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# ENTREPRENEURIAL PERCEPTIONS **OF STUDENTS REGARDING BUSINESS PROFESSIONAL CAREER:** THE STUDY ON GENDER **DIFFERENCES IN LATVIA**

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ABSTRACT. This study seeks to investigate the entrepreneurial perceptions among the students regarding their professional careers analyzing macro, micro and entrepreneurial education factors in Latvia, including the analysis of gender differences. The research is based on the analysis of data collected through a survey. The paper uses statistical analysis involving the measures of descriptive statistics (absolute and relative frequencies, means and respective standard deviations) and inferential statistics to examine the differences within an original dataset of 360 young people in Latvia. The results reveal several statistically significant gender differences. This research contributes to enriching literature and also adds value to studies on entrepreneurial perceptions divided by gender. Understanding the factors which shape entrepreneurship education, macrofactors and microfactors affecting young people's decisions and perceptions, education systems and public policies would allow adjusting and designing policies aiming to boost entrepreneurship education and enhance entrepreneurship as a career choice and balance it in a gender context.

Keywords: entrepreneurial education, entrepreneurial intentions, gender, professional career, Latvia

## Introduction

Globally, entrepreneurship comes as a key to promoting economic development and jobs creation (Audretsch & Thurik, 2004, 2010). In this context, institutions of higher education promote entrepreneurial education that has become a popular issue during the recent years. Several authors have pointed out the huge increase in entrepreneurship education programs (Kuratko, 2005; Matlay & Carey 2007; Penaluna, Penaluna & Jones, 2012), mostly during the last 50 years.

The multidisciplinary nature of entrepreneurial characteristics and personality in literature also means that the terminology is not well standardized, and the research dialogue does not easily lend itself to learning from past research and making incremental progress as a field. The sheer number of journals publishing research studies on entrepreneurial characteristics as well as large differences across them in terms of academic field and quality, also complicates the ability to have a linear, chronologically progressive research dialogue (Kerr et al., 2017).

Fiet (2014) suggested that entrepreneurial education is associated with career choice and personal skills. For example, research finds that entrepreneurial education is positively related to entrepreneurial attitudes and skills. Hattab (2014) argued that entrepreneurship education can develop entrepreneurial intentions through individual attitudes and cognition. Nevertheless, the research focuses on the impact of several other factors that Duffy et al. (2016) classified as macrofactors, such as economic circumstances and public policy, and microfactors, such as personal resources, which are thought to maintain individuals' ability to interact with the environment, take control over situations and play a significant role in changes in their careers.

This topic of choosing a career is particularly relevant in the case of students. According to (Rahmatiah et al., 2019), entrepreneurship patterns in business continuity as a career choice generally do not receive much attention. In particular, young students, when choosing their careers in entrepreneurship, face high uncertainty about what makes entrepreneurship possible (Rahmatiah et al., 2017).

The geography of this research is justified by the lack of such studies carried out in Eastern Europe in general and Latvia in particular. According to (Audretsch & Thurik, 2004, 2010), a better comprehension of country differences in entrepreneurship is important because entrepreneurship is widely believed to play a key role in economic development. Moreover, this research is especially essential for the countries experiencing systemic transformation from the centrally-planned to a market economy.

Vamvaka et al. (2020), Wilson et al. (2007), Gupta et al. (2009). Shinnar et al. (2012) and several other studies indicated that entrepreneurial intentions vary across genders and that despite the increased participation of females in businesses, higher self-efficacy and level of entrepreneurship education, there are still almost twice as many male entrepreneurs. Current researches reveal that gender has a much higher influence on entrepreneurial intention than age or field of studies (Voda et al., 2019).

The discussion and the results of this research allow finding statistically significant differences between female and male Latvian students' regarding their perceptions towards entrepreneurship as related both to micro and macro factors. The survey was built stemming from the research model developed by the authors based on theoretical literature. Summarizing the answers from the two groups researched, statistical significance in differences of answers' frequency to the same questions was tested. While some of the results confirm the conclusions of other researchers, several other outcomes contradict the findings of previous researches on the same topic.

The first part of the study discusses the theoretical aspects of entrepreneurial education, gender and professional career choices. The second part presents the research model, empirical study and also provides a discussion of the results along with the concluding remarks.

## 1. Literature review

#### 1.1. Entrepreneurial education and future career

Future career opportunities are a major challenge for students, and entrepreneurship can be considered an important choice. The transition from education to careers is seen as a serious challenge for many young people, especially those with low social capital (Blustein et al., 2017). This transition is likely to be more difficult for students facing various macro-level barriers, such as unemployment and others. Several theories and empirical studies have emphasized the importance of two main factors: macro-factors, such as the economic circumstances and public policy, and micro-factors, such as personal resources, which are thought to maintain individuals' ability to interact with their environment, take control of situations and play a significant role in changes in their careers (Duffy et al., 2016).

Atitsogbe et al. (2019) investigated the usefulness of the personal resources of career adaptability and self-efficacy to perceived employability and entrepreneurial intentions and also examined the relationship between perceived employability and entrepreneurial intention: the conclusion was that personal resources may represent a significant contribution to professional performance. Furthermore, Kasler et al. (2017) approved a significant and positive correlation between hope, grit and self-perceived employability. Neneh (2020) examined how entrepreneurial self-efficacy and self-perceived employability affect students' choice of an entrepreneurial career path. Entrepreneurship education must help students acquire entrepreneurial competencies such as autonomy, risk-taking, creativity, cooperation, and the ability to adapt to an uncertain and unpredictable future, but students need to acquire second-order competencies (or meta-competencies) (Toutain and Alain, 2017).

Rossier (2015) argued that career adaptability is an essential resource along with emotion regulation skills or self-efficacy explored using social cognitive career theory. Rudolph et al. (2017) referred that career adaptability is significantly related to a number of personality, career, and work-related factors, which can be divided into four categories, such as adaptivity, adapting response, adaptation result, and socio-demographic variables.

Savickas and Porfeli (2012) created a measure to assess career adaptability resources, namely Career Adapt-Abilities Scale. Lim et al. (2016), Lent et al. (2017) believe that self-efficacy is a mediator that influences career development outcomes: interest development, choice making, and performance achievement; the social cognitive model of career self-management emphasized the importance of personal resources such as self-efficacy in a number of career outcomes. Recently, Vamvaka et al. (2020) suggested that career patterns vary across genders and that despite the increased participation of women in the enterprise sector, there are still almost twice as many male entrepreneurs.

