

## Controls and autosums in questionnaire: Research and development (R&D)

Code of the questionnaire: 11332022  
Periodicity: Annual

Is submitted: 1.03.2022, data about 2021

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A field with a grey background has been automatically filled online. The data in this field cannot be changed, they are visible after saving.  
If the data you entered are inconsistent internally or with the prefilled data, an error message appears upon checking. If errors (warnings) appear, check the data carefully and make corrections.  
In the case of warnings (if you are sure that the data you entered are correct), click on "Confirm warnings" button and confirm the questionnaire.

Mandatory fields in the questionnaire are marked with a red asterisk.

### CONTROLS

#### Controls in table 1. NUMBER OF PERSONS EMPLOYED AT THE END OF THE REFERENCE YEAR

Control ID	Control formula	Clarification	Type of error
25314	{RD_EMPL_M}>={RD_PER_M}	Inconsistent data. Check the validity: number of men employed (Table 1 column 1 row 01) is larger than/equal to the number of male employees engaged in R&D (Table 1 column 2 row 01).	Error
25315	{RD_EMPL_F}>={RD_PER_F}	Inconsistent data. Check the validity: number of women employed (Table 1 column 1 row 02) is larger than/equal to the number of female employees engaged in R&D (Table 1 column 2 row 02).	Error
27295	{RD_PER_F}+{RD_PER_M}>0	Number of persons employed in R&D is not filled in. In the case of museums, R&D means studying various historical sources (manuscripts, documents, monuments, pieces of art, buildings, etc.) to gain a better understanding of historical phenomena. R&D also covers creating museum displays on the basis of the studied materials	Warning

#### Controls in table 4. SCIENTISTS AND ENGINEERS BY SCIENTIFIC AREAS AT THE END OF THE REFERENCE YEAR

Control ID	Control formula	Clarification	Type of error
24654	{RD_RESM_NAT_DEG}>={RD_RESM_NAT_DOC}+{RD_RESM_NAT_MAG}	Calculation error. Number of male scientists and engineers in the area of natural sciences (column 1 row 01) >= the sum of male scientists and engineers with doctoral degree (column 3 row 01) and the number of male scientists and engineers with master's degree (column 5 row 01) in the area of natural sciences.	Error
24655	{RD_RESF_NAT_DEG}>={RD_RESF_NAT_DOC}+{RD_RESF_NAT_MAG}	Calculation error. Number of female scientists and engineers in the area of natural sciences (column 2 row 01) >= the sum of female scientists and engineers with doctoral degree (column 4 row 01) and the number of female scientists and engineers with master's degree (column 6 row 01) in the area of natural sciences.	Error
24656	{RD_RESM_ENG_DEG}>={RD_RESM_ENG_DOC}+{RD_RESM_ENG_MAG}	Calculation error. Number of male scientists and engineers in the area of engineering sciences (column 1 row 02) >= the sum of male scientists and engineers with doctoral degree (column 3 row 02) and the number of male scientists and engineers with master's degree (column 5 row 02) in the area of engineering sciences.	Error
24657	{RD_RESF_ENG_DEG}>={RD_RESF_ENG_DOC}+{RD_RESF_ENG_MAG}	Calculation error. Number of female scientists and engineers in the area of engineering sciences (column 2 row 02) >= the sum of female scientists and engineers with doctoral degree (column 4 row 02) and the number of female scientists and engineers with master's degree (column 6 row 02) in the area of engineering sciences.	Error

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	RESF_ENG_MAG}	row 02) >= the sum of female scientists and engineers with doctoral degree (column 4 row 02) and the number of female scientists and engineers with master's degree (column 6 row 02) in the area of engineering sciences.	
24658	{RD_RESM_MED_DEG}>={RD_RESM_MED_DOC}+{RD_RESM_MED_MAG}	Calculation error. Number of male scientists and engineers in the area of medical science (column 1 row 03) >= the sum of male scientists and engineers with doctoral degree (column 3 row 03) and the number of male scientists and engineers with master's degree (column 5 row 03) in the area of medical science.	Error
24659	{RD_RESF_MED_DEG}>={RD_RESF_MED_DOC}+{RD_RESF_MED_MAG}	Calculation error. Number of female scientists and engineers in the area of medical science (column 2 row 03) >= the sum of female scientists and engineers with doctoral degree (column 4 row 03) and the number of female scientists and engineers with master's degree (column 6 row 03) in the area of medical science.	Error
24660	{RD_RESM_AGR_DEG}>={RD_RESM_AGR_DOC}+{RD_RESM_AGR_MAG}	Calculation error. Number of male scientists and engineers in the area of agricultural sciences (column 1 row 04) >= the sum of male scientists and engineers with doctoral degree (column 3 row 04) and the number of male scientists and engineers with master's degree (column 5 row 04) in the area of agricultural sciences.	Error
24661	{RD_RESF_AGR_DEG}>={RD_RESF_AGR_DOC}+{RD_RESF_AGR_MAG}	Calculation error. Number of female scientists and engineers in the area of agricultural sciences (column 2 row 04) >= the sum of female scientists and engineers with doctoral degree (column 4 row 04) and the number of female scientists and engineers with master's degree (column 6 row 04) in the area of agricultural sciences.	Error
24662	{RD_RESM_SOC_DEG}>={RD_RESM_SOC_DOC}+{RD_RESM_SOC_MAG}	Calculation error. Number of male scientists and engineers in the area of social sciences (column 1 row 05) >= the sum of male scientists and engineers with doctoral degree (column 3 row 05) and the number of male scientists and engineers with master's degree (column 5 row 05) in the area of social sciences.	Error
24663	{RD_RESF_SOC_DEG}>={RD_RESF_SOC_DOC}+{RD_RESF_SOC_MAG}	Calculation error. Number of female scientists and engineers in the area of social sciences (column 2 row 05) >= the sum of female scientists and engineers with doctoral degree (column 4 row 05) and the number of female scientists and engineers with master's degree (column 6 row 05) in the area of social sciences.	Error
24664	{RD_RESM_HUM_DEG}>={RD_RESM_HUM_DOC}+{RD_RESM_HUM_MAG}	Calculation error. Number of male scientists and engineers in the area of humanities (column 1 row 06) >= the sum of male scientists and engineers with doctoral degree (column 3 row 06) and the number of male scientists and engineers with master's degree (column 5 row 06) in the area of humanities.	Error
24665	{RD_RESF_HUM_DEG}>={RD_RESF_HUM_DOC}+{RD_RESF_HUM_MAG}	Calculation error. Number of female scientists and engineers in the area of humanities (column 2 row 06) >= the sum of female scientists and engineers with doctoral degree (column 4 row 06) and the number of female scientists and engineers with master's degree (column 6 row 06) in the area of humanities.	Error

