

Annex 8. Detailed list of variables PNT-06

No.	Package	Variable/question	Basic grouping	List of admissible answers to questions	Measurement unit	Type of variable	Observation period
1	Nanotechnology	Activities of a firm related to nanotechnology		Activities of a firm		Qualitative variable	year
2	Nanotechnology	R&D intramural expenditures in a firm	Funds on an area of nanotechnology application Expand grouping		thousand PLN	Quantitative variable	year
3	Nanotechnology	R&D intramural expenditures in a firm	Funds received from foreign entities Expand grouping		thousand PLN	Quantitative variable	year
4	Nanotechnology	R&D intramural expenditures in a firm	Funds received from national entities Sources of funding expenditures Expand grouping		thousand PLN	Quantitative variable	year
5	Respondent burden	Time dedicated to collecting data to be transferred			minute	Quantitative variable	year
6	Respondent burden	Time dedicated to transferring data			minute	Quantitative variable	year
7	Nanotechnology	R&D intramural expenditures in a firm	Nanotechnology expenditures Expand grouping		thousand PLN	Quantitative variable	year
8	Nanotechnology	R&D intramural expenditures in a firm	Intramural expenditures actually incurred Expand grouping		thousand PLN	Quantitative variable	year
9	Nanotechnology	R&D intramural expenditures in a firm	Own funds Expand grouping		thousand PLN	Quantitative variable	year
10	Nanotechnology	Nanotechnology intramural expenditures	Intramural expenditures by areas of nanotechnology application Expand grouping		thousand PLN	Quantitative variable	year
11	Nanotechnology	Source of infrastructure or equipment used in nanotechnology	Sources of infrastructure or equipment Expand grouping	Source of infrastructure or equipment		Qualitative variable	year
12	Persons employed, including employees	Nanotechnology personnel	FTE – number of full-time equivalents Personnel by type of activity Expand grouping		headcount	Quantitative variable	year
13	Nanotechnology	Nanotechnology intramural expenditures	Funds received from foreign entities Expand grouping		thousand PLN	Quantitative variable	year
14	Persons employed, including employees	Nanotechnology personnel	Education level Personnel by type of activity Personnel by sex Expand grouping		headcount	Quantitative variable	year
15	Nanotechnology	Research (partner) co-operation in nanotechnology		Partner institutions		Qualitative variable	year

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16	Persons employed, including employees	Persons employed who dedicate at least 50% of working time to nano-technology			headcount	Quantitative variable	year
17	Persons employed, including employees	Persons employed who dedicate less than 50% of working time to nano-technology			headcount	Quantitative variable	year
18	Nanotechnology	Value of sales of nanotechnology products	Type of manufactured products (goods and services) Sales by output market Expand grouping		thousand PLN	Quantitative variable	year
19	Nanotechnology	Nanotechnology intramural expenditures	Funds received from national entities Expand grouping		thousand PLN	Quantitative variable	year
20	Nanotechnology	Purchase of patents and licences in nanotechnology	Purchased patents and licences Expand grouping		unit	Quantitative variable	year
21	Nanotechnology	Sales of patents and licences in nanotechnology	Sold patents and licences Expand grouping		unit	Quantitative variable	year
22	Nanotechnology	Patents in nanotechnology granted by the foreign patent offices			unit	Quantitative variable	year
23	Nanotechnology	Patents in nanotechnology granted by the Patent Office of the Republic of Poland			unit	Quantitative variable	year
24	Nanotechnology	Patent application in nanotechnology filed with foreign patent offices			unit	Quantitative variable	year
25	Nanotechnology	Planned submission of patent applications in nanotechnology to foreign patent offices			unit	Quantitative variable	year
26	Nanotechnology	Patent application in nanotechnology filed with the Patent Office of the Republic of Poland			unit	Quantitative variable	year
27	Persons employed, including employees	Persons employed in a nanotechnology firm			headcount	Quantitative variable	31 December
28	Persons employed, including employees	Persons employed in a firm			headcount	Quantitative variable	31 December
29	Nanotechnology	Way of acquiring or creating technology used in nanotechnology	Way of acquiring/creating technology Expand grouping	National/ Foreign		Qualitative variable	year
30	Nanotechnology	Types of products manufactured in a firm		Type of nanotechnology product		Qualitative variable	year
31	Nanotechnology	Nanotechnology	Area of nanotechnology application Expand grouping	Type of activity		Qualitative variable	year

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No.	Package	Variable/question	Basic grouping	List of admissible answers to questions	Measurement unit	Type of variable	Observation period
32	Nanotechnology	Obtained funds for research projects		Ratio of obtained to requested funds for research projects		Qualitative variable	year
33	Nanotechnology	Value of obtained funds for research projects			thousand PLN	Quantitative variable	year
34	Nanotechnology	Obtaining funds for research projects		Attempts to obtain funds for nanotechnology projects		Qualitative variable	year
35	Nanotechnology	Difficulties in recruiting personnel qualified in nanotechnology		Experiencing difficulties in recruiting qualified personnel		Qualitative variable	year
36	Nanotechnology	Year of commencing nanotechnology activities			year	Quantitative variable	year
37	Nanotechnology	Nanotechnology		Intent to use nanotechnology during the next three years		Qualitative variable	year
38	Nanotechnology	Nanotechnology		Conducting nanotechnology in a reporting year		Qualitative variable	year
39	Research and experimental development	Research (partner) co-operation in nanotechnology R&D		Agreement on research co-operation in R&D		Qualitative variable	year
40	Research and experimental development	Extramural expenditures on nanotechnology R&D	Funds transferred to entities Expand grouping		thousand PLN	Quantitative variable	year
41	Nanotechnology	Intellectual property related to nanotechnology	Type of intellectual property instruments Expand grouping		unit	Quantitative variable	year
42	Nanotechnology	Intellectual property instruments related to nanotechnology		YES/NO		Qualitative variable	year
43	Nanotechnology	Nanotechnology intramural expenditures	Share of own funds in intramural expenditures Expand grouping		thousand PLN	Quantitative variable	year
44	Nanotechnology	Nanotechnology intramural expenditures	Intramural expenditures actually incurred Expand grouping		thousand PLN	Quantitative variable	year
45	Nanotechnology	Nanotechnology intramural expenditures	Nanotechnology expenditures Expand grouping		thousand PLN	Quantitative variable	year
46	Nanotechnology	Obtaining funds for research projects		Obtaining funds for research projects		Qualitative variable	year