

Title: Entrepreneurship Education: Comparative study of initiatives of two partner universities

ABSTRACT

Purpose

The education of entrepreneurship is considered the most effective method to stimulate entrepreneurship within a society (Aaltio and Eskelinen, 2016); hence, creating jobs and encouraging economic growth (Lackéus, 2015). There are nevertheless structural difficulties in teaching entrepreneurship (Yang, 2016), and institutions are often left with the question: 'learning-by-doing-what?' This is particularly worrisome for partner universities who are supposed to collaborate to benefit the student.

Design/methodology/approach

This study examines which initiatives two partner universities have integrated regarding the concept of entrepreneurship education, and to what extent these initiatives are in accordance with the already established literature. The analysis of the results from the qualitative data gathered through interviews shows that both universities lack certain important aspects of entrepreneurship education in their current offerings.

Findings

It was found that University A seems to lack cohesion between the different faculties, has not integrated a global approach, has weak links with SMEs and social impact companies, and offers experiential-based learning mainly with in-class activities. University B, on the other hand, shows an improper use of terminology regarding the concept of entrepreneurship, lacks the collaboration with large corporations and social impact companies, and has a short-term approach for its programs as opposed to the more effective long-term approach. In addition, both universities fail to widely integrate entrepreneurship across the university.

Originality/value

Research shows that there is no generally accepted understanding of how universities should structure their entrepreneurial environment. This study aims at discovering and contrasting the current initiatives to stimulate entrepreneurship at university level by comparing two partner universities in the United Kingdom and The Netherlands.

Keywords: Entrepreneurial Education, Institutions, Qualitative Technique

1 Introduction

2

3 Entrepreneurship education is recognised as the single most important
4 method of fostering entrepreneurship, and thus job creation and economic
5 growth (Aaltio and Eskelinen, 2016). The integration of entrepreneurship
6 into education has gained significance over the last few decades.

7 Governments and educational institutions have acknowledged that
8 adopting the concept is likely to result in economic growth and job creation
9 for the former, and growing school involvement and reduced inequality for
10 the latter (Lackéus, 2015; Urban and Kujinga, 2017). Innovation and
11 entrepreneurship are described as the key drivers in the global economy,
12 opening new markets with the introduction of new products and
13 technological advancements (Karlsson, Grasjo, and Wixe, 2015).

14 With its first introduction in the United States in the 1940s,
15 entrepreneurship education has been widely accepted as a new drive for
16 economic growth and innovation (Zhou and Xu, 2012). The concept has
17 gained popularity ever since, and was in 1998 adapted by UNESCO
18 (1998:2) at the World Conference on Higher Education, arguing,
19 *“developing entrepreneurial skills and initiatives should become major*
20 *concerns of higher education”*. Ever since, the number of entrepreneurship
21 courses, students and academics have skyrocketed and the trend shows
22 no sign of abating. Miri (2014:1) calls it *“the revolution of the twenty-first*
23 *century”*, where governments encourage the next generation to adapt an
24 entrepreneurial mind-set to prosper in the rapidly changing world.

25 After research and teaching, entrepreneurship forms the core of the
26 upcoming ‘third mission’ at universities, described by Mitra and
27 Edmondson (2015:285) as, *“the delivery of community and economic*
28 *development activities that generate social and economic benefits”*.

29 Recognised as an essential part of higher education, entrepreneurship
30 programs are evolving quickly and an increasing number of universities are
31 incorporating courses on business planning, innovation and creativity, and
32 new venture development. Besides the development of key entrepreneurial
33 skills, universities have set up a range of initiatives for start-up support,
34 generally ranging from basic physical facilities, such as mentors and grants,

to a more advanced support infrastructure with business incubators and technology transfer offices (Mitra and Edmondson, 2015; OECD, 2009). At the same time, there are structural difficulties in teaching entrepreneurship (Yang, 2016). The message that can be drawn is that there is no generally accepted understanding of how universities should structure their entrepreneurial environment. With no clear guidelines on how to effectively stimulate entrepreneurship, universities are often granted the freedom to structure their own entrepreneurial environment, directly influencing start-up success (Information Resources Management Association, 2017). When relating this to two partner universities in the United Kingdom and The Netherlands, it could be mutual beneficial to streamline which entrepreneurial support initiatives have been implemented, and what can be improved upon. In fact, both countries are listed in the top-15 of the 2016 Global Entrepreneurship Index, indicating a similar favourable entrepreneurial climate (Acs, Szerb, and Autio, 2017). This paper aims at discovering and contrasting the current initiatives to stimulate entrepreneurship at university level by comparing two partner universities in the United Kingdom and The Netherlands. The scope of this paper is narrowed down to solely entrepreneurship initiatives at UK-based University A and Netherlands-based University B. Despite the numerous other variables that affect the entrepreneurial environment, such as subsidies and other resources from the public education sector, this research is limited to the universities' initiatives on promoting entrepreneurship.

