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Determinants and Effects of Cooperation in Homogeneous and Heterogeneous Research Clusters (DEKiF)

Questionnaire of the Web Survey

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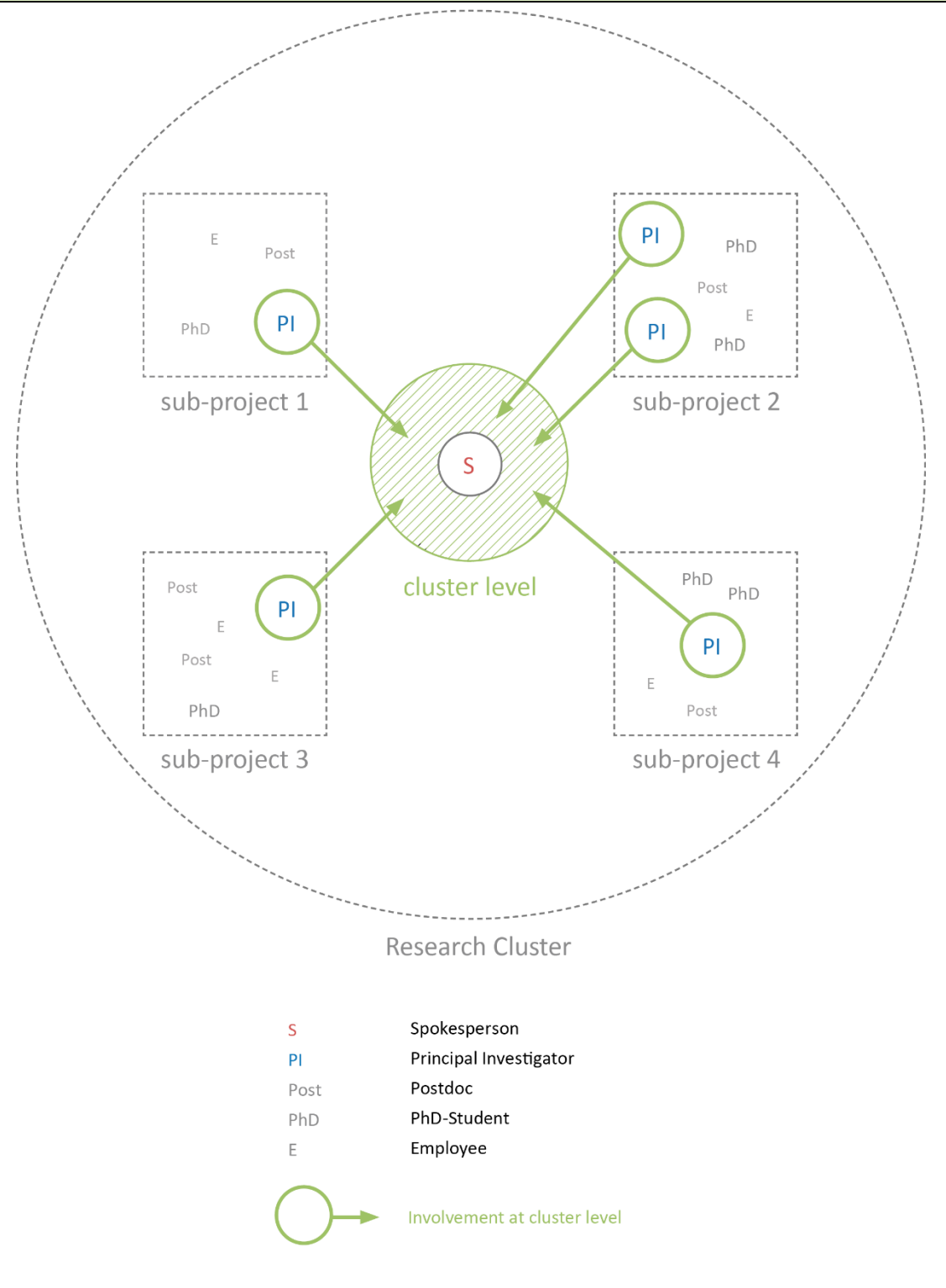
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1 Introduction

preloads		
laufend_beendet	Ongoing collaboration	[1]
	Terminated collaboration	[0]
rolle	Principal Investigator	[1]
	Spokesperson	[0]

pid	ID of the Respondents
[Source: Own formulation]	

The reference point of the following survey is the cluster level of the research cluster. When answering the following questions, please think exclusively of the collaboration at the level of the cluster (green area), not of the collaboration within the sub-projects (grey area) of the above-mentioned research cluster.



