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Appendices

APPENDIX A: QUESTIONNAIRE

Dear Sir/Madam,

I am a post graduate candidate of Department of Civil Engineering, University of Moratuwa, conducting a research under the supervision of Prof. N. D. Guanawardana University of Moratuwa, as partial fulfillment of the requirement for the Degree of Master of Science in Construction Project Management.

The research title:

The effectiveness of social capital as an enabler of knowledge creation in construction organisations

Aim of the research:

To investigate whether social capital act as an effective enabler in knowledge creation in construction organisations and help construction organisations to make more informed decision on investment in social capital to improve innovative potential and competitive advantage f Moratuwa, Sri Lanka.

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I hereby guarantee the responses of the questionnaires will be used only for aforementioned purpose and will not be exposed to any third party. The research publication will not contain any personal details of the respondents. You are requested to sincerely respond to all the questions in the questionnaire.

Thank you.

Yours truly,

B.H.C. Jeevanthi

Social capital – Definition

Social capital is the sum of potential resources embedded within, available through, and derived from the network of relationships maintained by an individual or social unit (organisation). Thus, social capital comprises both the network and the resources that may be mobilised through that network (Nahapiet and Ghoshal, 1998, p.243).

Instructions

- Purpose of this survey is to collect information on the ability of personal networks and resources that may be mobilised through those networks to create knowledge in your organisation.
 This questionnaire should be filled with persons from the managerial staff related
- 2. This questionnaire should be filled with persons from the managerial staff related to the field of construction in the organisation (e.g. Project Directors, Director Operations, Project Coordinators, Project Managers, Design Managers, Senior Engineers, Senior Quantity Surveyors, etc.).
- 3. This questionnaire survey consists of Part A, Part B and Part C and you are requested to fill all three parts.
- 4. The collected information will remain confidential.

Part A: Company background information				
University of	Moratuwa, Sri Lanka.			
Jame of the organisation: Www.lib.mrt.ac.lk				
Years in the field of construction:				
Years in the capacity of M1 grade:				
N. C. I. I. N. 101 O. I.				
Main fields in M1/C1 Grade:	Buildings			
	Roads			
	Bridges			
	Water supply & drainage			
	Irrigation			
	Dredging and reclamation			

Specialisation fields (i	if any):		
Nr of direct employee	s:		
Annual turn over (Rs.	Million):		
,			
Part B: Information	about the respor	ndent	
Name of the responde	nt (optional):		
Designation/ Title:			
Years in the field of co	onstruction:		
Years in the company	:		
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A Comment	dectronic These www.lib.mrt.ac	Somale Dissertations	J
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Part C: - Questionnaire Survey

Please tick ($\sqrt{}$) or underline the answer which best describes the extent to which the following constructs apply to you and your organisation.

1.0 Overall pattern of connections between actors

1.	To what ext		ou discuss work	k related probl	ems with your su	periors through
	□ Never	Rare	ely 🗖 O	ccasionally	☐ Frequently	☐ Always
2.	On average,		g does each di	scussion with y	your superiors las iin	
3.		tworks)?	ou discuss wo iversity of Nectronic The Rarely W. Hb. mrt. a	Moratuwa, S		colleagues (or
4.	On average,		g does each dis □ 1-15 min	scussion with y	your colleagues la in 30-60 m	
5.	You always problems. ☐ Strongly of		e to communic		superiors to solv	e work related Strongly agree
6.	You always problems.	feel free	to communica	ate with your o	colleagues to solv	e work related

	☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
7.	To what extent do you use old friendship ties (links) to tackle current problems of projects which you have not faced before or to get work related advice?
	□ Never □ Rarely □ Occasionally □ Frequently □ Always
	Resources embedded in social networks (e.g. interpersonal trust, accepted haviour patterns, identification, obligations and expectations)
8.	Most of your organisation members are reliable and dependable in terms of the ability to meet obligations and perform a task in problem solving events of dealing with change events.
	☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
9.	You have mutual understanding that other members behave in same way as yo Electronic Theses & Dissertations during shared problem solving. WWW.lib.mrt.ac.lk
	☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
10	. If you ask other members for help when you get into difficult problems, you ca feel confident that they will actively engage in problem solving with you.
	☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
11	. You have been lenient in making judgments when your organisation/ grou members make mistakes during problem solving.
	☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree

