SHORT TERM SCIENTIFIC MISSION (STSM) SCIENTIFIC REPORT: QUANTITATIVE RESEARCH ANALYSIS COST ACTION: CA15221

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1. Introduction: Purpose of the STSM & Working Procedure

The purpose of the STSM was to analyze survey data from stellar colleagues, collected as part of COST Action 15221, Advancing effective institutional models towards cohesive teaching, learning, research and writing development." The STSM contributed to the fulfillment of two research objectives of MoU:

- 1. "Co-ordinate the collation and cross tabulation of data gathered from key informants in order to identify the common ground that exists in terms of positive development and performance through purposes, processes, knowledge/scholarship, skills development and values, across the four areas of teaching, learning, research and writing"
- 2. "Consider and propose, mindful of the insights provided from the analysis of data and taking into account existing models, what alternative centrally provided models and practices might best support the effective, successful and productive development of learning, teaching, research and writing."

The statistical analysis performed on the data answered the following questions:

- RQ1. What is common across the data what are the common and most predominant characteristics and behaviours of stellar colleagues?
- RQ2: What is the support they find most useful?
- RQ3: What are the overlaps between supports?
- RQ4: What model of centralised support would be best for stellar colleagues?

The STSM work was carried out at the University of Warsaw, Poland, with close collaboration of Prof. Maria Zaleska, full member of the COST Action. Work involved statistical analysis of survey data from 263 participants, who answered a self-report questionnaire designed for the purpose of the action. The questionnaire included 6 Sections and 36 questions in total. Open ended questions were excluded from the analysis. The first stage of data analysis involved cleaning up the data, identifying missing data (and recording them as such) and recoding of items (when required). The SPSS data set was compared to the Excel File to ensure correct data entry (or recoding) as required.

Descriptive analyses were performed on each question, and detailed report was provided on frequencies (percentages), means and standard deviations. Results obtained from this type of analysis provided a general overview of the participants characteristics and behaviors, as well as the possibility to compare answers from different sections, e.g., perceptions of the strongest barriers, the most useful forms of support for each area, the strongest types of motivation etc.

Correlation analyses were also performed in order to identify trends within the data. This type of analysis identified relationships between the self-perceptions of success in Teaching, Learning, Research and Writing (Item: I identify myself as a successful teacher/learner/ researcher/ writer) and Motivations, Barriers, Types of Support, Personality traits etc. Correlations were particularly examined in terms of trends or commonalities between the four areas.

Preliminary results were discussed with Prof. Zaleska particularly in terms of how they relate to the purpose of the Action and the specific research questions. The discussion focused on the ways results might be interpreted and the implications they might have in suggesting models of support within Institutions.

2. <u>Statistical Analyses and Results</u>

2.1.Sample Characteristics

Tables from 1-6 show sample composition characteristics in terms of gender distribution, academic qualifications, years of employment, career stage, mobility across institutions, institution characteristics (public/private).

		Frequency	Percent	Valid Percent	Cumulative Percent			
	Male	114	43.3	45.2	45.2			
	Female	137	52.1	54.4	99.6			
Valid	Rather not	1	.4	.4	100.0			
	disclose							
	Total	252	95.8	100.0				
Missing	System	11	4.2					
Total		263	100.0					

		Frequency	Percent	Valid Percent	Cumulative Percent
	Bachelor degree	3	1.1	1.2	1.2
	Masters	12	4.6	4.8	6.0
	PhD/Doctoral level	163	62.0	64.9	70.9
Valid	education				
	Habilitation	67	25.5	26.7	97.6
	Other	6	2.3	2.4	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

 Table 2: Academic Qualifications

		Frequency	Percent	Valid Percent	Cumulative Percent
	Early career researcher (pre-doctorate, 1-7 years postdoctorate and/or 1-7 years higher education experience)	39	14.8	15.5	15.5
Valid	Consolidator (7-12 years higher education experience and/or 7-12 years postdoctorate)	42	16.0	16.7	32.1
	Expert (12+ higher education experience)	171	65.0	67.9	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

 Table 3: Career stage

Table 4: Public/ Private Institution

		Frequency	Percent	Valid Percent	Cumulative Percent
	Public - largely publicly funded	221	84.0	88.8	88.8
Valid	Private - largely privately funded	28	10.6	11.2	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	1-3 years	23	8.7	9.1	9.1
	4-7 years	31	11.8	12.3	21.3
	8-12 years	56	21.3	22.1	43.5
Valid	13-17	32	12.2	12.6	56.1
	years				
	18+ years	111	42.2	43.9	100.0
	Total	253	96.2	100.0	
Missing	System	10	3.8		
Total		263	100.0		

 Table 5: Length of time at current institution

 Table 6: Work in other higher education institutions

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	143	54.4	56.7	56.7
Valid	No	109	41.4	43.3	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

2.2. Perceptions of success as teacher, writer, learner, researcher

Tables 7-11 indicate the distribution of answers as regards the extent to which self-perceptions of being a successful writer, teacher, learner or researcher or manager. As could be noted in the respective tables (Valid Percentage column, figures in red) the area of Learning has the greatest number of participants rating themselves 4-5 (88% of participants), while the lowest percentage of 4-5 answers, is noted in Management, 62.9%.

Table 12 indicates correlation analyses between self-perceptions as a successful teacher, writer, learner, researcher and manager. As could be noted in the table, all areas are related to each other. However the strongest correlations were revealed between the roles of writer and researcher (Pearson r=.67, p<.01), teacher and learner (Pearson r=.46, p<.01).

		Frequency	Percent	Valid Percent	Cumulative Percent
	Strongly disagree	4	1.5	1.6	1.6
	2	13	4.9	5.2	6.7
Walid	3	61	23.2	24.2	31.0
Valid	4	122	46.4	48.4	79.4
	Strongly agree	52	19.8	20.6	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

Table 7: I identify myself as successful writer

Table 8: I identify myself as a successful researcher

		Frequency	Percent	Valid Percent	Cumulative Percent
	Strongly disagree	3	1.1	1.2	1.2
	2	15	5.7	6.0	7.1
Valid	3	54	20.5	21.4	28.6
Valid	4	118	44.9	46.8	75.4
	Strongly agree	62	23.6	24.6	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

Table 9: I identify myself as a successful teacher

		Frequency	Percent	Valid Percent	Cumulative Percent
	Strongly disagree	3	1.1	1.2	1.2
	2	3	1.1	1.2	2.4
Valid	3	28	10.6	11.1	13.5
Valid	4	106	40.3	42.1	55.6
	Strongly agree	112	42.6	44.4	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

Tuble 10. 1 fuchtify mysen us a successful real field							
		Frequency	Percent	Valid Percent	Cumulative Percent		
	Strongly disagree	1	.4	.4	.4		
	2	3	1.1	1.2	1.6		
X7-1:1	3	25	9.5	9.9	11.5		
Valid	4	118	44.9	46.8	58.3		
	Strongly agree	105	39.9	41.7	100.0		
	Total	252	95.8	100.0			
Missing	System	11	4.2				
Total		263	100.0				

Table 10: I identify myself as a successful learner

 Table 11: I identify myself as a successful manager

		Frequency	Percent	Valid Percent	Cumulative Percent
	Strongly disagree	5	1.9	2.0	2.0
	2	20	7.6	8.0	10.0
Valid	3	68	25.9	27.1	37.1
vand	4	101	38.4	40.2	77.3
	Strongly agree	57	21.7	22.7	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 12: Correlations between perceptions of success across the 5 areas

		I identify myself as successful writer	I identify myself as a successful researcher	I identify myself as a successful teacher	I identify myself as a successful learner	I identify myself as a successful manager
I identify myself as	Pearson Correlation	1	<u>.665**</u>	.335**	.423**	.272**
successful writer	Sig. (2-tailed)		.000	.000	.000	.000
	Ν	252	252	251	251	250
I identify myself as a successful	Pearson Correlation	.665**	1	.300**	.412**	.152*
researcher	Sig. (2-tailed)	.000		.000	.000	.016

	Ν	252	252	251	251	250
	Pearson	.335**	.300**	1	.455**	.312**
I identify myself as	Correlation					
a successful teacher	Sig. (2-tailed)	.000	.000		.000	.000
	Ν	251	251	252	251	251
	Pearson	.423**	.412**	.455**	1	.365**
I identify myself as	Correlation					
a successful learner	Sig. (2-tailed)	.000	.000	.000		.000
	Ν	251	251	251	252	250
I identify myself as a successful	Pearson	.272**	.152*	.312**	.365**	1
	Correlation					
	Sig. (2-tailed)	.000	.016	.000	.000	
manager	Ν	250	250	251	250	251

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

2.3. Support for teaching, learning, research, writing

As regards reporting on existing support, Tables 13-16 indicate answers of participants across all areas, writing, research, teaching/learning and professional development. As can be noted, the presence of support is poorest for Writing: 23%; more extended for Research 38%; while Teaching & learning support at the extent of 31.6% and professional development 35%. To be noted is the percentage of individuals answering "Difficult to say", which varies from 1/5 to 1/3 of the sample reporting so across the different areas. Cross-tabulation between Supports across different areas indicated that institutions providing one type of support e.g., Writing support were more likely to provide other types of support too, e.g., Research support, Teaching and learning etc. (Chi Square value was significant at p<.001.) The detailed cross-tabulations are indicated in Tables 17-22.

