

## Enhancing Hospitality Business Performance: The Role of Entrepreneurial Orientation and Networking Ties in a Dynamic Environment

TAJEDDINI, Kayhan <a href="http://orcid.org/0000-0002-5087-8212">http://orcid.org/0000-0002-5087-8212</a>, MARTIN, Emma and ALI, Alisha

Available from Sheffield Hallam University Research Archive (SHURA) at:

http://shura.shu.ac.uk/26506/

This document is the author deposited version. You are advised to consult the publisher's version if you wish to cite from it.

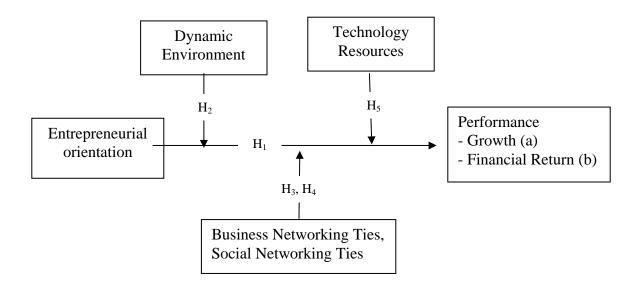
## **Published version**

TAJEDDINI, Kayhan, MARTIN, Emma and ALI, Alisha (2020). Enhancing Hospitality Business Performance: The Role of Entrepreneurial Orientation and Networking Ties in a Dynamic Environment. International Journal of Hospitality Management, 90, p. 102605.

## Copyright and re-use policy

See <a href="http://shura.shu.ac.uk/information.html">http://shura.shu.ac.uk/information.html</a>

Figure A: Hypothesized model



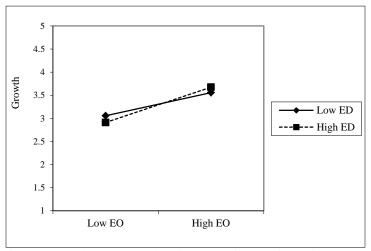


Figure 1, Panel A. The moderating role of dynamic environment (ED) on the EO–growth performance relationship

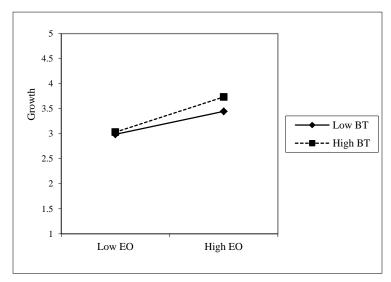


Figure 2, Panel A. The moderating role of business network ties (BT) on the EO-financial returns performance relationship

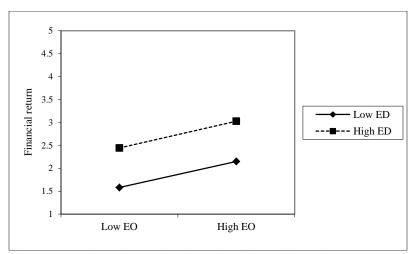


Figure 1, Panel B. The moderating role of dynamic environment (ED) on the EO–financial returns performance relationship

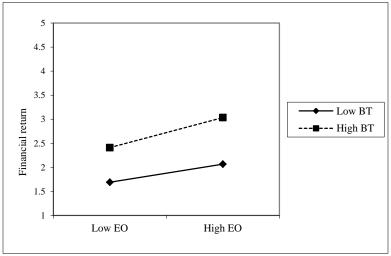


Figure 2, Panel B. The moderating role of business network ties (BT) on the EO-financial returns performance relationship

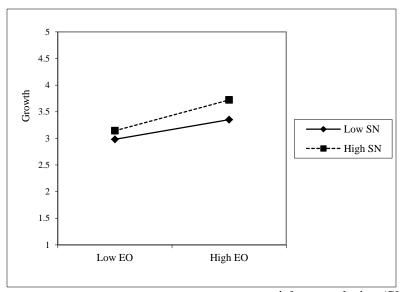


Figure 3, Panel A. The moderating role of social network ties (SN) on the EO–growth performance relationship

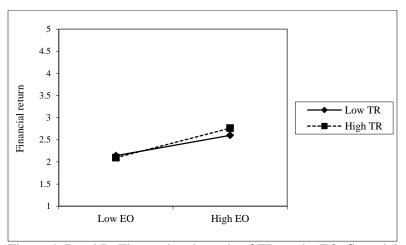


Figure 4, Panel B. The moderating role of TR on the EO–financial return performance relationship

