# العلاقة بين الكفاءة الذاتية الريادية و نجاح تطوير منتج جديد: الدور الوسيط للتوجه الريادي

# د/ أحمد السطوحي مدرس إداره الأعمال بكليه التجاره - جامعه المنصورة

الملخص:

تهدف الدراسة الحاليه لفحص العلاقة بين الكفاءة الذاتيه الريادية و نجاح تطوير منتج جديد من خلال توسيط التوجه الريادي, تم جمع بياتات الدراسة من خلال قاتمه استقصاء وجهت إلى 200 من مديري المطاعم بمدينة المنصورة. واستخدام الدراسه أسلوب تحليل المسار الخنبار فروض الدراسه من خلال تطبيق برنامج (Warp (P.L.S 6.0) و أشارت نثاتج الدراسه إلى وجود تـأثير معنوي المكفاءة الذائيه الريادية على كل من التوجه الريادي و تجاح تطوير منتج جديد. كما توصلت الدراسه إلى وجود علاقة غير معنويه بين الكفاءة الذاتيه الريادي.

كلمات افتتاحية:

الكفاءة الذائيه الريادية التوجه الريادي , نجاح تطوير منتج جديد

Intrepreneurial self-efficacy and new product development access: the mediating role of entrepreneurial orientation

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#### bstract

his paper examined the relationship between entrepreneurial self-efficacy (ESE) id new product development success (NPDS) through the mediating role of itrepreneurial orientation (EO). Data were collected from 200 restaurants managers Mansoura city-Egypt using a questionnaire. Path analysis technique was inployed to test the research hypotheses using Warp PLS version 6.0. The research sults showed that entrepreneurial self-efficacy significantly influences both trepreneurial orientation and new product development success. Furthermore, ere was a non-significant indrect relationship betweem entrepreneurial self-efficacy d new product development success via entrepreneurial orientation.

eywords: Entrepreneurial Self-efficacy; Entrepreneurial Orientation; New oduct Development Success.

Introduction

nall and medium-sized enterprises (SMEs) have been identified as significant nerators of economic development (Acs et al., 2008). One of the primary means which SMEs accomplish this important task is the introduction and marketing of novative products and services (Radas et al., 2009; p. 438). For more than half a ntury the literature has proposed the importance of innovation as a central imponent of successful capitalist endeavors (Burns & Stalker, 1961; Schumpeter, 194). However, review of foodservice innovation management is a much more cent assumption (Jones, 1996; Feltenstein, 1986). The factors affecting innovative odservice products are multidimensional and complex as customers' preferences of food patterns that are constantly changing (Ottenbacher & Harrington, 2009a). novation is also a central component of entrepreneurship, which is also important ten researching locally owned restaurants since the owners of these enterprises are so called entrepreneurs (Jogaratnam, Tse, & Olsen, 1999). The entrepreneurship eory of innovation recognizes entrepreneurs through the introduction of innovation a major driver of economic growth (Schumpeter, 1952).

idies of entrepreneurship in tourism and hospitality have focused on trepreneurial self-efficacy (Hallak, Assaker, & Lee, 2015; Hallak, Assaker, & Connor, 2012; Hallak, Brown, & Lindsay, 2012; Hallak, Lindsay, & Brown, 11). Tourism entrepreneurs with high entrepreneurial self-efficacy believe in their trepreneurial capabilities, minimizing their self-doubt that allows them to pursue trepreneurial opportunities, to be more persistent in overcoming failure and to be are positive in facing challenges (Chen et al., 1998; Hallak et al., 2011).

sinly, entrepreneurial orientation is imperative to maintain a constructive and pactive emphasis on innovative new products that support future and ambiguously fined customer requirements (Atuahene-Gima & Ko, 2001; Covin, 1991; Slater & rver, 1995). In fact, success tends to be determined by the successful performance the individual tasks themselves or, more precisely, the actions and orientations of company (Covin & Slevin, 1989). Entrepreneur orientation, in particular, has an commonly used to examine such relationships (Lumpkin & Dess, 1996); rereas compared to analyses of entrepreneurial self-efficacy, studies still do not derstand completely the long-term success consequences of the entrepreneurial entation (Covin & Lumpkin, 2011). While it is increasingly accepted that repreneurial self-efficacy and entrepreneurial orientation can perform significant es in business performance attempts to directly identify the empirical effects of repreneurial self-efficacy and entrepreneurial orientation are rare still (McGee & terson, 2019).

