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The effect of transformational leadership on nonfamily international intrapreneurship behavior in family firms: the mediating role of psychological empowerment

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Abstract

Purpose – The study aims to reveal the effects of transformational leadership on nonfamily employee international intrapreneurship with the mediating role of psychological empowerment.

Design/methodology/approach – The study sample consists of 379 employees at 132 family export and import firms in Ho Chi Minh City of Vietnam. The data is analyzed by a partial least squares structural equation modeling (PLS-SEM).

Findings – The paper reveals that transformational leadership had a positive and significant influence on nonfamily employee international intrapreneurship. The effect of transformational leadership on international intrapreneurship is strongly mediated by psychological empowerment.

Practical implications – Family firms would have to form the architecture and mechanisms for supporting the dedication of nonfamily international intrapreneurship actions with transformational leadership and psychological empowerment.

Originality/value – The paper grants the driving mechanism of the transformational leadership on nonfamily employee international intrapreneurship through the mediating role of employee psychological empowerment in the context of family businesses in an emerging market.

Keywords International intrapreneurship, Psychological empowerment, Strategic renewal behavior, Transformational leadership. New business venture behavior

Paper type Research paper

1. Introduction

Family-owned companies blend and steady conflicting forces, facing pressures between the aspire to protect the core values of family, control power and tradition by staying grounded in the local market and the demand to explore and exploit the benefits of global market expansion (Arregle *et al.*, 2017; Bird and Wennberg, 2014; Gómez-Mejía *et al.*, 2010). Firms endure when they possess a corporate culture that balances the continuity of core concepts and necessary change (Collins and Porras, 1994). In the era of hyper-competition and dynamism, the international business of family firms is now more dependent on the pursuit of new business



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ventures, the ability to innovate, continuous self-renewal and adoption of a proactive stance (Ratten, 2020). Going beyond domestic borders to explore opportunities and exploit nonlocation bound firm-specific advantages at the global level has thus become imperative to stay ahead of competitors (Alayo et al., 2019). Transnational resources of entrepreneurs and employees foster a firm's competitiveness (Mostafiz et al., 2020). Prior research suggests that international intrapreneurship might reinvigorate firms performance with innovation and change adaption in the domestic and external environments (Mubarik et al., 2020; Skarmeas et al., 2016). However, intrapreneurship studies in the international business context of the family firm in emerging markets have dropped behind those in Western settings (De Clercq and Zhou, 2014; Samiee et al., 2015; Urbano et al., 2013). Precompetitive researches concentrated largely on corporate entrepreneurship within large size established firms operating in the manufacturing sector, with macro-level analysis (Hill and Birkinshaw, 2014). The amount of insignificant quantity of scholarly work devoted to the topics of corporate entrepreneurial activities in family-owned firms and disregarding the micro-foundations and the role of nonfamily members (Glinyanova et al., 2021). This exclusive phenomenon demands a specific and contextualized reassessment of established theories that integrate international corporate entrepreneurship in the context of family-owned firms and international business, which might help understand the differences of family-owned firms in approaching international corporate entrepreneurship. The conceptual research model is presented as Figure 1.

Leadership is a vital factor in the orientation of follower's positive attitude and innovation behavior (Lord *et al.*, 2020; Rao-Nicholson *et al.*, 2016; Usman *et al.*, 2021). Transformational leadership is one of the most relevant leadership models in family-owned companies (Arnold, 2017; Fries *et al.*, 2020; Vallejo, 2011). Family-owned firms face a conflict of interest between maintaining core family values and changing in response to market needs and stakeholders. The leader or head of the family experiences a state of emotional conflict that causes leadership to be exercised in family companies in a transformative type (Tipu, 2018). Transformational leadership is a significant contributor to organizational change due to leader able to motivate and support employee commitment to the change, form a shared perspective among managers and followers, and concerning high inherent value to goal achievement, with effective human resource management implementation (Farahnak *et al.*, 2020; Galbreath *et al.*, 2020; Wang *et al.*, 2014).

Organizations need to exploit the entrepreneurial potential at multiple organizational levels, each individual within the organization should be given the empowerment to access information, resources and support to perform corporate entrepreneurship (Kanter, 1985). Employee empowerment is an advanced method for enhancing efficiency through the development of commitment among positive behaviors (AlKahtani *et al.*, 2021; Francis and Alagas, 2020). Empowerment helps employees to act proactively based on their perception of ownership in decision-making instead of due to the impact of power mechanisms or decentralization in the organization (Malik *et al.*, 2021). There is a significant demand aim to explore the influence of institutional characteristics and national cultures of different settings on the form and success of corporate entrepreneurship (Lampe *et al.*, 2020). Although transformational leadership is recognized to be a vital factor of organizational performance, very few trials have investigated the influencing mechanism of transformational leadership on nonfamily employee international intrapreneurship and through a mediating role of psychological empowerment.



