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Conceptualizing context in entrepreneurship education: a literature review

Entrepreneurship education

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Abstract

Purpose – Context impacts the design and practice of entrepreneurship education, but there is limited focus on context in entrepreneurship education literature. The purpose of this paper is to review the entrepreneurship education literature to understand how context has been addressed, derives contextual elements from prioritized literature and explores how context can be adapted to and designed with in entrepreneurship education.

Design/methodology/approach — A systematic literature review is undertaken to explore context in entrepreneurship education literature. Context entrepreneurship education yielded 239 items. After refinement, 232 entrepreneurship education associated publications were reviewed by the team of authors. Using selection criteria, 26 prioritized publications were analyzed and categorized according to a theoretical framework.

Findings – Context has been addressed both conceptually and empirically, quantitatively and qualitatively, and can be categorized across three sociological phenomena levels – micro, meso and macro. Within these levels, more specific context elements emerge from the entrepreneurship education literature. The findings assert that while context is highly influential in relation to entrepreneurship education, it is arbitrarily described, and holds a variety of documented and diffuse elements. Educators have a limited span of control in relation to context elements, however, for the most parts elements can be adapted to or designed with. Finally, due to the influence of context it is difficult to identify a universal best practice of entrepreneurship education because there simply is no *ceteris paribus*.

Research limitations/implications – Contextual elements which emerged from the literature consider various subjects, spaces, structures and networks. Context is complex and has had limited treatment in entrepreneurship education literature, thus additional analysis and experimentation is necessary.

Practical implications – Context shapes understanding and influences learning. Addressing entrepreneurship education across three levels – micro, meso and macro – and through four framing questions – who, what, where and when – guides educators in how context influences and can be used when designing education.

Originality/value – The paper gives new insight into how context is addressed in entrepreneurship education literature, and how this can influence educational design.

Keywords Policy, Learning, Entrepreneurship education

Paper type Literature review

Introduction

Context is intuitively recognized and theoretical argued as important to entrepreneurship (Welter, 2011; Welter *et al.*, 2016). However, there is less agreement on what constitutes context, as it can be conceptualized at several levels and through various elements (Zahra *et al.*, 2014). Entrepreneurship research has argued for organization of context across five categories



International Journal of Entrepreneurial Behavior & Research © Emerald Publishing Limited 1355-254 DOI 10.1108/IJEBR-04-2018-0258 (Goodman and Whetten, 1998; Welter, 2011) – historical, temporal, institutional, spatial and social. These categories are evident across the comprehensive spectrum of literature over the past 50 years, for example, illustrating links between national, regional and institutional culture and entrepreneurial potential (Autio *et al.*, 2014; Mueller and Thomas, 2001; Shrivastava and Kennelly, 2013), entrepreneurial activity influenced by spatial conditions and local, social and economic milieu (Garofoli, 1994; Muñoz and Cohen, 2017), temporal interplay of context and action (Moroz and Hindle, 2011; Solymossy and Hisrich, 2000) or opportunity as conditioned by the entrepreneurs' interaction with their context (Gartner, 1985) and role in the social structure (Greenwood and Suddaby, 2006; Jack and Anderson, 2002).

Accepting that context matters to entrepreneurship because of interdependencies based upon interaction between the context and the entrepreneur (Welter *et al.*, 2016), we need to better understand how context is dealt with when supporting entrepreneurial competence development. Thus, it seems odd that relatively little attention is given to context when designing entrepreneurial pedagogy and teaching entrepreneurship (Neergaard and Christensen, 2017). In this paper, we take a more stringent look at the literature to investigate how context has been addressed in entrepreneurship education, emphasizing work which positions context as a central focus rather than a peripheral contingency. We emphasize a pedagogical perspective in our analysis and conceptual implications.

One could argue that in algebra, for a given problem there is a right equation and there is a right answer, such that while what is learned is not dependent on where you are or who you are, but how it is learned is contextually dependent. Using theory of socially situated activity, Lave (2009) states that "decontextualized learning activity is a contradiction in terms" (p. 231). Lave argues for the relevance of context elements when designing and delivering education. In regard to entrepreneurship education, both what is learned and how it is learned is contextually dependent. There is no ceteris paribus (all other things being equal) in entrepreneurship education due to the complex multitude of variables that equate to a high degree of context dependency. Entrepreneurship education relies on experience and storytelling, rather than structured proofs, formulas or equations. For this reason, entrepreneurship education needs a contextualized perspective. As the tools of how to be or become entrepreneurial are not complete, entrepreneurship education needs context which is scaffolded (Neergaard and Christensen, 2017; Williams Middleton and Donnellon, 2014). Accordingly, we need to pay attention to context-specific aspects, when we design entrepreneurship education. It can be argued that not only context does matter (Barab and Plucker, 2002), but also it is foundational to any learning which is intended to be situated in practice, as it weaves together a multitude of factors influencing the learning processes that takes place (Cope, 2005).

This is particularly important as entrepreneurship education has seen a significant increase in the past decades (Kuratko, 2003; Nabi *et al.*, 2017), with increasing attention on learning designed for gaining experience and preparing for practice (Lackéus *et al.*, 2016; Robinson *et al.*, 2016). Therefore, it would seem obvious that context constitutes a central theme for entrepreneurship education (and associated research). Yet, context as a variable has received scant specific attention in the entrepreneurship education literature, in comparison to the field in general (Welter, 2011; Welter *et al.*, 2016), even though Walter and Dohse (2012) suggest that different results in relation to the impact of entrepreneurship education can be explained by differences in mode and setting of education. Blenker *et al.* (2014) underline the importance of being explicit about context in research within entrepreneurship education because it will enable comparison of studies, qualify the field and guide applicability. These arguments suggest that that the impact of context necessitates a pedagogic innovation. A better understanding of context in entrepreneurship education allows for a shift from addressing context solely as a setting we adhere to include context treated as a dynamic space that can be designed with.

In this paper, we review the existing literature addressing context in entrepreneurship Entrepreneurship education in order develop a more clear and comprehensive understanding of context as an educational design parameter. Knowing what constitutes context will enable educators to design with context, rather than in a context or devoid of context. We argue that it is important to be conscious of and attentive to context in entrepreneurship education, as context imprints preconceptions on the actors in the educational design – namely, the educators, students and practitioners – and also influences opportunities. In order to design with context, we therefore need to ask the following research questions:

- RQ1. What constitutes context in entrepreneurship education?
- RQ2. How can entrepreneurship education be developed with context as a design parameter?

The paper proceeds as follows. First, to premise the literature review, we provide an overview of how entrepreneurship and entrepreneurship education literature have been reviewed previously. We then present the methodological approach utilized to review literature for the purpose of this paper, addressing context and entrepreneurship education (through different keyword pairings). Insights from the review are then presented and discussed, culminating in suggestions for how these may inform entrepreneurship education design (and practice). Implications highlight the need for a conceptual framework which is aimed to raise awareness of context in entrepreneurship education, design and practice. The investigation points to areas for future theoretical development in entrepreneurship education research with regard to context, and practical implications suggest ways in which educators may make informed choices when designing with context in entrepreneurship education.