The authors have identified the following research objectives:

- To identify the purpose of entrepreneurship education and to what extent it is considered important by academics.
- To investigate the approach to entrepreneurship education in order to benefit students.
- To analyse and contrast the entrepreneurial initiatives implemented at case study universities and to what extent it can be enhanced.

1 Literature Review

2

3 *The rise of Entrepreneurship Education*

4

5 French economist Jean-Baptiste Say first defined entrepreneurship in the
 6 1800s as, “*the entrepreneur shifts economic resources out of an area of*
 7 *lower and into an area of higher productivity and greater yield*”. Over the
 8 years, the entrepreneur has become immensely important and is perceived
 9 as the engine of global economic development by driving industrialisation,
 10 generating employment and decreasing income inequality (Lackéus, 2015).
 11 Despite the acknowledged impact of entrepreneurship on social and
 12 economic well-being, for a long time the general feeling was that
 13 entrepreneurs were born, not made (Hindle, 2012). Jones, Macpherson,
 14 and Jayawarna (2013) support this view, suggesting that entrepreneurs are
 15 born with certain characteristics, but that the intensification of certain skills
 16 through learning will help them become successful.

17 Raposo and Paço (2011) argue that entrepreneurship education is focused
 18 on stimulating entrepreneurship in terms of start-ups, whereas enterprise
 19 education is about developing enterprising people with an attitude of self-
 20 reliance. Kompf (2012) and Shockley (2009) further suggest that
 21 entrepreneurship and enterprise education should be separated, with the
 22 former being taught to individuals seeking to create a business, and the
 23 latter being delivered across the university.

24 From an economic and society perspective, the growing popularity in
 25 entrepreneurship education is mainly due to the potential for stimulating
 26 innovation and economic growth, and reducing unemployment (Kuratko
 27 and Hoskinson, 2017). Hence, the interest for embedding entrepreneurship
 28 education in engineering and social studies is growing significantly to
 29 develop an entrepreneurial mind-set among all levels of education (Aaltio
 30 and Eskelinen, 2016). Yet, Europe is found to lag behind the United States
 31 and Canada in entrepreneurial activity, and is therefore pressured to
 32 integrate entrepreneurship across all institutions to support the expansion

of entrepreneurship education at university level (Riviezzo, Nisco, and Napolitano, 2012).

Also, the demand for entrepreneurship courses is growing explosively. Academia is aspired to have a positive impact on economic development while Valerio, Parton, and Robb (2014), suggest that the interest in entrepreneurship is due to scholars' personality traits as high risk-takers and control-seekers. In response, universities are motivated to support entrepreneurial courses to not only improve their competitive advantage, but also to strengthen their alumni networks and enjoy widely acknowledged status and reputation (Fetters, Greene, and Rice, 2010; Sá and Kretz, 2015). This indicates that institutions act generally with their own interests' at heart.

The authors believe that the scope of entrepreneurship should not be limited, in order to prevent narrow-minded entrepreneurial approaches. This is considered true, as an international approach on entrepreneurship education is believed to further enhance students' skills to the extent that they understand different ways of doing business (Rae and Woodier-Harris, 2013). Not only is this necessary globally, but also within organizations. Since not all students will set up their own company, they can still utilize their entrepreneurial skills in different types of organizations.

Entrepreneurship Education at University level

Entrepreneurship programs have been implemented at different levels of the educational system, from primary school to university (Rahman, 2016). The exposure to entrepreneurship at an early age is more likely to result in entrepreneurial activity in a later stage in life (Rae and Wang, 2015). As written by Hosu and Iancu (2016), the role of higher education institutions is the most critical, as universities are influencing scholars to form start-ups and thus directly contributing to the economic development of a country. Especially, the influence of the institution's decision-makers is significant, as they contribute to student learning by means of strategy, mentoring and networking activities (Welsh, 2014). This focus is especially evident in the growing number of entrepreneurship centres at universities, providing a

range of services and programs that stimulate entrepreneurial activity and economic development (Kuratko and Hoskinson, 2017).

The impact of entrepreneurship education is nevertheless dependent on a country's cultural context, with an explicit role for religion and values, people's attitude, family and community influence, and government policies and politics (Ehiobuche and Madueke, 2017; Telman, 2012). The focus of this paper is on two partner universities in the United Kingdom and The Netherlands, thus we consider any literature related to entrepreneurship education at universities in those countries.

Entrepreneurship Education at UK Universities

Ever since the year 2000, when business and entrepreneurial development was listed as a strategic focus for UK Universities, the concept of entrepreneurship education has been recognised as a priority in universities. The government has however not implemented a national strategy to support entrepreneurship education, but has instead adopted multiple initiatives related to entrepreneurship education (Lackéus, 2015).

In fact, entrepreneurship programmes are mostly regulated on a regional or institutional level (EACEA, 2012). As a result, there is a wide diversity of initiatives to support entrepreneurship education at UK universities, ranging from guidance materials for teachers and entrepreneurship competitions for scholars, to online resources and web portals for case studies (Pantea, Diroescu, and Podlasek-Ziegler, 2014). The one characteristic that unites UK universities is the fact that they have the institution's best interests at heart, as opposed to the interests of teachers or students (Wright, 2007).