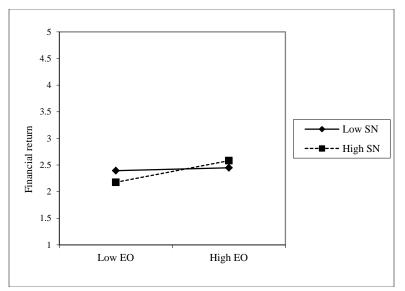


Figure 3, Panel B. The moderating role of social network ties (SN) on the EO-financial return performance relationship

Table 1a: Unidimensionality and convergent validity tests

Constructs	Indicator (parameter)							
			loadings					
	Proactiveness	$\alpha$ =0.86, CR= 0.87, AVE=63%						
	PRO1: R&D, technological, leadership, and innovations		.73					
	PRO2: New lines of products or services							
	PRO3: Changes in product or service							
	Innovativeness	α=0.87, CR= 0.88, AVE=69%						
Entrepreneurial	INN1: Initiates actions							
Orientation (1)	INN2: First to introduce new products/services,							
	INN3: Adopt a very competitive, 'undo the-competitors' p	oosture	.78ª					
	Risk-taking	$\alpha$ =0.86, CR= 0.87, AVE=68%						
	RT1: Proclivity for high-risk projects							
	RT2: Bold, wide-ranging							
	RT3: Aggressive posture		.76ª					

(1) Model summary statistics:  $\chi^2_{(71)} = 117.271$ ,  $\chi^2/df = 1.652$ , p-value=0.17, robust CFI = 0.977, RMSEA =0.048, Delta2=0.977, RMR=0.020; <sup>a</sup>Loading fixed to 1 for identification purposes.

Scale:  $I = not \ at \ all$ ; and  $7 = to \ an \ extreme \ extent$ .

Constructs	Indicator (parameter)								
	Performance Growth α=0.87 CR=0.88 AVE=75%								
Performance Growth (2)	GR1: Profit growth goal achievement								
	GR2: Sales growth goal achievement								
	GR3: Market share growth goal achievement		.75ª						
	Performance Financial return $\alpha$ =0.87, CR=0.88 AVE=69%								
Performance	FR1: Profitability goal achievement								
Financial	FR2: Return-on-investment goal achievement								
return <sup>(2)</sup>	FR3: Return-on-sales goal achievement								
	FR4: Return-on-assets	·	.87ª						

Model summary statistics:  $\chi^2_{(13)} = 48.78$ ,  $\chi^2/df=3.09$ , p-value=0.00, robust CFI = 0.98, GFI= 0.95, RMSEA = 0.08, Delta2=0.98, RMR=0.02; <sup>a</sup>Loading fixed to 1 for identification purposes. Scale: 1= much worse than my competitors; 7= much better than my competitors

Table 1b: Unidimensionality and convergent validity tests (Cont'd)

Constructs	Indicator (parameter)							
	Environmental dynamism	α=0.87, CR=0.89 AVE=73%						
	ED1: Our firm must rarely change its marketing practices to	keep up with the market and	.76					
	competitors (vs. Our firm must change its marketing practices extremely frequently).							
	ED2: The rate at which products/services are becoming obsolete in the industry is very slow (vs. The							
Environmental	rate of obsolescence is very high).							
$dynamism^{(I)}$	ED3: Actions of competitors are quite easy to predict (vs. Actions of competitors are unpredictable).							
	ED4: Demand and consumer tastes are fairly easy to forecast (vs. Demand and tastes are almost							
	unpredictable).							
	ED5: The production/service technology is not subject to very much change and is well-established							
	(vs. The modes of production/service change often and in major ways).							

<sup>(1)</sup>Model summary statistics:  $\chi^2_{(13)} = 28.321$ ,  $\chi^2/df = 2.179$ , p- value=0.008, robust CFI = 0.976, GFI= 0.963, RMSEA = 0.079, Delta2=0.976, RMR=0.040, aLoading fixed to 1 for identification purposes.

Scale: 1=strongly disagree; 7=strongly agree

Constructs	Indicator (parameter)							
			loadings					
	Business network ties	α=0.84, CR=0.86 AVE=76%						
	BT1: Customers		.75					
	BT2: Suppliers							
	BT3: Competitors							
(2)	BT4: Distributors							
Network ties <sup>(2)</sup>	Social network ties	α=0.77, CR=0.79 AVE=63%						
	SN1: I can obtain information about my industry from my network of contacts faster than							
	competitors can obtain the same information.							
	SN2: I have a professional relationship with someone influential in my industry.							
	SN3: I have engaged with someone influential in my industry in informal social activity (e.g.,							
	playing tennis).							

