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Stakeholder engagement for innovation management and entrepreneurial development: A meta-analysis

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ABSTRACT

This paper reviews contemporary studies in entrepreneurship literature related to innovation management (IM), stakeholder engagement (SE), and entrepreneurial development (ED), using bibliometric techniques and longitudinal statistical analysis of 1059 articles published in the Journal of Business Research (JBR) and other relevant business and management journals indexed in Scopus from 1974 until July 2020. We have employed a structured literature review and meta-analysis to explore the emerging research patterns in prospective observational studies encompassing the field of ED, SE, and IM. Our findings suggest that dynamics of the interaction of SE, IM, and ED are shaping the scholarship of academic research in entrepreneurship. Our meta-analysis reaffirms that contemporary research conducted at the intersection of SE, IM, and ED indicates the consolidation of these tenets in future research in entrepreneurship leading to an integrative view. Finally, we present future research directions at the intersection of SE, IM, and ED for entrepreneurship research.

1. Introduction

Globally, entrepreneurship development (ED) is a key tenet of research in entrepreneurship (Tayab et al., 2020). As countries try to carefully tread across the path of technological unemployment created by increased automation, machine learning, and artificial intelligence, there is more impetus on ED and self-sustaining enterprises. Based upon the level of socio-economic progress and technological development, each economy witnesses differing roles and economic impact played by entrepreneurship (Peredo & McLean, 2006; Van Stel, Carree, & Thurik, 2005). World Economic Forum (2018a,2018b) also advocates strong and resilient private enterprises for sustained national competitiveness. As it is often said, necessity breeds innovation, high levels of entrepreneurial initiatives are often associated with countries where economic progress is on the slow track (Amorós & Cristí, 2008; Bruton, Ahlstrom, & Obloj, 2008). It thus becomes critically important to calibrate a systematic review of the literature using bibliometrics to identify the emerging patterns of research and scholarship in entrepreneurship development, this most important field of entrepreneurship research.

Realigning to the “new normal” phenomena caused by the novel coronavirus and the global pandemic calls for a relook at the ways enterprises innovate for new tactical and strategic product – market extensions and outreach (Kim & Huarng, 2011; Krishna & Kummitha, 2020). In a sense, innovation can also be expressed as a key business activity to spur economic growth (Huarng, 2011; Wu, 2013). It is the intrapreneurial and entrepreneurial ecosystem that makes it a perfect haven to launch innovations in products and services to create value for all associated stakeholders, including companies, collaborators and customers (Dibrell, Craig, & Hansen, 2011; Laforet, 2008; Lewis, Welsh, Dehler, & Green, 2002; Mousa & Wales, 2012; Parellada, Ribeiro, & Huarng, 2011; Wu, 2011). Notwithstanding the eminence of innovation management for entrepreneurial excellence (Greve, 2003), a structured review of literature on the interdependence between innovation management (IM), entrepreneurial development (ED), and entrepreneurship is what we explore here through statistical analysis of literature and natural language processing, using computational bibliometrics.

There is considerable interest in stakeholder engagement (SE) in better managing innovation in entrepreneurial ventures. Freeman (1984) introduced the strategic importance of stakeholders for successful enterprises. Stakeholders are the raison-de-être for enterprises'...
brand equity (Bresciani, Thrassou, & Vrontis, 2013; Contò, Fiore, Vrontis, & Silvestri, 2015; Kumar & Pansari, 2016; Kaufmann & Shams, 2015), new project, and product development (Aarikka-Stenroos, Sandberg, & Lehtimäki, 2014; Ind, Iglesias, & Schultz, 2013), and effectively creating, communicating, and delivering value for customers of a commercial enterprise (Huggins & Thompson, 2015; Kaufmann & Shams, 2015; Ramaswamy & Ozcan, 2016, 2018; Shams & Kaufmann, 2016). Proactive and effective SE builds an innovation climate in organizations, which leads the entrepreneurial venture to sustainable competitiveness (Gautam, 2017). In this context, this Journal of Business Research’s (JBR) special issue on “innovation management and entrepreneurial development: the antecedent role of stakeholder engagement” aims to “contribute to our current understanding on how entrepreneurs could leverage their external and internal stakeholder networks for sharing knowledge and resources to plan and implement innovative entrepreneurial strategies collaboratively” (Correia Loureiro, Romero, & Bilro, 2019). The significance of SE has been well-acknowledged in past literature on entrepreneurship (Chesbrough, 2006; Mount & Martinez, 2014; Vargo & Lusch, 2004, 2011, 2016, 2017); therefore, a deterministic bibliometric review of the forward and backward linkages of SE-interfacing IM and ED have been examined for managerial insights and scholarly contribution to this immensely important field of research in entrepreneurship (Christofi, Leonidou, Vrontis, Kitchen, & Papasomolou, 2015; Christofi, Vrontis, & Leonidou, 2014; Christofi, Leonidou, & Vrontis, 2017).

Peter Drucker said, “Innovation is the specific tool of entrepreneurs, the means by which they exploit change as an opportunity for a different business or service” (Drucker, 1985, p. 28), acknowledging further the fundamental role of entrepreneurs in business innovation management. Entrepreneurs’ collaborative efforts of sharing knowledge from external sources, in general, underpin business and management innovation process (Chesbrough, 2006). Open innovation is defined as “the use of purposeful inflows and outflows of knowledge to accelerate internal innovation, and expand the markets for external use of innovation, respectively” (Chesbrough, 2006, p. 1). Therefore, the open innovation concept appears complementary to the entrepreneurs’ prospective collaborative efforts with their external and internal stakeholders in order to share knowledge and other resources for innovation management. A “rewarding value-delivery process (that is generally an outcome of innovation management) does not rely solely on an organization’s or its entrepreneur’s inspired efforts. Stakeholders, the most important associates of a value-delivery network and their significant contributions, are certainly required for a win–win outcome” (Kaufmann & Shams, 2015, p. 10). In this essence, entrepreneurs recognize that they cannot depend solely on their in-house knowledge and resources to successfully plan, implement, and monitor the innovation processes in a way that could ensure their business offerings’ sustainable competitive advantage. Entrepreneurs’ extant and embryonic stakeholder networks are a substantial source of capital that can increase entrepreneurs’ success propensity (Smith & Lohrke, 2008) in innovation management to establish, maintain, and enhance a rewarding value delivery network for win–win outcomes for all involved stakeholders. Consequently, entrepreneurs should be aware of numerous issues, for example, where and how they and their stakeholders encounter challenges, mutually utilize opportunities, and (co–)create value through the collaborative innovation process (Kaufmann & Shams, 2015). The extent entrepreneurial literature acknowledges the significance of SE for IM and ED research and practice; “however, there is little (critical) research that explicitly links business models to...innovation strategies” from the context of realizing “how entrepreneurial firms leverage network competence”, in particular to plan, implement, and evaluate proactive win–win innovation strategies for IM and ED, in collaboration with key stakeholders.

