## **Clarifying the Role of Reshoring in Global Manufacturing Strategy**

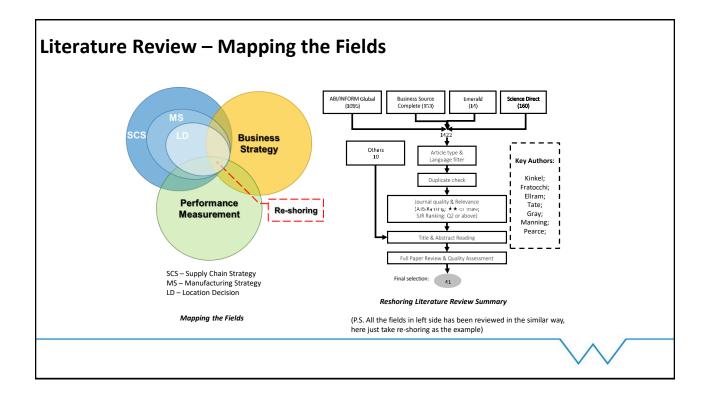


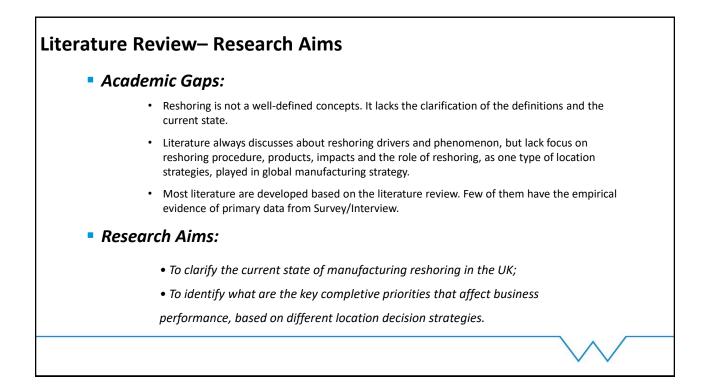
Di Li, Business School, Birmingham City University WMG, University of Warwick Professor Janet Godsell, WMG, University of Warwick Dr. Antony Karatzas, WMG, University of Warwick

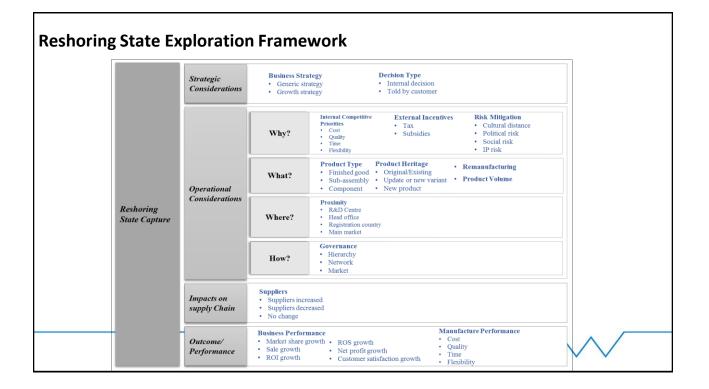
## Agenda

- Background
- Research Questions
- Developing the Framework and Conceptual Model
- Research Design
- Results and Discussion