Key issues from entrepreneurship education literature reviews

Entrepreneurship education has been the subject of review studies for over two decades, with the journal Education and Training in particular providing a main forum (see e.g. Blenker et al., 2014; Henry and Lewis, 2018; Matlay, 2006; Matlay and Carey, 2007; Mwasalwiba, 2010). Context or contextualization has often been raised as an influential variable during these review studies. Context in these reviews have included both human and non-human actors (Latour, 2005) constituting the who, what, where and when of entrepreneurship educational context, henceforward described as context elements. The context elements addressed in the reviews can be divided across three sociological phenomena levels: the macro level, which are national context elements; the meso level that are regional and university specific context elements: and finally the micro level, which are the course specific elements. The earliest review (Gorman et al., 1997) capturing the ten previous years stresses the need for further studies on educational content and markets for education. In relation to context, these reviews draw attention to expanding multiplicity, both in terms of expansion across different university (ex. meso) and country (ex. macro) settings (Matlay, 2006), disciplines (ex. meso) and educational objectives, methods, content and assessment practice (ex. micro) (Mwasalwiba, 2010). Blenker et al. (2014) address methodology issues, seeking an integrative framework to try and improve how entrepreneurship is researched, aiming for better generalizability across contexts, Henry and Lewis (2018) provide a systematic review of previous entrepreneurship education reviews, noting once again that there is still a lack of generalizability in entrepreneurship education research not only because of limited conceptualisation and small samples, but also because of the range of different contexts: geographic institutional and programmes (again exemplifying macro, meso and micro levels). Naia et al. (2014, 2015) further found that best practices could be identified for a specific context, but there is no evidence that these practices could be extended to provide a universal approach. Similarly, theoretical grounding was contingent to the study context. Overall, the reviews emphasize key issues of concern in terms of weaknesses in methodology and theorization that undermines generalizability.

It is perhaps surprising that no review has positioned context as the main variable towards understanding entrepreneurship education, or recognized context as a design parameter, given the established connection between student intentionality, policy and context, for example, argued for by Pittaway and Cope (2007). Yet 10 years later, Longva and Foss (2018) still found that impact studies are marred by weakly understood linkages to context. Reviews of entrepreneurship education literature thus unveil two main concerns regarding context. One is the limitation and generalization in research due to contextual differences between studies. The other is the lack of progress in understanding context in relation to entrepreneurship education, both theoretically and in practice.

Methodological approach

To answer *RQ1* a systematic literature review collects all the different current perspectives on context, which inform the construction of a holistic understanding of context. A systematic literature review approach provides a stringent and prescribed methodology that allows researchers to make sense of large bodies of information (Petticrew and Roberts, 2006). This approach enables not only an overview of the literature but addresses what works and what does not. In this paper, the literature review is used to identify the partial and arbitrary descriptions of context in the current body of literature to inform an overarching understanding of the phenomena, putting together the pieces of the puzzle. In line with previous relevant systematic literature reviews (Henry and Lewis, 2018; Mwasalwiba, 2010; Tranfield *et al.*, 2003), our design used a multiple keyword search to independently identify literature, followed by staged analysis to classify publications according to first general and then more specific criteria, while not excluding work based on methodological type.

A keyword search was conducted in the Scopus database in order to identify areas of overlap, as well as potential gaps in the literature, specifically peer-reviewed publications in books and journals. The keyword search utilized "Entrepreneurship Education" AND "Context", resulting in 239 articles, published between 1 January 1993 and 24 August 2017. The large majority (172 of 217) were published in 2010 or later. Seven publications from the initial search were excluded as they were not about higher education, published in a journal or book, or in English. This resulted in 232 remaining publications that were systematically reviewed by the authors of this paper. To capture initial key perspectives and current trends, a brief analysis of the 20 most cited publications as well as the 10 most recently published items was conducted (four articles published in 2017 and six articles published in 2016). This preliminary analysis informed the framework used for reviewing all the publications.

Two main filters were utilized to review the literature. First the literature was grouped into different classifications. Literature where context issues in entrepreneurship education were the central focus and relating to the aim of the piece were classified as "Main". Literature which has sections focusing on context issues in entrepreneurship education, but not having context as the dominant argument were classified as "Sectional". Literature with only minor or brief mention of context in entrepreneurship education was classified as "Minor". In total, 26 publications fell into the classification "Main focus" and thus were positioned as prioritized literature.

The second filter addressed the sociological phenomena levels – macro, meso and micro. These were also applied to the 26 "Main focus" publications in order to identify context elements. Macro represents national and international levels. Meso represents institutional (university) and regional levels. Micro represents individual and small group levels, as well as capturing more specific programme aspects.

In order to ensure a robust analysis, the remaining 206 publications ("Sectional" and "Minor") were analyzed for context elements using the same sociological phenomena levels. Three additional elements were identified, which are presented in the section Findings from

non-"Main focus" literature. Throughout the reviewing process, the authors discussed Entrepreneurship classification to ensure consistency. As an additional consistency check, 50 randomly selected publications from the entire 232 population were reviewed and compared by multiple authors. Across the 50 publications, the authors were found to be consistent with one another in classification and analysis of context elements.

To understand how the contributions of the publications were developed, each publication was identified as either conceptual or empirical, with empirical sub-divided according to use of qualitative, quantitative or mixed-based methodology. The implications of the conceptual or empirical base of the reviewed publications are presented in Tables I and II with associated discussions. The 26 publications representing the prioritized literature, categorized into sociological levels with associated context elements, are listed in Table III.

The prioritized literature was then evaluated using a theoretical framework inspired by previous research (Goodman and Whetten, 1998; Jack and Anderson, 2002; Welter, 2011) to distil into: content (what), agency (who), positional (where) and temporal (when) aspects of context. The framework builds upon Welter (2011) emphasis of using context from an omnibus rather than discrete perspective, such that context is a lens through which entrepreneurship is investigated, rather than considered as a discrete variable. This perspective considers that positional and temporal aspects operate on various levels. To address this, the theoretical framework also incorporated the sociological phenomena levels of macro, meso and micro with additional sub-level distinctions.

Findings from the literature review

When examining who is framing the discussion of context in entrepreneurship education, one journal in particular, Education and Training, is dominant. Given its position relative to review of entrepreneurship education literature, it is not surprising that Education and Training is the dominant forum of the published work (33 of the 232 published works) addressing context in entrepreneurship education. The next 12 journals each published between three and nine articles (see Table AI). Discussion about context in entrepreneurship education did not commence until 1993. In comparison, context in entrepreneurship in general has been debated in journals since 1970, illustrating the difference in the maturity of the fields.

In the following, the findings from the literature review based on the Scopus search on "Entrepreneurship Education" and "Context" are presented.

Context in entrepreneurship education

There has been a steep increase of interest in the topic of context in relation to entrepreneurship education during the last 10 years, which is evidenced by increasing number of publications on the topic shown in Figure 1.

