

Social entrepreneurship orientation and company success: The mediating role of social performance

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ABSTRACT

We examine the impact of social entrepreneurship orientation (SEO), a behavioral measure of the social entrepreneurship of the organization, on the social and financial performance of a sample of Austrian firms. Despite growing research interests in social entrepreneurship, the field remains fragmented and this has led to calls for a careful examination of the implications of social entrepreneurship for firms. We draw on stakeholder theory and hybrid organizing to hypothesize that social performance mediates the SEO-financial performance relationship. By analyzing a sample of 1,156 companies, we find that the SEO-financial performance relationship is partially positively mediated by social performance even though the direct effect is negative. Our results find that social performance compensates for the otherwise negative effect SEO has directly with financial performance. We contribute to an understanding of the mechanisms by which an SEO affects firm performance and provide richer insights into the various aspects of performance. We discuss the future implications of our study and suggest promising avenues for further research on the SEO construct.

Keywords: Social entrepreneurship orientation, hybrid organizing, social performance, financial performance, empirical, mediation

INTRODUCTION

The literature on social entrepreneurship (SE) is growing rapidly (Halberstadt & Kraus, 2016; Sassmannshausen & Volkmann, 2018; Semrau et al., 2016; Sutter et al., 2019). For the last decade, research on SE has specifically focused on its role in enabling social value creation and stimulating social change, particularly within the emerging economy context (Del Giudice et al., 2019; Rao-Nicholson et al., 2017). Indeed, Ferreira et al.'s (2019) recent bibliometric analysis of the scientific structure of entrepreneurship research revealed six underlying theories of entrepreneurship which identified social entrepreneurship theory as one of the 6 founding blocks of entrepreneurship research. However, despite the growth in SE research, few studies have sought to understand the pathway from a social entrepreneurship orientation (SEO)¹ to financial performance (one of the notable exceptions being the recent study of Halberstadt et al., 2020). This paper addresses this research gap by examining the mediating effect of social performance on the SEO-financial performance relationship. To the best of our knowledge, our paper is the first to investigate and reveal the distinctive pathway of SEO to financial performance. We do so using a large-scale sample of 1,156 Austrian firms. Neither a large-scale study of SEO nor its distinct pathway to firm performance have been previously investigated. This is timely, necessary, and of utmost importance because of the potential conflict this strategic posture may bring to bear on the commercial, financial profit-maximizing efforts of the firm.

¹ Social entrepreneurship orientation (SEO) is an entrepreneurial activity that is driven by the attainment of social value creation, which is comprised of the behaviors: social innovativeness, social proactiveness, social risk taking, and socialness. To the extent that it is a social-oriented facsimile of the classic entrepreneurial orientation construct, the strategic posture differs through its emphasis on the social over (solely) the commercial.

Recognizing that the increasingly complex socio-political and environmental context has permitted an abundance of social problems, SEO has emerged as a challenge to the convention of traditional business activities with the potential of addressing these. SEO embodies an underlying purpose of achieving social impact, in which SEO behaviors seek to address societal challenges (Austin et al., 2006; Lumpkin et al., 2018; Ramani et al., 2017) to achieve “beneficial outcomes resulting from prosocial behavior that are enjoyed by the intended targets of that behavior and/or by the broader community of individuals, organizations, and/or environments (Rawhouser et al., 2019, p. 2).” Common to the understanding of SEO by scholars is its ‘hybrid’ nature by merging a social mission with entrepreneurial processes and activities (Saebi et al., 2019). That is, SEO is an entrepreneurial behavior that results in a ‘hybrid’ form within firms in which the creation of social value is through market-based methods (Miller et al., 2012). Thereby, SEO involves hybrid organizing, which refers to “activities by which firms make sense of and combine multiple forms” (Battilana & Lee, 2014, p. 129) or “the mixing of firm elements that would not conventionally go together (Battilana et al., 2017, p. 129). Previously, researchers have assumed that firms primarily serve either of two functions—a social or an economic function (two pure forms that would compete in a hybrid firm) (Pache & Santos, 2013)—and have focused on the tensions between social and economic orientations. These purported tensions can disrupt resource allocation (Smith et al., 2013) and decrease firm efficiency (Fiol et al., 2009). We suggest that SEO reconciles the hybrid tensions of social value creation and economic value capture and allows firms to address economic and social problems within society, and by doing so, social and economic objectives become complementary

rather than competing' (Tobias et al., 2013). However, the performance effects of SEO and the mechanisms by which it may generate financial performance remain poorly understood.

Compounding this problem, existing research is plagued by an unclear conceptualization of SEO, a problem that has stemmed because the construct of SEO has originated from a diverse range of disciplines and fields (e.g. entrepreneurship, sociology, ethics, economics) (Saebi et al., 2019). The literature on SEO has been characterized by a debate of its definition (Choi & Majumdar, 2014), its theoretical underpinnings (Santos, 2012), and associated methodological challenges (Stevens et al., 2015). Concerning its definition, most research to date has sought to transfer entrepreneurial orientation into social contexts to help explain the SEO construct (Alarifi et al., 2019; Guo & Bielefeld, 2014; Santos, 2012). Thus, there has been limited attention to what constitutes the SEO construct such that scholars have defined SEO in basic terms as non-profit entrepreneurial orientation (Dwivedi & Weerawardena, 2018). As the conceptualization of SEO remains unclear, this not only hampers the advancement of our understanding of the phenomenon, it also halts the growth of cumulative knowledge on SEO and of establishing it as a distinct construct in its own right (Saebi et al., 2019). We argue that such an approach underplays the strategic effects of a SEO and fails to recognize that the behaviors encouraged by a SEO may be different from those resulting from an orientation largely focused on profit (Kraus et al., 2017). Concerning the methodological challenges in SE research, while previous research has advocated for the use of similar measurements from the entrepreneurship disciplines to advance the SE field (Short et al., 2009), this masks the uniqueness of the SEO construct (Lurtz & Kreutzer, 2017). Thereby, existing measurements of the SEO construct are insufficient and do not adequately reveal the

causal mechanisms of the SEO construct in comparison to other established phenomena (Saebi et al., 2019). As this research gap persists, the most pressing aspect of the problem to pursue is to test the distinct mechanism through which SEO affects financial performance.

This study provides empirical support for the mechanism through which SEO impacts financial performance. We follow a middle ground between the advocated view of utilizing theories from other fields (i.e. stakeholder theory and the hybrid organizing perspective) and the need to capture the uniqueness of the SEO construct to advance the SE field (Dwivedi & Weerawardena, 2018). Accordingly, our approach builds on previous research while revealing the inconsistencies and the need to build a separate conceptualization of SEO.

The rationale for this study is two-fold: (1) to warrant a conceptualization of SEO, and (2) to reveal the underlying relationship between SEO and financial performance. Even though SEO is often considered to be an expansion of the notion of entrepreneurship, it is a unique construct that requires clarity in its conceptual parameters and its measurement. Providing this clarity can stimulate a stream of research that would help build cumulative insights to eventually help in advancing and legitimizing social entrepreneurship research. Indeed, among the majority of the papers on SE, a minority have sought to theorize and provide a separate measurement of SEO from commercial entrepreneurship (Kraus et al., 2017).

THEORETICAL FRAMEWORK

Social Entrepreneurship Orientation

Although the concept of social entrepreneurship has been present since the 1950s (Bowen, 1953), it has gained an exponential increase in attention only within the past decade (Saebi et al., 2019; Sassmannshausen & Volkmann, 2018). The reasons for this attention is because social entrepreneurship has been shown to be: a powerful mechanism to combat extreme poverty (Sutter et al., 2019), a catalyst in transforming social systems (Alvord et al., 2004), a force of institutional change (Cajaiba-Santana, 2014; Nicholls, 2008), and a major factor fostering economic growth and development in subsistence markets (Azmat et al., 2015).

Based on models of social and commercial firms that distinguish companies from purely philanthropic, hybrid, or profit-oriented firms, SEO is distinct by its attempt as a socially-oriented and a profit-generating form of entrepreneurship (Dees, 2001; Swanson & Zhang, 2011). SEO, as a hybrid form of entrepreneurship within firms, emerged due to institutional voids. A newly emerged organization, the hybrid firm, rests on social entrepreneurial actions (i.e. SEO behaviors), which involve the transformation of existing established institutions in ways that will diverge from the status quo (Austin et al., 2006; Doherty et al., 2014; Maguire et al., 2004). Further, such hybrid firms' identity is dual and is formed from the blending of economic and social imperatives (Moss et al., 2011). The institutional entrepreneurship perspective explains that the lack of government funding and reduction of private donations impact the viability of non-profit organizations (NPOs) (Dart, 2004) and thus, a new form of NPO emerges from the complex social entrepreneurial actions of the existing institutions (Ko & Liu, 2020). This new form of

NPO is considered as a hybrid firm that employs SEO (Fitzgerald & Shepherd, 2018), which is more entrepreneurial, business-like, and market-oriented (Maier et al., 2016) and is social mission driven *and* focused on generating revenues from commercial activities. Such firms, which seek to address social and environmental challenges by engaging in entrepreneurial actions have been growing in number and many firms are now shifting their focus to include social and financial benefits (Nicholls, 2008). The complexity lies in the potential tension at the heart of these hybrid firms between the social and the financial.