### Controls in table 5. SCIENTISTS AND ENGINEERS WITH FOREIGN CITIZENSHIP BY SEX

Control ID	Control formula	Clarification	Type of error
23033	((RD_ISO_FOR)!=NULL JA {RD_RESM_FOR}+{RD_RESF_FOR}>0)) VÕI {RD_ISO_FOR}=NULL JA {RD_RESM_FOR}+{RD_RESF_FOR}=0))	Empty field. If the official name and code of the country of citizenship of a scientist or engineer with foreign citizenship (Table 5 column 1) is indicated, the number of male and female scientists and engineers with foreign citizenship (Table 5 column 2 and column 3) must also be indicated.	Error

### Controls in table 8. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF COSTS, EUROS

Control ID	Control formula	Clarification	Type of error
18751	{RD_EXP_COS_INS}={RD_EXP_LAB_INS}+{RD_EXP_CUR_OTH}+{RD_EXP_BUI_INS}+{RD_EXP_EQU_INS}+{RD_EXP_INV_INS}	Total costs by type in Table 8 column 1 must be equal to the sum of columns 2, 3, 4 and 5.	Error

### Controls in table 10. COSTS ON RESEARCH AND DEVELOPMENT BY FIELDS OF APPLICATION, EUROS

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Control ID	Control formula	Clarification	Type of error
20026	{RD_NABS99}={RD_NABS08}+{RD_NABS06}+{RD_NABS05}+{RD_NABS04}+{RD_NABS02}+{RD_NABS07}+{RD_NABS10}+{RD_NABS09}+{RD_NABS11}+{RD_NABS01}+{RD_NABS03}+{RD_NABS14}+{RD_NABS13}	Calculation error. Check the validity: total R&D costs in the fields of applications (Table 10 column 1 row 14) = K_14 (Table 10 column 1 row K_14)	Error
20027	{RD_NABS99_GOV}={RD_NABS08_GOV}+{RD_NABS06_GOV}+{RD_NABS05_GOV}+{RD_NABS04_GOV}+{RD_NABS02_GOV}+{RD_NABS07_GOV}+{RD_NABS10_GOV}+{RD_NABS09_GOV}+{RD_NABS11_GOV}+{RD_NABS01_GOV}+{RD_NABS03_GOV}+{RD_NABS14_GOV}+{RD_NABS13_GOV}	Calculation error. Check the validity: total R&D costs funded by state funds in the fields of applications (Table 10 column 2 row 14) = K_14 (Table 10 column 2 row K_14).	Error

### Controls in table 11. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)

Control ID	Control formula	Clarification	Type of error
20296	{TAITMISEAEGMINUTIT}<=59	Maximum permitted value is 59 minutes. Time exceeding 60 minutes shall be indicated in hours and minutes.	Error
20297	{TAITMISEAEGTUNDI}+{TAITMISEAEGMINUTIT}>0	The time spent on filling in the questionnaire must be recorded and the sum of hours and minutes must be more than 0. The time spent means time spent by all employees to read questionnaire instructions, collect and prepare data and fill in the questionnaire.	Error
20298	{TAITMISEAEGTUNDI}<=999	Maximum permitted value is 999 hours.	Error

### Controls across tables

Control ID	Control formula	Clarification	Type of error
2243	{RD_PER_M}={RD_RESM_NAT}+{RD_RESM_ENG}+{RD_RESM_MED}+{RD_RESM_AGR}+{RD_RESM_SOC}+{RD_RESM_HUM}+{RD_TECM_NAT}+{RD_TECM_ENG}+{RD_TECM_MED}+{RD_TECM_AGR}+{RD_TECM_SOC}+{RD_TECM_HUM}+{RD_SUPM_SCF}	Calculation error. Check the validity: total number of male scientists and engineers, male technicians and male assistant personnel in scientific areas (Table 1.1 rows 01+03+05) = number of male employees engaged in R&D (Table 1 column 2 row 01).	Error
2244	{RD_PER_F}={RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}+{RD_TECF_NAT}+{RD_TECF_ENG}+{RD_TECF_MED}+{RD_TECF_AGR}+{RD_TECF_SOC}+{RD_TECF_HUM}+{RD_SUPF_SCF}	Calculation error. Check the validity: total number of female scientists and engineers, female technicians and female assistant personnel in scientific areas (Table 1.1 rows 02+04+06) = number of female employees engaged in R&D (Table 1 column 2 row 02).	Error
2245	{RD_RESM_DOC}+{RD_RESM_MAG}+{RD_RESM_ACE}+{RD_RESM_PRE}={RD_RESM_NAT}+{RD_RESM_ENG}+{RD_RESM_MED}+{RD_RESM_AGR}+{RD_RESM_SOC}+{RD_RESM_HUM}	Calculation error. Check the validity: number of male scientists and engineers by level of education (Table 2 column 1 row 08) = total number of male scientists and engineers in scientific areas (Table 1.1 column 7 row 01).	Error
2246	{RD_RESF_DOC}+{RD_RESF_MAG}+{RD_RESF_ACE}+{RD_RESF_PRE}={RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}	Calculation error. Check the validity: number of female scientists and engineers by level of education (Table 2 column 2 row 08) = total number of female scientists and engineers in scientific areas (Table 1.1 column 7 row 02).	Error
2247	{RD_TECM_DOC}+{RD_TECM_MAG}+{RD_TECM_ACE}+{RD_TECM_PRE}+{RD_TECM_PRS}+{RD_TECM_SEC}+{RD_TECM_NOS}={RD_TECM_NAT}+{RD_TECM_ENG}+{RD_TECM_MED}+{RD_TECM_AGR}+{RD_TECM_S	Calculation error. Check the validity: number of male technicians by level of education (Table 2 column 3 row 08) = total number of male technicians in scientific areas (Table 1.1 column 7 row 03).	Error

