The Study of Information Sharing for Industry Time-based Competition: The Empirical Analysis on Supply Chain Information

黃玉樹、李德治

E-mail: 9422432@mail.dyu.edu.tw

ABSTRACT

With rapid growth of information technology and competition in the world, the improvement of speed is one of the most important factors for business success. Through interfirm collaboration by sharing information among supply chain partners, some activities which originally performed in an individual firm are replaced by firms with core competency. In performing these activities, the competitive advantages through the supply chain information integration are gradually recognized. The main purpose of this study is to collect and analyze various viewpoints from companies of Taiwan automobile industry supply chain to do the analysis of their viewpoints with information sharing in benefit, motive, risk/scruple, key success factor and the initiator. After the empirical analysis, the conclusions are: 1. The main benefits are: reduce time of delivery, promote service to customer, reduce stocks and etc. 2. The main motives are: enhance customer 's satisfaction, reduce uncertainty of plan and etc. 3. The main risks and scruples are: business secret, information security, higher cost, lack of standard of information and etc. 4. The key success factors are: the cooperation willingness, the initiator, integration of inner information system and etc. 5. The association of automobile industry is suggested to be the initiator. Key Words: Information sharing, Time-based Competition, Supply

Keywords: Information sharing, Time-based Competition, Supply Chain Management, Interfirm Collaboration

Table of Contents

第一章 緒論	1 1.1 研究背景	1 1.2 研究動機	7 1.3 研
究目的	9 1.4 論文架構	13 第二章 文獻探討	14 2.1 供
應鏈管理	14 2.2 時間競爭力與快速回	回應16 2.3 全球運籌管理	
1	8 2.4 跨組織合作	19 2.5 跨組織資訊系統	24 2.6 跨組織資
訊網路科技	27 2.7 跨組織資訊共享	35 第三章 研究方法	40 3.1
研究架構	40 3.2 研究假設	44 3.3 問卷設計	46 3.4 資
料分析方法	48 3.5 研究對象	48 第四章 研究結果	50 4.1
問卷調查回收統計	50 4.2 業者間資訊分	享的利益、動機與風險顧慮因素 544	4.3 業者間資訊分享選
擇對象之策略面與作業面考慮 60 4.4 資訊分享的關鍵成功因素與主導者 62 4.5 跨組織合作的資訊科技課題			
66 4.6 業	者間資訊分享的種類、交換媒介及多	交換 69 4.7 台灣汽車產業供應鏈資	訊分享之特性與模
式 71 第五章 結論與建議			
議	78 5.3 未來研究方向	80 參考文獻	81 附錄一 問
卷內容	86 附錄二 問卷調查彙總 - 資	賢訊分享的資訊種類、交換頻率及交換媒介	↑93 附錄三 問卷調查
彙總整合後之資訊分享的資訊種類、交換頻率及交換媒介 101			

REFERENCES

1. 江進豐 , "我國汽車工業發展之契機",車輛研測資訊,42期,1994年9月。2. 台灣區車輛工業同業公會,

http://www.ttvma.org.tw/index.htm。 3. 蕭瑞聖,"台灣汽車產業因應發展趨勢的做法",車輛工業月刊,127期,1994年8月。 4. 呂執中,"我國車輛產業電子化之策略與展望",工業自動化、電子化月刊,14期,2003年8月。 5. Peter Mr. Senge,"第五項修鍊",天下文化,1994年7月。 6. 孫嚴,"加值網路讓你與世界同步(下)",資訊與電腦125期,1990年。 7. 林煌基,"資訊共享以強化時間競爭力之研究:台灣半導體產業供應鏈資訊整合之實証分析",2000年,國立中山大學資訊管理研究所碩士論文。 8. 陳翠綾,"以組織資訊處理的觀點探討賦能與資訊分享之觀念性架構",2001年,銘傳大學管理科學研究所碩士論文。 9. 張榮圳,"供應鏈管理資訊分享模式之研究",2000年,國立中山大學資訊管理研究所碩士論文。 10. 鮑志偉,"供應鏈中資訊分享對企業表現之影響",2002年,銘傳大學管理科學研究所碩士論文。 11. 游蕙珍,"全球運籌管理系統建立與廠商競爭優勢之關係研究—以半導體廠商為例",2002年,中國文化大學國際企業管理研究所碩士論文。 12. 陳慈暉,"加速回應:全球客戶的一級競賽",能力雜誌,1998年5月。 13. 曾明堂,"企業夥伴之資訊分享與資訊不對稱之研究",2002年,國立中正大學企業管理研究所碩士論文。 14. 李昌雄,商業自動化與電子商務,智勝出版,1998年。 15. 彭朱如,"醫療產業中跨組織合作關係類型與管理機制之研究",1998年,國立政治大學企業管理研究所

