# The Research of Relationship among Dynamic InnovationCapabilities, Corporate Social Responsibility and Competitive Advan

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### **ABSTRACT**

The research defined the competitive advantage not only financial performance but also focus on sustain innovation performance (Leskovar Spacapan et al., 2007). Furthermore, we research the relationship among the dynamic innovation capabilities, corporate social responsibility and competitive advantage as well as to understand the application to dynamic innovation capabilities. Data were collected from managers or workers executives from 311 biotechnology industries of multinational corporations. Analytical Software is SPSS, and the overall Cronbach's Alpha of the dimensions all bigger then 0.7. Findings demonstrated that dynamic innovation capabilities were related to corporate social responsibility. Dynamic innovation capabilities related positively to competitive advantage.

Keywords: dynamic innovation capabilities, corporate social responsibility, competitive advantage

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#### **REFERENCES**

Aaker, D. A. (1989), "Managing assets and skills: The key to a sustainable competitive advantage," California Management Review, 31(2), 99-106. Afuah, A. (2001). Dynamic boundaries of the firm: Are firms better off being vertically integrated in the face of a technological change. Academy of Management Journal, 44(6): 1211. Aiken (1970). Attitudes toward mathematics. Review of Educational Research, 40(4), 551-596. Adler, P.S. Shenbar, A., (1990). "Adopting your technological base: the organizational challenge". Solan Management Review 32:25-37. Augier, M., & Teece, D. J. (2007). Dynamic capabilities and multinational enterprise: Penrosean insights and omissions. Management International Review, 47,175-192. Amit, R. and P. J. H. Schoemaker (1993), "Strategic Assets and Organizational Rent." Strategic Management Journal, 14, pp.33-46. Ansoff, H. I. (1965). Corporate strategy: An analytic approach to business policy for growth and expansion. New York: Mcgraw-Hill. Bowen, H. R., (1953). Social responsibility of the businessman. New York: Harper & Row. Barney, J. (1991). Firm resources and sustained competitive advantage. Journal of Management, 17(1), 99-120. Berman, S. L., Wicks, A. C., Kotha, S. and Jones, T. M., (1999). Does Stakeholder Orientation Matter? The Relationship between Stakeholder Management Models and Firm Financial Performance, Academy of Management Journal, 42(5), 488-506. Brammer, S. and Millington, A., (2005). Corporate reputation and philanthropy: an empirical analysis. Journal of Business Ethics 61, 29-44. Bowen, H. R., (1953). Social responsibility of the businessman. New York: Harper & Row. Chadee, D., & Kumar, R. (2001). Sustaining the international compe- titive advantage of Asian firms: A conceptual framework and research propositions. Asia Pacific Journal of Management, 18(4), 461-480. Carl, L. and V. K.Mary (1995). "Using Core Capabilities to Create Competitive Advantage." Organizational Dynamics, New York, 24, No.1, pp.6-19. Christensen, C. M. & Raynor, M. E. (2003). "The innovator's solution: creating and sustaining successful growth. " Harvard Business School Press. Christensen, C. M. (1997). " The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail. "Harvard Business School Press. Chacke, G. K. (1988). "Technology Management-Application to Corporate Markets and Military Mission, "NY: Praeger. Clarkson, B. E., (1995). A Stakeholder Framework for Analyzing and Evaluating Corporate Social Performance, Academy of Management Review, 20, 92-117. Carroll, A. (1979). A Three-Dimensional Conceptual Model of Corporate Social Performance, Academy of Management Review, 4, 497-505. Carroll, A. B. (1998). The four faces of corporate citizenship. Business and Society Review, 100-101, 1-7. Constance, E and Helfat (1997). " know-how and asset complementarity and dynamic capability accumulation; A case of R&D." Strategic Management Journal, Vol. 18, Iss. 5; p. 339. Corner., K. R., & Prahalad. C. K. (1996). A Resource-based Theory of the Firm: Knowledge Versus Opportunism. Organization Science, 7(5): 477-501. Collis, D. J. (1991), "A Resource-Based Analysis of Global Competition: The Case of The Bearings Industry." Strategic Management Journal, 12, pp.49-68. Das, A. and R. Narasimhan (2000), "Purchasing Competence and Its Relationship with Manufacturing Performance. "The Journal of Supply Chain Management, spring, pp.17-28. Dietz, T., Stern, P.C., & Guagnano, G.A.