

FSD1089

**Dynamics and Productivity of Research
Activity in Universities 1990**

Codebook



FINNISH SOCIAL SCIENCE DATA ARCHIVE

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To the reader

This codebook is part of the data FSD1089 archived at the FSD (Finnish Social Science Data Archive). The dataset has been described in as much detail as possible in Finnish and English. Variable frequencies, variable and value labels, and missing values have been checked. If necessary, the data have been anonymised. The data and its creators shall be cited in all publications and presentations for which the data have been used. The bibliographic citation may be in the form suggested by the archive or in the form required by the publication. The bibliographic citation suggested by the archive:

Kaukonen, Erkki (University of Tampere) & Luukkonen, Terttu (Academy of Finland) & Stolte-Heiskanen, Veronica (University of Tampere): Dynamics and Productivity of Research Activity in Universities 1990 [dataset]. Version 2.0 (2018-08-13). Finnish Social Science Data Archive [distributor]. <http://urn.fi/urn:nbn:fi:fsd:T-FSD1089>

The user shall notify the archive of all publications where she or he has used the data. The original data creators and the archive bear no responsibility for any results or interpretations arising from the reuse of the data.

The codebook contains information on data content, structure and data collection, and includes a list of publications wholly or in part based on the data, according to publication information received by the FSD. The second part of the codebook contains information on variables: question texts, response options, and frequencies. The third part contains indexes.

Variable distributions presented in this codebook have been generated from the SPSS files. Distribution tables present variable values, frequencies (n), frequency percentages (%), and valid percentages (v. %) which take into account missing data. All distributions are unweighted. If the data contain weight variables, these will be found at the end of the variables list. In some cases frequency distributions have been substituted by descriptive statistics. Categorised responses to open-ended questions are not always included in the codebook. Distributions may contain missing data. The note "System missing (SYSMIS)" refers to missing observations (e.g. a respondent has not answered all questions) whereas "Missing (User missing)" refers to data the user has defined as missing. For example, the user may decide to code answer alternatives 'don't want to say' or 'can't say' as missing data.

The codebook may contain attached files, the most common one being the questionnaire.

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Chapter 1

Study description

1.1 Titles

Titles and data version: Dynamics and Productivity of Research Activity in Universities 1990

Titles and data version in Finnish: Korkeakoulujen tutkimustoiminnan dynamiikka ja tuloksellisuus 1990

This codebook has been generated from the version 2.0 (13.8.2018) of the data.

1.2 Subject description

Authoring entity

Kaukonen, Erkki (University of Tampere. Research Institute for Social Sciences)

Luukkonen, Terttu (Academy of Finland)

Stolte-Heiskanen, Veronica (University of Tampere. Department of Sociology and Social Psychology)

Copyright statement for the data

According to the agreement between FSD and the depositor.

Depositor

Kaukonen, Erkki (University of Tampere. Research Institute for Social Sciences)

Date of deposit

9.5.2000

Keywords

bibliometric analysis; evaluation; peer reviews; performance indicators; research; research outputs; scientific cooperation; scientific personnel; scientific publications

Topic Classification

Fields of Science Classification: engineering and technology; engineering and technology; medical and health sciences; medical and health sciences; natural sciences; natural sciences; social sciences; social sciences

CESSDA Classification: biotechnology; educational policy; social welfare policy

Series description

The data belong to the series:

Individual datasets

Individual datasets that do not belong to any series.

Abstract

The survey contains interviews of researchers in six Finnish institutes of higher learning. The main themes pertained to the organisation of the departments' research activities, internationality, scientific communication, scientific publication, utilisation of the findings, and evaluation of university research. The aim of the study was to develop qualitative evaluation methods for scientific research, and find out the significance of resources to the functioning of the departments and the consequences of assessment methods. The researchers were asked how their working time was divided between research, teaching, administration, and other tasks. Relating to professional identity, they were asked about their motivation for choosing a scientific career, along with factors connected to work and working conditions. Scientific communication was studied by asking how the respondents stay in contact with foreign colleagues, what eventual obstacles there are to international contacts, and which countries are the most essential in view of the researchers' own research area. Relating to publishing of the results, the respondents were asked whether their most recent research report was a joint publication or a single author publication, who chose the publication channel, and why was that particular publication channel chosen.

One topic covered research performance assessment and assessment criteria. The respondents were asked what were the most important factors to be taken into account when assessing research performance. The researchers were also asked whether the evaluation criteria used in performance assessment in their field of study were acceptable, and if not, what changes were needed. The scientific activity of the researchers was studied by asking the position of the researchers' main project in the field of science, the duration of the project, size and composition of the research group, and the researchers' other research projects. The researchers were asked to assess their own research, the current situation in their own field of research, and the applicability of their research projects. Other research projects pertaining to the same research area in

Finland and abroad, and eventual contacts of the respondents' projects with these were charted. The respondents were also asked to assess their own research in comparison to other research groups and to say what kind of research they felt was high quality research, and with what indicators should scientific successfulness be measured. The survey also contains information on the researchers' scientific output during the past three years.

Background variables included the respondent's position in the department, age, sex, degrees taken, and experience in research activities.

1.3 Structure and collection of the data

Country: Finland

Geographic coverage: Finland

Analysis or observation unit type: Individual

Universe: Researchers at six Finnish universities

Collection date: Autumn 1989 – Spring 1990

Data collector(s): Kaukonen, Erkki (University of Tampere. Research Institute for Social Sciences); Luukkonen, Terttu (Academy of Finland); Stolte-Heiskanen, Veronica (University of Tampere. Department of Sociology and Social Psychology)

Mode of data collection: Face-to-face interview

Type of research instrument: Semi-structured questionnaire

Time period covered: 1989 – 1990

Time method of the data collection: Cross-section

Number of variables and cases: The data contain 228 variables and 217 cases.

Sampling procedure: Non-probability: Purposive

Six university departments from the two biggest universities and two universities of technology were chosen for the sample. The aim was to choose the departments so that they would represent different fields of research and academic institutions. Two departments represent natural sciences (zoology and biomedicine), two represent technical sciences (automation technology and automatic control engineering), one department represents exact sciences (mathematics and statistics), one stands for social sciences (social policy).

1.4 Use of data

Related publications

Kaukonen, Erkki (1993). Tieteen moninaisuus ja arvioinnin ongelmat. *Korkeakoulutieto* 20(1), 16-23.

Luukkonen, Terttu (1992). Is scientists' publishing behaviour reward-seeking?. *Scientometrics*, 24(2), 297-319.

1. Study description

Stolte-Heiskanen, Veronica (1992). Research performance evaluation in the higher education sector: a grass-roots perspective. *Higher education management*, 4(2), 179-193.

Updated list of publications in the study description at

https://services.fsd.uta.fi/catalogue/FSD1089?lang=en&study_language=en

Location of the data collection

Finnish Social Science Data Archive

Weighting

There are no weight variables in the data.

Restrictions

The dataset is (D) available only by permission from the data depositor/creator.

Chapter 2

Variables

[FSD_NO] FSD study number

Question

FSD study number

Descriptive statistics

statistic	value
number of valid cases	217
minimum	1089.00
maximum	1089.00
mean	1089.00
standard deviation	0.00

[FSD_VR] FSD edition number

Question

FSD edition number

Descriptive statistics

statistic	value
number of valid cases	217
minimum	2.00
maximum	2.00
mean	2.00
standard deviation	0.00

[FSD_ID] FSD case id**Question***FSD case id***Descriptive statistics**

statistic	value
number of valid cases	217
minimum	1.00
maximum	217.00
mean	109.00
standard deviation	62.79

[KORTTI] Koodauslomakkeen numero**Question***Koodauslomakkeen numero***Descriptive statistics**

statistic	value
number of valid cases	217
minimum	1.00
maximum	217.00
mean	109.00
standard deviation	62.79

[LAITOS] Respondent's department and university**Question***Respondent's department and university***Frequencies**

label	value	n	%	v. %
University of Helsinki, Veterinary Sciences	1	49	22.6	22.6
Tampere University of Technology, Automation Technology	2	41	18.9	18.9

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(cont. from previous page)

label	value	n	%	v. %
University of Tampere, Biomedicine	3	45	20.7	20.7
Tampere University of Technology, Control Technology	4	35	16.1	16.1
University of Tampere, Social Policy	5	27	12.4	12.4
University of Tampere, Mathematics and Statistics	6	20	9.2	9.2
		217	100.0	100.0

[A1] Your present position in the department

Question

Your present position in the department

Frequencies

label	value	n	%	v. %
Researcher or Laboratory Technical Officer, Academy of F.	0	92	42.4	42.4
Research Associate, Academy of Finland	1	12	5.5	5.5
Junior Research Fellow, Academy of Finland	2	2	0.9	0.9
Senior Research Fellow, Academy of Finland	3	4	1.8	1.8
Lecturer or Instructor	4	3	1.4	1.4
Assistant or Research Associate	5	42	19.4	19.4
Lecturer or Senior Lecturer	6	14	6.5	6.5
Lecturer in Veterinary Sciences	7	2	0.9	0.9
Senior Assistant or Senior Research Associate	8	12	5.5	5.5
Associate Professor	9	12	5.5	5.5
Professor	10	22	10.1	10.1
		217	100.0	100.0

[A2] Respondent's year of birth

Question

Respondent's year of birth

Frequencies

label	value	n	%	v. %
-1929	0	9	4.1	4.2

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
1930-1934	1	7	3.2	3.2
1935-1939	2	16	7.4	7.4
1940-1944	3	15	6.9	6.9
1945-1949	4	23	10.6	10.6
1950-1954	5	39	18.0	18.1
1955-1959	6	41	18.9	19.0
1960-1964	7	51	23.5	23.6
1965-	8	15	6.9	6.9
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[A3] Respondent's sex

Question

Respondent's sex

Frequencies

label	value	n	%	v. %
Male	1	161	74.2	74.2
Female	2	56	25.8	25.8
		217	100.0	100.0

[A4] What is your highest degree?

Question

What is your highest degree?

Frequencies

label	value	n	%	v. %
no degree	0	28	12.9	12.9
Master	1	77	35.5	35.5
Licentiate	2	35	16.1	16.1
Doctorate (PhD)	3	77	35.5	35.5
		217	100.0	100.0

[A4A] Year when respondent completed Doctorate**Question***Year when respondent completed Doctorate***Frequencies**

label	value	n	%	v. %
no degree	1	143	65.9	65.9
-1969	2	19	8.8	8.8
1970-1979	3	26	12.0	12.0
1980-1984	4	13	6.0	6.0
1985-1989	5	16	7.4	7.4
		217	100.0	100.0

[A4B] Year when respondent completed Licentiate**Question***Year when respondent completed Licentiate***Frequencies**

label	value	n	%	v. %
no degree	1	113	52.1	52.1
-1969	2	27	12.4	12.4
1970-1979	3	28	12.9	12.9
1980-1984	4	16	7.4	7.4
1985-1989	5	33	15.2	15.2
		217	100.0	100.0

[A4C] Year when respondent graduated**Question***Year when respondent graduated***Frequencies**

label	value	n	%	v. %
no degree	1	39	18.0	18.0

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
-1969	2	41	18.9	18.9
1970-1979	3	43	19.8	19.8
1980-1984	4	44	20.3	20.3
1985-1989	5	50	23.0	23.0
		217	100.0	100.0

[A5] Respondent's research experience in years

Question

Respondent's research experience in years

Frequencies

label	value	n	%	v. %
none	0	40	18.4	18.4
1-5 years	1	68	31.3	31.3
6-10 years	2	42	19.4	19.4
11-20 years	3	62	28.6	28.6
over 20 years	4	5	2.3	2.3
		217	100.0	100.0

[A6] Do you have experience of academic study abroad (min. 3 months)?

Question

Do you have experience of academic study abroad (min. 3 months)?

Frequencies

label	value	n	%	v. %
yes	1	23	10.6	10.6
no	2	189	87.1	87.1
NA	9	5	2.3	2.3
		217	100.0	100.0

[A6A] Foreign country/countries in which respondent studied

Question

Foreign country/countries in which respondent studied

Descriptive statistics

statistic	value
number of valid cases	217
minimum	12.00
maximum	99.00
mean	83.56
standard deviation	16.02

[A6B1] Foreign degree (first)**Question***Foreign degree (first)***Frequencies**

label	value	n	%	v. %
no such degree	0	14	6.5	6.5
Master or equivalent	1	1	0.5	0.5
Licentiate or equivalent	2	1	0.5	0.5
Doctorate (PhD) or equivalent	3	5	2.3	2.3
no academic study abroad	8	189	87.1	87.1
NA	9	7	3.2	3.2
		217	100.0	100.0

[A6B2] Foreign degree (second)**Question***Foreign degree (second)***Frequencies**

label	value	n	%	v. %
no such degree	0	10	4.6	4.6
Master or equivalent	1	1	0.5	0.5
Licentiate or equivalent	2	0	0.0	0.0
Doctorate (PhD) or equivalent	3	0	0.0	0.0
no academic study abroad	8	199	91.7	91.7
NA	9	7	3.2	3.2
		217	100.0	100.0

[A7] Have you done research work abroad?**Question***Have you done research work abroad?***Frequencies**

label	value	n	%	v. %
no	0	159	73.3	73.3
yes	1	58	26.7	26.7
		217	100.0	100.0

[A7A] Research abroad, in which country (first)?**Question***Research abroad, in which country (first)?***Frequencies**

label	value	n	%	v. %
no research abroad	0	159	73.3	73.3
Scandinavia	1	7	3.2	3.2
USA	2	21	9.7	9.7
Other Western European countries	3	24	11.1	11.1
Soviet Union	4	0	0.0	0.0
other socialist countries	5	2	0.9	0.9
other non-European countries	6	4	1.8	1.8
NA	9	0	0.0	0.0
		217	100.0	100.0

[A7B] Research abroad, in which country (second)?**Question***Research abroad, in which country (second)?***Frequencies**

label	value	n	%	v. %
no research abroad	0	193	88.9	88.9

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label	value	n	%	v. %
Scandinavia	1	6	2.8	2.8
USA	2	3	1.4	1.4
Other Western European countries	3	9	4.1	4.1
Soviet Union	4	1	0.5	0.5
other socialist countries	5	1	0.5	0.5
other non-European countries	6	4	1.8	1.8
NA	9	0	0.0	0.0
		217	100.0	100.0

[A8A] What proportion of your working time (in %) is devoted to research?**Question***What proportion of your working time (in %) is devoted to research?***Frequencies**

label	value	n	%	v. %
0	1	9	4.1	4.3
1.loka	2	12	5.5	5.7
marras.25	3	16	7.4	7.6
26-40	4	32	14.7	15.2
41-100	5	142	65.4	67.3
System missing (SYSMIS)	.	6	2.8	—
		217	100.0	100.0

[A8B] What proportion of your working time (in %) is devoted to teaching?**Question***What proportion of your working time (in %) is devoted to teaching?***Frequencies**

label	value	n	%	v. %
0	1	85	39.2	40.3
1.loka	2	32	14.7	15.2
marras.25	3	28	12.9	13.3
26-40	4	41	18.9	19.4

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
41-100	5	25	11.5	11.8
System missing (SYSMIS)	.	6	2.8	–
		217	100.0	100.0

[A8C] What proportion of your working time (in %) is devoted to management/administration?

Question

What proportion of your working time (in %) is devoted to management/administration?

Frequencies

label	value	n	%	v. %
0	1	98	45.2	46.4
1.loka	2	42	19.4	19.9
marras.25	3	39	18.0	18.5
26-40	4	20	9.2	9.5
41-100	5	12	5.5	5.7
System missing (SYSMIS)	.	6	2.8	–
		217	100.0	100.0

[A8D] What proportion of your working time (in %) is devoted to other tasks?

Question

What proportion of your working time (in %) is devoted to other tasks?

Frequencies

label	value	n	%	v. %
0	1	164	75.6	77.7
1.loka	2	18	8.3	8.5
marras.25	3	21	9.7	10.0
26-40	4	4	1.8	1.9
41-100	5	4	1.8	1.9
System missing (SYSMIS)	.	6	2.8	–
		217	100.0	100.0

[B9A] What is your motivation for embarking on a scientific career (most important personal motive)?

Question

What is your motivation for embarking on a scientific career (most important personal motive)?

Frequencies

label	value	n	%	v. %
recognition (authority in the scientific community)	1	2	0.9	0.9
responsibility	2	4	1.8	1.8
self-fulfilment in work, interest, inquisitiveness etc	3	132	60.8	60.8
career prospects	4	0	0.0	0.0
authority, power, chance to influence decision-making	5	1	0.5	0.5
salary	6	1	0.5	0.5
reputation, prestige, social position	7	0	0.0	0.0
job security	8	3	1.4	1.4
independence in work, freedom, flexibility	9	46	21.2	21.2
following the example set by prominent researchers	10	1	0.5	0.5
possibility to serve society, enhance progress	11	7	3.2	3.2
other motivation	12	17	7.8	7.8
not aiming to be a researcher, Master of Science thesis	13	1	0.5	0.5
can't say, NA	99	2	0.9	0.9
		217	100.0	100.0

[B9B] What is your motivation for embarking on a scientific career (second most important personal motive)?

Question

What is your motivation for embarking on a scientific career (second most important personal motive)?

Frequencies

label	value	n	%	v. %
recognition (authority in the scientific community)	1	16	7.4	7.4
responsibility	2	6	2.8	2.8
self-fulfilment in work, interest, inquisitiveness etc	3	46	21.2	21.2
career prospects	4	10	4.6	4.6
authority, power, chance to influence decision-making	5	0	0.0	0.0

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
salary	6	5	2.3	2.3
reputation, prestige, social position	7	2	0.9	0.9
job security	8	7	3.2	3.2
independence in work, freedom, flexibility	9	98	45.2	45.2
following the example set by prominent researchers	10	5	2.3	2.3
possibility to serve society, enhance progress	11	10	4.6	4.6
other motivation	12	7	3.2	3.2
not aiming to be a researcher, Master of Science thesis	13	1	0.5	0.5
can't say, NA	99	4	1.8	1.8
		217	100.0	100.0

[B9C] What is your motivation for embarking on a scientific career (third most important personal motive)?

Question

What is your motivation for embarking on a scientific career (third most important personal motive)?