An entrepreneur’s initiative to engage with their stakeholders is however instrumental in identifying innovation opportunities; there is considerably less research on the contexts that are useful for entrepreneurs to influence their stakeholder networks to underpin innovation management, and also, there is further limited work on how entrepreneurs could inspire the relations between SE and innovative entrepreneurial opportunity identification (Burns, Barney, Angus, & Herrick, 2014). For example, the “theories of entrepreneurship (that) most typically focus on characteristics specific to the individual (entrepreneur)’ often ignore the possibilities of entrepreneurs’ stakeholder networks to explore and manage innovative entrepreneurial opportunities. Focusing on this major research gap related to SE, IM, and ED, Huggins and Thompson (2015) argued that “despite the growing acknowledgement that entrepreneurship is an important driver of innovation and growth, the role of the (stakeholder) networks in these processes has been less formally examined” (p. 103).

In recent years, scholars have further acknowledged the significance of SE to underpin IM and ED, and have also identified many areas where we need novel insights to underpin our knowledge. For example, in a recent study on human capital (HC), financial capital (FC), and social capital (SC, that is generally evolved from entrepreneurs’ stakeholder networks), Linder, Lechner, and Pelzel (2020) argued that we need novel insights into “how HC creates functional SC for founders (of new ventures), especially how multiple forms of HC might be used to create multiple forms of SC” (p. 925), as well as to explore “what type of SC investment is particularly relevant for new venture survival” (p. 925). In another recent study on the impact of socioemotional wealth (SEW) on family firms, researchers argued that we need to “delve deeper into SEW conflicts in FOBs (family-owned businesses) by investigating conditions under which the combination of (innovative) value ascribed to SEW (restricted socioemotional wealth) and SEW (extended socioemotional wealth) changes” (Laffranchini, Hadjimarcou, & Kim, 2020, p. 205). In another study on signalling and social exchange for coachable entrepreneurs, Cuchita, Lerwin, Stevenson, McMahon, and Huvaj (2018) argued that “given that stakeholders often commit more than capital to a startup, they commonly stress how important it is for entrepreneurs to be ‘coachable’. To date, however, coachability has received little attention in entrepreneurship research” (p. 860). In fact, entrepreneurship researchers are concerned that research on entrepreneurship has exploded over the past two decades, attracting worldwide attention. Showing greater rigor and creativity, this research has achieved greater academic legitimacy and approval. But much of this research goes unused (in practice) perhaps because it focuses more on what researchers want to study, rather than what our (an entrepreneur’s) different stakeholders care about (Wilkund, Wright, & Zahra, 2019, p. 433).

Centring on this critical research gap on the antecedent role of SE in IM for ED, this introductory paper of this JBR special issue aims to undertake a meta-analysis at the intersection of SE, IM, and ED to understand the progress on the foremost themes and correlation (and dissimilar aspects) among these three recognized, but under-researched concepts, of entrepreneurship research, and to recognize the embryonic research directions in this field.

1.1. Foundation of bibliometric studies in SE, IM, and ED

The focus of this section is to review contemporary studies in entrepreneurship literature related to SE, IM, and ED, using bibliometric techniques and longitudinal statistical analysis of 1059 articles published in the Journal of Business Research and other relevant business and management journals indexed with Scopus from 1974 until July 2020.

While preparing the template for bibliometric analysis of SE, IM, and ED, we observed that there are considerable journals in the field of entrepreneurship that publish findings in one or more fields of research interest. Our research, however, is only focused on articles in the Journal of Business Research. A preliminary review of the literature database in the JBR revealed 2147 articles on entrepreneurship published between 1974 and 2020. The United States of America, the United Kingdom, Spain, and India are the major countries contributing to entrepreneurial research (Chart 1).
Authors Wincent, J; Parida, V; Kraus, S; Huang, K H; and Ussahawanitchakit are the major contributors to entrepreneurial research, averaging 12 to 13 contributions each from 1974 until 2020 (Chart 2).

Theories and applications in Business and Management constitute over 80% of the studies on entrepreneurship as reflected from the Scopus database on JBR (Chart 3).

SE, IM, and ED are the key tenets of entrepreneurship, and considered the primary drivers to navigate the engine of economic progress. In pursuit of understanding the context and influence of SE, IM, and ED, we have attempted to study the trends and progress of scholarly research, by identifying the articles published in the JBR. We employed a structured literature review and meta-analysis to identify the emerging research patterns in prospective observational studies encompassing these three cognate fields of entrepreneurship research.

It is pertinent to mention that numerous studies have been published in the recent past, focusing on SE, IM, and ED as three sovereign areas of research in entrepreneurship. In this study, we went a step further to examine the self-determining role of SE, IM, and ED, using computational bibliometrics and data-visualization techniques.

Our research focused on a bibliometric study of 1059 articles from Scopus, for a deeper analysis of the evolution of literature on research in SE, IM, and ED in entrepreneurship research. Using a bibliometrics and data visualization framework, it was possible to efficiently analyze the entrepreneurship database of JBR while systematically reviewing the wide-ranging research in these three areas, thereby elucidating a structural foundation of the past, present, and future research directions in entrepreneurship research published in JBR.