		Frequency	Percent	Valid Percent	Cumulative Percent			
	Yes	58	22.1	23.0	23.0			
	No	133	50.6	52.8	75.8			
Valid	Difficult to	61	23.2	24.2	100.0			
	say							
	Total	252	95.8	100.0				
Missing	System	11	4.2					
Total		263	100.0					

Table 13. Writing/publishing support for staff

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	80	30.4	31.6	31.6
	No	116	44.1	45.8	77.5
Valid	Difficult to	57	21.7	22.5	100.0
	say				
	Total	253	96.2	100.0	
Missing	System	10	3.8		
Total		263	100.0		

Table 14. Teaching and learning support

Table 15. Research support for staff?

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	96	36.5	38.1	38.1
	No	91	34.6	36.1	74.2
Valid	Difficult to	65	24.7	25.8	100.0
	say				
	Total	252	95.8	100.0	
Missing	s System	11	4.2		
Total		263	100.0		

Table 16. Professional development and/or staff training and development?

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	89	33.8	35.2	35.2
	No	89	33.8	35.2	70.4
Valid	Difficult to	75	28.5	29.6	100.0
	say				
	Total	253	96.2	100.0	
Missing	System	10	3.8		
Total		263	100.0		

Table 17. Cross-tabulations: Overlap between Writing/publishing support for staff? *
Teaching and learning support

		Teaching and through a te which aims	Total		
		Yes	No	Difficult to	
				say	
	Yes	42	6	10	58
Writing/publishing	No	19	91	23	133
support for staff?	Difficult to	18	19	24	61
	say				
Total		79	116	57	252

Table 18. Cross-tabulations: Writing/publishing support for staff? * Research support
for staff?

	Rese	arch suppo	Total		
		Yes	No	Difficult to say	
	Yes	44	5	9	58
Writing/publishing	No	29	78	26	133
support for staff?	Difficult to	22	8	30	60
	say				
Total		95	91	65	251

Count							
	Professiona	l development	and/or staff	Total			
		trainii	training and development?				
		Yes	No	Difficult to			
				say			
	Yes	39	5	14	58		
Writing/publishing	No	26	71	36	133		
support for staff?	Difficult to	23	13	25	61		
	say						
Total		88	89	75	252		

Table 19. Cross-tabulation: Writing/publishing support for staff? * Professional development and/or staff training

Table 20. Cross-tabulation: Research support for staff? * Teaching and learning support

		Teachi	Teaching and learning support			
		Yes	No	Difficult to say		
	Yes	50	28	18	96	
Research support for	No	10	67	14	91	
staff?	Difficult to	20	21	24	65	
	say					
Total		80	116	56	252	

Table 21. Crosstabulation: Research support*Professional development

		Professional de	Total		
	Yes	No	Difficult to say		
	Yes	57	19	20	96
Research support for	No	13	58	20	91
staff?	Difficult to	18	12	35	65
	say				
Total		88	89	75	252

			Professional development and/or staff training and development?				
		Yes	No	Difficult to say			
Teaching and learning	Yes	52	9	19	80		
support (for example	No	21	68	27	116		
through a teaching and		16	12	29	57		
learning centre which aims primarily to support staff as	Difficult to say						
teachers)?							
Total		89	89	75	253		

Table 22: Cross tabulation: Teaching and learning support * Professional development and/or staff training and development?

Independent samples t-tests were conducted to assess whether there was any difference in selfperceptions of success across the four areas between the two categories: 1. those reporting the existence of support and 2. Those reporting no support (YES_NO Centralized support). Results showed no significant differences in self perception of success between those receiving centralized writing/teaching/research support and those not receiving support (p value >.05). Tables 23-25 indicate group statistics; as observed the values for means in each case are highly similar between YES-NO sub-groups.

Table 23: Group Statistics-Writing Support							
	Writing/publishing	Ν	Mean	Std.	Std. Error		
	support for staff?			Deviation	Mean		
I identify myself as	Yes	57	3.9123	.78560	.10406		
successful writer	No	133	3.7368	.90365	.07836		
I identify myself as a	Yes	57	3.8596	.85437	.11316		
successful researcher	No	133	3.8797	.88795	.07699		
I identify myself as a	Yes	58	4.3793	.61637	.08093		
successful teacher	No	132	4.1591	.92323	.08036		

Table 22. C G4 . 4. 4. XX7 .4. a

	Teaching and learning support	Ν	Mean	Std. Deviation	Std. Error Mean
I identify myself as	Yes	79	3.8861	.89137	.10029
successful writer	No	116	3.7931	.85990	.07984
I identify myself as a	Yes	79	3.8861	.93353	.10503
successful researcher	No	116	3.9397	.83706	.07772
I identify myself as a	Yes	80	4.3875	.73766	.08247
successful teacher	No	115	4.2087	.83241	.07762

Table 24: Group Statistics: Teaching and learning support

Research support for Ν Mean Std. Std. Error Deviation staff? Mean 95 I identify myself as Yes 3.8842 .87352 .08962 successful writer .09121 91 No 3.7253 .87007 I identify myself as a 95 3.9053 .87609 .08988 Yes 91 successful researcher No 3.8791 .92898 .09738 I identify myself as a Yes 96 4.3125 .07596 .74428 successful teacher No 90 4.2444 .75418 .07950

Table 25: Group Statistics: Research support

2.4. Barriers to writing

As regards barriers to writing, the strongest barrier reported was "Other workload', (Mean=3.49) reported on the highest end (scores 4-5) by 55% of the sample and "Lack of time" (Mean=3.44) reported by 53% of the sample. The weakest barrier was Dislike of Writing (8.9% of the sample reported 4-5 on this item. Tables 26- provide detailed frequencies and percentages for each barrier. Nonetheless correlation analyses conducted afterwards between specific barriers and selfidentification as a successful writer revealed a different picture. Results showed no significant correlations with 'Other workload' or 'Lack of time' but two significant negative relationships with 'Lack of confidence about my writing' (r=-.36, p<.01) and 'Dislike of writing' (p=-.32, p<.01).

	Tuble 20. Dull	Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	19	7.2	7.6	7.6
	challenges				
	2	46	17.5	18.3	25.9
Valid	3	47	17.9	18.7	44.6
	4	71	27.0	28.3	72.9
	significant barriers	68	25.9	27.1	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 26. Barriers: Other workload e.g. teaching, admin

Table 27. Barriers: Dislike of writing

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	136	51.7	55.1	55.1
	challenges				
	2	50	19.0	20.2	75.3
Valid	3	39	14.8	15.8	91.1
	4	12	4.6	4.9	96.0
	significant barriers	10	3.8	4.0	100.0
	Total	247	93.9	100.0	
Missing	g System	16	6.1		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	81	30.8	32.3	32.3
	challenges				
	2	47	17.9	18.7	51.0
Valid	3	53	20.2	21.1	72.1
	4	37	14.1	14.7	86.9
	significant barriers	33	12.5	13.1	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	19	7.2	7.6	7.6
	challenges				
	2	37	14.1	14.8	22.4
Valid	3	61	23.2	24.4	46.8
	4	81	30.8	32.4	79.2
	significant barriers	52	19.8	20.8	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

Table 29. Barriers: Lack of time generally

Table 30.	Barriers:	Inadeo	quate	language skills	5

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	125	47.5	50.0	50.0
	challenges		u la		
	2	50	19.0	20.0	70.0
Valid	3	47	17.9	18.8	88.8
	4	23	8.7	9.2	98.0
	significant barriers	5	1.9	2.0	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

Table 31. Barriers:	Lack of confidence	e about my writing
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		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	123	46.8	49.6	49.6
	challenges		u l		
	2	70	26.6	28.2	77.8
Valid	3	42	16.0	16.9	94.8
	4	10	3.8	4.0	98.8
	significant barriers	3	1.1	1.2	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	109	41.4	43.8	43.8
	challenges				
	2	58	22.1	23.3	67.1
Valid	3	47	17.9	18.9	85.9
	4	27	10.3	10.8	96.8
	significant barriers	8	3.0	3.2	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 32. Barriers: Lack of recognition of my writing by my institution

Table 33. Barriers:	Personal/professional	disagreement with	'nublish or n	erish' mentality
Tuble 55. Dullies	i ci sonal pi oressional	ansagi comont with	puonsii oi p	crisii incircancy

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	81	30.8	32.5	32.5
	challenges				
	2	62	23.6	24.9	57.4
Valid	3	79	30.0	31.7	89.2
	4	16	6.1	6.4	95.6
	significant barriers	11	4.2	4.4	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	quite manageable	67	25.5	26.9	26.9
	challenges				
	2	51	19.4	20.5	47.4
Valid	3	49	18.6	19.7	67.1
	4	44	16.7	17.7	84.7
	significant barriers	38	14.4	15.3	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
	quite manageable	89	33.8	35.9	35.9
	challenges				
	2	51	19.4	20.6	56.5
Valid	3	54	20.5	21.8	78.2
	4	30	11.4	12.1	90.3
	significant barriers	24	9.1	9.7	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 35. Barriers: Lack of formal writing training

Table 36 Barriers: Lack of a network of writers							
		Frequency	Percent	Valid Percent	Cumulative Percent		
	quite manageable	79	30.0	31.6	31.6		
	challenges		ı				
	2	57	21.7	22.8	54.4		
Valid	3	63	24.0	25.2	79.6		
	4	30	11.4	12.0	91.6		
	significant barriers	21	8.0	8.4	100.0		
	Total	250	95.1	100.0			
Missing	System	13	4.9				
Total		263	100.0				