博士論文。 16. 曾健豐,"電子商務關鍵因素之探討",2003 年,淡江大學資訊管理研究所碩士論文。 貳、西文部份 1. Beamon, B.M., "Supply Chain Design and Analysis: Models and Methods," Production Economics, 1998, pp.281-294. 2. Carter, J. R., and Ferrin, B. G., "The Impact of Transportation Costs on Supply Chain Management," Journal of Business Logistics, Vol. 16, Iss. 1, 1995, pp.189-212. 3. Clemons, E.K. "The Impact of Information Technology on the Organization of Economic Activity: The "Move to the Middle" Hypothesis," Journal of Management Information Systems, Fall 1993, pp.9-35. 4. Christopher, M. "Logistics and Supply Chain Management: Strategies for Reducing Cost and Improving Service, " 1998. 5. Crook, C.W. & Kumar, R.L. " Electronic Data Interchange: a Multiindustry investigation using grounded theory, "Information & Management 34, 1998, pp.75-89. 6. Ellram, L. M. and Hendrick, T. E., "Partnering Characteristics: A Dyadic Perspective, "Journal of Business Logistics, Vol. 16, 1995, pp.41-63. 7. Gardner, J.T. et al. "Understanding Shipper-Carrier and Shipper-Warehouse Relationships: Partnership Revisited, "Journal of Business Logistics, 15,2, 1994, pp.121-143. 8. Gentry J. J., "The Role of Carriers in Buyer-Supplier Strategic Partnerships: A Supply Chain Management Approach, "Journal of Business Logistics, Vol. 17, Iss. 2, 1996, pp.35-55. 9. Howell, R.A. and S.R. Soucy, "The New Manufacturing Environment: Major Trend for Management Accounting," Management Accounting, Jul 1978, pp.13-19, http://manscil.uwaterloo.ca/~maalam/scm.htm. 10. Ilyoo B. Hong, "A New Framework for Interorganizational Systems based on the Linkage of Participants' Roles, "Information & Management, Vol. 39, 2002, pp.261-270, 11. Kalakota, R., & Whinston, A. B., "Frontiers or Electronic Commerce," Addison-Wesley Pub, Inc, 1997. 12. Konsynski, B.R. "Strategic Control in the Extebded Enterprise," IBM Systems Journal, vol.32, No.1, 1993, pp.111-142. 13. Kumar, K. & Dissel, H.G.van "Sustainable Collaboration: Managing Conflict and Cooperation in Interorganizational Systems, " MIS Quarterly, Sep 1996. 14. Kumar, Ram L. and Crook, Connie W., " A Multi-Disciplinary Framework for the Management of Interorganizational Systems, "The Database for Advances in Information System, Vol. 30(1),1999. 15. Lee, H. L., Padmanabhan, V. and Whang, S., "The Bullwhip Effect in Supply Chain," Sloan Management Review, Spring 1997. 16. Markland E. Robert, Vickery K. Shawnee, and Davis A. Robert, "Operations Management: Concepts in Manufacturing and Services," West Publishing Co., 1995. 17. Massetti, B. & Zmud, R.W. " Measuring the Extent of EDI Usage in Complex Organizations: Strategics and Illustrative Examples," MIS Quarterly, Sep 1996. 18. Michael Porter, "Competitive Advantage," New York, Free press, 1985. 19. Thomas, D. J., and Griffin, P. M., "Coordinated Supply Chain Management," European Journal of Operational Research, Vol. 94, Iss. 1, Oct 1996, pp.1-15. 20. Toelle Richard A. and Tersine Richard J., "Excess Inventory: Financial Asset Or Operational Liability?," Production and Inventory Management Journal, Vol. 30(4), Fourth Quarter 1989, pp.32-35. 21. Upton, D.M. & McAfee, A. "The Real Virtual Factory," Harvard Business Review, Jul-Aug 1996, pp.123-135.