Figure 1. Conceptual framework

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The paper aims to delve into the direct and indirect effects of transformational leadership on nonfamily employee international intrapreneurship. The paper grants the direct influencing mechanism of transformational leadership on nonfamily employee international intrapreneurship and mediating role of family factors for employee psychological empowerment.

2. Review of literature and hypothesis development

2.1 Theoretical foundations

Internationalization encompasses many processes, including the internationalization of markets, production, labor and capital (Bai et al., 2021). Internationalization can be described as innovative, proactive and risk-taking business behaviors (Covin and Slevin, 1991; McDougall and Oviatt, 2000). The process and internationalization performance of firms may be explained by prestigious internationalization models or theories built with different underlying assumptions and structures, namely the Uppsala model (Johanson and Vahlne, 1990), network model (Johanson and Vahlne, 1990), the resource-based view (Hart, 1995), elective theory (Dunning, 1980) and international entrepreneurship theory (McDougall and Oviatt, 2000). Uppsala model emphasizes the active role of entrepreneurs in assuming that firms are not averse to risk to internationalize and the necessary knowledge to enter new markets progress is possibly offered by a firm experience concerning overseas activities (Johanson and Vahlne, 1990). Firm competitiveness, especially the knowledge-intensive business, is linked to its talent base and embeddedness in international networks providing business opportunities (Wan et al., 2020). Based on the resource-based view perspective, firm internationalization is dependent on valuable, hard-to-imitate and irreplaceable resources that contribute to a company's core or unique competencies and lead to long-term competitive advantage (Hart, 1995). Company resources include all tangible and intangible assets, allowing the company to create and apply value-enhancing strategies (Wernerfelt, 1995). In particular, human capital is crucial for economic growth and business opportunities. In international relationships, human capital includes knowledge, skills, talents and experience that are used to provide value to a company (Javalgi and Todd, 2011). Dunning (1980) introduces an eclectic model to explain foreign investment activities according to specific advantages of ownership. location-specific advantage and intrinsic advantage. Ownership advantage is companyspecific resources or capabilities (such as international experience, human capital), while location-specific advantages (such as market potential from highly open economies) refer to the existing manufacturing and institutional factors in a particular country/market. The advantage of internalization depends on the ability of the foreign company to manage and coordinate internal activities (Dunning, 1980). International entrepreneurship theory emphasizes the role of innovation, proactive and risk-taking behavior among key actors facilitate early and accelerated international expansion (McDougall and Oviatt, 2000). SMEs have their own and unique internationalization approach, and there are no common models for all types of firms (Dabić et al., 2020). The study applied the resource-based theory for the study of intrapreneurship, focusing on the role of human capital with international intrapreneurship for firm performance. International business enterprises in emerging economies have limited international business life and resources, which need to follow international business theory steps, which emphasize the linear, ordered and sequential nature of the internationalization process (Schwens et al., 2018). Corporate entrepreneurship theory might help provide a more robust explanation for firm performance, which emphasizes the dynamic, often chaotic, aspects of early internationalization where skills, experience and social networks play a dominant role (Ahimbisibwe et al., 2020). Moreover, previous international business studies are viewed as paying insufficient attention to individual importance with their human capital for SMEs internationalization (Mubarik et al., 2020; Oviatt and McDougall, 1994).

leadership

transformational

2.2 Transformational leadership and international intrapreneurship

Transformational leadership has been acknowledged as an underlying determinant of organizational change, measured by four dimensions, namely idealized influence, inspirational motivation, intellectual stimulation and individualized consideration (Avolio and Bass, 2004; Shao *et al.*, 2017; Watts *et al.*, 2020; Yang *et al.*, 2019).

Intrapreneurship adverts entrepreneurial activities in existing organizations (Antoncic and Hisrich, 2003). International intrapreneurship is employed as a phenomenon in firms that undergo internationalization (Hisrich, 2013). International intrapreneurship might be used as a mechanism in the international strategy and is intended to create value in organizations (Oviatt and McDougall, 2005). The differentiation in economic, political, cultural and technological environments are crucial factors that make international intrapreneurship more complex in relation to domestic settings (Onetti et al., 2012). Two features of intrapreneurship, including employee strategic renewal behavior and new business venture behavior, play a crucial role in building theory in the context of international business (Do and Luu, 2020). International joint venture behavior includes activities aimed at linking, enhancing, or attracting capital for new business projects in international markets. International strategic renewal behavior is actions that take advantage of core competencies and seize market opportunities to comprehensively innovate strategies from products and services to operational processes, organizational strategies to improve the organization's competitiveness in the international market (Luu, 2020; Woo, 2018). The behavioral and bottom-up approaches are seemly to be appropriate in explaining the intrapreneurship concept as intrapreneurship is more about self-motivated, proactive and action-oriented employees.