[Source: Based on: Defila et al. (2006)]

2 Initiation

top_down	Was the research cluster initiated top-down (by third parties, e.g. by the management of a university or research institution) or bottom-up (on the initiative of the PIs involved)?	
	(1) Top-down	[1]
	2	[2]
	3	[3]
	4	[4]
	(5) Bottom-up	[5]
	Neither	[-99]
	Prefer not to indicate	[-999]
[Source: Own formulation]		

Please estimate: What influence did the following characteristics have in the selection of the PIs (sub-project leader/applicant) of the research cluster?							
		(1) Not at all influential	2	3	4	(5) Extremely influential	Prefer not to indicate
Krit_wahl1	Discipline-specific competence	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl2	Strategic competence	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl3	Reputation (e.g. through publication activity, acquired third-party funding)	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl4	Access to scientific infrastructure (e.g. large-scale facilities, data and information infrastructures, laboratories)	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl5	Personality	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl6	Previous personal or professional acquaintance with the initiators of the cluster	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl7	Special research activities or research projects	[1]	[2]	[3]	[4]	[5]	[-999]
Krit_wahl8	Networks within the inter(national) scientific community	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Based on: Defila et al. (2006)]							

3 Composition

[if laufend_beendet ==1] Which of the following scientific disciplines are involved in the research cluster with at least one member?
 [if laufend_beendet ==0] Which of the following scientific disciplines were involved in the research cluster with at least one member?

		Yes	No
wb1	Humanities and Social Sciences	[1]	[0]
wb2	Life Sciences	[1]	[0]
wb3	Natural Sciences	[1]	[0]
wb4	Engineering Sciences	[1]	[0]
wb5	Prefer not to indicate	[1]	[0]

[Source: Own formulation]

[if laufend_beendet == 1 & wb_dfg1 == 1] Which of the following subject areas of the Humanities and Social Sciences are involved in the research cluster with at least one member? Please assess the influence these review boards have in achieving the common research objectives at the cluster level.
 [if laufend_beendet == 0 & wb_dfg1 == 1] Which of the following subject areas of the Humanities and Social Sciences were involved in the research cluster with at least one member? Please assess the influence these review boards had in achieving the common research objectives at the cluster level.

		(1) Not at all influential	2	3	4	(5) Extremely influential	Not involved
fg_geist	Humanities	[1]	[2]	[3]	[4]	[5]	[-999]
fg_sowi	Social and Behavioural Sciences	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Own formulation]

[if laufend_beendet == 1 & wb_dfg2 == 1] Which of the following subject areas of the Life Sciences are involved in the research cluster with at least one member? Please assess the influence these review boards have in achieving the common research objectives at the cluster level.

[if laufend_beendet == 0 & wb_dfg2 == 1] Which of the following subject areas of the Life Sciences were involved in the research cluster with at least one member? Please assess the influence these review boards had in achieving the common research objectives at the cluster level.

							(5) Extremely influential	Not involved
		(1) Not at all influential	2	3	4			
fg_bio	Biology	[1]	[2]	[3]	[4]	[5]	[-999]	
fg_medizin	Medicine	[1]	[2]	[3]	[4]	[5]	[-999]	
fg_agrar	Agriculture, Forestry and Veterinary Medicine	[1]	[2]	[3]	[4]	[5]	[-999]	

[Source: Own formulation]

[if laufend_beendet == 1 & wb_dfg3 == 1] Which of the following subject areas of the Natural Sciences are involved in the research cluster with at least one member? Please assess the influence these review boards have in achieving the common research objectives at the cluster level.

[if laufend_beendet == 0 & wb_dfg3 == 1] Which of the following subject areas of the Natural Sciences were involved in the research cluster with at least one member? Please assess the influence these review boards had in achieving the common research objectives at the cluster level.