SEO is a multi-dimensional construct in that (a) its dimensions involve entrepreneurial behaviors (innovativeness, proactiveness, and risk taking) and (b) it includes a social mission dimension which represents the virtuousness of a SEO (Weerawardena & Mort, 2006). Social entrepreneurs engage in entrepreneurial behaviors including innovation, opportunity identification and exploitation, and mobilization of resources around a technological solution (Ratinho et al., 2015); but social entrepreneurial behaviors are mainly utilized to achieve the social mission and in which the identification of entrepreneurial revenue-generating opportunities is derived from societal problems (Ramani et al., 2017). Thus, distinguishably, social entrepreneurial behaviors lead to social value creation and financial benefits (Bacq et al., 2016) in an implied chain that begins with the social element.

In the SE literature, the limiting factor in advancing the SEO construct is its heterogeneity, in which different phenomena are placed under the same conceptual umbrella, for which they might not belong, and as such this complicates the meaningfulness of comparing the different findings among SE articles (Saebi et al., 2019). Because of this heterogeneity, SE is a difficult field to grasp and leads to challenges in

advancing the scholarly research on the SEO construct. The problem is that scholars have not clarified the nature of SEO and there is no clear boundary with related constructs.

Distinguishing SEO from Related Concepts

While the use of the term ‘social entrepreneurship’ is rapidly expanding, there remains little consensus over its definition (Austin et al., 2006; Halberstadt & Kraus, 2016; Rao-Nicholson et al., 2017; Von der Weppen & Cochrane, 2012; Zahra et al., 2014). The SEO construct is, at its essence, a “contested concept” (Choi & Majumdar, 2014, p. 372) and “there is no definitive consensus to what the term actually means” (Nicholls, 2010, p. 611). As noted by Saebi et al. (2019, p. 3), “there is no agreed-on definition and clear dimensionalization of the social entrepreneurship construct”. A robust conceptualization of SEO is needed to highlight the significance of the orientation adopted by firms and to recognize the value of such an orientation (Short et al., 2009). To address this, we seek to clarify the boundaries of SEO from similar concepts that are often used interchangeably in the literature. The blending of social and economic performance is what sets SEO apart from firm-level activities that are dominated by an economic objective (commercial entrepreneurship) or solely social objectives (non-profit/philanthropic firms) (Saebi et al., 2019). We argue that there should be a uniform conceptualization of SEO that would allow methodological progress and aid in empirical measurement of the construct (Sassmannshausen & Volkmann, 2018).

The boundaries between non-profit firms and SEO have been blurred. Non-profit firms seek to attain social value in an effort to fulfill the needs of the broader society including those in need (Certo & Miller, 2008). While non-profit firms may generate

revenue by engaging in social activities of fundraising or by generating donations, such revenues are limited to a specific program encompassing a certain duration and are not recurring activities or sustained over time, a defining characteristic of entrepreneurial behaviors. We consider SEO to be a strategic, behavioral, firm-level construct in line with behavioral entrepreneurship theory. An essential aspect of entrepreneurial behaviors is that they must be consistently and recurrently exhibited over time to form an orientation (Covin & Slevin, 1991). Thus, this study does not examine the effect of entrepreneurial behaviors within non-profit firms to signify SEO; instead, it establishes a separate conceptualization of SEO and examines its impact within firms whose income generating activities have a long-term strategic orientation with revenue targets that are measurable (Saebi et al., 2019).

Further, the boundaries between SEO and corporate social responsibility (CSR) have not been delineated, in which some researchers define SEO as activities of conventional entrepreneurship with a CSR component (Surie, 2017). CSR is defined mainly as social activities that aim to benefit society, yet CSR does not necessarily translate into innovative activities and entrepreneurial actions, and generally represents societal engagement of firms (Shepherd & Patzelt, 2011). CSR starts with the firm's current activities followed by how they can be better targeted to stakeholders to create a profit. SEO on the other hand starts with targeting a social unmet need, which also represents opportunities that are profitable (Zahra et al., 2014).

Likewise, even though social entrepreneurship is considered as an expansion to the notion of entrepreneurship, it extends beyond the boundaries of traditional entrepreneurship literature (Dwivedi & Weerawardena 2018; Saebi et al., 2019). The

inclusiveness of SEO within firm-level activities has made it challenging for scholars to demarcate SEO from entrepreneurial orientation, in which the EO scale has been used to measure SEO. Thus, past studies have failed to establish a distinct conceptualization of SEO to understand what performance effects are encouraged by SEO (Duvnäs et al., 2012; Miles et al., 2013). For instance, Duvnäs et al. (2012) used the Covin and Slevin (1989) scale to measure the social innovation orientation, even though these items essentially measure the innovation dimension of EO. Furthermore, Kuratko et al. (2017) pilot tested a social entrepreneurship scale by adapting their commercial entrepreneurship scale. A major drawback is that some dimensions of the commercial entrepreneurship scale are inadequate to capture the unique context of SEO. This has added more ambiguity to the SEO construct and researchers have considered that SEO is not a unique construct from commercial entrepreneurship (Dacin et al., 2010). There is a need to establish a conceptual distinction between SEO and commercial entrepreneurship and to develop a measurement scale for SEO. SEO is different from traditional entrepreneurship given its combination of entrepreneurial thinking and social mission (Leadbeater, 1997; Mort et al., 2003; Weerawardena & Mort, 2006). In particular, Dees (2001), explained concisely that social entrepreneurship is associated with: (a) adoption of a mission to create and sustain social value; (b) recognition and persistent pursuit of new opportunities to serve that mission; (c) engagement in a process of constant adjustment and learning; (d) acting without being limited by resources currently in hand; and (e) exhibiting an increased sense of accountability to the constituencies the firm serves and for the outcomes it creates. At the level of the firm, this suggests that firms adopting SEO aim for the creation of social value as a pathway to wider wealth creation for both the firm and society.

Social entrepreneurship orientation and Social Performance

Social entrepreneurially oriented behaviors are distinct by their combination of social mission with entrepreneurial actions to achieve sustainability for hybrid firms. These hybrid organizations are emerging due to government voids/failures and the unwillingness of the private sector to address the unmet social challenges. At its core, SEO activities involve social value creation (Chell et al., 2016), in which the notion of generating social value is a common theme in the definitions of social entrepreneurship (Dacin et al., 2010). The social value proposition of SEO refers to the ability of SEO to “create social value by stimulating social change or meeting a social need” (Mair & Marti, 2006, p. 37). Thus, the social value proposition of SEO, its ‘steering axle’, represents the intended promise of a hybrid firm, when employing SEO, in providing value for its beneficiaries (Covin et al., 2015). At its essence, it refers to the value that social entrepreneurial actions provide for a target market (Kraus et al., 2014). The social impact of a hybrid firm relies on its ability to derive benefits from SEO to its various beneficiaries and in adjusting its social value proposition to maximize value for its intended targets and as well as the ecosystem.

SEO serves to accomplish competing goals by prioritizing social value creation above financial performance. Social value creation refers to organizational effectiveness in addressing the social issue(s) that align with the goals of a hybrid firm (Kroeger & Weber, 2014). It occurs when the hybrid firm “achieves an equivalent social benefit with fewer dollars or creates greater social benefit for a comparable cost” (Porter & Kramer, 1999, p. 126). Hybrid firms that employ SEO aim to achieve their social mission and strive to

create social value while seeking to maintain their viability through profits that are generated in an entrepreneurial and innovative way (Certo & Miller, 2008).

Social value creation is the result of the decision-making activities and practices of the firm that involve SEO behaviors and the exploration of new avenues to offer innovative solutions to societal challenges. In the context of hybrid firms, we take a stakeholder perspective on social welfare and question the assumption that all human behavior is solely motivated by self-interests, in which the purpose of the hybrid firm in employing SEO is achieving social welfare which promotes the employees of the firm to transcend their self-interests (Bridoux & Stoelhorst, 2016).

When a hybrid firm engages in social entrepreneurial behaviors, a deliberate effort is made to integrate social awareness into the business model (Dees, 2001). The strategic imperative of a SEO is on taking risk to proactively develop new initiatives that meet its social mission in a way that is sustainably viable. When the firm exhibits SEO, the firm's priorities shift away from a performance target of only full profit maximization towards a more rounded model of firm performance that prioritizes social performance. Stakeholders are active agents in monitoring and challenging firms, and they impact the relationship between SEO behaviors and firm performance and push firms to strategically create societal benefits without an actual mandate from stakeholders (Zahra & Wright, 2016).

