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Diversification Impact on Productivity and Performance Enhancement

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2004

Diversification Impact on Productivity and Performance Enhancement (JBD,Lee & Hall & Wingham)

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Dr. Diane Wingham



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Diversification, Productivity, Performance Enhancemen An International Examinati Jooh Lee, Ernest H. Hall, Jr. and Dianne Wingham¹

Introduction

changes to the manufacturing processes and syster Corporate diversification programs outline how and businesses, firms develop a pattern or strategy that manufacturing firms in the U.S. and Japan to link skilled workforce must be linked with a new growth production and resource leadership, the competitive product markets are being severely eroded. To press innovative expertise. However, because of desira important of which are existing manufacturing diversification programs build on internal strength plans to diversify in diversification efforts, known as a corporate diversifica-Collis, 2001). Therefore, the present study examines the diversification, and product diversification in their push As firms continue to diversify into new i the future. Well-design

The approach to developing a better und diversification from a market- and product-based pers the countries being studied is predicated on the belief of diversification has potential to significantly enha growth and longevity. It should be noted that it is exposed to the professor and chairman of the Manage Dept. of College of Business at Rowan University in Emest H. Hall, Jr. is associate dean and MBA program of the School of Business at the University of South Evansville; Dianne Wingham is on the faculty of

Business & Law at the University of New Castle, Austr

firm performance.

two countries being studied will exhibit different relationships among the variables being studied. Both product and market diversification are used to uncover any performance relationship differences that may exist on a national or country-specific basis. Based on previous research studies it can be argued that market diversification strategy appears to have similar levels of relevance to product diversification strategy in improving the performance of multi-national firms. However, the magnitude and direction of diversification observed in the study may differ by country. Therefore, it is important to present a comparative impact study across the two countries that will be studied, U.S. and Japan.

Literature Review

diversification. perspective and cross-cultural literature, that there are benefits to adopting both a long-term 2001; Riahi-Belkaoui, 1992; Tallman & Li, 1996). It is clear from the the current multi-national research findings (Li & Atuahene-Gima, uninformative, being more representative of historical literature than reliance on a single conceptualization is manifestly unilateral and which is usually associated with product diversification. Such an over been viewed from what may be called an American perspective, have been hampered. Diversification studies have for a long time the Japanese business growth slowdown from a global perspective effects on firm performance across countries. Studies on the impact of dynamic effect of changes in diversification strategies and their diversification literature that has not received adequate attention is the two decades (Dess et al., 1995). One potentially important topic in the that very little has been learned about diversification over the past conclusions can be drawn. The conclusion of a recent study suggests the fact remains that researchers are still arguing over what diversification. Although this relationship has been widely studied, relationship One of the most researched topics in the strategy literature is between firm performance and corporate approach to

Geringer, Beamish, and daCosta (2000) identified product diversity as a limited determinant of growth performance for Japanese manufacturing firms. It was also determined that the international diversity of sales had a negative impact on accounting performance, but a positive relationship with sales growth. Further, it was proposed that environmental variations affect strategic relationships. The

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resource-based theory of the firm suggests that quasiblated strategic capabilities help sustain competitive achigher performance (Teece, Pisano, & Shuen, 1997; Pandian, 1992). To make such competitive advantage over the long-term, it will be necessary to adopt a globa strategy and develop the research skills to become innovative (Porter, 1990). The importance of R&D in denecessary skills to maintain a firm's innovativenes accepted. Therefore, R&D has become a critical determining a firm's long-term success (Hitt et al., 1997)

It can be concluded from the past studies, that differences are related to the degree to which a firn portfolio is related to its *core businesses* (Rumelt, relationships provide the firm with opportunities to shacross different, but related businesses, within the boun company. Synergistic benefits may be derived from sucl allow for the more efficient exploitation of firm resource argued, should lead to higher levels of performance. I diversification may also be helpful in stabilizing the relationship (Kim, Hwang, & Burgers, 1989). With the interest in opportunities abroad, firms are recognizing reap the benefits of internationalizing their corporate straumplicit in this research is the belief that firms

Implicit in this research is the belief that firm nationalities will perceive and/or utilize diversification differently. Identification of these bi-national difference to diversification strategy will help to explain some of divergent outcomes in prior research studies. In advariety of differences between countries, it is argued the U.S. share geographical asymmetry, where Japanes find themselves increasingly confined by their existion markets due to the limited geographical size of the countries of the U.S. has a very large domestic market diversify, thereby suppressing the desire of U.S. firms international diversification. This asymmetrical relativesult in different countries viewing diversification differ

Hypotheses

The relationship between product and market d and firm performance of U.S. and Japanese firms is the first hypothesis. As has been previously outlined, conclusion of past research studies is that firms pur

diversification will outperform firms following a strategy of unrelated diversification. It is expected that product diversification will result in superior performance for firms pursuing related diversification regardless of the nationality of the firm. Since the measure of product diversification used in the current study is a uni-dimensional measure, a negative relationship between product diversification and performance is expected.