Context has been researched as both a primary focus and as a sub-theme using various methodological approaches. Table I illustrates the methodological approach distribution of all 232 publications. In total, 85 of these were conceptually based, and 145 were empirically based. The remaining two publications were identified as wide-ranging books. The empirical publications therefore represent the majority of the publications, and these were essentially evenly distributed as quantitative (69) and qualitative (67). Nine of the empirical publications applied mixed methods. No preferred methodology for researching context in entrepreneurship education is therefore evident.

From the 232 publications, 26 were classified as "Main focus" and thus considered the prioritized literature for the review. The prioritized literature provides a more complex and nuanced picture of context in entrepreneurship education. Similar to Table I the publications were organized according to their methodological approach. In addition, they were also organized at the sociological phenomena level, either as addressing one level in particular or

several levels (ex. micro + meso). Table II illustrates the distribution of the prioritized literature in terms of methodological approach and sociological phenomena level.

There is no discernible pattern when analyzing the methodology distribution and sociological phenomena level of the prioritized literature. In total, 9 of the 26 publications are conceptual; 17 are empirical, where quantitative (9) publications are the most common, followed by qualitative (5) and mixed method (3). In total, 16 publications address multiple levels while 10 publications focus on a single level. Only two of the publications address the micro level exclusively (and without any publications specifically addressing micro level quantitative, or separately micro level qualitative), with meso-level publications similarly uncommon (again with no qualitative methodology). Table II also explicates that it is most common to address context across all three levels and that this is not limited to any particular methodological approach.

Context elements are most commonly described as fixed explanatory factors: "the setting" of the entrepreneurship education or research. Context from this perspective is something entrepreneurship education and research is located in, not something that can be designed

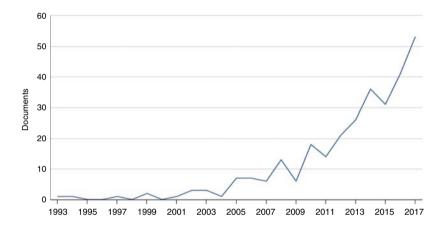


Figure 1. Number of publications by year

Table I.
Distribution of
publications based on
methodological
approach

Publication type	Quantity of publications
Conceptual	85
Empirical, quantitative	69
Empirical, qualitative	67
Empirical, mixed method	9
Wide-ranging books	2
Total	232

Table II.
Distribution of
prioritized
publications based on
context level and
methodological
approach

		Methodological approach				
Context leve	1	Conceptual	Quantitative	Qualitative	Mixed method	Total
Micro		1			1	2
Meso		2	1			3
Macro		3		2		5
Micro + Me	30	1	2		1	4
Meso + Mac	ro	1	2	1		4
Micro + Me	so + Macro	1	4	2	1	8
Total		9	9	5	3	26

with or in other ways utilized. While the literature states that context is important and Entrepreneurship influential in entrepreneurship education, context and context elements are either presented as documented items or using diffuse language which varies significantly between the publications, thus giving an arbitrary understanding of what context is. To gain a cohesive understanding of what constitutes context in entrepreneurship education, more examination is needed to understand the pieces relative to one another. The following sections therefore present context elements from the prioritized literature. In Table III, context is addressed specifically in relation to three sociological phenomena levels: macro, meso and micro.

Level	Context element	References
Macro	Continent Country	Chauhan and Das (2016) and Giacomin <i>et al.</i> (2011) Arokiasamy (2012), Balan-Vnuk <i>et al.</i> (2014), Blenker <i>et al.</i> (2008), Chauhan and Das (2016), García-Rodríguez <i>et al.</i> (2017), Garavan <i>et al.</i> (2010), Haddad <i>et al.</i> (2016), Johnson <i>et al.</i> (2006), Gerba (2012), Libombo
	Government policy	and Dinis (2015) and Mwasalwiba <i>et al.</i> (2014) Anderson and Zhang (2015), Arokiasamy (2012), Balan-Vnuk <i>et al.</i> (2014), Blenker <i>et al.</i> (2008), Garavan <i>et al.</i> (2010), Guerrero <i>et al.</i> (2014), Lee <i>et al.</i> (2006), Libombo and Dinis (2015) and Mwasalwiba <i>et al.</i> (2014)
	Economy	Anderson and Zhang (2015), Balan-Vnuk <i>et al.</i> (2014), Chauhan and Das (2016), Garavan <i>et al.</i> (2010), Giacomin <i>et al.</i> (2011) and Lee <i>et al.</i> (2006)
	Labour market National culture and norms	Balan-Vnuk <i>et al.</i> (2014), Lee <i>et al.</i> (2006) and Mwasalwiba <i>et al.</i> (2014) Anderson and Zhang (2015), Blenker <i>et al.</i> (2008), Chauhan and Das (2016), Garavan <i>et al.</i> (2010), García-Rodríguez <i>et al.</i> (2017), Giacomin <i>et al.</i> (2011) and Lee <i>et al.</i> (2006)
	Globalization	Arokiasamy (2012)
		Thestrup and Robinson (2016)
Meso	Regional effects	Anderson and Zhang (2015), Blenker <i>et al.</i> (2008), García-Rodríguez <i>et al.</i> (2017), Leitch <i>et al.</i> (2012), Mars and Ginter (2012), Mwasalwiba <i>et al.</i> (2014), Walter and Dohse (2012) and Walter <i>et al.</i> (2013)
	University	Anderson and Zhang (2015), Arokiasamy (2012), Blenker <i>et al.</i> (2008), Garavan <i>et al.</i> (2010), García-Rodríguez <i>et al.</i> (2017), Gerba (2012), Guerrero <i>et al.</i> (2014), Leitch <i>et al.</i> (2012), Mars and Ginter (2012),
	Discipline	Mwasalwiba et al. (2014), Walter et al. (2010) and Walter et al. (2013) Johnson et al. (2006), Maritz and Brown (2013), Neumeyer and Mckenna (2016) and Thestrup and Robinson (2016)
	Digital tools	Thestrup and Robinson (2016)
Micro	Pedagogy and didactics	Blenker et al. (2008), Chauhan and Das (2016), Fayolle and Toutain (2013), Garavan et al. (2010), Haddad et al. (2016), Johnson et al. (2006), Lee et al. (2006), Libombo and Dinis (2015), Maritz and Brown (2013), Neumeyer and McKenna (2016), Walter and Dohse (2012) and Xie and Wang (2014)
	Assessment	Maritz and Brown (2013)
	Students	Blenker et al. (2008), García-Rodríguez et al. (2017), Fayolle and Toutain (2013), Giacomin et al. (2011), Guerrero et al. (2014), Haddad et al. (2016), Lee et al. (2006), Leitch et al. (2012), Maritz and Brown (2013), Neumeyer and Mckenna (2016), Obrecht (2016), Walter et al. (2010) and Xie and Wang (2014)
	Educators	Garavan et al. (2010), Giacomin et al. (2011), Maritz and Brown (2013) and Libombo and Dinis (2015)
	Stakeholders and network Online setting Learning space	Libombo and Dinis (2015) and Neumeyer and McKenna (2016) Thestrup and Robinson (2016) Haddad <i>et al.</i> (2016)
	Content	Blenker <i>et al.</i> (2008), Fayolle, and Toutain (2013), Garavan <i>et al.</i> (2010), Gerba (2012), Johnson <i>et al.</i> (2006), Libombo and Dinis (2015), Maritz and Brown (2013) and Xie and Wang (2014)

Table III. Context elements arranged by level

Macro level

On the macro level, ten context elements are identified, as illustrated in Table III. Geography is often used to explain a contextual setting. For example, using data from Belgium, USA, China, India and Spain, Giacomin *et al.* (2011) find that there are common factors of motivation towards entrepreneurship, such as status, desire for independence and personal development, but that the entrepreneurial intention of students is influenced by their country/cultural background. Comparing political and economic perspectives from Europe, the Middle East, North America and India, Chauhan and Das (2016) investigate the entrepreneurship activity of the population and differentiating factors driving entrepreneurship education and training. Country setting is also widely used as an explanatory factor that implicitly or explicitly accounts for a number of other context elements such as: government policy, national economy, labour market conditions, national culture and norms.