Transformational leadership dimensions are positively related to innovative behavior (Afsar and Umrani, 2019; Amankwaa *et al.*, 2019; Huynh, 2021; Sanders and Shipton, 2012; Shafi *et al.*, 2020; Tung, 2016). Transformational leaders might promote employee creativity process engagement with the creative-self-efficacy, horizontal participation, resource availability and supportive climate (Boukamcha, 2019; Mahmood *et al.*, 2019; Moriano *et al.*, 2014; Rigtering and Weitzel, 2013; Yariv and Galit, 2017). Transformational leadership can motivate individuals to change and improve subordinates to think creatively, problem analysis from multiple angles and look at new solutions when solving corporate problems (Khalili, 2016). Transformational leadership guides employees, giving them confidence and motivation to adapt to change, bringing added value for innovation performance (Lei *et al.*, 2020).

Although leadership is proven to be a significant premise of intrapreneurship, its effects depend on the organizational cultural context, and in many cases, can hinder corporate innovation (Montreuil et al., 2020). Familiness is a resource for strategic entrepreneurship in family-owned firms (Arzubiaga et al., 2018; Kansikas et al., 2012). The presence of a family CEO and the percentage of family directors are found to significantly influence innovativeness (Deman et al., 2018). Transformational leadership is particularly relevant in family companies, where great power and responsibility are delegated to the leadership (Arnold, 2017). The power of a transformative leader in family-owned firms and transformational leadership are crucial for creating organizational institutions, strategic directions, which can motivate a company to seek and implement innovative ideas to promote, create and enhance its competitive edge through strategic renewal and business venture (Anning-Dorson and Nyamekye, 2020). Family member CEO risk-taking propensity has a positive effect on new product portfolio innovativeness in family-owned firms (Kraiczy et al., 2015). Besides, transformational leadership is recognized to be a vital factor of organizational change and innovation performance; very few trials have investigated the influencing mechanism of transformational leadership constructs on employee intrapreneurial behavior in the context of family-owned firms.

H1. Transformational leadership directly and positively influences nonfamily employee international intrapreneurship in family-owned firms. 2.3 Transformational leadership and employee psychological empowerment

Components of psychological empowerment consist of constructs self-determination, competence, meaning and impact (Spreitzer, 1995). Transformational leadership can influence employee empowerment by providing accurate and relevant information about vision, mission and strategic goals in a clear and transparent communication environment where real responsibility is communicated publicly (Avolio and Bass, 2004; Jha, 2014; Pradhan et al., 2017). Empowerment is content or product of individualized consideration in transformational leadership, but it is also related to intellectual stimulation. Transformational leadership focuses on developing followers through effective empowerment, empowering leaders through role models, allowing employee participation in fitting functions that can promote creative behavior within the organization (Naqshbandi and Tabche, 2018). Transformational leaders are positively linked with work and psychological empowerment (Lan and Chong, 2015).

Transformational leaders in family-owned companies can develop employee ownership through ownership power and transformational leadership, which might elevate employee emotions and engage employees in the common goals as the leader and organization (Memili et al., 2013). Transformational leaders can transform their employees to actively develop an entrepreneurial mindset and foster innovation processes throughout the family-owned firm (De Massis et al., 2016). Nonfamily employee's feeling of sense, ownership and belonging to the organization is an important source of their satisfaction under the impact of transformational leadership (Sorenson, 2000). The combination of ownership power, strategic direction and characteristics of transformational leadership make family-owned leaders more successful in adopting a transformational leadership style (Bauweraerts et al., 2021; Pearson and Marler, 2010). However, recent findings suggest that this is not always such a simple relationship (Arnold, 2017). In this study, we investigate the relationship between transformational leadership and nonfamily employee psychological empowerment in family-owned firms.

H2. Transformational leadership directly and positively influences nonfamily employee psychological empowerment in family-owned firms.

2.4 Employee psychological empowerment and international intrapreneurial behavior Psychological empowerment for employees means that the organization provides resources for employees in performing positive organizational behaviors via relationship building (Farahani and Falahati, 2007; Hashemi and Nadi, 2012; Mahmoud et al., 2019; Park et al., 2014; Sengar et al., 2020). Organizational empowerment is a mechanism that not only influences the employee attitude toward the organization through creating/enhancing loyalty, value congruence and affective commitment but also leads to self-empowerment (Malik et al., 2021; Moghaddas et al., 2020).

