

## Questionnaire manual: Research and development (R&D)

Questionnaire code: 11332025

Submitted in: 1.03.2025, data about 2024

Periodicity: Annual

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### DATA COLLECTED WITH THE QUESTIONNAIRE

**Table 0.1. GENERAL DATA**

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Existence of internal R&D costs *	RD_ENT_YES	Existence of internal R&D costs in the reference period. If the company only outsourced R&D services, the answer to this question is 'No'. The main criterion of R&D is innovativeness and the absence of a solution for a scientific or a technological problem in the early stage of the work. R&D is the research and development work carried out in the company. A broader definition of R&D: if the main goal is to technically improve a product or process, the work performed is classified as R&D. If a product, process or an approach has basically been developed and the main goal of the work is market expansion, pre-production planning or the smooth performance of a control system, the activity is not classified as R&D.	valik_jah_ei_1v	

**Table 1. NUMBER OF PERSONS EMPLOYED AT THE END OF THE REFERENCE YEAR**

At the end of the reference year does not necessarily mean as at the last working day of the year, but a day in the second half of December, when the necessary data is available.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Number of persons employed at the end of the reference period: total – men and women	RD_EMP_L_MF	Number of persons employed at the end of the reference year.	Positive integer	
1 / 2	Number of R&D personnel at the end of the reference period	RD_PER_MF	Number of employees engaged in R&D.	Positive integer	

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**Table 1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY SCIENTIFIC AREAS AT THE END OF THE REFERENCE YEAR**

List all persons who worked for the organisation at the end of the reference year and were engaged in R&D in the extent of at least 10% of their working time. Only indicate data about those people in the table, who were indicated in column 2 of Table 1. Doctoral and master's students are reflected in the report together with scientists and engineers, provided that they get remuneration for R&D.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in natural sciences – total	RD_RES MF_NAT	Number of researchers and engineers in the field of natural sciences at the end of the reference period.	Positive integer	
1 / 2	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in engineering and technology sciences – total	RD_RES MF_ENG	Number of researchers and engineers in the field of engineering and technology sciences at the end of the reference period.	Positive integer	
1 / 3	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in medical and health sciences – total	RD_RES MF_MED	Number of researchers and engineers in the field of medical and health sciences at the end of the reference period.	Positive integer	
1 / 4	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in agricultural and veterinary sciences – total	RD_RES MF_AGR	Number of researchers and engineers in the field of agricultural and veterinary sciences at the end of the reference period.	Positive integer	
1 / 5	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in social sciences – total	RD_RES MF_SOC	Number of researchers and engineers in the field of social sciences at the end of the reference period.	Positive integer	
1 / 6	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in humanities and the arts – total	RD_RES MF_HUM	Number of researchers and engineers in the field of humanities and the arts at the end of the reference period.	Positive integer	
2 / 1	Number of employees engaged in R&D at the end of the	RD_RES F_NAT	Number of female researchers and engineers in the area of natural sciences at the end of the reference year.	Positive integer	

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	reference period: researchers and engineers in natural sciences – women				
2 / 2	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in engineering and technology sciences – women	RD_RES F_ENG	Number of female researchers and engineers in the field of engineering and technology sciences at the end of the reference period.	Positive integer	
2 / 3	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in medical and health sciences – women	RD_RES F_MED	Number of female researchers and engineers in the field of medical and health sciences at the end of the reference period.	Positive integer	
2 / 4	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in agricultural and veterinary sciences – women	RD_RES F_AGR	Number of female researchers and engineers in the field of agricultural and veterinary sciences at the end of the reference period.	Positive integer	
2 / 5	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in social sciences – women	RD_RES F_SOC	Number of female researchers and engineers in the area of social sciences at the end of the reference year.	Positive integer	
2 / 6	Number of employees engaged in R&D at the end of the reference period: researchers and engineers in humanities and the arts – women	RD_RES F_HUM	Number of female researchers and engineers in the field of humanities and the arts at the end of the reference period.	Positive integer	
3 / 1	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in natural sciences – total	RD_OTH MF_NAT	Number of technicians and support staff engaged in R&D in the field of natural sciences at the end of the reference period.	Positive integer	
3 / 2	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in engineering and technology sciences – total	RD_OTH MF_ENG	Number of technicians and support staff engaged in R&D in the field of engineering and technology sciences at the end of the reference period.	Positive integer	
3 / 3	Number of employees engaged in R&D at the end of the reference period: other R&D	RD_OTH MF_MED	Number of technicians and support staff engaged in R&D in the field of medical and health sciences at the end of the reference period.	Positive integer	