Frequencies

label	value	n	%	v. %
recognition (authority in the scientific community)	1	31	14.3	14.3
responsibility	2	12	5.5	5.5
self-fulfilment in work, interest, inquisitiveness etc	3	21	9.7	9.7
career prospects	4	17	7.8	7.8
authority, power, chance to influence decision-making	5	4	1.8	1.8
salary	6	13	6.0	6.0
reputation, prestige, social position	7	8	3.7	3.7
job security	8	10	4.6	4.6
independence in work, freedom, flexibility	9	31	14.3	14.3
following the example set by prominent researchers	10	4	1.8	1.8
possibility to serve society, enhance progress	11	30	13.8	13.8
other motivation	12	28	12.9	12.9
not aiming to be a researcher, Master of Science thesis	13	0	0.0	0.0
can't say, NA	99	8	3.7	3.7
		217	100.0	100.0

[B10] What are your chances of creative work and self-fulfilment in your present working environment? Would you say that you:

Question

What are your chances of creative work and self-fulfilment in your present working environment? Would you say that you:

Frequencies

label	value	n	%	v. %
have problems in this respect	1	19	8.8	8.8
have some constraints	2	112	51.6	51.6
have no problems in this respect	3	84	38.7	38.7
can't say, NA	9	2	0.9	0.9
		217	100.0	100.0

[B11A] Briefly describe these problems and constraints, or give examples of them (1. mention)

Question

Briefly describe these problems and constraints, or give examples of them (1. mention)

Frequencies

label	value	n	%	v. %
routine work, teaching, administration	0	40	18.4	18.4
lack of resources e.g. research assistance and equipment	1	22	10.1	10.1
lack of time	2	15	6.9	6.9
lack of permanent posts (including temporary posts)	3	3	1.4	1.4
decision-making dominated by professors	4	4	1.8	1.8
organisational constraints; industry, admin etc	5	23	10.6	10.6
lack of colleagues	6	5	2.3	2.3
other	7	17	7.8	7.8
not relevant	8	84	38.7	38.7
can't say, NA, no second or third mention	9	4	1.8	1.8
		217	100.0	100.0

[B11B] Briefly describe these problems and constraints, or give examples of them (2. mention)

Question

Briefly describe these problems and constraints, or give examples of them (2. mention)

Frequencies

label	value	n	%	v. %
routine work, teaching, administration	0	6	2.8	2.8
lack of resources e.g. research assistance and equipment	1	11	5.1	5.1
lack of time	2	2	0.9	0.9
lack of permanent posts (including temporary posts)	3	3	1.4	1.4
decision-making dominated by professors	4	2	0.9	0.9
organisational constraints; industry, admin etc	5	5	2.3	2.3
lack of colleagues	6	5	2.3	2.3
other	7	11	5.1	5.1
not relevant	8	84	38.7	38.7
can't say, NA, no second or third mention	9	88	40.6	40.6
		217	100.0	100.0

[B11C] Briefly describe these problems and constraints, or give examples of them (3. mention)

Question

Briefly describe these problems and constraints, or give examples of them (3. mention)

Frequencies

label	value	n	%	v. %
routine work, teaching, administration	0	0	0.0	0.0
lack of resources e.g. research assistance and equipment	1	4	1.8	1.8
lack of time	2	0	0.0	0.0
lack of permanent posts (including temporary posts)	3	0	0.0	0.0
decision-making dominated by professors	4	0	0.0	0.0
organisational constraints; industry, admin etc	5	1	0.5	0.5
lack of colleagues	6	0	0.0	0.0
other	7	10	4.6	4.6

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label	value	n	%	v. %
not relevant	8	84	38.7	38.7
can't say, NA, no second or third mention	9	118	54.4	54.4
		217	100.0	100.0

[B12A] Thinking of your present job in the department, what are your chances of achieving the following: make full use of my knowledge, experience and abilities

Question

Thinking of your present job in the department, what are your chances of achieving the following: make full use of my knowledge, experience and abilities

Frequencies

label	value	n	%	v. %
not an important factor to me	0	0	0.0	0.0
very limited chances	1	7	3.2	3.2
limited chances	2	42	19.4	19.4
good chances	3	88	40.6	40.6
excellent chances	4	80	36.9	36.9
		217	100.0	100.0

[B12B] Thinking of your present job in the department, what are your chances of achieving the following: plan my own timetable and working schedule

Question

Thinking of your present job in the department, what are your chances of achieving the following: plan my own timetable and working schedule

Frequencies

label	value	n	%	v. %
not an important factor to me	0	0	0.0	0.0
very limited chances	1	9	4.1	4.1
limited chances	2	45	20.7	20.7

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
good chances	3	73	33.6	33.6
excellent chances	4	90	41.5	41.5
		217	100.0	100.0

[B12C] Thinking of your present job in the department, what are your chances of achieving the following: make a substantial contribution to science in my own research area

Question

Thinking of your present job in the department, what are your chances of achieving the following: make a substantial contribution to science in my own research area

Frequencies

label	value	n	%	v. %
not an important factor to me	0	4	1.8	1.9
very limited chances	1	32	14.7	15.0
limited chances	2	68	31.3	31.8
good chances	3	82	37.8	38.3
excellent chances	4	28	12.9	13.1
Missing (User missing)	9	3	1.4	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B12D] Thinking of your present job in the department, what are your chances of achieving the following: possibility to design the content of my own research

Question

Thinking of your present job in the department, what are your chances of achieving the following: possibility to design the content of my own research

Frequencies

label	value	n	%	v. %
not an important factor to me	0	1	0.5	0.5

(continued on next page)

(cont. from previous page)

label	value	n	%	v. %
very limited chances	1	12	5.5	5.6
limited chances	2	39	18.0	18.1
good chances	3	86	39.6	39.8
excellent chances	4	78	35.9	36.1
Missing (User missing)	9	1	0.5	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B12E] Thinking of your present job in the department, what are your chances of achieving the following: possibility to develop own ideas and get approval for them

Question

Thinking of your present job in the department, what are your chances of achieving the following: possibility to develop own ideas and get approval for them

Frequencies

label	value	n	%	v. %
not an important factor to me	0	1	0.5	0.5
very limited chances	1	6	2.8	2.8
limited chances	2	35	16.1	16.2
good chances	3	105	48.4	48.6
excellent chances	4	69	31.8	31.9
Missing (User missing)	9	1	0.5	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B12F] Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with researchers from different fields (multidisciplinary work)

Question

Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with researchers from different fields (multidisciplinary work)

Frequencies

2. Variables

label	value	n	%	v. %
not an important factor to me	0	5	2.3	2.3
very limited chances	1	21	9.7	9.8
limited chances	2	80	36.9	37.2
good chances	3	81	37.3	37.7
excellent chances	4	28	12.9	13.0
Missing (User missing)	9	2	0.9	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B12G] Thinking of your present job in the department, what are your chances of achieving the following: possibility to receive high level education

Question

Thinking of your present job in the department, what are your chances of achieving the following: possibility to receive high level education

Frequencies

label	value	n	%	v. %
not an important factor to me	0	17	7.8	7.9
very limited chances	1	32	14.7	14.9
limited chances	2	53	24.4	24.7
good chances	3	73	33.6	34.0
excellent chances	4	40	18.4	18.6
Missing (User missing)	9	2	0.9	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B12H] Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with prominent researchers of my own field

Question

Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with prominent researchers of my own field

Frequencies

label	value	n	%	v. %
not an important factor to me	0	6	2.8	2.8
very limited chances	1	38	17.5	17.6
limited chances	2	74	34.1	34.3
good chances	3	72	33.2	33.3
excellent chances	4	26	12.0	12.0
Missing (User missing)	9	1	0.5	–
System missing (SYSMIS)	.	0	0.0	–
		217	100.0	100.0

[B13] Thinking of your department as a research organisation:

Question

Thinking of your department as a research organisation:

Frequencies

label	value	n	%	v. %
you would make significant changes	1	53	24.4	24.4
you would make some changes	2	110	50.7	50.7
you are satisfied with the department	3	47	21.7	21.7
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[B14A] What kind of changes would you consider useful to the functioning of the department (first mention)?

Question

What kind of changes would you consider useful to the functioning of the department (first mention)?

Frequencies

label	value	n	%	v. %
openness, communication, democracy	0	25	11.5	11.5
co-operation between projects, groups within the department	1	19	8.8	8.8
decrease the power held by professors	2	9	4.1	4.1
administrative problems, bureaucracy, flexibility	3	33	15.2	15.2
lack of permanent or temporary posts	4	20	9.2	9.2

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
problems of post-graduate education	5	16	7.4	7.4
co-operation with other departments	6	5	2.3	2.3
other	7	37	17.1	17.1
not relevant	8	47	21.7	21.7
can't say, NA, no second or third mention	9	6	2.8	2.8
		217	100.0	100.0

[B14B] What kind of changes would you consider useful to the functioning of the department (second mention)?

Question

What kind of changes would you consider useful to the functioning of the department (second mention)?

Frequencies

label	value	n	%	v. %
openness, communication, democracy	0	15	6.9	6.9
co-operation between projects, groups within the department	1	8	3.7	3.7
decrease the power held by professors	2	6	2.8	2.8
administrative problems, bureaucracy, flexibility	3	9	4.1	4.1
lack of permanent or temporary posts	4	8	3.7	3.7
problems of post-graduate education	5	5	2.3	2.3
co-operation with other departments	6	4	1.8	1.8
other	7	21	9.7	9.7
not relevant	8	47	21.7	21.7
can't say, NA, no second or third mention	9	94	43.3	43.3
		217	100.0	100.0

[B14C] What kind of changes would you consider useful to the functioning of the department (third mention)?

Question

What kind of changes would you consider useful to the functioning of the department (third mention)?

Frequencies

label	value	n	%	v. %
openness, communication, democracy	0	1	0.5	0.5
co-operation between projects, groups within the department	1	1	0.5	0.5
decrease the power held by professors	2	1	0.5	0.5
administrative problems, bureaucracy, flexibility	3	5	2.3	2.3
lack of permanent or temporary posts	4	0	0.0	0.0
problems of post-graduate education	5	2	0.9	0.9
co-operation with other departments	6	0	0.0	0.0
other	7	3	1.4	1.4
not relevant	8	47	21.7	21.7
can't say, NA, no second or third mention	9	157	72.4	72.4
		217	100.0	100.0

[C15A] How often have you communicated in the following manner with foreign colleagues during the past year: Correspondence (with how many persons)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Correspondence (with how many persons)

Frequencies

label	value	n	%	v. %
0	1	84	38.7	38.9
1.helmi	2	42	19.4	19.4
3.touko	3	40	18.4	18.5
6.loka	4	21	9.7	9.7
over 10	5	29	13.4	13.4
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15B] How often have you communicated in the following manner with foreign colleagues during the past year: Telephone (how many calls)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Telephone (how many calls)

Frequencies

2. Variables

label	value	n	%	v. %
0	1	113	52.1	52.3
1.helmi	2	22	10.1	10.2
3.touko	3	23	10.6	10.6
6.loka	4	21	9.7	9.7
over 10	5	37	17.1	17.1
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15C] How often have you communicated in the following manner with foreign colleagues during the past year: Other electronic communication (telex, fax etc) (with how many colleagues)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Other electronic communication (telex, fax etc) (with how many colleagues)

Frequencies

label	value	n	%	v. %
0	1	109	50.2	50.5
1.helmi	2	36	16.6	16.7
3.touko	3	33	15.2	15.3
6.loka	4	11	5.1	5.1
over 10	5	27	12.4	12.5
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15D] How often have you communicated in the following manner with foreign colleagues during the past year: Requests of offprints from abroad (how many times)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Requests of offprints from abroad (how many times)

Frequencies

label	value	n	%	v. %
0	1	121	55.8	56.0

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(cont. from previous page)

label	value	n	%	v. %
1.helmi	2	14	6.5	6.5
3.touko	3	11	5.1	5.1
6.loka	4	12	5.5	5.6
over 10	5	58	26.7	26.9
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15E] How often have you communicated in the following manner with foreign colleagues during the past year: Scientific visitors from abroad with whom were in active contact (number of persons)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Scientific visitors from abroad with whom were in active contact (number of persons)

Frequencies

label	value	n	%	v. %
0	1	78	35.9	36.1
1.helmi	2	68	31.3	31.5
3.touko	3	44	20.3	20.4
6.loka	4	11	5.1	5.1
over 10	5	15	6.9	6.9
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15F] How often have you communicated in the following manner with foreign colleagues during the past year: Own scientific visits abroad, including attending meetings (number of visits)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Own scientific visits abroad, including attending meetings (number of visits)

Frequencies

2. Variables

label	value	n	%	v. %
0	1	100	46.1	46.3
1.helmi	2	64	29.5	29.6
3.touko	3	35	16.1	16.2
6.loka	4	13	6.0	6.0
over 10	5	4	1.8	1.9
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15G] How often have you communicated in the following manner with foreign colleagues during the past year: Preparing/giving joint presentations in meetings (number of presentations)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Preparing/giving joint presentations in meetings (number of presentations)

Frequencies

label	value	n	%	v. %
0	1	153	70.5	70.8
1.helmi	2	41	18.9	19.0
3.touko	3	17	7.8	7.9
6.loka	4	4	1.8	1.9
over 10	5	1	0.5	0.5
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15H] How often have you communicated in the following manner with foreign colleagues during the past year: Producing joint publications (number of publications)

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Producing joint publications (number of publications)

Frequencies

label	value	n	%	v. %
0	1	146	67.3	67.6

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(cont. from previous page)

label	value	n	%	v. %
1.helmi	2	47	21.7	21.8
3.touko	3	15	6.9	6.9
6.loka	4	6	2.8	2.8
over 10	5	2	0.9	0.9
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15I] How often have you communicated in the following manner with foreign colleagues during the past year: Other joint scientific/technical products, please specify

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Other joint scientific/technical products, please specify

Frequencies

label	value	n	%	v. %
0	1	211	97.2	97.2
1.helmi	2	3	1.4	1.4
3.touko	3	2	0.9	0.9
6.loka	4	0	0.0	0.0
over 10	5	1	0.5	0.5
		217	100.0	100.0

[C15J] How often have you communicated in the following manner with foreign colleagues during the past year: Joint projects

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Joint projects

Frequencies

label	value	n	%	v. %
0	1	172	79.3	79.6
1.helmi	2	31	14.3	14.4

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
3.touko	3	9	4.1	4.2
6.loka	4	3	1.4	1.4
over 10	5	1	0.5	0.5
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[C15K] How often have you communicated in the following manner with foreign colleagues during the past year: Other joint activities

Question

How often have you communicated in the following manner with foreign colleagues during the past year: Other joint activities

Frequencies

label	value	n	%	v. %
0	1	196	90.3	90.3
1.helmi	2	16	7.4	7.4
3.touko	3	4	1.8	1.8
6.loka	4	1	0.5	0.5
over 10	5	0	0.0	0.0
		217	100.0	100.0

[C16A] In your case, what are the biggest obstacles to international contacts (first mention)?

Question

In your case, what are the biggest obstacles to international contacts (first mention)?

Frequencies

label	value	n	%	v. %
there are no obstacles	0	22	10.1	10.1
funds, travel allowance	1	63	29.0	29.0
time	2	28	12.9	12.9
lack of interest, energy or enthusiasm	3	24	11.1	11.1
lack of contacts	4	17	7.8	7.8

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(cont. from previous page)

label	value	n	%	v. %
lack of experience	5	9	4.1	4.1
others take care of contacts (e.g. superiors)	6	6	2.8	2.8
no need for international contacts	7	20	9.2	9.2
other obstacles	8	24	11.1	11.1
can't say, NA	9	4	1.8	1.8
		217	100.0	100.0

[C16B] In your case, what are the biggest obstacles to international contacts (second mention)?

Question

In your case, what are the biggest obstacles to international contacts (second mention)?

Frequencies

label	value	n	%	v. %
there are no obstacles	0	0	0.0	0.0
funds, travel allowance	1	19	8.8	8.8
time	2	5	2.3	2.3
lack of interest, energy or enthusiasm	3	7	3.2	3.2
lack of contacts	4	6	2.8	2.8
lack of experience	5	4	1.8	1.8
others take care of contacts (e.g. superiors)	6	1	0.5	0.5
no need for international contacts	7	4	1.8	1.8
other obstacles	8	16	7.4	7.4
can't say, NA	9	155	71.4	71.4
		217	100.0	100.0

[C16C] In your case, what are the biggest obstacles to international contacts (third mention)?

Question

In your case, what are the biggest obstacles to international contacts (third mention)?

Frequencies

2. Variables

label	value	n	%	v. %
there are no obstacles	0	0	0.0	0.0
funds, travel allowance	1	2	0.9	0.9
time	2	2	0.9	0.9
lack of interest, energy or enthusiasm	3	1	0.5	0.5
lack of contacts	4	1	0.5	0.5
lack of experience	5	0	0.0	0.0
others take care of contacts (e.g. superiors)	6	1	0.5	0.5
no need for international contacts	7	3	1.4	1.4
other obstacles	8	5	2.3	2.3
can't say, NA	9	202	93.1	93.1
		217	100.0	100.0

[C17A] Have you been prevented from attending any international meeting by being refused/not getting a travel grant?

Question

Have you been prevented from attending any international meeting by being refused/not getting a travel grant?

Frequencies

label	value	n	%	v. %
yes	1	10	4.6	21.3
no	2	37	17.1	78.7
System missing (SYSMIS)	.	170	78.3	–
		217	100.0	100.0

[C17B] If you have been prevented from attending an international meeting by not getting a travel grant, how many times?

Question

If you have been prevented from attending an international meeting by not getting a travel grant, how many times?

Frequencies

label	value	n	%	v. %
	1	4	1.8	8.5
	2	3	1.4	6.4

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(cont. from previous page)

label	value	n	%	v. %
	3	3	1.4	6.4
not applicable/relevant	8	37	17.1	78.7
System missing (SYSMIS)	.	170	78.3	–
	217	100.0	100.0	

[C18A] Name three countries which are influential and at the forefront as far as your research area is concerned (first mention)

Question

Name three countries which are influential and at the forefront as far as your research area is concerned (first mention)

Frequencies

label	value	n	%	v. %
Scandinavia	1	28	12.9	12.9
USA	2	123	56.7	56.7
other Western European countries	3	41	18.9	18.9
Soviet Union	4	0	0.0	0.0
other Eastern European countries	5	2	0.9	0.9
other non-European countries	6	18	8.3	8.3
can't say, NA	9	5	2.3	2.3
	217	100.0	100.0	

[C18B] Name three countries which are influential and at the forefront as far as your research area is concerned (second mention)

Question

Name three countries which are influential and at the forefront as far as your research area is concerned (second mention)

Frequencies

label	value	n	%	v. %
Scandinavia	1	30	13.8	13.8
USA	2	31	14.3	14.3
other Western European countries	3	111	51.2	51.2

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
Soviet Union	4	3	1.4	1.4
other Eastern European countries	5	2	0.9	0.9
other non-European countries	6	32	14.7	14.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[C18C] Name three countries which are influential and at the forefront as far as your research area is concerned (third mention)

Question

Name three countries which are influential and at the forefront as far as your research area is concerned (third mention)

Frequencies

label	value	n	%	v. %
Scandinavia	1	38	17.5	17.5
USA	2	30	13.8	13.8
other Western European countries	3	83	38.2	38.2
Soviet Union	4	8	3.7	3.7
other Eastern European countries	5	4	1.8	1.8
other non-European countries	6	26	12.0	12.0
can't say, NA	9	28	12.9	12.9
		217	100.0	100.0

[D20] The most recent paper/report sent by you to be published in a journal, book or other publication, including the university's own series, was:

Question

The most recent paper/report sent by you to be published in a journal, book or other publication, including the university's own series, was:

Frequencies

label	value	n	%	v. %
joint publication	1	122	56.2	68.9
sole publication	2	48	22.1	27.1

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(cont. from previous page)

label	value	n	%	v. %
can't say	9	7	3.2	4.0
System missing (SYSMIS)	.	40	18.4	–
		217	100.0	100.0

[D21] Who chose the publication medium for this paper/report (publication channel)?

Question

Who chose the publication medium for this paper/report (publication channel)?