The scientometric approach of bibliometrics is rooted in library science and information management literature, and is focused on the statistical analysis of bibliographic databases (Broadus, 1987; Pritchard, 1969). Bibliometric analysis ranges from the appraisal of the scientific impact of a publication, author, or journal based upon total or relative figures of citations and number of publications (Baier-Fuentes, Merigó, Amorós, & Gaviria-Marin, 2019), employing the Hirsch Index or h-index, or the Journal Citation Reports (JCR) impact factor. With the data-visualization tool VosViewer®, the major identifiers used are citations; bibliographic coupling to find if two documents share a common reference, especially in short periods (Boyack & Klavans, 2010; Vogel & Güttel, 2013); and co-occurrences of words (Callon, Courtial, Turner, & Babinet, 1983; Kessler, 1963; Vogel & Güttel, 2013; Zupic & Čater, 2015) to analyze the commonly occurring keywords in the articles on entrepreneurship. Also, co-citation (Small, 1973) has been used to identify the knowledge base in SE, IM, and ED literature.

This bibliometric study assessed articles published in JBR, since its inception. It is interesting to note that Ferreira published the first bibliometric study in JBR in 2014 on mergers and acquisitions research in top strategy and international business journals. Merigó (2015) published a bibliometric overview of the Journal of Business Research between 1973 and 2014.

A retrospective analysis of data collected showed that all 22 bibliometric studies mentioned in Table 1 were published in JBR by
1. The need for a bibliometric analysis

What determines SE, IM, and ED in entrepreneurship research? What are the emerging research trends in specific areas of SE, IM, and ED? Why do we need a review of these questions? What motivated us to undertake this research? Inspired by Leonidou, Christofi, Vrontis, and Thrassou (2018) and Piñeiro-Chousa, Ángeles López-Cabarcos, Romero-Castro, and Pérez-Pico (2020), the two classic expositions on an integrative framework of SE for IM and ED, we explain our motivation across key dimensions.

First, SE, IM, and ED (especially the latter two) are core concepts in traditional research in entrepreneurship (Amjad, Rani, & Sa’atar, 2020; Bhupatiraju, Nomaler, Triulzi, & Verspagen, 2012; Carlsson, Braunerhjelm, & McKelvey, 2013; Fagerberg, Landström, & Martin, 2012; Landström, Harirchi, & Åström, 2012; Martin, Nightingale, & Yegros-Yegros, 2012). However, some of these streams originated in pure liberal arts and social sciences and not necessarily in pure-play business and management. The development of these concepts happened mostly in silos, necessitating researchers to take a look at an integrated view of the emerging discipline in entrepreneurship research.

Second, the connections and interfaces of SE, IM, and ED are considered the key to entrepreneurial success and growth. The interaction effects are prominently expressed in entrepreneurship and IM (Crossan & Apaydin, 2010; Secundo, Del Vecchio, & Passiante, 2015), and entrepreneurship and entrepreneurial development (Galindo-Martín, Méndez-Picazo, & Castaño-Martínez, 2016).

From this perspective, the investigation of the interfaces of SE, IM, and ED and complementarities fortifying associations among these three nodes of entrepreneurship research acquires special interest, particularly for the independent enterprise research in management sciences.

The bibliometric analysis of SE, IM, and ED aspires to discover how the three concepts in entrepreneurship are being considered in recent academic contributions in the Journal of Business Research.

As a meta-analytical and longitudinal form of research, bibliometrics can help researchers to understand the origin and evolution of a discipline (Hérubel, 1999), as well as complementing and extending the results obtained using more traditional literature review techniques (Ramos-Rodríguez & Ruiz-Navarro, 2004; Seyedghorbani, Jekanyika, & Laplaca, 2015).

The bubble map (Fig. 3) of Author vs Year shows that publications in JBR have increased exponentially with two publications in 2018, six publications in 2019, and seven publications in 2020. This shows the widespread use of bibliometric software, mostly VOSViewer, and citation/co-citation bibliometric outputs have been published in JBR. The bibliometric publications’ topics in JBR are unique.

1.2. Various authors from different countries. The matrix chart displays terms as nodes and shared records or correlations (depending on matrix type) as lines between them. The matrix of Authors by Country (Fig. 1) shows that Spain has the maximum number of scholarly publications in JBR with keywords as bibliometric, followed by Germany and Austria. The matrix shows the various authors who have contributed to the body of knowledge of bibliometric analysis in JBR and their linkages to various countries. This helps us understand how the bibliometric domain has evolved in JBR since its inception. The blue nodes represent the rows of the matrix which have author names; the brown nodes represent the columns with country names. Fig. 2 illustrates the Matrix of Author Year by Author Keywords.

The analysis examines only bibliometric publications in JBR, and therefore, the results are limited to 22 publications published to date. This matrix and bubble graphs in Fig. 3 offer insights and provide a starting point for the literature review of bibliometric analysis in JBR, and then progresses to the current research of SE, IM, and ED. Several bibliometric studies have been published in JBR, and several authors around the world have widely used bibliometrics to understand the origin and evolution of a discipline (Hérubel, 1999) and to complement and extend the results obtained using more traditional literature review techniques (Ramos-Rodríguez & Ruiz-Navarro, 2004; Seyedghorbani et al., 2015).

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It examines the extant literature on entrepreneurship published in JBR since its inception. This exercise aids in a progressive understanding of the developmental patterns of research and in determining whether SE, IM, and ED are still developing as three distinct research domains today. This will also assist researchers to visualize the underlying rubric of evolving patterns of research in SE, IM, and ED in entrepreneurship research.

The bibliometric analysis broadly addresses the following research objectives:

1. To outline the existing research facing the intersection of SE, IM, and ED; identifying the most relevant authors, articles and journals, since inception, and visualizing frequent keywords and citations, using natural language processing.