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	personnel in medical and health sciences – total				
3 / 4	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in agricultural and veterinary sciences – total	RD_OTH MF_AGR	Number of technicians and support staff engaged in R&D in the field of agricultural and veterinary sciences at the end of the reference period.	Positive integer	
3 / 5	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in social sciences – total	RD_OTH MF_SOC	Number of technicians and support staff engaged in R&D in the field of social sciences at the end of the reference period.	Positive integer	
3 / 6	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in humanities and the arts – total	RD_OTH MF_HU M	Number of technicians and support staff engaged in R&D in the field of humanities and the arts at the end of the reference period.	Positive integer	
4 / 1	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in natural sciences – women	RD_OTH F_NAT	Number of female technicians and support staff engaged in R&D in the field of natural sciences at the end of the reference period.	Positive integer	
4 / 2	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in engineering and technology sciences – women	RD_OTH F_ENG	Number of female technicians and support staff engaged in R&D in the field of engineering and technology sciences at the end of the reference period.	Positive integer	
4 / 3	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in medical and health sciences – women	RD_OTH F_MED	Number of female technicians and support staff engaged in R&D in the field of medical and health sciences at the end of the reference period.	Positive integer	
4 / 4	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in agricultural and veterinary sciences – women	RD_OTH F_AGR	Number of female technicians and support staff engaged in R&D in the field of agricultural and veterinary sciences at the end of the reference period.	Positive integer	
4 / 5	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in social sciences – women	RD_OTH F_SOC	Number of female technicians and support staff engaged in R&D in the field of social sciences at the end of the reference period.	Positive integer	

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4 / 6	Number of employees engaged in R&D at the end of the reference period: other R&D personnel in humanities and the arts – women	RD_OTH F_HUM	Number of female technicians and support staff engaged in R&D in the field of humanities and the arts at the end of the reference period.	Positive integer	
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### Table 1.2. NUMBER OF EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT IN THE REFERENCE YEAR IN FULL-TIME EQUIVALENTS

Unlike in Table 1.1, Table 1.2 also lists the working time spent on R&D by those employees who do not work any more at the end of the year or for whom the share of R&D in their work was below 10%. In other words – indicate all working time spent on R&D in the reference year. Working time spent on R&D by one employee can be divided by areas for Table 1.2. The data about the employee may be estimated.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/classification name	You need not fill in the value: period, economic activity
1 / 1	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in natural sciences – total	RD_RES MF_FTE _NAT	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in natural sciences during the reference period.	Positive real number (0,2)	
1 / 2	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in engineering and technology sciences – total	RD_RES MF_FTE _ENG	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in engineering and technology sciences during the reference period.	Positive real number (0,2)	
1 / 3	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in medical and health sciences – total	RD_RES MF_FTE _MED	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in medical and health sciences during the reference period.	Positive real number (0,2)	
1 / 4	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in agricultural and veterinary sciences – total	RD_RES MF_FTE _AGR	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in agricultural and veterinary sciences during the reference period.	Positive real number (0,2)	
1 / 5	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in social sciences – total	RD_RES MF_FTE _SOC	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in social sciences during the reference period.	Positive real number (0,2)	
1 / 6	Full-time equivalent (FTE)	RD_RES MF_FTE	Full-time equivalent (FTE) hours spent on R&D by researchers and engineers in humanities and the arts during	Positive real number	

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	hours spent on R&D in the reference period: researchers and engineers in humanities and the arts – total	_HUM	the reference period.	(0,2)	
2 / 1	Working time spent on R&D in full-time years in the reference period: researchers and engineers in natural sciences – women	RD_RES F_FTE_ NAT	Working time of female researchers and engineers spent on R&D in the area of natural sciences in the reference year.	Positive real number (0,2)	
2 / 2	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in engineering and technology sciences – women	RD_RES F_FTE_ ENG	Working time of female researchers and engineers spent on R&D in the field of engineering and technology sciences in the reference year.	Positive real number (0,2)	
2 / 3	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in medical and health sciences – women	RD_RES F_FTE_ MED	Working time of female researchers and engineers spent on R&D in the field of medical and health sciences in the reference year.	Positive real number (0,2)	
2 / 4	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in agricultural and veterinary sciences – women	RD_RES F_FTE_ AGR	Working time of female researchers and engineers spent on R&D in the field of agricultural and veterinary sciences in the reference year.	Positive real number (0,2)	
2 / 5	Working time spent on R&D in full-time years in the reference period: scientists and engineers in social sciences – women	RD_RES F_FTE_ SOC	Working time of female scientists and engineers spent on R&D in the area of social sciences in the reference year.	Positive real number (0,2)	
2 / 6	Full-time equivalent (FTE) hours spent on R&D in the reference period: researchers and engineers in humanities and the arts – women	RD_RES F_FTE_ HUM	Working time of female researchers and engineers spent on R&D in the field of humanities and the arts in the reference year.	Positive real number (0,2)	
3 / 1	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in natural sciences – total	RD_OTH MF_FTE_ _NAT	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in the field of natural sciences during the reference period.	Positive real number (0,2)	
3 / 2	Full-time equivalent (FTE) hours spent on R&D in the reference period:	RD_OTH MF_FTE_ _ENG	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in engineering and technology sciences during the reference period.	Positive real number (0,2)	