Frequencies

label	value	n	%	v. %
the author by himself	1	30	13.8	13.8
the author along with joint authors	2	55	25.3	25.3
other authors	3	25	11.5	11.5
publication requested, for conference	4	14	6.5	6.5
not a joint publication	8	21	9.7	9.7
other possible answers / NA	9	72	33.2	33.2
		217	100.0	100.0

[D22A] Criteria for choosing the publication channel: Speed of publication process in that series

Question

Criteria for choosing the publication channel: Speed of publication process in that series

Frequencies

label	value	n	%	v. %
not important	0	53	24.4	24.4
slightly important	1	52	24.0	24.0
important	2	38	17.5	17.5
very important	3	14	6.5	6.5
can't say, NA	9	60	27.6	27.6
		217	100.0	100.0

[D22B] Criteria for choosing the publication channel: The series is esteemed and visible

Question

Criteria for choosing the publication channel: The series is esteemed and visible

Frequencies

label	value	n	%	v. %
not important	0	15	6.9	6.9
slightly important	1	18	8.3	8.3
important	2	61	28.1	28.1
very important	3	64	29.5	29.5
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22C] Criteria for choosing the publication channel: The series attracts those readers whom I would like to read my article/paper

Question

Criteria for choosing the publication channel: The series attracts those readers whom I would like to read my article/paper

Frequencies

label	value	n	%	v. %
not important	0	12	5.5	5.5
slightly important	1	17	7.8	7.8
important	2	65	30.0	30.0
very important	3	64	29.5	29.5
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22D] Criteria for choosing the publication channel: Articles/papers of my own research area have been published in the series previously

Question

Criteria for choosing the publication channel: Articles/papers of my own research area have been published in the series previously

Frequencies

label	value	n	%	v. %
not important	0	41	18.9	18.9
slightly important	1	31	14.3	14.3
important	2	50	23.0	23.0
very important	3	36	16.6	16.6
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22E] Criteria for choosing the publication channel: Review of my article/paper will be objective and competent**Question**

Criteria for choosing the publication channel: Review of my article/paper will be objective and competent

Frequencies

label	value	n	%	v. %
not important	0	36	16.6	16.6
slightly important	1	45	20.7	20.7
important	2	46	21.2	21.2
very important	3	28	12.9	12.9
can't say, NA	9	62	28.6	28.6
		217	100.0	100.0

[D22F] Criteria for choosing the publication channel: It is important for my career to publish in this series**Question**

Criteria for choosing the publication channel: It is important for my career to publish in this series

Frequencies

label	value	n	%	v. %
not important	0	40	18.4	18.4
slightly important	1	51	23.5	23.5

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
important	2	46	21.2	21.2
very important	3	21	9.7	9.7
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22G] Criteria for choosing the publication channel: There is a strong probability that my work will be published

Question

Criteria for choosing the publication channel: There is a strong probability that my work will be published

Frequencies

label	value	n	%	v. %
not important	0	49	22.6	22.6
slightly important	1	46	21.2	21.2
important	2	51	23.5	23.5
very important	3	11	5.1	5.1
can't say, NA	9	60	27.6	27.6
		217	100.0	100.0

[D22H] Criteria for choosing the publication channel: No significant costs are involved, e.g. in the form of page charge

Question

Criteria for choosing the publication channel: No significant costs are involved, e.g. in the form of page charge

Frequencies

label	value	n	%	v. %
not important	0	90	41.5	41.5
slightly important	1	41	18.9	18.9
important	2	17	7.8	7.8
very important	3	10	4.6	4.6
can't say, NA	9	59	27.2	27.2

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label	value	n	%	v. %
		217	100.0	100.0

[D22I] Criteria for choosing the publication channel: Publication process probably does not demand noticeable changes in the text

Question

Criteria for choosing the publication channel: Publication process probably does not demand noticeable changes in the text

Frequencies

label	value	n	%	v. %
not important	0	85	39.2	39.2
slightly important	1	57	26.3	26.3
important	2	12	5.5	5.5
very important	3	4	1.8	1.8
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22J] Criteria for choosing the publication channel: Personal contacts with a member/members of the editorial committee

Question

Criteria for choosing the publication channel: Personal contacts with a member/members of the editorial committee

Frequencies

label	value	n	%	v. %
not important	0	104	47.9	47.9
slightly important	1	28	12.9	12.9
important	2	21	9.7	9.7
very important	3	5	2.3	2.3
can't say, NA	9	59	27.2	27.2
		217	100.0	100.0

[D22K] Criteria for choosing the publication channel: I'm a member of the editorial committee in this series or other influence

Question

Criteria for choosing the publication channel: I'm a member of the editorial committee in this series or other influence

Frequencies

label	value	n	%	v. %
not important	0	142	65.4	65.4
slightly important	1	9	4.1	4.1
important	2	4	1.8	1.8
very important	3	2	0.9	0.9
can't say, NA	9	60	27.6	27.6
		217	100.0	100.0

[D22L] Criteria for choosing the publication channel: Article/paper requested

Question

Criteria for choosing the publication channel: Article/paper requested

Frequencies

label	value	n	%	v. %
not important	0	19	8.8	8.8
slightly important	1	5	2.3	2.3
important	2	5	2.3	2.3
very important	3	12	5.5	5.5
can't say, NA	9	176	81.1	81.1
		217	100.0	100.0

[D22M] Criteria for choosing the publication channel: Have a habit of publishing in this series

Question

Criteria for choosing the publication channel: Have a habit of publishing in this series

Frequencies

label	value	n	%	v. %
not important	0	18	8.3	8.3
slightly important	1	10	4.6	4.6
important	2	8	3.7	3.7
very important	3	5	2.3	2.3
can't say, NA	9	176	81.1	81.1
		217	100.0	100.0

[D22N] Criteria for choosing the publication channel: Conference publica- tion

Question

Criteria for choosing the publication channel: Conference publication

Frequencies

label	value	n	%	v. %
not important	0	31	14.3	14.3
slightly important	1	4	1.8	1.8
important	2	1	0.5	0.5
very important	3	5	2.3	2.3
can't say, NA	9	176	81.1	81.1
		217	100.0	100.0

[D22O] Criteria for choosing the publication channel: Other reasons

Question

Criteria for choosing the publication channel: Other reasons

Frequencies

label	value	n	%	v. %
not important	0	20	9.2	9.2
slightly important	1	2	0.9	0.9
important	2	6	2.8	2.8
very important	3	4	1.8	1.8
can't say, NA	9	185	85.3	85.3
		217	100.0	100.0

[E24A] From the list, choose three factors that are taken into account when assessing research in your field (first factor)

Question

From the list, choose three factors that are taken into account when assessing research in your field (first factor)

Frequencies

label	value	n	%	v. %
scientific quality, validity and reliability	0	100	46.1	46.1
innovativeness and creativity of the research	1	28	12.9	12.9
usefulness of the research to the society	2	19	8.8	8.8
applicability of findings, relevance to potential users	3	30	13.8	13.8
productivity: number of publications, products etc.	4	31	14.3	14.3
research education and training, e.g. postgraduate educ	5	4	1.8	1.8
ability to keep within the agreed timeframe	6	0	0.0	0.0
ability to keep within the budget	7	1	0.5	0.5
adverse effects caused by the research results	8	0	0.0	0.0
ethical dimension of the research	9	1	0.5	0.5
NA	99	3	1.4	1.4
		217	100.0	100.0

[E24B] From the list, choose three factors that are taken into account when assessing research in your field (second factor)

Question

From the list, choose three factors that are taken into account when assessing research in your field (second factor)

Frequencies

label	value	n	%	v. %
scientific quality, validity and reliability	0	38	17.5	17.5
innovativeness and creativity of the research	1	54	24.9	24.9
usefulness of the research to the society	2	24	11.1	11.1
applicability of findings, relevance to potential users	3	45	20.7	20.7
productivity: number of publications, products etc.	4	30	13.8	13.8
research education and training, e.g. postgraduate educ	5	18	8.3	8.3

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label	value	n	%	v. %
ability to keep within the agreed timeframe	6	3	1.4	1.4
ability to keep within the budget	7	0	0.0	0.0
adverse effects caused by the research results	8	0	0.0	0.0
ethical dimension of the research	9	2	0.9	0.9
NA	99	3	1.4	1.4
		217	100.0	100.0

[E24C] From the list, choose three factors that are taken into account when assessing research in your field (third factor)

Question

From the list, choose three factors that are taken into account when assessing research in your field (third factor)

Frequencies

label	value	n	%	v. %
scientific quality, validity and reliability	0	24	11.1	11.1
innovativeness and creativity of the research	1	40	18.4	18.4
usefulness of the research to the society	2	20	9.2	9.2
applicability of findings, relevance to potential users	3	36	16.6	16.6
productivity: number of publications, products etc.	4	39	18.0	18.0
research education and training, e.g. postgraduate educ	5	31	14.3	14.3
ability to keep within the agreed timeframe	6	10	4.6	4.6
ability to keep within the budget	7	6	2.8	2.8
adverse effects caused by the research results	8	1	0.5	0.5
ethical dimension of the research	9	4	1.8	1.8
NA	99	6	2.8	2.8
		217	100.0	100.0

[E25] Do you accept the assessment criteria used to review research in your field?

Question

Do you accept the assessment criteria used to review research in your field?

Frequencies

2. Variables

label	value	n	%	v. %
no	1	79	36.4	36.4
yes	2	129	59.4	59.4
can't say, NA	9	9	4.1	4.1
		217	100.0	100.0

[E26A] How would you like to change these assessment criteria (first mention)?

Question

How would you like to change these assessment criteria (first mention)?

Frequencies

label	value	n	%	v. %
quantitative/volume factors too dominant	1	44	20.3	20.3
place more value on innovativeness and personal input	2	5	2.3	2.3
objectivity and expertise should be increased	3	9	4.1	4.1
use international assessment more often	4	1	0.5	0.5
more emphasis on applicability and practical usefulness	5	8	3.7	3.7
other	6	16	7.4	7.4
not relevant	8	126	58.1	58.1
can't say, NA, no second or third mention	9	8	3.7	3.7
		217	100.0	100.0

[E26B] How would you like to change these assessment criteria (second mention)?

Question

How would you like to change these assessment criteria (second mention)?

Frequencies

label	value	n	%	v. %
quantitative/volume factors too dominant	1	4	1.8	1.8
place more value on innovativeness and personal input	2	12	5.5	5.5
objectivity and expertise should be increased	3	1	0.5	0.5

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label	value	n	%	v. %
use international assessment more often	4	0	0.0	0.0
more emphasis on applicability and practical usefulness	5	4	1.8	1.8
other	6	3	1.4	1.4
not relevant	8	126	58.1	58.1
can't say, NA, no second or third mention	9	67	30.9	30.9
		217	100.0	100.0

[E26C] How would you like to change these assessment criteria (third mention)?

Question

How would you like to change these assessment criteria (third mention)?

Frequencies

label	value	n	%	v. %
quantitative/volume factors too dominant	1	0	0.0	0.0
place more value on innovativeness and personal input	2	0	0.0	0.0
objectivity and expertise should be increased	3	0	0.0	0.0
use international assessment more often	4	1	0.5	0.5
more emphasis on applicability and practical usefulness	5	0	0.0	0.0
other	6	6	2.8	2.8
not relevant	8	126	58.1	58.1
can't say, NA, no second or third mention	9	84	38.7	38.7
		217	100.0	100.0

[E27A] Has your research area been submitted to a special review by the Academy of Finland or any other body?

Question

Has your research area been submitted to a special review by the Academy of Finland or any other body?

Frequencies

2. Variables

label	value	n	%	v. %
yes	1	65	30.0	30.0
no	2	126	58.1	58.1
can't say, NA	9	26	12.0	12.0
		217	100.0	100.0

[E27B] If the answer to the previous question is 'yes', which body was responsible for the review and which research area was assessed?

Question

If the answer to the previous question is 'yes', which body was responsible for the review and which research area was assessed?

Frequencies

label	value	n	%	v. %
cardiovascular research review by Academy of Finland	1	14	6.5	8.2
automation technology review by Academy of Finland (AF)	2	31	14.3	18.2
hydrobiology research review by Academy of Finland	3	3	1.4	1.8
ecotoxicology research review by Academy of Finland	4	3	1.4	1.8
other international review by Academy of Finland	5	2	0.9	1.2
not relevant	8	106	48.8	62.4
can't say, misunderstanding or a non-existent review	9	11	5.1	6.5
System missing (SYSMIS)	.	47	21.7	—
		217	100.0	100.0

[E27C] Year when the review was completed

Question

Year when the review was completed

Frequencies

label	value	n	%	v. %
review not completed yet	0	7	3.2	4.1
	76	1	0.5	0.6
	78	1	0.5	0.6

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label	value	n	%	v. %
	85	5	2.3	2.9
	86	28	12.9	16.5
	87	5	2.3	2.9
	88	4	1.8	2.4
	89	4	1.8	2.4
have not been reviewed	98	106	48.8	62.4
can't say	99	9	4.1	5.3
System missing (SYSMIS)	.	47	21.7	—
	217	100.0	100.0	

[E27D] Was your own research project submitted to this review?**Question***Was your own research project submitted to this review?***Frequencies**

label	value	n	%	v. %
yes	1	37	17.1	17.1
no	2	26	12.0	12.0
not relevant, my research area has not been reviewed	8	147	67.7	67.7
can't say, NA	9	7	3.2	3.2
	217	100.0	100.0	

[E28A] Did you find the above mentioned review competent and objective?**Question***Did you find the above mentioned review competent and objective?***Frequencies**

label	value	n	%	v. %
yes	1	37	17.1	17.1
no	2	11	5.1	5.1
not relevant, my research area has not been reviewed	8	147	67.7	67.7
can't say, NA	9	22	10.1	10.1
	217	100.0	100.0	

[E28B1] If the answer is 'no', please specify the weaknesses/faults of the review (first mention)**Question***If the answer is 'no', please specify the weaknesses/faults of the review (first mention)***Frequencies**

label	value	n	%	v. %
review was superficial	1	2	0.9	1.2
conducted with too tight a time schedule	2	1	0.5	0.6
not objective or reviewer had own aspirations	3	2	0.9	1.2
not competent	4	4	1.8	2.4
quantitative factors too dominant	5	0	0.0	0.0
other	6	1	0.5	0.6
not relevant	8	155	71.4	91.2
can't say, NA, no second or third mention	9	5	2.3	2.9
System missing (SYSMIS)	.	47	21.7	—
		217	100.0	100.0

[E28B2] If the answer is 'no', please specify the weaknesses/faults of the review (second mention)**Question***If the answer is 'no', please specify the weaknesses/faults of the review (second mention)***Frequencies**

label	value	n	%	v. %
review was superficial	1	2	0.9	1.2
conducted with too tight a time schedule	2	2	0.9	1.2
not objective or reviewer had own aspirations	3	0	0.0	0.0
not competent	4	1	0.5	0.6
quantitative factors too dominant	5	0	0.0	0.0
other	6	0	0.0	0.0
not relevant	8	155	71.4	91.2
can't say, NA, no second or third mention	9	10	4.6	5.9
System missing (SYSMIS)	.	47	21.7	—
		217	100.0	100.0

[E28B3] If the answer is 'no', please specify the weaknesses/faults of the review (third mention)

Question

If the answer is 'no', please specify the weaknesses/faults of the review (third mention)

Frequencies

label	value	n	%	v. %
review was superficial	1	0	0.0	0.0
conducted with too tight a time schedule	2	0	0.0	0.0
not objective or reviewer had own aspirations	3	1	0.5	0.6
not competent	4	1	0.5	0.6
quantitative factors too dominant	5	0	0.0	0.0
other	6	0	0.0	0.0
not relevant	8	155	71.4	91.2
can't say, NA, no second or third mention	9	13	6.0	7.6
System missing (SYSMIS)	.	47	21.7	–
		217	100.0	100.0

[E29A] Does this review have an effect on your own research work, resources, research content or other research environment?

Question

Does this review have an effect on your own research work, resources, research content or other research environment?

Frequencies

label	value	n	%	v. %
yes	1	24	11.1	14.1
no	2	22	10.1	12.9
not relevant, my research area has not been reviewed	8	106	48.8	62.4
can't say, NA	9	18	8.3	10.6
System missing (SYSMIS)	.	47	21.7	–
		217	100.0	100.0

[E29B1] The effects of the review on the research (first mention)

Question

The effects of the review on the research (first mention)

2. Variables

Frequencies

label	value	n	%	v. %
increased resources	1	6	2.8	3.5
long-term planning of the research is more clear-cut	2	3	1.4	1.8
impact on research strategies	3	5	2.3	2.9
encouraging impact, increases esteem	4	3	1.4	1.8
other positive impact	5	5	2.3	2.9
negative impact	6	2	0.9	1.2
have not been submitted to review	8	138	63.6	81.2
can't say, NA, no second or third mention	9	8	3.7	4.7
System missing (SYSMIS)	.	47	21.7	–
		217	100.0	100.0

[E29B2] The effects of the review on the research (second mention)

Question

The effects of the review on the research (second mention)

Frequencies

label	value	n	%	v. %
increased resources	1	4	1.8	2.4
long-term planning of the research is more clear-cut	2	0	0.0	0.0
impact on research strategies	3	1	0.5	0.6
encouraging impact, increases esteem	4	2	0.9	1.2
other positive impact	5	0	0.0	0.0
negative impact	6	1	0.5	0.6
have not been submitted to review	8	138	63.6	81.2
can't say, NA, no second or third mention	9	24	11.1	14.1
System missing (SYSMIS)	.	47	21.7	–
		217	100.0	100.0

[E29B3] The effects of the review on the research (third mention)

Question

The effects of the review on the research (third mention)

Frequencies

label	value	n	%	v. %
increased resources	1	0	0.0	0.0
long-term planning of the research is more clear-cut	2	1	0.5	0.6
impact on research strategies	3	0	0.0	0.0
encouraging impact, increases esteem	4	0	0.0	0.0
other positive impact	5	1	0.5	0.6
negative impact	6	0	0.0	0.0
have not been submitted to review	8	138	63.6	81.2
can't say, NA, no second or third mention	9	30	13.8	17.6
System missing (SYSMIS)	.	47	21.7	–
		217	100.0	100.0

[E30A] If you have followed closely any other special review, do you think the review had an effect?

Question

If you have followed closely any other special review, do you think the review had an effect?

Frequencies

label	value	n	%	v. %
yes	1	34	15.7	15.7
no	2	24	11.1	11.1
have not followed	3	39	18.0	18.0
not relevant, have not been submitted to review	8	64	29.5	29.5
can't say, NA	9	56	25.8	25.8
		217	100.0	100.0

[E30B1] The effects of the review you followed (first mention)

Question

The effects of the review you followed (first mention)

Frequencies

label	value	n	%	v. %
impact on funding and allocation of funding	1	9	4.1	4.1
encouragement, increased esteem, increased motivation	2	2	0.9	0.9
provoked discussion within the field or department	3	5	2.3	2.3

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2. Variables

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label	value	n	%	v. %
impact on research strategies	4	3	1.4	1.4
negative impact (anger, anxiety)	5	1	0.5	0.5
no effect or only slight effect	6	2	0.9	0.9
other	7	4	1.8	1.8
not relevant	8	179	82.5	82.5
can't say, NA, no second or third mention	9	12	5.5	5.5
		217	100.0	100.0

[E30B2] The effects of the review you followed (second mention)

Question

The effects of the review you followed (second mention)

Frequencies

label	value	n	%	v. %
impact on funding and allocation of funding	1	5	2.3	2.3
encouragement, increased esteem, increased motivation	2	3	1.4	1.4
provoked discussion within the field or department	3	0	0.0	0.0
impact on research strategies	4	0	0.0	0.0
negative impact (anger, anxiety)	5	0	0.0	0.0
no effect or only slight effect	6	0	0.0	0.0
other	7	2	0.9	0.9
not relevant	8	179	82.5	82.5
can't say, NA, no second or third mention	9	28	12.9	12.9
		217	100.0	100.0

[E31] Do you think special reviews of different research areas or research institutes should be made more or less often?

Question

Do you think special reviews of different research areas or research institutes should be made more or less often?

Frequencies

label	value	n	%	v. %
more often	1	107	49.3	49.3
about the same amount as now	2	59	27.2	27.2
less often	3	8	3.7	3.7
never	4	3	1.4	1.4
can't say, NA	9	40	18.4	18.4
		217	100.0	100.0

[E32A1] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (first mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (first mention)?

Frequencies

label	value	n	%	v. %
co-ordination of research area, help avoid duplication	0	36	16.6	16.6
comparison between domestic and foreign research	1	16	7.4	7.4
recognition and support, make the field known	2	15	6.9	6.9
objective assessment by outsiders	3	39	18.0	18.0
improve the quality of the research	4	14	6.5	6.5
rethinking of research strategies, reorientation	5	28	12.9	12.9
have a positive impact on resources and funding	6	15	6.9	6.9
indicate the weaknesses and problems of research	7	17	7.8	7.8
other	8	13	6.0	6.0
can't say, NA, no second or third mention	9	24	11.1	11.1
		217	100.0	100.0

[E32A2] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (second mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (second mention)?

Frequencies

2. Variables

label	value	n	%	v. %
co-ordination of research area, help avoid duplication	0	7	3.2	3.2
comparison between domestic and foreign research	1	8	3.7	3.7
recognition and support, make the field known	2	6	2.8	2.8
objective assessment by outsiders	3	5	2.3	2.3
improve the quality of the research	4	6	2.8	2.8
rethinking of research strategies, reorientation	5	11	5.1	5.1
have a positive impact on resources and funding	6	16	7.4	7.4
indicate the weaknesses and problems of research	7	6	2.8	2.8
other	8	10	4.6	4.6
can't say, NA, no second or third mention	9	142	65.4	65.4
		217	100.0	100.0

[E32A3] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (third mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (third mention)?

Frequencies

label	value	n	%	v. %
co-ordination of research area, help avoid duplication	0	5	2.3	2.3
comparison between domestic and foreign research	1	1	0.5	0.5
recognition and support, make the field known	2	0	0.0	0.0
objective assessment by outsiders	3	3	1.4	1.4
improve the quality of the research	4	0	0.0	0.0
rethinking of research strategies, reorientation	5	4	1.8	1.8
have a positive impact on resources and funding	6	2	0.9	0.9
indicate the weaknesses and problems of research	7	2	0.9	0.9
other	8	0	0.0	0.0
can't say, NA, no second or third mention	9	200	92.2	92.2
		217	100.0	100.0

[E32B1] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (first mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (first mention)?

Frequencies

label	value	n	%	v. %
waste of time and money	0	11	5.1	5.1
methodical issues involved in assessments	1	69	31.8	31.8
conflicts, anxiety, problems in interpersonal relations	2	16	7.4	7.4
excessive competition	3	3	1.4	1.4
reviews misused to promote own interests	4	6	2.8	2.8
loss of reputation or fear thereof	5	12	5.5	5.5
impact on the distribution of resources	6	8	3.7	3.7
inhibit the freedom and diversity of research	7	20	9.2	9.2
other	8	9	4.1	4.1
can't say, NA, no second or third mention	9	63	29.0	29.0
		217	100.0	100.0

[E32B2] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (second mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (second mention)?

