STRATEGICA

International Academic Conference

- Fourth Edition -

Bucharest, October 20-21, 2016

Opportunities and risks in the contemporary business environment

Edited by

Constantin Brătianu Alexandra Zbuchea Florina Pînzaru Ramona-Diana Leon Elena-Mădălina Vătămănescu

STRATEGICA

Opportunities and Risks in the Contemporary Business Environment

CONFERENCE HONORARY CHAIRS

Remus Pricopie, Rector, National University of Political Studies and Public Administration (SNSPA), Romania

Alina Bârgăoanu, Vice-Rector, National University of Political Studies and Public Administration (SNSPA), Romania

CO-CHAIRS

Constantin Brătianu – Professor, Bucharest University of Economic Studies, Romania **Florina Pînzaru** – Dean, Faculty of Management, SNSPA, Romania

TRACK CHAIRS

Andreia Gabriela Andrei, "Alexandru Ioan Cuza" University of Iași, Romania **Lucian Anghel**, SNSPA, Romania

Ettore Bolisani, University of Padova, Italy

Ovidiu-Niculae Bordean, Universitatea Babeș-Bolyai, Romania

Constantin Brătianu, Bucharest University of Economic Studies, Romania

Johan Cottyn, Vives University, Belgium

Patrizia Gazzola, Insubria University, Italy

Bogdan Glavan, Romanian-American University, Romania

Alina Daniela Mihalcea, SNSPA, Romania

Andreea Mitan, SNSPA, Romania

Mariana Nicolae, Bucharest University of Economic Studies, Romania

Cristian Păun, Bucharest University of Economic Studies, Romania

Mauro Romanelli, University of Naples Parthenope, Italy

Victoria Seitz, California State University, San Bernardino, US

Sergiu Octavian Stan, SNSPA, Romania

Laurențiu-Mihai Treapăt, SNSPA, Romania

Elena-Mădălina Vătămănescu, SNSPA, Romania

Ralf Wagner, University of Kassel, Germany

Alexandra Zbuchea, SNSPA, Romania

SCIENTIFIC COMMITTEE

Laurențiu Anghel, Bucharest University of Economic Studies, Romania

Nedra Bahri-Ammari, IHEC of Cartage, Tunisia

Dumitru Borţun, SNSPA, Romania

Nicholas Chandler, Budapest Business School, Hungary

Johan Cottyn, VIVES University, Belgium

Camelia Crisan, SNSPA, Romania

Nicolae Dănilă, Bucharest University of Economic Studies, Romania

Daniel Glaser-Segula, Texas A&M University San Antonio, Texas, US

Bogdan Glavan, Romanian-American University, Romania

Omkumar Krishnan, Chonnam National University, India

Raquel Meneses, University of Porto, Portugal

Mariana Nicolae, Bucharest University of Economic Studies, Romania

Luminita Nicolescu, Bucharest University of Economic Studies, Romania

Dimitrios Nikolaidis, City College International Faculty of Sheffield University, Greece

Marina Ochkovskaya, Lomonosov Moscow State University, Russia

Cristian Păun, Bucharest University of Economic Studies, Romania

Lajos Szabó, Pannonia University, Hungary

Eduardo Tome, Universidade Europeia, Laureatte Group, Portugal

Wioletta Sylwia Wereda, Warsaw Military Academy & Siedlce University of Natural Sciences and Humanities, Poland

ORGANIZING COMMITTEE

Alexandra Zbuchea, SNSPA, Bucharest, Romania Lucian Anghel, SNSPA, Bucharest, Romania Elena-Mădălina Vătămănescu, SNSPA, Bucharest, Romania Ramona-Diana Leon, SNSPA, Bucharest, Romania Andreea Mitan, SNSPA, Bucharest, Romania Lucian Simion, SNSPA, Bucharest, Romania