According to several contributions, self-efficacy plays a significant role in the entrepreneurial behavior (Bandura, 1977). Expectations of personal efficacy derive from four main sources: performance accomplishments (empowerment), vicarious experience (vicarious learning, influence of role models), verbal persuasion (influence of the coach), and emotive sources (expression of a positive /negative emotional feedback, emotional stimulation). Sinapi et al. (2015) assume that business creation tools and entrepreneurial mindset result, among various perspectives, in the development of perceived self-efficacy regarding the ability to

conduct an entrepreneurial project. Some authors underline that most of entrepreneurship studies present comparative analysis of factors regarding students' intentions to perform an entrepreneurial activity (Iakovleva et al., 2011)

In a regional context, several researchers suggest that students from developing (in transition countries) economies are more likely to relate their future careers to entrepreneurship and are more positive towards entrepreneurship than students from industrialized European countries, even though motivators for employment/self-employment are similar across the samples (Davey et al., 2011).

#### 1.2. Theoretical models of entrepreneurship education

Theoretical models that have dominated understanding and possibly predicting entrepreneurship in recent decades are intention-based models of entrepreneurial behavior (Baumol, 1993; Gaglio & Katz, 2001) led by Ajzen (Ajzen, 1985; Ajzen, 1991). Theory of Planned Behavior is a dominating model for understanding, predicting, and changing individual social behavior (Ajzen, 2011). This theory considers entrepreneurship as a planned, volitionally controlled behavior that is inherently intentional rather than instinctive, in which individuals develop entrepreneurial intentions over time before initiating actions to create a new venture and making the entry decision. (Vamvaka et al., 2020)

The Theory of Planned Behavior consists of the following dimensions (Ajzen, 1987): attitude toward the behavior (ATB), subjective norms (SN), and perceived behavioral control (PBC):

- 1. Attitudes towards behavior is a reflection of the individual's appraisal of the behavior. It indicates the degree of how favorably or unfavorably an individual evaluates a specific behavior, and it explains the half of variance in intentions.
- 2. Subjective norms portray the degree of social components (family, friends, femininity and masculinity, peers and society in general) that expect or pressure the individual to become an entrepreneur.
- 3. Perceived behavior control or self-efficacy is related to the level at which an individual feels able to behave in an entrepreneurial manner. It has a direct effect on behavior, as individuals can balance possible constraints with their actual control of overcoming those constraints (Ajzen, 1987).

Regarding the intentions to become an entrepreneur, the recent literature review allows an aggregation of studies related to the categories of Theory of Planned Behavior and identify important constructs to consider in empirical studies to assess entrepreneurial perceptions (Carvalho et al., 2015). Table 1 provides a synthesis of the Theory of Planned Behavior and Entrepreneurial Perceptions.

Perceptions about entrepreneurship can be assessed through entrepreneurship education. Keller and Kozlinska (2019) proposed a systematic literature review on entrepreneurial affect and emotions, their importance in entrepreneurship education, and created a framework.

Cheung (2008) suggested that the sooner values and entrepreneurial thinking in young people are stimulated, the more effective the results will be. The task of entrepreneurship education is to foster students' abilities, such as the capacity to recognize opportunities, as well as knowledge, skills and attitudes to develop these opportunities (Jones and English, 2004). While some personality traits are fixed, Rauch (2014) investigated how self-efficacy and achievement motivation can be influenced with relatively simple entrepreneurship education methods when personality traits are defined. However, there is an opinion that mostly entrepreneurship education focuses on helping students to understand the phenomenon and doesn't prepare them for entrepreneurial activities (Pittaway and Edwards, 2012).

Attitudes towards behavior	Subjective norms	Perceived behavior control
Perception of barriers: Entry or start-	Culture: Country	Entrepreneurial disposition: Self-efficacy
up barriers, including lack of	individualism/collectivism,	Perception of motives: Individual belief,
knowledge, start-up capital	power distance,	confidence in the belief, intention to act
Barriers: Too risky activities, lack of	uncertainty avoidance,	Motives: Opportunity to implement ideas,
entrepreneurial abilities, unfavorable	Gender characteristics:	creating something new, personal
economic situation, fear of failure,	femininity/masculinity	independence, ambition to become a
irregular income, lack of	Relational support: Family	manager, financial independence,
management and accountancy skills	background, friends'	improvement of life quality, creation of
Desirability: Attractiveness for the	support	work places, managing the staff, more
person to create a new business	Institutional environment:	leisure time, opportunity to earn money,
Individual-level entrepreneurial	Perception of feasibility,	acquiring of a higher social status,
intention: Access to know-how,	the factors that influence	difficulties finding the most suitable job,
access to know-who, access to	and make entrepreneurship	family traditions
material support, need for	more difficult,	Personality traits: Self-efficacy,
achievement, need for independence,	entrepreneur's image	proactivity, risk taking
risk-taking propensity, work		Feasibility: perception regarding one's
experience, opportunity perception		own capacity to become an entrepreneur

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Table I	Inmen	sions o	i ine	ineorv	$\alpha$	niannea	penavior.	ana	entre	preneurial	nercei	nnons
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Source: Carvalho et al., (2015), adapted

Kerr et al. (2017) developed a research on personality traits and created a classification of personality characteristics named the Big Five: need for achievement (motivation), locus of control, self-efficacy/proactivity, innovativeness, stress/uncertainty tolerance and need for autonomy. The Big Five model is a multidimensional approach towards defining personality through measuring openness, conscientiousness, extraversion, agreeableness, and neuroticism created by Tupes and Christal (1961, 1992) and Norman (1963). Since the 1980s, it has been considered as the dominant model of personality traits, and it was found that the Big Five traits affect entrepreneurs' career choice (Rauch, 2014). The Big Five model dimensions are:

• Openness to experience: describes the breadth, depth, originality, and complexity of an individual's mental and experimental life

• Conscientiousness: describes socially prescribed impulse control that facilitates taskand goal-orientated behavior

• Extraversion: implies an energetic approach towards the social and material world and includes traits such as sociability, activity, assertiveness, and positive emotionality

• Agreeableness: contrasts a prosocial and communal orientation toward others with antagonism, and includes traits such as altruism, tender-mindedness, trust, and modesty

• Neuroticism: contrasts emotional stability and even-temperedness with negative emotionality, such as feeling anxious, nervous, sad, and tense.

Entrepreneurs may need success because building a business from scratch shows a person's individual abilities in ways that are often difficult to reconcile when working in a system where responsibilities are spread. A person with an internal locus of control understands that their own decisions control their lives, while people with an external locus of control believe that the real factors of control are chance, fate, or environmental traits that they cannot control. Individuals with an internal control locus believe that they can influence outcomes through their ability, effort, or skill, rather than the external forces that control those outcomes (Kerr et al., 2017).

Entrepreneurial self-efficacy is defined as a composite of self-efficacy towards five tasks: innovation, risk-taking, marketing, management and financial control. When surveying students in three business study programs, it was found that entrepreneurship students have a higher entrepreneurial self-efficacy average in marketing, management and financial control

than did organizational psychology and management students (Chen et al., 1998; Chatterji et al., 2014; Yen and Lin, 2020).