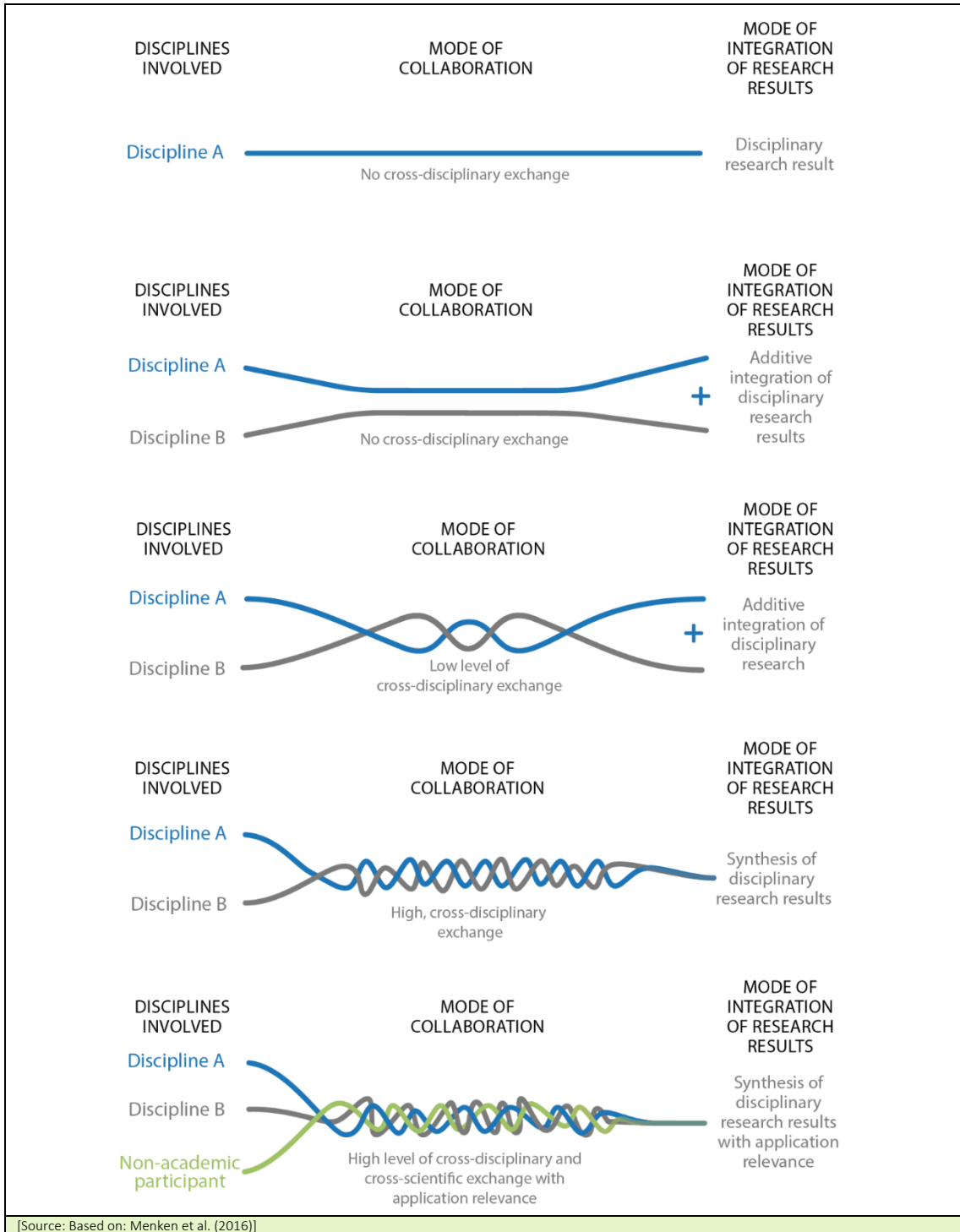
							(5) Extre mely influe ntial	Not involved
		(1) Not at all influential	2	3	4			
fg_chemie	Chemistry	[1]	[2]	[3]	[4]	[5]	[-999]	
fg_physik	Physics	[1]	[2]	[3]	[4]	[5]	[-999]	
fg_mathematik	Mathematics	[1]	[2]	[3]	[4]	[5]	[-999]	
fg_geowi	Geosciences	[1]	[2]	[3]	[4]	[5]	[-999]	

[Source: Own formulation]

<p>[if laufend_beendet == 1 & wb_dfg3 == 1] Which of the following subject areas of the Engineering Sciences are involved in the research cluster with at least one member? Please assess the influence these review boards have in achieving the common research objectives at the cluster level.</p> <p>[if laufend_beendet == 0 & wb_dfg3 == 1] Which of the following subject areas of the Engineering Sciences were involved in the research cluster with at least one member? Please assess the influence these review boards had in achieving the common research objectives at the cluster level.</p>							
		(1) Not at all influential	2	3	4	(5) Extremely influential	Not involved
fg_maschpro	Mechanical and Industrial Engineering	[1]	[2]	[3]	[4]	[5]	[-999]
fg_waerme	Thermal Engineering/ Process Engineering	[1]	[2]	[3]	[4]	[5]	[-999]
fg_matwerk	Materials Science and Engineering	[1]	[2]	[3]	[4]	[5]	[-999]
fg_infsyselek	Computer Science, Systems and Electrical Engineering	[1]	[2]	[3]	[4]	[5]	[-999]
fg_bau	Construction Engineering and Architecture	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Own formulation]							

4 Mode

modus1	Please take a moment to look at the overview below, which illustrates our understanding of disciplinary, multi-, cross-, inter- and trans-disciplinary collaboration. In our understanding Disciplines are equal to the previously rated review boards of the DFG classification system. Please make an assessment: Which form of collaboration described above was most likely to be envisaged for the research cluster before the start of the funding period?	
	Disciplinary collaboration	[1]
	Multi-disciplinary collaboration	[2]
	Cross-disciplinary collaboration	[3]
	Inter-disciplinary collaboration	[4]
	Trans-disciplinary collaboration	[5]
	Prefer not to indicate	[-999]
[Source: Own formulation]		