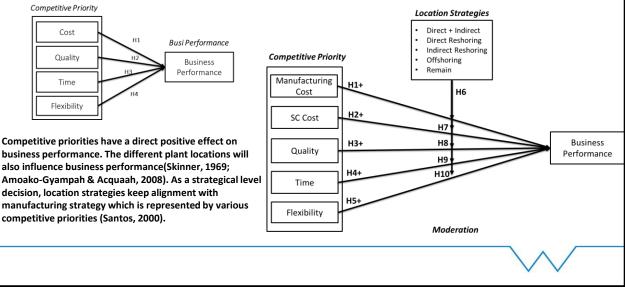




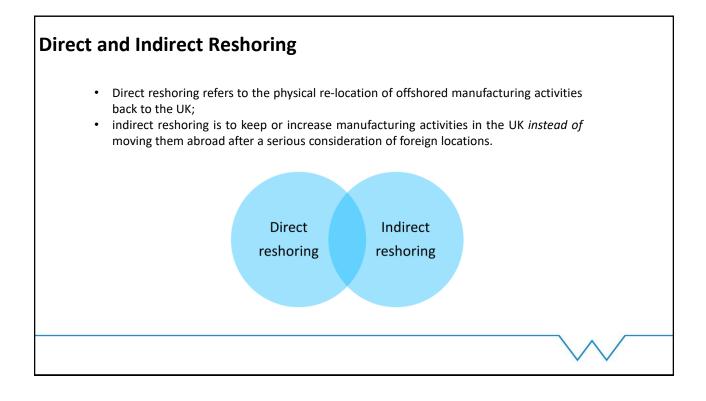


## **Theoretical Model and Hypotheses**

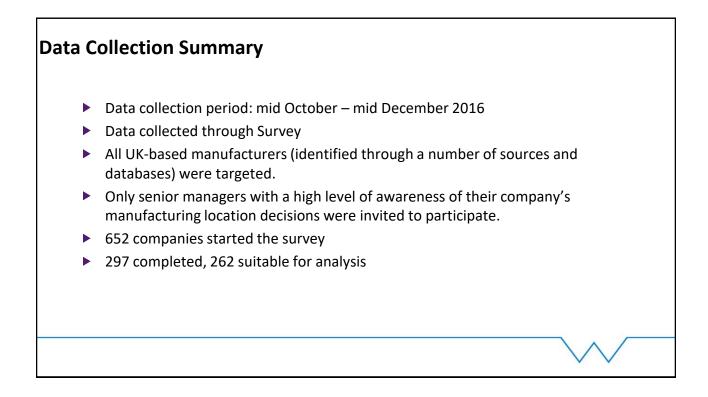
Literature Review: since the measurements of competitive priorities has been developed by Ward (1998), there is a lot literature discuss the correlation between competitive priorities (CP) and Business Performance (BP). It has been justified the CP has positive affect on business performance (Ward et al., 1995; Amoako-Gyampah & Acquaah, 2008; Rosenzweig et al., 2003; Kathuria, 2000).

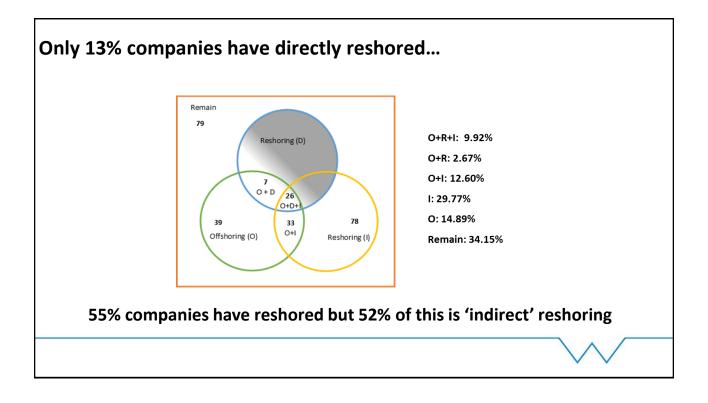


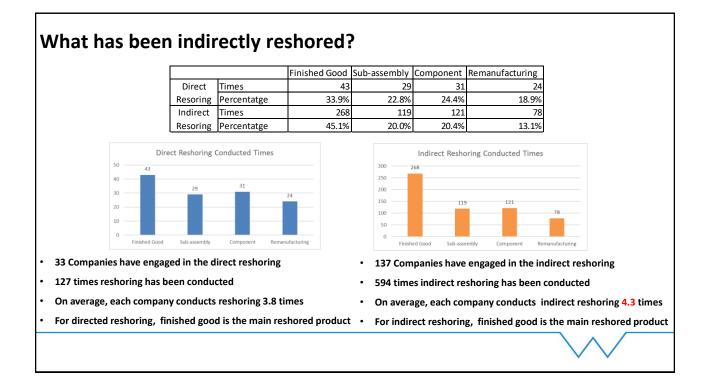
Constructs	Measurements	Constructs	Measurements
Manufacturing Cost	- Reduce production costs	Time	- Increase delivery speed
	- Reduce labour costs		- Reduce production lead time
	- Increase labour productivities	Flexibility	<ul> <li>Make rapid design changes</li> </ul>
C Cost	- Reduce coordination of operation cost		<ul> <li>Adjust capacity quickly</li> </ul>
	- Reduce taxes and tariff		<ul> <li>Make rapid volume changes</li> </ul>
	- Reduce transportation costs		<ul> <li>Make rapid product mix changes</li> </ul>
	- Reduce overhead costs		- Make rapid timing of delivery changes
	- Ensure conformance to produce	During an Daufannan	
uality	specifications	Business Performance	- Return on sales (ROS)
	<ul> <li>Ensure accuracy in manufacturing</li> <li>Offer consistently low defect rates</li> </ul>		- ROS growth - Return on Investment (ROI)
	- Provide reliable products		- ROI growth
			- Pre-tax return on assets (ROA)
	<ul> <li>Improve supplier quality assurance</li> </ul>		- Pre-tax return on assets (ROA)



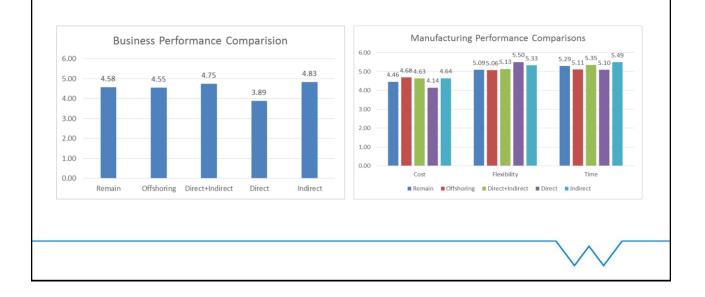
Groups	Offshoring (0)	Direct Reshoring (D)	Indirect Reshoring (I)	Companies Activities
Group A (O+D+I)	V	V	V	Companies who have offshored and then engaged in both direct reshoring and indirect reshoring
Group B (O+D)	V	V		Companies who have offshored and then only engaged ir direct reshoring
Group C (O+I)	V		V	Companies who have offshored and then only engaged ir indirect reshoring
Group D (I)			V	Companies who have only engaged in indirect reshoring
Group E (O)	V			Companies who have only offshored
Group F (Remain)				Companies who never engaged in offshoring or reshoring