2. To visualize and plot the networks or links among the dissimilar elements of SE, IM, and ED.
| Sr. No | Authors | Title | Year | Country | Author keywords |
|-------|---------|-------|------|---------|----------------|
| 1     | Ferreira M.P., Santos J.C., de Almeida M.I.R., Reis N.R. | Mergers & acquisitions research: A bibliometric study of top strategy and international business journals, 1980–2010 | 2014 | Portugal | Bibliometric study; Citations; Co-citations; Mergers & acquisitions; Research themes; Review |
| 2     | Merigó J., Mas-Tur, Roig-Tierno, and Ribeiro-Soriano (2015) | A bibliometric overview of the Journal of Business Research between 1973 and 2014 | 2015 | Spain | Bibliometrics; Business research; Journal analysis; Web of Science |
| 3     | Kunter M., Teichert T. | The scope of price promotion research: An informetric study | 2016 | Germany | Bibliometric analysis; Business incubators; Entrepreneurship; Web of Science |
| 4     | Albort-Morant G., Ribeiro-Soriano D. | A bibliometric analysis of impact of business incubators | 2016 | Spain | Areas of knowledge; Bibliometric Analysis; Journals of Social Entrepreneurship; Social Entrepreneurship |
| 5     | Rey-Martí, Ribeiro-Soriano, and Palacios-Marqués (2015) | A bibliometric analysis of social entrepreneurship | 2016 | Spain | Bibliometric analysis; Co-creation; Contexts of study; Fields of application |
| 6     | Alves, Fernando, and Raposo (2016) | Value co-creation: Concept and contexts of application and study | 2016 | Portugal | Bibliometrics; Co-citation analyses; Conspicuous consumption; Literature review; Luxury; Status consumption |
| 7     | Guriú and Woisetschläger (2016) | Mapping the luxury research landscape: A bibliometric citation analysis | 2016 | Germany | Bibliometric analysis; Born global; Co-citation analysis; Intellectual structure; Literature review; VOSviewer |
| 8     | Dziakowski (2018) | A bibliometric analysis of born global firms | 2018 | Poland | Bibliometric analysis; Intellectual structure; Kruskal-Wallis test; Literature review; VOSviewer |
| 9     | Ferreira (2017) | Mapping the field of arts-based management: Bibliographic coupling and co-citation analyses | 2017 | USA | Bibliometric analysis; Intellectual structure; Literature review; VOSviewer |
| 10    | Danvila-del-Valle, Estévez-Mendoza, and Lara (2019) | Human resources training: A bibliometric analysis | 2019 | Spain | Bibliometrics; Citation and co-occurrence analysis; Human resources; Knowledge mapping; Training |
| 11    | Mulet-Forteza, Genovart-Balaguer, Mauleon-Mendez, and Merigó (2018) | A bibliometric research in the tourism, leisure and hospitality fields | 2018 | Chile | Bibliometrics; Ranking; Research productivity; Tourism; Web of science |
| 12    | Vallaster, Kraus, Merigó Lindahl, and Nielsen (2019) | Ethics and entrepreneurship: A bibliometric study and literature review | 2019 | Austria | Bibliometric analysis; Entrepreneurship; Ethics; Literature review |
| 13    | Kücher and Feldbauer-Durstmüller (2018) | Organizational failure and decline – A bibliometric study of the scientific frontend | 2018 | Austria | Bankruptcy; Bibliometric study; Citation analysis; Co-citation analysis; Literature review; Organizational failure |
| 14    | Brage et al. (2019) | Unveiling the intellectual structure and evolution of external resource management research: Insights from a bibliometric study | 2019 | Finland | Bibliometric analysis; Cross-disciplinary research; External resource management; Intellectual structure; Text-mining; Visualization |
| 15    | Kim, Kang, and Lee (2019) | Evolution of digital marketing communication: Bibliometric analysis and network visualization from key articles | 2019 | South Korea | Bibliometric analysis; Citation analysis; Co-citation analysis; Data visualization; Digital marketing communication |
| 16    | Verma and Gustafsson (2020) | Investigating the emerging COVID-19 research trends in the field of business and management: A bibliometric analysis approach | 2020 | Denmark | Bibliometric analysis; Business & management; Co-word analysis; COVID-19; Emerging research topics |
| 17    | Piteiro-Chousa, López-Cahorros, Romero-Carvajal, and Pérez-Pico (2019) | Innovation, entrepreneurship and knowledge in the business scientific field: Mapping the research front | 2019 | Spain | Bibliometrics; Entrepreneurship; Innovation; Knowledge; Research front |
| 18    | Guerras-Martín, Ronda-Pupo, Zúñiga-Vicente, and Benito-Osorio (2020) | Half a century of research on corporate diversification: A new comprehensive framework | 2020 | Chile | Bibliometrics; Comprehensive framework; Corporate diversification; Evolution of the field; Literature review; Strategic management |
| 19    | Zuschke (2020) | An analysis of process-tracing research on consumer decision-making | 2020 | Germany | Bibliometric analysis; Consumer decision-making; Consumer neuroscience; Eye-tracking; Process-tracing; Verbal protocol |
| 20    | Donthu, Kumar, and Putnaik (2020) | Forty-five years of Journal of Business Research: A bibliometric analysis | 2020 | India | Bibliographic coupling; Bibliometrics; Gephi; Journal of Business Research; Scopus; VOSviewer |
| 21    | Vanhal et al. (2020) | The usage of large data sets in online consumer behavior: A bibliometric and computational text-mining-driven analysis of previous research | 2020 | Finland | Bibliometric analysis; Consumer behavior; Large datasets; Online; Text analysis |
| 22    | Kent Baker, Pandey, Kumar, and Haldar (2020) | A bibliometric analysis of board diversity: Current status, development, and future research directions | 2020 | India | Bibliometric analysis; Board diversity; Citation network; Gender; Systematic literature review; Web of Science |
3. To distinguish the foremost themes underlying the SE, IM, and ED research frontage.

4. To investigate the scope and coverage of correlation or intra-dependence among the three concepts in entrepreneurship research.