Elena-Mădălina Vătămănescu, SNSPA, Romania

Alexandra Zbuchea, SNSPA, Romania

ADDITIONAL REVIEWERS Vlad-Andrei Alexandru, SNSPA, Romania Oana Almăşan, Arizona State University, US Andreia-Gabriela Andrei, "Alexandru Ioan Cuza" University of Iași, Romania Anca Bibiri, "Alexandru Ioan Cuza" University of Iași, Romania Gabriela Boldureanu, "Alexandru Ioan Cuza" University of Iasi, Romania Constantin Brătianu, Bucharest University of Economic Studies, Romania Patrizia Gazzola, Insubria University, Italy Anda Gheorghiu, SNSPA, Romania **Elena-Alexandra Gorgos**, SNSPA, Romania Ramona-Diana Leon, SNSPA, Romania Andreea Mitan, SNSPA, Romania Mihaela Mocanu, "Alexandru Ioan Cuza" University of Iasi, Romania Mariana Nicolae, Bucharest University of Economic Studies, Romania Laura Pricop, "Alexandru Ioan Cuza" University of Iasi, Romania Mauro Romanelli, University of Naples Parthenope, Italy Laurențiu-Mihai Treapăt, SNSPA, Romania

STRATEGICA

International Academic Conference

– Fourth Edition –

Bucharest, Romania, October 20-21, 2016

Opportunities and Risks in the Contemporary Business Environment

Edited by

Constantin Brătianu Alexandra Zbuchea Florina Pînzaru Ramona-Diana Leon Elena-Mădălina Vătămănescu All the rights of this version belong to Faculty of Management (SNSPA), 2016.

Wording, contents and translation quality of the paper are entirely in the charge of authors. Articles or extracts from this book may be reprinted on condition that the names of the authors and the title of the book are clearly stated.

SNSPA, Faculty of Management 6 Povernei Street, Sector 1, Bucharest, Romania www.facultateademanagement.ro

ISSN: 2392-702X

ISBN (E-book): 978-606-749-181-4





LINKING ENTREPRENEURIAL ORIENTATION TO FIRM PERFORMANCE IN A POST-SOCIALIST MARKET CONTEXT: THE CASE OF HUNGARY

David KOVACS

University of Kassel 1 Moenchebergstr St., Kassel, 34125, Germany kovacsdavid009@gmail.com

Taylan ÜRKMEZ

University of Kassel 1 Moenchebergstr St., Kassel, 34125, Germany uerkmez@wirtschaft.uni-kassel.de

Dominik BROCKHAUS

University of Kassel 1 Moenchebergstr St., Kassel, 34125, Germany brockhaus@wirtschaft.uni-kassel.de

Ralf WAGNER

University of Kassel 1 Moenchebergstr St., Kassel, 34125, Germany rwagner@wirtschaft.uni-kassel.de

Katrin ZULAUF

University of Kassel 1 Moenchebergstr St., Kassel, 34125, Germany zulauf@wirtschaft.uni-kassel.de

Abstract. Entrepreneurial orientation provoked the interest of numerous scholars as well as political and administrative decision-makers. Both start-ups and already established corporate entities are increasingly persecuting new opportunities, products, and business models in order to establish superiority above their competitive environment. The tendencies evince an optimist impact of entrepreneurial orientation on business performance, namely on financial performance. Beyond the aforementioned relationship, there are impulses such as environmental and organizational factors, which are affecting the businesses. The results of this study provide evidence of the effect of entrepreneurial orientation on business performance in a post-socialist context. We test the impact of three moderators on this bivariate relationship. In contrast to the substantial body of literature for Western markets, we contribute to minimizing the considerable gap of research in post-socialist economies. Entrepreneurial orientation as an organizational behavior may affect the financial performance of businesses differently in distinct market contexts. Both, internal and external factors are crucial to identifying, analyze and monitor, to achieve superior performance and to overcome competitors. This study builds upon a stratified sampling survey of Hungarian company owners and managers from the Amadeus database. The study uses a confirmatory, deductive approach. For the analysis,

we rely on structural equation modeling using the PLS algorithm. Our study contributes to existing literature by means of confirming the entrepreneurial orientation to firm performance relationship for Hungary. In this context, we test the moderating effects of environmental dynamism, environmental hostility as environmental factors and firm age as an organizational factor. Environmental hostility is closely related to an unfavorable environment, deriving from rapid and radical changes in the industry, which are typical for post-soviet economies. In such dynamic environments, destructive innovations of the industrial actors appear more often. The results confirm that the internal and external factors have no significant influence on the entrepreneurial orientation to financial performance relationship.