Organization empowered climates with good communication, high levels of participation and trust, decentralized decision-making and a friendly atmosphere, which relate to firm innovativeness (Anning-Dorson and Nyamekye, 2020). Empowerment helps employees proactively act based on their perception of ownership in decision-making rather than the impact of power or decentralized mechanisms in the organization. However, a pleasant work environment with a high degree of empowerment can produce negative consequences with uncontrolled intrapreneurship behavior (Hashimoto and Nassif, 2014). Conversely, an autocratic leader who maintains a high concentration of power, or attempts to maintain family ownership in the organization, will also discourage creativity and innovation (Craig and Moores, 2006; Pittino and Visintin, 2009). Therefore, a balanced approach is needed to maintain organizational stability while encouraging intrapreneurship behavior. The role of employee psychological empowerment on intrapreneurship through is a deficiency in previous studies in family-owned firms.

H3. Psychological empowerment directly and positively influence nonfamily employee international intrapreneurship in family-owned firms.

2.5 The mediating role of psychological empowerment on the relationships between transformational leadership and international intrapreneurial behavior

Although several investigations have granted the positive associations between leadership role and outcomes at organizational and individual levels, the controlled mechanisms underlying this link is vague (Luu and Phan, 2020). Previous studies have revealed the crucial role of psychological empowerment in explaining the relationship between leadership styles and employees outcomes through mediating effect (Begum et al., 2020; Fong and Snape, 2015), moderating effect (Ozarallı, 2015) and as a direct determinant (Bester et al., 2015). Besides, recent findings emphasized the mediating effects of psychological empowerment in relationships between transformational leadership and organizational behaviors of employees and organizational success (Ali et al., 2020; Bose et al., 2020; Lei et al., 2020; Mansoor and Ali, 2020; Stanescu et al., 2020). Highly transformative leadership behavior increases employee ownership, laying the foundation for cohesion and a higher, more sustainable level of innovation capacity in family-owned firms (Rau et al., 2019; Stanescu et al., 2020). Contrary to these results, the correlations of leadership styles and innovative behavior are not mediated by empowerment in a few studies (Farrukh et al., 2019). Unfortunately, the influencing mechanism of transformational leadership on intrapreneurship through the mediating role of employee psychological empowerment is fuzzy in previous studies in the field of family-owned firms.

H4. Employee psychological empowerment partially mediates the positive relationship between transformational leadership and employee international intrapreneurship predicted by Hypothesis 1.

3. Methodology

3.1 The sample and data collection

Intrapreneurship is significant for international family firms, and based on their distribution channels, are mostly dependent on direct marketing strategy through knowledge, skills and innovation among employees (Klofsten *et al.*, 2021; Mubarik *et al.*, 2020). Vietnam is an emerging market experiencing a high rate of economic growth in addition to societal concerns, determined by expanded trade and investment activities, the different political, economic, social and labor contexts. Moreover, Vietnam is one of the countries with substantial economic openness, is an active agent in international integration, and a member of the 15 FTAs by 2021, which might boost international business development. Therefore, Vietnam might also become a suitable environment for the development and testing of modern business and theoretical management models in the context of emerging and transforming economies.

Scholars principally take for granted the "rules of thumb" for determining sample size for SEM due to the lack of a single universally accepted method. In this paper, the sample size is determined by the "rules of thumb" and necessary parameter values, including anticipated effect size, desired statistical power level, number of latent variables, number of observed variables and probability level (Soper, 2020). The study adopts a sample of 379 key role employees at 132 Vietnamese family import and export firms in the Ho Chi Minh City of Vietnam, based on a nonprobability sampling method with a convenience sample technique. The survey is conducted during July 2020—December 2020. The correspondent list is supplied by the human resource and administration department managers who approve participating in the research. Employees are voluntary and are informed that their responses would remain anonymous and confidential. The collection of data is completed using a direct interviewing method by the authors, which is considered apposite for Vietnamese culture, where communication is primarily through interpersonal interaction. Furthermore, in emerging

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economies as Vietnam, an on-the-job interview method is needed to control the quality and reliability of data (Do and Luu, 2020). The response rate in this study is 90.39% (of 420 questionnaires distributed), which is adequate for organizational research (Baruch and Holtom, 2008). Table 1 reveals the sample representativeness with necessary parameter values.