The creation of social wealth from SEO is significant in characterizing socially entrepreneurially oriented behaviors within firms (Mort et al., 2003). Firms that engage in SEO behaviors generate social value that is exchanged with their stakeholders and society. Enhancing social welfare and developing the community for a hybrid firm that engages in

SEO is not a discretionary activity, but a strategic imperative for such firms employing SEO to be proactive in addressing societal concerns.

This prevailing logic leads to:

Hypothesis 1: Social entrepreneurship orientation has a positive relationship with social performance.

Social Performance and Firm Financial Performance

To explain the social-financial performance relationship, we rely on stakeholder theory, a dominant strategic approach in the social issues' literature (Goldsby et al., 2018). Previous researchers have defined and examined stakeholder considerations from multiple aspects (Donaldson & Preston, 1995), including both a normative perspective (i.e. explaining why stakeholder relationships would impact the firm), and a descriptive one (describing how stakeholder relationships are taken into account). We adopt an instrumental approach (examining the benefits of considering stakeholder interests) within strategically oriented hybrid firms², in which social performance is instrumental to higher financial returns (Jones, 1995), and based on the basic premise that successful outcomes from social performance are related to the extent to which the firm manages the interests of its direct and wider array of stakeholders (Van der Laan et al., 2008).

Instrumental stakeholder theory considers that socially responsible and responsive organizations are better able to navigate complex webs of stakeholder relations (Rahman et al., 2020; Rowley, 1997). When hybrid organizations engage with different stakeholders

² Strategically oriented hybrid firms are those that, upon making a social investment, also obtain additional benefits such as better reputation, differentiated products, and achieve greater profitability.

in meaningful ways (Hillman & Keim, 2001), they enhance their legitimacy (Suchman, 1995), develop a positive reputation (Orlitzky, 2008), boost product–market-based performance (Rahman et al., 2020), and ultimately, enhance their financial viability (Mahon, 2002). A theoretical model that adopts the strategic or instrumental approach to the effect of social performance on financial performance was outlined by Husted and De Jesus Salazar (2006). In this model, strategically oriented hybrid firms obtain benefits from social investments (either through generation of ‘social goods’ from the provision of scholarships or through the reduction of ‘social bads’) (Rawhouser et al., 2019).

Firms and markets are infused with a variety of values and not only economic value structures (Orlitzky, 2011). Markets are embedded in broader social systems (Whittington, 1992). Thus, firms cannot lose sight of broader community-level goals or firms may otherwise risk losing their legitimacy (Suchman, 1995) especially among increasingly socially sensitive customers (Rahman et al., 2020). Yet, in strategically oriented hybrid firms, social entrepreneurial activities are not altruistic, but are strategic to (in principle) and can enhance or at least affect financial performance (Saebi et al., 2019). A non-profit firm might intend to maximize social output from social projects, but its intent is not to realize profits from its social investments and thereby it is less likely to achieve financial benefits in comparison to a strategically oriented hybrid firm (Husted & De Jesus Salazar, 2006). Whereas, in a strategically oriented hybrid firm, social investments would drive social benefits and result in new competencies, thus creating the circumstance to enhance the firm’s financial performance. The strategic case of corporate social investment reveals that strategically oriented hybrid firms achieve profitability from social investments (Husted & De Jesus Salazar, 2006). Strategically oriented hybrid firms

commercialize social innovations to assist the local community (Del Giudice et al., 2019), and engage in entrepreneurial activities to gain more access to capital markets (Nicholls, 2009). A meta-analysis by Orlitzky (2001) supported the theoretical expectation set in the instrumental approach to stakeholder theory that financial performance accrues to those firms that best meet the needs of their stakeholders in wider society (Orlitzky, 2011; Santos, 2012).

Thereby, this prevailing logic leads to:

Hypothesis 2: Social performance has a positive relationship with financial performance.

The Mediating Effect of Social Performance on the SEO-Financial Performance Relationship

The hybrid organizing literature has demonstrated the long-term impact of social-economic tensions, highlighting the risk of “mission-drift” (the divergence of a firm from its intended purpose), which can occur when conflict reconciliation processes in managing the trade-off between social and economic success result in firm actions that are not consistent with the stated strategic objectives (Ebrahim et al., 2014). Despite the issues associated with reconciling hybrid tensions, other research has found that social value creation and economic value capture are intertwined in social entrepreneurial hybrids such that the firm that engaged in SEO is expected to remove the hybrid organizing tensions to intertwine the possibility of higher social performance or impact with higher financial returns (Tobias et al., 2013). This implies that SEO’s social logic, infused with business-inspired activities, derives social and financial performance benefits. Thereby, social and

financial performance may be expected to become complementary in the case of SEO. Further, other research has found that hybrid objectives reinforce one another such as firms that respond to audiences with complex demands (Paoletta & Durand, 2016), community-based enterprises (Peredo & Chrisman, 2006), and hybrid firms that create value through the transformation of underutilized antagonistic assets (Hockerts, 2015). Previous research has also provided evidence for the mutual reinforcement opportunities of social and economic goals (Battilana & lee, 2014; Spieth et al., 2019). Hybrid organizing is more nuanced than previously understood and opportunities to create greater social value do not necessarily come at the cost of lower economic value (Shepherd et al., 2019). Nevertheless, the tensions between social and economic modes do not completely go away under SEO and we predict that the financial performance contribution of SEO may rely first on its ability to generate social performance.

Relative hybridity is assessed based on the relative importance that firms ascribe to the economic and social logic (Shepherd et al., 2019). In comparison to hybrid firms that employ SEO behaviors, non-profit firms are high in social logic (low in hybridity) whereas traditional for profit-firms are high in economic logic (also low in hybridity). SEO is high in relative hybridity and involves the co-construction of entrepreneurial opportunities for the benefit of the community as well as the firm itself (Alvarez & Barney, 2010; Venkatraman et al., 2012). As firms engage in SEO and pursue potential opportunities that generate a positive social impact and firm financial returns, SEO activities close the gap between social and economic value logic. Thus, firms that engage in SEO will experience an increase in relative hybridity. Not all social enterprises with a dominant social logic are entrepreneurial, but when they employ SEO behaviors, they

come closer to hybrid forms of firms and may use SEO activities to resolve the tensions between social value and economic value. Contrary to an EO, which follows a commercial pure institutional logic formed for the purpose of profit maximization (Austin et al., 2006; Schneider, 2017), SEO is less straightforward in which SEO is not financially driven and is not based on the pure institutional logic of driving financial returns for shareholders, but has been associated with positive financial returns for hybrid firms (Mair et al., 2015).

To successfully manage the co-existence of social welfare and economic logic, the organizational activity needs to synchronize in a manner that integrates and balances multiple institutional logics (Battilana & Lee, 2014). SEO, in comparison to other organizational activities such as EO, is able to balance the social and economic logics to manage the co-existence of the two within firms. Socially entrepreneurially oriented behaviors lead to double value creation, not just a societal benefit which is integral for a firm's competitive positioning (Alter, 2004; Porter & Kramer, 2011; Ridley-Duff & Bull, 2016). SEO behaviors highlight a blended value affirming that any firm is able to realize different types of value (i.e. financial, social, environmental). Zahra and authors (2014, p. 143) explain that SEO is about the "recognition, formation, evaluation, and exploitation of opportunities to create new businesses, models and solutions with a focus on achieving blended value." Scholars point towards a variety of potential benefits of SEO behaviors including improved efficiency, gaining market share, and a sustained competitive advantage (Fellnhöfer et al., 2014; Porter & Kramer, 2011).

According to the social value proposition of SEO (the distinguishing core concept of SEO), the creation of social value is interlinked with economic wealth generation (Dees, 2001; Hlady-Rispal & Servantie, 2018). High financial performance is an expected

outcome of a hybrid firm driven by SEO behaviors because of the strategic intent of engaging in social entrepreneurial endeavors that would provide value for the firm. Durable long-term value capture is dependent on social value creation (Dees, 2001). We expect that SEO strategically achieves superior social performance which in turn creates an economic value (Cornelius et al., 2008; Guo & Bielefeld, 2014; Santos, 2012; Weaver et al., 1999).

SEO creates social value and in turn generates economic wealth by developing new markets and fulfilling unmet social needs (Ramani et al., 2017). Firms are increasingly recognizing the benefits of making social value creation explicit and an objective in itself rather than a by-product of firm-level behaviors (Zahra et al., 2009). While this social value-creating activity can occur in different sectors or industries (Ribeiro Soriano et al., 2012; Austin et al., 2006), firms emphasizing SEO are distinguished by hybrid organizing and by their ability to recognize and exploit opportunities for the creation of higher social value and economic returns (Reis & Clohesy, 1999; Shepherd et al., 2019).

This prevailing logic leads to:

Hypothesis 3: Social performance positively mediates the effect of social entrepreneurship orientation on financial performance.

Figure 1 illustrates our hypothesized model.