Åstebro et al. (2014) summarize the utility model of standard expected risk selection and define how entrepreneurs are distinguished from others by their willingness to perceive and act as much as possible, despite uncertainty and risk.

In addition to the personal characteristics of what makes an individual an entrepreneur, there are other important factors that motivate students to establish a new business. Personality characteristics correlate with each other, while also impacted and shaped by environmental forces. Researchers in all disciplines frequently describe how personality factors such as gender and education interact with or are moderated by other individual traits and external conditions (e.g., industry dynamics, city traits) (Kerr et al., 2017). Attributes of the environment, such as perception of the State or political and legislative climate in which the young person finds him or herself immersed, are vitally important (Díez-Echavarría et al., 2020).

Entrepreneurs tend to be optimistic and overconfident, and at the same time, these traits may be deleterious for entrepreneurial performance (Bengtsson & Ekeblom, 2014). Hurst and Pugsley (2016) divided the original motivations into categories: non-pecuniary reasons, to generate income, to accomplish a good business idea, lack of employment options, and others. The majority of small businesses do not intend to innovate or expand their operations, and non-pecuniary motivations are the most frequent driver of new venture creation. Eyel et al. (2020) believe the individual values about obtaining the achievement and power are influential on all entrepreneurial tendency factors.

The external environment, particularly the regional geography, is another issue studied. Some researches point out this geographic comparison, such as the differences in the promotion of sustainability and the development of a sustainable mindset of students, and differences between sustainable mindset of students from Central and Eastern Europe (Ploum et al., 2018; Fox et al., 2019, Çera et al., 2019; Adomssen et al., 2014). Despite a number of comparative studies of European regions, such as an empirical comparative study of universities in Northern and Southern Europe (Markuerkiaga et al., 2016; Eizaguirre et al., 2020; Keller, 2017), many authors emphasize that more researches from different regions of Europe are needed (Adomssen et al., 2014), in particular in Eastern European countries.

## 1.3. Entrepreneurship education and gender

One of the entrepreneurship research areas in this research is that of gender differences in entrepreneurial perceptions. Concerning the gender, some studies suggested that there is a perception of entrepreneurship as something more suited for males who are widely perceived as being more predisposed to engage in entrepreneurial activity than women and possessing qualities or characteristics such as independence, aggressiveness, autonomy and courage, typically considered essential for entrepreneurship (Shirokova et al., 2016; Vamvaka et al., 2020).

Wilson et al. (2007), Gupta et al. (2009), Shinnar et al. (2012) and various other researches based on the Hofstede's Cultural Dimensions Theory (Hofstede, 1998) have proved that career patterns vary from country to country for different genders, that, despite the growing participation of females in the business, there are still fewer female than male entrepreneurs, and that males have a more positive attitude towards entrepreneurship and higher entrepreneurial intentions. It seems that business is associated with male gender stereotypes, however Liñán and Fayolle (2015) believe the level of female self-efficacy is higher and the impact of entrepreneurship education on entrepreneurial intentions is stronger. On the other hand, other studies confirm that males exhibit a more positive attitude towards

entrepreneurship and a greater intention of starting a business (Roxas et al., 2008). Camelo-Ordaz et al. (2016) designed the research with the main purpose of analyzing the influence of perceptual factors – entrepreneurial self-efficacy, the ability to recognize opportunities, and fear of failure – on the relationship between gender and entrepreneurial intention and found out that the fear of failure is one the most important obstacle perceived by female students for starting a business. These findings follow a line of previous research that has highlighted the importance of business self-efficacy in explaining higher entrepreneurial intentions among males.

Haus et al. (2013) concluded that females transform their entrepreneurial intentions into action less frequently than males due to the fact that females tend to perceive various obstacles to entrepreneurship that are more tangible. In 2019, The Global Entrepreneurship Monitor (GEM) examined entrepreneurial activity in 50 countries. The results indicate that, although globally the female to male entrepreneurship rate has increased in recent years, the number of female entrepreneurs is generally much lower than the number of male entrepreneurs (GEM, 2020). Moreover, OECD research has found that in the EU an average of 9.9% working females are self-employed, while the respective number of males is 17.5%. Moreover, self-employed females are less likely than males to have employees and tend to work on average more hours per week (OECD, 2017).

The analysis conducted by Voda et al. (2019) revealed that gender also had a positive and significant effect, indicating that females are less active in the process of launching startups; at the same time, age and faculty type do not influence significantly the entrepreneurial intention. This means that gender has a much higher effect on entrepreneurial intention than age and faculty type.

On the other hand, several studies show that females need financial management knowledge more than males (Al-Bahrani et al., 2020). They are less exposed to risk and avoid borrowing, equity crowdfunding and raising angel or venture capital, which doesn't allow them to start a business (Malaga et al., 2019).

Contemporary research confirms that in the digital age, females are not strong in ICT and related industries, launching fintech start-ups, despite years of education in ICT and related subjects at the universities. The use of ICT and STEM, especially in start-ups, means educating females as technology professionals and entrepreneurs in a world of growing demand for ICT applications and services is very important (Ashcraft et al., 2016; Kamberidou & Pascall, 2019; Kamberidou, 2020). Other researchers also emphasize the importance of using information and communications technology in new ventures nowadays (Bandera et al., 2018).

Gender differences in entrepreneurship and characteristics of female entrepreneurs in Latvia have not been fully studied, only a few studies on female executives have emerged in recent years (Dzene & Sennikova, 2020).

## 1.3. Latvia in a context of Eastern European entrepreneurship

A better comprehension about the country differences in entrepreneurship is important because entrepreneurship is widely believed to play a key role in economic development (Audretsch and Thurik, 2004, 2010). This analysis is especially important in the countries experiencing systemic transformation from the centrally-planned to a market economy system. Latvia fell under Soviet domination, which lasted until 1990. This implied that for almost 50 years private business ownership was banned or scarcely tolerated as a marginal, and economy was dominating by state-owned sector. In this context, entrepreneurship is an emergent topic just exploited after the end of the communist regime. Zinovyev (1986) mentioned the "homo sovieticus" mindset developed by several generations of population living under communism, that could reflect the lack of individual initiative, overreliance on the state, and passive, obedient acceptance of the rules imposed by the government authorities. Therefore, it is important to understand whether the new generations still possess some limitations in respect to the entrepreneurial mindset.

Moreover, Eastern European countries reveal differences, and some countries are more studied than others. Latvia is one of the understudied countries in this European region.

The case of Latvian entrepreneurship is worth attention and research. There are several reasons for that. From year to year, according to Global Entrepreneurship Monitor adult population studies, Latvia ranks first or one of the first in terms of entrepreneurial activity. In 2019, Latvia had (GEM, 2019) the highest Total early-stage Entrepreneurial Activity (TEA) rate and the 2nd highest Established Business Ownership (EBO) rate among the EU countries that were included in the sample. The numbers were 15.4% and 12.9% in adult (18-64) population respectively. In the same study, Latvia ranks first in TEA rate for females, scoring 11.3% of all adult females.