Keywords: entrepreneurial orientation; environmental dynamism; financial performance; post-socialist economy.

Introduction

Entrepreneurship is essential to improve wealth and the economic welfare (Covin & Slevin, 1986; Zulauf et al., 2015). A substantial body of Entrepreneurial Orientation (EO) literature provides evidence that firms engaged with entrepreneurial guidance outperform their more conservative competitors (Anderson et al., 2015).

Schumpeter's gale of creative destruction commits entrepreneurs to explicit ongoing phenomena in our global economy. The change makers with higher EO distinguish themselves by a higher likelihood of grasping new opportunities, products, and business models. A new entry in the market incorporates any innovative action undertaken by an individual, strategic business unit or on a corporate level (Lumpkin & Dess, 1996). Those actions are responsible for the constant changes and distortions of existing market segments and open up new opportunities. EO redounds upon new entries and venture boldness in a domestic and cross-national context (Schuster, Falkenreck & Wagner, 2015), where innovativeness and risk-taking represent the core of that action. Some scholars (i.e. Knight, 1997; Thomas & Mueller, 2000; Rauch et al., 2009) indicate that dimensions of EO-independently from its dimensionality-may vary across countries, thus through cultures. Consolidating the results of previous research, we assume that an innovative ad-hoc managerial decision within a hostile and turbulent business environment might attract stakeholder's approval in a country where uncertainty avoidance is low, such as Sweden, while in Japan it may get punished and perceived as an absolute un-respectful and negative action.

Our main contribution is evaluating the impact of moderating context effects on the relationship of EO and financial performance (FP) in Hungary. The remainder of the study is structured as follows. First, we provide an overview of the relevant literature of entrepreneurial orientation in transition economies. The following section describes the research hypotheses development. The third section consists of the study design and data description. Section four demonstrates the effects of entrepreneurial orientation on firm performance. The final section concludes.

Entrepreneurial orientation in transition economies

A comprehensive literature review on EO leads to the result that post-socialist, transforming economies attracted significantly less attention from scholars and researchers in the past. There is an abundance of empirical evidence on EO in developed economies and mature markets, such as the United States, while other large-scale markets such as (Eastern) Europe, have remained partly unexplored (Hermann, Alexander & Matthias, 2010). Ha-Brookshire (2009) noted entrepreneurs "to play a significant role in firms' competitiveness, revitalization, and superior performance" not just in developed economies, but also in transitional economies (p.131). In this vein, Marcotte (2011, p.194) argues that "the comparative assessment of individual and organizational entrepreneurial activity may be more revealing than the country rankings based solely on venture creation or business ownership. These rankings have been notably used to monitor or predict the economic performance of countries." Analysts, policymakers and occasionally researchers have the tendency and willingness to make entrepreneurial intensity equal to economic growth, as for example the Commission of the European Communities (2004).

In their comparative study of strategic orientation's impact on business growth, Laukkanen et al. (2013) challenge the differences between Finland and Hungary. They focus on the effect of earning orientation, EO, market orientation, and brand orientation on business performance in an SME context. Complementing evidence by Danis and Shipilov (2002) highlights entrepreneurial development in the context of post-socialist economies comparing Hungary and Ukraine. The aforementioned and other studies slightly have elaborated the field of entrepreneurship; however, investigating the EO–performance relationship only in Hungary is still not addressed by previous research.

According to the Global Entrepreneurship Monitor (Kelley, Singer & Herrington, 2015), entrepreneurial activity in Hungary is lower than the economic level would indicate. The study shows high standards of entrepreneurial intention, which may serve as a catalyzer for entrepreneurship and corresponding economic activities. On the other hand, Slevin and Terjesen (2011) found that there are differences in entrepreneurship perception favorability of country populations, distinguishing between highly favorable (e.g., Ireland and the United States) and less favorable (e.g., Hungary and Japan). Hungary's post-social, transitional market and the drawn up contradictions among studies reveal that further research is needed in order to understand these markets more deeply, and how the turbulent environment affects the entrepreneurial actions.

Contextualization, constructs and research hypotheses

Adapting the contingency theory approach of Khandwalla (1977) and Venkatraman (1989) we consider the contextual impact on the relationship of EO and FP to be moderating variables. Figure 1 depicts the conceptual model of this study that builds upon prior work of Lumpkin and Dess (1996).