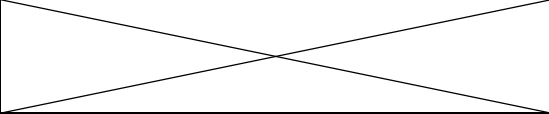


modus2	[if laufend_beendet == 1] The form or intensity of collaboration may change or develop differently than planned during a research collaboration. Which of the forms of collaboration listed below most suitable characterises the research cluster from the beginning to this day?	
	[if laufend_beendet == 0] The form or intensity of collaboration may change or develop differently than planned during a research collaboration. Which of the forms of collaboration listed below most suitable characterised the research cluster from the beginning until the end of the funding period?	
	Disciplinary collaboration	[1]
	Multi-disciplinary collaboration	[2]
	Cross-disciplinary collaboration	[3]
	Inter-disciplinary collaboration	[4]
	Trans-disciplinary collaboration	[5]
Prefer not to indicate	[-999]	
[Source: Own formulation]		

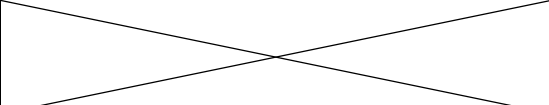
5 Cooperation within the Cluster

To what extent do the following statements apply to the collaboration at cluster level?							
		(1)	2	3	4	(5)	Prefer not to indicate
		Not at all				Fully	
disp_sicht1	[if laufend_beendet == 1] The cluster members are willing to see different points of view. [if laufend_beendet == 0] The cluster members were willing to see different points of view.	[1]	[2]	[3]	[4]	[5]	[-999]
disp_sicht2	[if laufend_beendet == 1] The cluster members can make their own viewpoint understandable to the other cluster members. [if laufend_beendet == 0] The cluster members made their own viewpoint understandable to the other cluster members.	[1]	[2]	[3]	[4]	[5]	[-999]
disp_sicht3	[if dispueber2 == 2 3 4 5 & laufend_beendet == 1] The cluster members strive to understand the mindset and methodological approaches of the other disciplines. [if dispueber2 == 2 3 4 5 & laufend_beendet == 0] The cluster members strived to understand the mindset and methodological approaches of the other disciplines.	[1]	[2]	[3]	[4]	[5]	[-999]
disp_sicht4	[if dispueber2 == 2 3 4 5 & laufend_beendet == 1] The discipline-specific mindset of the individual cluster members complicate collaboration at cluster level. [if dispueber2 == 2 3 4 5 & laufend_beendet == 0] The discipline-specific mindset of the individual cluster members complicated collaboration at cluster level.	[1]	[2]	[3]	[4]	[5]	[-999]
disp_sicht5	[if dispueber2 == 2 3 4 5 & laufend_beendet == 1] The methods of the other disciplines remain unclear.	[1]	[2]	[3]	[4]	[5]	[-999]

	[if dispueber2 == 2 3 4 5 & if laufend_beendet == 0] The methods of the other disciplines remained unclear.		
[Source: Based on: Steinheider, Bayerl, Menold & Bromme (2009)]			

What influence did the following points have on the development of common research questions and objectives at the cluster level?							
		(1) Not at all influential	2	3	4	(5) Extremely influential	Prefer not to indicate
fragziel1	[if dispueber2 == 2 3 4 5] Equal consideration of all disciplines represented	[1]	[2]	[3]	[4]	[5]	[-999]
fragziel2	[if dispueber2 == 2 3 4 5] Alignment with a leading discipline	[1]	[2]	[3]	[4]	[5]	[-999]
fragziel3	[if dispueber2 == 2 3 4 5] Responsibility for identification of research questions and objectives is distributed among the represented disciplines and sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
fragziel4	Alignment of the research questions and objectives of the sub-projects with those of the cluster	[1]	[2]	[3]	[4]	[5]	[-999]
fragziel5	Alignment of the research questions and objectives of the cluster with those of the sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Based on: Defila et al. (2006)]							

integ0	[if laufend_beendet == 1] To what extent is it planned to integrate the research results of the sub-projects at the cluster level?					
	[if laufend_beendet == 0] To what extent were the research results of the sub-projects integrated at the cluster level?					
	(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Own formulation]						

[if laufend_beendet == 1 & if integr1 > 1] What influence do the following requirements and procedures have on the integration of sub-projects' research results at the cluster level?							
[if laufend_beendet == 0 & if integr1 > 1] What influence did the following requirements and procedures have on the integration of sub-projects' research results at the cluster level?							
		(1) Not at all influential	2	3	4	(5) Extremely influential	Prefer not to indicate

integ1	Conceptual coherence of the sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
integ2	Methodological coherence of the sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
integ3	Development of a shared theoretical framework	[1]	[2]	[3]	[4]	[5]	[-999]
integ4	Development of a shared terminology	[1]	[2]	[3]	[4]	[5]	[-999]
integ5	Orientation towards shared scientific products (e.g. publications, patents)	[1]	[2]	[3]	[4]	[5]	[-999]
integ6	Continuous exchange between sub-projects (e.g. regarding intermediate results)	[1]	[2]	[3]	[4]	[5]	[-999]
integ7	Specific financial resources for integration services	[1]	[2]	[3]	[4]	[5]	[-999]
integ8	Joint integration of the research results from the sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
integ9	Delegation of integration to an individual person/sub-group of the group	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Based on: Defila et al. (2006)]							