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	other R&D personnel in engineering and technology sciences – total				
3 / 3	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in medical and health sciences – total	RD_OTH MF_FTE _MED	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in the field of medical and health sciences during the reference period.	Positive real number (0,2)	
3 / 4	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in agricultural and veterinary sciences – total	RD_OTH MF_FTE _AGR	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in agricultural and veterinary sciences during the reference period.	Positive real number (0,2)	
3 / 5	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in social sciences – total	RD_OTH MF_FTE _SOC	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in social sciences during the reference period.	Positive real number (0,2)	
3 / 6	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in humanities and the arts – total	RD_OTH MF_FTE _HUM	Full-time equivalent (FTE) hours spent on R&D by technicians and support staff in humanities and the arts during the reference period.	Positive real number (0,2)	
4 / 1	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in natural sciences – women	RD_OTH F_FTE_ NAT	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in the field of natural sciences during the reference period.	Positive real number (0,2)	
4 / 2	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in engineering and technology sciences – women	RD_OTH F_FTE_ ENG	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in the field of engineering and technology sciences during the reference period.	Positive real number (0,2)	
4 / 3	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in medical and health sciences – women	RD_OTH F_FTE_ MED	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in the field of medical and health sciences during the reference period.	Positive real number (0,2)	
4 / 4	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in	RD_OTH F_FTE_ AGR	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in agricultural and veterinary sciences during the reference period.	Positive real number (0,2)	

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	agricultural and veterinary sciences – women				
4 / 5	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in social sciences – women	RD_OTH F_FTE_ SOC	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in social sciences during the reference period.	Positive real number (0,2)	
4 / 6	Full-time equivalent (FTE) hours spent on R&D in the reference period: other R&D personnel in humanities and the arts – women	RD_OTH F_FTE_ HUM	Full-time equivalent (FTE) hours spent on R&D by female technicians and support staff in humanities and the arts during the reference period.	Positive real number (0,2)	

**Table 2. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY POST AND LEVEL OF EDUCATION AT THE END OF THE REFERENCE YEAR**

Data about the level of education of employees based on the document indicating the highest level of education. On row 8, the sums in columns 1–6 must correspond to the data indicated in Table 1.1 column 7.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Number of employees engaged in R&D at the end of the reference period: researchers and engineers with doctoral degree – women and men	RD_RES MF_DOC	Total number of researchers and engineers with a doctoral degree by scientific area at the end of the reference year.	Positive integer	
1 / 2	Number of employees engaged in R&D at the end of the reference period: researchers and engineers with doctoral degree – women	RD_RES F_DOC	Number of female researchers and engineers with doctoral degree at the end of the reference year.	Positive integer	
1 / 3	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with doctoral degree – total	RD_OTH MF_DOC	Number of technicians and support staff with a doctoral degree at the end of the reference period.	Positive integer	
1 / 4	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with doctoral degree – women	RD_OTH F_DOC	Number of female technicians and support staff with a doctoral degree at the end of the reference period.	Positive integer	
2 / 1	Number of employees engaged in R&D	RD_RES MF_HIG H	Number of researchers and engineers with a master's degree, academic higher education or professional higher education at the end of the reference period.	Positive integer	

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	at the end of the reference period: researchers and engineers with a master's degree, academic higher education or professional higher education – total				
2 / 2	Number of employees engaged in R&D at the end of the reference period: researchers and engineers with a master's degree, academic higher education or a professional higher education – women	RD_RES F_HIGH	Number of female researchers and engineers with a master's degree, academic higher education or professional higher education at the end of the reference period.	Positive integer	
2 / 3	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with a master's degree, academic higher education or professional higher education – total	RD_OTH MF_HIG H	Number of technicians and support staff with a master's degree, academic higher education or professional higher education at the end of the reference period.	Positive integer	
2 / 4	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with a master's degree, academic higher education or professional higher education – women	RD_OTH F_HIGH	Number of female technicians and support staff with a master's degree, academic higher education or professional higher education at the end of the reference period.	Positive integer	
3 / 3	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with secondary or professional secondary education or without secondary education – total	RD_OTH MF_SEC N	Number of technicians and support staff with secondary or professional secondary education or without secondary education at the end of the reference period.	Positive integer	
3 / 4	Number of employees engaged in R&D at the end of the reference period: other R&D personnel with secondary or professional secondary education or without secondary education – women	RD_OTH F_SECN	Number of female R&D personnel with secondary or professional secondary education or without secondary education at the end of the reference period.	Positive integer	

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**Table 3. RESEARCHERS AND ENGINEERS BY AGE AT THE END OF THE REFERENCE YEAR (The table does not include data on other R&D personnel (technicians, support staff))**

Distribution of scientists and engineers by age. Total numbers of female and male scientists must correspond to the data indicated in previous tables. The table does not include data about technicians or assistant personnel. Total number of (fe)male scientists and engineers by age in column 1 must correspond to the data indicated in Table 1.1 column 7 row 1 (2).