1.3. Research methodology, article selection, and analysis

This section is concerned with the methodology, article selection, and analysis of the related research. A systematic review methodology, as illustrated in Fig. 4, applies a specific protocol, to search and critically analyze existing literature. To address the research questions of this study, we identified several research articles published in JBR. We retrieved existing literature in JBR from Elsevier’s Scopus database using keywords related to “Bibliometrics”, “stakeholder engagement”, “innovation management”, and “entrepreneurship development”. The keyword search in Scopus was set to include titles, abstracts, and keywords to retrieve all relevant publications. The search period was set to include articles published in JBR since its beginning. Only English-language publications were considered for the review process.

In Table 2 the initial database search revealed 1059 articles. The screening process resulted in a unique sample of 22 different researchers who published articles between 2014 and May 11, 2020 related to bibliometrics. The screening process resulted in a unique sample of 64 different researchers who published articles on IM and 184 articles on ED and 39 on SE.

To realize our research focus, we conducted an exhaustive bibliometric analysis, involving both VantagePoint® based bibliometric performance analysis and VOSviewer® based analysis, using the Scopus database. Our computational bibliometric analysis focuses on articles on entrepreneurship with concentrations on SE, IM, and ED; authors; affiliated institutions; and geographies. The VantagePoint® aided in text mining from literature databases to rapidly discover WHO, WHAT, WHEN, and WHERE, facilitating to clarify relationships and find critical patterns of the interconnectedness of SE, IM, and ED in the extant entrepreneurship literature. Graphical analysis with VosViewer® uses co-citation, bibliographic coupling, and co-occurrence of keywords. The results of both analyses are consistent. The bibliometric analysis plays an informative and complementary role, as it presents most of the key aspects of deep-lying feedforward and feedback interlinkages of SE, IM, and ED in mainstream entrepreneurial research. It is interesting to note

![Fig. 1. JBR bibliometric publications matrix of authors by country.](image1)

![Fig. 2. JBR bibliometric publications matrix of author year by keywords.](image2)
that bibliometric methods involving a combination of VantagePoint® and VOSViewer® offer categorization and reproduction methods that can advance understanding of the dissemination of knowledge in revealing the contribution of SE, IM, and ED in entrepreneurship research, and can highlight gaps and opportunities that contribute to the advancement of the discipline.

In particular, we used VantagePoint® Academic Version: 2020 (Porter, Chiavetta, & Newman, 2020) and VOSViewer® version 1.6.15 (Van Eck & Waltman, 2010), released on April 1, 2020.

VantagePoint’s® algorithm is a fuzzy matching technique used on combination term fields, composed of Title, Abstract, and Keyword fields, systematically processed using natural language processing. With a high degree of accuracy, the algorithm of VantagePoint®, within a given set of databases, can predict the growth in research attention in the field for the next two to five years. We have established clustering of emerging terms in SE, ED, and IM using VantagePoint’s PCA (Principal Components Analysis) routine to generate appealing, well-comprehended developing research themes (Wang et al., 2019).

VOSViewer® software permits researchers to harmonize the visual analysis with tabulated information, which can be employed to calculate metrics for each network, such as density and degree. Density is defined as the ratio of the number of links in the network to the total possible number of links. Degree specifies the average number of links of the nodes included in the network (Vogel & Güttel, 2013). The higher the density and the degree the more is the interdependence and connectedness of the networks.

The size of the nodes is dependent upon the number of links to other nodes. The greater the proximity between the two nodes, or the greater the thickness of the line that links them, the stronger is the association between them (Waltman & Van Eck, 2019). In our analysis, we have preferred the fractional counting route (Perianes-Rodriguez, Waltman, & van Eck, 2016) in the data visualizations accomplished with the VOSViewer® software.

Primarily we attempted to understand the relational networks and theoretical basis of stakeholder engagement’s associative correlation with innovation management that leads to entrepreneurial development.

1.4. Bibliographic coupling

VOSviewer is a computer program that was developed for creating, visualizing, and exploring scientific bibliometric maps. (Castillo-Vergara, Alvarez-Marín, & Placencio-Hidalgo, 2018). The VOSviewer results of bibliographic coupling describe the extent to which two articles are related by virtue of them both referencing the same article. Bibliographic coupling and network analysis to assess knowledge coalescence in a research center environment (Kessler, 1963).

The bibliographic coupling of ED in JBR is illustrated in Fig. 5, of IM.
Fig. 4. JBR bibliometric methodology.

in Fig. 6 and of SE in Fig. 7. Colors indicate clusters of researchers that are relatively strongly related to each other. Large circles represent researchers that have many publications. Small circles represent researchers with only a few publications. In other words, researchers that are located close to each other tend to cite the same publications, while researchers that are located far away from each other usually do not cite the same publications.

In Fig. 5 there are four clusters: three are moderate and one is small. The clusters are indicated by blue, red, green, and yellow. In the Bibliographic coupling visualization presented in Figs. 5–7, each circle represents a researcher. Yli-Renko (2001), Sambamurthy (2003), Lee (2001), and Jones (2011a) form one prominent node in blue color. Rothaermel (2007), Elfring (2003), Autio (2014), Spigel (2017), Mair (2009), Dakhlin (2004), Bowen (2008), and Davidson (2015) form another node, displayed in red.

Muller (2001), Linan (2009), Schlaegel (2014), and Kuckertz (2010) form the small node in yellow. Lumpkin (2001), Jones (2005), Rosenbusch (2011), and Covin (2011) form the fourth node in green.

Fig. 6 displays bibliographic coupling of IM and displays three major clusters in red, blue, and green. Hulzingh (2011), West (2014), Faems (2005), Gawer (2014), and Danneels (2004) are the prominent authors in the red cluster. Gracia (2001), Griffin (1996), Adams (2006), and Sivadas (2000) are the prominent authors in the blue cluster, and Anderson (2014), Narver (2004), and Nambisan (2009) are the prominent authors in the green cluster. In addition to these three main clusters, there is an emerging small cluster in yellow with Poets (2012) and Franke (2006) as the main contributing authors.