The UK is building on its reputation as one of the 'most entrepreneurial' countries in Europe (Myers, 2014). According to the Global Entrepreneurship Development Institute, only Switzerland, Sweden, Denmark and Iceland ranked higher in 2017. In comparison, in 2012 and 2013 the United Kingdom ranked 14th and ninth, respectively. This favourable environment for start-ups is generally created within universities and its nationwide expansion in the United Kingdom is due to benefits ranging from improved student employability skills, to their input to prevent

economic stagnation or decline both in the United Kingdom and worldwide (Papadopoulos, Burger, and Faria, 2016). The acknowledged impact that entrepreneurial students have on the economy has triggered universities to further expand their entrepreneurial program as well as extracurricular entrepreneur support activities (Nicolescu and Lloyd-Reason, 2016). Nevertheless, the entrepreneurial initiatives tend to be too theoretical, as opposed to practical implementation of ideas and solutions.

Entrepreneurship Education at Dutch Universities

In the last couple of years, the number of education institutions in The Netherlands that offer entrepreneurship programs in their educational environment has increased significantly (Bijaoui, 2015). Since 2000, the Dutch government has been stimulating educational programs on entrepreneurship (EACEA, 2012). Subsidy-related initiatives included the 2007 Education and Entrepreneurship Action Program and the 2009 Education Networks Enterprise, which aimed at increasing the number of institutions offerings entrepreneurial programs and encouraging scholars with an entrepreneurial mind-set to participate in these courses. Moreover, several programs were set out by the Dutch government in an effort to increase the number of scholars launching their own firm within five years from graduation (EACEA, 2012).

According to the Netherlands Enterprise Agency, the government is promoting this initiative for educational institutions to integrate an entrepreneurial culture by offering subsidies, without exerting control over the program design. However, the result of the high degree of autonomy is that entrepreneurship education is not structurally and consistently integrated in institution programs, but is rather demand-driven (EACEA, 2012). Despite the autonomous decision-making, the growing interest in entrepreneurship education has not stagnated, as universities are subsidised to setup programs together with local firms to put theoretical knowledge into practice.

Where the United Kingdom has adopted a strategy of integrating multiple initiatives related to entrepreneurship education, the Dutch government has

chosen for an action plan focused specifically on the integration on entrepreneurship programs (EACEA, 2012). However, both countries do not have a national strategy linked to entrepreneurship education, as opposed to Scandinavia and countries in the western Balkans (EACEA, 2016). The OECD (2009), nevertheless, created objectives for its member countries, including the United Kingdom and The Netherlands, to integrate entrepreneurship across institutions and partner with external business support centres and networks. This indicates that universities in both countries are encouraged to stimulate entrepreneurial initiatives, but still lack transparency and guidance in how to enhance current entrepreneurial offerings.

The Impact of Entrepreneurship Education

While the overall goal of entrepreneurship education programs is to teach the desirability as well as the practicality of entrepreneurship (Passiante and Romano, 2016), the extent to which it impacts one may be influenced by several variables such as culture, role models, individual characteristics and the educational environment (Hytti et al., 2016).

As stated before, entrepreneurship is widely recognised as a driver for economic growth and employment. Moreover, it is argued that the rise of entrepreneurship education is due to the globalised, uncertain and complex environment we live in, demanding entrepreneurial engagement from people and companies in order to survive (Fayolle and Redford, 2014). In addition to the influence entrepreneurship has on the economy, the effects are also evident on students' and workers' relevancy, involvement and encouragement in both education and at work (Baptista and Leitão, 2015).

Besides the economic benefits, the authors recognize a trend in entrepreneurship to encounter societal challenges. Ahmetoglu (2017) identified that entrepreneurship education is shifting to encounter societal challenges by focusing on value creation for the public good.

The promotion of the entrepreneurial mind-set contributes nevertheless to a broader scope in society. The positive impact of entrepreneurial programs on students' interest, joy, engagement and creativity is significant

(Morris and Liguori, 2016). This, in turn, has increased students' motivation and decreased student boredom and dropout rates (Reffstrup and Christiansen, 2017). Morris and Liguori (2016) believe that invention and students exceeding their own expectations generally trigger the above-stated personality traits. In particular, the bootstrapping approach of student companies is effective to balance creative thinking and practicability (Crittenden et al., 2015). In addition, Pittaway et al. (2015) argue that involvement in student societies on entrepreneurship have proven to enhance students' confidence and intentions to become entrepreneurs. Table 1 summarises the impact of entrepreneurship education on different levels of society.