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 2	Number of researchers and engineers at the end of the reference period: up to 25-year-olds – men and women	RD_RES MF_AGE 1	Number of researchers and engineers aged under 25 at the end of the reference period.	Positive integer	
1 / 3	Number of researchers and engineers at the end of the reference period: 25–34-year-olds – men and women	RD_RES MF_AGE 2	Number of researchers and engineers aged 25–34 at the end of the reference period.	Positive integer	
1 / 4	Number of researchers and engineers at the end of the reference period: 35–44-year-olds – men and women	RD_RES MF_AGE 3	Number of researchers and engineers aged 35–44 at the end of the reference period.	Positive integer	
1 / 5	Number of researchers and engineers at the end of the reference period: 45–54-year-olds – men and women	RD_RES MF_AGE 4	Number of researchers and engineers aged 45–54 at the end of the reference period.	Positive integer	
1 / 6	Number of researchers and engineers at the end of the reference period: 55–64-year-olds – men and women	RD_RES MF_AGE 5	Number of researchers and engineers aged 55–64 at the end of the reference period.	Positive integer	
1 / 7	Number of researchers and engineers at the end of the reference period: at least 65-year-olds – men and women	RD_RES MF_AGE 6	Number of researchers and engineers aged 65 and over at the end of the reference period.	Positive integer	
2 / 2	Number of researchers and engineers at the end of the reference period: up to 25-year-olds – women	RD_RES F_AGE1	Number of under 25-year-old female researchers and engineers at the end of the reference year.	Positive integer	
2 / 3	Number of researchers and engineers at the end of the reference period: 25–34-year-olds – women	RD_RES F_AGE2	Number of 25–34-year-old female researchers and engineers at the end of the reference year.	Positive integer	
2 / 4	Number of researchers and	RD_RES F_AGE3	Number of 35–44-year-old female researchers and engineers at the end of the reference year.	Positive integer	

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	engineers at the end of the reference period: 35–44-year-olds – women				
2 / 5	Number of researchers and engineers at the end of the reference period: 45–54-year-olds – women	RD_RES F_AGE4	Number of 45–54-year-old female researchers and engineers at the end of the reference year.	Positive integer	
2 / 6	Number of researchers and engineers at the end of the reference period: 55–64-year-olds – women	RD_RES F_AGE5	Number of 55–64-year-old female researchers and engineers at the end of the reference year.	Positive integer	
2 / 7	Number of researchers and engineers at the end of the reference period: at least 65-year-olds – women	RD_RES F_AGE6	Number of at least 65-year-old female researchers and engineers at the end of the reference year.	Positive integer	

**Table 4. RESEARCHERS AND ENGINEERS BY FIELD OF SCIENCE AT THE END OF THE REFERENCE YEAR (The table does not include data on other R&D personnel (technicians, support staff))**

Division of scientists and engineers by scientific degree, scientific areas are determined by the main activities of the employee like in Table 1.1, not by the specialty of the scientific degree or diploma. The table does not include data about technicians or assistant personnel. Column 1 and 2 are prefilled with data from Table 1.1. On row 7, the sums in columns 1–6 must correspond to the data indicated in Table 2 columns 1–2.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Number of researchers and engineers at the end of the reference period: natural sciences – women and men with doctoral degree	RD_RES MF_NAT _DOC	Number of researchers and engineers in the field of natural sciences with a doctoral degree at the end of the reference period.	Positive integer	
1 / 2	Number of researchers and engineers at the end of the reference period: natural sciences – women with doctoral degree	RD_RES F_NAT _DOC	Number of female researchers and engineers the area of natural sciences with doctoral degree at the end of the reference year.	Positive integer	
2 / 1	Number of researchers and engineers at the end of the reference period: engineering and technology sciences – women and men with doctoral degree	RD_RES MF_ENG _DOC	Number of researchers and engineers in the field of engineering and technology sciences with a doctoral degree at the end of the reference period.	Positive integer	
2 / 2	Number of researchers and engineers at the end of the	RD_RES F_ENG _DOC	Number of female researchers and engineers in the field of engineering and technology sciences with a doctoral degree at the end of the reference period.	Positive integer	

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3 / 1	Number of researchers and engineers at the end of the reference period: medical and health sciences – women and men with doctoral degree	RD_RES MF_MED _DOC	Number of researchers and engineers in the field of medical and health sciences with a doctoral degree at the end of the reference period.	Positive integer	
3 / 2	Number of researchers and engineers at the end of the reference period: medical and health sciences – women with doctoral degree	RD_RES F_MED_ DOC	Number of female researchers and engineers in the field of medical and health sciences with a doctoral degree at the end of the reference period.	Positive integer	
4 / 1	Number of researchers and engineers at the end of the reference period: agricultural and veterinary sciences – women and men with doctoral degree	RD_RES MF_AGR _DOC	Number of researchers and engineers in the field of agricultural and veterinary sciences with a doctoral degree at the end of the reference period.	Positive integer	
4 / 2	Number of researchers and engineers at the end of the reference period: agricultural and veterinary sciences – women with doctoral degree	RD_RES F_AGR_ DOC	Number of female researchers and engineers in the field of agricultural and veterinary sciences with a doctoral degree at the end of the reference period.	Positive integer	
5 / 1	Number of researchers and engineers at the end of the reference period: social sciences – women and men with doctoral degree	RD_RES MF_SOC _DOC	Number of researchers and engineers in the field of social sciences with a doctoral degree at the end of the reference period.	Positive integer	
5 / 2	Number of researchers and engineers at the end of the reference period: social sciences – women with doctoral degree	RD_RES F_SOC_ DOC	Number of female researchers and engineers the area of social sciences with doctoral degree at the end of the reference year.	Positive integer	
6 / 1	Number of researchers and engineers at the end of the reference period: humanities and the arts – women and men with doctoral degree	RD_RES MF_HU M_DOC	Number of researchers and engineers in the field of humanities and the arts with a doctoral degree at the end of the reference period.	Positive integer	
6 / 2	Number of researchers and engineers at the end of the reference period: humanities and	RD_RES F_HUM_ DOC	Number of female researchers and engineers in the field of humanities and the arts with a doctoral degree at the end of the reference period.	Positive integer	

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	the arts – women with doctoral degree				
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**Table 5. SCIENTISTS AND ENGINEERS WITH FOREIGN CITIZENSHIP BY SEX**

Please note that foreign researchers indicated in Table 5 must also be included in tables 1, 1.1, 1.2, 2, 3 and 4.