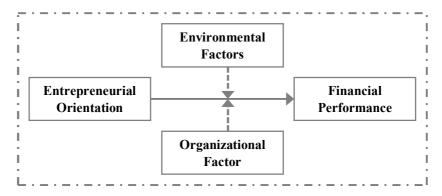


Figure 1. Contextualization of the EO – FP relationship (modified from Lumpkin & Dess, 1996)

EO as a variable is divided into three predictors – innovativeness, risk-taking, and proactiveness – according to Miller's model (1983) composing a unidimensional variable. Thus, we do not treat the three indicators as separate variables, but as a conceptual entity. Two indicators, namely profitability and growth, capture the FP variable. Indeed, according to its psychometric characteristics. Nonetheless, due to the predictor duo, the construct identifies two dimensions, which are crucial to capturing a more depth understanding of financial performance (Murphy, Trailer & Hill, 1996). We adopt the scales for profitability from Venkatraman (1986). These include 'return on corporate investment' and 'return on investment relative to competitors'; however we applied only the latter to avoid a posteriori item removal due to an overlapping nature.

The moderator variables are divided into two main groups: organizational or internal factors, and environmental or external factors (Lumpkin & Dess, 1996). In this study we consider one organizational factor; firm age (FA), and two environmental one; namely environmental hostility (EH) and environmental dynamism (ED).

EH characterizes the external environment of organizations and is assessed by four items – safety level of the external environment, investment opportunities, dominative nature of the business environment, and the threatening degree of competitors' actions. The wordings are adapted from Khandwalla (1977), with a minor modification readjusted from Miller's (1987) hostility scale.

Four items capture the ED in which the firms operate. The first addresses the external environment from decreased growth opportunities to increment in those opportunities. The second item scales the environment properties from diminution of product/service technology to increment of those. The third item challenges the environment on a scale starting from a high rate of innovation of processes and products/ services to the low rate of those. The fourth item assesses the R&D rate from high to low in the firm's principal industry. All four indicators are adapted from Miller's (1987) environmental dynamism scale.

These indicators build a complex conceptual framework, where all the exogenous variables and their influence can be acknowledged on the endogenous financial performance outlined in Figure 2.

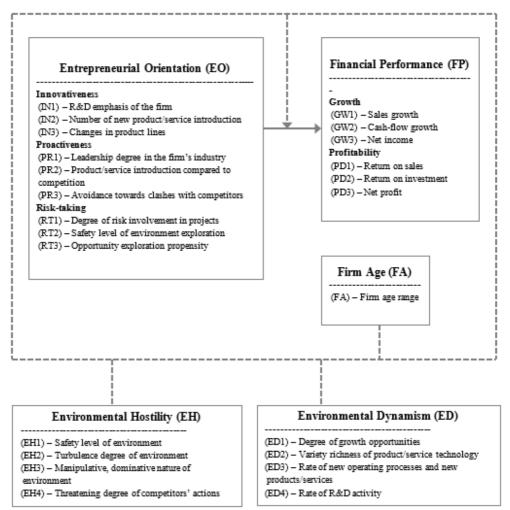


Figure 2. Conceptual model

The conceptual framework embraces only one direct causal relationship from EO to FP (H_1) . The impact of the other exogenous constructs is assumed to moderate this causal relationship (H_2-H_4) . Our hypotheses follow the Bourgeois' (1980) strategic management literature distinction between content and process of entrepreneurship. In the early stages, entrepreneurship was adequate with "going into business" and "what kind of business shall we launch?" Alongside with the field development of strategic management, emphasis reallocated to entrepreneurial processes embracing risk-taking, experimenting with existing and future technologies and adopting propensity to seize new opportunities (Bourgeois, 1980; Lumpkin & Dess, 1996). The distinctive point between the two concepts is hidden in the decoupling of "what" from "how" (Miller, 2011). Consequently, we define EO aligned to Miller's (1983) and Covin and Slevin's (1991) standpoint as a marriage of firm level "entrepreneurial behavior and managerial inclination at the strategic decision-making level, favoring actions with uncertain outcome" (Anderson et al., 2015).