	Students	Companies	Society	Sources
Economic growth	Entrepreneurship is vital for economic growth	Entrepreneurial workers are key in long-term growth	Innovation is important for economic progress	(Jockenhöfer, 2013; Pablos, Lee, and Zhao, 2010; Zhang and Stough, 2013)
Employment	Entrepreneurs are needed in today's globalised world	Companies need workers to support business growth	Economic growth creates more employment opportunities	(Bentz, 2016; Lussier, Corman, and Kimball, 2014; Seifert, Leleux, and Tucci, 2008)
Globalisation	Entrepreneurial mind-set is required to cope with fast-paced environment	Companies' global strategy creates new market structures	Open markets need entrepreneurial people to function at every level	(John and Ferris, 2017; Khanser, 2007)
Skills / Motivation	Autonomy and creativity results in motivation and joy	Workers' motivation is key for success of company	Economic growth is a result of business growth	(Ahlstrom and Bruton, 2009; Brunsell and Fleming, 2014; Oncioiu, 2013)
Social challenges	Students can contribute to society and make profits	Companies shift focus from profit-oriented to purpose-oriented	Social challenges are emphasised instead of economic challenges	(Ahmed, 2017; Fukukawa, 2014; Ziegler, 2011)

Table 1: Effects of Entrepreneurship Education on Different Levels of Society (compiled by the authors).

Methodology

In this study, the inductive approach is evident through the collection of qualitative data, a flexible approach and direct involvement from the researcher in the research process (Rose, Spinks, and Canhoto, 2014). The authors have used Given's (2008) and Swanson and Holton's (2005) suggestion that the approach is best used for small samples of

1 qualitative data as it takes into consideration the context where research
2 effort is focused. We have gathered qualitative data by means of in-person
3 semi-structured interviews, and therefore considered the inductive
4 approach the most appropriate.

5 The authors considered the use of a case study the most appropriate
6 strategy, as it allowed for identifying similarities and differences among the
7 entrepreneurial offerings and academic perspectives at both universities.

8 With the use of a case study an in-depth understanding of the role of the
9 universities in entrepreneurship was achieved, as the study focused on
10 'how' and 'why' questions (Yin, 2013). In addition, several other scholars
11 have used case study research in the past to perform an investigation on
12 entrepreneurship education at universities (Ghina, 2014; Kilasi, 2014;
13 Zande, 2012).

14 The research method selected for this paper is the qualitative approach,
15 because it focuses on conceptualisation, as opposed to the quantitative
16 approach that emphasises diagrams and statistics (Saunders, Lewis, and
17 Thornhill, 2009). As this research into entrepreneurship education at
18 partner universities is exploratory, the authors have selected a qualitative
19 technique in order to gather 'rich' data with small samples (Gratton and
20 Jones, 2010). The qualitative approach was evident in this research as it
21 concerned participants' personal views on and experiences with
22 entrepreneurship education.

23 The interviews ranged from 45 to 60 minutes in duration. Four interviews
24 were conducted with University B, and three interviews were conducted
25 with University A (please see table 2). All interviews were audio recorded
26 through the use of a recording application on a smartphone. This, in turn,
27 allowed the authors to give participants full attention during the interviews
28 and obtain a record of the entire interview that was used for transcribing.

29 The participants of the semi-structured interviews were chosen using a
30 non-probability sampling technique, aimed at selecting the interviewees
31 that are most able to deliver relevant and reliable information (Saunders,
32 Lewis, and Thornhill, 2009). Participants A, B, D, E and F were asked to
33 participate based on their lecturer's perspective, whereas participants C
34 and G were selected based on their coordinator's perspective. This allowed

- 1 for rich data collection as perspectives were from different faculties and
 2 functions in the universities.

University A		University B	
Participant A	Programme Director	Participant D	Lecturer Entrepreneurship
Participant B	Lecturer Entrepreneurial Business Management	Participant E	Lecturer Entrepreneurship
Participant C	Student Enterprise Manager	Participant F	Lecturer International Entrepreneurship
		Participant G	Entrepreneurship Education Manager

3 Table 2 – Identification of Research Participants.

4

5 As suggested by Aurini, Heath, and Howells (2016), coding is the main way
 6 to bring order to qualitative data as it helps retrieving and organising the
 7 data, and it speeds up the analysis. More specifically, template analysis
 8 has been used to code the transcribed interviews with particular themes.
 9 This involved identifying the key themes from each interview and
 10 comparing the answers of the participants. In addition, by using template
 11 analysis the authors were able to define relationships between themes in
 12 entrepreneurship education, which allowed a deeper, more comprehensive
 13 analysis (King and Brooks, 2016). The authors are not claiming that the
 14 findings of this research are generalizable. This is in line with Saunders,
 15 Lewis, and Thornhill (2009), who wrote that a study should focus on the
 16 situation, as long as there is no claim that the results, conclusions or theory
 17 can be generalised.

18 Findings and Discussion

19

20 The data gathered was thoroughly reviewed and coded using the template
 21 analysis approach to identify key themes. According to King (2002:256),
 22 “the method refers to a varied but related group of techniques for
 23 thematically organising and analysing textual data”. The method allowed
 24 the researchers to use a flexible approach that could be altered to the
 25 study and to analyse the perspectives of different people within the
 26 university context. Three main themes were identified through the analysis:
 27 the purpose and importance of entrepreneurship education, approaches to
 28 entrepreneurship education, cross case comparison of the entrepreneurial

1 initiatives between institution A and B. We discuss these themes in detail
2 below.