Data about scientists and engineers with foreign citizenship by countries and sex. If filled in online, choose the name of the country from the list of countries.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Researchers and engineers with foreign citizenship – code and name of the country	RD_ISO_FOR	Official name and code of the country of citizenship of researchers and engineers with foreign citizenship.	Riikide ja territooriumide klassifikaator 2T 2022v1	
1 / 2	Number of researchers and engineers with foreign citizenship – men and women	RD_RES_MF_FOR	Number of researchers and engineers with the citizenship of the respective country.	Positive integer	
1 / 3	Number of researchers and engineers with foreign citizenship – women	RD_RES_F_FOR	Number of female researchers and engineers with the citizenship of the respective country.	Positive integer	

**Table 6. COSTS ON RESEARCH AND DEVELOPMENT BY SOURCES OF FUNDING AND SCIENTIFIC AREAS, EUROS**

R&D costs by sources of funding and scientific areas. Five main sources of R&D funding are distinguished: state, companies, non-profit private sector, universities and higher education institutions and foreign sources. Financial data is indicated in euros without decimals.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 2	Funding of R&D costs: natural sciences – from state funds	RD_EXP_NAT_GOV	Funding of natural sciences from state funds.	Positive integer	
1 / 3	Funding of R&D costs: natural sciences – from companies	RD_EXP_NAT_BES	Funding of natural sciences from companies.	Positive integer	
1 / 4	Funding of R&D costs: natural sciences – from non-profit private sector	RD_EXP_NAT_PNP	Funding of natural sciences from non-profit private sector.	Positive integer	
1 / 5	Funding of R&D costs: natural sciences – from universities and higher education institutions	RD_EXP_NAT_HES	Funding of natural sciences from universities and higher education institutions.	Positive integer	
1 / 6	Funding of R&D costs: natural sciences – from foreign sources	RD_EXP_NAT_FOR	Funding of natural sciences from foreign sources.	Positive integer	
2 / 2	Funding of R&D costs: engineering	RD_EXP_ENG_G	Funding of engineering and technology sciences from state funds.	Positive integer	

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	and technology sciences – from state funds	OV			
2 / 3	Funding of R&D costs: engineering and technology sciences – from companies	RD_EXP_ENG_BES	Funding of engineering and technology sciences from companies.	Positive integer	
2 / 4	Funding of R&D costs: engineering and technology sciences – from non-profit private sector	RD_EXP_ENG_PNP	Funding of engineering and technology sciences from the non-profit private sector.	Positive integer	
2 / 5	Funding of R&D costs: engineering and technology sciences – from universities and higher education institutions	RD_EXP_ENG_HES	Funding of engineering and technology sciences from universities and higher education institutions.	Positive integer	
2 / 6	Funding of R&D costs: engineering and technology sciences – from foreign sources	RD_EXP_ENG_FOR	Funding of engineering and technology sciences from foreign sources.	Positive integer	
3 / 2	Funding of R&D costs: medical and health sciences – from state funds	RD_EXP_MED_GOV	Funding of medical and health sciences from state funds.	Positive integer	
3 / 3	Funding of R&D costs: medical and health sciences – from companies	RD_EXP_MED_BES	Funding of medical and health sciences from companies.	Positive integer	
3 / 4	Funding of R&D costs: medical and health sciences – from non-profit private sector	RD_EXP_MED_PNP	Funding of medical and health sciences from the non-profit private sector.	Positive integer	
3 / 5	Funding of R&D costs: medical and health sciences – from universities and higher education institutions	RD_EXP_MED_HES	Funding of medical and health sciences from universities and higher education institutions.	Positive integer	
3 / 6	Funding of R&D costs: medical and health sciences – from foreign sources	RD_EXP_MED_FOR	Funding of medical and health sciences from foreign sources.	Positive integer	
4 / 2	Funding of R&D costs: agricultural and veterinary sciences – from state funds	RD_EXP_AGR_GOV	Funding of agricultural and veterinary sciences from state funds.	Positive integer	
4 / 3	Funding of R&D costs: agricultural and veterinary sciences – from companies	RD_EXP_AGR_BES	Funding of agricultural and veterinary sciences from companies.	Positive integer	
4 / 4	Funding of R&D costs: agricultural and veterinary sciences – from non-profit private sector	RD_EXP_AGR_PNP	Funding of agricultural and veterinary sciences from the non-profit private sector.	Positive integer	
4 / 5	Funding of R&D costs: agricultural and veterinary sciences – from universities and higher education institutions	RD_EXP_AGR_HES	Funding of agricultural and veterinary sciences from universities and higher education institutions.	Positive integer	
4 / 6	Funding of R&D costs: agricultural	RD_EXP_AGR_F	Funding of agricultural and veterinary sciences from foreign sources.	Positive integer	