Moreover, Latvia also has the highest entrepreneurial activity TEA indicator (20%) among the researched EU countries in the age group of 18-24 (GEM, 2019). But it is unclear whether this high number is related to entrepreneurship education practices in the country or to some other reasons. To make things more complicated and to provide even more room for studies, it should be noted that in the same GEM survey Latvia has the most pessimistic answers to the question whether "There are good opportunities to start a new business in my area"- only 35.6% (GEM, 2019) of adults answered positively to this question, which is the lowest number among the EU countries researched.

There has been some research devoted to business education in general and entrepreneurship education in particular, and scientific literature includes sources originating from Latvia. Nikitina and Lapina (2019) found out that very high intensity of establishing small and medium-sized enterprises (SMEs) in Latvia takes place because various measures for the establishment and support of micro-enterprises have been implemented. The same authors identified that the skills acquired by managers were mostly experience-based competencies that dominate over the rest. Salite (2015) analyzed recent trends affecting the development and management of entrepreneurship education, as well as the impact of European Union policies on the transformation of entrepreneurship education and emphasized the need to reorient education towards sustainability.

At the same time, studies underline considerably declining activity in starting entrepreneurship, as well as students' entrepreneurial intentions to set up their own business and to associate their future careers with entrepreneurship. Bikse, Lusena-Ezera and Rivza (2016) analyzed performance trends in young entrepreneurs' capacity. Nikitina and Lapina (2017) investigated Latvian students' entrepreneurial attitudes to become self-employed. The results of the survey conducted indicate that, in recent years, students have had insufficient information and knowledge about entrepreneurship promotion measures and labor market. Mavlutova, Lesinskis, Liogys and Hermanis (2020) underline the growing importance of modern teaching techniques for entrepreneurship education using software.

Bikse, Riemere, Rivza (2014) concluded in their study that there is a need to improve the teaching and training of entrepreneurship in Latvia and to implement targeted career education measures. Kozlinska (2016) believes that Latvia is slightly lagging behind Estonia in entrepreneurship education as it has not been actively lobbied in Latvian political circles and is still sometimes treated as part of management education.

But there is still a considerable gap in entrepreneurship education studies, including aspects of entrepreneurial aspirations, gender differences, motivation, skills and efficiency of teaching methods.

## 2. Methodological approach

#### 2.1. Research model

Graph 1 systematizes the literature review and provides a design model for the empirical study. It summarizes the set of macro-factors that are environment enablers or disablers of entrepreneurial intention.





These aspects can influence the individual decisions on entrepreneurship as a professional career. They also compile the set of micro-factors, which are more intrinsic to each individual and that also influence their perception about entrepreneurship as a future professional choice, whether positively or negatively. In the middle, entrepreneurship education acts as an enabler of developing and enhancing some personal traits and giving some tools essential to run a business. These factors, including the differences between genders, can interact and promote (or limit) the entrepreneurial intentions and choice for being an entrepreneur in professional life.

#### 2.2. Sample and statistical considerations

This exploratory study collected a convenience sample. It consists of a total of 360 680-respondents. In terms of gender, 59.7% are female and 40.3% are male. Proportion of male and female in a survey represents the gender structure of Latvian students. The sample was collected in 2018 and 2019 using a digital questionnaire based on the literature review above. Table 2 shows the main characteristics of the sample.

The statistical analysis involved measures of descriptive statistics (absolute and relative frequencies, means and respective standard deviations) and inferential statistics. The level of significance for rejecting the null hypothesis was fixed at  $\alpha \leq .05$ . The Chi-square test and the Fisher test were used. The Chi-square assumption that there should be no more than 20% of cells with expected frequencies below 5 was analyzed. In situations where this assumption was not satisfied, the Chi-square test by Monte Carlo simulation was used. The differences were analyzed with the support of standardized adjusted residuals.

Table 2. Sociodemographic characteristics (N = 360)

	Ν	%
Gender		
Male	215	59.7
Female	145	40.3
Age		
20 years or less	105	29.2
21 - 24	169	46.9
25 years or more	86	23.9
Level of studies		
Bachelor 1 <sup>st</sup>	98	27.2
Bachelor 2 <sup>nd</sup>	76	21.1
Bachelor 3 <sup>rd</sup>	93	25.8
Bachelor 4 <sup>th</sup>	36	10.0
Master 1 <sup>st</sup>	36	10.0
Master 2 <sup>nd</sup>	21	5.8

Source: Authors' calculations

Most of the respondents are up to 24 years old (76.1%) and most of them study on the Bachelor level. The representation of master students is small (15.8%).

#### 3. Conducting research and results

The data collected allows to understand the profile of the young respondents concerning their expectation about the future career plans. Table 3 compares males with females. Answers to the first question regarding professional career plans ("In my professional life I see myself as") reveal that the majority of females (53.5%) see themselves working for private or public organization as a specialist or manager, while just 20.9% desire to develop or manage their own business. However, the results for males are inverse- 46.2% desire developing and managing their own business. With a  $\chi 2$  (2) = 28.455, p = .001.

	Female	Male	Total
Developing and managing my own business	20.9%	46.2%	31.1%
I have not decided yet	25.6%	23.4%	24.7%
Working for private or public organization as a	53.5%	30.3%	44.2%
specialist or manager			
Total	100.0%	100.0%	100.0%

Table 3. Future career plans by gender

Source: *Authors' calculations* 

Regarding the perceptions about the skills required to start a business, 52.5% of Latvian students consider they have some relevant skills to start a business; however, only 6.7% are fully confident about the all necessary skills. The differences between genders are smaller, however males seem more confident in self-evaluation about their skills.

The most notable difference between genders can be found in answer where respondents assume full confidence for having all the set of skills necessary to start a business. Only 3.7% of female have chosen this answer while the proportion of such responses among male is 11%.

	Female	Male	Total
I do not have them at all	5.6%	2.8%	4.4%
I have everything to start	3.7%	11.0%	6.7%
I have most of them	16.7%	22.8%	19.2%
I have some, but not enough	54.0%	50.3%	52.5%
I have very few	20.0%	13.1%	17.2%
Total	100.0%	100.0%	100.0%

Table 4.	Self-ev	aluation	about	the	skills	requ	ired to	o start	a	business	bv	gender
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Source: *Authors' calculations* 

Table 5 contains an analysis of macro and micro factors that influence entrepreneurial intentions of Latvian students and characterizes their differences for male and female respondents.