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	{OC}+{RD_TECM_HUM}		
2248	{RD_TECF_DOC}+{RD_TECF_MAG}+{RD_TECF_ACE}+{RD_TECF_PRE}+{RD_TECF_PRS}+{RD_TECF_SEC}+{RD_TECF_NOS}={RD_TECF_NAT}+{RD_TECF_ENG}+{RD_TECF_MED}+{RD_TECF_AGR}+{RD_TECF_SOC}+{RD_TECF_HUM}	Calculation error. Check the validity: number of female technicians by level of education (Table 2 column 4 row 08) = total number of female technicians in scientific areas (Table 1.1 column 7 row 04).	Error
2249	{RD_SUPM_DOC}+{RD_SUPM_MAG}+{RD_SUPM_ACE}+{RD_SUPM_PRE}+{RD_SUPM_PRS}+{RD_SUPM_SEC}+{RD_SUPM_NOS}={RD_SUPM_SCF}	Calculation error. Check the validity: number of male assistant personnel by level of education (Table 2 column 5 row 08) = total number of male assistant personnel in scientific areas (Table 1.1 column 7 row 05).	Error
2250	{RD_SUPF_DOC}+{RD_SUPF_MAG}+{RD_SUPF_ACE}+{RD_SUPF_PRE}+{RD_SUPF_PRS}+{RD_SUPF_SEC}+{RD_SUPF_NOS}={RD_SUPF_SCF}	Calculation error. Check the validity: number of female assistant personnel by level of education (Table 2 column 6 row 08) = total number of female assistant personnel in scientific areas (Table 1.1 column 7 row 06).	Error
2251	{RD_RESM_AGE1}+{RD_RESM_AGE2}+{RD_RESM_AGE3}+{RD_RESM_AGE4}+{RD_RESM_AGE5}+{RD_RESM_AGE6}={RD_RESM_NAT}+{RD_RESM_ENG}+{RD_RESM_MED}+{RD_RESM_AGR}+{RD_RESM_SOC}+{RD_RESM_HUM}	Calculation error. Check the validity: total number of male scientists and engineers by age (Table 3 column 1 row 01) = total number of male scientists and engineers in scientific areas (Table 1.1 column 7 row 01).	Error
2252	{RD_RESF_AGE1}+{RD_RESF_AGE2}+{RD_RESF_AGE3}+{RD_RESF_AGE4}+{RD_RESF_AGE5}+{RD_RESF_AGE6}={RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}	Calculation error. Check the validity: number of female scientists and engineers by age (Table 3 column 1 row 02) = total number of female scientists and engineers in scientific areas (Table 1.1 column 7 row 02).	Error
2265	{RD_RESM_NAT_DEG}+{RD_RESM_ENG_DEG}+{RD_RESM_MED_DEG}+{RD_RESM_AGR_DEG}+{RD_RESM_SOC_DEG}+{RD_RESM_HUM_DEG}={RD_RESM_NAT}+{RD_RESM_ENG}+{RD_RESM_MED}+{RD_RESM_AGR}+{RD_RESM_SOC}+{RD_RESM_HUM}	Calculation error. Check the validity: number of male scientists and engineers by scientific area (Table 4 column 1 row 07) = total number of male scientists and engineers in scientific areas (Table 1.1 column 7 row 01).	Error
2266	{RD_RESF_NAT_DEG}+{RD_RESF_ENG_DEG}+{RD_RESF_MED_DEG}+{RD_RESF_AGR_DEG}+{RD_RESF_SOC_DEG}+{RD_RESF_HUM_DEG}={RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}	Calculation error. Check the validity: number of female scientists and engineers by scientific area (Table 2 column 2 row 07) = total number of female scientists and engineers in scientific areas (Table 1.1 column 7 row 02).	Error
2279	{RD_EXP_GOV1}+{RD_EXP_GOV2}+{RD_EXP_GOV3}+{RD_EXP_GOV4}+{RD_EXP_GOV5}+{RD_EXP_GOV6}={RD_EXP_NAT_GOV}+{RD_EXP_ENG_GOV}+{RD_EXP_MED_GOV}+{RD_EXP_AGR_GOV}+{RD_EXP_SOC_GOV}+{RD_EXP_HUM_GOV}	Calculation error. Check the validity: total R&D costs funded from state funds (Table 7 row 07) = total funding of scientific areas from state funds (Table 6 column 2 row 07).	Error
2281	{RD_EXP_NAT_BAS}+{RD_EXP_NAT_APP}+{RD_EXP_NAT_EXW}={RD_EXP_NAT_GOV}+{RD_EXP_NAT_BES}+{RD_EXP_NAT_PNP}+{RD_EXP_NAT_HES}+{RD_EXP_NAT_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of natural sciences (Table 9 column 1 row 01) = total funding of natural sciences (Table 6 column 1 row 01).	Error
2282	{RD_EXP_ENG_BAS}+{RD_EXP_ENG_APP}+{RD_EXP_ENG_EXW}={RD_EXP_ENG_GOV}+{RD_EXP_ENG_BES}+{RD_EXP_ENG_PNP}+{RD_EXP_ENG_HES}+{RD_EXP_ENG_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of engineering sciences (Table 9 column 1 row 02) = total funding of engineering sciences (Table 6 column 1 row 02).	Error
2283	{RD_EXP_MED_BAS}+{RD_EXP_MED_APP}+{RD_EXP_MED_EXW}={RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of medical science (Table 9 column 1 row 03) = total funding of medical science (Table 6 column 1 row 03).	Error
2284	{RD_EXP_AGR_BAS}+{RD_EXP_AGR_APP}+{RD_EXP_AGR_EXW}={RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of agricultural sciences	Error