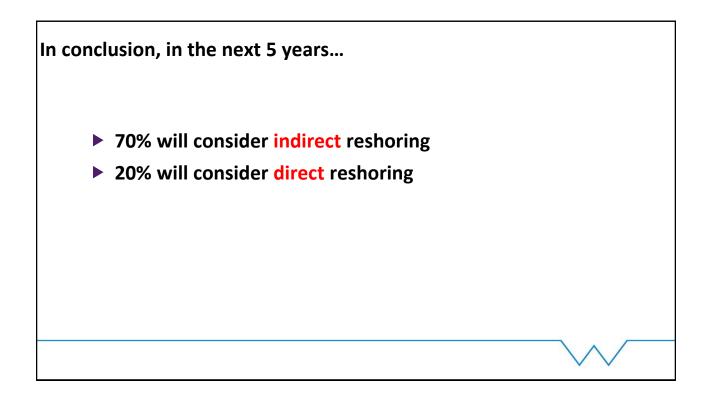






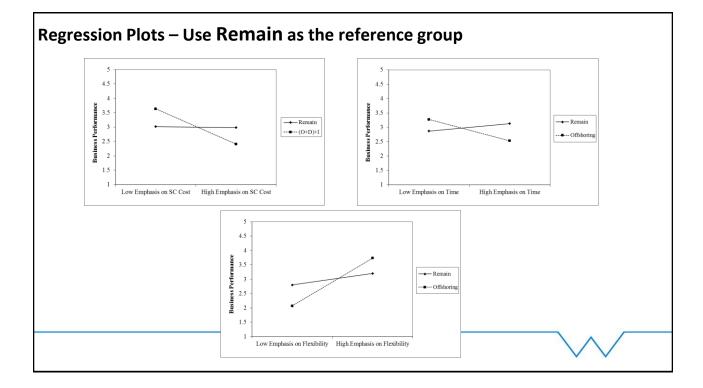
Reshoring business performance is better than that of the remain companies and much better than those offshored; offshored companies do best on cost, but Reshored (indirect or direct) companies do best on flexibility and delivery time.





Construct	Mean	Std. Dev	MC	SCC	Q	DT	F	BP
Manufacturing Cost (MC)	4.78	1.37	0.801 (0.737)					
SC Cost (SCC)	3.84	1.51	.545***	0.802 (0.662)				
Quality (Q)	5.91	1.03	.411***	.402***	0.859 (0.756)			
Delivery Time(DT)	5.18	1.46	.327***	.378***	.323***	0.847 (0.826)		
Flexibility (F)	4.42	1.60	.266***	.384***	.302***	.570***	0.895 (0.782)	
Business Performance (BP)	4.70	0.92	.249***	.214***	.240***	.316***	.334***	0.903 (0.797)
(BP) ignificant at p< .10. *			-		-			

Independent Variables		ndent Variables (B		
	Model 1	Model 2	Model 3	Model 4
Company Industry	.268**	.172	.187	.119
Company Size	196	146	149	136
Manufacturing Cost		.120*	.126*	.181
SC Cost		017	003	069
Quality		.078	.077	.115
Delivery Time		.132*	.116	.298*
Flexibility		.201***	.193***	.007
Direct+Indirect			.200	.028
Indirect			.183	.181
Offshoring			097	100
Manufacturing Cost x Direct+Indirect				.273
SC Cost x Direct+Indirect				596*
Quality x Direct+Indirect				062
Delivery x Direct+Indirect				.142
Flexibility x Direct+Indirect				082
Manufacturing Cost x Indirect				122
SC Cost x Indirect				.157
Quality x Indirect				111
Delivery Time x Indirect				285
Flexibility x Indirect				.228
Manufacturing Cost x Offshoring				.016
SC Cost x Offshoring				.146
Quality x Offshoring				.168
Delivery Time x Offshoring				503**
Flexibility x Offshoring				.633**
Adj R <sup>2</sup>	.018	.148	.150	.178
$\Delta R^2$	.026	.145	.012	.075
F change	3.353**	8.65***	1.241	1.554*



Regression R	esults -	– Use Offshori	ng as th	e refer	ence gro	oup
	Dependable variable	Interaction	Independent variable value	Moderator Value	Interaction Value	_
	BP	Manufacturing Cost x Direct+Indierct	-0.017	0.297	-0.742** 0.645**	
		Time x Direct+Indierct Flexibility x Direct+Indierct	0.132	0.297	-0.715**	