Government policy is indeed an influential context element. Policy can promote entrepreneurship and entrepreneurship education through positive attention and resource allocation, or serve as a barrier through complicated legislation, rigid bureaucracy and underfunding. In their comparative study of the USA, Fiji, South Korea and China, Lee et al. (2006) discuss how government promotion is an important influencing factor on students' attitude towards entrepreneurship, while in Mozambique, underfunding was shown to be a main barrier to effective entrepreneurship education (Libombo and Dinis, 2015). Government policy is seen as influential through institutional economy (Guerrero et al., 2014), which can amplify or hinder entrepreneurship education, including preconditions. Similarly Anderson and Zhang (2015) illustrate the differences in attention to entrepreneurship education support based on embeddedness in a prioritized (or not) region within a socialist market economy. Mwasalwiba et al. (2014) investigate the role entrepreneurship education plays in the economic transition of Tanzania and the associated influence and effects of policy and labour market. Balan-Vnuk et al. (2014) advocate entrepreneurship education as critical in policy making in Sri Lanka for inspiring sole proprietorship and desire to promote self-sustained citizens. Garavan et al. (2010) emphasize government policy as one of five dimensions influencing entrepreneurship education in Ireland. Today this is a promoting factor, but in 1932 Ireland the policy of protectionism was not conductive to the emergence of new venture creation, and arguably resulted in the distortion of the economy.

National economic situation linked to policy is another context element discussed in the prioritized literature (Anderson and Zhang, 2015; Chauhan and Das, 2016; Giacomin *et al.*, 2011; Lee *et al.*, 2006). The setting of entrepreneurship education in developing countries can serve as both a barrier and a promoter for entrepreneurship and by extension entrepreneurship education. Funding can be difficult to obtain but a poor economy can serve as a motivational factor and catalyze necessity-driven entrepreneurship (Balan-Vnuk *et al.*, 2014), as a restricted financial situation is shown to increase student motivation and entrepreneurial intention, thus advocating entrepreneurship education policy at a national scale. Garavan *et al.* (2010) categorize economy as a second dimension that shapes entrepreneurship education by affecting national policy.

Labour market conditions seem to influence student's motivation for entrepreneurship, as high levels of unemployment can be a strong inspirational and motivational factor for entrepreneurship education. This associates to both economic and government policy themes. Lee *et al.* (2006) found that necessity increases entrepreneurial intent while ease of obtaining employment decreases entrepreneurial intent. This finding is echoed in Balan-Vnuk *et al.* (2014) and Mwasalwiba *et al.* (2014) where entrepreneurship education is argued to promote self-employment.

National culture and norms, while less tangible, emerge numerous times in the prioritized literature. National values and the social and cultural environment of countries are found to influence entrepreneurship education (Anderson and Zhang, 2015; Chauhan and Das, 2016;

García-Rodríguez et al., 2017). National culture is found to explain differences in Entrepreneurship entrepreneurial intention of students, even when common motivational factors (pursuit of profit/social status, desire for independence, creation, personal development and professional dissatisfaction) align across countries (Giacomin et al., 2011). Others discuss the importance of social acceptance in regards to entrepreneurial culture (Chauhan and Das, 2016; García-Rodríguez et al., 2017), as lack of social acceptance and low practical ability has a negative effect on students' attitudes towards entrepreneurship (Lee et al., 2006). Cultural dimensions, such as low power distance, weak uncertainty avoidance, masculinity and individual achievement, are seen to promote entrepreneurial action (Hofstede, 2001). Several pieces of literature illustrate overarching cultural differences shaping the whole educational system, including attitude towards entrepreneurship (Blenker et al., 2008; Garavan et al., 2010; García-Rodríguez et al., 2017: Gerba, 2012: Leitch et al., 2012). Blenker et al. (2008) contrast wage-earner culture to entrepreneurial culture and argue for the importance of institutional fit to intended culture development. And while Garayan et al. (2010) emphasize the agricultural traditions in rural Ireland impacting entrepreneurial attitudes, it is recognized that national culture may have diminishing significance due to emerging globalization.

Globalization and technical development trends are mentioned as macro-level context elements that influence entrepreneurship education. Arokiasamy (2012) investigates globalization trends as mediated through government policy, and Thestrup and Robinson (2016) showcase how advances in digitalization enable a new global connectivity and scaffolding methods transcending all levels of context.

Meso level

In total, 16 publications are found to include context elements on the meso level, further sub-divided into regional effects, university specific elements and disciplinary effects. Similar to the macro level, governance and economy are key themes at the meso level, but these are now positioned within the region and institution. Culture and norms are also confined to the institutional sphere at the meso level. Activities, actors and networks are found more prominently at the meso level.

Regional effects, such as innovative activities, regional economy, and, by extension, investment in research development and innovation, affect the entrepreneurial intention of the regional population. Walter and Dohse (2012) illustrate the degree of entrepreneurial activity within a region can affect entrepreneurial learning, but that this is dependent on the mode of education. Active modes of education are, irrespective of the regional context, positively related to self-employment intentions, whereas reflective modes of education raise self-employment intentions only in regions with a high degree of entrepreneurial activity. The positive effect on entrepreneurial learning happens between the individual and the local context, emphasizing the importance of embeddedness in active and innovative regions. Interstitial organizations, specially run units at community colleges connecting academics with private organizations such as incubators, are shown to play an important role in developing entrepreneurial capacity in the regional workforce (Mars and Ginter, 2012). Blenker et al. (2008) call attention to general institutional (university) strategy in relation to entrepreneurial activities in the regional environment and its importance for entrepreneurship education, thus positioning the university as a key contextual element in itself.

University-specific context is the most prominent element at the meso level and is influenced by elements also found at the macro level; namely, governance and economy. Government policy is a strong governing mechanism in terms of educational funding and objective. Universities in Malaysia benefit from government policy actively promoting entrepreneurship education spurred by the trend of globalization (Arokiasamy, 2012). Universities are similarly affected by the regional governance and institutional economy.