Frequencies

label	value	n	%	v. %
waste of time and money	0	5	2.3	2.3
methodical issues involved in assessments	1	9	4.1	4.1
conflicts, anxiety, problems in interpersonal relations	2	3	1.4	1.4
excessive competition	3	2	0.9	0.9
reviews misused to promote own interests	4	3	1.4	1.4
loss of reputation or fear thereof	5	1	0.5	0.5
impact on the distribution of resources	6	8	3.7	3.7
inhibit the freedom and diversity of research	7	5	2.3	2.3
other	8	1	0.5	0.5
can't say, NA, no second or third mention	9	180	82.9	82.9
		217	100.0	100.0

[E32B3] Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (third mention)?

Question

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (third mention)?

Frequencies

label	value	n	%	v. %
waste of time and money	0	0	0.0	0.0
methodical issues involved in assessments	1	1	0.5	0.5
conflicts, anxiety, problems in interpersonal relations	2	1	0.5	0.5
excessive competition	3	2	0.9	0.9
reviews misused to promote own interests	4	0	0.0	0.0
loss of reputation or fear thereof	5	0	0.0	0.0
impact on the distribution of resources	6	0	0.0	0.0
inhibit the freedom and diversity of research	7	0	0.0	0.0
other	8	1	0.5	0.5
can't say, NA, no second or third mention	9	212	97.7	97.7
		217	100.0	100.0

[F33] How would you place the subject area of your main research project on the scale: New subject areas = 5, traditional subject area = 1

Question

How would you place the subject area of your main research project on the scale: New subject areas = 5, traditional subject area = 1

Frequencies

label	value	n	%	v. %
traditional subject area	1	13	6.0	6.0
mainly traditional	2	26	12.0	12.0
hard to say	3	44	20.3	20.3
mainly new	4	85	39.2	39.2
new subject area	5	38	17.5	17.5
can't say, NA	9	11	5.1	5.1
		217	100.0	100.0

[F34] How would you place your project on the scale: Single-discipline research = 5, interdisciplinary research = 1

Question

How would you place your project on the scale: Single-discipline research = 5, interdisciplinary research = 1

Frequencies

label	value	n	%	v. %
interdisciplinary	1	50	23.0	23.0
mainly interdisciplinary	2	42	19.4	19.4
hard to say	3	43	19.8	19.8
mainly single-discipline	4	33	15.2	15.2
single-discipline	5	38	17.5	17.5
can't say, NA	9	11	5.1	5.1
		217	100.0	100.0

[KESTO] Duration of the project in years

Question

Duration of the project in years

Descriptive statistics

statistic	value
number of valid cases	122
minimum	0.00
maximum	20.00
mean	3.56
standard deviation	2.90

[OPTKESTO] Optimal duration of the project (in years)

Question

Optimal duration of the project (in years)

Descriptive statistics

2. Variables

statistic	value
number of valid cases	128
minimum	0.00
maximum	21.00
mean	4.48
standard deviation	3.78

[F36A] If it is team research, how many members there are in the team?

Question

If it is team research, how many members there are in the team?

Frequencies

label	value	n	%	v. %
lone researcher	0	69	31.8	31.8
2-3 members	1	46	21.2	21.2
4-5 members	2	53	24.4	24.4
6-10 members	3	30	13.8	13.8
11-15 members	4	5	2.3	2.3
16-20 members	5	0	0.0	0.0
21-30 members	6	1	0.5	0.5
31-50 members	7	1	0.5	0.5
more than 50 members	8	2	0.9	0.9
can't say, NA	9	10	4.6	4.6
		217	100.0	100.0

[F36B1] Are the other project team members all from your department or also from elsewhere, from where (university and department)?

Question

Are the other project team members all from your department or also from elsewhere, from where (university and department)?

Frequencies

label	value	n	%	v. %
from my department	0	64	29.5	29.5
other department in the same university	1	12	5.5	5.5
another Finnish university	2	17	7.8	7.8

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(cont. from previous page)

label	value	n	%	v. %
Finnish research institute, incl. industrial research units	3	27	12.4	12.4
Scandinavia	4	4	1.8	1.8
elsewhere in Europe	5	8	3.7	3.7
USA	6	1	0.5	0.5
rest of the world	7	2	0.9	0.9
not relevant	8	66	30.4	30.4
can't say, NA	9	16	7.4	7.4
		217	100.0	100.0

[F36B2] Are the other project team members all from your department or also from elsewhere, from where (university and department)?

Question

Are the other project team members all from your department or also from elsewhere, from where (university and department)?

Frequencies

label	value	n	%	v. %
from my department	0	1	0.5	0.5
other department in the same university	1	2	0.9	0.9
another Finnish university	2	17	7.8	7.8
Finnish research institute, incl. industrial research units	3	11	5.1	5.1
Scandinavia	4	3	1.4	1.4
elsewhere in Europe	5	5	2.3	2.3
USA	6	1	0.5	0.5
rest of the world	7	2	0.9	0.9
not relevant	8	38	17.5	17.5
can't say, NA	9	137	63.1	63.1
		217	100.0	100.0

[F36B3] Are the other project team members all from your department or also from elsewhere, from where (university and department)?

Question

Are the other project team members all from your department or also from elsewhere, from where (university and department)?

2. Variables

Frequencies

label	value	n	%	v. %
from my department	0	1	0.5	0.5
other department in the same university	1	1	0.5	0.5
another Finnish university	2	2	0.9	0.9
Finnish research institute, incl. industrial research units	3	2	0.9	0.9
Scandinavia	4	2	0.9	0.9
elsewhere in Europe	5	7	3.2	3.2
USA	6	1	0.5	0.5
rest of the world	7	2	0.9	0.9
not relevant	8	38	17.5	17.5
can't say, NA	9	161	74.2	74.2
		217	100.0	100.0

[F37] Are you involved in other research projects? If 'yes', how many?

Question

Are you involved in other research projects? If 'yes', how many?

Frequencies

label	value	n	%	v. %
no other projects	0	120	55.3	55.3
1 other project	1	46	21.2	21.2
2 other projects	2	20	9.2	9.2
3 other projects	3	14	6.5	6.5
4-5 other projects	4	6	2.8	2.8
6-10 other projects	5	5	2.3	2.3
11-15 other projects	6	0	0.0	0.0
16-20 other projects	7	0	0.0	0.0
21-30 other projects	8	1	0.5	0.5
NA	9	5	2.3	2.3
		217	100.0	100.0

[F38A] The number of other research teams in Finland

Question

The number of other research teams in Finland

Frequencies

label	value	n	%	v. %
none	0	59	27.2	27.2
1 team	1	28	12.9	12.9
2-5 teams	2	72	33.2	33.2
6-10 teams	3	22	10.1	10.1
11-30 teams	4	7	3.2	3.2
over 30 teams	5	10	4.6	4.6
NA, can't say, many	9	19	8.8	8.8
		217	100.0	100.0

[F38B] The number of other research teams abroad

Question

The number of other research teams abroad

Frequencies

label	value	n	%	v. %
none	0	8	3.7	3.7
1 team	1	3	1.4	1.4
2-5 teams	2	24	11.1	11.1
6-10 teams	3	20	9.2	9.2
11-30 teams	4	14	6.5	6.5
over 30 teams	5	94	43.3	43.3
NA, can't say, many	9	54	24.9	24.9
		217	100.0	100.0

[F39A] The location of the most important research teams in Finland (team A)

Question

The location of the most important research teams in Finland (team A)

Frequencies

label	value	n	%	v. %
same department	0	8	3.7	3.7
other department but same university	1	21	9.7	9.7
other Finnish university	2	82	37.8	37.8

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
Finnish research institute, incl. industrial research units	3	26	12.0	12.0
not relevant	8	63	29.0	29.0
NA, can't say	9	17	7.8	7.8
		217	100.0	100.0

[F39B] The location of the most important research teams in Finland (team B)

Question

The location of the most important research teams in Finland (team B)

Frequencies

label	value	n	%	v. %
same department	0	6	2.8	2.8
other department but same university	1	15	6.9	6.9
other Finnish university	2	51	23.5	23.5
Finnish research institute, incl. industrial research units	3	31	14.3	14.3
not relevant	8	88	40.6	40.6
NA, can't say	9	26	12.0	12.0
		217	100.0	100.0

[F39C] The location of the most important research teams in Finland (team C)

Question

The location of the most important research teams in Finland (team C)

Frequencies

label	value	n	%	v. %
same department	0	2	0.9	0.9
other department but same university	1	4	1.8	1.8
other Finnish university	2	30	13.8	13.8

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(cont. from previous page)

label	value	n	%	v. %
Finnish research institute, incl. industrial research units	3	20	9.2	9.2
not relevant	8	129	59.4	59.4
NA, can't say	9	32	14.7	14.7
		217	100.0	100.0

[F39SS] How many teams from Finland mentioned altogether?

Question

How many teams from Finland mentioned altogether?

Frequencies

label	value	n	%	v. %
	1	34	15.7	15.7
	2	48	22.1	22.1
	3	55	25.3	25.3
not relevant	8	63	29.0	29.0
NA, can't say	9	17	7.8	7.8
		217	100.0	100.0

[F39D] The location of the most important research teams abroad (team D)

Question

The location of the most important research teams abroad (team D)

Frequencies

label	value	n	%	v. %
Scandinavia	4	29	13.4	13.4
elsewhere in Europe	5	47	21.7	21.7
USA	6	57	26.3	26.3
rest of the world	7	17	7.8	7.8
not relevant	8	36	16.6	16.6
NA, can't say	9	31	14.3	14.3
		217	100.0	100.0

[F39E] The location of the most important research teams abroad (team E)**Question**

The location of the most important research teams abroad (team E)

Frequencies

label	value	n	%	v. %
Scandinavia	4	10	4.6	4.6
elsewhere in Europe	5	59	27.2	27.2
USA	6	40	18.4	18.4
rest of the world	7	15	6.9	6.9
not relevant	8	60	27.6	27.6
NA, can't say	9	33	15.2	15.2
		217	100.0	100.0

[F39F] The location of the most important research teams abroad (team F)**Question**

The location of the most important research teams abroad (team F)

Frequencies

label	value	n	%	v. %
Scandinavia	4	7	3.2	3.2
elsewhere in Europe	5	49	22.6	22.6
USA	6	31	14.3	14.3
rest of the world	7	10	4.6	4.6
not relevant	8	82	37.8	37.8
NA, can't say	9	38	17.5	17.5
		217	100.0	100.0

[F39SU] How many teams from abroad mentioned altogether?**Question**

How many teams from abroad mentioned altogether?

Frequencies

label	value	n	%	v. %
	1	25	11.5	11.5
	2	29	13.4	13.4
	3	96	44.2	44.2
not relevant	8	36	16.6	16.6
NA, can't say	9	31	14.3	14.3
		217	100.0	100.0

[F40SA] In how many different ways has been in contact with team A?

Question

In how many different ways has been in contact with team A?

Frequencies

label	value	n	%	v. %
	0	16	7.4	7.4
	1	32	14.7	14.7
	2	26	12.0	12.0
	3	23	10.6	10.6
	4	18	8.3	8.3
	5	10	4.6	4.6
	6	9	4.1	4.1
not relevant	8	83	38.2	38.2
		217	100.0	100.0

[F40SB] In how many different ways has been in contact with team B?

Question

In how many different ways has been in contact with team B?

Frequencies

label	value	n	%	v. %
	0	10	4.6	4.6
	1	32	14.7	14.7
	2	18	8.3	8.3
	3	13	6.0	6.0
	4	11	5.1	5.1
	5	7	3.2	3.2

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
	6	8	3.7	3.7
not relevant	8	118	54.4	54.4
		217	100.0	100.0

[F40SC] In how many different ways has been in contact with team C?

Question

In how many different ways has been in contact with team C?

Frequencies

label	value	n	%	v. %
	0	9	4.1	4.1
	1	7	3.2	3.2
	2	17	7.8	7.8
	3	10	4.6	4.6
	4	6	2.8	2.8
	5	4	1.8	1.8
	6	2	0.9	0.9
not relevant	8	162	74.7	74.7
		217	100.0	100.0

[F40SD] In how many different ways has been in contact with team D?

Question

In how many different ways has been in contact with team D?

Frequencies

label	value	n	%	v. %
	0	37	17.1	17.1
	1	32	14.7	14.7
	2	33	15.2	15.2
	3	20	9.2	9.2
	4	12	5.5	5.5
	5	8	3.7	3.7
	6	5	2.3	2.3

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label	value	n	%	v. %
not relevant	8	70	32.3	32.3
		217	100.0	100.0

[F40SE] In how many different ways has been in contact with team E?**Question***In how many different ways has been in contact with team E?***Frequencies**

label	value	n	%	v. %
	0	38	17.5	17.5
	1	25	11.5	11.5
	2	25	11.5	11.5
	3	15	6.9	6.9
	4	9	4.1	4.1
	5	6	2.8	2.8
	6	6	2.8	2.8
not relevant	8	93	42.9	42.9
		217	100.0	100.0

[F40SF] In how many different ways has been in contact with team F?**Question***In how many different ways has been in contact with team F?***Frequencies**

label	value	n	%	v. %
	0	31	14.3	14.3
	1	27	12.4	12.4
	2	11	5.1	5.1
	3	10	4.6	4.6
	4	6	2.8	2.8
	5	5	2.3	2.3
	6	1	0.5	0.5
not relevant	8	126	58.1	58.1

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
		217	100.0	100.0

[F40DA1] Correspondence with team A

Question

Correspondence with team A

Frequencies

label	value	n	%	v. %
no	0	84	38.7	38.7
yes	1	49	22.6	22.6
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DA2] Occasional visits with team A

Question

Occasional visits with team A

Frequencies

label	value	n	%	v. %
no	0	50	23.0	23.0
yes	1	83	38.2	38.2
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DA3] Exchange of written information (publications, offprints etc) with team A

Question

Exchange of written information (publications, offprints etc) with team A

Frequencies

label	value	n	%	v. %
no	0	60	27.6	27.6
yes	1	73	33.6	33.6
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DA4] Joint publications with team A

Question

Joint publications with team A

Frequencies

label	value	n	%	v. %
no	0	105	48.4	48.4
yes	1	28	12.9	12.9
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DA5] Research co-operation with team A

Question

Research co-operation with team A

Frequencies

label	value	n	%	v. %
no	0	73	33.6	33.6
yes	1	60	27.6	27.6
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DA6] Education co-operation with team A

Question

Education co-operation with team A

2. Variables

Frequencies

label	value	n	%	v. %
no	0	99	45.6	45.6
yes	1	34	15.7	15.7
this team not mentioned	8	77	35.5	35.5
can't say, NA	9	7	3.2	3.2
		217	100.0	100.0

[F40DB1] Correspondence with team B

Question

Correspondence with team B

Frequencies

label	value	n	%	v. %
no	0	61	28.1	28.1
yes	1	38	17.5	17.5
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DB2] Occasional visits with team B

Question

Occasional visits with team B

Frequencies

label	value	n	%	v. %
no	0	45	20.7	20.7
yes	1	54	24.9	24.9
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DB3] Exchange of written information (publications, offprints etc) with team B

Question

Exchange of written information (publications, offprints etc) with team B

Frequencies

label	value	n	%	v. %
no	0	48	22.1	22.1
yes	1	51	23.5	23.5
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DB4] Joint publications with team B

Question

Joint publications with team B

Frequencies

label	value	n	%	v. %
no	0	75	34.6	34.6
yes	1	24	11.1	11.1
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DB5] Research co-operation with team B

Question

Research co-operation with team B

Frequencies

label	value	n	%	v. %
no	0	56	25.8	25.8

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
yes	1	43	19.8	19.8
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DB6] Education co-operation with team B

Question

Education co-operation with team B

Frequencies

label	value	n	%	v. %
no	0	75	34.6	34.6
yes	1	24	11.1	11.1
this team not mentioned	8	110	50.7	50.7
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DC1] Correspondence with team C

Question

Correspondence with team C

Frequencies

label	value	n	%	v. %
no	0	35	16.1	16.1
yes	1	20	9.2	9.2
this team not mentioned	8	157	72.4	72.4
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DC2] Occasional visits with team C

Question

Occasional visits with team C

Frequencies

label	value	n	%	v. %
no	0	23	10.6	10.6
yes	1	32	14.7	14.7
this team not mentioned	8	157	72.4	72.4
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DC3] Exchange of written information (publications, offprints etc) with team C**Question**

Exchange of written information (publications, offprints etc) with team C

Frequencies

label	value	n	%	v. %
no	0	27	12.4	12.4
yes	1	28	12.9	12.9
this team not mentioned	8	157	72.4	72.4
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DC4] Joint publications with team C**Question**

Joint publications with team C

Frequencies

label	value	n	%	v. %
no	0	44	20.3	20.3
yes	1	11	5.1	5.1
this team not mentioned	8	157	72.4	72.4
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DC5] Research co-operation with team C**Question***Research co-operation with team C***Frequencies**

label	value	n	%	v. %
no	0	32	14.7	14.7
yes	1	23	10.6	10.6
this team not mentioned	8	157	72.4	72.4
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DC6] Education co-operation with team C**Question***Education co-operation with team C***Frequencies**

label	value	n	%	v. %
no	0	43	19.8	19.8
yes	1	13	6.0	6.0
this team not mentioned	8	156	71.9	71.9
can't say, NA	9	5	2.3	2.3
		217	100.0	100.0

[F40DD1] Correspondence with team D**Question***Correspondence with team D***Frequencies**

label	value	n	%	v. %
no	0	83	38.2	38.2
yes	1	67	30.9	30.9

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(cont. from previous page)

label	value	n	%	v. %
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DD2] Occasional visits with team D**Question***Occasional visits with team D***Frequencies**

label	value	n	%	v. %
no	0	87	40.1	40.1
yes	1	63	29.0	29.0
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DD3] Exchange of written information (publications, offprints etc) with team D**Question***Exchange of written information (publications, offprints etc) with team D***Frequencies**

label	value	n	%	v. %
no	0	83	38.2	38.2
yes	1	67	30.9	30.9
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DD4] Joint publications with team D**Question***Joint publications with team D*

2. Variables

Frequencies

label	value	n	%	v. %
no	0	125	57.6	57.6
yes	1	25	11.5	11.5
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DD5] Research co-operation with team D

Question

Research co-operation with team D

Frequencies

label	value	n	%	v. %
no	0	110	50.7	50.7
yes	1	40	18.4	18.4
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DD6] Education co-operation with team D

Question

Education co-operation with team D

Frequencies

label	value	n	%	v. %
no	0	135	62.2	62.2
yes	1	15	6.9	6.9
this team not mentioned	8	59	27.2	27.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE1] Correspondence with team E

Question

Correspondence with team E

Frequencies

label	value	n	%	v. %
no	0	69	31.8	31.8
yes	1	55	25.3	25.3
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE2] Occasional visits with team E**Question**

Occasional visits with team E

Frequencies

label	value	n	%	v. %
no	0	73	33.6	33.6
yes	1	51	23.5	23.5
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE3] Exchange of written information (publications, offprints etc) with team E**Question**

Exchange of written information (publications, offprints etc) with team E

Frequencies

label	value	n	%	v. %
no	0	74	34.1	34.1
yes	1	50	23.0	23.0
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE4] Joint publications with team E**Question***Joint publications with team E***Frequencies**

label	value	n	%	v. %
no	0	105	48.4	48.4
yes	1	19	8.8	8.8
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE5] Research co-operation with team E**Question***Research co-operation with team E***Frequencies**

label	value	n	%	v. %
no	0	97	44.7	44.7
yes	1	27	12.4	12.4
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DE6] Education co-operation with team E**Question***Education co-operation with team E***Frequencies**

label	value	n	%	v. %
no	0	109	50.2	50.2
yes	1	15	6.9	6.9

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(cont. from previous page)

label	value	n	%	v. %
this team not mentioned	8	85	39.2	39.2
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F40DF1] Correspondence with team F

Question

Correspondence with team F

Frequencies

label	value	n	%	v. %
no	0	59	27.2	27.2
yes	1	33	15.2	15.2
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F40DF2] Occasional visits with team F

Question

Occasional visits with team F

Frequencies

label	value	n	%	v. %
no	0	64	29.5	29.5
yes	1	28	12.9	12.9
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F40DF3] Exchange of written information (publications, offprints etc) with team F

Question

Exchange of written information (publications, offprints etc) with team F

2. Variables

Frequencies

label	value	n	%	v. %
no	0	54	24.9	24.9
yes	1	38	17.5	17.5
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F40DF4] Joint publications with team F

Question

Joint publications with team F

Frequencies

label	value	n	%	v. %
no	0	81	37.3	37.3
yes	1	11	5.1	5.1
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F40DF5] Research co-operation with team F

Question

Research co-operation with team F

Frequencies

label	value	n	%	v. %
no	0	79	36.4	36.4
yes	1	13	6.0	6.0
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F40DF6] Education co-operation with team F

Question

Education co-operation with team F

Frequencies

label	value	n	%	v. %
no	0	85	39.2	39.2
yes	1	7	3.2	3.2
this team not mentioned	8	113	52.1	52.1
can't say, NA	9	12	5.5	5.5
		217	100.0	100.0

[F42] In addition to those teams with whom you are already in contact, would you like co-operate with yet other teams?