[if laufend_beendet == 1 & rolle == 0] In your personal opinion, to what extent do the following characteristics and abilities apply to the Spokesperson of the research cluster?							
[if laufend_beendet == 1 & rolle == 1] To what extent do the following characteristics and abilities apply to yourself in your role as the Spokesperson of the research cluster?							
[if laufend_beendet == 0 & rolle == 0] In your personal opinion, to what extent did the following characteristics and abilities apply to the Spokesperson of the research cluster?							
[if laufend_beendet == 0 & rolle == 1] To what extent did the following characteristics and abilities apply to yourself in your role as the Spokesperson of the research cluster?							
		(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
leit1	High strategic competence	[1]	[2]	[3]	[4]	[5]	[-999]
leit2	High discipline-related competence	[1]	[2]	[3]	[4]	[5]	[-999]
leit3	Good moderation skills	[1]	[2]	[3]	[4]	[5]	[-999]
leit4	Motivation of the cluster members to collaborate across sub-projects	[1]	[2]	[3]	[4]	[5]	[-999]
leit5	Comprehensive and transparent communication	[1]	[2]	[3]	[4]	[5]	[-999]
leit6	Supporting conflict resolution at the cluster level	[1]	[2]	[3]	[4]	[5]	[-999]
leit7	No self-promotion at the expense of the cluster	[1]	[2]	[3]	[4]	[5]	[-999]
leit8	Open to criticism, suggestions, and proposals	[1]	[2]	[3]	[4]	[5]	[-999]
leit9	Ensuring an open and inclusive environment for communication at the cluster level	[1]	[2]	[3]	[4]	[5]	[-999]
leit10	Good representation of the cluster	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Defila et al. (2006)]							

[if laufend_beendet == 1] What influence do the following decision-making procedures have on the resource allocation within the research cluster? [if laufend_beendet == 0] What influence did the following decision-making procedures have for the resource allocation within the research cluster?		(1) Not at all influential	2	3	4	(5) Extremely influential	Prefer not to indicate
ent_ress1	[if laufend_beendet == 1] Spokesperson decides [if laufend_beendet == 0] Spokesperson decided	[1]	[2]	[3]	[4]	[5]	[-999]
ent_ress2	[if laufend_beendet == 1] A sub-group (e.g. a sub-project/committee) decides [if laufend_beendet == 0] A sub-group (e.g. a sub-project/committee) decided	[1]	[2]	[3]	[4]	[5]	[-999]
ent_ress3	[if laufend_beendet == 1] A person asserts their point of view [if laufend_beendet == 0] A person asserted their point of view	[1]	[2]	[3]	[4]	[5]	[-999]
ent_ress4	Decision by majority	[1]	[2]	[3]	[4]	[5]	[-999]
ent_ress5	Unanimous decision	[1]	[2]	[3]	[4]	[5]	[-999]
ent_ress6	[if laufend_beendet == 1] Unanimous decision, but in case of disagreement the Spokesperson decides [if laufend_beendet == 0] Unanimous decision, but in case of disagreement the Spokesperson decided	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Based on: Defila et al. (2006)]

ent_ress_knflkt	[if laufend_beendet == 1] How often do frictions occur when making decisions about resource allocation at the cluster level? [if laufend_beendet == 0] How often did frictions occur when making decisions about resource allocation at the cluster level?					
	(1) Never	(2) Rarely	(3) Sometimes	(4) Often	(5) Very often	Prefer not to indicate
	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Own formulation]

[if laufend_beendet == 1] What influence do the following decision-making procedures have when it comes to content-related decisions at the cluster level? [if laufend_beendet == 0] What influence did the following decision-making procedures have when it came to content-related decisions at the cluster level?		(1) Not at all influential	2	3	4	(5) Extremely influential	Prefer not to indicate
ent_inh1	[if laufend_beendet == 1] Spokesperson decides [if laufend_beendet == 0] Spokesperson decided	[1]	[2]	[3]	[4]	[5]	[-999]
ent_inh2	[if laufend_beendet == 1] A sub-group (e.g. a sub-project/committee) decides [if laufend_beendet == 0] A sub-group (e.g. a sub-project/committee) decided	[1]	[2]	[3]	[4]	[5]	[-999]
ent_inh3	[if laufend_beendet == 1] A person asserts their point of view [if laufend_beendet == 0] A person asserted their point of view	[1]	[2]	[3]	[4]	[5]	[-999]
ent_inh4	Decision by majority	[1]	[2]	[3]	[4]	[5]	[-999]
ent_inh5	Unanimous decision	[1]	[2]	[3]	[4]	[5]	[-999]
ent_inh6	[if laufend_beendet == 1] Unanimous decision, but in case of disagreement the Spokesperson decides [if laufend_beendet == 0] Unanimous decision, but in case of disagreement the Spokesperson decided	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Based on: Defila et al. (2006)]							

ent_inh_knflkt	[if laufend_beendet == 1] How often do frictions occur in decision-making when it comes to content-related decisions at the cluster level? [if laufend_beendet == 0] How often did frictions occur in decision-making when it came to content-related decisions at the cluster level?	(1) Never	(2) Rarely	(3) Sometimes	(4) Often	(5) Very often	Prefer not to indicate
		[1]	[2]	[3]	[4]	[5]	[-999]
	[Source: Own formulation]						