(1998), "Social structural and social psychological bases of environmental concern," Journal of Environment and Behavior, Vol. .30, No. 4, pp.450~471. DeTienne, Kristen B. and Lewis, L. W., (2005). The pragmatic and ethical barriers to corporate social responsibility disclosure: The Nike Case. Journal of Business Ethics 60, 359-376. Dierickx, I. and K. Cool (1989). "Assets Stock Accumulation and Sustainability of Competitive Advantage. "Management Science, 35, No.12, pp.1504-1511. Drucker, P., (1986). "Drucker on management: a crisis of capitalism, Wall Street Journal, Eastern edition, September 30, pp. 1-1. Dyer and Nobeoka (2000). "Creating and managing a high-performance knowledge-sharing network; the Toyota case." Strategic Management Journal, 21(3): 345-367, Eisenhardt, K. & Martin, J. (2000), Dynamic Capability: What are they? Strategic Management Journal, 21, 1105-1121. Egri, C. P., Maignan, I., Ralsto, D. A., Bowen, F., Gond, JP., Lo, C. and Griffith, D, (2004). Across-Cultural Examination of Corporate Social and Environmental Responsibility Practices and Their Benefits in Five Countries, Academy of Management Conference Paper, New Orleans, LA. Eells, R., (1960). The Meaning of Modern Business, New York: Columbia University Press, Friedman, M. (1971). Does business have a social responsibility? Bank Administration, 13-14. Freeman, R. E., (1984). Strategy Management: A Stakeholder Approach, Boston: Pitman. Guan, J., & Ma, N. (2003). Innovative capability and export performance of Chinese firms. Technovation, 23(9), 737-747. Guo, B. (2000). Life Cycle View of Firm 's Core Competence: Chinese Manufacturing Industry as a Case, IEEE, pp.363-367, Grant, R. M. (1991). "The Resource-Based Theory of Competitive Advantage: Implications for Strategy Formulation." California Management Review, 33, No.3, pp.114-135. Hayes, R. H., & Pisano, G. P. (1996). Manufacturing strategy: At the intersection of two paradigm shifts. Production and Operations Management, 5(1), 25-41. Hill, C. W. and G. R. Jones. (2001). Strategic Management Theory: An Integrated Approach. Boston: Houghton Mifflin Company Press. Hitt, A. M., Ireland, R. D., and Hoskisson, R. E. (1997). Strategic management: Competitiveness and globalization. West Publishing Company. Holt, K. (1985). "User-Oriented Product Innovation - Some Research Findings, "Holt, K., (1988). The role of the user in product innovation. Technovation, 7(3), 249. Hunt, S. D. and Morgan, R. M. (1995). "The comparative advantage theory of competition," Journal of Marketing, 59(2), 1-16. Higgins A, Kozan E, Ferreira L. (1996). Optimal scheduling of trains on a Single line track. Transportation Research B. Vol 30: 147-161. Kok, P., Wiele, T., McKenna, R., & Brown, A. (2001). A corporate social responsibility audit within a quality management framework. Journal of Business Ethics, 31, 285-297. Kylaheiko, K., Lehmusvaara, A., & Tuominen, M. (2001). An analytic approach to supply chain development. International Journal of Production Economics, 71, 145-155. Kogut, B. and U. Zander. (1992). Knowledge of the firm, combinative capabilities, and the replication of technology. Organization Science, 3, 383-397. Philip Kotler, Nancy R. Lee. (2006). "Marketing in the Public Sector: A Roadmap for Improved Performance". Publisher: Wharton School. Leonard-Barton, D. (1995). Well springs of knowledge. Harvard business school press, Boston. Lantos, G. P. (2001). The boundaries of strategic corporate social responsibility. Journal of Consumer Marketing, 18, 595-632. Long, C. & Vickers-Koch, M. (1995). Using