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	AGR_EXW)={RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}	(Table 9 column 1 row 04) = total funding of agricultural sciences (Table 6 column 1 row 04).	
2285	{RD_EXP_SOC_BAS}+{RD_EXP_SOC_APP}+{RD_EXP_SOC_EXW)={RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of social sciences (Table 9 column 1 row 05) = total funding of social sciences (Table 6 column 1 row 05).	Error
2286	{RD_EXP_HUM_BAS}+{RD_EXP_HUM_APP}+{RD_EXP_HUM_EXW)={RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	Calculation error. Check the validity: total R&D costs by type of R&D in the area of humanities (Table 9 column 1 row 06) = total funding of humanities (Table 6 column 1 row 06).	Error
18640	{RD_RESM_NAT_DOC}+{RD_RESM_ENG_DOC}+{RD_RESM_MED_DOC}+{RD_RESM_AGR_DOC}+{RD_RESM_SOC_DOC}+{RD_RESM_HUM_DOC}={RD_RESM_DOC}	Calculation error. Check the validity: number of male scientists and engineers with doctoral degree (Table 2 column 1 row 01) = total number of male scientists and engineers with doctoral degree by a scientific area (Table 4 column 3 row 07).	Error
18641	{RD_RESF_NAT_DOC}+{RD_RESF_ENG_DOC}+{RD_RESF_MED_DOC}+{RD_RESF_AGR_DOC}+{RD_RESF_SOC_DOC}+{RD_RESF_HUM_DOC}={RD_RESF_DOC}	Calculation error. Check the validity: number of female scientists and engineers with doctoral degree (Table 2 column 2 row 01) = total number of female scientists and engineers with doctoral degree by a scientific area (Table 4 column 4 row 07).	Error
18642	{RD_RESM_NAT_MAG}+{RD_RESM_ENG_MAG}+{RD_RESM_MED_MAG}+{RD_RESM_AGR_MAG}+{RD_RESM_SOC_MAG}+{RD_RESM_HUM_MAG}={RD_RESM_MAG}	Calculation error. Check the validity: number of male scientists and engineers with master's degree (Table 2 column 1 row 02) = total number of male scientists and engineers with master's degree by a scientific area (Table 4 column 5 row 07).	Error
18643	{RD_RESF_NAT_MAG}+{RD_RESF_ENG_MAG}+{RD_RESF_MED_MAG}+{RD_RESF_AGR_MAG}+{RD_RESF_SOC_MAG}+{RD_RESF_HUM_MAG}={RD_RESF_MAG}	Calculation error. Check the validity: number of female scientists and engineers with master's degree (Table 2 column 2 row 02) = total number of female scientists and engineers with master's degree by a scientific area (Table 4 column 4 row 07).	Error
18752	{RD_EXP_SCF_FIN}={RD_EXP_SCI_ACT}	Calculation error. Check the validity: total funding of scientific areas (Table 6 column 1 row 07) = total R&D costs by type of R&D and scientific area (Table 9 column 1 row 07).	Error
18753	{RD_NABS99}={RD_NABS08}+{RD_NABS06}+{RD_NABS05}+{RD_NABS04}+{RD_NABS02}+{RD_NABS07}+{RD_NABS10}+{RD_NABS09}+{RD_NABS11}+{RD_NABS01}+{RD_NABS03}+{RD_NABS14}+{RD_NABS13}	Table 10 row 14 must be equal to the sum of rows 01–13.	Error
18754	{RD_NABS99_GOV}={RD_NABS08_GOV}+{RD_NABS06_GOV}+{RD_NABS05_GOV}+{RD_NABS04_GOV}+{RD_NABS02_GOV}+{RD_NABS07_GOV}+{RD_NABS10_GOV}+{RD_NABS09_GOV}+{RD_NABS11_GOV}+{RD_NABS01_GOV}+{RD_NABS03_GOV}+{RD_NABS14_GOV}+{RD_NABS13_GOV}	Table 10 row 14 must be equal to the sum of rows 01–13.	Error
20036	KUI ((RD_PER_M)>0), SIIS ((RD_RESM_SCF)+{RD_TECM_SCF}+{RD_SUPM_SCF})>0) JA ((RD_RESM_FTE_SCF)+{RD_TECMF_FTE_SCF}+{RD_SUPMF_FTE_SCF})>0)	Empty field. If the number of male employees engaged in R&D (Table 1 column 2 row 01) has been filled in, also fill in the total number of male scientists and engineers in scientific areas (Table 1.1 column 7 row 01) and/or total number of male technicians in scientific areas (Table 1.1 column 7 row 03) and/or total number of male assistant personnel in scientific areas (Table 1.1 column 7 row 05) and total working time spent on R&D (Table 1.2 column 7 row 01 and/or row 03 and/or row 04)	Warning
20037	KUI ((RD_PER_F)>0), SIIS ((RD_RESF_SCF)+{RD_TECF_SCF}+{RD_SUPF_SCF})>0) JA ((RD_RESF_FTE_SCF)+{RD_TECMF_FTE_SCF}+{RD_SUPMF_FTE_SCF})>0)	Empty field. If the number of female employees engaged in R&D (Table 1 column 2 row 02) has been filled in, also fill in the total number of female scientists and engineers in scientific areas (Table 1.1 column 7 row 02) and/or total number of female technicians in scientific areas (Table 1.1 column 7 row 04) and/or total number of female assistant personnel in scientific areas (Table 1.1 column 7 row 06) and the total working time spent on R&D (Table 1.2 column 7 row 02 and/or row 03 and/or row 04)	Warning
20605	KUI((RD_PER_M)+{RD_PER_F})>0), SIIS((RD_EXP_LAB_INS)+{RD_EXP_CUR_OTH}+{RD_EXP_BUI_INS}+{RD_EXP_EQU_INS}+{RD_EXP_INV_INS})	Empty field. If the number of male employees engaged in R&D (Table 2 column 2 row 01) or the number of female employees engaged in R&D (Table 1 column 2 row 02) are indicated, total R&D costs must also be indicated – current costs and investments (Table 8).	Warning



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	>0)		
20607	((RD_TECM_SCF)+(RD_TECF_SCF)>0 JA {RD_TECMF_FTE_SCF}>0) VÕI ((RD_TECM_SCF)+(RD_TECF_SCF)=0 JA {RD_TECMF_FTE_SCF}=0)	Empty field. If the number of technicians engaged in R&D (Table 1.1 column 7 rows 03–04) is indicated, the working time of technicians spent on R&D in scientific areas (Table 1.2 column 7 row 03) must also be indicated, and vice versa.	Warning
20812	{RD_EXP_FOR11}+{RD_EXP_FOR12}+{RD_EXP_FOR13} +{RD_EXP_FOR14}={RD_EXP_NAT_FOR}+{RD_EXP_ENG_FOR} +{RD_EXP_MED_FOR}+{RD_EXP_AGR_FOR} +{RD_EXP_SOC_FOR}+{RD_EXP_HUM_FOR}	Inconsistent data. Check the validity: funding of scientific areas from foreign sources (Table 6 column 6 row 07) must be equal to the total R&D costs funded from foreign sources (Table 7 row 12).	Error
23509	KUI ({RD_PER_M}=0), SIIS ({RD_RESM_SCF}+{RD_TECM_SCF}+{RD_SUPM_SCF} +{RD_RESF_FTE_SCF}=0)	Inconsistent data. If there were no male employees engaged in R&D (Table 1 column 2 row 01), the fields regarding the total number of male scientists and engineers in scientific areas (Table 1.1 column 7 row 01), the total number of male technicians in scientific areas (Table 1.1 column 7 row 03), the total number of male assistant personnel in scientific areas (Table 1.1 column 7 row 05) and the total working time of male scientists and engineers spent on R&D in scientific areas (Table 1.2 column 7 row 01) remain empty.	Warning
23510	KUI ({RD_PER_F}=0), SIIS ({RD_RESF_SCF}+{RD_TECF_SCF}+{RD_SUPF_SCF}+{ RD_RESF_FTE_SCF}=0)	Inconsistent data. If there were no female employees engaged in R&D (Table 1 column 2 row 02), the fields regarding the total number of female scientists and engineers in scientific areas (Table 1.1 column 7 row 02), the total number of female technicians in scientific areas (Table 1.1 column 7 row 04), the total number of female assistant personnel in scientific areas (Table 1.1 column 7 row 06) and the total working time of female scientists and engineers spent on R&D in scientific areas (Table 1.2 column 7 row 02) remain empty.	Warning