In previous studies have examined the direct and indirect impacts of entrepreneurial effections and entrepreneurial orientation on new product development success. Therefore, regarding the importance of new product development its role in helping staurants to sustain their product portfolio's ability to compete and thus leverage impetitive advantage. Hence, the two research questions are: (1) what are the direct fects of entrepreneurial self-efficacy and entrepreneurial orientation on new oduct development success? (2) To what extent does entrepreneurial orientation ediate the relationship between entrepreneurial self-efficacy and new product evelopment success in foodservice SMEs? In order to answer these questions, the irrent study aims to investigate the direct and indirect effect of entrepreneurial self-ficacy on new product development success via entrepreneurial orientation.

## . Literature Review and Hypotheses Development

ne study adopts the following conceptual framework, as shown in Figure 1.

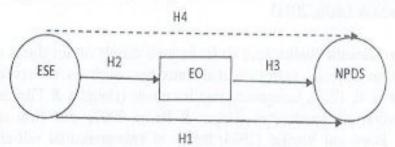


Figure (1): Conceptual Framework

## 1. Entrepreneurial self-efficacy and new product development success

If-efficacy refers to the explicit confidence of individuals in their own capabilities d skills to execute a specific task (Bandura 1986). Individuals generally avoid iks for which they have low self-efficacy, while on the flipside they are attracted d work better on tasks where they feel they have greater self-efficacy (Forbes 05). Entrepreneurial self-efficacy refers to a person's belief in his / her ability to complish entrepreneurial tasks effectively (Chen et al., 1998). These activities slude developing new product and growth opportunities, creating an innovative nosphere, establishing investor partnerships, defining key goals, resolving expected problems, and developing vital human resources (De Noble et al., 1999).

trepreneurial self-efficacy is emerged from the theory of self-efficacy, which was alf based on theory of social learning (Bandura, 1997). The level of self-efficacy luences the motivation, commitment, determination of individuals in the face of hallenges, emotional stability, and stress levels (Bandura & Locke, 2003; Segal, lorgia, & Schoenfeld, 2005). Self-efficacy theory assumes that when a person elieves that through their actions they can achieve a desired outcome, they are more kely to respond and achieve that outcome (Bandura, 1997). As a result, a high level f self-efficacy increases the individual's perseverance, leading them to achieve etter results in their pursuit of success (Segal et al., 2005). As Chen et al. (1998: p. 01) suggest, individuals with strong belief in their entrepreneurial self-efficacy are kely to identify difficult situations as incentives such as income, opreciation and psychological satisfaction (Hisrich & Brush, 1984); given that otivated individuals who feel self-efficacious, are more likely to be innovative and spect success in their work (Spreitzer, 1995). New product development is ommonly defined as a key source of competitive advantage and essential to arketing strategies, allowing businesses to fulfill consumer needs and desire to be ore successful than their competitors (Verona, 1999). Therefore, new product evelopment performance depends mainly on the ability of companies to create conomic as well as environmental and social benefits for consumers and other akeholders (Swan & Luchs, 2011).

ntrepreneurship scientific studies have so far focused mainly on the direct effects self-efficacy on different entrepreneurial outcomes, such as entrepreneurial tentions (Chen et al. 1998); intrapreneurship intentions (Douglas & Fitzsimmons )12); identification of opportunities (Ozgen & Baron 2007); and firm success orbes; 2005). Boyd and Vozikis (1994) theory of entrepreneurial self-efficacy dicates that entrepreneurial self-efficacy can also moderate the relationship tween antecedents and entrepreneurial behavior. The findings of empirical alysis by Hmieleski and Corbett (2008) showed that entrepreneurial self-efficacy d a positive moderating impact on the association between the improvisational itude of an entrepreneur and the success of a company. In addition, the trepreneurship theory of innovation (Schumpeter, 1952) indicates that trepreneurial firms evolve and thrive through the entrepreneur's ability to nstantly innovate to lead or to respond to changes in competitive environments volving customers and competitors (O'Dwyer, Gilmore, & Carson, 2009). perefore, a key driver of the business performance could be the restaurant trepreneur's ability to develop new product and market opportunities (Lee, Hallak, Sardeshmukh, 2016). However, an investigation into how entrepreneurial selficacy influences the new product development success of foodservice firms nains unexplored. Drawing on empirical evidence and self-efficacy theory andura, 1997), the following hypothesis is presented:

I<sub>I</sub>: Entrepreneurial self-efficacy has a significant positive effect on new product evelopment success.