[Insert Figure 1 about here]

METHODOLOGY

Sample

We drew a random sample of 20,000 entries from the Austrian company database AURELIA. Companies were invited to participate anonymously in the study via an established online survey system. Neither an extrinsic incentive nor a reminder was used. After consistency checks, 107 out of the 1,263 complete responses were removed, yielding a total of 1,156 usable responses and a response rate of 5.8 percent. In order to test for non-response bias (Armstrong & Overton, 1977), t-tests between four equally large groups of early to late respondents were applied. On average, all pairwise differences between the groups for all items used to measure the constructs were insignificant. Therefore, a systematic non-response bias is highly unlikely.

Descriptive Characteristics

To shed more light into the representativeness of our sample, some personal and firm characteristics are reported. Respondents were typically 78.5 percent male ($n = 908$) with a mean age of 49.3 years ($SD = 10.2$; minimum = 20; maximum = 81) and frequently had founded at least one firm (68.9 percent, $n = 796$) with the average number of firms having been founded by entrepreneurs in the sample to be 2.2 ($SD = 1.9$; minimum = 1; maximum = 25). Most respondents were chief executive officers (85.7 percent, $n = 991$) or

executives (5.7 percent, n = 66) with a mixed educational background of university degrees (32.9 percent, n = 380), school leaving examinations (20.8 percent, n = 241), technical colleges (11.0 percent, n = 127), teacher trainings (10.0 percent, n = 116), secondary schools (9.9 percent, n = 99) or PhDs (7.8 percent, n = 90). The average firm age was 30.7 years (SD = 37.0; minimum = 0; maximum = 378) with the majority being small firms with less than 30 employees (73.0 percent, n = 844). Medium-sized firms of 31 to 100 employees (14.8 percent, n = 171) or medium-sized to large firms of 101 to 500 employees (8.1 percent, n = 94) were less frequent.

Measures

A quantitative study was planned and undertaken. Measurements for the relevant variables were derived from literature. Table 1 provides an overview of the scales used, their sources, and their descriptive statistics. Further, to check for model robustness and background effects, common descriptive variables of personal (e.g., gender, age, education) and firm (e.g., firm age, size, focus on commercial or social aspects, branch) characteristics were included in the questionnaire. To ensure a separate conceptualization of SEO from an EO, each dimension of EO (innovativeness, proactiveness, risk taking) was amended to include a social value purpose and we include a ‘socialness’ dimension (to account for the social mission). Hence, the constructs SEO and EO may be related, but SEO behaviors are distinct in being directed towards addressing social objectives (Lumpkin et al., 2013).

[Insert Table 1 here]

Reliability and Validity Checks

Since the central variables in our framework were latent, structural equation modeling (SEM) was most appropriate to account for this latency and consequent measurement error. Following Gerbing and Anderson (1988), psychometric properties, reliability, and the convergent and discriminant validity of the constructs were checked via confirmatory factor analyses (CFA) before the framework model was assessed (all estimations are done using *lavaan* in *R*). Table 2 provides an overview of the results of these checks. Both, exploratory factor analyses and CFA confirmed the dimensionality of the proposed constructs. Some items were removed due to low factor loadings (i.e. item 1 and 3 for social performance). Since all constructs were inherently reflective in nature, deletion did not endanger the content validity of the constructs' meanings (Jarvis et al., 2003). Consequently, CFA indicated that the given construct structure fit the empirical data reasonably well (Chi-square = 440.83, d.f. = 104, CFI = .97, SRMR = .03) following (Niemand and Mai, 2018). Cronbach's coefficient alpha exceeded the minimum requirement of .7, indicating reliable measurement of all underlying constructs. Further, applying the procedures introduced by Fornell and Larcker (1981), convergent validity (average variance explained > .5) as well as discriminant validity (Fornell-Larcker-criterion where average variance exceeded the largest squared correlation with another construct) were also confirmed. However, the high correlations between SEO dimensions and social performance (.71, .81 and .75) may be seen as an indication against discriminant validity. In order to further substantiate that question, an alternative CFA model was evaluated which assumed a common social dimension consisting of SEO and social performance items. This model fit the underlying data significantly less well than

the proposed CFA model (Chi-square alternative CFA = 1,804.96 with d.f. = 118 vs chi-square proposed CFA = 440.83 with d.f. = 104; chi-square difference test = 1,364.10 and $p < .001$), indicating discriminant validity in the original model. Finally, to verify whether a common method bias was present or absent, a common factor approach SEM was modelled (Podsakoff et al., 2003). A CFA model was estimated where all items were loaded onto one common factor instead of their respective constructs. Since the fit of that model was insufficient (Chi-square = 4,040.16 , d.f. = 119, CFI = .69, SRMR = .13) and extremely poor, we can conclude that a common factor bias is not present. Overall, reliability and validity were given for all constructs.

[insert Table 2 about here]

RESULTS

Testing the Proposed Framework

As the common variance explained in SEO was more appropriate for the research question under investigation than the impact of each dimension, we decided to use composites (averaged values for all items of one dimension) of social risk-taking, social proactiveness, social innovativeness and socialness. Those composites were subsequently used as indicators of the respective second-order constructs. Moreover, we followed the SEM approach proposed by Iacobucci et al. (2007) to test for the mediation effect of social performance and checked the robustness of standard errors by alternatively applying a bootstrapping approach (1,000 resamples), which yielded identical results.

The results of our hypothesis testing are reported in Figure 2. The proposed mediation model was found to fit the underlying empirical data well (Chi-square = 519.16, d.f. = 68, CFI = .94, SRMR = .05) and explained considerable variances in the mediator social performance (explained variance = .78) and in the dependent variable financial performance (explained variance = .18). SEO largely influenced social performance (= .94, $p < .001$) and, in turn, social performance (= .34, $p < .01$) explained financial performance significantly and in a positive manner, indicating a partial mediation of SEO. Testing the indirect effect via defined parameters further established this conclusion as $SEO \rightarrow SP \rightarrow FP$ and remained significant (= .32, $p < .01$). Hence, H1-H3 were confirmed.

To complete the picture of effects, we examined some supplementary relationships in an exploratory manner. Since the mediation effect was partial, a direct effect was plausible. Regarding this, SEO (= -.37, $p < .01$) had a significant negative effect on financial performance.

The net effect of the competitive mediation was -.06 ($p > .05$). That is, the mediated positive influence of SEO on financial performance via social performance completely offsets the negative direct effect of SEO on financial performance, revealing a compensatory rather than complementary relationship.

[Insert Figure 2 about here]

Robustness Checks

The very significant relationship between SEO and social performance could be understood as a harm of discriminant validity. We therefore repeated the common social

dimension test described for our mediation model and again found support for distinct, but strongly connected, constructs as the original model yielded better fit (common social dimension model: Chi-square = 642.62, d.f. = 65, CFI = .93, SRMR = .06).

To check the robustness of the proposed model, another alternative model was estimated which integrates multiple single items representing gender (0 = male, 1 = female), founding firm (0 = no, 1 = yes), position (0 = non-executive, 1 = executive), orientation (0 = commercial, 1 = social), and branch (0 = primary and secondary, 1 = tertiary). Thereby, ordinal items were recorded as dummy variables and a diagonally weighted least squares (DWLS) estimator with robust standard errors, which does not require metric items, was used instead of the maximum likelihood estimator.

The model indicated a comparable fit (Chi-square = 340.62 with d.f. = 118, CFI = .98, SRMR = .04, difference tests omitted due to different estimator). Moreover, all relationships displayed in the hypotheses remained. Among the control variables, only one minor effect was present. Social performance was influenced by gender ($\beta = .05$, $p < .05$). All previously revealed relationships not mentioned remained identical. Finally, social performance (explained variance = .82, a difference of = .03) and financial (explained variance = .22, difference = .04) performance were equally predicted compared to the proposed model without control variables. Overall, these robustness findings indicated that the proposed model was reasonable.

DISCUSSION

This study sought to examine the pathway of SEO to financial performance in a large-scale empirical study. Our findings provide the first empirical advancement for the

construct of SEO. The results suggest that the SEO and financial performance relationship is partially positively mediated by social performance, whereby social performance positively mediates the relationship between SEO and financial performance. SEO did not directly lead to higher financial performance, but its effect on social performance spilled over onto higher financial performance (Guo & Bielefeld, 2014; Santos, 2012). The direct effects were in line with previous studies in the literature, which have found that entrepreneurial activity in the social context has a positive effect on social performance, yet a direct negative effect on financial performance (Miles et al., 2013). Our results provide a crucial new contribution to the study of a SEO and social entrepreneurship among firms in general. The mediation test between SEO and financial performance account for social performance as a mediator does not tell the entire story of what is taking place inside our empirical models. There is a positive indirect effect from SEO through social performance to the firm's financial performance. However, there is an equally strong negative direct effect from SEO onto firms' financial performance. A very SEO-oriented firm may have superior social performance and then has financial advantages from that social performance. However, the firm still suffers from the financial disadvantages of a high SEO. We find that the total effect is not different from zero. In this sense, the mediated positive influence of SEO on financial performance via social performance completely offsets the negative direct effect of SEO on financial performance.