Table 36 Barriers: Lack of a network of writers

 Table 37. Summary: Means and standard deviations for barriers to Writing

	N	Mean	Std. Deviation	Std. Error Mean
Other workload e.g. teaching	251	3.49	1.272	.080
Lack of time generally	250	3.44	1.192	.075
Inadequate language skills	250	1.93	1.112	.070
Lack of confidence about my	248	1.79	.946	.060
writing				
Lack of recognition of my writing	249	2.06	1.162	.074
by my institution				

Lack of reward for my writing	251	2.58	1.407	.089
from my institution				
Personal/ professional	249	2.25	1.113	.071
disagreement with 'publish or				
perish' mentality				
Dislike of writing	247	1.83	1.114	.071
Lack of institutional support	249	2.74	1.417	.090
Lack of formal writing training	248	2.39	1.336	.085
Lack of a network of writers	250	2.43	1.276	.081

2.5. Motivation on Writing

As regards Motivation on Writing, Tables 38-47 indicate the distribution of answers on the various types of motivation. The high impact end (scores 4-5) has been highlighted in red on each table. Passion for the discipline holds the highest scores (Mean=4.02), as 74% rated this motivator 4/5. The other 3 motivators have very similar mean scores and percentages a. 'The wish to advance my career' (Mean=3.78 and 62% of the sample rated 4/5) b. 'Wish to be recognized in the field (Mean=3.72) 63%) and c. 'Desire to share your work' (Mean=3.76; 64% of the sample). But correlations reveal that self-identification as a successful writer most strongly relates to "The wish to be recognized in the field r= .20, p<.01. The 3 factors identified above also have significant correlations but weak ones (varying from r=.10 to r=.14, p<.05).

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	41	15.6	16.3	16.3
	impact				
	2	49	18.6	19.5	35.9
Valid	3	57	21.7	22.7	58.6
	4	64	24.3	25.5	84.1
	impact hugely	40	15.2	15.9	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 38. Motivation on writing: The support of colleagues

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	31	11.8	12.4	12.4
	impact				
	2	44	16.7	17.5	29.9
Valid	3	47	17.9	18.7	48.6
	4	72	27.4	28.7	77.3
	impact hugely	57	21.7	22.7	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

 Table 39. Motivation on writing: The opportunity to co-author

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	14	5.3	5.6	5.6
	impact				
	2	17	6.5	6.8	12.4
Valid	3	33	12.5	13.1	25.5
	4	72	27.4	28.7	54.2
	impact hugely	115	43.7	45.8	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 41.	Motivation on	writing:Desire to	share your work
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		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	22	8.4	8.8	8.8
	impact				
	2	16	6.1	6.4	15.2
Valid	3	52	19.8	20.8	36.0
	4	70	26.6	28.0	64.0
	impact hugely	90	34.2	36.0	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	16	6.1	6.4	6.4
	impact				
	2	22	8.4	8.8	15.3
Valid	3	70	26.6	28.1	43.4
	4	73	27.8	29.3	72.7
	impact hugely	68	25.9	27.3	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 42. Motivation on writing: Belief that your writing can make a difference

Table 43. Motivation on writing: Desire to learn more about my work

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	13	4.9	5.2	5.2
	impact				
	2	24	9.1	9.6	14.8
Valid	3	70	26.6	28.0	42.8
	4	71	27.0	28.4	71.2
	impact hugely	72	27.4	28.8	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

Table 14 Mativation on	whiting	The obligation	to publich or o	noquinomont
Table 44. Motivation on	writing:	i the obligation	to publish as a	requirement

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	24	9.1	9.6	9.6
	impact				
	2	35	13.3	13.9	23.5
Valid	3	72	27.4	28.7	52.2
	4	58	22.1	23.1	75.3
	impact hugely	62	23.6	24.7	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	17	6.5	6.8	6.8
	impact				
	2	26	9.9	10.4	17.1
Valid	3	51	19.4	20.3	37.5
	4	73	27.8	29.1	66.5
	impact hugely	84	31.9	33.5	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 45. Motivation on writing: The wish to be recognised in the field

Table 46. Motivation on writing: The wish to advance my career

		Frequency	Percent	Valid Percent	Cumulative Percent
	hardly any	22	8.4	8.8	8.8
	impact				
	2	17	6.5	6.8	15.6
Valid	3	55	20.9	22.0	37.6
	4	57	21.7	22.8	60.4
	impact hugely	99	37.6	39.6	100.0
	Total	250	95.1	100.0	
Missing	s System	13	4.9		
Total		263	100.0		

Table 47. Motivation on writing: Motivation for writing

	Ν	Mean	Std. Deviation	Std. Error Mean
The support of colleagues	251	3.05	1.321	.083
The opportunity to co-author	251	3.32	1.330	.084
Passion for your discipline	251	4.02	1.169	.074
Desire to share your work	250	3.76	1.251	.079
Belief that your writing can make	249	3.62	1.161	.074
a difference				
Desire to learn more about my	250	3.66	1.144	.072
work; writing for professional				
understanding				

The obligation to publish as a requirement around funding	251	3.39	1.262	.080
secured				
The wish to be recognised in the	251	3.72	1.221	.077
field				
The wish to advance my career	250	3.78	1.279	.081

2.6. Writing Support

Tables 48-63 show answer distributions for each type of writing support and the final table (Table 63) a summary for all items. Results show that the most useful support for writing was 'Access to relevant literature' (Mean=4.3); 78% of participants checked this item as 4 or 5. The second most highly rated support was 'Structured Feedback' (Mean=3.75) also checked as 4 or 5 by 68% of the sample. 'Dedicated long blocks' and 'Editor corrections/services' were rated highly similar (Mean= 3.7), and checked 4 or 5 by 60% of the sample. Correlation analyses showed that self-perceptions as a successful writer only correlated significantly with 'Access to relevant literature', r=.18, p <.01.

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	25	9.5	10.2	10.2
	2	27	10.3	11.0	21.1
Valid	3	58	22.1	23.6	44.7
Valid	4	67	25.5	27.2	72.0
	most useful	69	26.2	28.0	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

Table 48. Writing support: Writing workshops, courses, lectures

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	18	6.8	7.3	7.3
	2	19	7.2	7.7	15.0
Walid	3	62	23.6	25.1	40.1
Valid	4	63	24.0	25.5	65.6
	most useful	85	32.3	34.4	100.0
	Total	247	93.9	100.0	
Missing	System	16	6.1		
Total		263	100.0		

 Table 49. Writing support: Mentoring

 Table 50. Writing support: Writing Groups

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	35	13.3	14.5	14.5
	2	41	15.6	17.0	31.5
Valid	3	74	28.1	30.7	62.2
Valid	4	64	24.3	26.6	88.8
	most useful	27	10.3	11.2	100.0
	Total	241	91.6	100.0	
Missing	System	22	8.4		
Total		263	100.0		

 Table 51. Writing support: Structured feedback

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	5	1.9	2.0	2.0
	2	19	7.2	7.7	9.7
Walid	3	55	20.9	22.2	31.9
Valid	4	82	31.2	33.1	64.9
	most useful	87	33.1	35.1	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	35	13.3	14.5	14.5
	2	51	19.4	21.1	35.5
Valid	3	86	32.7	35.5	71.1
vand	4	40	15.2	16.5	87.6
	most useful	30	11.4	12.4	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

Table 52. Writing support: Reading Circles

Table 53. Writing support: Dedicated short blocks

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	20	7.6	8.1	8.1
	2	30	11.4	12.1	20.2
X 7 - 1: -1	3	85	32.3	34.3	54.4
Valid	4	62	23.6	25.0	79.4
	most useful	51	19.4	20.6	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 54. Writing support: Dedicated long blocks

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	17	6.5	6.9	6.9
	2	22	8.4	8.9	15.8
X 7 - 1: -1	3	60	22.8	24.3	40.1
Valid	4	59	22.4	23.9	64.0
	most useful	89	33.8	36.0	100.0
	Total	247	93.9	100.0	
Missing	System	16	6.1		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	3	1.1	1.2	1.2
	2	5	1.9	2.0	3.2
Valid	3	45	17.1	18.1	21.3
Valid	4	62	23.6	24.9	46.2
	most useful	134	51.0	53.8	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

 Table 55. Writing support: Access to relevant literature

Table 56. Writing support: Editor corrections/services

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	13	4.9	5.3	5.3
	2	29	11.0	11.8	17.1
X 7 - 1: -1	3	56	21.3	22.9	40.0
Valid	4	67	25.5	27.3	67.3
	most useful	80	30.4	32.7	100.0
	Total	245	93.2	100.0	
Missing	System	18	6.8		
Total		263	100.0		

Table 57. Writing	support: En	glish language sup	port

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	30	11.4	12.1	12.1
	2	21	8.0	8.5	20.6
V - 1: -1	3	52	19.8	21.0	41.5
Valid	4	60	22.8	24.2	65.7
	most useful	85	32.3	34.3	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	19	7.2	7.7	7.7
	2	36	13.7	14.6	22.3
Valid	3	65	24.7	26.3	48.6
Valid	4	76	28.9	30.8	79.4
	most useful	51	19.4	20.6	100.0
	Total	247	93.9	100.0	
Missing	System	16	6.1		
Total		263	100.0		