3.2 Measures

The present study adopted the self-reported reflective scale for all constructs in the model, which are measured the employee perceptions. *Transformational leadership dimensions*:

Demographic characteristics	Frequency	Percentage
Gender		
1. Male 2. Female	215 164	56.7 43.3
Age	101	10.0
1. Less than 25 years	93	24.5
2. 25–34 years	164	43.3
3. 34–44 years 4. >45 years	75 47	19.8 12.4
•	47	12,4
Education level 1. With a bachelor level or upper	263	69.4
2. Other	116	30.6
Number of years in an organization		
1. <3 years	99	26.1
2. 3–5 years	160	42.2
3. 6–10 years	72	19.0
4. More than ten years	48	12.7
Average income/ month		
1. Under US\$ 500	67	17.7
2. U\$\$500-750 3. U\$\$750-1,000	186 73	49.0 19.3
4. Over 1,000 USD	53	14.0
Management level		
Middle-level manager	133	35.1
2. Operational employee	246	64.9
Firm types		
1. Manufacturing firms	63	47.7
2. Service firms	69	52.3
Firm age at internationalization		
1. Under three years	27	20.5
2. More than three years	105	79.5
Sample size calculator for PLS-SEM	0.00	
1. Anticipated effect size 2. Desired statistical power level	0.30 0.95	
3. Number of latent variables	10	
4. Number of observed variables	35	
5. Probability level	0.05	
6. Minimum sample size to detect the effect 7. Minimum sample size for model structure	270 138	
8. Recommended minimum sample size	270	
Actual sample size in the study	379	

Table 1. Sample characteristics

Four subdimensions measure the transformational leadership from the multifactor leadership questionnaires, including idealized influence (4-items, e.g. "Our manager views the ethical impacts of his/ her decisions."; Cronbach's Alpha = 0.93), inspirational motivation (3-items, e.g. "Our manager provides appealing images about what we can do."; Cronbach's Alpha = 0.89), intellectual stimulation (mean of 4-items, e.g. "Our manager has stimulated me to look at things in new ways."; Cronbach's Alpha = 0.88), and individualized consideration (3-items, e.g. "Our manager considers me as having different needs, abilities, and aspirations from others."; Cronbach's Alpha = 0.89) (Avolio and Bass, 2004; Bass and Avolio, 1997). Employees give the perception of their direct manager's department leadership behavior, which is given on a five-point Likert scale ranging from 1 = never to 5 = always.

3.2.1 Intrapreneurial behaviors. Measurement scale by Do and Luu (2020) is adopted, which includes two dimensions, employee strategic renewal behavior, adapting 3-items (e.g. "I attempt actions to transform the existing product/service for our firm."; Cronbach's Alpha = 0.87), and employee new business venturing behavior, adapting 6-items (e.g. "I attempt to establish agencies externally for our firm."; Cronbach's Alpha = 0.88). Employees give the self-assessment on their intrapreneurial behaviors, which is given on a five-point Likert scale ranging from 1 = never to 5 = always.

3.2.2 Psychological empowerment. Spreitzer's (1995) psychological empowerment questionnaire is adopted, including four constructs meaning (mean of 3-items, e.g. "The work I do is meaningful to me."; Cronbach's Alpha = 0.89), competence (mean of 3-items, e.g. "I am confident about my ability to do my job."; Cronbach's Alpha = 0.90), self-determination (mean of 3-items, e.g. "I have significant autonomy in determining how I do my job."; Cronbach's Alpha = 0.89), and impact (mean of 3-items, e.g. "My impact on what happens in my department is large."; Cronbach's Alpha = 0.88). Employees give the self-assessment of their psychological empowerment, which is given on a five-point Likert scale ranging from 1 = disagree completely to 5 = agree.

3.3 Common method bias testing

Both the procedural and the statistical methods suggested by Podsakoff *et al.* (2003) are used in this study to address the common method bias. First, a brief explanation in the introduction is included in the questionnaires without implying any relationship between the exogenous and endogenous variables. Second, to overcome any issues of bias, the questionnaire is pretested, the confidentiality of the respondents is reiterated, and it is ensured there is no "right or wrong" answer. Third, Harman's single factor test is used to check the existence of common method bias. The results indicated that the single factor could explain only 33.68% of the variance; thus, there is no common method bias presented in the data.

4. Results

Evaluation of partial least squares-structural equation modeling results includes two steps examining the measurement models and assessing the structural model with the specific procedure and relevant assessment criteria by Hair *et al.* (2019).

4.1 Examining the measurement models

Examining the indicator loadings. PLS-SEM Algorithm technique is chosen for analyzing the data and proposed hypotheses using SmartPLS 3 software (Ringle *et al.*, 2015). The estimation results indicate the indicator loadings of the constructs in the model above 0.64 or higher, which reveal that the construct explains more than 50% of the indicator variance, thus providing acceptable item reliability (Hair *et al.*, 2019).

Assessing internal consistency reliability. Table 2 shows that composite factor reliability coefficients of the constructs (C.R) are ranged from 0.83 to 0.90, which met the standard good reliability of internal consistency (Jöreskog, 1971).