Core Capabilities to Create Competitive Advantage. Organizational Dynamics, 7-22. Lawson, Benn; Samson, & Danny (2001). Developing Innovation Capability in Organisations: A Dynamic Capabilities Approach. International Journal of Innovation Management, Vol. 5 (3): 377-400. Li, S., Ragu-Nathan, B., Ragu-Nathan, T.S., & Rao, S. (2006). The impact of supply chain management practices on competitive advantage and organizational performance. Omega, 34(2), 107-124. Leskovar-Spacapan, G., & Bastic, M. (2007). Differences in organizations 'innovation capability in transition economy: Internal aspect of the organizations 'strategic orientation. Technovation, 27(9), 533-546. Mascarenhas, B., A. Bayeja, and M. Jamil (1998). "Dynamics of Core Competencies in Leading Multinational Companies." California Management review, 40, No.4, pp.117-132. McNichols, T. J. (1972). Policy making and executive action: Cases on business policy, 4th Ed. New York: McGraw-1431. Mie Augier, David, J and Teece (2007). "Dynamic Capabilities and Multinational Enterprise: Penrosean Insights and Omissions", Management International Review, vol.47, pp.175-192 Mahoney, J. T. and J. R. Pandian (1992). "The Resource-Based View within the Conversation of Strategic Management "Strategic Management Journal, 13, pp.363-380. Michael E. Porter, "Competitive Strategy", 1980, p. pxvii. Mitchell, R. K., Agle B. R. and Wood, D. J., (1997). Toward a Theory of Stakeholder Identification and Salience: Defining the Principle of Who and What Really Counts, Academy of Management Review, 28, 853-866. Miyazaki, K. (1999). "Building Technology Competencies in Japanese Firms." Industrial Research Institute, Sep/Oct, pp.39-45. Mooney, A. (2007). Core competence, distinctive competence, and competitive advantage: What is the difference? Journal of Education for Business, 83(2), 110-115. McEvily., S. K., Das, S., & Mccabe, K. (2000). Avoiding Competence Substitution Terough Knowledge Sharing. Acodemy of Management Review,25(2):294-311. Mone, M. A., Mckinley, W., & Barker, V. L. (1998). Organizational decline and innovation: A contingency framework, Academy Management Review, 23(1), 115-132, Neville, B. A., Bell S. J. and Meng?怪 B., (2005). Corporate Reputation Stakeholders and the Social Performance-Financial Performance Relationship, European Journal of Marketing, 39, 1184-1220. O'Connor, G. C., Paulson, A. S., & DeMartino, R. (2008). Organisational approaches to building a radical innovation dynamic capability. International Journal of Technology Management, 44(1-2), 179-204. Ogden, S. and Watson R., (1999). Corporate Performance and Stakeholder Management: Balancing Shareholder and Customer Interest in the U.K. Privatized Water Industry, Academy of Management Journal, 42(5), 526-538. Prahalad, C. K. and G. Hamel (1990). "The Core Competence of Corporation." Harvard Business Review, 68, No.3, pp.79-91. Pu, Q., H. Xia, Z.Wu, and Y. Liao (2003). "The Application of the System Parameter Fusion Principle to Evaluation the Core Competence of the Corporation. "IEEE, pp.160-166. Perdomo-Ortiz, J., Gonz?鴣ez-Benito, J., & Galende, J. (2006). Total quality management as a forerunner of business innovation capability. Technovation. 26(10), 1170-1185. Porter, M. E. (1980). Competitive Strategy - Techniques for Analysis Industries and Competitors. New York: the Free Press. Perrini, F., Pogutz, S. and Tencati, A., (2006). Corporate social responsibility in Italy: state of the art. Journal of Business Strategies 23(1), 65-91. Robins, F. (2005). The future of corporate social responsibility. Asian Business & Management, 4, 95-115. Rowley, T. and Berman, S. L., (2000). A Brand new Brand of Corporate Social Performance, Business and Society Review, 39(4), 397-418. Reuben M. Baron and David A. Kenny (1986). The Moderator-Mediator