Fig. 7 displays bibliographic coupling of SE in four clusters, in red, green, blue, and yellow. The red cluster has Voinov (2010), Reed (2014), Forsythe (2016), and Rycroft-Malone (2016) as prominent authors, followed by the green cluster with Jongbloed (2008), Foerstl (2015), and Sloan (2013). Godfrey (2009) and Arayssi (2016) are in the blue cluster, and Prado-Lorenzo (2009) and Skouloudis (2010) are in the yellow cluster.

Table 2
JBR bibliometric methodology steps.

| Sr. No. | Steps                              | Used data bases or programs | Justifications necessary towards the taxonomy and recommendations for future research                |
|---------|------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------|
| 1       | Data Collection                    | Scopus: 1059 core publication articles | Independent search through JBR since 1973 with search terms as “Bibliometric”, “Entrepreneurship Development”, “Innovation management” and “Stake Holder Engagement”. |
| 2       | Quality Checks                     | On Scopus                   | To guarantee all documents are related to JBR                                                   |
| 3       | SMS analysis and cluster identification | VOSviewer                | Networking map of documents based on Bibliometric coupling.                                   |
| 4       | Further analysis and maps          | VOSviewer, Vantage Point    | Co-citation maps of cited references, authors, and journals, bibliographic coupling maps of organizations and WoS research areas, development of research literature. + Bubble maps, Matrix maps, Correlation maps, Factor maps, etc |
| 5       | Cluster interpretation             |                             | Text Mining Technique, (term extraction, term filtering, term phrases, and association rules) to define clusters |
| 6       | Taxonomy scheme                    |                             | All analyses were merged into a taxonomy scheme, clusters were studied to identify current trends and future research recommendations. |
Fig. 5. ED bibliographic coupling network.

Fig. 6. IM bibliographic coupling net.

Fig. 7. SE bibliographic coupling network.
Fig. 8. ED co-citation network.

Fig. 9. IM co-citation network.

Fig. 10. SE co-citation network.
1.5. Citation and co-citation analysis

Citation analysis is used to examine the degree of connectivity between pairs of nodes/papers in the created node network. (Fahimnia, Sarkis, & Davarzani, 2015). Co-citation analysis itself consists of methods including bibliographic coupling, document co-citation analysis, author co-citation analysis, and co-word analysis (Charvet, Cooper, & Gardner, 2008; Eom, 2003).

Originally, bibliometric analyses started in information sciences (Osareh, 1996). Figs. 8–10 show the prominent nodes in the citation network with a high number of local citations. In the network of bibliographic couplings, several regions that display densely interconnected nodes are prominent (Vogel & Gütte, 2013).

Fig. 8 shows five prominent clusters of co-citation networks for ED: Barney (1991), Teece (1997), Armstrong (1977), and Fornell (1981) are the main authors in the red cluster. The green cluster has Shane (2000), Krueger (2000), and Ajzen (1991) as prominent authors; the blue cluster has Wennekers (1999) and North (1990) as prominent authors.

Fig. 9 illustrates the IM bibliographic citation network.

Fig. 10 presents the SE bibliographic citation network.
Fig. 14. ED co-occurrence visualization.

Fig. 15. IM co-occurrence visualization.
the yellow cluster has Granovetter (1985) and Eisenhardt (1989); and the purple cluster has Shane (2004) and Etzkowitz (2000) as the prominent authors in the ED co-citation diagram.

Fig. 9 shows the co-citation network for IM, with four nodes in green, blue, yellow, and red, which are largely scattered. Cohen (1990), Krueger (2000), Yli-renko (2001), Sambamurthy (2003), Pittaway (2007), and Gulbrandsen (2005) are the most prominent authors, indicating their relative importance in the field of IM.

Fig. 10 shows the co-citation network for SE, with five nodes: green, blue, yellow, purple, and red, which are small and generally closely connected. McWilliams (2000) is prominent in the blue network, Freeman (1984) in the purple network, Reed (2018) and Arnstein (1969) in the red colored network, Braun (2016) in the green network, and Morsing (2006), Adams (2002), Kaplan (2010), and Waters (2009) are seen in the yellow network.

In citation diagrams, each research cluster is displayed in a different color. The shorter the length of the mean path between one node and others, the higher is its centrality in the network. (Vogel & Güttel, 2013). In the citation diagram, the size of each node reflects its citation frequency. Looking at networks, nodes that are more central, connect nodes of the network that are on the periphery. With this algorithm, the most connected nodes move to the center of the network while the more isolated (less connected) nodes move to the borders (Fahimnia et al., 2015).

Fig. 11 shows the citation network for ED: Krueger (2000), Yli-renko (2001), Sambamurthy (2003), Pittaway (2007a), and Gulbrandsen (2005) are the most prominent nodes in the network, indicating their relative importance in the field of ED.

Fig. 12 shows the citation network for IM, with multiple nodes which are well fragmented. The prominent authors are Teece (2010), Faema (2005), Gracia (2002), and Griffin (1997). Fig. 13 shows the citation network for SE, with authors Ray (2013), Godfrey (2009), Voinov (2010), Pomeroy (2018), Lovejoy (2012b).
2. Co-occurrence

Each circle in the visualizations presented in Figs. 14–16 represents a factor. The size of a circle reflects the number of times the factor has been studied and published.

VOSviewer identified six clusters in ED co-occurrence, which are indicated using colors in the visualization shown in Fig. 14. The light blue cluster is relatively small and is displayed as an outlier towards the right and consists of keywords such as “expression”, “design”, “systems”, “inflammation”, and “catalyst”.

Of the four larger clusters, the blue one consists mainly of “entrepreneurship”, “growth”, “competition”, “entry”, and “self-employment”. The green cluster consists of “entrepreneurial orientation”, “firm performance”, “management”, “competitive advantage”, “absorptive capacity”, and “research and development” as the key research areas.