## AUTOSUMS

### Autosums in table 1. NUMBER OF PERSONS EMPLOYED AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Total	Number of persons employed	{RD_EMPL_M}+{RD_EMPL_F}	

### Autosums in table 1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY SCIENTIFIC AREAS AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Scientists and engineers, men	Total	{RD_RESM_NAT}+{RD_RESM_ENG}+{RD_RESM_MED}+{RD_RESM_AGR}+{RD_RESM_SOC}+{RD_RESM_HUM}	Sum of columns 1–6. Summed automatically if filled in online.
Scientists and engineers, women	Total	{RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}	Sum of columns 1–6. Summed automatically if filled in online.
Technicians, men	Total	{RD_TECM_NAT}+{RD_TECM_ENG}+{RD_TECM_MED}+{RD_TECM_AGR}+{RD_TECM_SOC}+{RD_TECM_HUM}	Sum of columns 1–6. Summed automatically if filled in online.
Technicians, women	Total	{RD_TECF_NAT}+{RD_TECF_ENG}+{RD_TECF_MED}+{RD_TECF_AGR}+{RD_TECF_SOC}+{RD_TECF_HUM}	Sum of columns 1–6. Summed automatically if filled in online.

### Autosums in table 1.2. NUMBER OF EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT IN THE REFERENCE YEAR IN FULL-TIME EQUIVALENTS

Row name	Column name	Formula	Clarification
Scientists and engineers, men	Total	{RD_RESM_FTE_NAT}+{RD_RESM_FTE_ENG}+{RD_RESM_FTE_MED}+{RD_RESM_FTE_AGR}+{RD_RESM_FTE_SOC}+{RD_RESM_FTE_HUM}	Sum of columns 1–6. Summed automatically if filled in online.
Scientists and engineers, women	Total	{RD_RESF_FTE_NAT}+{RD_RESF_FTE_ENG}+{RD_RESF_FTE_MED}+{RD_RESF_FTE_AGR}+{RD_RESF_FTE_SOC}+{RD_RESF_FTE_HUM}	Sum of columns 1–6. Summed automatically if filled in online.

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Technicians	Total	{RD_TECMF_FTE_NAT}+{RD_TECMF_FTE_ENG}+{RD_TECMF_FTE_MED}+{RD_TECMF_FTE_AGR}+{RD_TECMF_FTE_SOC}+{RD_TECMF_FTE_HUM}	Sum of columns 1–6. Summed automatically if filled in online.
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### Autosums in table 2. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY POST AND LEVEL OF EDUCATION AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Doctor	Total, men	{RD_RESM_DOC}+{RD_TECM_DOC}+{RD_SUPM_DOC}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 1, 3 and 5.
Doctor	Total, women	{RD_RESF_DOC}+{RD_TECF_DOC}+{RD_SUPF_DOC}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 2, 4 and 6.
Master	Total, men	{RD_RESM_MAG}+{RD_TECM_MAG}+{RD_SUPM_MAG}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 1, 3 and 5.
Master	Total, women	{RD_RESF_MAG}+{RD_TECF_MAG}+{RD_SUPF_MAG}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 2, 4 and 6.
Academic higher education	Total, men	{RD_RESM_ACE}+{RD_TECM_ACE}+{RD_SUPM_ACE}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 1, 3 and 5.
Academic higher education	Total, women	{RD_RESF_ACE}+{RD_TECF_ACE}+{RD_SUPF_ACE}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 2, 4 and 6.
Professional higher education	Total, men	{RD_RESM_PRE}+{RD_TECM_PRE}+{RD_SUPM_PRE}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 1, 3 and 5.
Professional higher education	Total, women	{RD_RESF_PRE}+{RD_TECF_PRE}+{RD_SUPF_PRE}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 2, 4 and 6.
Vocational secondary education	Total, men	{RD_TECM_PRS}+{RD_SUPM_PRS}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 3 and 5.
Vocational secondary education	Total, women	{RD_TECF_PRS}+{RD_SUPF_PRS}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 4 and 6.

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Secondary education	Total, men	{RD_TECM_SEC}+{RD_SUPM_SEC}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 3 and 5.
Secondary education	Total, women	{RD_TECF_SEC}+{RD_SUPF_SEC}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 4 and 6.
Without secondary education	Total, men	{RD_TECM_NOS}+{RD_SUPM_NOS}	Total number of male employees in column 7 must be equal to the sum of male employees by posts indicated in columns 3 and 5.
Without secondary education	Total, women	{RD_TECF_NOS}+{RD_SUPF_NOS}	Total number of female employees in column 8 must be equal to the sum of female employees by posts indicated in columns 4 and 6.
Total	Scientists and engineers, men	{RD_RESM_DOC}+{RD_RESM_MAG}+{RD_RESM_ACE}+{RD_RESM_PRE}	Sum of rows 01–04, and it must correspond to the data indicated in Table 1.1 row 01 column 7. Summed automatically if filled in online.
Total	Scientists and engineers, women	{RD_RESF_DOC}+{RD_RESF_MAG}+{RD_RESF_ACE}+{RD_RESF_PRE}	Sum of rows 01–04, and it must correspond to the data indicated in Table 1.1 row 02 column 7. Summed automatically if filled in online.
Total	Technicians, men	{RD_TECM_DOC}+{RD_TECM_MAG}+{RD_TECM_ACE}+{RD_TECM_PRE}+{RD_TECM_PRS}+{RD_TECM_SEC}+{RD_TECM_NOS}	Sum of rows 01–07, and it must correspond to the data indicated in Table 1.1 row 03 column 7. Summed automatically if filled in online.
Total	Technicians, women	{RD_TECF_DOC}+{RD_TECF_MAG}+{RD_TECF_ACE}+{RD_TECF_PRE}+{RD_TECF_PRS}+{RD_TECF_SEC}+{RD_TECF_NOS}	Sum of rows 01–07, and it must correspond to the data indicated in Table 1.1 row 04 column 7. Summed automatically if filled in online.
Total	Assistant personnel, men	{RD_SUPM_DOC}+{RD_SUPM_MAG}+{RD_SUPM_ACE}+{RD_SUPM_PRE}+{RD_SUPM_PRS}+{RD_SUPM_SEC}+{RD_SUPM_NOS}	Sum of rows 01–07, and it must correspond to the data indicated in Table 1.1 row 05 column 7. Summed automatically if filled in online.
Total	Assistant personnel, women	{RD_SUPF_DOC}+{RD_SUPF_MAG}+{RD_SUPF_ACE}+{RD_SUPF_PRE}+{RD_SUPF_PRS}+{RD_SUPF_SEC}+{RD_SUPF_NOS}	Sum of rows 01–07, and it must correspond to the data indicated in Table 1.1 row 06 column 7. Summed automatically if filled in online.
Total	Total, men	{RD_RESM_DOC}+{RD_TECM_DOC}+{RD_SUPM_DOC}+{RD_RESM_MAG}+{RD_TECM_MAG}+{RD_SUPM_MAG}+{RD_RESM_ACE}+{RD_TECM_ACE}+{RD_SUPM_ACE}+{RD_RESM_PRE}+{RD_TECM_PRE}+{RD_SUPM_PRE}+{RD_TECM_PRS}+{RD_SUPM_PRS}+{RD_TECM_SEC}+{RD_SUPM_SEC}+{RD_TECM_NOS}+{RD_SUPM_NOS}	