We observe then that social performance and financial performance are not complementary for firms that bear SEO, but that the indirect effect (Hypothesis 3) is compensatory to the detrimental direct effect we discovered when scrutinizing the data.

This compensatory rather than complementary effect has escaped identification to date and represents an important contribution to our understanding of the implications of social entrepreneurship and SEO among firms, and the consequence of the hybrid approach. This effect holds true for all firms in our dataset, not only the ones with high SEO. A firm with very low SEO still has a positive correlation between both performances.

A possible reason is that when hybrid firms follow a commercial logic (striving for increasing financial returns for shareholders) that jeopardizes the authenticity of the hybrid firm (to resemble more a for-profit firm) and its economic performance (e.g. Shepherd et al., 2019; Spieth et al., 2019). Hybrid firms are held accountable to a diverse set of stakeholders and they need to balance the expectations of multiple stakeholders and by neglecting their social impact, then hybrid firms risk undermining the stakeholders' social purpose authenticity (Ebrahim et al., 2014). The firm high in SEO gains considerable social performance which in turn increases financial performance, as theorized. However, unexpectedly, we unearth new nuance into this relationship, showing that the financial gain from social performance might be net zero when compared to the financial performance cost of high SEO. This reshapes the problem of tension as not being between social and financial performance but between SEO and financial performance. We caution, however, that this relationship should not strictly be interpreted as zero-sum since current research identifies additional potential benefits to a social focus or environmental policy, including at the product-market level and for customer awareness (Rahman et al., 2020). Hillman & Keim, 2001), legitimacy (Suchman, 1995), and reputation (Orlitzky, 2008). It is urgent that scholars now examine a SEO against multiple forms of firm performance to establish the gravity of its positive and negative, complementary or compensatory effects.

Our findings also provide three additional contributions. First, we reveal that SEO has a positive effect on social performance in line with the social value proposition of SEO (Covin et al., 2015; Mair & Marti, 2006). SEO is able to generate a positive social impact by gearing entrepreneurial activities towards a social purpose and generates societal benefits to its beneficiaries (Saebi et al., 2019). Second, we reveal that social performance has a positive effect on financial performance in line with instrumental stakeholder theory (Orlitzky, 2001), in which achieving a higher social performance is instrumental for enhancing financial performance in the context of hybrid firms. Our results of the positive social-financial performance extends previous research (Husted & De Jesus Salazar, 2006; Orlitzky, 2001, 2011; Santos, 2012). Third, we reveal that social performance mediates the relationship between SEO and financial performance. Collectively, we contribute to the hybrid organizing literature by revealing that SEO enhances a firm's financial performance as it resolves some of the hybrid tensions of different institutional logics (Shepherd et al., 2019), albeit in the context of our discovery of the complementary-compensatory tension. SEO prioritizes social mission on top of economic returns, but to which its social mission primacy may come at the expense of higher direct economic returns offset by the power of social performance for the firm's financial performance. An urgent question for scholars now is how to magnify that power. SEO, through achieving its social mission, can capture value for the firm. SEO as a firm-level activity is distinct by its combination of several institutional logics (institutional plurality) within an organization that is able to achieve innovative revenue-generating solutions to complex grand societal problems (Santos et al., 2015).

Relying on the main effects of SEO on financial performance alone, however, would conceal the underlying mechanism through which SEO affects the firm's economic performance positively. This serves to advance the SEO literature by unveiling the effects of SEO and its indirect pathway to a firm's financial performance. We reveal that SEO operates through a distinct pathway towards financial performance through social performance, in which SEO aims to achieve its social mission through entrepreneurial social and income-generating activities.

CONCLUSIONS, IMPLICATIONS, AND LIMITATIONS

SEO is a behavioral construct that explains the managerial tendency towards entrepreneurial behavior (denoting the 'how' of entrepreneurial behavior), and is a distinctive construct in which SEO infuses the social logic with economic activity. Assessing the impact of SEO on firm outcomes remains a challenge; yet our study is the first step and a signal for future researchers to move towards establishing SEO as a separate construct and legitimizing it within entrepreneurship research.

A major issue that warrants greater attention among scholars is examining the mediating mechanisms that allow managerial tendencies towards social entrepreneurial behaviors to be actualized into creating and capturing value for firms. We reveal that the mediating mechanism that captures financial value from social entrepreneurial behaviors is social performance. Using stakeholder theory and hybrid organizing as the theoretical lens, we posited and empirically found that SEO positively impacts financial performance through its effect on social performance. Our findings advance the entrepreneurship field by shifting the conversation to intervening mechanisms in the relationship between the

social entrepreneurship of the firm (SEO) and financial performance. Our study is one of the few studies that investigates the effect of SEO and its mediating pathway to financial performance in a large-scale empirical context. Current social entrepreneurship research is still in a relatively nascent phase employing an open-ended exploratory analysis and adopting a mostly qualitative methodology (Cheah et al., 2019). Furthermore, most studies concentrate on the individual level of analysis; firm-level studies in the SE field are rare, yet we should how important it is to understand the intermediate circumstances through which a SEO creates returns to firm performance, and when it does not.

Our findings have important practical implications for managers. Our results reveal that being socially entrepreneurially oriented is beneficial for the firm's social performance, and if the firm is successful in its social performance, then it shall benefit economically (the mediating effect). In other words, success drives success. So, if a manager is passionate about the firm's social impact or social performance, this will also mean higher financial success for the firm. However, our additional tests show that SEO does not have a direct positive effect on financial performance, but rather a negative one. This is compensated for by the positive financial performance effects of social performance. We caution that managers should not squander an investment in SEO simply by focusing only on financial performance. The intermediate factors are central to appreciating when, how, and why SEO contributes financially to the firm.

Even though this study provides interesting theoretical, conceptual, and empirical insights into SEO, the findings must be considered with certain limitations. First, this study focused on a sample of mostly small companies from Austria. To enhance the generalizability of our findings, future research can test our model with samples in

different contexts such as emerging or developing markets and larger firms. Further, this research employed perceptual indicators of performance. Future research can extend on our findings by including objective measures of performance.

Notwithstanding such limitations, this research is the first to conceptually test a recently developed scale of SEO (Kraus et al., 2017) and to reveal its impact on financial performance. As social impact continues to grow in prominence in organizations, economies, and research, our study provides solid groundwork for additional research on SEO.

Table 1: Measurement items and their descriptive statistics

| Construct and items | Mean | SD |
|--|-------------|-----------|
| Social Risk-taking (SEO_1)¹ | | |
| We are not afraid to take substantial risks when serving our social purpose | 2.67 | 1.05 |
| Bold action is necessary to achieve our company's social mission | 2.55 | 1.07 |
| We avoid the cautious line of action if social opportunities might be lost that way | 2.74 | .95 |
| Social Proactiveness (SEO_2)¹ | | |
| We aim at being at the forefront at making the world a better place | 3.03 | 1.10 |
| Our organization has a strong tendency to be ahead of others in addressing its social mission | 2.84 | 1.09 |
| We typically initiate actions which other social enterprises/social entrepreneurs copy | 2.53 | 1.03 |
| Social Innovativeness (SEO_3)¹ | | |
| Social innovation is important for our company | 3.48 | 1.04 |
| We invest heavily in developing new ways to increase our social impact or to serve our beneficiaries | 3.10 | 1.04 |
| In our company, new ideas to solve social problems come up very frequently | 3.04 | 1.03 |
| Socialness (SEO_4)¹ | | |
| The objective to accomplish our social mission precedes the objective to generate a profit | 2.37 | 1.17 |
| Our organization places a strong focus on partnerships with other organizations and/or governments in order to ensure a greater and accelerated accomplishment of the social mission | 2.55 | 1.15 |
| Financial Performance² | | |
| In the past five years we achieved a higher sales growth than our (direct/indirect) competitors | 3.33 | .96 |
| In the past five years we achieved a higher profit growth than our (direct/indirect) competitors | 3.22 | .94 |
| In the past five years we achieved a higher growth in employees than our (direct/indirect) competitors | 2.90 | 1.04 |
| In the past five years we achieved a higher growth in market share than our (direct/indirect) competitors | 3.23 | .98 |
| Social Performance² | | |
| Our beneficiaries are satisfied with our services | 4.38 | .57 |
| We help mobilize interest for additional social welfare initiatives | 2.98 | 1.01 |
| The output provided by our organization has a significant impact on general well-being | 3.32 | 1.09 |
| Our organization is on a good path to accomplish its social mission | 3.00 | 1.05 |
| Notes. All items have range 1 (min) to 5 (max) | | |
| ¹ Kraus et al (2017); ² Eggers et al. (2013) and Baker and Sinkula (2009) | | |

Table 2: Correlations and properties

| | SEO_1 | SEO_2 | SEO_3 | SEO_4 | FP | SP |
|--------------|--------------|--------------|--------------|--------------|------------|------------|
| SEO_R | <i>.67</i> | | | | | |
| SEO_P | .80 | <i>.69</i> | | | | |
| SEO_I | .80 | .78 | <i>.73</i> | | | |
| SEO_S | .68 | .75 | .64 | <i>.66</i> | | |
| FP | .14 | .19 | .17 | .04 | <i>.62</i> | |
| SP | .71 | .81 | .75 | .79 | .19 | <i>.67</i> |
| Alpha | .84 | .86 | .89 | .80 | .86 | .80 |