JABES 28,3	Variables	Items	Mean	S.D.	C.R.	AVE
- 5,5	Transformational leadership					
	1. Idealized influence	4	3.87	0.61	0.86	0.61
	2. Inspirational motivation	3	3.94	0.59	0.84	0.58
	3. Intellectual stimulation	4	3.74	0.55	0.86	0.68
	4. Individualized consideration	3	3.93	0.56	0.88	0.70
212	Employee psychological empowerment					
	5. Meaning	3	3.93	0.59	0.88	0.59
	6. Competence	3	3.96	0.60	0.85	0.62
	7. Self-determination	3	3.95	0.59	0.88	0.67
	8. Impact	3	3.93	0.57	0.83	0.65
Table 2. Results of reliability	International intrapreneurship					
and convergent	9. Employee international strategic renewal behavior	3	3.89	0.66	0.85	0.65
validity tests	10. Employee international new business venture behavior	6	3.78	0.58	0.90	0.60

Addressing the convergent validity. The average variance extracted (AVE) for each construct in the model above the recommended threshold of 0.58 or higher indicates the convergent validity of each construct measure (Hair *et al.*, 2019) (see Table 2).

Assessing discriminant validity. Henseler *et al.* (2015) introduce a novel approach for assessing discriminant validity, the heterotrait-monotrait ratio of correlations (HTMT). The HTMT is a measure of similarity between latent variables. In many practical situations, a threshold of 0.85 or 0.90 reliably distinguishes between those pairs of latent variables that are discriminant valid and those that are not (Henseler *et al.*, 2015). Monte Carlo simulations provide evidence for HTMT's favorable classification performance (Voorhees *et al.*, 2016). The results of HTMT calculation are shown in Table 3, which indicate that all construct's discriminant validity is confirmed (Henseler *et al.*, 2015).

This paper appraises transformational leadership, psychological empowerment and international intrapreneurship as a particular conception. As presented in Table 4, the construct's dimensions reflect the higher-order constructs that can be supported by theory.

4.2 Assessing structural models

Evaluation of the model's predictive capabilities and the relationships in the structural model is undertaken via R^2 value, goodness-of-fit, Stone-Geisser's Q^2 and path coefficients

	1	2	3	4	5	6	7	8	9	VIF
1. Competence										1.30
2. Impact	0.108									1.21
3. Idealized influence	0.047	0.324								1.21
4. Individualized consideration	0.071	0.358	0.331							1.03
5. Inspirational motivation	0.099	0.267	0.263	0.435						1.21
6. Intellectual stimulation	0.080	0.223	0.118	0.138	0.185					1.25
7. Meaning	0.421	0.097	0.184	0.055	0.078	0.045				1.47
8. Self-determination	0.520	0.135	0.045	0.091	0.068	0.042	0.365			1.07
9. Employee international strategic renewal behavior	0.089	0.467	0.414	0.595	0.608	0.291	0.121	0.031		1.56
10. Employee international new business venture behavior	0.075	0.437	0.465	0.594	0.691	0.230	0.067	0.089	0.870	

Table 3.
Discriminant validity test among research constructs with Heterotrait-Monotrait ratio

	Mean	S.D.	Loading	s C.R.	AVE	The effect of transformational
Second-order of employee psychological empowerment Meaning Competence Self-determination Impact	nt 3.94	0.59	0.74 0.85 0.83 0.51	0.82	0.55	leadership
Second-order of transformational leadership Idealized influence Inspirational motivation Intellectual stimulation Individualized consideration	3.87	0.58	0.63 0.75 0.77 0.74	0.87	0.59	213
Second-order of international intrapreneurship Strategic renewal behavior New business venture behavior	3.84	0.62	0.90 0.93	0.92	0.84	Table 4. Second-order of constructs in the model
	Original sample	Sample mean	SD	T statistics	P values	
Psychological empowerment → International	0.341	0.346	0.049	6.900	0.000	
intrapreneurial behavior Transformational leadership → International	0.530	0.524	0.048	11.055	0.000	
intrapreneurial behavior Transformational leadership \rightarrow Psychological empowerment	0.477	0.484	0.051	9.323	0.000	Table 5. Standardized direct effects

(Hair *et al.*, 2019). The VIF values of the predictor constructs in the model are lower than 3.00, and thus collinearity is not an issue in the model (see Table 3) (Hair *et al.*, 2017).

The R^2 value of the endogenous constructs is a measure of the model's explanatory power and in-sample predictive power (Hair *et al.*, 2019). The R^2 value of the endogenous constructs in the model, namely psychological empowerment and international intrapreneurship, are 0.226 and 0.567, respectively. The value of F Square also reflects the significance of transformational leadership on psychological empowerment (0.295) and the effects of transformational leadership and psychological empowerment on intrapreneurship behavior (F Square = 0.208 and 0.504, respectively). Standardized root-mean-square residual (SRMR) = 0.053, thus providing the model fit (Joreskog and Sorbom, 1981). Q^2 values are found to be positive and higher than 0, 0.25, which depict small and medium predictive relevance of the PLS-path model: psychological empowerment (Q^2 = 0.116) and international intrapreneurship (Q^2 = 0.466).