Interpreneurial self-efficacy and entrepreneurial orientation over the past few decades, two streams of research have arisen to investigate the ariation in business success, namely entrepreneurial self-efficacy and interpreneurial orientation (McGee & Peterson, 2009). There is strong evidence that interpreneurial orientation remains as a vivid research theme that inspires discussion of frequent attention by scholars (Martens, Lacerda, Belfort, & Freitas, 2016; fales, 2016). Entrepreneurial orientation refers to strategic processes that provide impanies with the foundation for entrepreneurial decisions and actions (Rauch et 2009; p. 762) and include outcomes and management-related preferences, leologies and attitudes as articulated by top-level managers of a company (Covin, reen, & Slevin, 2006). Based on the conceptualization of Miller (1983) and as camined in the Covin and Slevin (1989) instrument, the construct of attrepreneurial orientation is most commonly conceptualized by the ability and illingness of a firm to:(1) innovate (innovativeness), (2) take action in anticipation changes (pro-activeness), and (3) take chances (risk taking).

elf-efficacy, primarily entrepreneurial self-efficacy, has drawn growing interest as search indicates that the confidence of a person in their ability to perform fectively affects their decision to start up a new venture (Chen, Greene, and Crick 198; Krueger and Brazeal 1994; McGee et al. 2009). The connection between trepreneurial self-efficacy and entrepreneurial career opinions has been ecifically explored by an extensive body of research in the area of trepreneurship (Wilson, Kickul, & Marlino, 2007). Boyd and Vozikis (1994) oceed to assume that persons with greater levels of entrepreneurial self-efficacy in e early phases of career building will have higher entrepreneurial aspirations, and at those with higher self-efficacy and higher ambitions will have a higher telihood of being engaged in entrepreneurial activity later in life. Evidence ongly indicates that the entrepreneurial self-efficacy degree affects the decision to art up a new venture (Chen, Greene, & Crick, 1998; McGee et al., 2009). Thus, sed on the above discussions, this study suggests the following hypothesis. 2: Entrepreneurial self-efficacy has a significant, positive direct effect on trepreneurial orientation.

3 Entrepreneurial orientation and new product development success itrepreneurs have a significant influence on small business orientations, strategies, d success (Hallak et al., 2011). This influence derives from the claims that the nall business enterprise is an expansion of the person in charge and the

idependent entrepreneur is considered to be the company (Lumpkin & Dess, 1996: . 138). Which is why, understanding the role of the entrepreneur in developing ompany-level innovations is important (Hadjimanolis, 2000).

cholars believe that entrepreneurial orientation leads to better performance because ompanies with such an orientation are better prepared to deal with fast changing ynamic environments shorter product life cycles and increased competitiveness Kreiser, Marino, & Weaver, 2002; Tang et al., 2008; Wiklund & Shepherd, 2003). ome studies showed the importance of these dimensions to entrepreneurial success. movative companies may generate economic performance by developing and stroducing new products services, and technologies (Wiklund et al. 2009). Through stroducing and launching these innovations proactively, companies can build and reserve their competitive advantage (Zahra & Covin, 1995). And by taking bold ad decisive measures to leverage opportunities, companies can produce sustainable. ng-term growth (Lumpkin & Dess 1996). Entrepreneurial orientation is secifically expressed in the entrepreneurial approach and has a direct impact on rm success (Sapienza & Grimm 1997). Entrepreneurial orientation can be viewed strategic entrepreneurial processes used by key decision-makers to implement the ganizational objective of their business, preserve their vision and build impetitive advantage (Rauch et al. 2009; p. 763).