Question

In addition to those teams with whom you are already in contact, would you like co-operate with yet other teams?

Frequencies

label	value	n	%	v. %
yes	1	130	59.9	59.9
no	2	68	31.3	31.3
can't say, NA	9	19	8.8	8.8
		217	100.0	100.0

[F43A] What prevents the co-operation/contacts (first reason)?

Question

What prevents the co-operation/contacts (first reason)?

Frequencies

label	value	n	%	v. %
funding, problems with resources	0	23	10.6	10.6
time, family reasons	1	30	13.8	13.8
own passivity, laziness, shyness	2	9	4.1	4.1
competition between teams, economic interests	3	15	6.9	6.9
one-sidedness of interest, top teams not interested	4	6	2.8	2.8
own team not far enough, not yet the right time for it	5	18	8.3	8.3
not enough information about other teams	6	7	3.2	3.2
other	7	11	5.1	5.1

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
not relevant	8	79	36.4	36.4
no particular obstacles, can't say, NA	9	19	8.8	8.8
		217	100.0	100.0

[F43B] What prevents the co-operation/contacts (second reason)?

Question

What prevents the co-operation/contacts (second reason)?

Frequencies

label	value	n	%	v. %
funding, problems with resources	0	9	4.1	4.1
time, family reasons	1	8	3.7	3.7
own passivity, laziness, shyness	2	4	1.8	1.8
competition between teams, economic interests	3	1	0.5	0.5
one-sidedness of interest, top teams not interested	4	1	0.5	0.5
own team not far enough, not yet the right time for it	5	3	1.4	1.4
not enough information about other teams	6	3	1.4	1.4
other	7	5	2.3	2.3
not relevant	8	20	9.2	9.2
no particular obstacles, can't say, NA	9	163	75.1	75.1
		217	100.0	100.0

[F44] Which of the following research and development types describes your present research best?

Question

Which of the following research and development types describes your present research best?

Frequencies

label	value	n	%	v. %
basic research	1	125	57.6	57.6
applied research	2	60	27.6	27.6
experimental development research	3	21	9.7	9.7
other	4	3	1.4	1.4

(continued on next page)

(cont. from previous page)

label	value	n	%	v. %
not relevant	8	0	0.0	0.0
can't say, NA	9	8	3.7	3.7
		217	100.0	100.0

[F44V40] Which of the following research and development types describes your present research best?

Question

Which of the following research and development types describes your present research best?

Frequencies

label	value	n	%	v. %
basic research	1	7	3.2	4.1
applied research	2	6	2.8	3.5
experimental development research	3	2	0.9	1.2
other	4	0	0.0	0.0
not relevant	8	151	69.6	88.8
can't say, NA	9	4	1.8	2.4
System missing (SYSMIS)	.	47	21.7	—
		217	100.0	100.0

[F45] How would you characterize your research? Is it:

Question

How would you characterize your research? Is it:

Frequencies

label	value	n	%	v. %
mainly theoretical	0	21	9.7	9.7
mainly experimental (empirical)	1	66	30.4	30.4
mainly methodological	2	14	6.5	6.5
theoretical and experimental	3	35	16.1	16.1
theoretical and methodological	4	12	5.5	5.5
experimental and methodological	5	25	11.5	11.5
theoretical, experimental and methodological	6	37	17.1	17.1

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
can't say	9	7	3.2	3.2
		217	100.0	100.0

[F46] Thinking of the application potential (applicability) of your main research project, would you say that:

Question

Thinking of the application potential (applicability) of your main research project, would you say that:

Frequencies

label	value	n	%	v. %
results have no practical applications	0	10	4.6	4.6
practical applications not clear yet	1	30	13.8	13.8
application problems not solved yet	2	34	15.7	15.7
results have no applications now but will have later	3	63	29.0	29.0
some results have practical applications	4	54	24.9	24.9
results have widely used practical applications	5	16	7.4	7.4
can't say, NA	9	10	4.6	4.6
		217	100.0	100.0

[F47] How would you define the application level of your main research results in the scientific sense, with the help of examples displayed in the card

Question

How would you define the application level of your main research results in the scientific sense, with the help of examples displayed in the card

Frequencies

label	value	n	%	v. %
specific problem	1	29	13.4	13.4
problem area	2	44	20.3	20.4
research area	3	52	24.0	24.1
specialist subject area	4	40	18.4	18.5

(continued on next page)

(cont. from previous page)

label	value	n	%	v. %
research field	5	19	8.8	8.8
discipline	6	14	6.5	6.5
can't say, NA	9	18	8.3	8.3
System missing (SYSMIS)	.	1	0.5	–
		217	100.0	100.0

[F48A] How would you describe the present state of your own research area in terms of following characterizations: Largely standardised research methods, procedures and subjects

Question

How would you describe the present state of your own research area in terms of following characterizations: Largely standardised research methods, procedures and subjects

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	51	23.5	23.5
corresponds only slightly	2	63	29.0	29.0
description valid to some extent	3	46	21.2	21.2
a valid description	4	42	19.4	19.4
a very valid description	5	12	5.5	5.5
can't say	9	3	1.4	1.4
		217	100.0	100.0

[F48B] How would you describe the present state of your own research area in terms of following characterizations: The field is theoretically integrated and coordinated

Question

How would you describe the present state of your own research area in terms of following characterizations: The field is theoretically integrated and coordinated

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	40	18.4	18.4

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
corresponds only slightly	2	72	33.2	33.2
description valid to some extent	3	58	26.7	26.7
a valid description	4	29	13.4	13.4
a very valid description	5	9	4.1	4.1
can't say	9	9	4.1	4.1
		217	100.0	100.0

[F48C] How would you describe the present state of your own research area in terms of following characterizations: The field embraces a multitude of research objectives, concepts and approaches

Question

How would you describe the present state of your own research area in terms of following characterizations: The field embraces a multitude of research objectives, concepts and approaches

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	7	3.2	3.2
corresponds only slightly	2	31	14.3	14.3
description valid to some extent	3	46	21.2	21.2
a valid description	4	73	33.6	33.6
a very valid description	5	57	26.3	26.3
can't say	9	3	1.4	1.4
		217	100.0	100.0

[F48D] How would you describe the present state of your own research area in terms of following characterizations: The field has been fragmented into many subfields/specialities

Question

How would you describe the present state of your own research area in terms of following characterizations: The field has been fragmented into many subfields/specialities

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	9	4.1	4.1
corresponds only slightly	2	19	8.8	8.8
description valid to some extent	3	59	27.2	27.2
a valid description	4	75	34.6	34.6
a very valid description	5	51	23.5	23.5
can't say	9	4	1.8	1.8
		217	100.0	100.0

[F48E] How would you describe the present state of your own research area in terms of following characterizations: Rigorous division of work in research tasks and and expertise

Question

How would you describe the present state of your own research area in terms of following characterizations: Rigorous division of work in research tasks and and expertise

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	66	30.4	30.4
corresponds only slightly	2	80	36.9	36.9
description valid to some extent	3	39	18.0	18.0
a valid description	4	24	11.1	11.1
a very valid description	5	4	1.8	1.8
can't say	9	4	1.8	1.8
		217	100.0	100.0

[F48F] How would you describe the present state of your own research area in terms of following characterizations: The field is divided into different schools of thought and research practices

Question

How would you describe the present state of your own research area in terms of following characterizations: The field is divided into different schools of thought and research practices

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	36	16.6	16.6

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
corresponds only slightly	2	47	21.7	21.7
description valid to some extent	3	67	30.9	30.9
a valid description	4	52	24.0	24.0
a very valid description	5	10	4.6	4.6
can't say	9	5	2.3	2.3
		217	100.0	100.0

[F48G] Researchers of this field have profound scientific disagreements over a great number of issues

Question

Researchers of this field have profound scientific disagreements over a great number of issues

Frequencies

label	value	n	%	v. %
does not correspond at all with the present state	1	45	20.7	20.7
corresponds only slightly	2	73	33.6	33.6
description valid to some extent	3	46	21.2	21.2
a valid description	4	37	17.1	17.1
a very valid description	5	10	4.6	4.6
can't say	9	6	2.8	2.8
		217	100.0	100.0

[F49A] In your opinion, what would be the most important characteristics of high quality research in your area (first mention)?

Question

In your opinion, what would be the most important characteristics of high quality research in your area (first mention)?

Frequencies

label	value	n	%	v. %
validity, objectivity	0	7	3.2	3.2
sound and well-defined research design	1	27	12.4	12.4
methodology: reliability, stability	2	42	19.4	19.4

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(cont. from previous page)

label	value	n	%	v. %
hi quality on theoretical level, scientifically significant	3	22	10.1	10.1
high quality in international comparison	4	2	0.9	0.9
innovativeness, originality, creativity	5	57	26.3	26.3
versatility, diversity	6	7	3.2	3.2
utility to practice, applicability	7	42	19.4	19.4
other	8	9	4.1	4.1
can't say, NA	9	2	0.9	0.9
		217	100.0	100.0

[F49B] In your opinion, what would be the most important characteristics of high quality research in your area (second mention)?

Question

In your opinion, what would be the most important characteristics of high quality research in your area (second mention)?

Frequencies

label	value	n	%	v. %
validity, objectivity	0	4	1.8	1.8
sound and well-defined research design	1	10	4.6	4.6
methodology: reliability, stability	2	37	17.1	17.1
hi quality on theoretical level, scientifically significant	3	23	10.6	10.6
high quality in international comparison	4	3	1.4	1.4
innovativeness, originality, creativity	5	28	12.9	12.9
versatility, diversity	6	11	5.1	5.1
utility to practice, applicability	7	40	18.4	18.4
other	8	20	9.2	9.2
can't say, NA	9	41	18.9	18.9
		217	100.0	100.0

[F49C] In your opinion, what would be the most important characteristics of high quality research in your area (third mention)?

Question

In your opinion, what would be the most important characteristics of high quality research in your area (third mention)?

2. Variables

Frequencies

label	value	n	%	v. %
validity, objectivity	0	4	1.8	1.8
sound and well-defined research design	1	5	2.3	2.3
methodology: reliability, stability	2	8	3.7	3.7
hi quality on theoretical level, scientifically significant	3	9	4.1	4.1
high quality in international comparison	4	1	0.5	0.5
innovativeness, originality, creativity	5	9	4.1	4.1
versatility, diversity	6	13	6.0	6.0
utility to practice, applicability	7	19	8.8	8.8
other	8	25	11.5	11.5
can't say, NA	9	124	57.1	57.1
		217	100.0	100.0

[F50A] Rate the relative importance of each characteristics in your own research field: Validity (truthfulness, objectivity, accuracy)

Question

Rate the relative importance of each characteristics in your own research field: Validity (truthfulness, objectivity, accuracy)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	2	0.9	0.9
not very important	2	4	1.8	1.8
important	3	24	11.1	11.1
very important	4	184	84.8	84.8
can't say, NA	9	3	1.4	1.4
		217	100.0	100.0

[F50B] Rate the relative importance of each characteristics in your own research field: Innovativeness (originality, creativity, pioneer spirit)

Question

Rate the relative importance of each characteristics in your own research field: Innovativeness (originality, creativity, pioneer spirit)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	0	0.0	0.0
not very important	2	22	10.1	10.1
important	3	97	44.7	44.7
very important	4	97	44.7	44.7
can't say, NA	9	1	0.5	0.5
		217	100.0	100.0

[F50C] Rate the relative importance of each characteristics in your own research field: 'Simplicity' (clarity, presentation method, elegance)

Question

Rate the relative importance of each characteristics in your own research field: 'Simplicity' (clarity, presentation method, elegance)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	6	2.8	2.8
not very important	2	54	24.9	24.9
important	3	109	50.2	50.2
very important	4	47	21.7	21.7
can't say, NA	9	1	0.5	0.5
		217	100.0	100.0

[F50D] Rate the relative importance of each characteristics in your own research field: Contribution to the research (scientific progress, advancement of scientific knowledge, theory and methodology)

Question

Rate the relative importance of each characteristics in your own research field: Contribution to the research (scientific progress, advancement of scientific knowledge, theory and methodology)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	1	0.5	0.5
not very important	2	31	14.3	14.3
important	3	102	47.0	47.0
very important	4	82	37.8	37.8

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
can't say, NA	9	1	0.5	0.5
		217	100.0	100.0

[F50E] Rate the relative importance of each characteristics in your own research field: Contribution beyond the research area (utility to practice, significance to society)

Question

Rate the relative importance of each characteristics in your own research field: Contribution beyond the research area (utility to practice, significance to society)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	13	6.0	6.0
not very important	2	53	24.4	24.4
important	3	77	35.5	35.5
very important	4	73	33.6	33.6
can't say, NA	9	1	0.5	0.5
		217	100.0	100.0

[F50F] Rate the relative importance of each characteristics in your own research field: Productivity (a great volume of publication output, quantity)

Question

Rate the relative importance of each characteristics in your own research field: Productivity (a great volume of publication output, quantity)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	43	19.8	19.8
not very important	2	124	57.1	57.1
important	3	37	17.1	17.1
very important	4	12	5.5	5.5
can't say, NA	9	1	0.5	0.5
		217	100.0	100.0

[F50G] Rate the relative importance of each characteristics in your own research field: International visibility (international publications, international reputation, contacts abroad)

Question

Rate the relative importance of each characteristics in your own research field: International visibility (international publications, international reputation, contacts abroad)

Frequencies

label	value	n	%	v. %
not at all important or not relevant	1	2	0.9	0.9
not very important	2	45	20.7	20.7
important	3	102	47.0	47.0
very important	4	64	29.5	29.5
can't say, NA	9	4	1.8	1.8
		217	100.0	100.0

[F51A] In your opinion, what should be the most important criteria of scientific success in your research area (first mention)

Question

In your opinion, what should be the most important criteria of scientific success in your research area (first mention)

Frequencies

label	value	n	%	v. %
research objectives are attained	0	3	1.4	1.4
objectivity, thoroughness, validity of findings etc	1	14	6.5	6.5
contribution to the research field and theory	2	16	7.4	7.4
quality in general, quality of research	3	39	18.0	18.0
publication output, number of publications	4	13	6.0	6.0
quality of publications, quality of their content	5	9	4.1	4.1
publication channel, publications in esteemed journals	6	3	1.4	1.4
esteem of international scient. community, int. publications	7	13	6.0	6.0
summarization of results in postgraduate research	8	4	1.8	1.8
innovativeness, originality, creativity	9	37	17.1	17.1

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2. Variables

(cont. from previous page)

label	value	n	%	v. %
practical, economical and societal utility	10	43	19.8	19.8
not (merely) the volume of publications or citations	11	5	2.3	2.3
other	12	11	5.1	5.1
can't say, NA	13	7	3.2	3.2
		217	100.0	100.0

[F51B] In your opinion, what should be the most important criteria of scientific success in your research area (second mention)

Question

In your opinion, what should be the most important criteria of scientific success in your research area (second mention)

Frequencies

label	value	n	%	v. %
research objectives are attained	0	3	1.4	1.4
objectivity, thoroughness, validity of findings etc	1	8	3.7	3.7
contribution to the research field and theory	2	8	3.7	3.7
quality in general, quality of research	3	3	1.4	1.4
publication output, number of publications	4	7	3.2	3.2
quality of publications, quality of their content	5	3	1.4	1.4
publication channel, publications in esteemed journals	6	0	0.0	0.0
esteem of international scient. community, int. publications	7	5	2.3	2.3
summarization of results in postgraduate research	8	0	0.0	0.0
innovativeness, originality, creativity	9	13	6.0	6.0
practical, economical and societal utility	10	19	8.8	8.8
not (merely) the volume of publications or citations	11	5	2.3	2.3
other	12	2	0.9	0.9
can't say, NA	13	141	65.0	65.0
		217	100.0	100.0

[F51C] In your opinion, what should be the most important criteria of scientific success in your research area (third mention)

Question

In your opinion, what should be the most important criteria of scientific success in your research area (third mention)

Frequencies

label	value	n	%	v. %
research objectives are attained	0	0	0.0	0.0
objectivity, thoroughness, validity of findings etc	1	1	0.5	0.5
contribution to the research field and theory	2	4	1.8	1.8
quality in general, quality of research	3	0	0.0	0.0
publication output, number of publications	4	1	0.5	0.5
quality of publications, quality of their content	5	0	0.0	0.0
publication channel, publications in esteemed journals	6	1	0.5	0.5
esteem of international scient. community, int. publications	7	1	0.5	0.5
summarization of results in postgraduate research	8	0	0.0	0.0
innovativeness, originality, creativity	9	5	2.3	2.3
practical, economical and societal utility	10	2	0.9	0.9
not (merely) the volume of publications or citations	11	1	0.5	0.5
other	12	2	0.9	0.9
can't say, NA	13	199	91.7	91.7
		217	100.0	100.0

[F52A] In your opinion, which indicators could be used to measure the successfulness of research (first mention)**Question**

In your opinion, which indicators could be used to measure the successfulness of research (first mention)

Frequencies

label	value	n	%	v. %
volume of publication output	1	14	6.5	6.5
quality and importance of publications, publication channel	2	24	11.1	11.1
international publications	3	11	5.1	5.1
international duties and activities	4	0	0.0	0.0
peer reviews	5	22	10.1	10.1
international evaluation, international panel	6	6	2.8	2.8
citations and other bibliometric indicators	7	14	6.5	6.5
Impact factor, summarized references	8	7	3.2	3.2
funding	9	1	0.5	0.5
practical applications, applicability of findings	10	29	13.4	13.4

(continued on next page)

2. Variables

(cont. from previous page)

label	value	n	%	v. %
number of degrees or theses	11	0	0.0	0.0
not (merely) the volume of publications or citations	12	12	5.5	5.5
not possible to have one uniform, objective measurement	13	22	10.1	10.1
other	14	12	5.5	5.5
can't say, NA	15	43	19.8	19.8
		217	100.0	100.0

[F52B] In your opinion, which indicators could be used to measure the successfulness of research (second mention)

Question

In your opinion, which indicators could be used to measure the successfulness of research (second mention)

Frequencies

label	value	n	%	v. %
volume of publication output	1	6	2.8	2.8
quality and importance of publications, publication channel	2	12	5.5	5.5
international publications	3	3	1.4	1.4
international duties and activities	4	5	2.3	2.3
peer reviews	5	7	3.2	3.2
international evaluation, international panel	6	1	0.5	0.5
citations and other bibliometric indicators	7	7	3.2	3.2
Impact factor, summarized references	8	2	0.9	0.9
funding	9	1	0.5	0.5
practical applications, applicability of findings	10	11	5.1	5.1
number of degrees or theses	11	5	2.3	2.3
not (merely) the volume of publications or citations	12	7	3.2	3.2
not possible to have one uniform, objective measurement	13	2	0.9	0.9
other	14	8	3.7	3.7
can't say, NA	15	140	64.5	64.5
		217	100.0	100.0

[F52C] In your opinion, which indicators could be used to measure the successfulness of research (third mention)

Question

In your opinion, which indicators could be used to measure the successfulness of research (third mention)