<sup>(2)</sup> Model summary statistics:  $\chi^2_{(13)} = 19.982$ ,  $\chi^2/df=1.537$ , p- value=0.096, robust CFI = 0.986, RMSEA = 0.053, Delta2=0.987, a Loading fixed to 1 for identification purposes.

Scale: I = not at all to 7 = to a large extent.

Constructs	Indicator (parameter)									
	Technology resources in customer service	α=0.84, CR=0.89 AVE=74%								
(2)	TR1: Scanning/imaging technology									
Technology <sup>(3)</sup>	TR2: Network with agents/brokers									
resources in	TR3: Web-enabled customer interaction		.79							
customer service	TR4: Call tracking/customer relationship management system									
	TR5: Computer telephony integration (CTI)									
	TR6: Customer service expert/knowledge-based system									

<sup>(3)</sup> Model summary statistics:  $\chi^2_{(9)} = 28.499$ ,  $\chi^2/df = 3.167$ , p- value=0.001, robust CFI = 0.976, RMSEA = 0.097, Delta2=0.976, a Loading fixed to 1 for identification purposes.

CR=Composite reliabilities, AVE= average variance extracted

CR=Composite reliabilities, AVE= average variance extracted

Scale: 0 = Don't intend to implement; 1 = Not yet begun; 3 = Standard/common implementation; 5 = Highly advanced implementation

Table 2: Hierarchical Moderated Regression Analysis (Growth and Financial return as the criterion variable) (n=192)

Predictor (Independent) variables	Criterion (Dependent) variables														
•	Growth (GR)							Financial Return (FR)							
Step1: Control variables	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	
Firm age (log)	378	086	122	096	038	078	071	564	247	233	246	074	282	087	
Firm Industry	100	025	.023	007	029	015	022	069	.016	002	.014	007	025	039	
Firm ownership	.022	152	114	104	162	157	097	.206	.036	.022	.032	001	.060	.012	
Firm size (log)	.134	052	020	.049	099	042	011	.247	.069	.057	.059	101	.028	099	
Year Experience (log)	.029	.035	.059	.092	.031	.036	.088	.094	.089	.079	.083	.077	.084	.081	
Background	.043	.075	.112	.123	.064	.078	.116	020	.019	.005	.014	021	.005	028	
Firm type	269	110	149	188*	084	122	144	329*	118	103	111	023	068	005	
Step 2: Main effects															
Entrepreneurial orientation (EO) (H <sub>1</sub> )		.288***	.317***	.326***	.241***	.286***	.287***		.212**	.201	.208**	.043	.223	.054	
Environmental dynamism (ED)		.271***	014	160	010	.190	352*		.332***	.440***	.373***	.679***	.685***	452***	
Business network ties (BT)		.280**	.091	004	.194*	.249*	054		.418***	.490***	.445***	.110	.554***	.195**	
Social network ties (SN)		.085	054	104	.095	.063	088		025	.028	007	.014	.066	.066	
Technology resources (TR)		.027	.025	.029	.020	.026	.019		.029	.030	.029	.003	.034	.008	
Step3: The two-way interaction															
$EO \times ED (H_2)$			.065***				.022			.025*				.030*	
$EO \times BT(H_3)$				.090***			.075**				009			.029	
$EO \times SN(H_4)$					.045**		.042**					.161***		.155***	
$EO \times TR (H_5)$						.014	019						.062**	.035**	
Marker variable							027							003	
$R^2$	.033	.475	.544	.567	.496	.477	.596	.063	.525	.534	.525	.791	.554	.807	
$\Delta R^2$															
Adjusted R <sup>2</sup>	004	.440	.510	.535	.460	.439	.556	.027	.493	.500	.491	.776	.521	.788	
F-value	.904	13.513	16.312	17.898	13.501	12.484	15.089	1.754	16.461	15.710	15.160	51.970	17.009	42.752	

Note: Unstandardized regression coefficients are reported.  $\Box p < .05$ ;  $\Box \Box p < .01$ ;  $\Box \Box \Box p < .001$  (two-tailed test).  $\Delta R^2$  means the increase in  $R^2$  from the model to the previous model.