Guerrero et al. (2014) argued that entrepreneurial universities either have or are positioned to develop innovative pathways to reinforce entrepreneurship in their region; or alternatively suffer from lack of government support to prioritize resources to their region, given institutional rank (Anderson and Zhang, 2015). Additionally, university policy including institutional governance and leadership, organizational culture, strategy and purpose, and institutions' approaches to the commercialization of research and technology relating to the university and programme context (Garayan et al., 2010) are all influential context elements framing entrepreneurship education. Universities need to focus on entrepreneurship educational design, in order to stimulate self-employment post university (Mwasalwiba et al., 2014) as entrepreneurship education, entrepreneurship support programmes and industry ties are all found to have positive effect on student intention of self-employment (Walter et al., 2013). Blenker et al. (2008) found that university age, history, management, identity and norms are highly influential, as are networks with other universities and between faculties within the university itself, as these develop and promote entrepreneurship education and support student extracurricular activity, for example, via incubators.

Programme/disciplinary setting – like geography, disciplinary setting is often used as an explanatory setting. Culture and norms are not only set by the university, they can be further divided into discipline specific sub-cultures. García-Rodríguez *et al.* (2017) found that university environment inclusive of normative and cognitive development, directly influences students' attitudes, self-confidence and motivation, and through these can affect entrepreneurial intention (Blenker *et al.*, 2008). Garavan *et al.* (2010), Maritz and Brown (2013) and Johnson *et al.* (2006) all argue for a discipline-based framework for developing entrepreneurial competence, in terms of profession-, industry- or invention-based entrepreneurial ventures. For example, in a developmental economy such as Tanzania (Gerba, 2012), entrepreneurship education is mainly situated in certain disciplines, such as business and agriculture, but this is reflected in the trajectory of entrepreneurship education development in more established economies, such as the USA (Solomon, 2007). Current policy (Bacigalupo *et al.*, 2016) and research (Kuratko and Morris, 2018) argue for application of entrepreneurship to all disciplines, which, in turn, create a need for development of academic staff. This leads to the micro-level context elements.

Micro level

At the micro level, eight context elements are identified, with the primary unit of study being actors and interactions. Not surprisingly pedagogy and didactics are central themes in half of the publications. The purpose or objective of the entrepreneurship education spans from promoting new venture creation to stimulating enterprising behaviour in general (Blenker *et al.*, 2008; Maritz and Brown, 2013). Choice of objective greatly influences the applied pedagogy, didactics and content of any given course (Maritz and Brown, 2013; Neumeyer and McKenna, 2016). Applied pedagogy spans learning methods, models, approach and didactics (Blenker *et al.*, 2008; Chauhan and Das, 2016; Maritz and Brown, 2013; Walter and Dohse, 2012), and while more advanced means, such as experiential learning and reflexivity are advocated, they are also recognized as challenging to design and deliver, calling attention to issues of assessment (Maritz and Brown, 2013). Integrating these issues, Maritz and Brown (2013) argue for adapting Alberti *et al.*'s (2004) model to entrepreneurship education programmes in order to holistically assess the why (objectives), what (content), how (pedagogy) and for whom (audiences) in entrepreneurship education.

Because learning is socially situated (Lave, 2009) the actors involved in the learning process, the students, the educators, external stakeholders and social network, all carry significance. Student-related context elements are extensive, including nationality,

cultural heritage and professional profile (Giacomin et al., 2011), preferred learning style Entrepreneurship (Walter et al., 2010) and gender (Giacomin et al., 2011; Haddad et al., 2016; Maritz and Brown, 2013). Haddad et al. (2016) question the extent to which education accounts for gender stereotypes and how this is or could be counteracted, through entrepreneurial self-efficacy. Cultural heritage, gender and field of study all influence student entrepreneurial intention, disposition and sensitivity to motivation and perceived barriers for entrepreneurship (Giacomin et al., 2011), all of which feeds back to determining how to design entrepreneurship education to maximize learning outcome for the involved individuals.

Many context elements at the micro level originate outside the classroom but are carried into the classroom by the students (Obrecht, 2016). García-Rodríguez et al. (2017) found that the social context, including family, exerts a weak direct influence on the perceived attitudes or desire towards the option to start a business, and an indirect influence on entrepreneurial intention. For example, Xie and Wang (2014) emphasized individually based social and emotional aspects of learning contributing to educational objectives, and others highlight individual competence (Maritz and Brown, 2013) and social network (Walter et al., 2010) as capital that students bring into the entrepreneurial learning process. These context elements play a role in relation to entrepreneurship education and are found to affect entrepreneurial intent (García-Rodríguez et al., 2017), perception of entrepreneurial capacity (Haddad et al., 2016) and entrepreneurial action (Guerrero et al., 2014). The diversity of the student body (Maritz and Brown, 2013) also affects the outcome in an entrepreneurial learning process. Heterogeneity can spark creativity but also present itself as a barrier for collaboration. Taken together, these context elements make it difficult to generalize best practice without taking actor preferences and preconditions into account, and this can expand from an individual, to a team or interpersonal focus as well (Neumeyer and McKenna, 2016).

Not only are students important contextual carriers, but educators are as well. Maritz and Brown (2013) acknowledge an educator's knowledge, skill and attitude as influential to receipt of entrepreneurship education. Garavan et al. (2010) problematize educators' lack of experience while at the same time illustrates challenges faced when linked to both universities and businesses. In addition, Libombo and Dinis (2015) discuss challenges around pedagogic design and content and identify main barriers as lack of resources, qualified teachers and networks. Other external stakeholders, i.e. local business counsellors, entrepreneurs, funding agencies and potential customers are also included as influential actors in relation to entrepreneurship education (Neumeyer and McKenna, 2016).

The micro contextual setting is addressed as a learning space (Haddad et al., 2016) but it also includes online opportunities, such as educating through blended learning (Chauhan and Das, 2016; Haddad et al., 2016; Thestrup and Robinson, 2016). The final context element drawn from the literature at the micro level is content (of courses, syllabus/curriculum). Content is central in entrepreneurship education (Garavan et al., 2010; Johnson et al., 2006; Maritz and Brown, 2013) and is addressed by approximately one-third of the prioritized literature. Content is directly associated to the purpose of the education as it is the baseline provision to support the learning objectives, as exemplified in the Blenker et al. (2008) framework for developing entrepreneurship education.

Cross-level observations

Central themes across sociological phenomena levels include political and economic influences, geography, culture and development, activities, networks, actors and interactions. Transitioning from the macro to the micro level shifts focus from general policy to actors and interactions. Culture is a transcending theme across national culture at

the macro level, institutional culture at the meso level and individual culture at the micro level. A relatively new context element recognized on all levels is digitalization (Thestrup and Robinson, 2016).

Additional context elements from non-"Main focus" publications

Analysis of literature in all three classifications ("Main", "Sectional" and "Minor") presents a broad geographical spread, with 5 regions and 36 countries acting as "the setting" of the entrepreneurship education (see Table AII). To ensure that no context elements were missed, the analysis of the original 232 publications was revisited to scan for additional elements that were discussed in publications with "Sectional focus on context issues in entrepreneurship education" or "Brief mentioning of context in entrepreneurship education". Three additional elements were identified.