Variable Distinction in Social Psychological Research: Conceptual, Strategic, and Statistical Considerations. Journal of Personality and Social Psychology, 1986, Vol. 51, No. 6, 1173-1182. "Ruth Alas, Ku Iliki Tafel, (2008). Conceptualizing the Dynamics of Social Responsibility: Evidence from a Case Study of Estonia, Journal of Business Ethics 81:371 – 385. Rumelt, R. P. (1984). "Towards a Strategic Theory of the Firm." in Competitive Strategic Management, R. B. Lamb, Eds., New York: Prentice-Hall Inc, pp.556-570. Sambamurthy, V., Bharadwaj, A., and Grover, V. (2003). "Shaping agility through digital options: Reconcetualizing the role of information technology in contemporary firms." MIS Quarterly, 27(2), 237-263. Sawers, J. L., Pretorius, M. W., & Oerlemans, L. A. G. (2008). Safeguarding SMEs dynamic capabilities in technology innovative SME-large company partnerships in South Africa. Technovation, 28(4), 171-182. Schumpeter, J. A. (1942). "Capitalism, Socialism and Democracy, New York: Harper & Brothers. Sundbo, J. (2001). "The Theory of Innovation". Review of Industrial Organization, Volume 18, Number 1, pp. 137-139(3) Selznick(1957). Leadership in Administration: A Sociological Interpretation. Sethi, S. P., (1975). Dimensions of corporate social performance: an analytical framework. California Management Review 17(3), 58-64. Szwajkowski, E. W. (1986). The myths and realities of research in organizational misconduct. Research in Corporate Social Performance and Policy, 9, 102-122. Greenwich CT: JAI Press. Sen, F. K. and W. G. Egelhoff (2000). "Innovative Capabilities of a Firm and the use of Technical Alliances." IEEE Transactions on Engineering Management 47(2): 174. Smith, K. (2002). ISO considers corporate social responsibility standards. The Journal for Quality and Participation, 25(3), 42. Steffen, B., & David, G. (2007). Innovation and the dynamics of capability accumulation in project-based firms. Innovation: Management, Policy & Practice, 9(3/4), 217. Teece, D.J., G. Pisano. (1994). The dynamic capabilities of firms: An introduction, Industrial and Corporate Change, 3(3):.537-556. Teece, D. J., G.. Pisano, and A. Shuen (1997). " Dynamic Capabilities and Strategic Management, " Strategic Management Journal, 18(7), .509-533. Teece, D. J., Rumelt, R., Dosi, G., & Winter, S. (1994). Understanding corporate coherence: Theory and evidence. Journal of Economic Behavior and Organization, 23: 1-30. Wilkens, T. T. (2004). Inside the black-box: analysing the generation of core competencies and dynamic capabilities by exploring collective minds: An organizational learning perspective. Management Revue, 15(1), 8-26. Wernerfelt, B. (1984). "A Resource-Based View of the Firm." Strategic Management Journal, 5, pp. 171-180. Waddock, S., Bodwell, C. and Graves, S., (2002). Responsibility: The New Business Imperative, The Academy of Management Executive, 16(2), 132-147. Williamson, P. J. (1999). Strategy as options on the future. Sloan Management Review, Spring, 117-126. Wilson, E. D. (1975). Sociology: the new synthesis. Cambridge, MA: Harvard University Press. Zahra, S. A. (1996), "Technology Strategy and Financial Performance: Examining the Moderating Role of the Firm's Competitive Environment, "Journal of Business Venturing, Vol.11 No.3, pp.189-219. Zahra, S. A., Neubaum, D. O. & Huse, M. (2000). "Entrepreneurship in Medium-size Companies: Exploring the Effects of Ownership and Governance Systems," Journal of

Management, Vol.26, No.5, pp.947-976. Zollo, M. and S. G. Winter (2002). "Deliberate learning and the evolution of dynamic capabilities," Organization Science, 13(3), 339 – 353. Zahra, S.A. & Pearce J.A. (1989). "Boards of directors and corporate financial performance :a review and integrated model," Journal of Management, Vol. 15, pp.291-334.