Table 1. Research hypotheses

Hypothesis number	Hypothesis dimension(s)	Regression analysis type	Textual formulation
H ₁	EO	Linear	Firms with higher EO have a better performance than the ones with lower EO.
H _{2a}	EO, ED	Moderated	The dynamic environment has a positive moderating effect on the entrepreneurial orientation-performance relationship.
H _{2b}	ЕО, ЕD	Moderated	The static environment has a negative moderating effect on the entrepreneurial orientation-performance relationship.
H _{3a}	EO EU	Moderated	The hostile environment has a positive moderating effect on the entrepreneurial orientation-performance relationship.
Нзь	ЕО, ЕН	Moderated	The benign environment has a negative moderating effect on the entrepreneurial orientation-performance relationship.
H _{4a}	EO, FA	Moderated	Higher firm age has a negative moderating effect on entrepreneurial orientation-performance relationship.
H _{4b}	LO, l'A	Moderated	Lower firm age has a positive moderating effect on entrepreneurial orientation-performance relationship.

All research hypotheses are in line with prior research (Zahra & Covin, 1995; Wiklund & Shepherd, 2005; Ha-Brookshire, 2009; Rauch et al., 2009; Miller, 2011; Anderson et al., 2015). In case the H_1 will be rejected, the model would not fit the data. If H_1 is supported by the data, this model provides us with a suited foundation for testing the contextual hypotheses H_2 - H_4 of moderating effects of EO in the Hungarian economy. Table 1 gives an overview of the research hypotheses.

Study design and data description

EO as a strategic behavior is measured on the organizational level, therefore from just one answer per company is required to represent the organization. To investigate EO of a business through top management is a typical and accepted approach (Covin & Slevin, 1989). Literature suggests that subjective measures of performance can reflect objective measures accurately, thus enhancing validity and reliability (Dess & Robinson, 1984; Venkatraman & Ramanujam, 1986). Primarily owners and C-level managers are targeted with the survey; however, the reachability of those people might be cumbersome. Therefore, upper- and middle manager layers were involved in the sample target to ensure a wider attainability and in order to maintain enough responses.

A self-administrated online questionnaire covering 26 questions facilitates the data gathering of this study. Pretesting feedback of 20 respondents supports an open-and-shut completion procedure. Our stratified sampling builds upon the population of all Hungarian companies independently from their size, revenue or any measurable features. We spread the link to our online questionnaire among all Hungarian SMEs listed in the Amadeus database. Company size by means of a number of employees (assessed by means of full-time equivalents) serves as the control variable of the study

in order to create the stratified sample. We used the distinction between micro enterprises (fewer than 10 persons employed), small enterprises (10 to 49 persons employed), and medium-sized enterprises (50 to 249 persons employed). We successfully invited 58 respondents. The majority (approximately 57%) were C-level managers. 31% of the answers came from upper managers, while approximately 12% of middle managers. Almost 88% of the responses come from the top or upper managers providing high reliability of the answers.

Medium-sized companies with 41 (70.7%) in number dominate the sample. Small (22.4%) and micro (6.9%) companies are the tails of the distribution matching the distribution of company size of the population of the basic database. The most frequent mentioned industries are agriculture, machinery engineering, wholesale & retail, food & beverage and IT.

We use Cronbach's alpha coefficient to assess the internal reliability (Hair et al., 2014). Table 2 shows that the internal consistency of the scales meets the minimum required threshold of .7.

Table 2. Internal consistency reliability

Name of the Variable	Number of Items	Cronbach's Alpha
Entrepreneurial Orientation (EO)	9	.855
Financial Performance (FP)	6	.855
Environmental Hostility (EH)	4	.813
Environmental Dynamism (ED)	4	.719

Results

Using Smart PLS 3 (Ringle, Wende & Becker, 2015) for analysis, the results show that EO has a positive effect on the financial performance of an organization. Please see the appendix for the structural model (Figure 3) as well as the Heterotrait-Monotrait Ratio (Table 4). Distinct regression analyses revealed that EO explains 23.5% of the variance of the financial performance of organizations (β = .485, t-value = 4.56). With a p-value of <.001 H_1 is accepted.