Table 58. Writing support: Training in supervising others

Table 59. Writing support: Training in working as part of an editorial board

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	23	8.7	9.3	9.3
	2	31	11.8	12.6	21.9
Valid	3	68	25.9	27.5	49.4
Valid	4	79	30.0	32.0	81.4
	most useful	46	17.5	18.6	100.0
	Total	247	93.9	100.0	
Missing	System	16	6.1		
Total		263	100.0		

Table 60. Writing support: Tailored support in writing for mainstream

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	45	17.1	18.6	18.6
	2	49	18.6	20.2	38.8
Valid	3	75	28.5	31.0	69.8
Valid	4	47	17.9	19.4	89.3
	most useful	26	9.9	10.7	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	72	27.4	29.5	29.5
	2	46	17.5	18.9	48.4
Walid	3	68	25.9	27.9	76.2
Valid	4	37	14.1	15.2	91.4
	most useful	21	8.0	8.6	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

Table 61. Writing support: Social media writing training

 Table 62. Writing support: Communications/media skills training

		Frequency	Percent	Valid Percent	Cumulative Percent
	least useful	66	25.1	27.6	27.6
	2	47	17.9	19.7	47.3
V - 1: -1	3	59	22.4	24.7	72.0
Valid	4	46	17.5	19.2	91.2
	most useful	21	8.0	8.8	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

Table 63. Summary Writing support

	Ν	Minimum	Maximum	Mean	Std. Deviation
Writing workshops,	246	1.00	5.00	3.5203	1.28317
courses, lectures					
Reading Circles	242	1.00	5.00	2.9132	1.20369
Dedicated short blocks	248	1.00	5.00	3.3790	1.17389
Dedicated long blocks	247	1.00	5.00	3.7328	1.23032
Access to relevant	249	1.00	5.00	4.2811	.91211
literature					
Editor	245	1.00	5.00	3.7020	1.19296
corrections/services					
English language	248	1.00	5.00	3.6008	1.35198
support					
Training in supervising	247	1.00	5.00	3.4211	1.18974
others					

Training in working as	247	1.00	5.00	3.3806	1.19318
part of an editorial					
board					
Training in publishing	241	1.00	5.00	3.3693	1.21129
Tailored support in	242	1.00	5.00	2.8347	1.24472
writing for mainstream					
Social media writing	244	1.00	5.00	2.5451	1.29020
training					
Communications/medi	239	1.00	5.00	2.6192	1.30666
a skills training					
Mentoring	247	1.00	5.00	3.7206	1.21930
Valid N (listwise)	225				

2.7. Motivation to Research and Research Collaborators

Tables 64 to 74 present answers for each item assessing motivation to research. Items rated as most influential include: 'Intrinsic motivation' (Mean=4.7; 94% of the sample rated the item 4 or 5), 'Desire to learn more' (Mean=4.4; 86% of the sample rated the item 4 or 5), 'Desire to progress the field' (Mean= 4.3; 84% rated the item as 4 or 5). Self perceptions as a successful research had significant correlations with the following items:

- A. Desire to progress the field (r=.34, p<.01)
- B. Sense of competition within my field (r=.20, p<.01)
- C. Desire to learn more (r=.21, p<.01)
- D. Desire to improve the quality of my teaching (r=.17, p<.01).

Self-perception of being a successful researcher did not show any significant correlations with Intrinsic motivation.

		Frequency	Percent	Valid Percent	Cumulative Percent
	2	3	1.1	1.2	1.2
	3	13	4.9	5.2	6.4
Valid	4	39	14.8	15.6	22.0
	is very influential	195	74.1	78.0	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

 Table 64. Motivation to research: Intrinsic motivation

		Frequency	Percent	Valid Percent	Cumulative Percent
	is not at all influential	13	4.9	5.2	5.2
	2	28	10.6	11.3	16.5
Valid	3	76	28.9	30.6	47.2
vand	4	89	33.8	35.9	83.1
	is very influential	42	16.0	16.9	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 65. Motivation to research: Institutional demands

Table 66. Motivation to research: Desire to progress the field

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	is not at all influential	3	1.1	1.2	1.2
	2	5	1.9	2.0	3.2
Valid	3	32	12.2	12.9	16.1
vallu	4	79	30.0	31.7	47.8
	is very influential	130	49.4	52.2	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 67. Motivation to research: Job security

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	is not at all influential	23	8.7	9.3	9.3
	2	24	9.1	9.8	19.1
Valid	3	65	24.7	26.4	45.5
Valid	4	88	33.5	35.8	81.3
	is very influential	46	17.5	18.7	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	is not at all influential	13	4.9	5.2	5.2
	2	32	12.2	12.9	18.1
Valid	3	62	23.6	24.9	43.0
vand	4	89	33.8	35.7	78.7
	is very influential	53	20.2	21.3	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 68. Motivation to research: Recognition by my institution

Table 69. Motivation to research: Industry needs

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	is not at all influential	69	26.2	27.8	27.8
	2	35	13.3	14.1	41.9
Valid	3	66	25.1	26.6	68.5
Valid	4	59	22.4	23.8	92.3
	is very influential	19	7.2	7.7	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 70. Motivation to research: Sense of competition within my field

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	is not at all influential	34	12.9	13.6	13.6
	2	30	11.4	12.0	25.6
X 7 1' 1	3	76	28.9	30.4	56.0
Valid	4	65	24.7	26.0	82.0
	is very influential	45	17.1	18.0	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	is not at all influential	1	.4	.4	.4
	2	7	2.7	2.8	3.2
Valid	3	26	9.9	10.4	13.6
Valid	4	79	30.0	31.6	45.2
	is very influential	137	52.1	54.8	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

Table 71. Motivation to research: Desire to learn more

Table 72. Motivation to research: Desire to improve the quality of my teaching

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	is not at all influential	9	3.4	3.6	3.6
	2	16	6.1	6.4	10.0
Valid	3	46	17.5	18.5	28.5
vand	4	77	29.3	30.9	59.4
	is very influential	101	38.4	40.6	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 73. Motivation to research: Opportunity to collaborate with colleagues

		Frequency	Percent	Valid	Cumulative
				Percent	Percent
	is not at all influential	11	4.2	4.4	4.4
	2	10	3.8	4.0	8.4
Valid	3	46	17.5	18.5	26.9
vand	4	94	35.7	37.8	64.7
	is very influential	88	33.5	35.3	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	is not at all influential	15	5.7	6.0	6.0
	2	23	8.7	9.2	15.2
Valid	3	46	17.5	18.4	33.6
vand	4	68	25.9	27.2	60.8
	is very influential	98	37.3	39.2	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

Table 74. Motivation to research: Mobility: Opportunity to travel

		Frequency	Percent	Valid	Cumulative
				Percent	Percent
	is not at all influential	12	4.6	4.8	4.8
	2	9	3.4	3.6	8.4
Valid	3	40	15.2	16.1	24.5
vanu	4	81	30.8	32.5	57.0
	is very influential	107	40.7	43.0	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 76. Motivation to research summary: Descriptive Statistics

	Ν	Minimum	Maximum	Mean	Std. Deviation
Intrinsic motivation	250	2.00	5.00	4.7040	.62123
Institutional demands	248	1.00	5.00	3.4798	1.06452
Desire to progress the	249	1.00	5.00	4.3173	.86121
field					
Job security	246	1.00	5.00	3.4472	1.17597
Recognition by my	249	1.00	5.00	3.5502	1.11735
institution					
Industry needs	248	1.00	5.00	2.6935	1.30820
Sense of competition	250	1.00	5.00	3.2280	1.26428
within my field					

Desire to learn more	250	1.00	5.00	4.3760	.81318
Desire to improve the	249	1.00	5.00	3.9839	1.08497
quality of my teaching					
The opportunity to	249	1.00	5.00	3.9558	1.04826
collaborate with					
colleagues					
Mobility – the	250	1.00	5.00	3.8440	1.21059
opportunity to travel					
and working					
internationally					
Connectedness - the	249	1.00	5.00	4.0522	1.08197
desire to be part of					
professional/research					
community					
Valid N (listwise)	240				

As regards types of collaborations, answers of participants are presented in Tables 77 to 82. Top 3 collaborators, checked by the sample include: Other academics (88.6%), international collaborators (68%) and doctoral candidates (64%)

Tuble 777 Research Control of the actuation start								
		Frequency	Percent	Valid Percent	Cumulative			
					Percent			
Valid	Other academic staff	233	88.6	100.0	100.0			
Missing	5	30	11.4					
Total		263	100.0					

Table 77. Research Collaboration: Other academic staff

Table 78. Research Collaboration: Doctoral candidates

	Frequency	Percent	Valid	Cumulative
			Percent	Percent
Valid Doctoral candidates	169	64.3	100.0	100.0
Missing	94	35.7		
Total	263	100.0		

	Frequency	Percent	Valid	Cumulative
			Percent	Percent
Valid Masters students	118	44.9	100.0	100.0
Missing	145	55.1		
Total	263	100.0		

Table 79. Research Collaboration: Masters students

Table 80. Research Collaboration: Postdoctoral/early career investigators

		Frequency	Percent	Valid	Cumulative
				Percent	Percent
Valid	Postdoctoral colleagues and other early career investigators	139	52.9	100.0	100.0
Missing		124	47.1		
Total		263	100.0		

Table 81. Research Collaboration: International collaborators

		Frequency	Percent	Valid	Cumulative
				Percent	Percent
Valid	International collaborators	179	68.1	100.0	100.0
Missing		84	31.9		
Total		263	100.0		

Valid Cumulative Frequency Percent Percent Percent Valid National collaborators 145 55.1 100.0 100.0 Missing 118 44.9 263 Total 100.0

Table 82. Research Collaboration: National collaborators

2.8. Research support

In terms of research support, specific results for each type of support are presented in Tables 83-90. A classification of top three supports includes: 1. Grant funding (reported by 66.5% of the sample) 2. Presenting results at international events (reported by 65% of the sample) 3. The opportunity to collaborate with others (reported by 58% of the sample). The type of support which could be classified as last was "Workshops/professional development on researching"-checked by only 33% of the sample.