12. You can always s discussions in the or	•	inion openly ar	nd freely ir	n problem solving
☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
13. Constructive critici during problem solv			among orga	anisation members
☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
14. Most of the time the problem solving act				_
☐ Strongly disagree	☐ Disagree	□ Don't know	☐ Agree	☐ Strongly agree
15. Your organisation a during trial and erro	riworkity expe		i Lanka.	
16. Your organisation i methods of working ☐ Strongly disagree	and work pro	cedures invented	by organisa	tion members.
17. You feel accepted shared problem solv ☐ Strongly disagree	ving or dealing	with change eve	ents.	
18. You feel helping of obligation in the org		o solve work rela	ated problen	ns as your personal

	☐ Strongly disag	gree 🗖 Disagi	ree 🗖 Don't kno	w	☐ Strongly agree
19	. You are main o		nt your organisatio	onal needs in n	naking solutions to
	☐ Strongly disag	gree 🗖 Disag	ree 🗖 Don't kno	w	☐ Strongly agree
20	members when	n you engage i m, experimenta	n knowledge cre	ation activities	rganisation/ group such as solving a
3.6) Shared engine	ering culture a	nd storey telling	practice	
21	interpretations context?	when you site Electronic www.lib.m	discussing project Theses & Diss	Work Pelated pertations	uage, meaning and problems in formal
22	. To what exte	nt you are us	sing slang or lir	ngo when eng	aging in informal
	knowledge sha	ring discussion	s with other orgar	nisation /group i	members?
	□ Never	☐ Rarely	☐ Occasionally	☐ Frequent	ly
23		cess and failure	e stories of previ	•	stories on project
	□Never	☐ Rarely	☐ Occasionally	☐ Frequent	tly

24. You always know who owns knowledge you need in formal organisation structure (formal relations) to deal with immediate work related problems. ☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
25. You can search and access knowledge easily through informal links in the organisation when you face a challenge.
☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
26. You can always exchange knowledge with others by different interpersonal channels in the organisation.
☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations and informal communication channels in the organisation to exchange and combine knowledge with other members.
☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
28. You have many old personal relationships to access knowledge and expertise that is otherwise difficult to obtain to solve immediate problems.
☐ Strongly disagree ☐ Disagree ☐ Don't know ☐ Agree ☐ Strongly agree
5.0 Level of perception on the outcome of knowledge sharing activities
29. You believe you will be receiving valuable knowledge by participating knowledge sharing activities in your organisation.

4.0 Level of accessibility to information and knowledge during problem solving



	☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
30.	The knowledge you problem solving disc	ussions is use	ful in helping to	get your wo	ork done.
	☐ Strongly disagree	☐ Disagree	☐ Don t know	☐ Agree	☐ Strongly agree
31	. You always use tec frame of reference fo		or standards de	eveloped by	other members as
	☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
32	Strongly disagree	nat you are go owledge.	Moratuwa, Sr	e or what p	_
6.0	Level of motivation	to knowledge	exchange and c	combination	!
33	. You would take the event of a problem.	initiative to e	exchange experie	ence with ot	her members in the
	☐ Strongly disagree	□ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
34	. You would propose ☐ Strongly disagree				
35	You are willing to t members.	ake a part in _l	problem solving	discussions	sponsored by other

[☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
	You will turn to corganisation.	other members	s for help if yo	ou get into	difficulties in the
!	☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
37.	Your organisation r	nembers consi	der knowledge s	haring as a o	daily habit.
	☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
7.0	Level of capability i	to combine kn	owledge		
	You can understand	l knowledge o	other members p	rovide durii	ng problem solving
	Burney		eses & Disser		☐ Strongly agree
	You can communion problem solving dis		ange ideas with	other men	nbers easily during
	☐ Strongly disagree	☐ Disagree	☐ Don't know	Agree	☐ Strongly agree
40.	You can hold the la	test progress in	n your field in the	e organisatio	on.
	☐ Strongly disagree	☐ Disagree	☐ Don't know	☐ Agree	☐ Strongly agree
41.	You can distinguish	and collect no	ew knowledge ar	nd informati	on rapidly.
	☐ Strongly disagree	☐ Disagree	☐ Don't know	√	☐ Strongly agree
42.	You can study know	vledge you are	e lack of rapidly.		