Regarding hypothesis two to four, no significant moderating effects are found. The moderate regression analysis reveals a correlation between the relation of ED and EO. However, the analysis indicates that the used interaction term is neither significant nor has a relevant beta coefficient. Significant moderation effect of EH on the linear model of EO-FP cannot be observed. Lastly, the hypothesized moderating effect of the firm's age on the relationship of EO to FP could not be validated. Given this, we conclude that the aforementioned hypotheses (H_2 - H_4) must be rejected. The following Table 3 gives an overview of the hypothesis test results.

Table 3. Summary of the hypotheses evaluation

Hypothesis number	Hypothesis dimension(s)	Regression analysis type	Textual formulation	Hypothesis accepted / rejected
Н1	EO, FP	Linear	Firms with higher EO have a better performance, than the ones with lower EO.	ACCEPTED
Н2а	EO, ED, FP	Moderated (multiple)	The dynamic environment has a positive moderating effect on the entrepreneurial orientation-performance relationship.	REJECTED

H2b		Moderated (multiple)	The static environment has a negative moderating effect on the entrepreneurial orientation-performance relationship.	
НЗа	EO, EH, FP	Moderated (multiple)	The hostile environment has a positive moderating effect on the entrepreneurial orientation-performance relationship.	REJECTED
НЗЬ	EO, EH, FF	Moderated (multiple)	The benign environment has a negative moderating effect on the entrepreneurial orientation-performance relationship.	REJECTED
Н4а	EO, FA, FP	Moderated (multiple)	Higher firm age has a negative moderating effect on entrepreneurial orientation-performance relationship.	REJECTED
H4b	со, га, гР	Moderated (multiple)	Lower firm age has a positive moderating effect on entrepreneurial orientation-performance relationship.	KEJECTED

Surprisingly environmental factors do not influence the relationship of EO and FP. In the following section, we contextualize reasons for the specific case of Hungary.

Conclusion

The major contributions of this paper are first, testing the relationship of EO to FP in a post-soviet economy. Behavior patterns in post-soviet transition economies substantially depart from westernized strategic management. EO has become one of the main topics in strategic entrepreneurship research (Anderson et al., 2015).

Second, we adapt established processes in contingency theory and relate the financial performance to both causal facets of EO as well as the business environment by means of EH and ED. The latter might carry risks, but at the same time may provide opportunities for development and growth. Hypotheses of this study are anchored around contingency theory due to the adaptation provoking nature of EO.

Third, we investigate EO as a strategic orientation on a business level and test how that organizational behavior affects the financial performance. This allows the measurement unit to determine EO as a macro-level phenomenon and to deliver a more stable relationship with financial performance (Covin & Slevin, 1991). In this study, EO covers as a unidimensional construct composed of risk-taking, innovativeness, and pro-activeness excluding aggressiveness and autonomy. The preeminent interest in entrepreneurship research derives from the global belief that it has a stimulating impact on the development of economy and organizational entities. Business performance provides the real test of any strategic pattern a firm might employ, independently if the chronological interval of the research is longitudinal or short-term. Literature suggests that there is a positive effect on FP coming from EO as a firm-level behavior. However, dissimilar contextual factors are critical to take into consideration. H₁ is supported by the Hungarian data. Consequently, we confirm the expectation that EO serves as a catalyst for financial performance of organizations in a post-socialist context. This finding complements prior Western strategic management knowledge (Covin & Slevin, 1991; Wiklund & Shepherd, 2005), and pushes out the contextual reference. This extends the universal body of this type of studies.

However, this conceptual model might be too simple and would be easily obtainable by organizations, thus the argument of Lumpkin and Dess (1996) is taken into account.

They argue that the impact of EO on performance is context-specific and therefore the model should consider different factors originating from the inside or outside. The dynamic nature of external and internal factors forces an unpredictable change in a turbulent environment, which most of the time undermines the entrepreneurs' ability to envision the future (Lumpkin & Dess, 2001; Khandwalla, 1977). As a second assessment of the external environment, hostility is the counterpart of munificence and measures the degree of competition intensity and scarcity (Lumpkin & Dess, 2001; Zahra & Covin, 1995). Notably, all hypotheses connected with ED or EH – H_{2a} , H_{2b} , H_{3a} and H_{3b} – are rejected. The denial is surprising considering the development of the Hungarian economy in the past decades. Although Hungary has transformed from a centrally operated communist economy to a free capitalist market, the development does not have a moderating effect on the EO-FP relationship. Further research is necessary in order to document further changes and the turning point of this development.