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Grant funding	175	66.5	100.0	100.0
Missing	88	33.5		
Total	263	100.0		

Table 83. Research support: Grant funding

Table 84. Research support: Release time to conduct research

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Release time to conduct research	116	44.1	100.0	100.0
Missing		147	55.9		
Total		263	100.0		

Table 85. Research support: Flexibility to adjust commitments to research, teaching, and service

		Frequency	Percent	Valid	Cumulative Percent		
				Percent			
Valid	Flexibility to adjust commitments to research, teaching, and service	120	45.6	100.0	100.0		
Missing	7	143	54.4				
Total		263	100.0				

Table 86. Research support: Opportunities to collaborate with others

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
Valid	Opportunities to collaborate with others (industry, academic or other the rend users)	152	57.8	100.0	100.0
Missing		111	42.2		
Total		263	100.0		

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
Valid	Workshops/professional development on researching	86	32.7	100.0	100.0
Missing	-	177	67.3		
Total		263	100.0		

 Table 87. Research support: Workshops/professional development on researching

Table 88. Research support: International professional development opportunities

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
Valid	International professional development opportunities	109	41.4	100.0	100.0
Missing		154	58.6		
Total		263	100.0		

Table 89. Research support: Presenting research results at international events

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
Valid	Presenting research results at international events	170	64.6	100.0	100.0
Missing		93	35.4		
Total		263	100.0		

Table 90. Research support: Attending research-oriented events

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
Valid	Attending research- oriented events	149	56.7	100.0	100.0
Missing		114	43.3		
Total		263	100.0		

2.9. Teaching Experiences: Training, Qualifications

Tables 91-94, show answer distributions for various teaching experiences. As can be noted, 61% of the sample reported receiving no initial teacher training (training before entering class for the first time), 67% reported no support on teaching during first year at the institution, and 40% reported lack of ongoing institutional support for teaching. Only 55% of the sample have a formal teaching qualification at the moment.

		Frequency	Percent	Valid Percent	Cumulative Percent		
	Yes	68	25.9	27.1	27.1		
Valid	No	154	58.6	61.4	88.4		
Valid	Somewhat	29	11.0	11.6	100.0		
	Total	251	95.4	100.0			
Missing	System	12	4.6				
Total		263	100.0				

Table 91. Initial teacher training

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	138	52.5	54.8	54.8
X 7 - 1' -1	No	79	30.0	31.3	86.1
Valid	Somewhat	35	13.3	13.9	100.0
	Total	252	95.8	100.0	
Missing	System	11	4.2		
Total		263	100.0		

Table 93. Institutional support during first year

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	49	18.6	19.6	19.6
X7-1: 1	No	167	63.5	66.8	86.4
Valid	Somewhat	34	12.9	13.6	100.0
	Total	250	95.1	100.0	
Missing	System	13	4.9		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	79	30.0	31.7	31.7
Valid	No	99	37.6	39.8	71.5
Valid	Somewhat	71	27.0	28.5	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

Table 94. Ongoing institutional support for teaching

2.10. Factors important for teaching development

Tables 95-107 show answers of participants as regards factors relevant to teaching development. The top 3 factors checked by the greater majority of the sample include:

1. Feedback from students (Mean= 4.3; Reported 4 or 5 by 83% of the sample)

2. Student performance/student learning (Mean=3.9; Reported 4 or 5 by 67% of the sample);

3. Sharing pedagogic practice through informal professional conversations (Mean=3.8, Reported 4 or 5 by 67% of the sample).

Correlation analyses between self-perceptions as a successful teacher and the factors indicated: a. The strongest significant correlation between self-perception as a successful teacher and feedback/ teaching evaluation from students (r=.23, p<.01).

b. Weak but still significant correlations between self-perception as a successful teacher and

- Engaging with the scholarship of teaching & learning/literature r=.17, p<.01

- Researching your teaching r=.16, p<.05

-International teaching opportunities r=.13, p<.05

Giving feedback/monitoring colleagues r=.12, p<.05

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	1	.4	.4	.4
	2	3	1.1	1.2	1.6
Valid	3	38	14.4	15.1	16.7
vand	4	91	34.6	36.3	53.0
	most important	118	44.9	47.0	100.0
	Total	251	95.4	100.0	
Missing	System	12	4.6		
Total		263	100.0		

Table 95. Importance for teaching development: Feedback from your students

 Table 96. Importance for teaching development: Feedback from colleagues

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	11	4.2	4.4	4.4
	2	29	11.0	11.7	16.1
Walid	3	50	19.0	20.2	36.3
Valid	4	86	32.7	34.7	71.0
	most important	72	27.4	29.0	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 97. Importance for tea	ching development:	Feedback colleagues
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		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	28	10.6	11.4	11.4
	2	26	9.9	10.6	22.0
Valid	3	67	25.5	27.2	49.2
Valid	4	73	27.8	29.7	78.9
	most important	52	19.8	21.1	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	16	6.1	6.4	6.4
	2	12	4.6	4.8	11.2
Valid	3	53	20.2	21.3	32.5
Valid	4	86	32.7	34.5	67.1
	most important	82	31.2	32.9	100.0
	Total	249	94.7	100.0	
Missing	System	14	5.3		
Total		263	100.0		

 Table 98. Importance for teaching development: Sharing pedagogic practice

 through informal professional conversations

Table 99. Importance for teaching development: Attending teaching and learning
workshops and seminars

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	34	12.9	13.8	13.8
	2	28	10.6	11.4	25.2
Valid	3	54	20.5	22.0	47.2
v and	4	60	22.8	24.4	71.5
	most important	70	26.6	28.5	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

Table 100. Importance for teaching development: Contributing to teaching and
learning workshops and seminars

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	38	14.4	15.5	15.5
	2	23	8.7	9.4	24.9
X 7 - 1: -1	3	57	21.7	23.3	48.2
Valid	4	68	25.9	27.8	75.9
	most important	59	22.4	24.1	100.0
	Total	245	93.2	100.0	
Missing	System	18	6.8		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	50	19.0	20.2	20.2
	2	34	12.9	13.8	34.0
Valid	3	64	24.3	25.9	59.9
Valid	4	53	20.2	21.5	81.4
	most important	46	17.5	18.6	100.0
	Total	247	93.9	100.0	
Missing	g System	16	6.1		
Total		263	100.0		

Table 101. Importance for teaching development: Awards and recognition

Table 102. Importance for teaching development: Team-teaching opportunities

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	29	11.0	11.9	11.9
	2	27	10.3	11.1	23.0
Valid	3	54	20.5	22.1	45.1
Valid	4	73	27.8	29.9	75.0
	most important	61	23.2	25.0	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

 Table 103. Importance for teaching development: International teaching

 opportunities

opportunities							
		Frequency	Percent	Valid Percent	Cumulative Percent		
	least important	33	12.5	13.5	13.5		
	2	17	6.5	7.0	20.5		
Valid	3	47	17.9	19.3	39.8		
Valid	4	57	21.7	23.4	63.1		
	most important	90	34.2	36.9	100.0		
	Total	244	92.8	100.0			
Missing	g System	19	7.2				
Total		263	100.0				

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	32	12.2	13.1	13.1
	2	22	8.4	9.0	22.1
Valid	3	52	19.8	21.3	43.4
vand	4	65	24.7	26.6	70.1
	most important	73	27.8	29.9	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

Table 104. Importance for teaching development: Researching your teaching

Table 105. Importance for teaching development: Engaging with the scholarship ofteaching and learning

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	28	10.6	11.4	11.4
	2	22	8.4	8.9	20.3
Valid	3	58	22.1	23.6	43.9
Valid	4	67	25.5	27.2	71.1
	most important	71	27.0	28.9	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

 Table 106. Importance for teaching development: Student performance

		Frequency	Percent	Valid Percent	Cumulative Percent
	least important	12	4.6	4.9	4.9
	2	15	5.7	6.1	11.0
V - 1: 1	3	54	20.5	22.0	32.9
Valid	4	64	24.3	26.0	58.9
	most important	101	38.4	41.1	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

	Statistics								
	Ν	Minimum	Maximum	Mean	Std. Deviation				
Feedback from	251	1.00	5.00	4.2829	.79225				
students									
Feedback (teaching	248	1.00	5.00	3.7218	1.13431				
evaluation/review)									
from colleagues									
Giving feedback on	246	1.00	5.00	3.3862	1.24918				
teaching to and/or									
mentoring other									
colleagues									
Sharing pedagogic	249	1.00	5.00	3.8273	1.13517				
practice through									
informal professional									
conversations									
Attending teaching and	246	1.00	5.00	3.4228	1.37029				
learning workshops									
Contributing to	245	1.00	5.00	3.3551	1.35518				
teaching and learning									
workshops									
Awards and	247	1.00	5.00	3.0445	1.38298				
recognition									
Team-teaching (co-	244	1.00	5.00	3.4508	1.29959				
teaching) opportunities									
International teaching	244	1.00	5.00	3.6311	1.38897				
opportunities									
Researching your	244	1.00	5.00	3.5123	1.35015				
teaching									
Engaging with the	246	1.00	5.00	3.5325	1.30187				
scholarship of teaching									
and learning									
Student performance –	246	1.00	5.00	3.9228	1.14559				
student learning									
Valid N (listwise)	238								

 Table 107. Importance for teaching development: Summary of Descriptive

 Statistics

2.11. Impressions of Teaching

Tables 108-113 present participant answers on Teaching impressions. 'Building rapport with my students is an important part of my teaching' and 'My research informs my teaching' were the two items rated the highest by the largest majority of the sample. (They were rated as 4 or 5 by 75% of the sample, Mean=3.8). Second was rated: 'Improving teaching and learning practices motivates my pursuit of research' (66% of the sample; Mean=3.6). 'I identify myself as a successful teacher' correlates significantly with: a. Building rapport with my students is an important part of my teaching (r=.25, p<.01) b. Improving teaching and learning practices motivates my pursuit of research (r=.16, p<.01).