Looking at respondents' views on why people choose entrepreneurship as a career, it can be seen that the responses of both genders are very similar. Both male and female consider two reasons to be the most important- desire for independence (74.4% of female and 73.8% of male) and profit, power and status (54.9% of female and 55.2% of male).

Leadership, charisma and communication skills are believed to be the most important qualities and preconditions needed to become a successful entrepreneur both by female (67.4%) and male (59.3%) respondents. Discipline and ability to work independently is believed to be highly important too. Both in the section on motivation, and on qualities and preconditions needed, answers by male and female are very similar.

The gender difference in answers arrives in section on most important factors discouraging to start a business. Even though both genders equally believe lack of experience and business network and lack of necessary financial resources to be the most discouraging factors (although females assess the role of financially starting a business higher), there is also disagreement on some other factors. For example, female attach important role (26.5%) for the factor "stress, possible impact on my health" while only 15.2% of male believe it is an important factor to discourage starting a business. Inappropriate business environment is considered to be an insignificant factor among female (10.7%), while male respondents attach bigger importance to this factor (17.2%).

Checking potential of business ideas, finding financial sources and mentoring and consulting are equally considered to be the most appreciated assistance forms for starting a business both by male and female. Still, it should be noted that checking potential of business ideas is more important among female (76.1%) than male (62.4%), meaning that males are more confident about their business ideas.

There are gender differences on what skills should be improved through education to start a business. Female are more frequently (49.8%) looking for financial management skills improvement, while male (34.5%) attach lower importance to this education. On the contrary, the biggest importance among male (61.4%) in respect to education is attached to acquisition of specific professional skills related to industry specifics, while female (47%) scored lower importance to this factor. Both genders believe that development of business ideas should be extensively trained through educational activities.

Professional evaluation of soundness and perspective of business ideas, existence of financial support programs and access to mentors and business consultants stand out as the most important types of external support required to start and run a business idea for both male and female. Existence of financial support programs is highly expected (71.2%) among female.

Table 5. Percep	ptions, micro-fact	ors and macro	-factors influenc	ing entrepreneurial	intentions
by gender					