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Total	Total, women	{RD_RESF_DOC}+{RD_TECF_DOC}+{RD_SUPF_DOC}+{RD_RESF_MAG}+{RD_TECF_MAG}+{RD_SUPF_MAG}+{RD_RESF_ACE}+{RD_TECF_ACE}+{RD_SUPF_ACE}+{RD_RESF_PRE}+{RD_TECF_PRE}+{RD_SUPF_PRE}+{RD_TECF_PRS}+{RD_SUPF_PRS}+{RD_TECF_SEC}+{RD_SUPF_SEC}+{RD_TECF_NOS}+{RD_SUPF_NOS}	

### Autosums in table 3. SCIENTISTS AND ENGINEERS BY AGE AND SEX AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Men	Total scientists and engineers	{RD_RESM_AGE1}+{RD_RESM_AGE2}+{RD_RESM_AGE3}+{RD_RESM_AGE4}+{RD_RESM_AGE5}+{RD_RESM_AGE6}	Sum of columns 2–7. Summed automatically if filled in online. Total number of male scientists and engineers by age on row 1 column 1 must correspond to the data indicated in Table 1.1 row 1 column 7.
Women	Total scientists and engineers	{RD_RESF_AGE1}+{RD_RESF_AGE2}+{RD_RESF_AGE3}+{RD_RESF_AGE4}+{RD_RESF_AGE5}+{RD_RESF_AGE6}	Sum of columns 2–7. Summed automatically if filled in online. Total number of female scientists and engineers by age on row 1 column 1 must correspond to the data indicated in Table 1.1 row 2 column 7.

### Autosums in table 4. SCIENTISTS AND ENGINEERS BY SCIENTIFIC AREAS AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Natural sciences	Total scientists and engineers, men	{RD_RESM_NAT}	
Natural sciences	Total scientists and engineers, women	{RD_RESF_NAT}	
Engineering sciences	Total scientists and engineers, men	{RD_RESM_ENG}	
Engineering sciences	Total scientists and engineers, women	{RD_RESF_ENG}	
Medical science	Total scientists and engineers, men	{RD_RESM_MED}	
Medical science	Total scientists and engineers, women	{RD_RESF_MED}	
Agricultural sciences	Total scientists and engineers, men	{RD_RESM_AGR}	
Agricultural sciences	Total scientists and engineers,	{RD_RESF_AGR}	

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	women		
Social sciences	Total scientists and engineers, men	{RD_RESM_SOC}	
Social sciences	Total scientists and engineers, women	{RD_RESF_SOC}	
Humanities	Total scientists and engineers, men	{RD_RESM_HUM}	
Humanities	Total scientists and engineers, women	{RD_RESF_HUM}	
Total	Total scientists and engineers, men	{RD_RESM_NAT_DEG}+{RD_RESM_ENG_DEG}+{RD_RESM_MED_DEG}+{RD_RESM_AGR_DEG}+{RD_RESM_SOC_DEG}+{RD_RESM_HUM_DEG}	Sum of rows 01–06. Summed automatically if filled in online.
Total	Total scientists and engineers, women	{RD_RESF_NAT_DEG}+{RD_RESF_ENG_DEG}+{RD_RESF_MED_DEG}+{RD_RESF_AGR_DEG}+{RD_RESF_SOC_DEG}+{RD_RESF_HUM_DEG}	Sum of rows 01–06. Summed automatically if filled in online.
Total	incl. Doctors, men	{RD_RESM_NAT_DOC}+{RD_RESM_ENG_DOC}+{RD_RESM_MED_DOC}+{RD_RESM_AGR_DOC}+{RD_RESM_SOC_DOC}+{RD_RESM_HUM_DOC}	Sum of rows 01–06. Summed automatically if filled in online.
Total	incl. Doctors, women	{RD_RESF_NAT_DOC}+{RD_RESF_ENG_DOC}+{RD_RESF_MED_DOC}+{RD_RESF_AGR_DOC}+{RD_RESF_SOC_DOC}+{RD_RESF_HUM_DOC}	Sum of rows 1–6. Summed automatically if filled in online.
Total	incl. Masters, men	{RD_RESM_NAT_MAG}+{RD_RESM_ENG_MAG}+{RD_RESM_MED_MAG}+{RD_RESM_AGR_MAG}+{RD_RESM_SOC_MAG}+{RD_RESM_HUM_MAG}	Sum of rows 1–6. Summed automatically if filled in online.
Total	incl. Masters, women	{RD_RESF_NAT_MAG}+{RD_RESF_ENG_MAG}+{RD_RESF_MED_MAG}+{RD_RESF_AGR_MAG}+{RD_RESF_SOC_MAG}+{RD_RESF_HUM_MAG}	Sum of rows 1–6. Summed automatically if filled in online.