Fourth, to the best of the authors' knowledge, firm age with its effect on the EO-FP relationship has never been studied as an internal factor of organizations in Hungary before. However, the linear structure of firm age is debatable. "An organization grows more or less continuously, but its structure is changed only in discrete steps" as stated by Mintzberg (1979, p.232). Therefore, the investigation of FA and its moderating effect fulfills an unexplored gap inside strategic entrepreneurship research, and in addition, it opens up new discussions such as its inclusion with other moderators or variables. Despite the circumscribed theoretical background, the fact of rejection of H_{4a} and H_{4b} might derive from two distinct or parallel causes. In Hungary, the general company structural change is differently related to time development on an imagined chronological axis, or the prescribed structure-firm age relationship is not significant enough. The two might reinforce each other and output a strengthened negative influence.

References

- Anderson, B., Kreisen, P., Kuratko, D., Hornsby, J., & Eshima, Y. (2015). Reconceptualizing entrepreneurial orientation. *Strategic Management Journal*, 36(10), 1579–1596.
- Bourgeois, L.J. (1980). Strategy and environment: A conceptual integration. *Academy of Management Review*, 5(1), 25-39.
- Commission of the European Communities (2004). *Action Plan: The European Agenda for Entrepreneurship*. Retrieved from ftp://ftp.cordis.europa.eu/pub/incubators/docs/action_plan_on_entrepreneurs hip.pdf.
- Covin, J.G., & Slevin, D.P. (1986). The development and testing of an organizational-level entrepreneurship scale. In Ronstadt, R., Hornaday, J. A., Peterson, R., & Vesper, K.H. (Eds.), *Frontiers of Entrepreneurship Research* (pp.628–639), Wellesley, MA: Babson College.
- Danis, M., & Shipov V. (2002). A comparison of entrepreneurship development in two post-communist countries: the cases of Hungary and Ukraine. *Journal of Developmental Entrepreneurship*, 7(1), 67–94.
- Dess, G., & Robinson, R. Jr. (1984). Measuring organizational performance in the absence of objective measures: the case of the privately-held firm and

- conglomerate business unit. *Strategic Management Journal*, 5(3), 265–273.
- Filley, A.C., & House, R.J. (1969). Managerial process and organizational behaviour. Glenview, Ill: Scott Foresman.
- Ha-Brookshire, J.E. (2009). Does the firm size matter on firm entrepreneurship and performance? US apparel import intermediary case. *Journal of Small Business and Enterprise Development*, 16(1), 132–146.
- Hair, J.F., Sarstedt, M., Hopkins, L., & Kuppelwieser, V.G.. (2014). Partial least squares structural equation modeling (PLS-SEM) An emerging tool in business research. *European Business Review*, 26(2), 106-121.
- Hermann, F., Alexander, K., & Matthias, F. (2010). Entrepreneurial orientation and business performance a replication study. *Schmalenbach Business Review*, 62(2), 175-198.
- Khandwalla, P. (1977). *The Design of Organizations.* New York: Harcourt Brace Jovanovich Inc.
- Kelley, D.J., Singer, S., & Herrington, M. (2015). The Global Entrepreneurship Monitor–2015/16 Global Report. Retrieved from http://www.gemconsortium.org/report/49480.
- Knight, G.A. (1997). Cross-cultural reliability and validity of a scale to measure firm entrepreneurial orientation. *Journal of Business Venturing*, 12(3), 312–225.
- Laukkanen, T., Nagy, G., Hirvonen, S., Reijonen, H., & Pasanen, M. (2013). The effect of strategic orientations on business performance in SMEs: A multigroup analysis comparing Hungary and Finland. *International Marketing Review*, 30(6), 510–535.
- Lumpkin, G.T., & Dess, G.G. (1996). Clarifying the entrepreneurial orientation construct and linking it to performance. *Academy of Management Review*, 21(1), 135–172.
- Lumpkin, G.T., & Dess, G.G. (2001). Linking two dimensions of entrepreneurial orientation to firm performance: the moderating role of environment and industry life cycle. *Journal of Business Venturing*, 16(5), 429–445.
- Marcotte, C. (2011). Country entrepreneurial profiles: assessing the individual and organizational levels of entrepreneurship across countries. *Journal of Enterprise Culture*, 19(2), 169–200.
- Miller, D. (1983). The correlates of entrepreneurship in three types of firms. *Management Science*, 29(7), 770-791.
- Miller, D. (1987). The structural and environmental correlates of business strategy. *Strategic Management Journal*, 8(1), 55-76.
- Miller, D. (2011). Miller (1983) revisited: a reflection on EO research and some suggestions for the future. Entrepreneurship: Theory & Practice, 35(5), 873-894.
- Mintzberg, H. (1979). *The structure of organizations*. Englewood Cliffs, NJ: Prentice-Hall
- Murphy, G.B., Trailer, J.W., & Hill, R.C. (1996). Measuring performance in entrepreneurship research. *Journal of Business Research*, 36(1), 15–23.
- Schuster, O., Falkenreck, C., & Wagner, R. (2015). Entrepreneurial marketing in the last decade a literature review. In *Proceedings of the 10th European Conference on Innovation and Entrepreneurship* (pp.644-654). Reading, UK: Academic Conferences and Publishing International.
- Rauch, A., Wiklund, J., Lumpkin, G.T., & Frese, M. (2009). Entrepreneurial orientation and business performance: An assessment of past research and suggestion for the future. *Entrepreneurship: Theory & Practice*, 33(3), 761-787.
- Ringle, C.M., Wende, S., & Becker, J.-M. (2015). SmartPLS 3. Boenningstedt: SmartPLS