Frequencies

label	value	n	%	v. %
volume of publication output	1	3	1.4	1.4
quality and importance of publications, publication channel	2	2	0.9	0.9
international publications	3	1	0.5	0.5
international duties and activities	4	0	0.0	0.0
peer reviews	5	0	0.0	0.0
international evaluation, international panel	6	1	0.5	0.5
citations and other bibliometric indicators	7	2	0.9	0.9
Impact factor, summarized references	8	0	0.0	0.0
funding	9	0	0.0	0.0
practical applications, applicability of findings	10	1	0.5	0.5
number of degrees or theses	11	3	1.4	1.4
not (merely) the volume of publications or citations	12	1	0.5	0.5
not possible to have one uniform, objective measurement	13	2	0.9	0.9
other	14	0	0.0	0.0
can't say, NA	15	201	92.6	92.6
		217	100.0	100.0

[IKA] Respondent's age

Question

Respondent's age

Descriptive statistics

statistic	value
number of valid cases	216
minimum	22.00
maximum	70.00
mean	36.75

(continued on next page)

2. Variables

(cont. from previous page)

statistic	value
standard deviation	10.45

[A5NOCOD] Respondent's research experience in years

Question

Respondent's research experience in years

Descriptive statistics

statistic	value
number of valid cases	217
minimum	0.00
maximum	46.00
mean	9.18
standard deviation	9.71

[TIETJULK] Number of scientific publications

Question

Number of scientific publications

Descriptive statistics

statistic	value
number of valid cases	210
minimum	0.00
maximum	70.00
mean	4.87
standard deviation	8.41

[TUOTK1] Volume of scientific output published in Finland 1986 - 1988: Books/monographs (if dissertation, please note)

Question

Volume of scientific output published in Finland 1986 - 1988: Books/monographs (if dissertation, please note)

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	1.00
mean	0.05
standard deviation	0.22

[TUOTK2] Volume of scientific output published in Finland 1986 - 1988: Textbooks**Question**

Volume of scientific output published in Finland 1986 - 1988: Textbooks

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	4.00
mean	0.07
standard deviation	0.42

[TUOTK3] Volume of scientific output published in Finland 1986 - 1988: Editing jointly authored books**Question**

Volume of scientific output published in Finland 1986 - 1988: Editing jointly authored books

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	3.00
mean	0.03
standard deviation	0.26

**[TUOTK4] Volume of scientific output published in Finland 1986 - 1988:
Original articles in scientific journals and jointly authored books**

Question

Volume of scientific output published in Finland 1986 - 1988: Original articles in scientific journals and jointly authored books

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	14.00
mean	0.90
standard deviation	2.07

**[TUOTK5] Volume of scientific output published in Finland 1986 - 1988:
University, research institute or university department series**

Question

Volume of scientific output published in Finland 1986 - 1988: University, research institute or university department series

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	25.00
mean	0.81
standard deviation	2.48

**[TUOTK6] Volume of scientific output published in Finland 1986 - 1988:
Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)**

Question

Volume of scientific output published in Finland 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	4.00
mean	0.20
standard deviation	0.63

[TUOTK7] Volume of scientific output published in Finland 1986 - 1988: Abstracts**Question**

Volume of scientific output published in Finland 1986 - 1988: Abstracts

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	8.00
mean	0.30
standard deviation	1.00

[TUOTK8] Volume of scientific output published in Finland 1986 - 1988: Patents or patent applications**Question**

Volume of scientific output published in Finland 1986 - 1988: Patents or patent applications

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	2.00
mean	0.04
standard deviation	0.25

**[TUOTK9] Volume of scientific output published in Finland 1986 - 1988:
Other scientific or technical products (e.g. algorithms, software, prototypes,
experimental material)**

Question

Volume of scientific output published in Finland 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material)

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	7.00
mean	0.20
standard deviation	0.88

**[TUOTK10] Volume of scientific output published in Finland 1986 - 1988:
Non-scientific publications, newspaper or magazine articles, radio or tv
programmes, other learning material than monographs**

Question

Volume of scientific output published in Finland 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	60.00
mean	1.91
standard deviation	7.40

**[TUOTK11] Volume of scientific output published in Finland 1986 - 1988:
Scientific journals**

Question

Volume of scientific output published in Finland 1986 - 1988: Scientific journals

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	14.00
mean	0.84
standard deviation	2.06

**[TUOTK12] Volume of scientific output published in Finland 1986 - 1988:
Jointly authored scientific books and proceedings books published by well-
know publishers**

Question

Volume of scientific output published in Finland 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	2.00
mean	0.06
standard deviation	0.29

**[TUOTK13] Volume of scientific output published in Finland 1986 - 1988:
Other learning material than textbooks**

Question

Volume of scientific output published in Finland 1986 - 1988: Other learning material than textbooks

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	32.00

(continued on next page)

2. Variables

(cont. from previous page)

statistic	value
mean	0.26
standard deviation	2.49

[TUOTU1] Volume of scientific output published abroad 1986 - 1988: Books/monographs (if dissertation, please note)

Question

Volume of scientific output published abroad 1986 - 1988: Books/monographs (if dissertation, please note)

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	0.00
mean	0.00
standard deviation	0.00

[TUOTU2] Volume of scientific output published abroad 1986 - 1988: Textbooks

Question

Volume of scientific output published abroad 1986 - 1988: Textbooks

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	1.00
mean	0.01
standard deviation	0.08

[TUOTU3] Volume of scientific output published abroad 1986 - 1988: Editing jointly authored books

Question

Volume of scientific output published abroad 1986 - 1988: Editing jointly authored books

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	0.00
mean	0.00
standard deviation	0.00

[TUOTU4] Volume of scientific output published abroad 1986 - 1988: Original articles in scientific journals and jointly authored books

Question

Volume of scientific output published abroad 1986 - 1988: Original articles in scientific journals and jointly authored books

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	37.00
mean	2.27
standard deviation	5.25

[TUOTU5] Volume of scientific output published abroad 1986 - 1988: University, research institute or university department series

Question

Volume of scientific output published abroad 1986 - 1988: University, research institute or university department series

Descriptive statistics

2. Variables

statistic	value
number of valid cases	207
minimum	0.00
maximum	1.00
mean	0.01
standard deviation	0.10

[TUOTU6] Volume of scientific output published abroad 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)

Question

Volume of scientific output published abroad 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	9.00
mean	0.39
standard deviation	1.30

[TUOTU7] Volume of scientific output published abroad 1986 - 1988: Abstracts

Question

Volume of scientific output published abroad 1986 - 1988: Abstracts

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	48.00
mean	2.11
standard deviation	5.79

[TUOTU8] Volume of scientific output published abroad 1986 - 1988: Patents or patent applications

Question

Volume of scientific output published abroad 1986 - 1988: Patents or patent applications

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	4.00
mean	0.05
standard deviation	0.36

[TUOTU9] Volume of scientific output published abroad 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material)

Question

Volume of scientific output published abroad 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material)

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	2.00
mean	0.02
standard deviation	0.19

[TUOTU10] Volume of scientific output published abroad 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs

Question

Volume of scientific output published abroad 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs

Descriptive statistics

statistic	value
number of valid cases	170
minimum	0.00
maximum	3.00
mean	0.04
standard deviation	0.27

[TUOTU11] Volume of scientific output published abroad 1986 - 1988: Scientific journals

Question

Volume of scientific output published abroad 1986 - 1988: Scientific journals

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	30.00
mean	1.99
standard deviation	4.67

[TUOTU12] Volume of scientific output published abroad 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers

Question

Volume of scientific output published abroad 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers

Descriptive statistics

statistic	value
number of valid cases	207
minimum	0.00
maximum	7.00
mean	0.28

(continued on next page)

(cont. from previous page)

statistic	value
standard deviation	0.93

Chapter 3

Indexes

3.1 Variables in the order of occurrence

FSD study number [FSD_NO]	5
FSD edition number [FSD_VR]	5
FSD case id [FSD_ID]	6
Koodauslomakkeen numero [KORTTI]	6
Respondent's department and university [LAITOS]	6
Your present position in the department [A1]	7
Respondent's year of birth [A2]	7
Respondent's sex [A3]	8
What is your highest degree? [A4]	8
Year when respondent completed Doctorate [A4A]	9
Year when respondent completed Licentiate [A4B]	9
Year when respondent graduated [A4C]	9
Respondent's research experience in years [A5]	10
Do you have experience of academic study abroad (min. 3 months)? [A6]	10
Foreign country/countries in which respondent studied [A6A]	10
Foreign degree (first) [A6B1]	11
Foreign degree (second) [A6B2]	11
Have you done research work abroad? [A7]	12
Research abroad, in which country (first)? [A7A]	12
Research abroad, in which country (second)? [A7B]	12
What proportion of your working time (in %) is devoted to research? [A8A]	13
What proportion of your working time (in %) is devoted to teaching? [A8B]	13

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What proportion of your working time (in %) is devoted to management/administration? [A8C]	14
What proportion of your working time (in %) is devoted to other tasks? [A8D]	14
What is your motivation for embarking on a scientific career (most important personal motive)? [B9A]	15
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What is your motivation for embarking on a scientific career (third most important personal motive)? [B9C]	16
What are your chances of creative work and self-fulfilment in your present working environment? Would you say that you: [B10]	17
Briefly describe these problems and constraints, or give examples of them (1. mention) [B11A]	17
Briefly describe these problems and constraints, or give examples of them (2. mention) [B11B]	18
Briefly describe these problems and constraints, or give examples of them (3. mention) [B11C]	18
Thinking of your present job in the department, what are your chances of achieving the following: make full use of my knowledge, experience and abilities [B12A]	19
Thinking of your present job in the department, what are your chances of achieving the following: plan my own timetable and working schedule [B12B]	19
Thinking of your present job in the department, what are your chances of achieving the following: make a substantial contribution to science in my own research area [B12C]	20
Thinking of your present job in the department, what are your chances of achieving the following: possibility to design the content of my own research [B12D]	20
Thinking of your present job in the department, what are your chances of achieving the following: possibility to develop own ideas and get approval for them [B12E]	21
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Thinking of your present job in the department, what are your chances of achieving the following: possibility to receive high level education [B12G]	22
Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with prominent researchers of my own field [B12H]	22
Thinking of your department as a research organisation: [B13]	23
What kind of changes would you consider useful to the functioning of the department (first mention)? [B14A]	23
What kind of changes would you consider useful to the functioning of the department (second mention)? [B14B]	24
What kind of changes would you consider useful to the functioning of the department (third	

mention)? [B14C]	24
How often have you communicated in the following manner with foreign colleagues during the past year: Correspondence (with how many persons) [C15A]	25
How often have you communicated in the following manner with foreign colleagues during the past year: Telephone (how many calls) [C15B]	25
How often have you communicated in the following manner with foreign colleagues during the past year: Other electronic communication (telex, fax etc) (with how many colleagues) [C15C]	26
How often have you communicated in the following manner with foreign colleagues during the past year: Requests of offprints from abroad (how many times) [C15D]	26
How often have you communicated in the following manner with foreign colleagues during the past year: Scientific visitors from abroad with whom were in active contact (number of persons) [C15E]	27
How often have you communicated in the following manner with foreign colleagues during the past year: Own scientific visits abroad, including attending meetings (number of visits) [C15F]	27
How often have you communicated in the following manner with foreign colleagues during the past year: Preparing/giving joint presentations in meetings (number of presentations) [C15G]	28
How often have you communicated in the following manner with foreign colleagues during the past year: Producing joint publications (number of publications) [C15H]	28
How often have you communicated in the following manner with foreign colleagues during the past year: Other joint scientific/technical products, please specify [C15I]	29
How often have you communicated in the following manner with foreign colleagues during the past year: Joint projects [C15J]	29
How often have you communicated in the following manner with foreign colleagues during the past year: Other joint activities [C15K]	30
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In your case, what are the biggest obstacles to international contacts (second mention)? [C16B]	31
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Have you been prevented from attending any international meeting by being refused/not getting a travel grant? [C17A]	32
If you have been prevented from attending an international meeting by not getting a travel grant, how many times? [C17B]	32
Name three countries which are influential and at the forefront as far as your research area is concerned (first mention) [C18A]	33
Name three countries which are influential and at the forefront as far as your research area is concerned (second mention) [C18B]	33

3. Indexes

Name three countries which are influential and at the forefront as far as your research area is concerned (third mention) [C18C]	34
The most recent paper/report sent by you to be published in a journal, book or other publication, including the university's own series, was: [D20]	34
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Criteria for choosing the publication channel: The series attracts those readers whom I would like to read my article/paper [D22C]	36
Criteria for choosing the publication channel: Articles/papers of my own research area have been published in the series previously [D22D]	36
Criteria for choosing the publication channel: Review of my article/paper will be objective and competent [D22E]	37
Criteria for choosing the publication channel: It is important for my career to publish in this series [D22F]	37
Criteria for choosing the publication channel: There is a strong probability that my work will be published [D22G]	38
Criteria for choosing the publication channel: No significant costs are involved, e.g. in the form of page charge [D22H]	38
Criteria for choosing the publication channel: Publication process probably does not demand noticeable changes in the text [D22I]	39
Criteria for choosing the publication channel: Personal contacts with a member/members of the editorial committee [D22J]	39
Criteria for choosing the publication channel: I'm a member of the editorial committee in this series or other influence [D22K]	40
Criteria for choosing the publication channel: Article/paper requested [D22L]	40
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From the list, choose three factors that are taken into account when assessing research in your field (first factor) [E24A]	42
From the list, choose three factors that are taken into account when assessing research in your field (second factor) [E24B]	42
From the list, choose three factors that are taken into account when assessing research in your field (third factor) [E24C]	43
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Has your research area been submitted to a special review by the Academy of Finland or any other body? [E27A]	45
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Did you find the above mentioned review competent and objective? [E28A]	47
If the answer is 'no', please specify the weaknesses/faults of the review (first mention) [E28B1]	48
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Does this review have an effect on your own research work, resources, research content or other research environment? [E29A]	49
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If you have followed closely any other special review, do you think the review had an effect? [E30A]	51
The effects of the review you followed (first mention) [E30B1]	51
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Do you think special reviews of different research areas or research institutes should be made more or less often? [E31]	52
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (first mention)? [E32A1]	53
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (second mention)? [E32A2]	53
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3. Indexes

How would you place the subject area of your main research project on the scale: New subject areas = 5, traditional subject area = 1 [F33]	56
How would you place your project on the scale: Single-discipline research = 5, interdisciplinary research = 1 [F34]	57
Duration of the project in years [KESTO]	57
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If it is team research, how many members there are in the team? [F36A]	58
Are the other project team members all from your department or also from elsewhere, from where (university and department)? [F36B1]	58
Are the other project team members all from your department or also from elsewhere, from where (university and department)? [F36B2]	59
Are the other project team members all from your department or also from elsewhere, from where (university and department)? [F36B3]	59
Are you involved in other research projects? If 'yes', how many? [F37]	60
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In how many different ways has been in contact with team A? [F40SA]	65
In how many different ways has been in contact with team B? [F40SB]	65
In how many different ways has been in contact with team C? [F40SC]	66
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Exchange of written information (publications, offprints etc) with team B [F40DB3]	71
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Research co-operation with team B [F40DB5]	71
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Correspondence with team C [F40DC1]	72
Occasional visits with team C [F40DC2]	72
Exchange of written information (publications, offprints etc) with team C [F40DC3]	73
Joint publications with team C [F40DC4]	73
Research co-operation with team C [F40DC5]	74
Education co-operation with team C [F40DC6]	74
Correspondence with team D [F40DD1]	74
Occasional visits with team D [F40DD2]	75
Exchange of written information (publications, offprints etc) with team D [F40DD3]	75
Joint publications with team D [F40DD4]	75
Research co-operation with team D [F40DD5]	76
Education co-operation with team D [F40DD6]	76
Correspondence with team E [F40DE1]	76
Occasional visits with team E [F40DE2]	77
Exchange of written information (publications, offprints etc) with team E [F40DE3]	77
Joint publications with team E [F40DE4]	78
Research co-operation with team E [F40DE5]	78
Education co-operation with team E [F40DE6]	78
Correspondence with team F [F40DF1]	79
Occasional visits with team F [F40DF2]	79
Exchange of written information (publications, offprints etc) with team F [F40DF3]	79
Joint publications with team F [F40DF4]	80
Research co-operation with team F [F40DF5]	80
Education co-operation with team F [F40DF6]	80
In addition to those teams with whom you are already in contact, would you like co-operate with yet other teams? [F42]	81
What prevents the co-operation/contacts (first reason)? [F43A]	81
What prevents the co-operation/contacts (second reason)? [F43B]	82

3. Indexes

Which of the following research and development types describes your present research best? [F44]	82
Which of the following research and development types describes your present research best? [F44V40]	83
How would you characterize your research? Is it: [F45]	83
Thinking of the application potential (applicability) of your main research project, would you say that: [F46]	84
How would you define the application level of your main research results in the scientific sense, with the help of examples displayed in the card [F47]	84
How would you describe the present state of your own research area in terms of following characterizations: Largely standardised research methods, procedures and subjects [F48A] .	85
How would you describe the present state of your own research area in terms of following characterizations: The field is theoretically integrated and coordinated [F48B]	85
How would you describe the present state of your own research area in terms of following characterizations: The field embraces a multitude of research objectives, concepts and approaches [F48C]	86
How would you describe the present state of your own research area in terms of following characterizations: The field has been fragmented into many subfields/specialities [F48D] ..	86
How would you describe the present state of your own research area in terms of following characterizations: Rigorous division of work in research tasks and and expertise [F48E] ...	87
How would you describe the present state of your own research area in terms of following characterizations: The field is divided into different schools of thought and research practices [F48F]	87
Researchers of this field have profound scientific disagreements over a great number of issues [F48G]	88
In your opinion, what would be the most important characteristics of high quality research in your area (first mention)? [F49A]	88
In your opinion, what would be the most important characteristics of high quality research in your area (second mention)? [F49B]	89
In your opinion, what would be the most important characteristics of high quality research in your area (third mention)? [F49C]	89
Rate the relative importance of each characteristics in your own research field: Validity (truthfulness, objectivity, accuracy) [F50A]	90
Rate the relative importance of each characteristics in your own research field: Innovativeness (originality, creativity, pioneer spirit) [F50B]	90
Rate the relative importance of each characteristics in your own research field: 'Simplicity' (clarity, presentation method, elegance) [F50C]	91
Rate the relative importance of each characteristics in your own research field: Contribution to the research (scientific progress, advancement of scientific knowledge, theory and methodology) [F50D]	91

Rate the relative importance of each characteristics in your own research field: Contribution beyond the research area (utility to practice, significance to society) [F50E]	92
Rate the relative importance of each characteristics in your own research field: Productivity (a great volume of publication output, quantity) [F50F]	92
Rate the relative importance of each characteristics in your own research field: International visibility (international publications, international reputation, contacts abroad) [F50G]	93
In your opinion, what should be the most important criteria of scientific success in your research area (first mention) [F51A]	93
In your opinion, what should be the most important criteria of scientific success in your research area (second mention) [F51B]	94
In your opinion, what should be the most important criteria of scientific success in your research area (third mention) [F51C]	94
In your opinion, which indicators could be used to measure the successfulness of research (first mention) [F52A]	95
In your opinion, which indicators could be used to measure the successfulness of research (second mention) [F52B]	96
In your opinion, which indicators could be used to measure the successfulness of research (third mention) [F52C]	97
Respondent's age [IKA]	97
Respondent's research experience in years [A5NOCOD]	98
Number of scientific publications [TIETJULK]	98
Volume of scientific output published in Finland 1986 - 1988: Books/monographs (if dissertation, please note) [TUOTK1]	98
Volume of scientific output published in Finland 1986 - 1988: Textbooks [TUOTK2]	99
Volume of scientific output published in Finland 1986 - 1988: Editing jointly authored books [TUOTK3]	99
Volume of scientific output published in Finland 1986 - 1988: Original articles in scientific journals and jointly authored books [TUOTK4]	100
Volume of scientific output published in Finland 1986 - 1988: University, research institute or university department series [TUOTK5]	100
Volume of scientific output published in Finland 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences) [TUOTK6]	100
Volume of scientific output published in Finland 1986 - 1988: Abstracts [TUOTK7]	101
Volume of scientific output published in Finland 1986 - 1988: Patents or patent applications [TUOTK8]	101
Volume of scientific output published in Finland 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material) [TUOTK9]	102
Volume of scientific output published in Finland 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs	