MICRO-FACTORS           Most important reasons why people pursue entrepreneurship as a career choice           Desire for independence (being your own boss)         74.4%         73.8%         .903           Profit, power and status         54.9%         55.2%         1.000           Creating and making a better world         24.2%         23.4%         .900           Dissatisfaction from being employed by others         27.0%         29.7%         .6633           Personal development         19.1%         17.9%         .890           Qualities and preconditions needed to become a successful entrepreneur         Discipline, ability to work independently         60.5%         \$8.6%         .743           Optimism and confidence         34.0%         34.5%         1.000         Ambitiousness and purposefulness         \$1.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745         Readiness to risk         \$4.0%         \$7.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         .1000         Pormal education degree         .1%         .1%         .374           Business network         23.7%         35.2%         .023*         Financial or material resources         38.1%         .311% </th <th></th> <th>Female</th> <th>Male</th> <th>Sig.</th>		Female	Male	Sig.				
Most important reasons why people pursue entrepreneurship as a career choiceDesire for independence (being your own boss) $74.4\%$ $73.8\%$ $903$ Profit, power and status $54.9\%$ $55.2\%$ $1.000$ Creating and making a better world $24.2\%$ $23.4\%$ $900$ Dissatisfaction from being employed by others $27.0\%$ $29.7\%$ $.6333$ Personal development $19.1\%$ $17.9\%$ $.890$ Qualities and preconditions needed to become a successful entrepreneurDiscipline, ability to work independently $60.5\%$ $58.6\%$ $.743$ Optimism and confidence $34.0\%$ $34.5\%$ $1.000$ Ambitiousness and purposefulness $51.6\%$ $44.8\%$ $.237$ Creativity, capability to innovate, vision $58.1\%$ $55.9\%$ $.745$ Readiness to risk $54.0\%$ $57.9\%$ $.517$ Specific knowledge in the field, industry $35.3\%$ $35.9\%$ $1.000$ Formal education degree $5.1\%$ $2.1\%$ $.371$ Business network $23.7\%$ $35.2\%$ $.023*$ Financial or material resources $38.1\%$ $33.1\%$ $.371$ Business scaperience $11.2\%$ $12.4\%$ $1.000$ Flexibility, readiness for adaptation $39.1\%$ $46.2\%$ $192$ Most important factors discouraging to start a businessFear of failure $48.8\%$ $49.7\%$ $.915$ External support asked to start a businessFear of failure <td>MICRO-FACTORS</td> <td></td> <td></td> <td></td>	MICRO-FACTORS							
Desire for independence (being your own boss)         74.4%         73.8%         .903           Profit, power and status         54.9%         55.2%         1.000           Creating and making a better world         24.2%         23.4%         .900           Dissatisfaction from being employed by others         27.0%         29.7%         .633           Personal development         19.1%         17.9%         .890           Qualities and preconditions needed to become a successful entrepreneur         0.5%         58.6%         .743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         54.0%         .743           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.2%         .0023*           Financial or material resources         38.1%         33.1%         .371           Business network         23.7%         45.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%	Most important reasons why people pursue	entrepreneurship as	a career choice					
Profit, power and status54.9%55.2%1.000Creating and making a better world24.2%23.4%.900Dissatisfaction from being employed by others27.0%29.7%.633Personal development19.1%17.9%.890Qualities and preconditions needed to become a successful entrepreneurDiscipline, ability to work independently $60.5\%$ $58.6\%$ .743Optimism and confidence34.0%34.5%1.000Ambitiousness and purposefulness $51.6\%$ $44.8\%$ .237Creativity, capability to innovate, vision $58.1\%$ $55.9\%$ .745Readiness to risk $54.0\%$ $57.9\%$ .517Specific knowledge in the field, industry $35.3\%$ $35.9\%$ 1.000Formal education degree $5.1\%$ $2.1\%$ .173Business network23.7% $35.2\%$ .023*Financial or material resources $38.1\%$ $33.1\%$ .371Business experience $11.2\%$ $15.2\%$ .265Leadership, charisma and communication skills $67.4\%$ $59.3\%$ .118Persistence to stress and good health $21.4\%$ $21.4\%$ $1.000$ Firear of failure $48.8\%$ $49.7\%$ .915Stress, possible impact on my health $26.5\%$ $58.6\%$ .743Lack of necesary financial resources $68.4\%$ $62.8\%$ .307Lack of necesary financial resources $68.4\%$ $62.8\%$ .307Lack of necesary financial resources $68.4\%$ $62.8\%$ <td>Desire for independence (being your own boss)</td> <td>74.4%</td> <td>73.8%</td> <td>.903</td>	Desire for independence (being your own boss)	74.4%	73.8%	.903				
Creating and making a better world         24.2%         23.4%         .900           Dissatisfaction from being employed by others         27.0%         29.7%         .633           Personal development         19.1%         17.9%         .890           Qualities and preconditions needed to become a successful entrepreneur         Discipline, ability to work independently         60.5%         58.6%         .743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business network         21.4%         1.000         Persistence to stress and good health         21.4%         1.000           Flexibility, readiness for adaptation         3.9%         46.2%         .192	Profit, power and status	54.9%	55.2%	1.000				
Dissatisfaction from being employed by others         27.0%         29.7%         .633           Personal development         19.1%         17.9%         .890           Qualities and preconditions needed to become a successful entrepreneur         Discipline, ability to work independently         60.5%         58.6%         .743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%	Creating and making a better world	24.2%	23.4%	.900				
Personal development         19.1%         17.9%         .890           Qualities and preconditions needed to become a successful entrepreneur         Discipline, ability to work independently         60.5%         58.6%         .743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         .46.2%         .192           Most important factors discouraging to start a business         Fear of	Dissatisfaction from being employed by others	27.0%	29.7%	.633				
Qualifies and preconditions needed to become a successful entrepreneur           Discipline, ability to work independently         60.5%         58.6%         .743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         .42.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*         Lack of knowledge and skills         48.8%	Personal development	19.1%	17.9%	.890				
Discipline, ability to work independently         60.5%         58.6%         743           Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .0	Qualities and preconditions needed to b	ecome a successful er	ntrepreneur					
Optimism and confidence         34.0%         34.5%         1.000           Ambitiousness and purposefulness         51.6%         44.8%         .237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         51.2%         .013*         .113*           Lack of necessary financial resources         68.4%         62.5%         .107         .124*           Lack of necessary financial resources         68.4%         62.8%         .307	Discipline, ability to work independently	60.5%	58.6%	.743				
Ambitiousness and purposefulness         51.6%         44.8%         237           Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Filexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business           Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*           Lack of knowledge and skills         48.8%         57.9%         .107           Lack of government support         20.5%         17.	Optimism and confidence	34.0%	34.5%	1.000				
Creativity, capability to innovate, vision         58.1%         55.9%         .745           Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .0023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*         Lack of knowledge and skills         48.8%         57.9%         .107           Lack of necessary financial resources         68.4%         62.8%         .307         Inappropriate business environment         10.7%         .72%         .083	Ambitiousness and purposefulness	51.6%	44.8%	.237				
Readiness to risk         54.0%         57.9%         .517           Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*         Lack of knowledge and skills         48.8%         57.9%         .107           Lack of experience and business network         60.5%         58.6%         .743         .083         Lack of government support         20.5%         17.9%         .083           Lack of government support         20.5%         17.9%         .589         Personal and f	Creativity, capability to innovate, vision	58.1%	55.9%	.745				
Specific knowledge in the field, industry         35.3%         35.9%         1.000           Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*           Lack of knowledge and skills         48.8%         57.9%         .107           Lack of necessary financial resources         68.4%         62.8%         .307           Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7% <t< td=""><td>Readiness to risk</td><td>54.0%</td><td>57.9%</td><td>.517</td></t<>	Readiness to risk	54.0%	57.9%	.517				
Formal education degree         5.1%         2.1%         .173           Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000         Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*         Lack of knowledge and skills         48.8%         57.9%         .107           Lack of necessary financial resources         68.4%         62.8%         .307         Inappropriate business network         60.5%         58.6%         .743           Lack of government support         20.5%         17.9%         .589         Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS         Checking potential of my business ideas         76.1%         62.4%         .083         Finding f	Specific knowledge in the field, industry	35.3%	35.9%	1.000				
Business network         23.7%         35.2%         .023*           Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         21.4%         1.000           Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         .013*         .013*           Eack of knowledge and skills         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*           Lack of knowledge and skills         48.8%         57.9%         .107           Lack of necessary financial resources         68.4%         62.8%         .307           Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS	Formal education degree	5.1%	2.1%	.173				
Financial or material resources         38.1%         33.1%         .371           Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         21.4%         1.000           Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business	Business network	23.7%	35.2%	.023*				
Business experience         11.2%         15.2%         .265           Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         21.4%         1.000           Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business         .192	Financial or material resources	38.1%	33.1%	.371				
Leadership, charisma and communication skills         67.4%         59.3%         .118           Persistence to stress and good health         21.4%         1.000           Flexibility, readiness for adaptation         39.1%         46.2%         .192           Most important factors discouraging to start a business	Business experience	11.2%	15.2%	.265				
Persistence to stress and good health $21.4\%$ $21.4\%$ $1.000$ Flexibility, readiness for adaptation $39.1\%$ $46.2\%$ $.192$ Most important factors discouraging to start a business $192$ Fear of failure $48.8\%$ $49.7\%$ $.915$ Stress, possible impact on my health $26.5\%$ $15.2\%$ $.013*$ Lack of knowledge and skills $48.8\%$ $57.9\%$ $.107$ Lack of experience and business network $60.5\%$ $58.6\%$ $.743$ Lack of necessary financial resources $68.4\%$ $62.8\%$ $.307$ Inappropriate business environment $10.7\%$ $17.2\%$ $.083$ Lack of government support $20.5\%$ $17.9\%$ $.589$ Personal and family preconditions $15.8\%$ $20.7\%$ $.262$ MACRO-FACTORS	Leadership, charisma and communication skills	67.4%	59.3%	.118				
Flexibility, readiness for adaptation       39.1%       46.2%       .192         Most important factors discouraging to start a business         Fear of failure       48.8%       49.7%       .915         Stress, possible impact on my health       26.5%       15.2%       .013*         Lack of knowledge and skills       48.8%       57.9%       .107         Lack of experience and business network       60.5%       58.6%       .743         Lack of necessary financial resources       68.4%       62.8%       .307         Inappropriate business environment       10.7%       17.2%       .083         Lack of government support       20.5%       17.9%       .589         Personal and family preconditions       15.8%       20.7%       .262         MACRO-FACTORS	Persistence to stress and good health	21.4%	21.4%	1.000				
Most important factors discouraging to start a business           Fear of failure         48.8%         49.7%         .915           Stress, possible impact on my health         26.5%         15.2%         .013*           Lack of knowledge and skills         48.8%         57.9%         .107           Lack of experience and business network         60.5%         58.6%         .743           Lack of necessary financial resources         68.4%         62.8%         .307           Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS	Flexibility, readiness for adaptation	39.1%	46.2%	.192				
Fear of failure       48.8%       49.7%       .915         Stress, possible impact on my health       26.5%       15.2%       .013*         Lack of knowledge and skills       48.8%       57.9%       .107         Lack of experience and business network       60.5%       58.6%       .743         Lack of necessary financial resources       68.4%       62.8%       .307         Inappropriate business environment       10.7%       17.2%       .083         Lack of government support       20.5%       17.9%       .589         Personal and family preconditions       15.8%       20.7%       .262         MACRO-FACTORS         Checking potential of my business ideas       76.1%       62.4%       .083         Finding financial sources       73.2%       64.7%       .300         Business training       31.0%       28.2%       .727         Mentoring and consulting       60.6%       58.8%       .871         Infrastructure       23.9%       35.3%       .161         Informational support       38.0%       50.6%       .146	Most important factors discour	aging to start a busin	iess					
Stress, possible impact on my health         26.5%         15.2%         .013*           Lack of knowledge and skills         48.8%         57.9%         .107           Lack of experience and business network         60.5%         58.6%         .743           Lack of necessary financial resources         68.4%         62.8%         .307           Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS	Fear of failure	48.8%	49.7%	.915				
Lack of knowledge and skills       48.8%       57.9%       .107         Lack of experience and business network       60.5%       58.6%       .743         Lack of necessary financial resources       68.4%       62.8%       .307         Inappropriate business environment       10.7%       17.2%       .083         Lack of government support       20.5%       17.9%       .589         Personal and family preconditions       15.8%       20.7%       .262         MACRO-FACTORS         Checking potential of my business ideas       76.1%       62.4%       .083         Finding financial sources       73.2%       64.7%       .300         Business training       31.0%       28.2%       .727         Mentoring and consulting       60.6%       58.8%       .871         Infrastructure       23.9%       35.3%       .161         Informational support       21.0%       21.0%       .146	Stress, possible impact on my health	26.5%	15.2%	.013*				
Lack of experience and business network $60.5\%$ $58.6\%$ $.743$ Lack of necessary financial resources $68.4\%$ $62.8\%$ $.307$ Inappropriate business environment $10.7\%$ $17.2\%$ $.083$ Lack of government support $20.5\%$ $17.9\%$ $.589$ Personal and family preconditions $15.8\%$ $20.7\%$ $.262$ MACRO-FACTORSChecking potential of my business ideas $76.1\%$ $62.4\%$ $.083$ Finding financial sources $73.2\%$ $64.7\%$ $.300$ Business training $31.0\%$ $28.2\%$ $.727$ Mentoring and consulting $60.6\%$ $58.8\%$ $.871$ Infrastructure $23.9\%$ $35.3\%$ $.161$ Informational support $ab.0\%$ $bb.0.6\%$ $.146$	Lack of knowledge and skills	48.8%	57.9%	.107				
Lack of necessary financial resources         68.4%         62.8%         .307           Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS	Lack of experience and business network	60.5%	58.6%	.743				
Inappropriate business environment         10.7%         17.2%         .083           Lack of government support         20.5%         17.9%         .589           Personal and family preconditions         15.8%         20.7%         .262           MACRO-FACTORS         External support asked to start a business	Lack of necessary financial resources	68.4%	62.8%	.307				
Lack of government support $20.5\%$ $17.9\%$ $.589$ Personal and family preconditions $15.8\%$ $20.7\%$ $.262$ MACRO-FACTORSExternal support asked to start a businessChecking potential of my business ideas $76.1\%$ $62.4\%$ $.083$ Finding financial sources $73.2\%$ $64.7\%$ $.300$ Business training $31.0\%$ $28.2\%$ $.727$ Mentoring and consulting $60.6\%$ $58.8\%$ $.871$ Infrastructure $23.9\%$ $35.3\%$ $.161$ Informational support $.88.0\%$ $.50.6\%$ $.146$	Inappropriate business environment	10.7%	17.2%	.083				
Personal and family preconditions15.8%20.7%.262MACRO-FACTORSExternal support asked to start a businessChecking potential of my business ideas76.1%62.4%.083Finding financial sources73.2%64.7%.300Business training31.0%28.2%.727Mentoring and consulting60.6%58.8%.871Infrastructure23.9%35.3%.161Informational support38.0%50.6%.146	Lack of government support	20.5%	17.9%	.589				
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MACRO-FACTORSExternal support asked to start a businessChecking potential of my business ideas76.1%62.4%.083Finding financial sources73.2%64.7%.300Business training31.0%28.2%.727Mentoring and consulting60.6%58.8%.871Infrastructure23.9%35.3%.161Informational support38.0%50.6%.146								
External support asked to start a businessChecking potential of my business ideas76.1%62.4%.083Finding financial sources73.2%64.7%.300Business training31.0%28.2%.727Mentoring and consulting60.6%58.8%.871Infrastructure23.9%35.3%.161Informational support38.0%50.6%.146	MACRO-FACTORS	· · · · ·						
Checking potential of my business ideas         76.1%         62.4%         .083           Finding financial sources         73.2%         64.7%         .300           Business training         31.0%         28.2%         .727           Mentoring and consulting         60.6%         58.8%         .871           Infrastructure         23.9%         35.3%         .161           Informational support         38.0%         50.6%         .146	External support asked to start a business							
Finding financial sources       73.2%       64.7%       .300         Business training       31.0%       28.2%       .727         Mentoring and consulting       60.6%       58.8%       .871         Infrastructure       23.9%       35.3%       .161         Informational support       38.0%       50.6%       .146	Checking potential of my business ideas	76.1%	62.4%	.083				
Business training         31.0%         28.2%         .727           Mentoring and consulting         60.6%         58.8%         .871           Infrastructure         23.9%         35.3%         .161           Informational support         38.0%         50.6%         .146	Finding financial sources	73.2%	64.7%	.300				
Mentoring and consulting         60.6%         58.8%         .871           Infrastructure         23.9%         35.3%         .161           Informational support         38.0%         50.6%         .146	Business training	31.0%	28.2%	.727				
Infrastructure         23.9%         35.3%         .161           Informational support         38.0%         50.6%         .146	Mentoring and consulting	60.6%	58.8%	.871				
Informational support 38.0% 50.6% .146	Infrastructure	23.9%	35.3%	.161				
	Informational support	38.0%	50.6%	.146				

