0	
6	Over 250 employees	0	
97	Unclear answer	2	
98	Skipped question	36	
99	No answer	103	

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**# Q25\_3: 25. Approximately how many of your employees in 2018 [c. were simultaneously in a RDI and management position?]**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=162 /-] [Invalid=132 /-] [Mean=1.698 /-] [StdDev=0.757 /-]
<b>Pre-question</b>	25. Approximately how many of your enterprise's employees in 2018
<b>Literal question</b>	Were simultaneously in a RDI and management position?

Value	Label	Cases	Percentage
1	0 employees	75	46.3%
2	1 employee	64	39.5%
3	2-9 employees	20	12.3%
4	10 to less than 50 employees	3	1.9%
5	50 to less than 250 employees	0	
6	Over 250 employees	0	
97	Unclear answer	2	
98	Skipped question	36	
99	No answer	94	

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**# Q26\_A: 26a. Do you have enough skilled employees?**

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=247 /-] [Invalid=47 /-] [Mean=1.332 /-] [StdDev=0.472 /-]
<b>Literal question</b>	26a. Do you have enough skilled employees?

Value	Label	Cases	Percentage
1	Yes	165	66.8%
2	No	82	33.2%
96	Question not asked	0	
98	Skipped question	0	
99	No answer	47	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

**# Q26\_B\_ur: 26b. If no, what are the skills that you would need more of, that are in demand? (open\_rec)**

<b>Information</b>	[Type= discrete] [Format=character] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-]
<b>Literal question</b>	26b. If no, what are the skills that you would need more of, that are in demand?_open_rec

<b># Q26_B_ur: 26b. If no, what are the skills that you would need more of, that are in demand? (open_rec)</b>			
Value	Label	Cases	Percentage
Data available in excel file n=54		294	100.0%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q26_B: 26b. If no, what are the skills that you would need more of, that are in demand?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=52 /-] [Invalid=242 /-] [Mean=1 /-] [StdDev=0 /-]		
<b>Literal question</b>	26b. If no, what are the skills that you would need more of, that are in demand?		
Value	Label	Cases	Percentage
1	Provided useful answer	52	100.0%
97	Response not related to question	2	
98	Skipped question	165	
99	No answer	75	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q27_ur: 27. Do you have any comment or is there anything we left out related to the topic that you consider important? (open_rec)</b>			
<b>Information</b>	[Type= discrete] [Format=character] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=294 /-] [Invalid=0 /-]		
<b>Literal question</b>	27. Do you have any comment or is there anything we left out related to the topic that you consider important?_open?rec		
Value	Label	Cases	Percentage
Data available in excel file n=34		294	100.0%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
<b># Q27: 27. Do you have any comment or is there anything we left out related to the topic that you consider important?</b>			
<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=34 /-] [Invalid=260 /-] [Mean=1.882 /-] [StdDev=0.591 /-]		
<b>Literal question</b>	27. Do you have any comment or is there anything we left out related to the topic that you consider important?		
Value	Label	Cases	Percentage
1	Comment about survey	8	23.5%
2	Comment about research topic	22	64.7%
3	Comment about both	4	11.8%
99	No answer	260	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			