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[TUOTK10]	102
Volume of scientific output published in Finland 1986 - 1988: Scientific journals [TUOTK11]	102
Volume of scientific output published in Finland 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers [TUOTK12]	103
Volume of scientific output published in Finland 1986 - 1988: Other learning material than textbooks [TUOTK13]	103
Volume of scientific output published abroad 1986 - 1988: Books/monographs (if dissertation, please note) [TUOTU1]	104
Volume of scientific output published abroad 1986 - 1988: Textbooks [TUOTU2]	104
Volume of scientific output published abroad 1986 - 1988: Editing jointly authored books [TUOTU3]	105
Volume of scientific output published abroad 1986 - 1988: Original articles in scientific journals and jointly authored books [TUOTU4]	105
Volume of scientific output published abroad 1986 - 1988: University, research institute or university department series [TUOTU5]	105
Volume of scientific output published abroad 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences) [TUOTU6]	106
Volume of scientific output published abroad 1986 - 1988: Abstracts [TUOTU7]	106
Volume of scientific output published abroad 1986 - 1988: Patents or patent applications [TUOTU8]	107
Volume of scientific output published abroad 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material) [TUOTU9]	107
Volume of scientific output published abroad 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs [TUOTU10]	107
Volume of scientific output published abroad 1986 - 1988: Scientific journals [TUOTU11]	108
Volume of scientific output published abroad 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers [TUOTU12]	108

3.2 Variables in alphabetical order

Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (first mention)?	53
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (second mention)?	53
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the advantages (third mention)?	54
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (first mention)?	54
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (second mention)?	55
Are assessments of this kind advantageous or disadvantageous to scientific and research communities? What are the disadvantages (third mention)?	56
Are the other project team members all from your department or also from elsewhere, from where (university and department)?	58, 59, 59
Are you involved in other research projects? If 'yes', how many?	60
Briefly describe these problems and constraints, or give examples of them (1. mention)	17
Briefly describe these problems and constraints, or give examples of them (2. mention)	18
Briefly describe these problems and constraints, or give examples of them (3. mention)	18
Correspondence with team A	68
Correspondence with team B	70
Correspondence with team C	72
Correspondence with team D	74
Correspondence with team E	76
Correspondence with team F	79
Criteria for choosing the publication channel: Article/paper requested	40
Criteria for choosing the publication channel: Articles/papers of my own research area have been published in the series previously	36
Criteria for choosing the publication channel: Conference publication	41
Criteria for choosing the publication channel: Have a habit of publishing in this series	40
Criteria for choosing the publication channel: I'm a member of the editorial committee in this series or other influence	40
Criteria for choosing the publication channel: It is important for my career to publish in this series	37
Criteria for choosing the publication channel: No significant costs are involved, e.g. in the form of page charge	38
Criteria for choosing the publication channel: Other reasons	41

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Criteria for choosing the publication channel: Personal contacts with a member/members of the editorial committee	39
Criteria for choosing the publication channel: Publication process probably does not demand noticeable changes in the text	39
Criteria for choosing the publication channel: Review of my article/paper will be objective and competent	37
Criteria for choosing the publication channel: Speed of publication process in that series ...	35
Criteria for choosing the publication channel: The series attracts those readers whom I would like to read my article/paper	36
Criteria for choosing the publication channel: The series is esteemed and visible	36
Criteria for choosing the publication channel: There is a strong probability that my work will be published	38
Did you find the above mentioned review competent and objective?	47
Do you accept the assessment criteria used to review research in your field?	43
Do you have experience of academic study abroad (min. 3 months)?	10
Do you think special reviews of different research areas or research institutes should be made more or less often?	52
Does this review have an effect on your own research work, resources, research content or other research environment?	49
Duration of the project in years	57
Education co-operation with team A	69
Education co-operation with team B	72
Education co-operation with team C	74
Education co-operation with team D	76
Education co-operation with team E	78
Education co-operation with team F	80
Exchange of written information (publications, offprints etc) with team A	68
Exchange of written information (publications, offprints etc) with team B	71
Exchange of written information (publications, offprints etc) with team C	73
Exchange of written information (publications, offprints etc) with team D	75
Exchange of written information (publications, offprints etc) with team E	77
Exchange of written information (publications, offprints etc) with team F	79
Foreign country/countries in which respondent studied	10
Foreign degree (first)	11
Foreign degree (second)	11
From the list, choose three factors that are taken into account when assessing research in your field (first factor)	42

From the list, choose three factors that are taken into account when assessing research in your field (second factor)	42
From the list, choose three factors that are taken into account when assessing research in your field (third factor)	43
FSD case id	6
FSD edition number	5
FSD study number	5
Has your research area been submitted to a special review by the Academy of Finland or any other body?	45
Have you been prevented from attending any international meeting by being refused/not getting a travel grant?	32
Have you done research work abroad?	12
How many teams from abroad mentioned altogether?	64
How many teams from Finland mentioned altogether?	63
How often have you communicated in the following manner with foreign colleagues during the past year: Correspondence (with how many persons)	25
How often have you communicated in the following manner with foreign colleagues during the past year: Joint projects	29
How often have you communicated in the following manner with foreign colleagues during the past year: Other electronic communication (telex, fax etc) (with how many colleagues)	26
How often have you communicated in the following manner with foreign colleagues during the past year: Other joint activities	30
How often have you communicated in the following manner with foreign colleagues during the past year: Other joint scientific/technical products, please specify	29
How often have you communicated in the following manner with foreign colleagues during the past year: Own scientific visits abroad, including attending meetings (number of visits)	27
How often have you communicated in the following manner with foreign colleagues during the past year: Preparing/giving joint presentations in meetings (number of presentations)	28
How often have you communicated in the following manner with foreign colleagues during the past year: Producing joint publications (number of publications)	28
How often have you communicated in the following manner with foreign colleagues during the past year: Requests of offprints from abroad (how many times)	26
How often have you communicated in the following manner with foreign colleagues during the past year: Scientific visitors from abroad with whom were in active contact (number of persons)	27
How often have you communicated in the following manner with foreign colleagues during the past year: Telephone (how many calls)	25
How would you characterize your research? Is it:	83
How would you define the application level of your main research results in the scientific sense,	

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with the help of examples displayed in the card	84
How would you describe the present state of your own research area in terms of following characterizations: Largely standardised research methods, procedures and subjects	85
How would you describe the present state of your own research area in terms of following characterizations: Rigorous division of work in research tasks and and expertise	87
How would you describe the present state of your own research area in terms of following characterizations: The field embraces a multitude of research objectives, concepts and approaches	86
How would you describe the present state of your own research area in terms of following characterizations: The field has been fragmented into many subfields/specialities	86
How would you describe the present state of your own research area in terms of following characterizations: The field is divided into different schools of thought and research practices	87
How would you describe the present state of your own research area in terms of following characterizations: The field is theoretically integrated and coordinated	85
How would you like to change these assessment criteria (first mention)?	44
How would you like to change these assessment criteria (second mention)?	44
How would you like to change these assessment criteria (third mention)?	45
How would you place the subject area of your main research project on the scale: New subject areas = 5, traditional subject area = 1	56
How would you place your project on the scale: Single-discipline research = 5, interdisciplinary research = 1	57
If it is team research, how many members there are in the team?	58
If the answer is 'no', please specify the weaknesses/faults of the review (first mention)	48
If the answer is 'no', please specify the weaknesses/faults of the review (second mention) ..	48
If the answer is 'no', please specify the weaknesses/faults of the review (third mention)	49
If the answer to the previous question is 'yes', which body was responsible for the review and which research area was assessed?	46
If you have been prevented from attending an international meeting by not getting a travel grant, how many times?	32
If you have followed closely any other special review, do you think the review had an effect? ..	51
In addition to those teams with whom you are already in contact, would you like co-operate with yet other teams?	81
In how many different ways has been in contact with team A?	65
In how many different ways has been in contact with team B?	65
In how many different ways has been in contact with team C?	66
In how many different ways has been in contact with team D?	66
In how many different ways has been in contact with team E?	67

In how many different ways has been in contact with team F?	67
In your case, what are the biggest obstacles to international contacts (first mention)?	30
In your case, what are the biggest obstacles to international contacts (second mention)?	31
In your case, what are the biggest obstacles to international contacts (third mention)?	31
In your opinion, what should be the most important criteria of scientific success in your research area (first mention)	93
In your opinion, what should be the most important criteria of scientific success in your research area (second mention)	94
In your opinion, what should be the most important criteria of scientific success in your research area (third mention)	94
In your opinion, what would be the most important characteristics of high quality research in your area (first mention)?	88
In your opinion, what would be the most important characteristics of high quality research in your area (second mention)?	89
In your opinion, what would be the most important characteristics of high quality research in your area (third mention)?	89
In your opinion, which indicators could be used to measure the successfulness of research (first mention)	95
In your opinion, which indicators could be used to measure the successfulness of research (second mention)	96
In your opinion, which indicators could be used to measure the successfulness of research (third mention)	97
Joint publications with team A	69
Joint publications with team B	71
Joint publications with team C	73
Joint publications with team D	75
Joint publications with team E	78
Joint publications with team F	80
Koodauslomakkeen numero	6
Name three countries which are influential and at the forefront as far as your research area is concerned (first mention)	33
Name three countries which are influential and at the forefront as far as your research area is concerned (second mention)	33
Name three countries which are influential and at the forefront as far as your research area is concerned (third mention)	34
Number of scientific publications	98
Occasional visits with team A	68
Occasional visits with team B	70

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Occasional visits with team C	72
Occasional visits with team D	75
Occasional visits with team E	77
Occasional visits with team F	79
Optimal duration of the project (in years)	57
Rate the relative importance of each characteristics in your own research field: Contribution beyond the research area (utility to practice, significance to society)	92
Rate the relative importance of each characteristics in your own research field: Contribution to the research (scientific progress, advancement of scientific knowledge, theory and methodology)	91
Rate the relative importance of each characteristics in your own research field: Innovativeness (originality, creativity, pioneer spirit)	90
Rate the relative importance of each characteristics in your own research field: International visibility (international publications, international reputation, contacts abroad)	93
Rate the relative importance of each characteristics in your own research field: Productivity (a great volume of publication output, quantity)	92
Rate the relative importance of each characteristics in your own research field: 'Simplicity' (clarity, presentation method, elegance)	91
Rate the relative importance of each characteristics in your own research field: Validity (truthfulness, objectivity, accuracy)	90
Research abroad, in which country (first)?	12
Research abroad, in which country (second)?	12
Research co-operation with team A	69
Research co-operation with team B	71
Research co-operation with team C	74
Research co-operation with team D	76
Research co-operation with team E	78
Research co-operation with team F	80
Researchers of this field have profound scientific disagreements over a great number of issues 88	
Respondent's age	97
Respondent's department and university	6
Respondent's research experience in years	10, 98
Respondent's sex	8
Respondent's year of birth	7
The effects of the review on the research (first mention)	49
The effects of the review on the research (second mention)	50

The effects of the review on the research (third mention)	50
The effects of the review you followed (first mention)	51
The effects of the review you followed (second mention)	52
The location of the most important research teams abroad (team D)	63
The location of the most important research teams abroad (team E)	64
The location of the most important research teams abroad (team F)	64
The location of the most important research teams in Finland (team A)	61
The location of the most important research teams in Finland (team B)	62
The location of the most important research teams in Finland (team C)	62
The most recent paper/report sent by you to be published in a journal, book or other publication, including the university's own series, was:	34
The number of other research teams abroad	61
The number of other research teams in Finland	60
Thinking of the application potential (applicability) of your main research project, would you say that:	84
Thinking of your department as a research organisation:	23
Thinking of your present job in the department, what are your chances of achieving the following: make a substantial contribution to science in my own research area	20
Thinking of your present job in the department, what are your chances of achieving the following: make full use of my knowledge, experience and abilities	19
Thinking of your present job in the department, what are your chances of achieving the following: plan my own timetable and working schedule	19
Thinking of your present job in the department, what are your chances of achieving the following: possibility to design the content of my own research	20
Thinking of your present job in the department, what are your chances of achieving the following: possibility to develop own ideas and get approval for them	21
Thinking of your present job in the department, what are your chances of achieving the following: possibility to receive high level education	22
Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with prominent researchers of my own field	22
Thinking of your present job in the department, what are your chances of achieving the following: possibility to work with researchers from different fields (multidisciplinary work)	21
Volume of scientific output published abroad 1986 - 1988: Abstracts	106
Volume of scientific output published abroad 1986 - 1988: Books/monographs (if dissertation, please note)	104
Volume of scientific output published abroad 1986 - 1988: Editing jointly authored books	105
Volume of scientific output published abroad 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers	108

3. Indexes

Volume of scientific output published abroad 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs	107
Volume of scientific output published abroad 1986 - 1988: Original articles in scientific journals and jointly authored books	105
Volume of scientific output published abroad 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material)	107
Volume of scientific output published abroad 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)	106
Volume of scientific output published abroad 1986 - 1988: Patents or patent applications	107
Volume of scientific output published abroad 1986 - 1988: Scientific journals	108
Volume of scientific output published abroad 1986 - 1988: Textbooks	104
Volume of scientific output published abroad 1986 - 1988: University, research institute or university department series	105
Volume of scientific output published in Finland 1986 - 1988: Abstracts	101
Volume of scientific output published in Finland 1986 - 1988: Books/monographs (if dissertation, please note)	98
Volume of scientific output published in Finland 1986 - 1988: Editing jointly authored books	99
Volume of scientific output published in Finland 1986 - 1988: Jointly authored scientific books and proceedings books published by well-know publishers	103
Volume of scientific output published in Finland 1986 - 1988: Non-scientific publications, newspaper or magazine articles, radio or tv programmes, other learning material than monographs	102
Volume of scientific output published in Finland 1986 - 1988: Original articles in scientific journals and jointly authored books	100
Volume of scientific output published in Finland 1986 - 1988: Other learning material than textbooks	103
Volume of scientific output published in Finland 1986 - 1988: Other scientific or technical products (e.g. algorithms, software, prototypes, experimental material)	102
Volume of scientific output published in Finland 1986 - 1988: Other scientific publications (e.g. literature reviews, bibliographies, proceedings of scientific conferences)	100
Volume of scientific output published in Finland 1986 - 1988: Patents or patent applications	101
Volume of scientific output published in Finland 1986 - 1988: Scientific journals	102
Volume of scientific output published in Finland 1986 - 1988: Textbooks	99
Volume of scientific output published in Finland 1986 - 1988: University, research institute or university department series	100
Was your own research project submitted to this review?	47
What are your chances of creative work and self-fulfilment in your present working environ-	

ment? Would you say that you:	17
What is your highest degree?	8
What is your motivation for embarking on a scientific career (most important personal motive)? 15	
What is your motivation for embarking on a scientific career (second most important personal motive)?	15
What is your motivation for embarking on a scientific career (third most important personal motive)?	16
What kind of changes would you consider useful to the functioning of the department (first mention)?	23
What kind of changes would you consider useful to the functioning of the department (second mention)?	24
What kind of changes would you consider useful to the functioning of the department (third mention)?	24
What prevents the co-operation/contacts (first reason)?	81
What prevents the co-operation/contacts (second reason)?	82
What proportion of your working time (in %) is devoted to management/administration? ...	14
What proportion of your working time (in %) is devoted to other tasks?	14
What proportion of your working time (in %) is devoted to research?	13
What proportion of your working time (in %) is devoted to teaching?	13
Which of the following research and development types describes your present research best? 82, 83	
Who chose the publication medium for this paper/report (publication channel)?	35
Year when respondent completed Doctorate	9
Year when respondent completed Licentiate	9
Year when respondent graduated	9
Year when the review was completed	46
Your present position in the department	7

Appendix A

Questionnaire in Finnish

KYSELYLOMAKE

Tämä kyselylomake on osa Yhteiskuntatieteelliseen tietoaarkistoon arkistoitua tutkimusaineistoa

FSD1089 Korkeakoulujen tutkimustoiminnan dynamiikka ja tuloksellisuus 1990

Kyselylomaketta hyödyntävien tulee viitata siihen asianmukaisesti lähdeviitteellä.

Lisätiedot: <http://www.fsd.uta.fi/>

QUESTIONNAIRE

This questionnaire is part of the following dataset, archived at the Finnish Social Science Data Archive:

FSD1089 Dynamics and Productivity of Research Activity in Universities 1990

If this questionnaire is used or referred to in any publication, the source must be acknowledged by means of an appropriate bibliographic citation.

More information: <http://www.fsd.uta.fi/>

TAMPEREEN YLIOPISTO
SOSIOLOGIAN JA SOSIAALIPSYKOLOGIAN LAITOS

KORKEAKOULUJEN TUTKIMUSTOIMINNAN DYNAMIIKKA JA TULOKSELLISUUS

TUTKIJAHAASTATTELULOMAKE

Laitoksen tunnus-
numero _____

Haastattelunumero _____

Haastattelijan nro _____

A. HENKILÖTIEDOT JA TOIMINTA

1. Tämän hetkinen asemanne laitoksella

10 - professori

9 - apulaisprofessori

8 - yliassistentti

7 - apulaisopettaja

6 - lehtori, yliopettaja

5 - assistentti

4 - päätoiminen tuntiopettaja

3 - Suomen Akatemian vanhempi tutkija

2 - Suomen Akatemian nuorempi tutkija

1 - Suomen Akatemian nuorempi tutkija

0 - Muu tutkimushenkilökunta, mikä

2. Syntymävuosi _____

3. Sukupuoli

1 - mies

2 - nainen _____

4. Mikä on erikoisalanne?

5. Mitkä ovat tutkintojenne suoritusvuodet?

3 - tohtorin tutkinto vuosi _____ ei suor. _____

2 - lisensiaatin tutkinto vuosi _____ ei suor. _____

1 - kandidaatin tutkinto vuosi _____ ei suor. _____

6. Oletteko saanut akateemista koulutusta ulkomailla (väh. 3 kk)
1 - kyllä
2 - ei

JOS KYLLÄ:

A) Missä maassa/maissa?

a) _____

b) _____

B) Minkä tutkinnon suorittitte

3 - tohtorin tai vastaavan maassa a) _____

2 - lisensiaatin tai vastaavan maassa b) _____

1 - maisterin, kandidaatin tai- vastaavan

0 - ei mitään

7. Kuinka monen vuoden tutkimuskokemus teillä on (mukaan luettuna lisensiaatin tai tohtorin tutkintoon johtanut oma tutkimustyö) takaa "0", Jos ei yhtään)
(Kirjoittakaa "0", jos ei yhtään)

Vuosien määrä

8. Oletteko tehnyt tutkimustyötä ulkomailla? Jos olette, kertokaa missä ja kuinka kauan.

0 - Ei tutkimuskokemusta ulkomailla

maa 1: _____

maa 2: _____

9. Arvioikaa kuinka suuren osan työajastanne (%:na) käytätte
- tutkimukseen

- opetukseen

- hallinnollisiin tehtäviin

- muihin tehtäviin

B. AMMATILLINEN IDENTITEETTI

10. Erilaiset motivaatiotekijät voivat olla tärkeitä tieteellisen uran valinnassa. Asettakaa tässä olevista vaihtoehdoista tärkeysjärjestykseen ne kolme tekijää, joita henkilökohtaisesti tällä hetkellä pidätte itsellenne tärkeimpinä

ANNA KORTTI 1

tärkein _____

toiseksi tärkein _____

kolmanneksi tärkein _____

11. Kuinka arvioisitte mahdollisuksianne luovaan työskentelyyn ja itsensä toteuttamiseen nykyisessä työympäristössänne? Sanoisitteko että teillä

3 - ei ole ongelmia

2 - on joitakin rajoituksia

1 - on vaikeuksia tässä suhteessa _____

ELLEI VASTAUS KYSYMYKSEEN 11 OLE "3", KYSY:

12. Voitteko lyhyesti kuvailla näitä vaikeuksia ja rajoituksia tai antaa esimerkkejä niistä.

13. Ajatellen nykyistä asemaanne laitoksella, minkälaisiksi arvioisitte mahdollisuutenne seuraavien tavoitteiden saavuttamiseen:

KORTTI 2

KUSTAKIN KOHDASTA Sanoisitteko että mahdollisuutenne ovat:

4 - erinomaiset

3 - hyvät

2 - jonkin verran rajoitetut

1 - erittäin rajoitetut; tai

0 - tavoite ei ole tärkeä

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

14. Ajatellen laitostanne tutkimusorganisaationa:
 3 - oletteko tyytyväinen siihen
 2 - tekisittekö siihen joitakin muutoksia; vai
 1 - muuttaisittekö sitä merkittävästi?