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	and veterinary sciences – from foreign sources	OR			
5 / 2	Funding of R&D costs: social sciences – from state funds	RD_EXP_SOC_GOV	Funding of social sciences from state funds.	Positive integer	
5 / 3	Funding of R&D costs: social sciences – from companies	RD_EXP_SOC_BES	Funding of social sciences from companies.	Positive integer	
5 / 4	Funding of R&D costs: social sciences – from non-profit private sector	RD_EXP_SOC_PNP	Funding of social sciences from non-profit private sector.	Positive integer	
5 / 5	Funding of R&D costs: social sciences – from universities and higher education institutions	RD_EXP_SOC_HES	Funding of social sciences from universities and higher education institutions.	Positive integer	
5 / 6	Funding of R&D costs: social sciences – from foreign sources	RD_EXP_SOC_FOR	Funding of social sciences from foreign sources.	Positive integer	
6 / 2	Funding of R&D costs: humanities and the arts – from state funds	RD_EXP_HUM_GOV	Funding of humanities and the arts from state funds.	Positive integer	
6 / 3	Funding of R&D costs: humanities and the arts – from companies	RD_EXP_HUM_BES	Funding of humanities and the arts from companies.	Positive integer	
6 / 4	Funding of R&D costs: humanities and the arts – from non-profit private sector	RD_EXP_HUM_PNP	Funding of humanities and the arts from the non-profit private sector.	Positive integer	
6 / 5	Funding of R&D costs: humanities and the arts – from universities and higher education institutions	RD_EXP_HUM_HES	Funding of humanities and the arts from universities and higher education institutions.	Positive integer	
6 / 6	Funding of R&D costs: humanities and the arts – from foreign sources	RD_EXP_HUM_FOR	Funding of humanities and the arts from foreign sources.	Positive integer	

**Table 7. COSTS ON RESEARCH AND DEVELOPMENT BY NATIONAL AND FOREIGN SOURCES OF FUNDING**

In detail, indicate the R&D costs funded from national or foreign sources. The total sums must correspond to those indicated in Table 6. Support from the EU, international organisations, foreign countries and non-governmental organisations of foreign countries granted through the state budget is considered support from the state, not from foreign sources.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Funding of R&D costs: state funds – from the budget of Ministry of Education and Research	RD_EXP_GOV17	R&D expenditure financed from the budget of the Ministry of Education and Research, incl. core funding, operating grants, investments, ETAG grants, wage subsidies for junior researchers.	Positive integer	
2 / 1	Funding of R&D costs: state funds – ministries (except Ministry of	RD_EXP_GOV18	R&D expenditure financed from the budgets of ministries (except the Ministry of Education and Research), publicly financed funds and foundations (except ETAG).	Positive integer	

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	(except Ministry of Education and Research), publicly financed funds, foundations				
3 / 1	Funding of R&D costs: state funds – from local government institutions	RD_EXP_GOV15	Rural municipalities/cities, municipality authorities – R&D costs funded by municipality authorities and their divisions.	Positive integer	
4 / 1	Funding of R&D costs: state funds – from own funds (public sector institutions)	RD_EXP_GOV16	R&D costs funded from the own funds of a public sector institution. Public sector institutions include state or local government institutions and units, the main activities of which do not include the production of goods or provision of services for sale, and which do not provide higher education service.	Positive integer	
7 / 1	Funding of R&D costs: foreign sources – from European Union research grants	RD_EXP_FOR11	R&D costs funded by research grants from the European Union.	Positive integer	
8 / 1	Funding of R&D costs: foreign sources – from companies	RD_EXP_FOR12	R&D costs which are funded by companies outside Estonia (incl. foreign parent or affiliate companies).	Positive integer	
9 / 1	Funding of R&D costs: foreign sources – from foreign funds and foundations	RD_EXP_FOR13	R&D costs funded by foreign funds and endowments.	Positive integer	
10 / 1	Funding of R&D costs: foreign sources – other	RD_EXP_FOR14	R&D costs funded from foreign sources not listed under variables RD_EXP_FOR11, RD_EXP_FOR12, RD_EXP_FOR13.	Positive integer	

**Table 8. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF COSTS, EUROS**

R&D costs by main cost items and types of investment regardless of the source of funding.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
2 / 1	R&D costs in organisation – labour costs	RD_EXP_LAB_IN S	Labour costs – wages and salaries, holiday pay, scholarships, social fund payments. NB! Indicate the labour costs of employees directly related to R&D, incl. labour costs of master's and doctoral students engaged in R&D. Labour costs of employees not directly engaged in R&D (security service, cleaning and maintenance personnel, etc.) are indicated among other current costs.	Positive integer	
3 / 1	R&D costs in organisation – other current costs	RD_EXP_CUR_OTH	Other current costs – lease and rent of buildings and/or premises, fees for electricity, water and heating, expenditure on the purchase of smaller equipment, instruments, materials and other current assets, business travels, repairs, communication services, etc. Depreciation costs are not included in the R&D costs. Also indicate the labour costs of persons not directly involved in R&D (security service, cleaning and maintenance personnel, etc.), if their activities were related to the premises or equipment used for R&D.	Positive integer	
4 / 1	R&D costs in organisation – acquisition, construction and capital repairs of buildings and facilities	RD_EXP_BUI_IN S	R&D costs (investments) for the acquisition, building and capital repairs of buildings and facilities (incl. for reconstruction or extension), also for the acquisition of land.	Positive integer	
5 / 1	R&D costs in organisation – equipment, apparatus, machinery,	RD_EXP_EQU_IN S	R&D costs (investments) for the acquisition of equipment, apparatus, machinery, inventory and means of transport (capitalised costs in acquisition cost, incl. reconstruction expenses), also for the creation of basic libraries or information banks.	Positive integer	