oreover, recent research's theoretical and empirical claims converge on the emise that small businesses profit from an entrepreneurial orientation (Rauch et ., 2009). In addition, Wiklund (1999) suggests that efforts to increase trepreneurial orientation could be beneficial for small firms because a positive lationship between entrepreneurial orientation and firm performance has been rified. The entrepreneurial orientation of a firm is simply a reflection of its ternal culture, which promotes creativity and enables the company to introduce d receive the rewards of successful innovations (Madsen et al., 2007; Zahra, 05). Extensive research has shown that companies with an entrepreneurial ientation are less likely to be bureaucratic or constrained by technical inertia that nders new product development ideas from being implemented (Chandy and llis, 2000). Entrepreneurial orientation has also been proven to have a significant ect on new product development results (Danneels and Kleinschmidt, 2001; Li et , 2008a) by developing products that precipitate customer needs and consequently anging consumer behaviors (Berthon et al., 1999). Therefore, this study proposes following hypothesis.

 Entrepreneurial orientation has a significant, positive direct effect on new aduct development success. .4 The moderating role of entrepreneurial orientation

ntegrating H1, H2 and H3 arguments, this study suggests that entrepreneurial rientation acts as a mediator in the relationship between entrepreneurial selfficacy and new product development success. This hypothesis is founded on the temise that entrepreneurial self-efficacy strengthens attitudes strepreneurial orientation, and in consequence, entrepreneurial orientation is vorably connected with the new product development success. Therefore, this udy adopts the following hypothseis.

4: Entrepreneurial self-efficacy has a significant positive indirect effect on new

oduct development success through entrepreneurial orientation.

. Research Design

1 Sample and data collection

he number of restaurants in Mansoura city- Egypt 464 restaurants according to hamber of Commerce records in Dakahlia Governorate. Saunders et al. (2009) ated that the appropriate sample size depends on the margin of error, the infidence level, and the population size. This study used a margin error equals 5%, confidence level of 95%, and the size of the society ranges between 400 and 500, is requires a sample size between 196 and 214. A back translation method was aployed to confirm the consistency of the real meaning of each item in the original estionnaires. Then, a pre-test through using 30 questionnaires were applied to lidate the questionnaire. 250 questionnaires were delivered to the restaurants anagers. 200 out of 225 questionnaires were valid (response rate = 90%).

) test the non-response bias, Armstrong and Overton (1977) mentioned that the rly respondents should be compared to the late ones. T-test confirmed that there is significant difference between early and late responses. Therefore, non-response as is not an issue. Furthermore, Podsakoff, et al. (2003) recommended that the mmon method bias is tested using Harman's one-factor test, which is employed nen many deviations may be explained by a single variable. The findings showed at there is no common variable bias appeared in the un-rotated factor.

2 Measurement development

I the constructs were measured with a Likert-type 5 point scale (5 = strongly ree, to 1 = strongly disagree). To assess entrepreneurial self-efficacy, this study ed an 11-item scale of the Chen et al. (1998) that is recently used by Prodan and novsek, (2010). Restaurants managers specified how they fit into each statement out entrepreneurial self-efficacy. This scale is more based on capturing the selfa staurant achieves the desired outcomes to create and introduce a new menu item to the marketplace in terms of degree of customer satisfaction, sales and profits, or rerage market share of the restaurant. In addition, the contribution to the overall screens into the restaurant.

## . Model Analysis and Results

th analysis is employed to test the research model using partial least squares (PLS) model. Warp PLS version 6.0. According to Hair et al. (2010: p.98), PLS builds on a set of inparametric evaluation criteria to assess measurement and structural model results. The tputs are grouped into two models named the measurement and structural model as llows.

#### 1 The measurement model

ne measurement model is used to assess the instruments' quality in terms of item factor adings, internal consistency and discriminant validity. Table 1 presents the measurement odel. All constructs are reflectively measured as first-order factors. The items loadings: ranging from 0.65° to 0.830 (p<0.001). For Cronbach's alpha (α) and composite iability (CR), Hair et al. (2010) suggest that α and CR values should be at least 0.60 to be iable. The values of α and CR are > 0.70 for different constructs. This clearly implies it the measurement model is reliable. Finally, to evaluate the convergent validity, the rerage Variance Extracted (AVE) is used. Fornell and Larcker (1981) recommend that /E value should be at least 0.50. The AVE values are greater than 0.50 for all constructs, ese results indicate an adequate convergent validity.