ELLEI VASTAUS KYSYMYKSEEN 14 OLE " 3 KYSY

15. Minkälaisia muutoksia pitäisitte hyödyllisinä laitoksen toiminnan kannalta

C. TIETEELLINEN KOMMUNIKAATIO

16. On olemassa monia keinoja pitää yhteyttä ulkomaisiin kollegoihin. Arvioikaa kuinka usein olette käyttänyt seuraavia yhteydenpito-
 muotoja ulkomaisten kolleegojen kanssa viimeksi kuluneen vuoden
 aikana?

<u>Yhteydenpitokeino</u>	<u>Lukumäärä</u>
a) kirjeenvaihto kuinka monen kolleegan kanssa?)	_____
b) puhelin (montako ulkomaanpuhelua?)	_____
c) muu elektroninen kommunikaatio (telex, telefax jne.) (kuinka monen kolleegan kanssa?)	_____
d) eripainospyynnöt ulkomailta (montako kertaa)	_____
e) tieteelliset vierailijat ulkomailta, joihin ollut aktiivinen kontakti (henkilöiden määrä)	_____
f) omat tieteelliset vierailut ulkomaille, kokousmatkat mukaan (lukumäärä)	_____
g) yhteisten esitelmien valmistelu / esittäminen kokouksissa (esitelmien määrä)	_____
h) yhteisjulkaisujen tuottaminen (julkaisujen määrä)	_____
i) muut yhteiset tieteelliset/tekniset tuotteet, määritellä tarkemmin	_____
_____	_____
_____	_____
j) muu yhteinen toiminta esim. yhteisprojektit	_____
_____	_____
_____	_____

17. Mitkä ovat omalta osaltanne kansainvälisten kontaktien ylläpitämisessä keskeisimmät esteet?

18. Luetelkaa kolme oman tutkimuksenne kannalta keskeistä maata - alan huippututkimuksen keskusmaat.

maa 1: _____

maa 2: _____

maa 3: _____

D. TUTKIMUSTULOSTEN JULKAISEMINEN

19. Mihin lehteen, kirjaan tai julkaisuun , mukaan lukien korkeakoulujen omat sarjat, lähetitte viimeksi tutkimusraportin tai artikkelin tutkimustuloksistanne julkaistavaksi? Mainitkaa lehden, kirjan tai julkaisun nimi:

20. Oliko kyseinen raportti

1 - yhteisjulkaisu; vai → 21

2 - yksin kirjoittamanne → 22

21. Kuka valitsi julkaisukanavan?

1 - te yksin

2 - te yhdessä muiden kirjoittajien kanssa

3 - muut kirjoittajakumppanit

22. Mitkä tekijät vaikuttivat edellä mainitun lehden, kirjan tai, muun julkaisun valintaan? Seuraavassa on lueteltu tekijöitä, jotka mahdollisesti vaikuttivat siihen, mihin julkaisuun lähetitte viimeksi. artikkelin tai raportin tutkimustuloksistanne Mainitkaa kunkin tekijän kohdalla, kuinka tärkeä se oli julkaisukanavan valinnassa käyttämällä asteikkoa: 0 = ei lainkaan vaikutusta; 1 = vähäinen vaikutus; 2 = merkittävä vaikutus; 3 = erittäin tärkeä vaikutus

KORTTI 3

- | | | | |
|---|-----|----|-----|
| 1 | ___ | 7 | ___ |
| 2 | ___ | 8 | ___ |
| 3 | ___ | 9 | ___ |
| 4 | ___ | 10 | ___ |
| 5 | ___ | 11 | ___ |
| 6 | ___ | 12 | ___ |

23. Luetelkaa viisi oman erityisalanne tärkeintä julkaisukanavaa tärkeysjärjestyksessä:

- _____
- _____
- _____
- _____
- _____

E. TUTKIMUSTYÖN EVALUAATIO

24. Nimetkää seuraavasta listasta kolme tärkeintä tekijää, jotka nykyisin otetaan huomioon alanne tutkimustoiminnan arvioinnissa:

- | | | |
|----------|---------------------|-----|
| KORTTI 4 | tärkein | ___ |
| | toiseksi tärkein | ___ |
| | kolmanneksi tärkein | ___ |

25. Pidättekö tyydyttävänä ja asianmukaisina niitä tieteellisiä kriteereitä, joilla alanne tutkimustoimintaa arvioidaan?
2 - kyllä
1 - ei

26. Mitä muutoksia haluaisitte?

27. Onko tutkimusalanne ollut Suomen Akatemian tai muun tahon teettämä erillisarvioinnin kohteena?

- 1 - kyllä
- 2 - ei →30

Jos vastaus edelliseen on kyllä, minkä tahon teettämä ja mikä arviointi oli kyseessä?

Milloin arviointi valmistui?

Oliko oma tutkimusprojektinne tämän arvioinnin kohteena

- 1 - kyllä
- 2 - ei

JOS VASTAUS KYSYMYKSEEN 27 ON KYLLÄ, KYSY

28. Oliko edellä mainittu arviointi mielestänne asiallinen ja pätevä?

- 1 - kyllä
- 2 - ei

Mikäli vastaus on ei, täsmentäkää ko. arvioinnin puutteita:

29. Edelliseen kysymykseen vastanneille: onko arvioinnilla ollut mielestänne vaikutuksia omaan tutkimustyöhönne, tutkimusresursseihin, tutkimussisältöön tai muuhun tutkimusympäristöönne?

- 1 - kyllä
- 2 - ei

Jos kyllä, niin minkälaisia?

30. Mikäli olette seurannut läheltä jotakin erillisarviointia, onko ko. arvioinnilla ollut mielestänne vaikutuksia? 8
1 - kyllä
2 - ei

Jos kyllä, niin minkälaisia? _____

31. Pitäisikö mielestänne tehdä enemmän vai vähemmän tutkimusalojen tai laitosten erillisarviointeja ?
1 - enemmän
2 - suunnilleen saman verran kuin nykyisin
3 - vähemmän
4 - ei lainkaan

32. Ovatko edellä mainitun kaltaiset arvioinnit hyödyllisiä tai haitallisia tiede- ja tutkimusyhteisöille?

Mitä hyötyä niistä on? _____

Mitä haittaa? _____

F. TUTKIMUSTOIMINTA

33. Kuvailkaa lyhyesti pääasiallisen tutkimusprojektinne ongelma.

34. Miten pääasiallisen tutkimusprojektinne ongelma-alue sijoittuu asteikolle:

Uusi- ongelma-alue 5_4_3_2_1 Perinteinen ongelma-alue

35. Entä miten projektinne sijoittuu seuraavalle asteikolle:

Tieteenalan sisäinen Tieteidenvälinen
ongelma-alue 5_4_3_2_1 ongelma-alue

36. Mikä on pääasiallisen projektinne kestoaika?

a) Projektinne kokonaiskestoaika määriteltynä tutkimussuunnitelmassa:

aloitus _____ (vuosi); lopetus _____ (vuosi) _____

b) Kuinka pitkäksi aikaa rahoitus on turvattu?

vuoteen _____ asti

c) Mikä olisi projektinne optimaalinen kesto tämän hetken näkökulmasta tarkasteltuna?

vuoteen _____ asti

37. Teettekö projektin

1 - yksin; vai

2 - tutkimusryhmässä?

Jos teette ryhmässä:

a) Montako jäsentä ryhmään kuuluu?

b) Ovatko ryhmän tutkijat vain tältä laitokselta vai myös muualta mistä(laitos ja korkeakoulu)?

38. Oletteko mukana myös muissa tutkimusprojekteissa?

Jos kyllä, kuinka monessa? _____

39. Mikä seuraavista tutkimus- ja kehitystoiminnan tyypeistä parhaiten kuvaa tämän hetkistä tutkimustoimintaanne?

KORTTI 4 B

1. tutkimus, joka on suunnattu uuden tiedon hankkimiseen luonnon, yhteiskunnan ja ihmismielen ilmiöiden perusteista, ominaisuuksista ja lainalaisuuksista.
2. tutkimus, joka käyttää olemassa olevaa tietoa uusien teknologioiden, materiaalien ja välineiden luomiseksi tai jo olemassa olevien parantamiseksi
3. kokeellinen kehitystyö, joka on suunnattu uusien materiaalien tuotteiden ja keksintöjen tuottamiseen, uusien prosessien, ja palveluiden installoimiseen
4. muu, määriteltäkö tarkemmin

JOS USEAMPI KUIN YKSI TYYPPI MAINITAAN KYSYMYKSESSÄ 39, KYSY:

40. Mitä näistä pidätte tärkeimpänä? _____

41. Miten vielä luonnehtisitte tekemäänne tutkimusta yleensä? Onko se:

1. pääasiassa teoreettista
2. pääasiassa kokeellista (empiiristä)
3. pääasiassa metodologista
4. yhdistelmä näistä, mikä? _____

42. Miten kuvaisitte oman tutkimusalanne nykytilannetta seuraavien luonnehdintojen perusteella käyttämällä asteikkoa:

Vastaa nykytilannetta erittäin hyvin 5__4__3__2__1 ei ollenkaan

KORTTI 5

- | | |
|---------|---------|
| 1 _____ | 5 _____ |
| 2 _____ | 6 _____ |
| 3 _____ | 7 _____ |
| 4 _____ | |

43. Ajatellen pääasiallisen tutkimusprojektinne tulosten soveltamis- mahdollisuuksia:

KORTTI 5 B

Sanoisitteko että

- 5 - tutkimustuloksia sovelletaan laajalti käytäntöön
- 4 - joitakin tutkimustuloksia on sovellettu käytäntöön
- 3 - tällä hetkellä tutkimustuloksia ei vielä ole sovellettu käytäntöön, mutta niin tehdään myöhemmin
- 2 - tulosten soveltamiseen liittyviä ongelmia ei vielä ole ratkaistu
- 1 - työn käytännölliset sovellutukset eivät vielä ole selvillä
- 0 - tuloksilla ei ole käytännön sovellutuksia _____

44. Mihin sijoittaisitte pääasiallisten tutkimustulostenne sovellutustason tieteellisessä mielessä kortilla esitettyjen esimerkkien avulla?

KORTTI 6

45. Kuinka monta muuta ryhmää (tai tutkijaa) työskentelee pääprojektinne ongelma - alueen tai läheisesti siihen liittyvän ongelman parissa

a) Suomessa? _____

b) ulkomailla _____

JOS VASTAUS KYSYMYKSEEN 45 ON "0"(EI YHTÄÄN) SIIRTYKÄÄ KYSYMYKSEEN

46. Missä nämä ryhmät työskentelevät a) Suomessa ja b) ulkomailla
 JOS ENEMMÄN KUIN KOLME RYHMÄÄ ON MAINITTU KOHDISSA
 a) JA b) KYSY KOLME TÄRKEINTÄ RYHMÄÄ KOHDISSA a) JA b)

Suomessa

A _____

B _____

C _____

Ulkomailla

D _____

E _____

F _____

47. Onko teillä kontakteja edellä mainittujen ryhmien kanssa?
 KUSTAKIN MAINITUSTA RYHMÄSTÄ KYSY:
 Kuinka luonnehtisitte tätä kontaktia?

KORTTI 6 B

Onko se:

- 6 koulutusyhteistyötä
 5 tutkimusyhteistyötä
 4 yhteisjulkaisuja
 3 kirjallisen informaation vaihtoa (julkaisut eripainokset, jne.)
 2 ajoittaisia vierailuja
 1 kirjeenvaihtoa
 0 ei kontakteja

Kontaktityyppi

Ryhmä A: _____ Ryhmä D: _____

Ryhmä B: _____ Ryhmä E: _____

Ryhmä C: _____ Ryhmä F: _____

48. Niiden ryhmien lisäksi, joihin teillä on jo kontakteja,
 haluaisitteko olla yhteistyössä (yhteydessä) vielä joidenkin muiden
 ryhmien kanssa?
 1 - kyllä
 2 - ei

JOS VASTAUS ON " KYLLÄ"

49. Mitkä syyt estävät yhteistyön/yhteydenpidon

KUSTAKIN KYSYMYKSESSÄ 46 MAINITUSTA RYHMÄSTÄ KYSY:

50. Ajatellen mainitsemanne samanlaisten ongelmien parissa työskenteleviä ryhmiä arvioisitte omaa työtänne suhteessa ryhmien A; B; C; jne.työhön?

KORTTI 6 C

Sanoisitteko että:

- 4 - oma tutkimus on edistyneempää joka suhteessa
- 3 - oma tutkimus on edistyneempää joissakin suhteissa, mutta jäljessä joissakin toisissa
- 2 - oma tutkimus on jokseenkin samalla tasolla
- 1 - oma tutkimus on vähemmän edistynyttä

Ryhmä A: ____

Ryhmä D: ____

Ryhmä B: ____

Ryhmä E: ____

Ryhmä C: ____

Ryhmä F: ____

51. Ajatellessanne hyvää tutkimusta omalla alallanne mitkä olisivat sen tärkeimmät ominaisuudet? Miten luonnehtisitte käsitettä ”hyvä tutkimus”?

52. Tässä on luettelo niistä ominaisuuksista, joita yleisesti pidetään tärkeinä hyvälle tutkimukselle. Arvioi jokaisen ominaisuuden suhteellinen tärkeys omalla tutkimusalallanne käyttämällä asteikkoa 4 = tärkeä; 3 = melko tärkeä; 2 = vähemmän tärkeä; 1 = ei lainkaan tärkeä tai ei relevantti

KORTTI 7

0	___	4	___
1	___	5	___
2	___	6	___
3	___		

53. Minkä teidän mielestänne tulisi olla tieteellisen tuloksellisuuden tärkein kriteeri tutkimusalallanne?

54. Onko teillä ehdotuksia sen suhteen millä, indikaattoreilla tuloksellisuutta voitaisiin käytännössä mitata?

Haastattelunumero _____

Haastattelijan nro _____

TIETEELLISET /TEKNOLOGISET TUOTTEET

55. Pyydämme teitä vielä ilmoittamaan tieteellisten tuotostenne määrän kolmen viime vuoden ajalta täyttämällä seuraava taulukko:

	Suomessa julkaistut (kpl)			Ulkomailla julkaistut (kpl)		
	1986	1987	1988	1986	1987	1988
1. Kirjat (jos kysymyksessä on väitös- kirja mainitaan erikseen	—	—	—	—	—	—
2. Oppikirjat	—	—	—	—	—	—
3. Kokoomateosten toimittaminen	—	—	—	—	—	—
4. Tieteelliset alkuperäisjulkaisut tieteellisissä aikakauslehdissä ja kokoomateoksissa	—	—	—	—	—	—
5. Korkeakoulujen ,tutkimuslaitosten ja korkeakoulujen laitosten sarjat	—	—	—	—	—	—
6. Muut tieteelliset julkaisut (esim. kirjallisuuskatsaukset ja bibliografiat	—	—	—	—	—	—
7. Abstraktit	—	—	—	—	—	—
8. Patentit tai patenttihakemukset	—	—	—	—	—	—
9. Muut tieteelliset/tekniset tuotteet (esim. algoritmit ,tietokoneohjelmat, prototyypit, koemateriaalit, ym.)	—	—	—	—	—	—
10. Yleistajuiset julkaisut, lehtiartik- kelit, radio- ja TV-ohjelmat	—	—	—	—	—	—

56. Lopuksi pyydämme teiltä vielä luettelon tieteellisistä julkaisuistanne alkaen vuodesta 1980.

Kiitos!

1. tunnustus (auktoriteetti tiedeyhteisössä)
2. vastuu/vastuullisuus
3. itsensä toteuttaminen työssä (mahdollisuus kykyjensä toteuttamiseen)
4. urakehitysmahdollisuudet
5. auktoriteetti, valta, vaikutus päätöksentekoon
6. palkka
7. maine, kunnia, yhteiskunnallinen asema
8. turvattu työpaikka
9. työn itsenäisyys
10. huomattavien tiedemiesten esimerkin seuraaminen
11. yhteiskunnan palveleminen, inhimillinen edistys
11. muu, määriteltävä tarkemmin:

1. Mahdollisuus täysin käyttää tietojani, kokemustani ja kykyjäni
2. Mahdollisuus suunnitella oma työaikataulu
3. Mahdollisuus antaa merkittävä panos tieteeseen omalla tutkimusalallani
4. Mahdollisuus suunnitella oman tutkimukseni sisältö
5. Mahdollisuus kehittää omia ideoita ja saada ne hyväksytyksi
6. Mahdollisuus työskennellä eri tieteenaloja edustavien tutkijoiden kanssa
7. Mahdollisuus saada korkean tason koulutusta tutkijoiden
8. Mahdollisuus työskennellä alani huomattavien(tiedemiesten) kanssa

1. Julkaisemisprosessin nopeus ko. sarjassa.
2. Sarjan arvostus ja näkyvyys.
3. Sarja kattaa suuren osan siitä lukijakunnasta, jonka haluaisin lukevan artikkelini (raporttini).
4. Sarjassa on aikaisemmin julkaistu paljon oman tutkimukseni aihepiiriin kuuluvia töitä.
5. Lähettämäni artikkelin (raportin) arviointi on ko. julkaisusarjassa puolueetonta ja pätevää.
6. Julkaiseminen ko. sarjassa olisi tutkijanuralleni tärkeää.
7. Suuri todennäköisyys, että työni julkaistaan.
8. Julkaiseminen ei tule tuottamaan merkittäviä kustannuksia, esim. ns. page-chargen muodossa.
9. Julkaisemisprosessi ei tule todennäköisesti edellyttämään merkittäviä muutoksia tekstissä.
10. Henkilökohtaiset kontaktit toimitusneuvoston jäsenen tai jäsenten kanssa
11. Oma jäsenyys ko. julkaisusarjan toimitusneuvostossa tai muu vaikutusvalta
12. Muu, mikä? _____

0. Laadulliset standardit, jotka ryhmä on saavuttanut tutkimustyössään (esimerkiksi muotoilu, tuotteiden laatu, tulosten validiteetti, tulosten esittämistapa).
1. Tutkimuksen hyödyllisyys ratkaistaessa yhteiskunnan tämän hetken käytännöllisiä ongelmia.
2. Onnistuminen ryhmän käytännöllisten tulosten siirtämisessä tuottavalle palvelusektorille (esim. uudet tuotteet, metodit, prosessit, pehmeä ja kova teknologia).
3. Tuottavuus julkaisujen ,tuotteiden, jne. määrän muodossa ilmaistuna.
4. Koulutustehokkuus ilmaistuna tutkijoiden jatkotutkintojen tuottamisen ja asiantuntijoiden kouluttamisen muodossa.
4. Innovatiivisuus, uusien käyttökelpoisten ideoiden, lähestymistapojen, metodien, sovellutusten keksimisen muodossa.
6. Määrätyn aikataulun noudattaminen.
7. Myönnetyn budjetin rajoissa pysyminen.
8. Mahdolliset negatiiviset tai haitalliset sivuvaikutukset tai odottamattomat seuraukset, jotka aiheutuvat tutkimustuloksista ja/tai niiden soveltamisesta.

Tieteen rakenteelliset yksiköt	Esimerkki I	Esimerkki II.
6. Perustiede/tieteenhaara	Kemia	Biologia
5. Tieteenalaryhmä	Orgaaninen kemia	Eläintiede
4. Tieteenala	Hiilidioksidin kemia	Selkärangattomi eläintiede
3. Tutkimusalue	Aromaattisen hiilidioksidin kemia	Rapujen eläintiede
2. Ongelma-alue	Naftaliinin kemia	Siimajalkaisten eläintiede
1. Spesifi ongelma	Naftaliini-happojen kemia	Siimajalkaisten ravitseminen

0. totuudenmukaisuus (totuus, objektiivisuus, tarkkuus)
1. uutuus (alkuperäisyys, luovuus, pioneerihenki)
2. "yksinkertaisuus" (selkeys, esittämistapa, eleganssi)
3. tieteen sisäinen hyödyllisyys _____ tieteellinen edistys; tieteellisen tiedon, teorian ja metodien kehittäminen)
4. tieteen ulkoinen hyödyllisyys _____ (käytännöllinen hyödyllisyys, yhteiskunnallinen merkitys)
5. laajuus (esim. monipuoliset/laajat tutkimusongelmat, suuret tutkimuspanostukset)
6. syvällisyys (esim. syvälle menevät analyysit, perusteellisuus)
7. tuottavuus (tutkimustulosten runsas tuottaminen; kvantiteetti)
8. kansainvälinen näkyvyys (kansainvälinen julkaisutoiminta; kansainvälinen maine; kontaktit ulkomaille)