The yellow-colored cluster has keywords such as “impact”, “framework”, “gender”, “self-efficacy”, “personality”, and “perspective”. The purple color covers “firms”, “market”, “collaboration”, “technology-transfer”, “clusters”, “commercialization”, “startups”, etc., and the red cluster consists of keywords such as “governance”, “policy”, “politics”, “migration”, “city”, “framework”, and “identity”.

VOSviewer identified six clusters of IM co-occurrence (Fig. 15). The green color cluster shows “innovation”, “innovation management”, “industry”, and “firms” as the most developed areas, followed by “research and development”. The red-colored cluster has keywords such as “design”, “quality”, “model”, “behavior”, “users”, and “perceptions” that have been well developed or predominant. The yellow-colored cluster is fragmented to a large extent, with emerging areas such as “satisfaction”, “employee creativity”, “mediating roles”, and “work”. The purple-colored cluster is also fragmented but has some emerging areas such as “exploitation”, “competitive advantage”, and “market orientation”.

VOSviewer identified four main clusters in SE co-occurrence (Fig. 16). The red cluster shows “care”, “patient engagement”, “children
coverage”, and “participatory research” as the most developed areas. The predominant areas in the blue-colored cluster are “impact”, “performance”, “sustainable development”, “CSR”, and “financial performance”. In the green cluster, the dominant areas are “framework”, “policy”, “conversation”, “science”, and “climate change”. Finally, the yellow-colored cluster is fragmented and has areas such as “social license”, “online”, and “technology”.

**Factor map VantagePoint** can be used to create visual maps of data. A factor map is a graphical representation of the results of a principal component analysis (PCA), which finds the list of items that frequently occur together in the dataset. We performed a PCA to study the network of co-cited factors (Fig. 17). Each node in the map represents a cluster of terms. The lines between nodes represent a measure of similarity between the two clusters of terms. The thickness (or pattern) of the line indicates the degree of similarity (as defined in the legend) – a number between 0 and 1. To reduce visual clutter, only the strongest of the entire set of similarities are shown. It is seen that professional values, perspectives, opportunity-driven entrepreneurship, and influences have factor map links of 0.50 to 0.75.

New product development alliances have weak similarities with entrepreneurship orientation, absorptive capacity, joint impact, etc. The main advantage of this program over most information technology programs available for bibliometric mapping is that it focuses on the graphical representations of the maps. The matrix chart displays terms as nodes and shared records or correlations (depending on matrix type) as lines between them. The matrix of Country by Author Keywords in Fig. 18 shows the USA has the most scholarly publications in JBR with keywords such as “entrepreneurship development”, followed by Spain and the UK. The matrix in Fig. 19 shows the various authors who have contributed to the body of knowledge of ED in JBR and their linkages to various countries. This helps us understand how the bibliometric domain has evolved in JBR since its inception. The blue nodes represent the rows of the matrix which has author names and year; the brown nodes represent the columns with country names. Fig. 19 illustrates the matrix of Author Year by Country.

The bubble map of Fig. 20 illustrates the Author vs Country, and it is apparent that publications in JBR have increased exponentially in the USA, followed by the UK, Spain, and Italy in the domain of ED.
A cross-correlation matrix shows correlations among items in a list based on the values in another list. There are three types of maps offered in VantagePoint: cross-correlation map, auto-correlation map, and factor map. A cross-correlation map shows relationships among items in a list based on the values in another list. For example, a cross-correlation matrix of authors, using descriptors, can show groups of people who write about the same things.

Fig. 21 shows a cross-correlation map with 51 nodes for IM, which can be interpreted that authors, such as Rosa (2018), Allen (2015), Gombault (2016), and Kashmiri (2016), have links > 0.75. Similarly, authors Ratten (2016) and Ngo (2013) have a strong cross-correlation.

Cenamor (2019) and Bianchi (2020) have a strong cross-correlation, as do Bos (2015) and Frambach (2002).

In addition to the above, there are small clusters formed by authors like Hubert (2017) with Poorkavoos (2016) and Pantano (2019), and Gonzalez (2018), Maravilhas (2019), and Jugend (2016) forming an isolated cluster.

The matrix chart displays terms as nodes and shared records or correlations (depending on matrix type) as lines between them. The matrix of Country by Author Keywords in Fig. 22 shows that the USA has the most scholarly publications in JBR with keywords such as “innovation management”, followed by Italy, Spain, Taiwan, and the UK. The matrix in Fig. 23 shows the various authors who have contributed to the body of knowledge of IM in JBR and their linkages to various countries. This helps us understand how the IM domain has evolved in JBR since its inception. The blue nodes represent the rows which have author names and year; the yellow nodes represent the columns with country names. Fig. 23 illustrates the matrix of Author Year by Country.

The bubble map of Fig. 24 illustrates the Year vs Country, and it is apparent that publications in JBR have increased exponentially after 2016 in the IM domain, with most articles published in 2016 and 2019.

As an endnote for the bibliometric analysis, it is worth mentioning that dynamics of the interaction of SE, IM, and ED are shaping the scholarship of academic research in entrepreneurship. Our analyses reaffirm that contemporary research conducted at the intersection of SE, IM, and ED is indicative of the consolidation of these tenets in future bibliometric research. Although disparate studies in SE, IM, and ED in entrepreneurship research are still heterogeneous, we have successfully identified shared research focuses among contemporary commentaries that have amplified the interconnectedness of the SE, IM, and ED research fields in entrepreneurship. This is a nascent field of research to...
Fig. 23. Various authors who have contributed to the body of knowledge of Innovation management in JBR and their linkages.