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	inventory and means of transport				
6 / 1	R&D costs in organisation – other investments	RD_EXP_INV_IN S	Other investments, incl. investments in intangible fixed assets (patents, licences, obtained and created special software, etc.).	Positive integer	

**Table 9. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF ACTIVITY BASED ON FIELDS OF APPLICATION, EUROS**

R&D costs by the nature of research and scientific areas. See examples from the guide “Determining the type of research and development”

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 2	R&D costs by type of R&D: natural sciences – basic research	RD_EXP_NAT_B AS	R&D costs on basic research in the area of natural sciences.	Positive integer	
1 / 3	R&D costs by type of R&D: natural sciences – applied research	RD_EXP_NAT_A PP	R&D costs on applied research in the area of natural sciences.	Positive integer	
1 / 4	R&D costs by type of R&D: natural sciences – experimental development works	RD_EXP_NAT_E XW	R&D costs on experimental development works in the area of natural sciences.	Positive integer	
2 / 2	R&D costs by type of R&D: engineering and technology sciences – basic research	RD_EXP_ENG_B AS	R&D expenditures on basic research in the field of engineering and technology sciences.	Positive integer	
2 / 3	R&D costs by type of R&D: engineering and technology sciences – applied research	RD_EXP_ENG_A PP	R&D expenditures on applied research in the field of engineering and technology sciences.	Positive integer	
2 / 4	R&D costs by type of R&D: engineering and technology sciences – experimental development	RD_EXP_ENG_E XW	R&D expenditures on experimental development in the field of engineering and technology sciences.	Positive integer	
3 / 2	R&D costs by type of R&D: medical and health sciences – basic research	RD_EXP_MED_B AS	R&D expenditures on basic research in the field of medical and health sciences.	Positive integer	
3 / 3	R&D costs by type of R&D: medical and health sciences – applied research	RD_EXP_MED_A PP	R&D expenditures on applied research in the field of medical and health sciences.	Positive integer	
3 / 4	R&D costs by type of R&D: medical and health sciences – experimental development	RD_EXP_MED_E XW	R&D expenditures on experimental development in the field of medical and health sciences.	Positive integer	
4 / 2	R&D costs by type of R&D: agricultural and veterinary sciences – basic research	RD_EXP_AGR_B AS	R&D expenditures on basic research in the field of agricultural and veterinary sciences.	Positive integer	

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4 / 3	R&D costs by type of R&D: agricultural and veterinary sciences – applied research	RD_EXP_AGR_APP	R&D expenditures on applied research in the field of agricultural and veterinary sciences.	Positive integer	
4 / 4	R&D costs by type of R&D: agricultural and veterinary sciences – experimental development	RD_EXP_AGR_EXW	R&D expenditures on experimental development in the field of agricultural and veterinary sciences.	Positive integer	
5 / 2	R&D costs by type of R&D: social sciences – basic research	RD_EXP_SOC_BAS	R&D costs on basic research in the area of social sciences.	Positive integer	
5 / 3	R&D costs by type of R&D: social sciences – applied research	RD_EXP_SOC_APP	R&D costs on applied research in the area of social sciences.	Positive integer	
5 / 4	R&D costs by type of R&D: social sciences – experimental development works	RD_EXP_SOC_EXW	R&D costs on experimental development works in the area of social sciences.	Positive integer	
6 / 2	R&D costs by type of R&D: humanities and the arts – basic research	RD_EXP_HUM_BAS	R&D expenditures on basic research in the field of humanities and the arts.	Positive integer	
6 / 3	R&D costs by type of R&D: humanities and the arts – applied research	RD_EXP_HUM_APP	R&D expenditures on applied research in the field of humanities and the arts.	Positive integer	
6 / 4	R&D costs by type of R&D: humanities and the arts – experimental development	RD_EXP_HUM_EXW	R&D expenditures on experimental development in the field of humanities and the arts.	Positive integer	

**Table 10. COSTS ON RESEARCH AND DEVELOPMENT BY FIELDS OF APPLICATION, EUROS**

R&D costs are divided by fields of application, separating the activities funded by state resources, and keeping in mind the purpose of the funding of the survey. Field of application is not determined (row 13) for surveys which are conducted for increasing knowledge, but which cannot be connected with a specific application, and for which the field of application was also not determined when funds were allocated.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	R&D costs by fields of application: total – agriculture, forestry, fishing	RD_NAB_S08	R&D costs in the field of agriculture, forestry and fishing.	Positive integer	
1 / 2	R&D costs by fields of application: from state funds – agriculture, forestry, fishing	RD_NAB_S08_GOV	R&D costs funded by state funds in the field of agriculture, forestry and fishing.	Positive integer	
2 / 1	R&D costs by fields of application: total – industrial production and	RD_NAB_S06	R&D costs in the field of industrial production and technology.	Positive integer	