The results of initial studies suggest that multinational diversification will generally lead to an increase in firm profitability (Geringer et al., 1989; Kim et al., 1989). A positive relationship between multinational diversification and performance is based on several theories. First, multinational diversification will allow firms more opportunities to exploit economies of scope (sharing of assets among different lines-of-business) and economies of scale (due to larger quantities of production). Second, the skills and resources of the parent firm can be more fully utilized. Third, multinational diversification provides opportunities for firms engaged in business across international borders to exploit transfer knowledge, skill, and experience to newly developing markets which are not being adequately served. It is hypothesized that multinational diversification will have a positive impact on performance because of the economies of scale as well as the exploitation of international markets.

Hypothesis I_a . Product diversification will be negatively associated with firm performance for both U.S. and Japanese firms.

Hypothesis I_b : Market/international diversification will be positively associated with firm performance for both U.S. and Japanese firms.

A number of studies examined the joint effects of product and market diversification with respect to performance (Hitt, Hoskisson, & Kim, 1997; Geringer et al., 2000; Tallman & Li, 1996). Geringer and his colleagues (1989) empirically examined the effects of the interaction of product and market diversification on performance, but failed to find any significant effects. Kim (1989) also argued that the impact of product diversification on performance is contingent on the degree of multinationalization, particularly with respect to risk-adjusted performance measures. That is, product-diversified firms will outperform their counterparts when they are geographically diversified (Hitt et al., 1997). Tallman and Li (1996) reported empirical results indicating that the interaction effect of

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product and multinational diversity on performance controlling for the effects of firm size, leverage, and inclin a recent study of the interaction effect of product diversification on performance, Geringer and compirically demonstrated that limited product diversity manufacturing firms did improve short-term profit while manufacturing operations combined with limited protended to increase sales growth.

Hypothesis 2: The joint effect of product diverand market/international diversification performance will be positively associated performance for both U.S. and Japanese firms. In general, product and market diversification.

In general, product and market diversification, along related lines, is expected to result in synergies t firms in lowering their overall cost of doing business. T may be the result of economies of scale or scope. One t that has been widely identified as a critical strategic res (Baysinger & Hoskisson, 1989; Hitt et al., 1991; Hitt Baysinger and Hoskisson (1989) have provided the in evidence that suggests that diversification strategy may affect R&D intensity in large multi-product firms improve the efficiency of R&D activity through because of the exploitation of economies of scope. He recognized that there might be a tendency in large M-division managers to reduce expenditures in both R& product and market diversification (Baysinger & Hoskii In early theoretical work Cayes (1982)).

In early theoretical work, Caves (1982) innovative firms are more eager to launch into foreign geographic expansion) to increase or at least maintain Utilizing resource-based theory, firms engaging in diversification should be able to leverage existing applying them in new international markets. There within domestic markets or across international bout engaging in diversification will have more opportunutilize exiting resources and thereby, increase profitable et al., 2000). Thus, market/international diversification more efficiently utilize its resources across countries.

Hypothesis 3_a: R&D intensity will moderate (neelationship between product diversification as performance for both U.S. and Japanese firms Hypothesis 3_b: R&D intensity will moderate (p

performance for both U.S. and Japanese firms. relationship between market diversification and

Methods

(1995-1999). Data for Japanese firms were gathered from the Nikker data are arithmetic averages over the five-year period in question impact of volatile exchange rates on the final outcomes. The selected 405 firms from each of the two countries over the five-year period million and above \$47,500 million) the sample was reduce to 430 U Annual Corporation Report and Toyo Keizai's Japan Company 1995-1999. The samples were analyzed separately to avoid the S. firms and 450 Japanese firms. The final sample was comprised of After excluding significant outliers from the sample (below \$280 Japan (rankings were based on sales revenues for the year 1999). 600 publicly listed manufacturing firms from the United States and The initial sample for the current study started with the top