**Table 3:** Intercorrelations, shared variances, and marker variables adjustment (n = 192) <sup>a</sup>

		, , , , , , , , , , , , , , , , , , , ,				(								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Firm age (log)	1	.0081	.063	098	005	010	148	079	124	064	-058	.029	139	096
2. Firm Industry	.087	1	.132	.039	002	063	005	.013	083	043	06	.048	033	60
3. Firm ownership	.069	.138	1	120	.069	034	055	.07	.049	.057	.039	013	.063	01
4. Firm size (log)	091	.045	113	1	.165	.055	.357	.178	.027	059	237	.253	.062	.015
5. Year Experience (log)	034	.004	.075	.171*	1	130	.221	.018	059	.042	011	013	.047	02
6. Background	003	056	027	.061	123	1	.005	.008	028	039	016	072	020	.021
7. Firm type	141	.001	048	.363**	.227**	.011	1	.027	053	247	013	.024	128	.127
8. Entrepreneurial orientation (EO)	072	.019	.076	.184*	.024	.014	.033	1	.35	.378	.378	.075	.455	.49
9. Environmental dynamism (ED)	117	076	.055	.033	052	021	046	.356**	1	.53	.456	.07	.603	.554
10. Business network ties (BT)	057	036	.063	052	.048	032	.240**	.384**	.536**	1	.473	.013	.595	.534
11. Social network ties (SN)	051	044	.045	023	005	009	006	.384**	.462**	.479**	1	.041	.373	.43
12. Technology resources (TR)	.035	.054	006	.259**	006	077	.030	.081	.076	.019	.047	1	.083	.069
13. Financial Return (FR)	132	027	.069	.068	.053	013	121	.461**	.609**	.601**	.379**	.089	1	.638
14. Growth (GR)	089	053	004	.021	004	.027	120	.496**	.560**	.540**	.436**	.075	.644**	1
MV = Marker variable	.007	073	.006	.004	.039	.027	.027	076	125	035	112	072	113	121
Mean	1.59	.18	.13	1.96	2.92	.31	.54	5.33	4.26	4.60	4.88	2.63	4.83	3.86
Standard deviation (SD)	.21	.38	.33	.42	.56	.46	.49	.79	.91	.62	.81	1.02	.82	.81
HSV= Highest shared variance								.24	.37	.36	.19	.00	.41	.01
Note: Correlations below the diagonal are before the MV ediustment, whereas the correlations above the diagonal are effort the MV ediustment (\sqrt{n}=<0.5]														

<sup>&</sup>lt;sup>a</sup>Note: Correlations below the diagonal are before the MV adjustment, whereas the correlations above the diagonal are after the MV adjustment ( $\Box p = <.05$ , two-tailed test).

Appendix A: Entrepreneurial-based networking (Illustrative examples)

Appendix A. Entrepi	reneurial-based networking (Illustrative examples)
Concepts	Illustrative quotes
Entrepreneurial	'demand for new service is high but we cannot afford to go for new
dimensions	services simply because of our low budget' and 'low priority of the
	available budget'
	Nevertheless, other informants put more emphasis on proclivity towards
	innovation. 'We have begun to use service automation and the results are
	satisfactory';
	'our experience shows that mobile service and self-service have enabled
	us to reduce our costs';
	'our genuine culture is to make every possible effort to enhance customer
	loyalty and satisfactionand we do our best to pursue perfection in the
	details of our products and services'
	one informant states how innovation is key to the success of traditional
	Japanese firms.'; 'we have adopted self-service check-in kiosks and our
	customers are pleased with the easy check-in and check-out'.
Networks	Sociality and interactions with customers, suppliers, and competitors were
	frequently emphasized in our interviews.
	'interactions with our stakeholders is unavoidable'; '
	some of the comments we get through are our social networks are bitter,
	but we do our best to fix the problem as soon as possibleof course we
	cannot satisfy everybody, but we do our best';
	'we regularly observe the comments that our customers write about us,
	oftentimes we discuss with our colleagues the comments that we receive
	through social media';
	'our service is for people, and we have a good connection with our
	customers, travel agencies and trusted partners';
	'connection with our business partners and customers is vital for us and I
	guess social networking is a key to success for us'.
	'If we do not use social media and networking, we can hardly survive; we
	are extremely dependent on social and business connections, as customers
	choose and evaluate us through social media, and we take seriously the
	need to make them happy to receive good feedback'.
Environment	'Although many people believe that our industry is slow to change, we
	have adopted different and new technologies, and the results are very
	effective and satisfactory';
	'due to the nature of our business, we have to change our marketing
	strategy often'.