Notes. Lower-diagonal construct correlations and reliability estimates from CFA-SEM. SEO_1 = Social Risk-taking; SEO_2 = Social Proactiveness; SEO_3 = Social Innovativeness; SEO_4 = Socialness; FP = Financial performance; SP = Social performance; Alpha = Cronbach's coefficient Alpha; Diagonal elements (*italics*) = Average variance explained

Figure 1: Conceptual model and hypotheses

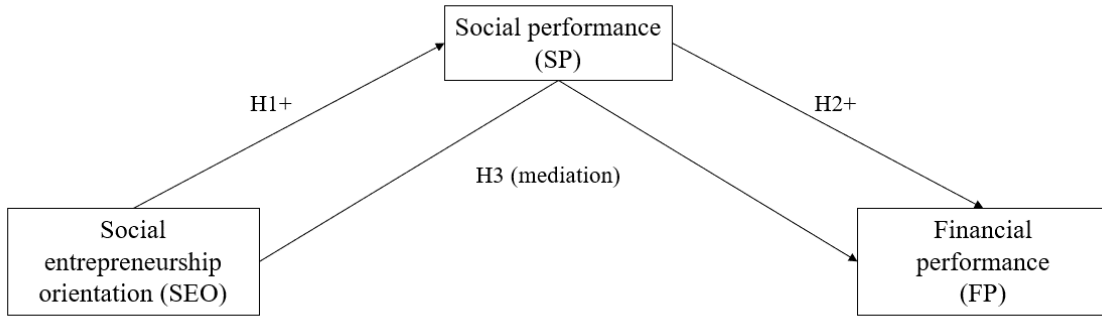
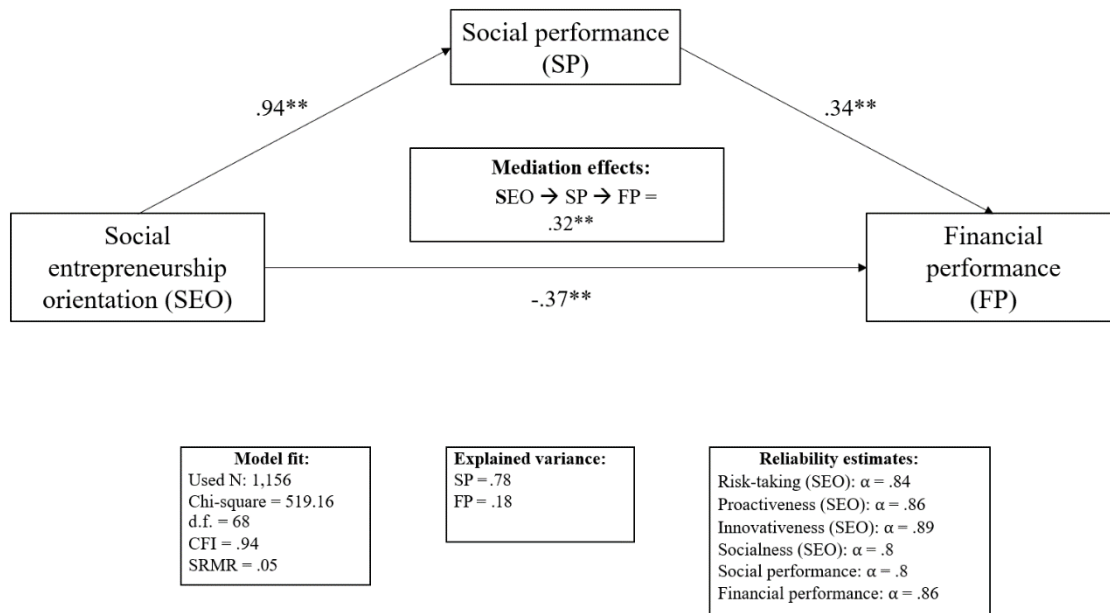


Figure 2: Results



Notes: Covariance-based SEM (lavaan, ML estimator) with standardized estimates; n.s.: $p > .05$;

*: $p \leq .05$; **: $p \leq .01$; *** $p \leq .001$

All sub-dimensions of SEO and SP and FP constructs fulfill convergent and discriminant validity (Fornell & Larcker, 1981)

REFERENCES

- Alarifi, G., Robson, P., & Kromidha, E. (2019). Social entrepreneurship in the Middle East and North Africa. In *A Research Agenda for Social Entrepreneurship*. Edward Elgar Publishing.
- Alter, K. (2004) *Social Enterprise Typology*, Virtue Ventures LLC, Washington, DC.
- Alvarez, S. A., & Barney, J. B. (2010). Entrepreneurship and epistemology: The philosophical underpinnings of the study of entrepreneurial opportunities. *Academy of Management Annals*, 4(1), 557–583.
- Alvord, S. H., Brown, L. D., & Letts, C. W. (2004). Social entrepreneurship and societal transformation an exploratory study. *Journal of Applied Behavioral Science*, 40(3), 260-282.
- Armstrong, J. S., & Overton, T. S. (1977). Estimating nonresponse bias in mail surveys. *Journal of Marketing Research*, 14(3), 396-402.
- Austin, J., Stevenson, H., & Wei-Skillern, J. (2006). Social and commercial entrepreneurship: Same, different, or both? *Entrepreneurship Theory and Practice*, 30(1), 1-22.
- Azmat, F., Ferdous, A. S., & Couchman, P. (2015). Understanding the dynamics between social entrepreneurship and inclusive growth in subsistence marketplaces. *Journal of Public Policy & Marketing*, 34(2), 252-271.
- Bacq, S., Hartog, C., & Hoogendoorn, B. (2016). Beyond the moral portrayal of social entrepreneurs: An empirical approach to who they are and what drives them. *Journal of Business Ethics*, 133(4), 703-718.
- Baker, W. E., & Sinkula, J. M. (2009). The complementary effects of market orientation and entrepreneurial orientation on profitability in small businesses. *Journal of Small Business Management*, 47(4), 443-464.
- Barnett, M. L. (2007). Stakeholder influence capacity and the variability of financial returns to corporate social responsibility. *Academy of Management Review*, 32(3), 794-816.
- Battilana, J., & Lee, M. (2014). Advancing research on hybrid organizing: Insights from the study of social enterprises. *Academy of Management Annals*, 8(1), 397–441.
- Battilana, J., Besharov, M., & Mitzinneck, B. (2017). On hybrids and hybrid organizing: A review and roadmap for future research. In R. Greenwood, C. Oliver, T. B. Lawrence, & R. E. Meyer (Eds.). *SAGE handbook of organizational institutionalism* (2nd ed., Ch. 5). Thousand Oaks, CA: SAGE Publications.
- Bowen, H. R. (1953). *Social responsibility of the businessman*. New York: Harper and Row.
- Bridoux, F., & Stoelhorst, J. W. (2016). Stakeholder relationships and social welfare: A behavioral theory of contributions to joint value creation. *Academy of Management Review*, 41(2), 229-251.
- Cajaiba-Santana, G. (2014). Social innovation: Moving the field forward. A conceptual framework. *Technological Forecasting and Social Change*, 82, 42-51.
- Certo, S. T., & Miller, T. (2008). Social entrepreneurship: Key issues and concepts. *Business Horizons*, 51(4), 267-271.