Measurement of Variables **Product Diversification**

product diversification was operationalized using the Herfindahl commonly used continuous measures of diversification. Therefore, product diversification, we chose to limit our study to the most **Diversification.** Although there are a variety of different measures of index (Geringer et al., 2000): and Market/International

product group i. Therefore, product diversification in the company's portfolio. indicates the relative importance of each business segment where: Pi = the proportion of a firm's sales reported in Product Diversification = $1 - \sum (Pi^2)$

diversification index represent firms that are more actively engaged in Multinational diversification represents the relative portion of a the following equation: foreign trade. Multinational diversification (MLDVSF) is reflected in (Geringer et al., 1989). Firms with higher values on the multinational firm's revenues derived from foreign operations and export volume proportion of a firm's sales revenue derived from overseas markets Market (or international) diversification was measured as the global market diversification by export activity).

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Market Diversification =FS_i / TS_i where

 FS_i = sales volume of foreign trade by export in yea

 TS_i = total sales of the firm in year i

both accounting-based and market-based measures of of research studies in the diversification literature, we comparability of the results of the current study across Performance Measures. In an attempt to

OPROS while market-based performance measures in The accounting-based performance measures include Q and Sales Growth. The measures of firm performa

- used are calculated as follows
- Tobin's Q = (Market Value of Equity OPROS = Operating Income / Total Sales

OPROA = Operating Income /Total Assets

- Sales Growth = (Net Sales $_t$ Net Sales $_{t-1}$) Value of Preferred Stock + Total Debt)/To
- resource variables that were used in the present study in and performance with respect to R&D intensity. variables may have an impact on the linkages between

important to include some strategic resource variables

R&D intensity on diversification and firm perfor

Control Variables. To examine the interact

- R&D Intensity = Research and Expenditures/Total Sales
- Firm Size = Natural Log of Total Sales Re

Advertising Intensity = Advertising Expe

- Debt Capital Intensity = Total Assets/Total Sale Leverage Book Value
- Market Risk = Standard Deviation of N Debt/Shareholders' Equity

Return (by monthly closing stock price)

Results and Discussion

Descriptive Statistics and Intercorrelations The results of the regression analysis can be for

performance and (2) the moderating effect of R&D ir follows: (1) the direct relationships between diversific diversification/performance relationship with respect to 1 (U.S. firms) and 2 (Japanese firms) and can be s

performance across the two countries being studied. explaining the relationship between diversification and corporate indicating that the multiple regression models were useful in both U.S. and Japanese firms were highly significant (p<.001), regressions are presented in Tables 1 and 2. All regression models for performance measures for each of the two samples. The results of the

exhibit a negative correlation with R&D intensity among U.S. firms, performance irrespective of the performance measures used for both market diversification is uniformly and positively related to firm and positive relationship with all performance measures. Third, performance (p<0.05) while the Japanese sample reveals a consistent diversification and performance with respect to accounting-based reflects a generally negative relationship between product along both product and international lines. Second, the U.S. sample results suggest that R&D efforts are correlated with a global strategy found a positive association for both U.S. and Japanese firms. These but is positively correlated with Japanese firms. However, when we That is, Japanese firms are more likely to be active in diversifying than the U.S. sample, for both product and market diversification. First, the Japanese sample shows a greater degree of diversification in the current study some interesting findings should be highlighted across countries. looked at the effects of R&D intensity on market diversification, we U.S. and Japanese firms. Fourth, product diversification tends to In analyzing the descriptive statistics for the variables used

with market performance measures for both U.S. and Japanese firms. product diversification reflects a significant and positive relationship two accounting-based performance measures in the two samples, firms. Although the results show different signs with regard to the positively associated with all performance measures for Japanese with the exception of OPROA (p<0.10), product diversification is market-based measures (Tobin's Q and market growth). However, OPROS), but positively related when performance is measured using associated with accounting-based performance only (OPROA, firms, product diversification is the performance measure used. For instance, when looking at U.S supported. The results varied across countries and were dependent on (Tables 1 and 2) indicate that hypothesis H₁ was not uniformly Product Diversification and Performance. The results significantly and negatively

(to test for a curvilinear relationship), the resulting relationships were When we look at the product diversification index squared