☐ Strongly disa	igree 🗖	Disagree	☐ Don't know	☐ Agree	☐ Strongly agree	
3. Your creativity in the organisa		nhanced b	y participation in	problem s	olving discussions	3
☐ Strongly disa	igree 🔲	Disagree	☐ Don't know	☐ Agree	☐ Strongly agree	

I would like to thank you for the information given and time you have dedicated to this research. If you are interested to know the outcome of this research, it would be my pleasure to share it with you.



APPENDIX B: QUESTIONNAIRE REFERENCES

Sub- construct	Indicators	Measurement items	Source
Structural	Network ties	Q1	Chua (2002);
dimension		Q3	Chow and Chan
	Network configuration	Q2	(2008)
		Q4	
		Q5	Li and Zhu (2009)
		Q6	
	Appropriable organisation	Q7	Researcher
Relational	Interpersonal trust	Q8	Li and Zhu
dimension		Q9	(2009); Chua
		Q10	(2002); Chow and
	University of Moratuv	va, Sr ^Q L ¹ anka.	Chan (2008)
	Norms of corporationses & I	Disser@lf2ons	
	www.lib.mrt.ac.lk	Q13	
		Q14	
		Q15	
		Q16	
	Sense of identification	Q17	
	Obligations & expectations	Q18	Researcher
		Q19	
		Q20	Li and Zhu (2009)
Cognitive	Shared language & codes	Q21	Chua (2002)
dimension		Q22	
	Shared narratives	Q23	

Accessibility	Accessibility to knowledge 1	Q24	Li and Zhu (2009)
to knowledge	Accessibility to knowledge 2	Q25	
	Accessibility to knowledge 3	Q26	
	Accessibility to knowledge 4	Q27	
	Accessibility to knowledge 5	Q28	Researcher
Anticipation	Anticipation of value 1	Q29	Researcher
of value	Anticipation of value 2	Q30	
	Anticipation of value 3	Q31	
	Anticipation of value 4	Q32	
Motivation to	Motivation to knowledge 1	Q33	Li and Zhu (2009)
knowledge	Motivation to knowledge 2	Q34	
	Motivation to knowledge 3	Q35	
	Motivation to knowledge 4	Q36	
	Motivation to knowledge 5 University of Moratus	va. Sri Lanka	
	Electronic Theses & I	Dissertations	
Combination capability	Combination capability 1k	Q38	Li and Zhu (2009)
Сарабиту	Combination capability 2	Q39	
	Combination capability 3	Q40	
	Combination capability 4	Q41	
	Combination capability 5	Q42	
	Combination capability 6	Q43	Researcher

APPENDIX C: VARIABLE ALLOCATION DOCUMENT

Variable	Indicator variable	Reference to questionnaire item
Structural dimension	Network ties 1	Q1
	Network ties 2	Q3
	Network configuration 1	Q2
	Network configuration 2	Q4
	Network configuration 3	Q5
	Network configuration 4	Q6
	Appropriable organisation	Q7
	Interpersonal trust 1	Q8
	Interpersonal trust 2	Q9
	Interpersonal trust 3	Q10
	.Interpersonal trust 4 rsity of Moratuwa, Sri Lan	Q11
	Norms of corporation Lation	
	Norms of corporation 2	Q13
	Norms of corporation 3	Q14
	Norms of corporation 4	Q15
	Norms of corporation 5	Q16
	Sense of identification	Q17
	Obligations & expectations 1	Q18
	Obligations & expectations 2	Q19
	Obligations & expectations 3	Q20
Cognitive dimension	Shared language & codes 1	Q21
	Shared language & codes 2	Q22
	Shared narratives	Q23

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