Table 1: Measurement model

istructs	Loading	Cronbach's Alpha (α)	Composite Reliability (CR)	Average Variance Extracted (AVE)
epreneuria)	self-efficacy (ESE)	0.841	0.888	0.614
17	0.691			
8	0.830		and sesperations	
9	0.828	LILLY STREET STREET	Professional Control	
10	0.784	Lagher of	Scotting of the second	n rout

E11	0.776			0.000
repreneurial Orientation (EO)		0.600	0.786	0.553
1	0.805			
2	0.765		1 1 1 1 1 1 1 1	
7	0.652	100		0.507
w Product Development cess (NPDS)		0.650	0.809	0.587
DS 2	0.768			
DS 3	0.708			
DS 4	0.818	41110-1		

able 2 showed the correlations and discriminant validity. The bold numbers in the agonal show the square root of AVE while the numbers below them show the rrelation coefficients. The square root of AVE for each construct is greater than e variance shared with the remaining constructs. Therefore, all measures adopted this study are valid and internally consistent (Henseler et al., 2009).

Table 2: Correlation matrix and discriminant validity

	ESE	EO	NPDS
ESE	0.783	0.182	0.152
EO	0.182	0.743	0.276
NPDS	0.152	0.276	0.766

## 2 The Structural Model

ble 3 showed the findings related to testing the study's hypotheses. Effect sizes (f2) were iployed to evaluate the extent to which independent variables affect the dependent riable. The following formula was used to estimate the effect size for the path efficients:  $f^2 = [R^2_{included} - R^2_{excluded}] / [1-R^2_{included}]$  (Chin, 2010). The effect sizes should 0.02, 0.15 and 0.35 for small, medium and large effect sizes, respectively (Lew & nkovics, 2013; Cohen, 1988).

e results showed that the effect sizes of the relationship between ESE and NPDS; ESE 1 EO; EO and NPDS are small (f2 value = 0.04; 0.06; 0.07; respectively) where the ect size of the indirect association between ESE and NPDS via EO is weak (f2 value=

Table3 Path coefficients for the research model

Hypotheses	Path coefficient	Effect size	Results
H1: ESE→ NPDS	0.169 (0.007)	0.04	Supported
H2: ESE→ EO	0.241(0.001)	0.06	Supported
H3: EO → NPDS	0.236(0.001)	0.07	Supported
H4: ESE→ EO→ NPDS	0.057 (0.125)	0.01	Rejected

1 terms of testing the research hypotheses, the path coefficient for the direct effect f ESE on NPDS is significant ( $\beta$  = 0.169, p < 0.007). ESE is significantly and ositively associated with EO ( $\beta$  = 0.241, p < 0.001) whereas EO positively affects PDS ( $\beta$  = 0.237, p < 0.001). Finally, EO did not mediate the relationship between SE and NPDS ( $\beta$  = 0.057, p < 0.125). Therefore, H1, H2 and H3 are accepted but 4 is rejected.

### . Discussion

his study examined the direct link between entrepreneurial self-efficacy and new oduct development success, using entrepreneurial orientation as a mediator. The udy's results indicated that entrepreneurial self-efficacy is significantly and ositively linked to new product development success (H1). It is evident that staurant managers with high levels of entrepreneurial self-efficiency trust their sility to achieve high performance levels, and set higher and more challenging oals. This motivates them to work hard to identify and generate more opportunities id support them as well in ways that increase the capacity of their restaurants to cel in innovating a superior new menu-items (i.e., characterized by high quality, eed-to-market, and cost efficiency). Thus, it is critical for restaurant managers to instantly develop new products and market opportunities through innovation tegration as it contributes the most to improving restaurant performance compared other rivals.

the second hypothesis (H2) assumed that entrepreneurial self-efficiency would have significant, positive direct impact on entrepreneurial orientation. The study's sults have supported this hypothesis. Considering the complexity of trepreneurial ventures, a high degree of self-efficacy is critical throughout the tire cycle of the endeavor. In other words, entrepreneurs with higher trepreneurial self-efficacy are more effective in their entrepreneurial pursuits than use with lower entrepreneurial self-efficacy. Interestingly, the study revealed that ople who have started up a new venture have a higher degree of entrepreneurial if-efficacy.