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respect to most accounting-based performance measu OPROS). Contrary to U.S. firm results, there is a positive between product diversification and performance, par mixed. For U.S. firms, there is a negative curvilinea Table 1

Results of Regression Analysis: US Accounting-based Performance OPROA OPROS Marke

Tobin's Q

+P<10· *1	^a For this model, n = 405. Values are standardized regression	F	\mathbb{R}^2	Market Diversification	Product Diversification &	Market Diversification	Product Diversification	R&D Intensity x	Effects	Interaction (Moderating)	Market Diversification	Product Diversification x	Market Diversification	Product Diversification	R&D Intensity	Main Effects	Capital Intensity	Risk	Advertising Intensity	Debt Leverage	Firm Size	Control Variables	Independent Variable
* P < 05:	. Values are s	11.52***	0.302	0.126*		0.046	0.137*				0.153**		0.169**	-0.185**	0.189**		-0.320***	-0.162**	0.028	-0.148**	-0.112*		OPROA
** P < 0.01	tandardized r	22.20***	0.310		0.118*	0.102*	0.236**				0.158**		0.205**	-0.122*	0.214***		0.167**	-0.216**	0.082*	-0.084*	-0.041		OPROS
*	egressio	13.21	0.321		0.153	0.204	0.161				0.051		0.123	0.134	0.257		0.108	-0.038	0.024	-0.103	0.307		Tobin's

measures of performance to a greater extent than do Japanese firms are more likely to rely on sales a of the regression analyses it can be concluded the based measures of performance (OPROA, OPROS). I U.S. cohort reflected a tendency to make use of m growth (p<0.05) only for Japanese firms. It may function between product diversification and OPRO

diversification is differently associated with varie

performance across countries and (2) there is evidence of a curvilinear relationship between performance and product diversification with respect to short-term performance measures for the U.S. firms and sales related performance measures for Japanese firms. Thus, our proposed hypothesis (H1a) was partially supported, particularly with respect to accounting-based performance for both countries.

Market Diversification and Performance. With respect to the impact of market/international diversification on performance, the results show a positive relationship between market diversification and most performance measures for both U.S. and

Table 2 Results of Regression Analysis: Japanese Firms^a

Performance. For combined effects of product dive

	HIrms	ns		
Independent Variable	Accounting-based Performance OPROA OPROS	ed Performance OPROS	To	Market-based Performance bin's Q Market Growth
Control Variables				
Firm Size	0.071	0.054	0.132**	0.203**
Debt Leverage	-0.126*	-0.120*	-0.140**	-0.017
Advertising Intensity	0.120*	0.178**	0.023	0.203**
Risk	0.038	0.053	-0.029	0.198**
Capital Intensity	-0.316***	-0.254***	-0.174**	-0.057
	-			
Main Effects		-		
R&D Intensity	0.089*	0.287***	0.206**	0.298***
Product Diversification	0.090*	0.212**	0.122*	0.214**
Market Diversification	0.129*	0.247***	0.213**	0.276***
Product Diversification x Market Diversification	0.089*	0.201**	0.128*	0.204**
Interaction (Moderating)				
R&D Intensity x				
Product Diversification	0.076	0.090*	0.085*	0.131*
Market Diversification	0.129*	0.213**	0.109*	0.210**
Product Diversification &		٠		
Market Diversification	0.087*	0.101*	0.205**	0.215**
\mathbb{R}^2	0.231	0.314	0.310	0.324
F	4.59***	6.58***	7.35***	12.57***
a Earthia madal n = 105	Value are standardized recognism coefficient	tondondinad .	or and an ar	off ciont

* For this model, n = 405. Values are standardized regression coefficient + P < .10; ** P < .05; ** P < 0.01; *** P < 0.001

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Japanese firms. A curvilinear function was market/international diversification for both U.S. and J. However, curvilinear functions between market diver performance were more clearly evident in both the U.S. samples for international diversification. Such findings with previous studies that have uncovered a curviline between international diversification and performanc 1997; Gomes & Ramaswamy, 1999), indicating that in of multinational diversification will bring significan benefits up to a certain optimum level beyond which be decelerate while costs accelerate. Thus, hypothe supported.