Fig. 24. IM bubble map of year vs country.
Table 3
Factors that typically are studied jointly and separately in entrepreneurial development (ED), innovation management (IM) and stakeholder engagement (SE) research in entrepreneurship.

| Clusters of factors that are mostly studied together | ED | IM | ED |
|----------------------------------------------------|----|----|----|
| ED Cluster 1                                        | Entrepreneurial orientation, firm performance, competitive advantage, absorptive capacity and research and development | | |
| ED Cluster 2                                        | Growth, self-employment, market entry, market competition | | |
| ED Cluster 3                                        | Gender, self-efficacy, (entrepreneurs') personality | | |
| ED Cluster 4                                        | Collaboration, technology-transfer, commercialization, start-ups | | |
| ED Cluster 5                                        | Governance, policy, politics | | |
| IM Cluster 1                                        | Innovation management, industry-specific focus | Design, quality, behavior, users, and perceptions |
| IM Cluster 2                                        | Design, quality, behavior, users, and perceptions | | |
| IM Cluster 3                                        | Satisfaction, employee creativity | | |
| IM Cluster 4                                        | Market orientation, (opportunity) exploitation, Competitive advantage | | |
| SE Cluster 1                                        | Stakeholder engagement, stakeholder participation, stakeholder care | | |
| SE Cluster 2                                        | Corporate Social Responsibility (CSR), financial performance, sustainable development | | |
| SE Cluster 3                                        | Policy, dialogue and conversation, climate change | | |
| SE Cluster 4                                        | Technology, digital entrepreneurship, social acceptance | | |

Table 4
Exploratory and exploitative factors that are studied in entrepreneurial development (ED), innovation management (IM) and stakeholder engagement (SE) research in entrepreneurship.

| ED / IM / SE | Exploratory factors | Exploitative factors |
|--------------|---------------------|----------------------|
| ED           | Entrepreneurial orientation, absorptive capacity, research and development, self-employment, gender, self-efficacy, (entrepreneurs') personality, collaboration, technology-transfer, start-ups, governance, policy, politics | Firm performance, competitive advantage, growth, market entry, market competition, commercialization, governance, policy |
| IM           | Innovation management, industry-specific focus, behavior, users, perceptions, satisfaction, employee creativity, market orientation, (opportunity) exploitation | Design, quality, competitive advantage |
| SE           | Stakeholder engagement, stakeholder participation, stakeholder care, CSR, policy, dialogue and conversation, technology, digital entrepreneurship | Stakeholder engagement, financial performance, sustainable development, climate change, policy, social acceptance |

examine the dynamic pattern of interactions of these three tenets of entrepreneurship research leading to an integrative view. The presence of conclusive text analytics and data visualizations related to the SE, IM, and ED intersection strengthen this supposition.

3. Research directions and conclusion

Extracting from Figs. 14–16, Table 3 presents the factors that are mostly studied together and separately in SE, IM, and ED research in entrepreneurship. Table 3 presents five clusters of factors for ED, and four clusters of factors for IM and SE research. Based on Table 3, we propose mainly two research directions to underpin the research and practice on the implications of SE for IM and ED:

- research on the factors that are mostly studied separately within a single research-stream among SE, IM, and ED;
- research on the factors across the three research streams (e.g., explore the implications of a factor from IM or SE research for ED, and vice-versa).

For example, Table 3 shows that growth, self-employment, market entry, and market competition (ED cluster 2), and gender, self-efficacy, and (entrepreneurs') personality (ED cluster 3) are mostly researched separately in the ED research stream. These factors (or some of them) across the ED clusters 2 and 3 could be analyzed together to explore the implications of SE to underpin IM and ED, in order to pursue the first research direction. Similarly, for the second research direction, the factors across the different IM, ED, and SE clusters (which are mostly studied separately, as shown in Table 3) could be analyzed together for the same purpose. For example, collaboration, technology-transfer, commercialization, and start-ups (ED cluster 4), and satisfaction and employee creativity (IM cluster 3), and policy, dialogue, and conversation (SE cluster 3) could be analyzed together to explore SE's implications for IM and ED.

Extracting from Table 3, Table 4 classifies all these factors that are studied jointly and separately across SE, IM, and ED research streams in entrepreneurship as “exploratory factors” and “exploitative factors”. Based on Table 4, we propose a third research direction: analyzing the impact of SE and an ED exploratory factor on an IM exploitative factor, and vice-versa. For example, Table 4 shows that “entrepreneurial orientation” is mainly researched as an exploratory factor under the ED research stream. Future research could be undertaken to explore novel insights from diverse socio-economic, ecological, industry, and market perspectives to understand the implications of “entrepreneurial
orientation” for “design, quality, and competitive advantage”, which are mainly researched under the IM research stream as exploitative factors. Kholi and Jaworski (1990) define market orientation as the organisation-wide generation of market intelligence that pertains to current and future customer (and other stakeholders’) needs, dissemination of intelligence across departments, and organisation-wide responsiveness”. Such a development of market intelligence involves recurrent monitoring of target market conditions, relevant to customers, competitors and overall socio-economic environments to develop and offer services that are expected and accepted by customers (Shams & Hasan, 2020, p. 463).

In this context, “entrepreneurial orientation” as an explanatory factor would be instrumental to underpin the design and quality assurance initiatives of a product or service to influence its competitive advantage as an IM initiative. For example, understanding customers’ needs as part of an entrepreneurial orientation effort is generally valuable to design a product or service in a way that would be expected and accepted by the customers.

The aim of this introductory paper of this JBR special issue is to undertake a meta-analysis at the intersection of SE, IM, and ED to understand the progress on the foremost themes and correlation (and dissimilar aspects) among these three recognized but under-researched concepts of entrepreneurship research, in order to explore the embryonic research directions in this field. To meet this aim, our meta-analysis presents the existing research at this intersection, and identifies the most relevant authors, articles, journals, keywords, and citations in this field, as well as presents the links (i.e., the factors that are mostly studied together) and divergences (i.e., the factors that are mostly studied separately) as the key themes of research in this field. Furthermore, we present three research directions based on our meta-analysis that demonstrates the correlation and inter- and intra-dependence among these key themes. In this JBR special issue, we present 28 other articles on these and different other cognate themes and topics that contribute to the research gaps at the intersection of SE, IM, and ED, which are related to the research directions that we have discussed in this paper. We invite the scholars in this field to join us in exploring novel insights centred on these research directions to underpin the SE’s contribution to IM and ED.

Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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Declarations of Competing Interest

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