4 *The purpose and importance of entrepreneurship education*

6 The authors found that the participants of both universities consider the
7 purpose of entrepreneurship education to open up students for other
8 possibilities beyond 'being employed' and growing students' employability
9 skills. This was also found by Sethna, Jones, and Harrigan (2013).

10 Participant G was of the opinion that students should be ready to generate
11 work for themselves, while participant C believed that the next generation
12 is going to have a portfolio career, as opposed to one or two jobs, arguing,
13 "*one has to be prepared for the changing work environment by taking on*
14 *enterprising skills*" (Participant C). This clearly illustrates an understanding
15 with both universities towards the importance and purpose of
16 entrepreneurship education.

17 Also, each participant was asked about the best approach of teaching
18 entrepreneurship. In the before-mentioned nature-nurture debate on an
19 entrepreneurial mind-set, participants of both universities clearly position
20 themselves on the nurture side. Participant B emphasised that students
21 learn about entrepreneurship by doing it, whereas participant D argued that
22 students that come in with a non-entrepreneurial attitude discover more
23 about themselves and eventually 80% of this group concludes that they
24 can come up with something new.

25 The importance of entrepreneurship education was not limited to the
26 participants' perspectives. Instead, a widely accepted view on both
27 universities' decision-making level was that the development of an
28 entrepreneurial mind-set is crucial. This is important, as emphasised by
29 Welsh (2014), who argued that board members often contribute to student
30 learning with their mentoring and networking activities with students.

31 However, participants at University A pointed out that the institution does
32 not recognise entrepreneurship education as a top priority. Participant B
33 underlined that entrepreneurial programs generally lack the financial and
34 human resources to promote enterprise and start-up across University A.

1 In addition, participant C noted, *“I think we are a little bit slow to adopt that*
 2 *approach of entrepreneurship education over the whole institution”*.

3 In contrast, at University B, *“the focus is on getting students ready for*
 4 *business life”*, but, *“there is too less emphasis on the career perspective of*
 5 *self-employed”* (Participant G). The arguments of participants of both
 6 universities indicate that the institutional bodies do not fully recognise the
 7 importance of entrepreneurship education. This is worrisome, as
 8 suggested by Hosu and Iancu (2016), who argued that the role of higher
 9 education institutions is the most critical as universities are influencing
 10 scholars to form start-ups and thus directly contributing to the economic
 11 development of a country.

12 *“Enterprise education is not just thinking about those individuals who are*
 13 *planning on setting up a business, it is about creating an enterprising mind-*
 14 *set, which may lead to go down the road to set up a new business, but it*
 15 *will lead many to an organisation and being an intrapreneur”* (Participant C).

16 Participants D, F and G embraced the terminology of ‘entrepreneurship
 17 education’ and considered it as a combination of theory and practice.

18 Participant D defined the term in two layers. First, it has to facilitate
 19 students with an entrepreneurial attitude that they want to start up their
 20 own company. Second, it is about cooperation skills.

21 The literature suggests that a distinction between enterprise and
 22 entrepreneurship education is desired. This is evident at University A, as
 23 opposed to University B, and is supported by Kompf (2012), who argued
 24 that enterprise and entrepreneurship education should be separated, with
 25 the former being delivered across the university and the latter being taught
 26 to individuals seeking to create a business.

27 Participants A and B explained that the core focus of the initiatives at
 28 University A is on someone setting up a business and the integration of the
 29 entrepreneurial mind-set. Participant C criticised, *“universities tend to focus*
 30 *to create links with large employers, rather than necessarily the small and*
 31 *medium-sized sector”*. The literature already suggested that collaboration
 32 with SMEs is favourable for universities in terms of flexibility, the possibility
 33 for government funding and the opportunity to get into niche sectors such
 34 as technology and innovation (Fayolle and Redford, 2014). Participant A

- 1 furthermore noted that a “*social enterprise approach*” has been
 2 acknowledged, but, “*it is still an area that is not given due attention*”.

	University A	University B
<i>Importance of entrepreneurship education</i>	Enterprising skills required to be prepared for changing work environment	Students should be ready to generate work for themselves
<i>Best approach of entrepreneurship education</i>	Learn by doing	Show students that the unimaginable can be done
<i>Attitude of decision-makers</i>	Entrepreneurship not recognised as top priority, thus slow to adapt initiatives and lack financial and human resources	Too less emphasis on career perspective of self-employed, as the focus is on getting students ready for business life
<i>Terminology</i>	Enterprise and Entrepreneurship Education	Entrepreneurship Education
<i>Types of Entrepreneurship</i>	Focus on start-ups and large companies	Focus on start-ups and SMEs

3 Table 3 – Summary of The purpose and importance of entrepreneurship
 4 education

5
 6 Participants D, E and G stressed that programs at University B are focused
 7 on business start-ups and the adaptation of the entrepreneurial mind-set
 8 and attitude. As opposed to University A, close collaboration with SMEs
 9 was evident in University B. ‘Large Companies’, however, are not involved
 10 in the program. Participant D elaborated, “*we have not taken that step yet, where companies have an active voice in our curriculum*”. The importance
 11 of large companies is however significant in order to ensure a sustainable
 12 entrepreneurship ecosystem (Isenberg, 2013). Despite the increasing
 13 importance of social entrepreneurship, the participants at University B did
 14 not mention this concept, which suggests that there is no initiative in place
 15 that covers this area. The main findings in this theme are summarised in
 16 table 3.

