

A Study of International Industrial Networks Embedded Ness and Risk - The Case of Flat Glass Process Industry in Taiwan

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ABSTRACT

“ Industrial networks ” originate from the relation between interpersonal social networks, and extend to the connection of the horizontal and vertical relations between enterprises. For the last several decades, Taiwan enterprises have shown their particular competitive advantage by the operation relation of industrial networks internationally. Although there is the benefit of resource integration and risk diversification, the continuous development of industrial networks produces the structure of industrial network embedded ness; on the contrary, there are risks caused because resources can ' t be rapidly adjusted. According to this study, scholars haven ' t discussed the issues related to resources obtainment and risk evasion; therefore, this study plans to establish the relation between cause and effect of network risk consideration and unequal resources to provide the clear conduct logic of resources obtainment and risk evasion. In 2005, the first Flat Glass Process Area in Taiwan with the annual output value over NTD\$ 20 billion was established in Chung-hua Coastal Industrial Park; among which the international channel creates the annual output value over NTD\$ 1 billion with the strength of industrial networks that can ' t be minimized. This study takes the international Flat Glass Process Industry in Taiwan as the sample with 214 effective questionnaires and the retaking rate of 22.57%, the Structural Equation Modeling (SEM) of LISREL as the study method, and network embedded ness, network risk consideration as well as unequal resources as the dimensions to induce the interpretative SEM structure model. Academically, this study tests and verifies the relation between cause and effect of the unequal resources affected by the network risk consideration to enrich the research documents of industrial network embedded ness; practically, this study suggests giving consideration to both network relationship capital and risk consideration to reach the medium balance of unequal resources; therefore, the clear conduct logic is obtained in the process of resource integration and development to reach the goal of sustainable industrial network operation.

Keywords : Industrial Networks, Network Embedded Ness, Risk, Resources, and Structural Equation Modeling (SEM)

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