### Autosums in table 6. COSTS ON RESEARCH AND DEVELOPMENT BY SOURCES OF FUNDING AND SCIENTIFIC AREAS, EUROS

Row name	Column name	Formula	Clarification
Natural sciences	Total costs	{RD_EXP_NAT_GOV}+{RD_EXP_NAT_BES}+{RD_EXP_NAT_PNP}+{RD_EXP_NAT_HES}+{RD_EXP_NAT_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Engineering sciences	Total costs	{RD_EXP_ENG_GOV}+{RD_EXP_ENG_BES}+{RD_EXP_ENG_PNP}+{RD_EXP_ENG_HES}+{RD_EXP_ENG_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Medical science	Total costs	{RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Agricultural sciences	Total costs	{RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Social sciences	Total costs	{RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Humanities	Total costs	{RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	Sum of columns 2–6. Summed automatically if filled in online.
Total	Total costs	{RD_EXP_NAT_GOV}+{RD_EXP_NAT_BES}+{RD_EXP_NAT_PNP}+{RD_EXP_NAT_HES}+{RD_EXP_NAT_FOR}+{RD_EXP_ENG_GOV}+{RD_EXP_ENG_BES}+{RD_EXP_ENG_PNP}+{RD_EXP_ENG_HES}+{RD_EXP_ENG_FOR}+{RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}+{RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}+{RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}+{RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	Sum of rows 01–06. Summed automatically if filled in online.

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		$D\_EXP\_HUM\_PNP\}+\{RD\_EXP\_HUM\_HES\}+\{RD\_EXP\_HUM\_FOR\}$	
Total	Country	$\{RD\_EXP\_NAT\_GOV\}+\{RD\_EXP\_ENG\_GOV\}+\{RD\_EXP\_MED\_GOV\}+\{RD\_EXP\_AGR\_GOV\}+\{RD\_EXP\_SOC\_GOV\}+\{RD\_EXP\_HUM\_GOV\}$	Sum of rows 01–06. Summed automatically if filled in online.
Total	Companies	$\{RD\_EXP\_NAT\_BES\}+\{RD\_EXP\_ENG\_BES\}+\{RD\_EXP\_MED\_BES\}+\{RD\_EXP\_AGR\_BES\}+\{RD\_EXP\_SOC\_BES\}+\{RD\_EXP\_HUM\_BES\}$	Sum of rows 01–06. Summed automatically if filled in online.
Total	Non-profit private sector	$\{RD\_EXP\_NAT\_PNP\}+\{RD\_EXP\_ENG\_PNP\}+\{RD\_EXP\_MED\_PNP\}+\{RD\_EXP\_AGR\_PNP\}+\{RD\_EXP\_SOC\_PNP\}+\{RD\_EXP\_HUM\_PNP\}$	Sum of rows 01–06. Summed automatically if filled in online.
Total	Universities and higher education institutions	$\{RD\_EXP\_NAT\_HES\}+\{RD\_EXP\_ENG\_HES\}+\{RD\_EXP\_MED\_HES\}+\{RD\_EXP\_AGR\_HES\}+\{RD\_EXP\_SOC\_HES\}+\{RD\_EXP\_HUM\_HES\}$	Sum of rows 01–06. Summed automatically if filled in online.
Total	Foreign sources	$\{RD\_EXP\_NAT\_FOR\}+\{RD\_EXP\_ENG\_FOR\}+\{RD\_EXP\_MED\_FOR\}+\{RD\_EXP\_AGR\_FOR\}+\{RD\_EXP\_SOC\_FOR\}+\{RD\_EXP\_HUM\_FOR\}$	Sum of rows 01–06. Summed automatically if filled in online.

### Autosums in table 7. COSTS ON RESEARCH AND DEVELOPMENT BY NATIONAL AND FOREIGN SOURCES OF FUNDING

Row name	Column name	Formula	Clarification
TOTAL state funds	Total costs, euros	$\{RD\_EXP\_GOVI1\}+\{RD\_EXP\_GOVI2\}+\{RD\_EXP\_GOVI3\}+\{RD\_EXP\_GOVI4\}+\{RD\_EXP\_GOVI5\}+\{RD\_EXP\_GOVI6\}$	Sum of rows 01–06
	Total costs, euros	$\{RD\_EXP\_NAT\_GOV\}+\{RD\_EXP\_ENG\_GOV\}+\{RD\_EXP\_MED\_GOV\}+\{RD\_EXP\_AGR\_GOV\}+\{RD\_EXP\_SOC\_GOV\}+\{RD\_EXP\_HUM\_GOV\}$	
	Total costs, euros	$\{RD\_EXP\_FORI1\}+\{RD\_EXP\_FORI2\}+\{RD\_EXP\_FORI3\}+\{RD\_EXP\_FORI4\}$	
TOTAL foreign sources (value displayed from Table 6 row 6)	Total costs, euros	$\{RD\_EXP\_NAT\_FOR\}+\{RD\_EXP\_ENG\_FOR\}+\{RD\_EXP\_MED\_FOR\}+\{RD\_EXP\_AGR\_FOR\}+\{RD\_EXP\_SOC\_FOR\}+\{RD\_EXP\_HUM\_FOR\}$	Table 7 row 12 column 1 = Table 6 row 7 column 6

### Autosums in table 8. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF COSTS, EUROS

Row name	Column name	Formula	Clarification
Expenses	Total costs (prefilled value will be displayed from Table 6 row 7 column 1 after saving)	$\{RD\_EXP\_NAT\_GOV\}+\{RD\_EXP\_NAT\_BES\}+\{RD\_EXP\_NAT\_PNP\}+\{RD\_EXP\_NAT\_HES\}+\{RD\_EXP\_NAT\_FOR\}+\{RD\_EXP\_ENG\_GOV\}+\{RD\_EXP\_ENG\_BES\}+\{RD\_EXP\_ENG\_PNP\}+\{RD\_EXP\_ENG\_HES\}+\{RD\_EXP\_ENG\_FOR\}+\{RD\_EXP\_MED\_GOV\}+\{RD\_EXP\_MED\_BES\}+\{RD\_EXP\_MED\_PNP\}+\{RD\_EXP\_MED\_HES\}+\{RD\_EXP\_MED\_FOR\}+\{RD\_EXP\_AGR\_GOV\}+\{RD\_EXP\_AGR\_BES\}+\{RD\_EXP\_AGR\_PNP\}+\{RD\_EXP\_AGR\_HES\}+\{RD\_EXP\_AGR\_FOR\}+\{RD\_EXP\_SOC\_GOV\}+\{RD\_EXP\_SOC\_BES\}+\{RD\_EXP\_SOC\_PNP\}+\{RD\_EXP\_SOC\_HES\}+\{RD\_EXP\_SOC\_FOR\}+\{RD\_EXP\_HUM\_GOV\}+\{RD\_EXP\_HUM\_BES\}+\{RD\_EXP\_HUM\_PNP\}+\{RD\_EXP\_HUM\_HES\}+\{RD\_EXP\_HUM\_FOR\}$	Table 8 row 1 column 1 = Table 6 row 7 column 1