19 *Approaches to entrepreneurship education*

20
 21 Although the participants at both universities acknowledged that
 22 entrepreneurial engagement from people and companies are needed in

1 order to survive in the demanding environment we nowadays live in, they
 2 have highlighted different approaches the universities take to expose
 3 students to this environment.

4 In terms of scope, University A has not embedded an international
 5 approach to entrepreneurship offerings. In fact, participants B and C
 6 suggested that it is not part of any program to gain experience in the
 7 business environment during studies. Participant A acknowledged that
 8 students should be given the opportunity to acquire the skills by going out
 9 and work in enterprises, but noted, *“probably the mass way of doing it*
 10 *would be to embed it in experiential learning, so that you give people the*
 11 *opportunity whilst they are on a program to practice those skills”*. In
 12 addition, participant C pointed out, *“I want students to be able to be*
 13 *resilient, to think creatively, to work in difficult, challenging environments”*,
 14 but also criticised, *“we only run extra-curricular activities, such as start-up*
 15 *weekends”*. This approach contradicts the secondary research, suggesting
 16 that a global consideration and experiential learning through internships
 17 and field experience is believed to be the best approach in equipping
 18 students with an entrepreneurial mind-set (Chan, Sipes, and Lee, 2017;
 19 Greene et al., 2015).

20 When the same question was asked to participants at University B, the
 21 authors identified that a global approach was evident in the ‘International
 22 Entrepreneurship’ modules and minors, as stressed by participants D, E
 23 and F. Participant D explained, *“students are at the heart of a selfish*
 24 *process, which is called entrepreneurship education. But in doing so, they*
 25 *have to be aware of the business environment, where you focus on*
 26 *different people and markets”*. Participant F pointed out, *“compared to*
 27 *other universities in The Netherlands, we are the only ones with an*
 28 *international approach”*. In this context, the university has a global
 29 approach through integrating mandatory work placements, exchange
 30 programmes and graduation assignments to be completed abroad. This
 31 illustrates that the suggested approach for entrepreneurship education is
 32 evident in University B.

33 Besides the general approach of entrepreneurship programs, the
 34 participants were also asked on the specific approach to trigger students’

1 interest, joy and creativity. University A is stimulating students' traits
 2 through student societies on entrepreneurship and enterprises (Participant
 3 B). Involvement in student societies on entrepreneurship have proven to
 4 result in increased confidence and student intentions to become
 5 entrepreneurs (Pittaway et al., 2015). As opposed to taking opportunities
 6 outside the curriculum, participants B and C argued that students are best
 7 triggered with the bootstrapping of a business idea, that is, starting up your
 8 own business for the bare minimum in terms of resources that you need to
 9 get started. The bootstrapping approach to balance creative thinking and
 10 practicability was also suggested as an effective practice-based approach
 11 by Crittenden et al. (2015). This is also in line with Morris and Liguori
 12 (2016), who argued that these personality traits are best triggered by
 13 invention and exceeding their own expectations,
 14 According to participants D, E and F, personal development is the key
 15 learning goal for students at University B, stimulating one to take initiative,
 16 think creatively and enjoy the process of setting up a business. Participants
 17 D, E and F emphasised the importance of freedom given to students to
 18 stimulate their entrepreneurial mind-set and generate new ideas. The
 19 authors noted that Gelderen and Masurel (2012) suggested that
 20 entrepreneurship education without a strong emphasis on autonomy is a
 21 waste for both students and society. The appreciation of freedom is often
 22 reflected in student feedback, frequently ranking entrepreneurship first in
 23 "most likeable course", and *"some even emphasised that this course made*
 24 *them stay at the university"* (Participant E). This is in line with the study
 25 carried out by Reffstrup and Christiansen (2017), who found that
 26 entrepreneurship education has increased students' motivation and
 27 decreased student boredom and dropout rates.
 28 *"We let students take a test on how entrepreneurial they are, because the*
 29 *question is often answered 'not really, not for me'. As they progress, you*
 30 *can see that they are actively involved"* (Participant D). Table 4
 31 summarises the main findings of this theme.