- Cheah, J., Amran, A., & Yahya, S. (2019). Internal oriented resources and social enterprises' performance: How can social enterprises help themselves before helping others? *Journal of Cleaner Production*, 211, 607-619.
- Chell, E., Spence, L. J., Perrini, F., & Harris, J. D. (2016). Social entrepreneurship and business ethics: Does social equal ethical? *Journal of Business Ethics*, 133(4), 619-625.
- Choi, N., & Majumdar, S. (2014). Social entrepreneurship as an essentially contested concept: Opening a new avenue for systematic future research. *Journal of Business Venturing*, 29(3), 363-376.
- Cornelius, N., Todres, M., Janjuha-Jivraj, S., Woods, A., & Wallace, J. (2008). Corporate social responsibility and the social enterprise. *Journal of Business Ethics*, 81(2), 355-370.
- Covin, J. G., Garrett Jr, R. P., Kuratko, D. F., & Shepherd, D. A. (2015). Value proposition evolution and the performance of internal corporate ventures. *Journal of Business Venturing*, 30(5), 749-774.
- Covin, J. G., & Miller, D. (2014). International entrepreneurial orientation: conceptual considerations, research themes, measurement issues, and future research directions. *Entrepreneurship Theory and Practice*, 38(1), 11-44.
- Covin, J. G., & Slevin, D. P. (1989). Strategic management of small firms in hostile and benign environments. *Strategic Management Journal*, 10(1), 75-87.
- Covin, J. G., & Slevin, D. P. (1991). A conceptual model of entrepreneurship as firm behavior. *Entrepreneurship Theory and Practice*, 16(1), 7-26.
- Dacin, P. A., Dacin, M. T., & Matear, M. (2010). Social entrepreneurship: Why we don't need a new theory and how we move forward from here. *Academy of Management Perspectives*, 24(3), 37-57.
- Dart, R. (2004). The legitimacy of social enterprise. *Nonprofit Management and Leadership*, 14(4), 411-424.
- Dees, J. G. (2001). *The meaning of social entrepreneurship*. Stanford, CA: Stanford University.
- Del Giudice, M., Garcia-Perez, A., Scuotto, V., & Orlando, B. (2019). Are social enterprises technological innovative? A quantitative analysis on social entrepreneurs in emerging countries. *Technological Forecasting and Social Change*, 148, 119704.
- Doherty, B., Haugh, H., & Lyon, F. (2014). Social enterprises as hybrid organizations: A review and research agenda. *International Journal of Management Reviews*, 16(4), 417-436.
- Donaldson, T., & Preston, L. E. (1995). The stakeholder theory of the corporation: Concepts, evidence, and implications. *Academy of Management Review*, 20(1), 65-91.
- Duvnäs, H., Stenholm, P., Brännback, M., & Carsrud, A. L. (2012). What are the outcomes of innovativeness within social entrepreneurship? The relationship between innovative orientation and social enterprise economic performance. *Journal of Strategic Innovation and Sustainability*, 8(1), 68-80.
- Dwivedi, A., & Weerawardena, J. (2018). Conceptualizing and operationalizing the social entrepreneurship construct. *Journal of Business Research*, 86, 32-40.

- Ebrahim, A., Battilana, J., & Mair, J. (2014). The governance of social enterprises: Mission drift and accountability challenges in hybrid organizations. *Research in Organizational Behavior*, 34, 81-100.
- Eggers, F., Kraus, S., Hughes, M., Laraway, S., & Snyckerski, S. (2013). Implications of customer and entrepreneurial orientations for SME growth. *Management Decision*, 51(3), 524-546.
- Fellnhöfer, K., Kraus, S., & Bouncken, R. (2014). The current state of research on sustainable entrepreneurship. *International Journal of Business Research*, 14(3), 163-172.
- Ferreira, J. J., Fernandes, C. I., & Kraus, S. (2019). Entrepreneurship research: mapping intellectual structures and research trends. *Review of Managerial Science*, 13(1), 181-205.
- Fiol, C. M., Pratt, M. G., & O'Connor, E. J. (2009). Managing intractable identity conflicts. *Academy of Management Review*, 34(1), 32-55.
- Fitzgerald, T., & Shepherd, D. (2018). Emerging structures for social enterprises within nonprofits: An institutional logics perspective. *Nonprofit and Voluntary Sector Quarterly*, 47(3), 474-492.
- Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research*, 18(1), 39-50.
- Gerbing, D. W., & Anderson, J. C. (1988). An updated paradigm for scale development incorporating unidimensionality and its assessment. *Journal of Marketing Research*, 25(2), 186-192.
- Goldsby, M. G., Kuratko, D. F., Bishop, J. W., Kreiser, P. M., & Hornsby, J. S. (2018). Social proactiveness and innovation: The impact of stakeholder salience on corporate entrepreneurship. *Journal of Small Business Strategy*, 28(2), 1-15.
- Guo, C., & Bielefeld, W. (2014). *Social entrepreneurship: An evidence-based approach to creating social value*: John Wiley & Sons.
- Halberstadt, J., & Kraus, S. (2016). Social entrepreneurship: The foundation of tomorrow's commercial business models? *International Journal of Entrepreneurial Venturing*, 8(3), 261-279.
- Halberstadt, J., Niemand, T., Kraus, S., Rexhepi, G., Jones, P., & Kailer, N. (2020): Social entrepreneurship orientation: Drivers of success for start-ups and established industrial firms, *Industrial Marketing Management* (in press).
- Hillman, A. J., & Keim, G. D. (2001). Shareholder value, stakeholder management, and social issues: What's the bottom line? *Strategic Management Journal*, 22(2), 125-139.
- Hlady- Rispal, M., & Servantie, V. (2018). Deconstructing the way in which value is created in the context of social entrepreneurship. *International Journal of Management Reviews*, 20(1), 62-80.
- Hockerts, K. (2015). How hybrid organizations turn antagonistic assets into complementarities. *California Management Review*, 57(3), 83-106.
- Husted, B. W., & De Jesus Salazar, J. (2006). Taking Friedman seriously: Maximizing profits and social performance. *Journal of Management Studies*, 43(1), 75-91.

- Iacobucci, D., Saldanha, N., & Deng, X. (2007). A meditation on mediation: Evidence that structural equations models perform better than regressions. *Journal of Consumer Psychology, 17*(2), 140-154.
- Jarvis, C. B., MacKenzie, S. B., & Podsakoff, P. M. (2003). A critical review of construct indicators and measurement model misspecification in marketing and consumer research. *Journal of Consumer Research, 30*(2), 199-218.
- Jones, T. M. (1995). Instrumental stakeholder theory: A synthesis of ethics and economics. *Academy of Management Review, 20*(2), 404-437.
- Ko, W. W., & Liu, G. (2020). The transformation from traditional nonprofit organizations to social enterprises: An institutional entrepreneurship perspective. *Journal of Business Ethics, 1-18*. doi: 10.1007/s10551-020-04446-z
- Kraus, S., Filser, M., O'Dwyer, M., & Shaw, E. (2014). Social entrepreneurship: An exploratory citation analysis. *Review of Managerial Science, 8*(2), 275-292.
- Kraus, S., Niemand, T., Halberstadt, J., Shaw, E., & Syrjä, P. (2017). Social entrepreneurship orientation: Development of a measurement scale. *International Journal of Entrepreneurial Behavior & Research, 23*(6), 977-997.
- Kroeger, A., & Weber, C. (2014). Developing a conceptual framework for comparing social value creation. *Academy of Management Review, 39*(4), 513-540.
- Kuratko, D. F., McMullen, J. S., Hornsby, J. S., & Jackson, C. (2017). Is your organization conducive to the continuous creation of social value? Toward a social corporate entrepreneurship scale. *Business Horizons, 60*(3), 271-283.
- Leadbeater, C. (1997). *The rise of the social entrepreneur: Demos*.
- Lumpkin, G. T., Bacq, S., & Pidduck, R. J. (2018). Where change happens: community-level phenomena in social entrepreneurship research. *Journal of Small Business Management, 56*(1), 24-50.
- Lumpkin, G. T., Moss, T. W., Gras, D. M., Kato, S., & Amezcua, A. S. (2013). Entrepreneurial processes in social contexts: How are they different, if at all? *Small Business Economics, 40*(3), 761-783.
- Lurtz, K., & Kreutzer, K. (2017). Entrepreneurial orientation and social venture creation in nonprofit organizations: The pivotal role of social risk taking and collaboration. *Nonprofit and Voluntary Sector Quarterly, 46*(1), 92-115.
- Maguire, S., Hardy, C., & Lawrence, T. B. (2004). Institutional entrepreneurship in emerging fields: HIV/AIDS treatment advocacy in Canada. *Academy of Management Journal, 47*(5), 657-679.
- Mahon, J. F. (2002). Corporate reputation: Research agenda using strategy and stakeholder literature. *Business & Society, 41*(4), 415-445.
- Maier, F., Meyer, M., & Steinbereithner, M. (2016). Nonprofit organizations becoming business-like: A systematic review. *Nonprofit and Voluntary Sector Quarterly, 45*(1), 64-86.
- Mair, J., & Marti, I. (2006). Social entrepreneurship research: A source of explanation, prediction, and delight. *Journal of World Business, 41*(1), 36-44.
- Mair, J., Mayer, J., & Lutz, E. (2015). Navigating institutional plurality: Organizational governance in hybrid organizations. *Organization Studies, 36*(6), 713-739.