[if laufend_beendet == 1] To what extent do the following statements apply to the collaboration at cluster level? [if laufend_beendet == 0] To what extent do the following statements apply to the collaboration at cluster level?		(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
arb1	[if laufend_beendet == 1] There is a sense of unity at cluster level. [if laufend_beendet == 0] There was a sense of unity at cluster level.	[1]	[2]	[3]	[4]	[5]	[-999]
arb2	[if laufend_beendet == 1] There is fair interaction between the cluster members at cluster level. [if laufend_beendet == 0] There was fair interaction between the cluster members at cluster level.	[1]	[2]	[3]	[4]	[5]	[-999]
arb3	[if laufend_beendet == 1] Regular feedback is obtained from the sub-projects as to whether the set (sub-)goals of the cluster are being achieved. [if laufend_beendet == 0] Regular feedback was obtained from the sub-projects as to whether the set (sub-)goals of the cluster were being achieved.	[1]	[2]	[3]	[4]	[5]	[-999]
arb4	[if laufend_beendet == 1] All members at cluster level feel responsible for achieving the common cluster goals. [if laufend_beendet == 0] All members at cluster level felt responsible for achieving the common cluster goals.	[1]	[2]	[3]	[4]	[5]	[-999]
arb5	[if laufend_beendet == 1] The requirements for the sub-projects regarding the common cluster objectives are clearly formulated. [if laufend_beendet == 0] The requirements for the sub-projects regarding the common cluster objectives were clearly formulated.	[1]	[2]	[3]	[4]	[5]	[-999]
arb6	[if laufend_beendet == 1] The cluster objectives communicated to the DFG are realistic and achievable.	[1]	[2]	[3]	[4]	[5]	[-999]

	[if laufend_beendet == 0] The cluster objectives communicated to the DFG were realistic and achievable.		
arb7	[if laufend_beendet == 1] The cluster members know what tasks they need to complete for the achievement of the common cluster objectives. [if laufend_beendet == 0] The cluster members knew what tasks they needed to complete for the achievement of the common cluster objectives.	[1] [2] [3] [4] [5]	[-999]
arb8	[if laufend_beendet == 1] The cluster members are committed to the common objectives of the cluster. [if laufend_beendet == 0] The cluster members were committed to the common objectives of the cluster.	[1] [2] [3] [4] [5]	[-999]
arb9	[if laufend_beendet == 1] The internal activities of the sub-projects are coordinated to the common objectives of the cluster. [if laufend_beendet == 0] The internal activities of the sub-projects were coordinated to the common objectives of the cluster.	[1] [2] [3] [4] [5]	[-999]
arb10	[if laufend_beendet == 1] The cluster successfully transforms its skills into performance. [if laufend_beendet == 0] The cluster successfully transformed its skills into performance.	[1] [2] [3] [4] [5]	[-999]
arb11	[if laufend_beendet == 1] Communication at cluster level is open and participative. [if laufend_beendet == 0] Communication at cluster level was open and participative.	[1] [2] [3] [4] [5]	[-999]
[Source: Based on: Anderson (2000), Kauffeld & Frieling (2001)]			

[if laufend_beendet == 0 1] To what extent do the following statements apply to the collaboration at cluster level?		(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
prob1	[if laufend_beendet == 1] The cluster members reliably engage in the cluster. [if laufend_beendet == 0] The cluster members reliably engaged in the cluster.	[1]	[2]	[3]	[4]	[5]	[-999]
prob2	[if laufend_beendet == 1] The cluster members collaborate towards the achievement of the common research objectives, also beyond the boundaries of sub-projects. [if laufend_beendet == 0] The cluster members collaborated towards the achievement of the common research objectives, also beyond the boundaries of sub-projects.	[1]	[2]	[3]	[4]	[5]	[-999]
prob3	[if laufend_beendet == 1] The costs and benefits of cluster work are shared fairly between the members. [if laufend_beendet == 0] The costs and benefits of cluster work were shared fairly between the members.	[1]	[2]	[3]	[4]	[5]	[-999]
prob4	[if laufend_beendet == 1] The contributions made by the cluster members towards the achievement of the common research objectives are appropriately recognized at the cluster level. [if laufend_beendet == 0] The contributions made by the cluster members towards the achievement of the common research objectives were appropriately recognized at the cluster level.	[1]	[2]	[3]	[4]	[5]	[-999]
prob5	[if laufend_beendet == 1] The communication at cluster level is comprehensive. [if laufend_beendet == 0] The communication at cluster level was comprehensive.	[1]	[2]	[3]	[4]	[5]	[-999]
prob6	[if laufend_beendet == 1] The cluster members participate actively in communication within the cluster.	[1]	[2]	[3]	[4]	[5]	[-999]