Most problematic factors for doing a business in a country						
Inefficient government bureaucracy	61.9%	57.2%	.383			
Tax rates and regulation	75.8%	69.7%	.225			
Government and policy instability	58.1%	50.3%	.161			
Inappropriately educated workforce	16.3%	25.5%	.043*			
Access to funding	55.8%	45.5%	.067			
Inadequate infrastructure and facilities	24.2%	20.0%	.371			

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Corruption	48.8%	58.6%	.085			
Insufficient capacity to innovate	25.1%	22.1%	.531			
Lack of ethic in national labor force	29.3%	40.7%	.031*			
Crime	4.7%	9.0%	.124			
MACRO FACTORS THAT COULD BE ENABLED BY ENTREPREURIAL EDUC						
Skills needed to start a b	ousiness					
Development of business ideas	61.9%	57.2%	.383			
Assessment of business potential of business ideas	42.8%	43.4%	.914			
Communication, leadership and general management skills	54.9%	47.6%	.197			
Sales and marketing skills	43.3%	55.2%	.031*			
Financial management skills	49.8%	34.5%	.005**			
Specific professional skills related to industry specifics	47.0%	61.4%	.010*			
External support required to start an	d run a business	s idea				
Professional evaluation of soundness and perspective of business idea	59.2%	60.0%	1.000			
Existence of financial support programs	71.2%	59.0%	.070			
Access to mentors and business consultants	63.2%	70.5%	.264			
Access to appropriate infrastructure	35.2%	45.7%	.108			
Access to business training	34.4%	30.5%	.574			
Support from family, relatives and friends	36.0%	33.3%	.680			

Source: Authors' calculations \* p < .05 \*\* p < .01 \*\*\* p < .001

Table 6 shows the comparative results by gender through the use of the statistically significant variables, and also provides a linkage with literature review. The signal + indicates higher value as a percentage.