32
 33
 34

	University A	University B
<i>Global approach</i>	No	Yes
<i>Expose students to business environment</i>	Through extra-curricular activities	Mandatory part of curriculum
<i>Approach to stimulating students</i>	Bootstrapping of business idea and involvement of student societies	Let students take a test on how entrepreneurial they are
<i>Long-term / short-term</i>	Long-term approach	Short-term approach

1 Table 4 – Summary of main approaches to entrepreneurship education between
2 the two institutions
3

4 *Cross case comparison of the entrepreneurial initiatives between*
5 *institution A and B*
6

7 At University B start-up entrepreneurship is embedded in different levels of
8 the institution. Participants D, E and F are involved in short-term orientated
9 modules and minors where students generate, test, and pitch an idea for a
10 new product or service. However, as argued by participant D, *“students are*
11 *very careful with ideas implementation, because of the curriculum that*
12 *requires work placements and minors abroad”*. Participant G noted, *“it*
13 *discourages students having to liquidate their company after such short*
14 *period of time”*. This is also criticised by Manimala and Thomas (2017),
15 who suggested that entrepreneurial education should always have a long-
16 term focus instead of short term to allow student engagement and success
17 of the program. Participant E further described the business unit at
18 University B as an incubator where students with a market-tested and
19 feasible idea will get a coach and accessibility to financial and location
20 resources. Nevertheless, participant G argued, *“a lot do not do it, because*
21 *they want to focus on study instead of setting up a company”*, and
22 participant E confirmed, *“very few students have attempted to set up a*
23 *business”*. Despite the available programs for students that have a
24 business or business idea, participant G pointed out that there is no space
25 for entrepreneurship in every domain within the university. The lack of
26 integration across the university indicates that the gap between European
27 and North American countries in terms of entrepreneurship education is not
28 yet to be filled.

29 The authors remarked however that participants B and C mentioned
30 ‘employability’ as the main program goal of entrepreneurship education. On

1 the other hand, the aim of Dutch institutions is to increase the number of
 2 scholars adapting an entrepreneurial mind-set and launching their own
 3 venture within five years after completing their studies. Although, as
 4 suggested before by participant D, basically 80% of students are believed
 5 to have achieved the entrepreneurial mind-set, it is hard to measure and
 6 specific data is not available (Participant G).

7 As mentioned before, both universities are to a certain extent dependable
 8 on national frameworks imposed by the government and institution
 9 decision-making on entrepreneurial education, with the latter offering more
 10 flexibility. Feters, Greene, and Rice (2010) argued that universities are
 11 triggered to support entrepreneurial courses to improve their competitive
 12 advantage, strengthen their alumni networks and improve their status and
 13 reputation. However, this research has shown that participants at both
 14 universities are not completely satisfied with the university initiatives and
 15 have suggested improvements to develop the entrepreneurial programs.
 16 This is important, as academics play a key role in carrying out the
 17 university's entrepreneurial spirit (Feters, Greene, and Rice, 2010).

18 Participant A emphasised the importance of social entrepreneurship,
 19 particularly because the university is trying to be relevant to the
 20 communities in which it serves locally, nationally and globally. This is
 21 relevant, considering the increasing importance of social entrepreneurs.
 22 Additionally, participants A, B and C believed that all students should be
 23 exposed to experiential-based learning, especially because in business the
 24 resources are relatively cheap, as opposed to engineering for example.

25 Participant B suggested, *"the university should aim for a much more*
 26 *integrated approach of entrepreneurship that would achieve the same thing*
 27 *without having it separated out, and that it is perceived as an employment*
 28 *option rather than only starting up an own business"*. Also, participants B
 29 and C criticised the lack of cohesion of enterprise and entrepreneurship
 30 activities within the university, which is believed to be a result of the
 31 promotion of the research-focused agenda.

32 *"We are slow to adapt that approach of entrepreneurship education over*
 33 *the whole institutions, which is such a broad area that is fits everywhere"*
 34 (Participant C).

1 Participants B and C would rather create a dedicated space, which should
 2 be home for student start-ups and enterprise societies, and which hosts
 3 specialist programs, alumni networking events, guest speaker programs
 4 and competitions. Furthermore, participant C would like to see more
 5 collaboration with SMEs, especially in the field of digital tech, as the
 6 process of integrating in these companies is faster than in larger
 7 companies. Entrepreneurship centres provide support for the local
 8 ecosystem as well as benefitting from the programming and resources
 9 offered by off-campus entities (Kuratko and Hoskinson, 2017). It is
 10 considered the most common means by which universities provide a range
 11 of programs and services that improve entrepreneurship and economic
 12 development. Entrepreneurship courses are most effective if they were
 13 linked to a 'centre' that offers access to academics, support services and
 14 collaboration with local entrepreneurs (Morris, Kuratko, and Cornwall,
 15 2013).