	[if laufend_beendet == 0] The cluster members participated actively in communication within the cluster.		
prob7	[if laufend_beendet == 1] There is sufficient agreement among cluster members on the common objectives at cluster level. [if laufend_beendet == 0] There was sufficient agreement among cluster members on the common objectives at cluster level	[1] [2] [3] [4] [5]	[-999]
prob8	[if laufend_beendet == 1] The cluster members are able to overcome discipline-related differences. [if laufend_beendet == 0] The cluster members were able to overcome discipline-related differences.	[1] [2] [3] [4] [5]	[-999]
prob9	[if laufend_beendet == 1] The collaboration at cluster level is characterized by mutual trust. [if laufend_beendet == 0] The collaboration at cluster level was characterized by mutual trust.	[1] [2] [3] [4] [5]	[-999]
prob10	[if laufend_beendet == 1] The different working styles of the cluster members are compatible. [if laufend_beendet == 0] The different working styles of the cluster members were compatible.	[1] [2] [3] [4] [5]	[-999]
prob11	[if laufend_beendet == 1] The Spokesperson is primarily orientated towards the interests of the cluster as a whole. [if laufend_beendet == 0] The Spokesperson was primarily orientated towards the interests of the cluster as a whole.	[1] [2] [3] [4] [5]	[-999]
prob12	[if laufend_beendet == 1] The Spokesperson grants the PIs a sufficient degree of autonomy. [if laufend_beendet == 0] The Spokesperson granted the PIs a sufficient degree of autonomy.	[1] [2] [3] [4] [5]	[-999]
prob13	[if laufend_beendet == 1] The cluster members do everything in their power to reliably deliver their contributions to the achievement of the common cluster objectives. [if laufend_beendet == 0] The cluster members did everything in their power	[1] [2] [3] [4] [5]	[-999]

	to reliably deliver their contributions to the achievement of the common cluster objectives.		
prob14	<p>[if laufend_beendet == 1] The cluster is adequately prepared for the fact that delays or unforeseen situations may occur in the research process.</p> <p>[if laufend_beendet == 0] The cluster was adequately prepared for the fact that delays or unforeseen situations may have occurred in the research process.</p>	[1] [2] [3] [4] [5]	[-999]
[Source: Own formulation]			

6 Success of the Collaboration

Please estimate: To what extent do the following statements apply at the cluster level?							
 		(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
erfolg1_1	[if laufend_beendet == 1] The cluster achieves the objectives communicated to the DFG. [if laufend_beendet == 0] The cluster achieved the objectives communicated to the DFG.	[1]	[2]	[3]	[4]	[5]	[-999]
erfolg1_2	[if laufend_beendet == 1] The cluster achieves important research results that were not foreseeable at the beginning of the funding period. [if laufend_beendet == 0] The cluster achieved important research results that were not foreseeable at the beginning of the funding period.	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Own formulation]

erfolg2	Does the research cluster plan to apply for follow-up funding?	
	Yes	[1]
	No, the maximum funding duration has been reached	[2]
	No, due to other reasons	[3]
	Prefer not to indicate	[-999]

[Source: Own formulation]

erfolg3	[if erfolg2 == 1] How likely do you think it is that the cluster will obtain follow-up funding?					
	(1) Extremely unlikely	2	3	4	(5) Extremely likely	Prefer not to indicate
	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Based on: John (2019)]

7 Best Practice in Collaborative Research

In your opinion, which of the measures are suitable for increasing the probability that a research cluster will achieve the overall research objectives at cluster level communicated to the funding body?		(1) Not at all suitable	2	3	4	(5) Very suitable	Prefer not to indicate
best_pract1	When selecting the cluster members, preference should be given to persons with whom there has already been successful collaboration in the past.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract2	It should always be ensured, especially by the Spokesperson, that all cluster members feel valued.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract3	It is indispensable to have a leader in the cluster management who is able to mediate conflicts.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract4	The ability to work in a team should be an important criterion for the selection of cluster members.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract5	All members at cluster level should be taken into consideration in the development of common research questions and objectives.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract6	In order to strengthen cohesion at cluster level, a shared self-image should be formulated.	[1]	[2]	[3]	[4]	[5]	[-999]
best_pract_7	The management style should be as participative as possible and involve the cluster members in all important decisions.	[1]	[2]	[3]	[4]	[5]	[-999]

best_pract8	The Spokesperson and the cluster members should closely monitor whether the cluster is achieving its (sub-) objectives.	[1] [2] [3] [4] [5]	[-999]
best_pract9	The speaker should proactively address potential problems in the collaboration.	[1] [2] [3] [4] [5]	[-999]
best_pract10	The cluster members should be given as much freedom as possible to be able to conduct their research.	[1] [2] [3] [4] [5]	[-999]
[Source: Own formulation]			