I 3 proposed a direct positive relationship between entrepreneurial orientation and ew product development success. This was supported by the study's results. Results aggest that restaurants that improve their entrepreneurial orientation enjoy better verall new menu-item performance (i.e., higher new menu-item customer atisfaction, sales, and profits), which in turn would lead to boost in their overall estaurant performance. Conceptualizations of entrepreneurial orientation as a rategic managerial stance explain how restaurants consider businesses 'managerial proaches to drive their restaurant entrepreneurial behavior and in turn new product evelopment success. More specifically, focusing on the decision-making chniques, practices and decision-making patterns that managers use to pursue new oportunities into the market and additional management considerations beyond movation, pro-activeness and risk-taking enhance the product innovation erformance outcomes (new menu-item & market entry).

onsistent with Hypothesis 4, this study found that entrepreneurial self-efficacy has non-significant indirect effect on restaurant new product development success via trepreneurial orientation. This model only confirms the direct relationships tween the research variables. These findings provide new knowledge at improves our understanding of the mechanism by which entrepreneurial self-ficacy affects new product development success in restaurants. Restaurant anagers with high levels of entrepreneurial self-efficacy have more belief in their elity to start up a new venture and take bold and decisive measures to leverage aportunities and produce sustainable, long-term growth, which in turn promotes the enstant identification of new ideas leading to greater capacity to develop new enu-items and exploit market opportunities.

latively greater likelihood of new product development success (i.e., efficiencies, fferentiation advantage) and guiding the business to better performance. The sults found empirical evidence supporting the benefits of adopting an trepreneurial orientation on new product development success. This is an credibly important finding because adopting a strategic approach, such as trepreneurial orientation, can be quite costly and time consuming. Restaurants /ner/managers are advised to be careful enough to ensure that their endeavors have ne to yield results. Restaurants founders / managers could develop training ograms that highlight practices to enhance the human capital of restaurant owners d their entrepreneurial capabilities. Such training programs should include 'learn doing' activities namely incorporating individuals in business situations, which

as been proven to improve the entrepreneurial capabilities of an individual. In idition, programs should emphasize on developing market skills along with dustry-specific knowledge regarding competition, trends, consumer demands and overnment regulations. Growing restaurant owners' entrepreneurial capabilities elds entrepreneurial restaurants that put emphasis on creativity, innovation and iding value. These are keys to success in restaurants.

#### . Future Research

his study recommends two new ideas for future research. Firstly, they should vestigate the moderating role of entrepreneurial orientation in the relationship tween entrepreneurial self-efficacy and new product development success, scondly, they may use longitudinal data to investigate whether any changes may be ptured in relation to entrepreneurial self-efficacy, entrepreneurial orientation and aw product development success.

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appendix 1: Measures used in this study Intrepreneurial Self-Efficacy (ESE) SE1: I have confidence in my ability to identify the need for my products & services. SE2: I have confidence in my ability to design a product or svc that will satisfy customer eeds & wants SE3: I have confidence in my ability to get others to ID with & believe in my vision. SE4: I have confidence in my ability to make contact with and exchange information with SE5: I have confidence in my ability to estimate customer demand. SE6: I have confidence in my ability to estimate the amount of working capital needed to in my restaurant SE7: I have confidence in my ability to organize & maintain financial records. SE8: I have confidence in my ability to read & interpret financial statements SE9: I have confidence in my ability to manage the financial assets of my restaurant. SE10: I have confidence in my ability to supervise employees SE11: I have confidence in my ability to train employees ntrepreneurial Orientation D1: The term "risk taker" is considered a positive attribute for people in our restaurant 32: People in our restaurant are encouraged to take calculated risks with new ideas. 33: Our restaurant emphasizes both exploration and experimentation for opportunities

D4: We actively introduce improvements and innovations in our restaurant.
D5: Our restaurant is creative in its methods of operation

Our restaurant seeks out new ways to do things.

77: We always try to take the initiative in every situation

38: We excel at identifying opportunities.

99: We initiate actions to which other restaurants respond.

ew Product Development Success

PDS1 New restaurant meals have exceeded sales objective.

PDS2 New restaurant meals have exceeded market share objectives

DS3: New testaurant meals have exceeded profit objective.

DS4: New restaurant meals have resulted in meals outcome superior to competitors