		Frequency	Percent	Valid Percent	Cumulative Percent
	not applicable	65	24.7	24.8	24.8
	strongly	5	1.9	1.9	26.7
	disagree				
V - 1: 1	disagree	14	5.3	5.3	32.1
Valid	uncertain	43	16.3	16.4	48.5
	agree	66	25.1	25.2	73.7
	strongly agree	69	26.2	26.3	100.0
	Total	262	99.6	100.0	
Missing	System	1	.4		
Total		263	100.0		

 Table 108. Teaching impressions: I have become a better university teacher by teaching in different institutions in my home country

Table 109. Teaching impressions: I have become a better university teacher by
teaching in international contexts

		Frequency	Percent	Valid Percent	Cumulative Percent
	not applicable	67	25.5	25.6	25.6
	strongly	2	.8	.8	26.3
	disagree				
X 7 1° 1	disagree	7	2.7	2.7	29.0
Valid	uncertain	31	11.8	11.8	40.8
	agree	65	24.7	24.8	65.6
	strongly agree	90	34.2	34.4	100.0
	Total	262	99.6	100.0	
Missing	System	1	.4		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not applicable	21	8.0	8.0	8.0
	strongly	5	1.9	1.9	9.9
	disagree				
X7-1: 1	disagree	9	3.4	3.4	13.4
Valid	uncertain	30	11.4	11.5	24.8
	agree	92	35.0	35.1	59.9
	strongly agree	105	39.9	40.1	100.0
	Total	262	99.6	100.0	
Missing	System	1	.4		
Total		263	100.0		

Table 110. Teaching impressions: My research informs my teaching practices

 Table 111. Teaching impressions: Improving teaching and learning practices motivates my pursuit of research

		motivates my	P == = = = = =		
		Frequency	Percent	Valid Percent	Cumulative Percent
	not applicable	20	7.6	7.6	7.6
	strongly	5	1.9	1.9	9.5
	disagree				
	disagree	16	6.1	6.1	15.6
Valid	uncertain	48	18.3	18.3	34.0
	agree	92	35.0	35.1	69.1
	strongly agree	81	30.8	30.9	100.0
	Total	262	99.6	100.0	
Missing	System	1	.4		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not applicable	24	9.1	9.2	9.2
	strongly	3	1.1	1.1	10.3
	disagree				
X7-1: 1	disagree	5	1.9	1.9	12.2
Valid	uncertain	33	12.5	12.6	24.8
	agree	95	36.1	36.3	61.1
	strongly agree	102	38.8	38.9	100.0
	Total	262	99.6	100.0	
Missing	System	1	.4		
Total		263	100.0		

 Table 112. Teaching impressions: Building rapport with my students is an important part of my teaching

Table 113.	Teaching	Impressions	Summary:	Descrip	otive Statistics
I unic II.	reaching	impi cootono	Summary.	Deserre	

	Ν	Minimum	Maximum	Mean	Std. Deviation
I have become a better	262	.00	5.00	2.9427	1.91799
university teacher by					
teaching in different					
institutions in my					
home country					
I have become a better	262	.00	5.00	3.1260	1.99505
university teacher by					
teaching in					
international contexts					
My research informs	262	.00	5.00	3.8397	1.44539
my teaching practices.					
Improving teaching	262	.00	5.00	3.6412	1.41729
and learning practices					
motivates my pursuit					
of research.					
Building rapport with	262	.00	5.00	3.8244	1.46207
my students is an					
important part of my					
teaching.					
Valid N (listwise)	262				

2.12. Learning Opportunities

Tables 114-130, show participants' answers as regards learning opportunities they consider most helpful. Top 5 items rated as most helpful by the majority of participants (rated as 4 or 5) include:

- 1. Support on engaging in EU/international projects (74%)
- 2. Conference attendance (73%)
- 3. Disciplinary related research support (72%)
- 4. Support on building collaborations and networks (67%)
- 5. Cross disciplinary research support (64%)

Self-identification as a successful learner revealed weak but significant correlations with 4 of the above supports including:

- 1. Conference attendance (r=.22, p<.01)
- 2. Cross-disciplinary research support (r=.17, p<.01)
- 3. Support on building collaboration and networks (r=.15, p<.05)
- 4. Support in engaging in international projects (r=.16, p<.01)

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	6	2.3	2.4	2.4
	2	14	5.3	5.6	8.1
Walid	3	48	18.3	19.4	27.4
Valid	4	87	33.1	35.1	62.5
	absolutely helpful	93	35.4	37.5	100.0
	Total	248	94.3	100.0	
Missing	System	15	5.7		
Total		263	100.0		

Table 114. Learning opportunities: Conference/event attendance

Table 115. Learning opportunities: Teaching and learning programmes

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	19	7.2	7.8	7.8
	2	25	9.5	10.2	18.0
Walid	3	60	22.8	24.5	42.4
Valid	4	74	28.1	30.2	72.7
	absolutely helpful	67	25.5	27.3	100.0
	Total	245	93.2	100.0	
Missing	System	18	6.8		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	12	4.6	4.9	4.9
	2	22	8.4	8.9	13.8
Walid	3	56	21.3	22.8	36.6
Valid	4	71	27.0	28.9	65.4
	absolutely helpful	85	32.3	34.6	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

Table 116. Learning opportunities: Teaching and learning workshops

Table 117. Learning opportunities: Disciplinary related research support

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	9	3.4	3.7	3.7
	2	9	3.4	3.7	7.3
Walid	3	50	19.0	20.4	27.8
Valid	4	85	32.3	34.7	62.4
	absolutely helpful	92	35.0	37.6	100.0
	Total	245	93.2	100.0	
Missing	System	18	6.8		
Total		263	100.0		

Table 118. Learning opportunities	: Cross disciplinary research support
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		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	10	3.8	4.1	4.1
	2	13	4.9	5.3	9.4
N7-1: 1	3	63	24.0	25.8	35.2
Valid	4	71	27.0	29.1	64.3
	absolutely helpful	87	33.1	35.7	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

	networks								
		Frequency	Percent	Valid Percent	Cumulative Percent				
	not at all helpful	6	2.3	2.4	2.4				
	2	17	6.5	6.9	9.3				
Valid	3	57	21.7	23.2	32.5				
Valid	4	66	25.1	26.8	59.3				
	absolutely helpful	100	38.0	40.7	100.0				
	Total	246	93.5	100.0					
Missing	System	17	6.5						
Total		263	100.0						

Table 119. Learning opportunities: Support on building collaborations and networks

Table 120. Learning opportunities: Support on engaging in EU/international projects

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	7	2.7	2.8	2.8
	2	9	3.4	3.7	6.5
X7-1: 1	3	49	18.6	19.9	26.4
Valid	4	60	22.8	24.4	50.8
	absolutely helpful	121	46.0	49.2	100.0
	Total	246	93.5	100.0	
Missing	System	17	6.5		
Total		263	100.0		

Table 121. Learning opportunities: People management

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	18	6.8	7.4	7.4
	2	30	11.4	12.3	19.8
X 7 - 1: 4	3	66	25.1	27.2	46.9
Valid	4	73	27.8	30.0	77.0
	absolutely helpful	56	21.3	23.0	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	17	6.5	7.0	7.0
	2	23	8.7	9.5	16.5
Valid	3	56	21.3	23.1	39.7
Valid	4	75	28.5	31.0	70.7
	absolutely helpful	71	27.0	29.3	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

 Table 122. Learning opportunities: Project management

 Table 123. Learning opportunities: Financial training

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	32	12.2	13.2	13.2
	2	37	14.1	15.2	28.4
Valid	3	73	27.8	30.0	58.4
Valid	4	57	21.7	23.5	81.9
	absolutely helpful	44	16.7	18.1	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

 Table 124. Learning opportunities: ICT (technology) training

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	27	10.3	11.3	11.3
	2	19	7.2	7.9	19.2
V - 1: 1	3	73	27.8	30.5	49.8
Valid	4	59	22.4	24.7	74.5
	absolutely helpful	61	23.2	25.5	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	26	9.9	10.8	10.8
	2	28	10.6	11.6	22.4
Walid	3	70	26.6	29.0	51.5
Valid	4	62	23.6	25.7	77.2
	absolutely helpful	55	20.9	22.8	100.0
	Total	241	91.6	100.0	
Missing	System	22	8.4		
Total		263	100.0		