- Miles, M. P., Verreynne, M. L., Luke, B., Eversole, R., & Barraket, J. (2013). The relationship of entrepreneurial orientation, vincentian values and economic and social performance in social enterprise. *Review of Business*, 33(2), 91-102.
- Miller, T. L., Grimes, M. G., McMullen, J. S., & Vogus, T. J. (2012). Venturing for others with heart and head: How compassion encourages social entrepreneurship. *Academy of Management Review*, 37(4), 616-640.
- Mort, G. S., Weerawardena, J., & Carnegie, K. (2003). Social entrepreneurship: Towards conceptualisation. *International Journal of Nonprofit and Voluntary Sector Marketing*, 8(1), 76-88.
- Moss, T. W., Short, J. C., Payne, G. T., & Lumpkin, G. T. (2011). Dual identities in social ventures: An exploratory study. *Entrepreneurship Theory and Practice*, 35(4), 805-830.
- Nicholls, A. (2008). *Social entrepreneurship: New models of sustainable social change*: OUP Oxford.
- Nicholls, A. (2009). 'We do good things, don't we?': 'Blended Value Accounting' in social entrepreneurship. *Accounting, Organizations and Society*, 34(6-7), 755-769.
- Nicholls, A. (2010). The legitimacy of social entrepreneurship: Reflexive isomorphism in a pre-paradigmatic field. *Entrepreneurship Theory and Practice*, 34(4), 611-633.
- Niemand, T., & Mai, R. (2018). Flexible cutoff values for fit indices in the evaluation of structural equation models. *Journal of the Academy of Marketing Science*, 46(6), 1148-1172.
- Orlitzky, M. (2001). Does firm size comfound the relationship between corporate social performance and firm financial performance? *Journal of Business Ethics*, 33(2), 167-180.
- Orlitzky, M. (2008). Corporate social performance and financial performance: A research synthesis. In A. Crane, A. McWilliams, D. Matten, J. Moon, & D. Siegel (Eds.). *The Oxford Handbook of CSR*. Oxford: Oxford University Press.
- Orlitzky, M. (2011). Institutional logics in the study of organizations: The social construction of the relationship between corporate social and financial performance. *Business Ethics Quarterly*, 21(3), 409-444.
- Pache, A. C., & Santos, F. (2013). Inside the hybrid organization: Selective coupling as a response to competing institutional logics. *Academy of Management Journal*, 56(4), 972-1001.
- Paoletta, L., & Durand, R. (2016). Category spanning, evaluation, and performance: Revised theory and test on the corporate law market. *Academy of Management Journal*, 59(1), 330-351.
- Peredo, A. M., & Chrisman, J. J. (2006). Toward a theory of community-based enterprise. *Academy of Management Review*, 31(2), 309-328.
- Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: A critical review of the literature and recommended remedies. *Journal of Applied Psychology*, 88(5), 879-903.
- Porter, M. E., & Kramer, M. R. (1999). Philanthropy's new agenda: Creating value. *Harvard Business Review*, 77, 121-131.
- Porter, M. E., & Kramer, M. R. (2011). Creating shared value. *Harvard Business Review*, 89(1/2), 62-77.

- Rahman, M., Aziz, S., & Hughes, M. (2020). The product-market performance benefits of environmental policy: Why customer awareness and firm innovativeness matter. *Business Strategy and the Environment*, in press. DOI: 10.1002/bse.2484
- Ramani, S. V., SadreGhazi, S., & Gupta, S. (2017). Catalysing innovation for social impact: The role of social enterprises in the Indian sanitation sector. *Technological Forecasting and Social Change*, 121, 216-227.
- Rao-Nicholson, R., Vorley, T., & Khan, Z. (2017). Social innovation in emerging economies: A national systems of innovation based approach. *Technological Forecasting and Social Change*, 121, 228-237.
- Ratinho, T., Harms, R., & Walsh, S. (2015). Structuring the technology entrepreneurship publication landscape: Making sense out of chaos. *Technological Forecasting and Social Change*, 100, 168-175.
- Rawhouser, H., Cummings, M., & Newbert, S. L. (2019). Social impact measurement: Current approaches and future directions for social entrepreneurship research. *Entrepreneurship Theory and Practice*, 43(1), 82-115.
- Reis, T. K., & Clohesy, S. J. (1999). *Unleashing new resources and entrepreneurship for the common good: A scan, synthesis, and scenario for action*: WK Kellogg Foundations.
- Ribeiro Soriano, D., Arribas, I., Hernández, P., Urbano, A., & Vila, J. E. (2012). Are social and entrepreneurial attitudes compatible? A behavioral and self-perceptual analysis. *Management Decision*, 50(10), 1739-1757.
- Ridley-Duff, R., & Bull, M. (2016). *Understanding social enterprise: Theory and Practice*. London: Sage.
- Rowley, T. J. (1997). Moving beyond dyadic ties: A network theory of stakeholder influences. *Academy of Management Review*, 22(4), 887-910.
- Saebi, T., Foss, N. J., & Linder, S. (2019). Social entrepreneurship research: Past achievements and future promises. *Journal of Management*, 45(1), 70-95.
- Santos, F. M. (2012). A positive theory of social entrepreneurship. *Journal of Business Ethics*, 111(3), 335-351.
- Santos, F., Pache, A. C., & Birkholz, C. (2015). Making hybrids work: Aligning business models and organizational design for social enterprises. *California Management Review*, 57(3), 36-58.
- Sassmannshausen, S. P., & Volkmann, C. (2018). The scientometrics of social entrepreneurship and its establishment as an academic field. *Journal of Small Business Management*, 56(2), 251-273.
- Schneider, A. (2017). Social entrepreneurship, entrepreneurship, collectivism, and everything in between: Prototypes and continuous dimensions. *Public Administration Review*, 77, 421-431.
- Semrau, T., Ambos, T. C., & Kraus, S. (2016). Entrepreneurial orientation and SME performance across societal cultures. *Journal of Business Research*, 69(5), 1928-1932.
- Shepherd, D. A., & Patzelt, H. (2011). The new field of sustainable entrepreneurship: Studying entrepreneurial action linking what is to be sustained with what is to be developed. *Entrepreneurship: Theory and Practice*, 35(1), 137-163.

- Shepherd, D. A., Williams, T. A., & Zhao, E. Y. (2019). A framework for exploring the degree of hybridity in entrepreneurship. *Academy of Management Perspectives*, 33(4), 491-512.
- Short, J. C., Moss, T. W., & Lumpkin, G. T. (2009). Research in social entrepreneurship: Past contributions and future opportunities. *Strategic Entrepreneurship Journal*, 3(2), 161-194.
- Smith, W. K., Gonin, M., & Besharov, M. L. (2013). Managing social-business tensions: A review and research agenda for social enterprise. *Business Ethics Quarterly*, 23(3), 407-442.
- Spieth, P., Schneider, S., Clauß, T., & Eichenberg, D. (2019). Value drivers of social businesses: A business model perspective. *Long Range Planning*, 52(3), 427-444.
- Stevens, R., Moray, N., & Bruneel, J. (2015). The social and economic mission of social enterprises: Dimensions, measurement, validation, and relation. *Entrepreneurship Theory and Practice*, 39(5), 1051-1082.
- Suchman, M. C. (1995). Managing legitimacy: Strategic and institutional approaches. *Academy of Management Review*, 20(3), 571-610.
- Surie, G. (2017). Creating the innovation ecosystem for renewable energy via social entrepreneurship: Insights from India. *Technological Forecasting and Social Change*, 121, 184-195.
- Sutter, C., Bruton, G. D., & Chen, J. (2019). Entrepreneurship as a solution to extreme poverty: A review and future research directions. *Journal of Business Venturing*, 34(1), 197-214.
- Swanson, L. A., & Zhang, D. D. (2011). Complexity theory and the social entrepreneurship zone. *Emergence: Complexity and Organization*, 13(3), 39-56.
- Tobias, J. M., Mair, J., & Barbosa-Leiker, C. (2013). Toward a theory of transformative entrepreneuring: Poverty reduction and conflict resolution in Rwanda's entrepreneurial coffee sector. *Journal of Business Venturing*, 28(6), 728-742.
- Van der Laan, G., Van Ees, H., & Van Witteloostuijn, A. (2008). Corporate social and financial performance: An extended stakeholder theory, and empirical test with accounting measures. *Journal of Business Ethics*, 79(3), 299-310.
- Venkataraman, S., Sarasvathy, S. D., Dew, N., & Forster, W. R. (2012). Reflections on the 2010 AMR decade award: Whither the promise? Moving forward with entrepreneurship as a science of the artificial. *Academy of Management Review*, 37(1), 21-33.
- Von der Weppen, J., & Cochrane, J. (2012). Social enterprises in tourism: An exploratory study of operational models and success factors. *Journal of Sustainable Tourism*, 20(3), 497-511.
- Weaver, G. R., Treviño, L. K., & Cochran, P. L. (1999). Integrated and decoupled corporate social performance: Management commitments, external pressures, and corporate ethics practices. *Academy of Management Journal*, 42(5), 539-552.
- Weerawardena, J., & Mort, G. S. (2006). Investigating social entrepreneurship: A multidimensional model. *Journal of World Business*, 41(1), 21-35.
- Whittington, R. (1992). Putting Giddens into action: social systems and managerial agency. *Journal of Management Studies*, 29(6), 693-712.

- Zahra, S. A., Gedajlovic, E., Neubaum, D. O., & Shulman, J. M. (2009). A typology of social entrepreneurs: Motives, search processes and ethical challenges. *Journal of Business Venturing*, 24(5), 519-532.
- Zahra, S. A., Newey, L. R., & Li, Y. (2014). On the frontiers: The implications of social entrepreneurship for international entrepreneurship. *Entrepreneurship Theory and Practice*, 38(1), 137-158.
- Zahra, S. A., & Wright, M. (2016). Understanding the social role of entrepreneurship. *Journal of Management Studies*, 53(4), 610-629.