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	technology				
2 / 2	R&D costs by fields of application: from state funds – industrial production and technology	RD_NAB S06_GO V	R&D costs funded by state funds in the field of industrial production and technology.	Positive integer	
3 / 1	R&D costs by fields of application: total – generation, distribution and rational use of energy	RD_NAB S05	R&D costs in the field of generation, distribution and rational use of energy.	Positive integer	
3 / 2	R&D costs by fields of application: from state funds – generation, distribution and rational use of energy	RD_NAB S05_GO V	R&D costs funded by state funds in the field of generation, distribution and rational use of energy.	Positive integer	
4 / 1	R&D costs by fields of application: total – transport, telecommunication and other infrastructures	RD_NAB S04	R&D costs in the field of transport, telecommunication and other infrastructures.	Positive integer	
4 / 2	R&D costs by fields of application: from state funds – transport, telecommunication and other infrastructures	RD_NAB S04_GO V	R&D costs funded by state funds in the field of transport, telecommunication and other infrastructures.	Positive integer	
5 / 1	R&D costs by fields of application: total – protection of the environment	RD_NAB S02	R&D costs in the field of the protection of the environment.	Positive integer	
5 / 2	R&D costs by fields of application: from state funds – protection of the environment	RD_NAB S02_GO V	Total R&D costs funded by state funds in the field of the protection of the environment.	Positive integer	
6 / 1	R&D costs by fields of application: total – health sciences	RD_NAB S07	R&D costs in the field of health sciences.	Positive integer	
6 / 2	R&D costs by fields of application: from state funds – health sciences	RD_NAB S07_GO V	R&D costs funded by state funds in the field of health sciences.	Positive integer	
7 / 1	R&D costs by fields of application: total – culture, spare time, religion and media	RD_NAB S10	R&D costs in the field of culture, spare time, religion and media.	Positive integer	
7 / 2	R&D costs by fields of application: from state funds – culture, spare time, religion and media	RD_NAB S10_GO V	R&D costs funded by state funds in the field of culture, spare time, religion and media.	Positive integer	
8 / 1	R&D costs by fields of application: total – education	RD_NAB S09	R&D costs in the field of education.	Positive integer	
8 / 2	R&D costs by	RD_NAB	R&D costs funded by state funds in the field of education.	Positive	

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	fields of application: from state funds – education	S09_GO V		integer	
9 / 1	R&D costs by fields of application: total – political and social systems, structures and processes	RD_NAB S11	R&D costs in the field of political and social systems, structures and processes.	Positive integer	
9 / 2	R&D costs by fields of application: from state funds – political and social systems, structures and processes	RD_NAB S11_GO V	R&D costs funded by state funds in the field of political and social systems, structures and processes.	Positive integer	
10 / 1	R&D costs by fields of application: total – studies and use of earth's crust, hydrosphere and atmosphere	RD_NAB S01	R&D costs in the field of the studies and use of earth's crust, hydrosphere and atmosphere.	Positive integer	
10 / 2	R&D costs by fields of application: from state funds – studies and use of earth's crust, hydrosphere and atmosphere	RD_NAB S01_GO V	R&D costs funded by state funds in the field of the studies and use of earth's crust, hydrosphere and atmosphere.	Positive integer	
11 / 1	R&D costs by fields of application: total – space exploration and capture	RD_NAB S03	R&D costs in the field of space exploration and capture.	Positive integer	
11 / 2	R&D costs by fields of application: from state funds – space exploration and capture	RD_NAB S03_GO V	R&D costs funded by state funds in the field of space exploration and capture.	Positive integer	
12 / 1	R&D costs by fields of application: total – national defence	RD_NAB S14	R&D costs in the field of national defence.	Positive integer	
12 / 2	R&D costs by fields of application: from state funds – national defence	RD_NAB S14_GO V	R&D costs funded by state funds in the field of national defence.	Positive integer	
13 / 1	R&D costs by fields of application: total – application not specified	RD_NAB S13	R&D costs in the field of application not specified.	Positive integer	
13 / 2	R&D costs by fields of application: from state funds – application not specified	RD_NAB S13_GO V	R&D costs funded by state funds in the field of application not specified.	Positive integer	

**Table 11. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)**

Please estimate how much time you spent on filling out the questionnaire (incl. time spent on reading the instructions, collecting and preparing data). Record the total time spent by all employees.

Row code/	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of	You need not fill in
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code/ column code	* - mandatory	variable		(number of decimals) or list/ classification name	not fill in the value: period, economic activity
/		TAITMIS EAEGTU NDI	Number of hours spent by all employees on completing the questionnaire. The time spent on completing the questionnaire includes the time spent on reviewing instructions, collecting and preparing the necessary data.	Positive integer	
/		TAITMIS EAEGMI NUTIT	Number of minutes spent by all employees on completing the questionnaire. The time spent on completing the questionnaire includes the time spent on reviewing instructions, collecting and preparing data. Permitted value range 0–59.	Positive integer	

**Table Y2. Overall assessment on the questionnaire**

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
/	Overall assessment on the ease of completing the questionnaire	TAGASI SY_1		rahulolu_v ga_lihtne_v aga_keeruli ne_5L	

**Table Y3. Suggestions and comments**

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
/	Suggestions and comments	TAGASI S_TESS T		Text	