Relating to the micro level, pedagogy and setting, simulation and gaming (Newbery *et al.*, 2016; Pavlova and Chernobuk, 2016) were considered as the extension to scaffolding methods, enabling the educator to mediate entrepreneurial experience through a controlled process. Relating to focus in content and setting, Pittaway and Thorpe (2012) introduce temporal business phases – pre-start-up, start-up, growth, crisis and failure – to contextualization. Type of start-up is also presented as a contextual setting (Zhang, 2015), with family businesses positioned as having particular context elements as a type of start-up (Barrett, 2014; Rautamäki and Römer-Paakkanen, 2016).

Not adding new levels or elements, five publications complimented the discipline setting by elaborating upon which industry "one" is educated for and in such as public sector (Adcroft *et al.*, 2005), creative industries (Carey and Matlay, 2010), engineering (Thongpravati *et al.*, 2016) or music (Noyes and Deligiannidis, 2012).

Benefits and challenges with integrating context in entrepreneurship education

At all levels, context elements can either limit or enable entrepreneurial activities, entrepreneurial opportunities and motivation for becoming entrepreneurial (Welter, 2011), all essentially influencing the prerequisites for entrepreneurship education. Preconceptions of purpose, process and definitions are all shaped by context (Zahra *et al.*, 2014). Most educational designs are tailored by educators to move the students towards the educators' preconceptions, but if the gap between the preconceptions of the educator and his or her students is too large, it will be a very difficult task, and a challenging journey for the students to take (if they even are open to doing so) (Seikkula-Leino *et al.*, 2010; Williams Middleton and Donnellon, 2014).

In relation to limiting or enabling students in entrepreneurship educational processes, many context elements come into play. The students' background (Fayolle and Gailly, 2008; Walter *et al.*, 2010) can hold inspiration or necessity for entrepreneurial action, or on the contrary, cause reluctance to engage in entrepreneurial action. Both family (García-Rodríguez *et al.*, 2017) and cultural background (Giacomin *et al.*, 2011) can also have an influence on entrepreneurial intent. Moreover, social network (Walter *et al.*, 2010) can be essential in enabling entrepreneurship giving access to resources, but reference groups can also have a negative influence on entrepreneurial attitude if entrepreneurial action goes outside the social norms. In the course setting, the fit between student's preferred learning style (Walter and Dohse, 2012) and the pedagogy and didactics applied in the course is important in relation to the learning process. Furthermore in the professional profile of the education (Giacomin *et al.*, 2011) there can be an necessity for entrepreneurial action related to future employment, which can also be related to general labour market conditions (Lee *et al.*, 2006).

For educators many context elements influence the design process and the execution of Entrepreneurship entrepreneurial educational processes. However, far from all context elements are within the educator's span of control and some may even be difficult to predict. Indeed, contextualizing entrepreneurship education calls for an individualistic approach because there is no *ceteris* paribus in entrepreneurship education. At a programme and university level, resources allocated to individual courses, student number, scheduling flexibility and requirements for assessment (Maritz and Brown, 2013) can have a great influence on applied pedagogy and didactical design opportunities (Blenker et al., 2008; Chauhan and Das, 2016; Maritz and Brown, 2013; Walter and Dohse, 2012). University culture and traditions can either support or hinder entrepreneurial activities (Blenker et al., 2008). Similarly, regional effects can also have a supportive or limiting impact on entrepreneurship activities, as some regions provide strong support and resources for entrepreneurial activities enabling inclusion of various stakeholders (Neumeyer and McKenna, 2016), i.e. local business counsellors, entrepreneurs, funding agencies and potential customers; while others deprioritize one region or university for another (Anderson and Zhang, 2015). Finally, educator network, knowledge, skills and attitudes (Maritz and Brown, 2013) influence the educational process, and much like the students, the educator's background can either enable or limit the entrepreneurial education process.

Welter (2011) and Zahra et al. (2014) identify temporal settings as an important part of context. However, research in entrepreneurship, and additionally entrepreneurship education, has not fully accounted for the interdependency of temporal and other dimensions of context (Zahra et al., 2014), and the potential influence on context elements, such as policy and economies in transition (Libombo and Dinis, 2015; Mwasalwiba et al., 2014). As evidenced by this review, accounting for temporal settings while embedded in them continues to be a key challenge in entrepreneurship research, but the benefit of increasing awareness of this dimension may provide insight into trends and transitions experienced in relation to other context elements.

Discussion

Drawing from the findings of the literature review, we put forth four main assertions: context in entrepreneurship education is arbitrary; context in entrepreneurship education is both documented and diffuse; educators have a limited span of control in relation to context elements; a lack of *ceteris paribus* in entrepreneurship education.

Context is everywhere and no-where. There is no general framework for working with context in in entrepreneurship education, nor is there existing research that covers all levels and context elements simultaneously. Instead context in entrepreneurship education literature is currently scoped to the interest or expertise of the author(s). scoped by the frame or audience of the publication outlet, or limited by the explanatory ability of the empirics. To comprehensively cover context at all levels would demand large and coordinated efforts, with access to proprietary and/or sensitive information and may be outside current means. Our findings, consistent with previous research (e.g. Zahra et al., 2014), also find that context is inherently tensioned, which could limit the level of prescription a framework could provide.

Entrepreneurship education, including context elements, is increasingly documented and empirically investigated through multiple forms of policy, analysis, funding description, university and programme framing and accreditation and university network peer evaluation, applied pedagogy and didactics, content, etc. This is evidenced through the everincreasing publication of entrepreneurship education research, introduction of new entrepreneurship education conferences and journals, and government programmes, papers and reports. At the same time, entrepreneurship education research is still predominantly descriptive, building upon cases and storytelling (Johannisson, 2016) because of the complex matrix of variables that shape the learning experience, which, to be entrepreneurial, is fundamentally situated relative to uncertainty. There are even attempts to document the contextual influence of culture (Giacomin *et al.*, 2011; Lee *et al.*, 2006), but social interactions, personal heritage and preference are still diffuse, while at the same time highly influential context elements.

With the increasing complexity of education and the educator's span of control in relation to context elements is further limited. Developments of online learning, MOOCs, flipped classroom, etc. mean that the learning space is no longer confined and thus ability to control and stabilize influential variables is reduced (Lackéus and Williams Middleton, 2018). At the same time, there are often clear guidelines in terms of time, credit points, learning objectives, physical interactions, etc. that allow the educator to define and make decisions upon what and how is taught and with whom the students interact. This perhaps indicates a shift from an educator's responsibility of distributing knowledge and what to think, to educators as facilitators of tools to think with – tools that frame learning and sensemaking.

These insights lead to the conclusion that there is no real ceteris paribus in entrepreneurship education. Recognizing that context matters are accepting that everything else is not equal. The importance of context in entrepreneurship education is well established, but, as has been shown, context has rarely been the central focus but has rather been addressed as an influencing element, and thus context elements have not been systematically transferred into research addressing how educators can actively design with context in mind. As Welter et al. (2016) argue, a contextualized understanding questions our tendency for an "all-are-alike" approach. Thus, while context creates a generalization dilemma, we can generalize how we frame context through elements (Table III) and a conceptual framework (Table IV). If we approach context from two perspectives, as a lens (omnibus) and as a (discrete) variable (Welter, 2011), we argue that educators can make better educational designs by raising their contextual awareness, understanding of which context elements can be designed with or otherwise influenced proactively, and which context elements are those to which educational design must adhere. Educators therefore need to make sense of the "who, what, where and when" (Welter, 2011) of context to strengthen the student's learning process in entrepreneurship education. Next, we use findings from the literature review and identified context elements to present a conceptual framework.