Table 125. Learning opportunities: Leadership training

 Table 126. Learning opportunities: Work life balance support/training

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	27	10.3	11.3	11.3
	2	27	10.3	11.3	22.5
Valid	3	71	27.0	29.6	52.1
Valid	4	46	17.5	19.2	71.3
	absolutely helpful	69	26.2	28.8	100.0
	Total	240	91.3	100.0	
Missing	System	23	8.7		
Total		263	100.0		

 Table 127. Learning opportunities: Time management

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	25	9.5	10.4	10.4
	2	33	12.5	13.8	24.2
V - 1: 1	3	52	19.8	21.7	45.8
Valid	4	62	23.6	25.8	71.7
	absolutely helpful	68	25.9	28.3	100.0
	Total	240	91.3	100.0	
Missing	System	23	8.7		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	38	14.4	15.6	15.6
	2	30	11.4	12.3	27.9
Valid	3	62	23.6	25.4	53.3
Valid	4	64	24.3	26.2	79.5
	absolutely helpful	50	19.0	20.5	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

Table 128. Learning opportunities: Career planning

Table 129. Learning opportunities: Negotiating institutional systems and processes

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	33	12.5	13.6	13.6
	2	25	9.5	10.3	23.9
Valid	3	80	30.4	32.9	56.8
vand	4	56	21.3	23.0	79.8
	absolutely helpful	49	18.6	20.2	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

Table 129. Learning opportunities: Recruiting staff

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	33	12.5	13.6	13.6
	2	28	10.6	11.5	25.1
Valid	3	78	29.7	32.1	57.2
Valid	4	62	23.6	25.5	82.7
	absolutely helpful	42	16.0	17.3	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all helpful	19	7.2	7.9	7.9
	2	28	10.6	11.6	19.4
Valid	3	71	27.0	29.3	48.8
vand	4	73	27.8	30.2	78.9
	absolutely helpful	51	19.4	21.1	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

Table 130. Learning opportunities: Managing teams

2.13. Factors relevant to continuous professional development (CPD)

Tables 131-138 show participants answers on factors relevant to CPD. The top 3 factors rated as most important (4-5) by the majority of the sample include:

1. Personal interest in further professional learning (reported 4 or 5 by 86% of the sample)

- 2. Time (reported 4 or 5 by 77% of the sample)
- 3. Funding from my institution/university for CPD (reported 4 or 5 by 65% of the sample).

Self- identification as a successful learner significantly correlates with a. Personal interest in further professional development (r=.25, p<.01) b. Funding from my institution (r=.17, p<.01).

The factor identified as least relevant was 'Institutional requirement for CPD for staff' (only 46% of the sample rated it as 4-5).

 Table 131. Importance for CPD: The availability of CPD opportunities in my institution/university

	institution/university						
		Frequency	Percent	Valid Percent	Cumulative Percent		
	not at all important	25	9.5	10.3	10.3		
	2	22	8.4	9.1	19.3		
Valid	3	52	19.8	21.4	40.7		
Valid	4	70	26.6	28.8	69.5		
	very important	74	28.1	30.5	100.0		
	Total	243	92.4	100.0			
Missing	System	20	7.6				
Total		263	100.0				

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all important	27	10.3	11.2	11.2
	2	20	7.6	8.3	19.5
X7-1: 1	3	38	14.4	15.8	35.3
Valid	4	70	26.6	29.0	64.3
	very important	86	32.7	35.7	100.0
	Total	241	91.6	100.0	
Missing	g System	22	8.4		
Total		263	100.0		

Table 132. Importance for CPD: Funding from my institution/university for CPD

 Table 133. Importance for CPD: Time

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all important	5	1.9	2.1	2.1
	2	10	3.8	4.2	6.3
Walid	3	39	14.8	16.3	22.6
Valid	4	60	22.8	25.1	47.7
	very important	125	47.5	52.3	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

Table 134. Importance for CPD: Personal interest in further professional learning

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all important	3	1.1	1.3	1.3
	2	5	1.9	2.1	3.3
X 7 1° 1	3	25	9.5	10.5	13.8
Valid	4	62	23.6	25.9	39.7
	very important	144	54.8	60.3	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

learning							
		Frequency	Percent	Valid Percent	Cumulative Percent		
	not at all important	16	6.1	6.7	6.7		
	2	18	6.8	7.5	14.2		
Valid	3	59	22.4	24.6	38.8		
Valid	4	93	35.4	38.8	77.5		
	very important	54	20.5	22.5	100.0		
	Total	240	91.3	100.0			
Missing	System	23	8.7				
Total		263	100.0				

 Table 135. Importance for CPD: Institutional recognition of further professional

 learning

 Table 136. Importance for CPD: A clear framework for continuing professional development

development							
		Frequency	Percent	Valid Percent	Cumulative Percent		
	not at all important	19	7.2	8.0	8.0		
	2	24	9.1	10.1	18.1		
Valid	3	49	18.6	20.6	38.7		
Valid	4	79	30.0	33.2	71.8		
	very important	67	25.5	28.2	100.0		
	Total	238	90.5	100.0			
Missing	System	25	9.5				
Total		263	100.0				

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all important	25	9.5	10.5	10.5
	2	33	12.5	13.8	24.3
Valid	3	47	17.9	19.7	43.9
Valid	4	71	27.0	29.7	73.6
	very important	63	24.0	26.4	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	not at all important	28	10.6	11.7	11.7
	2	34	12.9	14.2	25.9
	3	66	25.1	27.6	53.6
Valid	4	66	25.1	27.6	81.2
	very important	45	17.1	18.8	100.0
	Total	239	90.9	100.0	
Missing	System	24	9.1		
Total		263	100.0		

Table 138. Importance for CPD: Institutional requirement for CPD for staff

2.14. Personal traits

Tables 139-150 show participants' answers on personal traits. The top 5 traits rated as most influential by the majority of participants included: a. Curiosity (rated as 4-5 by 93% of the sample), b. Ability to Problem Solve (rated as 4-5 by 90%), c. Optimism/ Openness to new experiences/Freedom (rated all three as 4-5 by 89% of the sample) d. Determination (rated as 4-5 by 87%), e. Openness to collaboration (83%).

Correlations between self perceptions of being a successful writer and Personal traits revealed significant correlations with: Imagination (r=.24, p<.01); Curiosity (r=.15, p<.05), Kindness (r=.18, p<.01), willingness to take risks (r=.14, p<.05), Openness to collaboration (r=.13, p<.05), Willingness to travel for work (r=.15, p<.05)

Correlations between self perceptions of being a successful researcher and Personal traits revealed significant correlations with: Kindness (r=.14, p<.05), Willingness to take risks (r=.14, p<.05), Imagination (r=.21, p<.01), Openness to new experiences (r=.13, p<.05), Willingness to travel for work (r=.15, p<.05), Willingness to live overseas (r=.13, p<.05).

Correlations between self-perceptions of being a successful teacher and Personal traits revealed significant correlations with: Imagination (r=.14, p<.05), Ability to problem solve (r=.18, p<.01), Openness to collaboration (r=.15, p<.01), Willingness to travel for work (r=.21, p<.01),

Correlations between self perceptions of being a successful learner and Personal traits revealed significant correlations with: Sound values (r=.32, p<.01); Imagination (r=.29, p<.01);' Strategic thinking (r=.28, p<.01); Kindness and compassion (r=.26, p<.01); Willingness to take risks (r=.25, p<.01); Openness to collaboration (r=.23, p<.01); Willingness to travel for work (r=.23, p<.01); Ability to problem solve (r=.22, p<.01); Openness to new experiences (r=.20, p<.01),

Determination (r=.19, p<.05), Willingness to live and work overseas (r=.15, p<.05), Freedom (r=.14, p<.05).

As might be noted personal factors common to successful teaching and learning include: Imagination, Ability to problem solve, Openness to collaboration Willingness to travel for work. Personal factors common to successful research and writing include: Imagination, Kindness, Willingness to travel for work. Finally, personal factors revealing correlations common to all four areas include: Imagination and Willingness to travel for work.