Joint Effects of Product and Market Dive

showed a positive and significant effect only OPROA (p<0.10). However, the interaction effect interaction effect was consistently positive and depending on which measures of performance wo both U.S. and Japanese firms although there were so product- and market-diversification was significant a market diversification on performance, the intera across countries may reveal idiosyncratic persp countries. For U.S. firms, the results seem to be in supported. The difference in the relationships of Japanese firms with respect to most performance m market diversification on performance. Also, the pres previous studies (Geringer et al., 1989; Tallman & performance (p<0.01) measures. Therefore, hypot unrelated, entropy measure vs. Herfindahl index). operationalize product diversification (for exampl in part be due to the different diversification me failed to find any significant interaction effects betwee Moderating Effect of R&D Intensity on th

Between Product and Market Diversification and Tables 1 and 2 present the results of the moderating intensity on the diversification/performance relationsl Japanese firms (H3_a & H3_b). Adding the multiplicativ R&D intensity by product diversification in the regree U.S. and Japanese firms resulted in significant equation indices of performance measures. For U.S. firms

between product diversification and R&D intensity was significant and positively related to all performance measures. However, the interaction between product diversification and R&D intensity was positive and significantly related to only one market-based performance measure (market growth) for the Japanese firms. Contrary to our proposition, the moderating effect of R&D intensity on the relationship between product diversification and performance varied with the different indices of performance across bi-national firms.

with interaction terms contributed significantly to the prediction of performance across both samples. Furthermore, the regression model performance was moderated by R&D intensity for various indices of combined effect of product and market diversification supported among both U.S. and Japanese firms. In addition, the significant effects for all performance measures. Thus, hypotheses firm performance by diversification for both U.S. and Japanese firms intensity on the market-diversification/performance linkage was H3a & H3b, which proposed a positive interaction effect of R&D Japanese firms, R&D intensity by market diversification yielded performance measures except with OPROA for U.S. firms. For significant at the p < 0.01 level and positively associated with all diversification and performance for both U.S. and Japanese firms positive moderating variable on the relationship between market product diversification and performance, R&D intensity served as a The interactions of R&D intensity by market diversification are In contrast to the moderating effect of R&D intensity or

Conclusions, Limitations, and Issues for Future Research

In summary, our results indicate that product diversification and multinational diversification have differing impacts on corporate performance, depending on the country being studied. The major findings of this study suggest that product diversification has a detrimental impact on corporate performance only with respect to U.S. firms using accounting-based measures of performance. Japanese firms, on the other hand, reported positive relationships between firm performance and product diversification irrespective of which performance measures were used. However, the strategic impact of product diversification on corporate performance may vary over time, rather than being fixed (Geringer et al., 2000). When

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mixed depending on the country and the measure of being used. These results may be due, in part, to performance indices employed in the present study country-specific differences in economic, political, environments.

diversification was measured as market diversification

may help explain the differences observed between advantages for market diversification. Such idiosyncra governance systems (MITI for example) may offer manage diversification efficiently from within the strategic alliances (internal and external) may enhance advantage within foreign markets. More importantl markets, could be a major strategy for gaining on the foreign market, as opposed to developing electronics, and precision and measurement products). penetration with high-tech oriented products (such a competitive powers by strategically focusing on ex may be that Japanese multinationals are attempting superior role of market diversification in the case of . diversification on firm performance, one possible expl Japan. Nationally peculiar and conglomerate-based Japan samples. In concert with the insignificant effect

current study suggest that such a conclusion ma returns/gains, with the exception of sales growth, wa diversification. However, it was concluded that the both U.S. and Japanese investors could benefit from seem to suffer the ill effects of increased product dive would also be useful to explore the reason why Japane relationships exist should be the subject of further in premature, and that evaluated to ensure their potential for increasing perfor export activities. These diversification strategies need firms would also benefit by increasing their foreign on corporate performance. There are preliminary indica economies of scale and scope, as well as having a be diversification appears to be a logical strategy in or the structural and cultural features of Japanese firms the U.S. firm do. The best explanation for this phenome for U.S. investors than for Japanese investors. The In a previous study, Eun and Resnick (1994 understanding why such c

relationships of these variables should be addressed in future was not directly addressed. Further investigation into the causa did not fall within the parameters of the current study and, therefore Although the issue of causality is of interest to all strategy scholars, it future strategic alliances between the two countries under review viability before being used. It is understood that as we continue to product- or market-based should be carefully evaluated to ensure their economic context. Indeed, diversification strategies, whether market/international) and firm performance with respect to various learn more about these economies, that this information may lead to indices of performance for two important countries in the global relationships between two major types of diversification (product and This study was an exploration of the basic nature of the

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