Making sense of context in entrepreneurship education

To operationalize context in relation to entrepreneurship education, Table IV provides questions for educators interested in designing with context when developing their learning processes. Some context elements will be within the educator's span of control and can therefore be applied directly into the educational design and delivery. Other context elements are outside the span of control and may therefore constitute "framing factors" to which educators must adhere, adapt or slowly adjust over time. In either case, part of the educator's role in entrepreneurship education is as a mediator of context for the students in their learning process.

Table IV presents context elements at the macro, meso and micro levels, with additional level distinction stemming from the prominent themes identified through the literature analysis. The macro level is divided into a national and international level, as policy and economics associated to education are often governed through national and international guidelines. The meso level is constituted by the programme and university as institutional contexts and the local regional context. The micro level is the course level, the classroom. The questions asked at the different levels are relating to the context elements of who, what, where and when.

As Table IV suggests, working with "who" at all levels will help identify relevant stakeholders and gatekeepers. In the literature this is mostly discussed at the micro level, where students (Blenker *et al.*, 2008; García-Rodríguez *et al.*, 2017; Giacomin *et al.*, 2011;

Entrepreneurship education

onal	Who governs international entrepreneurial activity (ex. EU)? Who influences edu. policy, start-up/SME policy, etc.? Who are "the" entrepreneurs (rolemodels, heroes, etc.)?	What entrep. activities, competitions, resources are available intl.? How is engagement encouraged?	What orgs decide upon policy, funding, tax-revenue distribution, tax-structure, etc.? Is this industry specific, country specific, etc.?	Are there monthly/ yearly cycles of activities, deadlines (funding, events, etc.)?
International	Who governs international entrepreneuria (ex. EU)? Who influences edu start-up/SME) etc.? Who are entrepreneurs models, heroes	What entrep. 3 competitions, 1 are available ii is engagement encouraged?	What org policy, fi revenue tax-struc this indu	Are there month yearly cycles of activities, deadl (funding, events
Macro National	Who is active in the imnovation system and to which org. is their primary affiliation? Who influences educational policy, start-up/SME policy, etc.? Who are nationally recognized	What entrep, activities, competitions, resources are available nationally? How is engagement encouraged?	What orgs decide upon policy, funding, tax-revenue distribution, tax-structure, etc.? Is this industry specific, union or associations, etc.?	Are there monthly/ yearly cycles of activities, deadlines (funding, events, etc.)?
] Regional	Who is active in university ecosystem, regional innovation system and to which org. is their primary affiliation? Who influences regional edu, policy, start-up/SME policy, etc.?	What entrep, activities, competitions, resources are available regionally? How is engagement encouraged?	What orgs decide upon policy, funding, tax-revenue distribution, tax-structure, etc.? Are there reg, industries, specializations, etc.? traditions, etc.?	Are there monthly/ yearly cycles of activities, deadlines (funding, events, etc.)?
Local	Who are engaged in the local entrepreneurial ecosystem? Who is engaged in entrepreneurship promoting networks?	What entrep. activities, competitions, resources are available locally? How is engagement engagement	cnoordination of different univ. initiatives, local initiatives, etc.? Influence of norms, culture,	expectations: Are there monthly/yearly cycles of activities, deadlines (funding, events, etc.)?
Meso University	Who leads, governs, funds, etc.? Who has a vested interest? What human resources are available to the course participants (experts, extended network)?	What entrep. activities does the univ. host (conferences, events, fairs, student/faculty exchange, etc.)?	Where on campus is the education located? Access to resources? How does univ. incentivize entrepreneurship?	What are the time requirements? What are the reporting cycles? How long does it take to learn what is necessary? When are things made available?
] Programme	Who influences: admission, content, design, assessment, rules, etc.?	How does the education progress? Open or closed (ex. no electives)?	Where else does learning take place (ex. incubator)? Other learning interfaces (ex. online)?	What are the time requirements? What are reporting cycles? How long does it take to learn what is necessary?
Micro Classroom	Who is in the classroom? Who "controls" content? Who influences learning? What parts are teacher-student, pper-peer, practitioner to student (entrep.), etc.? What roles are thans?	What is the educational How does the content? Is it curricular, education extra-curricular, progress? Ope teacher-driven, student- or closed (ex. 1 driven; flipped, etc.? electives)?	What is the learning space? What are deliverables? Are there norms (imposed or created)?	What are the time requirements? What has been done before and how has that changed? Are there norms (imposed or created)? How long does it take to learn what is necessary?
	WHO (Actors (People))	WHAT (Content)	WHERE (Framing (Initiatives/ Rules/ Legislation))	WHEN (Temporal and historic setting)

Table IV.
Context levels and
elements in
entrepreneurship
education – questions
to consider in
educational design

Guerrero *et al.*, 2014; Haddad *et al.*, 2016; Lee *et al.*, 2006; Maritz and Brown, 2013; Walter *et al.*, 2010), educators (Maritz and Brown, 2013) and related stakeholders (Neumeyer and McKenna, 2016) are presented as key actors. Understanding the "who" can enable expedient networking, while also promoting awareness and understanding of the potentially complex mix of actors, with diverse cultural heritages, involved in an entrepreneurial learning process. Such an understanding may support successful interaction.

It may seem obvious, but the "what" simply concerns the capture and presentation of descriptive phenomena in relation to entrepreneurship education, at all levels. This facilitates understanding in regard to activities, content, resources and process, in order to guide actors involved in terms of what they can participate in and what they need to do.

Much of the literature identifies "where" as a setting and explanatory factor their research and findings. The "where" on the macro level is the country specific context (Blenker *et al.*, 2008; Garavan *et al.*, 2010; García-Rodríguez *et al.*, 2017; Gerba, 2012; Leitch *et al.*, 2012), that uses explanatory factors as political governance (Anderson and Zhang, 2015; Balan-Vnuk *et al.*, 2014; Blenker *et al.*, 2008; Guerrero *et al.*, 2014; Lee *et al.*, 2006; Mwasalwiba *et al.*, 2014), economy (Anderson and Zhang, 2015; Balan-Vnuk *et al.*, 2014; Blenker *et al.*, 2008; Guerrero *et al.*, 2014; Lee *et al.*, 2008; Gwasalwiba *et al.*, 2014) and culture (Anderson and Zhang, 2015; Blenker *et al.*, 2008; Chauhan and Das, 2016; Garavan *et al.*, 2010; García-Rodríguez *et al.*, 2017; Lee *et al.*, 2006) to describe the entrepreneurial environment. At the meso level the university setting is primarily described as an influential context element (Arokiasamy, 2012; Blenker *et al.*, 2008; García-Rodríguez *et al.*, 2017; Gerba, 2012; Guerrero *et al.*, 2014; Haddad *et al.*, 2016; Mars and Ginter, 2012; Walter and Dohse, 2012; Walter *et al.*, 2013). The "where" is most often described as a setting, providing frames that either hamper or promote entrepreneurship education and as something educators must navigate within.