8 Individual Interests

[if laufend_beendet == 1] In the following we are interested in what you as a expect from your participation in the research cluster [if laufend_beendet == 0] In the following we are interested in what you expected as a from your participation in the research cluster.		(1) Not at all	2	3	4	(5) Fully	Prefer not to indicate
erwart1_1	Access to third-party funds	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_2	Access to scientific infrastructure (e.g. large-scale facilities, data and information infrastructures, laboratories)	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_3	Enjoyment of working with scientists whom I personally like	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_4	Contribution to the shaping of new research fields and research questions	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_5	Collaboration with renowned scientists	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_6	Increase in the quantity of my publication output	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_7	Increase in the quality of my publication output	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_8	Improvement of the chances for further external funding	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_9	Networking in the (inter)national scientific community	[1]	[2]	[3]	[4]	[5]	[-999]
erwart1_10	Scientific contribution towards the solution of societal challenges	[1]	[2]	[3]	[4]	[5]	[-999]

[Source: Own formulation]

[if pers_erwart1_1 2 3 4 5 6 7 8 9 10 > 1 & if laufend_beendet == 1:] How confident are you that these expectations will be met? [if pers_erwart1_1 2 3 4 5 6 7 8 9 10 > 1 & laufend_beendet == 1:] To what extent were these expectations met?		(1) Not confident at all	2	3	4	(5) Very confident	Prefer not to indicate
erwart2_1	[if pers_erwart1_1 > 1] Access to third-party funds	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_2	[if pers_erwart1_2 > 1] Access to infrastructure	[1]	[2]	[3]	[4]	[5]	[-999]

	(e.g. large-scale facilities, data and information infrastructures, laboratories)						
erwart2_3	[if pers_erwart1_3 > 1] Enjoyment of working with scientists whom I personally like	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_4	[if pers_erwart1_4 > 1] Contribution to the shaping of new research fields and research questions	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_5	[if pers_erwart1_5 > 1] Collaboration with renowned scientists	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_6	[if pers_erwart1_6 > 1] Increase in the quantity of my publication output	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_7	[if pers_erwart1_7 > 1] Increase in the quality of my publication output	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_8	[if pers_erwart1_8 > 1] Improvement of the chances for further external funding	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_9	[if pers_erwart1_9 > 1] Networking in the (inter)national scientific community	[1]	[2]	[3]	[4]	[5]	[-999]
erwart2_10	[if pers_erwart1_10 > 1] Scientific contribution towards the solution of societal challenges	[1]	[2]	[3]	[4]	[5]	[-999]
[Source: Own formulation]							

9 Membership in the Collaboration

mitgl_fv	[if laufend_beendet == 1] Have you been a member of the research cluster since its start?	
	[if laufend_beendet == 0] Have you been a member of the research cluster for its entire period?	
	Yes	[1]
	No	[2]
	Prefer not to indicate	[-999]
[Source: Own formulation]		

[if laufend_beendet == 1 & mitgl_zeit == 0] How long have you been a member of the research cluster?		
[if laufend_beendet == 0 & mitgl_zeit == 0] How long were you a member of the research cluster?		
mitglied	0 to 4 Years	[1]
	5 to 9 Years	[2]
	10 to 14 Years	[3]
[Source: Own formulation]		

10 Sociodemography

alter	How old are you?	
	< 35 Years	[1]
	35 to 44 Years	[2]
	45 to 54 Years	[3]
	55 to 64 Years	[4]
>65 Years	[5]	
[Source: Own formulation]		

geschlecht	Please indicate your gender.	
	Male	[1]
	Female	[2]
[Source: Own formulation]		

b_position	Please indicate your current employment position.	
	Professor	[1]
	Academic council	[2]
	Research assistant	[3]
	Currently no employment in the academic-scientific field (incl. private lecturers without employment)	[4]
	Other position in the academic-scientific field	[5]
	Prefer not to indicate	[-999]
[Source: Neufeld & Johann (2016)]		

berufung	[if beschaeft_position_1 == 1]: Please indicate the year of your initial appointment.	
	0 to 9 Years	[1]
	10 to 19 Years	[2]
	20 to 29 Years	[3]
	30 to 39 Years	[4]
	>40 Years	[5]
[Source: Neufeld & Johann (2016)]		

promotion	Please indicate the year of your (first) doctorate.	
	0 to 9 Years	[1]
	10 to 19 Years	[2]
	20 to 29 Years	[3]
	30 to 39 Years	[4]
>40 Years	[5]	
[Source: Neufeld & Johann (2016)]		

You have now reached the end of the survey. Thank you very much for your participation! Finally, you have the opportunity to leave us comments and suggestions on the questionnaire.

Sources

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