4.2.1 Direct effects. Chin (1998) recommended that a bootstrapping procedure using 1,000 subsamples is performed to evaluate the statistical significance of each path coefficient. Table 5 shows hypothesized path coefficients, their bootstrap values and T values.

In full support of Hypothesis 1, transformational leadership is found to be positively and significantly related to employee international intrapreneurship ($\beta=0.530,\ t=11.055,\ p<0.001$). In full support of Hypothesis 2, transformational leadership is found to be positively and significantly related to employee psychological empowerment ($\beta=0.477,\ t=9.323,\ p<0.001$). Employee psychological empowerment is revealed to be directly and significantly effects on employee international intrapreneurship ($\beta=0.341,\ t=6.900,\ p<0.001$). Therefore, Hypothesis 3 is fully supported by the data.

4.2.2 Indirect effects. Table 6 reveals the partial mediation of employee psychological empowerment in the relationship between transformational leadership and employee

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international intrapreneurship ($\beta = 0.162, t = 4.989, p < 0.001$). Therefore, Hypothesis 4 is fully supported by the data.

The estimated results of the reversed mediation model (dependent variable \rightarrow mediators \rightarrow independent variables) show the model fit as standardized root mean square residual (SRMR) = 0.077. The results reveal that the hypothesized model is the best representation of the data SRMR = 0.053, which indicates that the proposed model is preferred to the reverse-path model in this study (Baron and Kenny, 1986). Table 7 shows the total effects of the final hypothesized model.

5. Discussion and conclusions

5.1 Discussion

The study sheds light on the advanced knowledge on the process that transformational leaders in family firms may foster human capital with the intrapreneurship process through building comprehensive relationships between family factors and nonfamily members (Huynh, 2021). International intrapreneurship is crucial in creating wealth for firms (Do and Luu, 2020; Hisrich, 2013; Skarmeas et al., 2016; Wolf and Redford, 2019; Yan et al., 2020). International intrapreneurship might reinvigorate firm performance with innovation and change adaption in the domestic and external environments (Badoiu et al., 2020; Covin and Slevin, 1991; Duradoni and Di Fabio, 2019; Rigtering and Weitzel, 2013). However, intrapreneurship studies in the international business and drivers for the long-term performance of family firms in emerging markets context have dropped behind those in Western settings (De Clercq and Zhou, 2014; Samiee et al., 2015; Urbano et al., 2013). During increased uncertainly in the export environment, employee skills, education and industry experience affect international performance (Javalgi and Todd, 2011). The important human capital dimensions for SMEs internationalization are managerial skills, international experience and the knowledge of the export environment (Dar and Mishra, 2019). The paper provides empirical evidence that family-owned firms can enhance intrapreneurship activities from transformational leadership and through the mediating role of employee psychological empowerment. Transformational leadership is a crucial factor in pursuing the competitive advantage of family through intrapreneurial behaviors. Family-owned firm

Table 6.
Total standardized indirect effects of transformational leadership on international intrapreneurship with mediating effects of psychological empowerment

Paths	Original sample	Sample mean	SD	T statistics	P values	Mediation effect type
To employee internation Transformational leadership	nal intrapreneur 0.162	rship via psyc 0.168	hological 0.033	empowermer 4.989	nt 0.000	Complementary – partial mediation

	Original sample	Sample mean	SD	T statistics	P values
Psychological empowerment → International intrapreneurial behavior	0.341	0.346	0.049	6.900	0.000
Transformational leadership → International intrapreneurial behavior	0.693	0.692	0.034	20.630	0.000
Transformational Leadership → Psychological empowerment	0.477	0.484	0.051	9.323	0.000

Table 7.Total effects of the final hypothesized model

leaders with ownership power create the most important foundation for the successful implementation of strategic direction and transformational leadership, thereby influencing intrapreneurial behaviors. The contribution of entrepreneurship theory to international business theories might be obtained from related developments in corporate entrepreneurship. Applying intrapreneurship theorizing to complement studies of internationalization seems a promising international strategy, particularly relevant when a firm venture abroad with the founding of new organizational units and the outcome of a change in firm strategy and thus reflect organizational renewal (Onetti et al., 2012).