16 Similar to University A, participants D and E would like to see
 17 entrepreneurship embedded in a learning line across University B to
 18 expose all students to the mind-set connected with the concept. Participant
 19 D furthermore argued that a closer cooperation is required with business
 20 units within the university, and companies and universities on a local and
 21 global scale to widen students' entrepreneurial awareness. Besides the
 22 wider reach of entrepreneurship education, University B should also strive
 23 for the integration of technical studies with entrepreneurship, according to
 24 participant G. *"I would like to see an environment where students can*
 25 *present their ideas and have the tools available to discover market demand*
 26 *and make prototypes"* (Participant G). This environment would serve as a
 27 workspace for students of different faculties to work on an idea, and to
 28 meet with companies to further develop their idea. The need for
 29 entrepreneurship education embedded in engineering studies has been
 30 addressed widely to develop an entrepreneurial mind-set among students
 31 and combining that with engineering thinking and skills (Aaltio and
 32 Eskelinen, 2016).

- 1 Where University A aims to be the heart of the Northeast, nationally and
 2 internationally, in the field of entrepreneurship education, University B does
 3 not have the ambition to become an incubator (Participant D, Participant G).
 4 The differences between the universities are provided in table 5.

	University A	University B
<i>Start-up environment</i>	Full-time curriculum on student companies. Also incubation facilities for offering mentoring and specialist advise	Modules and minors on entrepreneurship with idea generation and student companies. Also incubation facilities
<i>Integration</i>	Separate curriculum. Incubator for all current students and recent graduates up to five years.	Modules and minors not integrated across all curriculums. Incubation facilities for all current students.
<i>Program goal</i>	Employability of students	Increasing number of students with entrepreneurial mind-set and launching company within five years of graduation
<i>Desired initiatives</i>	Focus on social entrepreneurship and collaboration with SMEs. Expose all students to entrepreneurship, without separating it in a module. Create entrepreneurship centre.	Introduce entrepreneurship learning-line across university. Closer cooperation with business units within university, and companies and universities globally. Integration with engineering studies.
<i>Ambitions</i>	Leader in entrepreneurship education of Northeast	Not the ambition to become an incubator

5 Table 5 – Differences between the two Universities

6 Conclusions

7
 8 This study has investigated the differences in entrepreneurship education
 9 between two partner universities: University A and University B.
 10 It can be identified in the literature and the findings that entrepreneurship
 11 education is a multifaceted concept and that it is generally perceived as a
 12 method for teaching accumulated entrepreneurial activity. The case study
 13 universities have acknowledged that the purpose of entrepreneurship
 14 education is in accordance with established literature; to improve students'
 15 employability skills. The results of the research have proven that the
 16 concept of entrepreneurship education is considered highly important and
 17 should be exposed to all students in university. However, significant
 18 differences have been found between the universities in terms of
 19 terminology and types of entrepreneurship. As opposed to University B,
 20 University A used a distinction between entrepreneurship and enterprise
 21 education, indicating the importance of both developing an entrepreneurial
 22 mind-set and stimulating start-ups. Furthermore, the study has shown that

1 both universities lack the integration of certain types of organisations,
2 suggesting that the priority is not on entrepreneurship education.
3 From the findings it is also evident that the scope and approach on
4 entrepreneurship education is not in line with the literature. Nevertheless,
5 the extent to which it impacts students may be influenced by variables
6 including culture, role models and individual characteristics. It can be
7 concluded that University B wants students to gain entrepreneurial
8 experience through experience-based learning in an international
9 environment in the context of mandatory internships and exchange
10 programs. This is not apparent at University A, where experiential-based
11 learning in the business environment is not a mandatory part in the
12 entrepreneurial curriculums.

13 Our research has shown that participants at both universities believed
14 entrepreneurship education is about enhancing student's personality traits,
15 such as creativity, resilience and dedication. This is believed to match
16 entrepreneurial students' personality traits as high risk-takers and control-
17 seekers, as suggested by the literature.

18 From the literature it was found that there is a wide diversity of initiatives to
19 support entrepreneurship education in universities. This is evident at
20 University A, where outperforming other universities by means of offering
21 the most appealing environment is an important goal. University B, on the
22 other hand, has a more reserved role in entrepreneurship education
23 despite the autonomy given by the Dutch government. It can be concluded
24 from the research that the entrepreneurship initiatives implemented at
25 University A focuses more on employability skills of students, whereas
26 University B aims primarily at increasing the number of scholars adapting
27 the entrepreneurial mind-set.

28 Furthermore, University A recognised to a greater extent that scholars are
29 inspired to have a positive impact on economic development. Hence, the
30 start-up environment and ambitions of University A are more explicit than
31 the initiatives and desires at University B. The research furthermore
32 concluded that University A wanted to follow the trend of entrepreneurship
33 education shifting to encounter societal challenges, as opposed to
34 University B.

Future research can add more participants in the primary research which would have strengthened the data, allowing more views and experiences on entrepreneurship education at both universities. An extended research period in combination with the availability and efforts of participants, academics could have been requested from a wider range of faculties within both universities, allowing improved data collection. Furthermore, an increased number of participants could have resulted in the collection of quantitative data, too. Lastly, a thorough analysis of the external environment, including the influence of the government other stakeholders, would provide more insights in the 'why' behind certain initiatives.

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