- GmbH, http://www.smartpls.com.
- Slevin, P., & Terjesen, A. (2011). Entrepreneurial Orientation: Reviewing Three Papers and Implications for Further Theoretical and Methodological Development. *Entrepreneurship Theory and Practice*, 35(5), 973–987.
- Thomas, A.S., & Mueller, S.L. (2000). A case for comparative entrepreneurship: Assessing the relevance of culture. *Journal of International Business Studies*, 31(2), 287–301.
- Venkatraman, N. (1989). The concept of fit in strategy research: toward verbal and statistical correspondence. *Academy of Management Review*, 14(3), 423-444.
- Venkatraman, N., & Ramanujam, V. (1986). Measurement of business performance in strategy research: A comparison of approaches. *Academy of Management Review*, 11(4), 801-814.
- Wiklund, J., & Shepherd, D. (2005). Entrepreneurial orientation and small business performance: A configurational approach. *Journal of Business Venturing*, 20(1), 71–91.
- Zahra, S.A., & Covin, J.G. (1995). Contextual influences on the corporate entrepreneurship, performance relationship: A longitudinal analysis. *Journal of Business Venturing*, 10(1), 43-58.
- Zulauf, K., Brockhaus, D., Schuster, O., Raab, K., Ürkmez, T., Keul, M., & Wagner, R. (2015) BoP and Entrepreneurship: The Intersection of Two Research Paths. In *Proceedings of the 10th European Conferences in Innovation and Entrepreneurship* (pp.749–756). Reading, UK: Academic Conferences and Publishing International.

Appendix

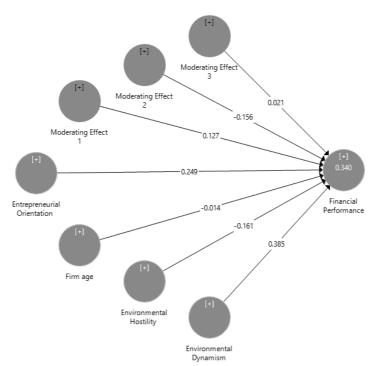


Figure 3. Structural model

Table 4. Summary of the Heterotrait-Monotrait Ratio

	Entrepreneurial	Environmental	Environmental	Financial
	Orientation	Dynamism	Hostility	Performance
Entrepreneurial				
Orientation				
Environmental	0.667			
Dynamism				
Environmental	0.260	0.213		
Hostility				
Financial	0.451	0.555	0.186	
Performance				
Firm age	0.300	0.178	00.58	0.151