Transformational leadership positively and significantly influence employee international intrapreneurship activities. Transformational leadership might stimulate employee creativity, innovation, adaptability and proactivity at work through an organization's innovative climate (Khalili, 2016; Moriano et al., 2014; Wang et al., 2017). Transformational leaders are visionaries, inspirational, courageous and adventurous, which are coherent with intrapreneur traits (Alam et al., 2020; Mahmoud et al., 2020; Marques et al., 2019; Woo, 2018). Transformational leadership might reinforce intrapreneurship in the direct and indirect channels. In the direct approach, leaders influence innovative employee behavior through their deliberate actions to stimulate idea generation and application and daily behavior (Gerards et al., 2020). Besides, transformational leadership may adopt mediating mechanisms to promote employee intrapreneurial behavior, namely entrepreneurial orientation, corporate social responsibility practices, organizational learning and innovation culture, iob autonomy, employee psychological empowerment, organizational empowerment, organizational identification and organizational support (Amankwaa et al., 2019; Chang et al., 2017; Lei et al., 2020; Sattayaraksa and Boon-itt, 2016; Yariy and Galit, 2017). Transformational leadership's overall effect on employee intrapreneurial behavior is consistent in the existing literature (Afsar and Umrani, 2019; Amankwaa et al., 2019; Sanders and Shipton, 2012; Shafi et al., 2020; Tung, 2016). This paper investigates transformational leadership directly and significantly influences international intrapreneurship in different mechanisms. The organizational context might control these mixed results, that intrapreneurship is conducted (Rosing et al., 2011). Firm type plays a crucial role in promoting employee intrapreneurial behavior by providing a supportive innovation climate (Basco et al., 2020; Camelo-Ordaz et al., 2012; Kuratko and Audretsch, 2013; Lee and Kim, 2019; Urbano et al., 2013).

In family firms, transformational leaders may use intellectual stimulation and personal concern to delegate power to subordinates, and charismatic factors and ideological influences can nurture undesirable dependencies and leaders (Fries *et al.*, 2020; Stanescu *et al.*, 2020). Besides, empowerment has negative effects associated with patriotism, undermining the organization and creativity of employees. Employees who feel a clear role, have access to important organizational information, and work in a participatory environment feel more communicated (Anning-Dorson and Nyamekye, 2020). Transformational leadership is positively related to innovative behavior only when psychological empowerment is high (Grošelj *et al.*, 2020). Empowerment plays an important role in building commitment, loyalty and involvement of subordinates in the organization (AlKahtani *et al.*, 2021; Francis and Alagas, 2020). Transformational leadership through empowerment can significantly affect the success of subordinates and organizations (Ali *et al.*, 2020; Bantha and Nayak, 2020; Bose *et al.*, 2020; Lei *et al.*, 2020; Mansoor and Ali, 2020).

5.1.1 Theoretical implications. The study sheds light on the advanced knowledge on the process that transformational leaders in family firms may foster human capital with the intrapreneurship process through building comprehensive relationships between family factors and nonfamily members. The paper develops extensive knowledge of the methods for generating intrapreneurship activities within organizations, which might contribute to originate the integrative theory on international corporate entrepreneurship and

resource-based view perspective of international business in the context of the family business in an emerging market.

5.1.2 Managerial implications. The paper implies that a family-owned firm needs to develop dynamic competitiveness based on promoting human capital through intrapreneurship activities. Empowering subordination is an important process that helps define transformational leadership, build commitment and inspire work for subordinates. The family firms need to reallocate their resources to the link between transformational leadership and nonfamily international intrapreneurship activities with the influencing mechanism of psychological empowerment regarding cost savings and operational efficiency and effectiveness.

5.1.3 Research limitations and guidance for future research. This study also contains many limitations. The first limitation is relevant to the sample bias with a self-evaluation questionnaire and cross-sectional data. It is highly concerned about the generalizability of the findings because of nonprobability sampling methods with convenience sampling techniques. This implies that future international entrepreneurship research could benefit from longitudinal research designs at the intersection of internationalization and entrepreneurship. The second limitation concerns the research model scope. This paper has partly contributed to international business theory through family SMEs' export trading results interpretation based on entrepreneurship theory. However, each stage of international business of family firms requires different resources. Therefore, it is necessary to incorporate theoretical perspectives from both domains in explaining each stage of internationalization of family firms.

5.2 Conclusions

The family firms from emerging and transition economies are increasingly exploring and exploiting international markets' opportunities. However, increasing uncertainty in the international business environment requires a family firm's need for a lean strategic approach, which ignores the linear process of internationalization. This study complements the existing theory by placing international corporate entrepreneurship theory within the framework of international business theory and in the context of family business. The study examines and reveals the direct influence of transformational leadership on nonfamily employee international intrapreneurship and through the mediating role of psychological empowerment in the context of family firms in an emerging economy context.

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