#### Table 6. Outcomes of comparative analysis

	Female	Male					
MICRO-FACTORS							
Qualities and preconditions to become a successful entrepreneur							
Business network		+					
Most important factors discouraging	g to start a business						
Lack of knowledge and skills	+						
MACRO-FACTORS							
Most problematic factors for doing b	ousiness in a country						
Inappropriately educated workforce	+						
Lack of ethic in national labor force		+					
MACRO FACTORS THAT COULD BE ENABLED B	Y ENTREPREURIAL E	DUCATION					
Skills needed to start a b	ousiness						
Sales and marketing skills		+					
Financial management skills	+						
Specific professional skills related to industry specifics		+					

Source: Authors' calculations

The analysis of differences between the two groups and their statistical significance guides to critical discussion involving and comparing arguments and outcomes from other researches made before, statistics and relevant literature.

#### 4. Discussion

The empirical study has provided insight results on the importance of different macro and micro factors believed to be important in starting a business by Latvian students with an extensive emphasis on gender differences. Following the research model based on the literature review, the different factors that influence entrepreneurial intentions were grouped into micro and macro factors (including education and training). After analyzing the survey, differences between groups observed were quite significant. Several statistically significant differences worth discussing were detected between Latvian male and female students.

The vision about future career choices shows statistically significant difference depending on gender. Male students are much more inclined to developing and managing their own business than female students. This fully corresponds to the reality observed for many years by Global Entrepreneurship Monitor consortium. Thus, in year 2019 there was a 19.6% Total early-stage Entrepreneurial Activity (TEA) rate for male in Latvia, while female rate stood at 11.3% (GEM, 2020). Both rates are very high in the EU context, however the gender difference is worth noting too.

There is a 1 difference in the self-assessment regarding possession of skills to start a business. Male students have much higher belief in their skills to start a business. At the same time, it should be emphasized that survey data reflect only subjective views and perceptions of respondents and not proven facts about possession of skills in reality. The phenomena of higher self-esteem in male population has been discussed in this paper's literature review referring to Shirokova et al. (2016) and Vamvaka et al. (2020).

One of the most significant differences was found regarding most important factors that discourage starting a business, where female reveal a lack of knowledge and skills. It has been discussed by several authors (Haus et al., 2013; Camelo-Ordaz et al., 2016) that females transform their entrepreneurial intentions into action much less than males, because females tend to perceive various obstacles to entrepreneurship in a more tangible way. It has also been found that the fear of failure is one the most important obstacles for female students to start a business.

When analyzing the most problematic factors for doing business in a country, the perception about an inappropriately educated workforce is higher in females than in males. It is again related to the higher requirements put forward and lower self-esteem in female population discussed by authors mentioned in the previous paragraphs. The lack of ethics in national labor force appears as significant and higher in male students.

Problems with human capital quality arise concerns. Several studies made by many researchers emphasize that youths' success in the transition to entrepreneurship is closely related to the human capital element, which is very important to the entrepreneur's capability in maintaining business continuity, such as experiences of being involved in similar industry and business sector (Gartner, Starr, & Bhat, 1999; Englis, Ratinho, Englis & Harms, 2010; Mishra, 2005; Boyer & Blazy, 2014), and formal education graduate (Dencker, Guber, & Shah, 2009; Mishra, 2005).

Surveyed Latvians stress the inefficient government bureaucracy, tax rates and regulation as the most important obstacles to start their ventures than in other Eastern European countries.

Surveyed Latvian female students underline a significant difference in the ability to start a business, emphasizing the lack of financial management skills. Several authors believe females have lower level of financial literacy and gap in financial decision-making and also that females are less exposed to risk and usually avoid borrowing, equity crowdfunding and raising angel or venture capital, which discourage them to start a business (Al-Bahrani et al., 2020; Malaga et al., 2019).

When analyzing some negative perceptions revealed from survey regarding entrepreneurial intensions, business environment and self-esteem, there is some controversy with the reality as proved by studies made by other institutions. For example, from year-to-year Latvia possesses very high position in World Bank's Doing Business index. Thus, for the year 2020, Latvia holds the 19<sup>th</sup> position among 190 economies in the world in the Doing Business 2020 index. Looking at the scores for selected components, one can find that Latvia was placed 16<sup>th</sup> in "Paying taxes", 26<sup>th</sup> in "Starting a business", 25<sup>th</sup> in "Registering property", 15<sup>th</sup> in "Getting credit" and 28<sup>th</sup> in "Trading across borders" (World Bank, 2020). These scores placed Latvia well above most of the other Eastern European countries. This allows to conclude that the perceptions of students regarding bureaucracy, regulation and tax regimes do not match the reality and are rather related to some stereotypes surrounding the society in general regarding the business environment in the country.

## Conclusion

This research highlights a set of results about entrepreneurial perceptions and aspirations of the Latvian students and their vision about their professional careers respectively. The impact of macro-factors, micro-factors and entrepreneurial education was analyzed in Latvia paying particular attention to gender issues.

In general, females see themselves working for private or public organization as specialists or managers, and just minority desires to develop or manage their own business. Males reveal an inverse result, most of them desire to become entrepreneurs. When analyzing perceptions about the skills required to start a business, the differences between genders are smaller, nevertheless males seem more confident than females.

Contemporary researches reveal that gender has a much higher influence on entrepreneurial intention than age and the student's specialty.

The results reveal several statistically significant differences between Latvian male and female students. Female students are more exposed to fear of failure and lower selfesteem regarding several skills and indirectly indicate lower belief in the quality of their business ideas. Males have higher belief in their skills to start a business, but reveal some macro constrains about ethic and values to develop a business. However, they require more skills in the field of marketing and specific industry knowledge to start a business. Females find great reveal a higher concern about their financial management skills.

Further research should include data from other countries to enlarge comparisons in order to identify eventual similarities and differences and new avenues for the study of the entrepreneurial education, particularly analyzing the gender differences and the role of higher education in this context.

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