Finally, the "when" of context is understood as the period in which the entrepreneurship education takes place, but also the frequency and longevity of the education. This dimension is not significantly described in the literature, but rather related to the political and economic themes in terms of, for example, the timeframe of a transitional economy (Lee *et al.*, 2006). However, it may be quite important in terms of deciding when we should teach whom what, as one size does not fit all (Blenker *et al.*, 2012).

Not all context elements may be relevant to consider for every educational design. Some elements can be proactively designed by the educator, while other elements are out of the span of control and must be considered as fixed framing elements that the educator reactively adheres to, with potential to perhaps change over time, depending upon institutional or other legitimizing support.

Conclusions and implications

In this paper, a systematic literature review was conducted to answer the question: "what constitutes context in entrepreneurship education?" Analysis found that context in entrepreneurship education can be described at multiple levels and be categorized in relation to multiple elements. As suggested in in Table III, context elements can be identified across three levels, macro, meso and micro. These findings align with previous research addressing context in entrepreneurship literature in general (Welter, 2011). More specifically, key themes were identified which prioritized context elements at the different levels, such as country/national description at the macro level, university at the meso level and student/student activities at the micro level. Given that context is a complex phenomenon, structuring the perspective through sociological phenomena levels and in relation to the "who, what, where and when" frame enables researchers and practitioners to better identify and address the constituting elements.

To address the *RQ2* context elements were framed with the categorization of content (what), agency (who), positional (where) and temporal (when) distilled from established frameworks (Goodman and Whetten, 1998; Jack and Anderson, 2002; Welter, 2011) and resulting in

Table IV. The framework provides educators with questions to guide the designing of Entrepreneurship education with context. While this framework illustrates ways in which context can influence or is influenced by entrepreneurship in an educational setting, not all elements will be relevant for every educational design, and it is yet to be empirically tested. Nonetheless, the analysis and resulting framework emphasizes the importance of consciously working with context elements in relation to educational design, providing options for proactive rather than reactive engagement. This enables educators and students to better become "pilots" (Sarasyathy and Dew, 2005) in their learning and entrepreneurial processes, such that they can better identify, understand and use the context elements from and in their educational setting.

The practical implication is a guideline for design of entrepreneurship education programmes and courses that take context elements into consideration. This includes awareness of applicability of certain context elements to education approaches. Some elements may align naturally with a "learning through" approach (Neck and Greene, 2011; Ollila and Williams-Middleton, 2011; Pittaway and Thorpe, 2012), just as "learning about" naturally limits contextual richness, but may be allows for macro level perspectives (what is entrepreneurship in economics, what is entrepreneurship in sociology and what impact do national and international markets have on entrepreneurship, historically and currently), etc. These may be definitional elements in "about", whereas they are more experiential elements in the "in" or "through".

Entrepreneurship education is a global phenomenon (see Table AII), recognized by governments practitioners alike for its importance in contributing to growth and value creation (Kaufmann, 2009). Entrepreneurship education is gaining increased scholarly attention (Nabi et al., 2017) and is still emerging in many regions, as exemplified by Figure 1. This signals the importance of introducing a framework for defining and working with context in entrepreneurship education, to support comparative analysis and continued research development.

A key aim of the paper has been to increase insight and awareness regarding potential knowledge gaps between the entrepreneurial experience, as addressed in general entrepreneurship literature, and the use of different types of education to inspire and prepare students for entrepreneurial practice, or to learn more about entrepreneurship. However, there are still several unanswered questions regarding context in entrepreneurship education, which need to be put on the entrepreneurship education research agenda: what are common means for designing with context? And to what extent are micro and meso context elements driven by macro level elements? As the current dialogue about context in entrepreneurship education was shown to be limited to predominantly one journal, a broader exposure would enrich the research in this field. Qualifying contextualization of entrepreneurship education in research enables a shift from arbitrary single case studies towards an understanding of how to generalize when taking context into account. This positions entrepreneurship educators as a key audience for this work, but there are additional practitioners to consider: university leaders, educators in other disciplines, collaboration partners or acting entrepreneurs that are engaged in the learning spaces.

We have aimed to call attention to the importance of context in entrepreneurship education. Table III provides a tool to decipher how context has been treated in entrepreneurship education theory and through the three levels of categorization making it more navigable. In extension, the benefits and challenges with integrating context in entrepreneurship education are addressed. With Table IV, educators are given a framework to make sense of their specific context. The framework provides a holistic view of context and educators are then left with the choice of which context elements are relevant for them to design with. Next steps include determining means to test and validate the framework. The "interactive" structure is intended to provide more descriptive rather than definitional framing. Over time, qualification and meta-analysis from the research community as well as practitioners in the field is required to gain and validate additional insights.

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Appendix 1

Journal	Number of articles
"Entrepreneurship Education" and "Context"	
Education and Training	33
Journal of Entrepreneurship Education	9
Entrepreneurship and Regional Development	7
International Journal of Management Education	7
Journal of Small Business and Enterprise Development	7
International Journal of Entrepreneurial Behaviour and Research	6
International Journal of Entrepreneurship and Small Business	5
Journal of Entrepreneurship in Emerging Economies	4
Journal of Business Venturing	3
Journal of Enterprising Communities	3
Small Business Economic	3
Technological Forecasting and Societal Change	3

Table AI.
Journals publishing context
entrepreneurship
education articles

Countries		Regions	
Albania	Korea	Europe	_
Australia	Malaysia	USA	_
Austria	Morocco	North America	
Austria	Nicaragua	Asia	
Bangladesh	North Ireland	Arab Countries	
Chile	Peru		
China	Poland		
Denmark	Portugal		
Egypt/Jordan/Oman/Tunesia	Romania		
Estonia	Singapore		
Ethiopia	South Africa		
Finland	Spain		
Germany	Sweden		
Greece	Turkey		
Holland	UK	Table AI	T.
India	Ukraine	Countries and region	
Ireland	United Arab Emirates	represented in the	
Japan	USA	literatur	

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Helle Neergaard is Professor of Entrepreneurship at Aarhus University in Denmark. She has 20 years of experience in researching and teaching entrepreneurship and is European Entrepreneurship Educator Laureate 2018. Her main research interests are in entrepreneurship education and gender studies and her research has been published in, e.g. Entrepreneurship Theory and Practice,

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Until July 2018, Lorraine Warren was Professor of Innovation and Entrepreneurship at Massey University in New Zealand. She has 25 years of educational development experience in entrepreneurship and innovation, at universities in the UK as well as New Zealand. She has also been an advisor in Pakistan, Russia and Romania. Her experience includes high technology, creative industries, social enterprise and indigenous enterprise. Her research interests reflect these areas, focusing on entrepreneurial identity and how entrepreneurs are represented in the media.