### Autosums in table 9. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF ACTIVITY BASED ON FIELDS OF APPLICATION, EUROS

Row name	Column name	Formula	Clarification
Natural sciences	Total costs	$\{RD\_EXP\_NAT\_BAS\}+\{RD\_EXP\_NAT\_APP\}+\{RD\_EXP\_NAT\_EXW\}$	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data indicated in Table 6 row "Natural sciences" in column 1.
Engineering sciences	Total costs	$\{RD\_EXP\_ENG\_BAS\}+\{RD\_EXP\_ENG\_APP\}+\{RD\_EXP\_ENG\_EXW\}$	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data

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			indicated in Table 6 row "Engineering sciences" in column 1.
Medical science	Total costs	{RD_EXP_MED_BAS}+{RD_EXP_MED_APP}+{RD_EXP_MED_EXW}	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data indicated in Table 6 row "Medical science" in column 1.
Agricultural sciences	Total costs	{RD_EXP_AGR_BAS}+{RD_EXP_AGR_APP}+{RD_EXP_AGR_EXW}	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data indicated in Table 6 row "Agricultural sciences" in column 1.
Social sciences	Total costs	{RD_EXP_SOC_BAS}+{RD_EXP_SOC_APP}+{RD_EXP_SOC_EXW}	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data indicated in Table 6 row "Social sciences" in column 1.
Humanities	Total costs	{RD_EXP_HUM_BAS}+{RD_EXP_HUM_APP}+{RD_EXP_HUM_EXW}	Sum of columns 2–4. Summed automatically if filled in online. Must correspond to the data indicated in Table 6 row "Humanities" in column 1.
Total	Total costs	{RD_EXP_NAT_GOV}+{RD_EXP_NAT_BES}+{RD_EXP_NAT_PNP}+{RD_EXP_NAT_HES}+{RD_EXP_NAT_FOR}+{RD_EXP_ENG_GOV}+{RD_EXP_ENG_BES}+{RD_EXP_ENG_PNP}+{RD_EXP_ENG_HES}+{RD_EXP_ENG_FOR}+{RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}+{RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}+{RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}+{RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	Table 9 row 7 column 1 = Table 6 row 7 column 1
Total	incl. on basic research	{RD_EXP_NAT_BAS}+{RD_EXP_ENG_BAS}+{RD_EXP_MED_BAS}+{RD_EXP_AGR_BAS}+{RD_EXP_SOC_BAS}+{RD_EXP_HUM_BAS}	Sum of rows 01–06. Summed automatically if filled in online.
Total	incl. on applied research	{RD_EXP_NAT_APP}+{RD_EXP_ENG_APP}+{RD_EXP_MED_APP}+{RD_EXP_AGR_APP}+{RD_EXP_SOC_APP}+{RD_EXP_HUM_APP}	Sum of rows 01–06. Summed automatically if filled in online.
Total	incl. on experimental development works	{RD_EXP_NAT_EXW}+{RD_EXP_ENG_EXW}+{RD_EXP_MED_EXW}+{RD_EXP_AGR_EXW}+{RD_EXP_SOC_EXW}+{RD_EXP_HUM_EXW}	Sum of rows 01–06. Summed automatically if filled in online.

### Autosums in table 10. COSTS ON RESEARCH AND DEVELOPMENT BY FIELDS OF APPLICATION, EUROS

Row name	Column name	Formula	Clarification
	Total costs	{RD_NABS08}+{RD_NABS06}+{RD_NABS05}+{RD_NABS04}+{RD_NABS02}+{RD_NABS07}+{RD_NABS10}+{RD_NABS09}+{RD_NABS11}+{RD_NABS01}+{RD_NABS03}+{RD_NABS14}+{RD_NABS13}	
	Funded from state funds	{RD_NABS08_GOV}+{RD_NABS06_GOV}+{RD_NABS05_GOV}+{RD_NABS04_GOV}+{RD_NABS02_GOV}+{RD_NABS07_GOV}+{RD_NABS10_GOV}+{RD_NABS09_GOV}+{RD_NABS11_GOV}+{RD_NABS01_GOV}+{RD_NABS03_GOV}+{RD_NABS14_GOV}+{RD_NABS13_GOV}	
TOTAL COSTS (prefilled value will be displayed from	Total costs	{RD_EXP_NAT_GOV}+{RD_EXP_NAT_BES}+{RD_EXP_NAT_PNP}+{RD_EXP_NAT_HES}+{RD_EXP_NAT_FOR}+{RD_EXP_ENG_GOV}+{RD_EXP_ENG_BES}+{RD_EXP_ENG_PNP}+{RD_EXP_ENG_HES}+{RD_EXP_ENG_FOR}+{RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}+{RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}+{RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}+{RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	Table 10 row 14 column 1 = Table 6 row 7 column 1

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Table 6 row 7 after saving)		D_EXP_ENG_FOR}+{RD_EXP_MED_GOV}+{RD_EXP_MED_BES}+{RD_EXP_MED_PNP}+{RD_EXP_MED_HES}+{RD_EXP_MED_FOR}+{RD_EXP_AGR_GOV}+{RD_EXP_AGR_BES}+{RD_EXP_AGR_PNP}+{RD_EXP_AGR_HES}+{RD_EXP_AGR_FOR}+{RD_EXP_SOC_GOV}+{RD_EXP_SOC_BES}+{RD_EXP_SOC_PNP}+{RD_EXP_SOC_HES}+{RD_EXP_SOC_FOR}+{RD_EXP_HUM_GOV}+{RD_EXP_HUM_BES}+{RD_EXP_HUM_PNP}+{RD_EXP_HUM_HES}+{RD_EXP_HUM_FOR}	
TOTAL COSTS (prefilled value will be displayed from Table 6 row 7 after saving)	Funded from state funds	{RD_EXP_NAT_GOV}+{RD_EXP_ENG_GOV}+{RD_EXP_MED_GOV}+{RD_EXP_AGR_GOV}+{RD_EXP_SOC_GOV}+{RD_EXP_HUM_GOV}	Table 6 row 7 column 2 = Table 10 row 14 column 2