	Table 137. 1 cisonal traits. Winnighess to take fisks						
		Frequency	Percent	Valid Percent	Cumulative Percent		
	least influential	10	3.8	4.1	4.1		
	2	16	6.1	6.6	10.7		
T 7 1 1 1	3	68	25.9	27.9	38.5		
Valid	4	85	32.3	34.8	73.4		
	most influential	65	24.7	26.6	100.0		
	Total	244	92.8	100.0			
Missing	System	19	7.2				
Total		263	100.0				

Table 139. Personal traits: Willingness to take risks

	Table 140. Personal traits: Strategic thinking and planning						
		Frequency	Percent	Valid Percent	Cumulative Percent		
	least influential	8	3.0	3.3	3.3		
	2	13	4.9	5.3	8.6		
Valid	3	51	19.4	21.0	29.6		
Valid	4	76	28.9	31.3	60.9		
	most influential	95	36.1	39.1	100.0		
	Total	243	92.4	100.0			
Missing	System	20	7.6				
Total		263	100.0				

Table 140. Personal traits: Strategic thinking and planning

	Table 141.1 crisonal traits. Curiosity						
		Frequency	Percent	Valid Percent	Cumulative Percent		
	2	2	.8	.8	.8		
	3	16	6.1	6.6	7.4		
Valid	4	61	23.2	25.2	32.6		
	most influential	163	62.0	67.4	100.0		
	Total	242	92.0	100.0			
Missing	System	21	8.0				
Total		263	100.0				

Table 141. Personal traits: Curiosity

Table 142. Personal traits: Optimism, positive attitude

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	2	.8	.8	.8
	2	3	1.1	1.2	2.1
Walid	3	20	7.6	8.2	10.3
Valid	4	75	28.5	30.9	41.2
	most influential	143	54.4	58.8	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

Table 143. Personal traits: Kindness and compassion

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	б	2.3	2.5	2.5
	2	22	8.4	9.1	11.6
Valid	3	56	21.3	23.1	34.7
Valid	4	79	30.0	32.6	67.4
	most influential	79	30.0	32.6	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent	
	least influential	3	1.1	1.2	1.2	
	2	2	.8	.8	2.1	
Valid	3	23	8.7	9.5	11.6	
Valid	4	73	27.8	30.2	41.7	
	most influential	141	53.6	58.3	100.0	
	Total	242	92.0	100.0		
Missing	System	21	8.0			
Total		263	100.0			

Table 144. Personal traits: Freedom

Table 145. Personal traits: Sound values – respect, equality, fairness, integrity

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	4	1.5	1.6	1.6
	2	9	3.4	3.7	5.3
Walid	3	36	13.7	14.8	20.1
Valid	4	79	30.0	32.4	52.5
	most influential	116	44.1	47.5	100.0
	Total	244	92.8	100.0	
Missing	System	19	7.2		
Total		263	100.0		

Table 146. Personal traits: Imagination

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	2	.8	.8	.8
	2	11	4.2	4.5	5.3
Valid	3	48	18.3	19.8	25.1
Valid	4	84	31.9	34.6	59.7
	most influential	98	37.3	40.3	100.0
	Total	243	92.4	100.0	

Missing System	20	7.6	
Total	263	100.0	

	Tuble 11771 ersonar Harts, Determination persistence					
		Frequency	Percent	Valid Percent	Cumulative Percent	
	2	2	.8	.8	.8	
	3	30	11.4	12.3	13.2	
Valid	4	73	27.8	30.0	43.2	
	most influential	138	52.5	56.8	100.0	
	Total	243	92.4	100.0		
Missing	System	20	7.6			
Total		263	100.0			

Table 147. Personal traits: Determination/persistence

	Table 146. I ersonal traits. Openness to new experiences						
		Frequency	Percent	Valid Percent	Cumulative Percent		
	2	4	1.5	1.6	1.6		
	3	24	9.1	9.9	11.5		
Valid	4	68	25.9	28.0	39.5		
	most influential	147	55.9	60.5	100.0		
	Total	243	92.4	100.0			
Missing	System	20	7.6				
Total		263	100.0				

Table 148. Personal traits: Openness to new experiences

Table 149. Personal traits: Ability to problem solve

		Frequency	Percent	Valid Percent	Cumulative Percent
	2	3	1.1	1.2	1.2
	3	22	8.4	9.1	10.3
Valid	4	86	32.7	35.4	45.7
	most influential	132	50.2	54.3	100.0
	Total	243	92.4	100.0	
Missing	System	20	7.6		
Total		263	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	1	.4	.4	.4
	2	9	3.4	3.7	4.1
Walid	3	30	11.4	12.2	16.3
Valid	4	73	27.8	29.8	46.1
	most influential	132	50.2	53.9	100.0
	Total	245	93.2	100.0	
Missing	System	18	6.8		
Total		263	100.0		

Table 150. Personal traits: Openness to collaboration

Table 151. Personal traits: Willingness to travel for work

		Frequency	Percent	Valid Percent	Cumulative Percent
	least influential	14	5.3	5.8	5.8
	2	20	7.6	8.3	14.0
X 7 - 1: -1	3	40	15.2	16.5	30.6
Valid	4	71	27.0	29.3	59.9
	most influential	97	36.9	40.1	100.0
	Total	242	92.0	100.0	
Missing	System	21	8.0		
Total		263	100.0		

Table 152. Personal traits: Willingness to live and work overseas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	least influential	37	14.1	15.4	15.4
	2	34	12.9	14.2	29.6
	3	46	17.5	19.2	48.8
	4	57	21.7	23.8	72.5
	most influential	66	25.1	27.5	100.0
	Total	240	91.3	100.0	
Missing	System	23	8.7		
Total		263	100.0		

	Ν	Minimum	Maximum	Mean	Std. Deviation
Curiosity	242	2.00	5.00	4.5909	.65216
Optimism, positive	243	1.00	5.00	4.4568	.76681
attitude					
Kindness and	242	1.00	5.00	3.8388	1.05986
compassion					
Freedom	242	1.00	5.00	4.4339	.79793
Sound values - respect,	244	1.00	5.00	4.2049	.93789
equality, fairness,					
integrity					
Willingness to take	244	1.00	5.00	3.7336	1.05348
risks					
Strategic thinking and	243	1.00	5.00	3.9753	1.05598
planning					
Imagination	243	1.00	5.00	4.0905	.92264
Determination/persiste	243	2.00	5.00	4.4280	.73712
nce					- 10 1 1
Openness to new	243	2.00	5.00	4.4733	.74016
experiences		• • • •			
Ability to problem	243	2.00	5.00	4.4280	.70854
solve	245	1.00	5.00	4 2200	05040
Openness to	245	1.00	5.00	4.3306	.85942
collaboration	242	1.00	5.00	3.8967	1.18849
Willingness to travel for work	242	1.00	5.00	5.8907	1.10049
Willingness to live and	240	1.00	5.00	3.3375	1.41075
work overseas	240	1.00	5.00	5.5575	1.41073
Valid N (listwise)	229				
	<i>LL</i> 9				

Table 150. Personal Traits Summary: Descriptive Statistics

3. Summary and Conclusions

The above results could be summarized according to the four research questions:

- RQ1. What is common across the data what are the common and most predominant characteristics and behaviours of stellar colleagues?
- RQ2: What is the support they find most useful?
- RQ3: What are the overlaps between supports?

• RQ4: What model of centralised support would be best for stellar colleagues.

Results related to RQ1:" What is common across the data - what are the common and most predominant characteristics and behaviors of stellar colleagues?" might be summarized as follows:

- a. Self-perceptions as a successful teacher, writer, learner and researcher are all related to each other, BUT the strongest correlations were revealed between **the roles of writer and researcher** (Pearson's r = .67, p < .01), **teacher and learner** (Pearson's r = .46, p < .01).
- b. Motivation to writing included: Passion for the discipline (74%), Desire to share your work (64%), The wish to advance my career (62%). Self-identification as a successful writer most strongly relates to "The wish to be recognized in the field (r= .20, p <.01). Strongest barriers to writing included: Other workload, (55%) and Lack of time (53%). Self-identification as a successful writer reveals the strongest negative relationship with 'Lack of confidence about my writing" (r=-.36, p<.01) and 'Dislike of writing' (r=-.32, p<.01).</p>
- c. Motivation to research included: Intrinsic motivation (94%), Desire to learn more (86%), Desire to progress the field (84%). Self-identification as a successful researcher was most strongly correlated to "Desire to progress the field" (Pearson r= .34, p<.01).
- d. Sixty-one percent of the sample reported received no training before delivering first class and 67% received no institutional support for teaching during the first year.
- e. Regarding learning: "Personal interest in further professional development" was identified as the most relevant to success (86%)
- f. The most influential personal traits related to success included: Curiosity (93%), Ability to Problem Solve (90%), Optimism/Openness to new experiences/Freedom (89%). Only two traits correlated to self-perceptions of success **across all 4 Areas:** 'Imagination' and 'Willingness to travel for work'

Results related to types of support and overlaps between supports (RQ2: What is the support they find most useful? RQ3: What are the overlaps between supports?) might be summarized as follows:

- a. Report on existing support revealed it is poorest for Writing (23%), 32% for Teaching & learning and 35% for professional development, and 38% for research. Institutions providing one type of support (e.g., Writing support) were more likely to provide other types of support too.
- b. The 3 most useful supports for writing were: Access to relevant literature (78%), Structured Feedback (68%), Dedicated long blocks/Mentoring/Editor corrections/services (60%).
- c. The 3 most useful supports for research were: Grant funding (66.5%); Presenting results at international events (65%); Opportunity to collaborate with others (58%);
- d. The 3 most relevant supports for teaching were: Feedback from students (83%), Student performance/learning (76%); Sharing pedagogic practice through informal professional conversations (67%)
- e. The 3 most relevant supports for learning were: Conference attendance (73%); Support in engaging in international projects (74%); Disciplinary related research support (72%)

f. 'Collaboration with others' seems to be a common factor cutting across all four areas a. Writing: *Structured feedback/Editors*; b. Research: *Opportunity to collaborate with others*; 3. Teaching: *Sharing pedagogical practice through informal professional conversations*; 4. Learning: *Disciplinary related research support (72%)*

Regarding RQ4, 'What model of centralized support would be best for stellar colleagues?' results suggest that models of centralized support across the 4 areas might consider:

1. Dyads that relate more closely, such as teaching-learning or research-writing might be used as a basis to construct models of centralized support

2. Enhancement of collaboration opportunities (local and international) across all four areas teaching, learning, research and writing (professional development through collaboration)

3. Traveling support for research purposes, teaching/writing skills development

4. The stimulation of personal characteristics (Imagination), through specific CPD activities

5. Addressing barriers, such as 'other workload', also by means of institutional policy recommendations