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ISSN 2345-0479 / eISSN 2345-0487 2020 Volume 13 Issue 2: 387-405 https://doi.org/10.3846/cs.2020.10482

# HOW ATTITUDES, VISION AND ABILITY TO CAPTURE OPPORTUNITIES AFFECT STARTUPS' BUSINESS CREATIVITY

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Received 9 June 2019; accepted 23 April 2020

**Abstract.** This article examines the main factors that affect creativity in startups and how these factors influence entrepreneurial initiative strategies. Fifty individuals from the Extremadura region, Spain, participated in an online questionnaire in 2018 and 2019. *SmartPLS* was used to create a model of the interactions between variables. The results obtained have important theoretical and practical implications as they add new findings to the current literature on the role played by different factors in the creativity processes used by startups. The model has a strong predictive power ( $R^2 = 42.7\%$ ). This work describes internal factors such as the improvement in intellectual and attitudinal skills for identifying business opportunities as a preliminary step to taking creative business decisions, as well as shaping the future by coordinating potential efforts and actions.

**Keywords:** creativity, entrepreneurship, partial least squares structural equation modeling, startup business.

#### Introduction

The appearance of new technologies has created a business ecosystem which includes innovative projects that increase the amount of competition and added value, which are the main ways to obtain profitability in business initiatives (King & Levine, 1993; Venkataraman, 2019; Aldrich & Martinez, 2015).

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An ecosystem of small technological companies which have their business strategies based on innovation has emerged in an environment of technological development (Yolanda & Syuraini, 2019) and are known as startups (Ben Chikha & Jarboui, 2017; Mas-Tur, Roig-Tierno, & Ribeiro Soriano, 2016). Creativity and innovation are the reasons for the success of their projects (Ven, Hudson, & Schroeder, 1984).

In an ecosystem of startups and entrepreneurial projects which use the techniques of digital marketing and the main strategies of data analysis and associated technologies (Saura & Bennett, 2019). It is essential that the technological startups and entrepreneurial projects can detect opportunities and have a vision of the business sectors, which they are marketing to so that they can create successful projects (Almeida, Dokko, & Rosenkopf, 2003; Yunis, Tarhini, & Kassar, 2018).

Startups and entrepreneurial projects with technological innovation are usually supported by grants that come from institutions such as the university, government institutions for innovation (Sulistyo & Siyamtinah, 2016), or start-up accelerators and incubators where business angels select and invest in creative innovation projects (Bennett, Pérez-Bustamante Yábar, & Saura, 2017).

The themes and scopes of the business projects that startups detect and decide to develop are essential for the exponential development of the technology and projects (Lee, Hallak, & Sardeshmukh, 2016). Another important point for the success of the business model is the ability of the startup team to implement creative strategies. These teams must be multidisciplinary, creative and expert in strategy and innovation (Zapatero et al., 2018; Saura, Palos-Sanchez, & Grilo, 2019b).

The leadership capacity and the vision of the startups, as well as the initiative to generate new business models, is what is known as "pivoting" in the world of startups. Therefore, being able to pivot is essential for these business models to be solid in the long term (Kazanjian, Drazin, & Glynn, 2002).

Likewise, creativity is the ability to develop ideas that can be used to satisfy the requested needs and demands. Creativity in startups is important for making an impact on the audience and transmitting the innovation to the audience in an effective way (Welter et al., 2017; Endrik et al., 2019).

The vision of a startup is the definition of the projected route to success for a startup or what it wants to become in the long term and is an important factor in the variable ecosystem of startups (Ven et al., 1984; Cooper & Folta, 2017).

Initiative is also important in the world of startups as it determines the actions a company takes in a changing environment in which decisions must be taken on a daily basis to obtain a powerful project that can pivot and propose new strategies (Saura, Palos-Sanchez, & Correia, 2019a). The creativity of startups can be seen to be important for successful projects (Zahra & George, 2002; Hitt & Ireland, 2017).

The aim of this research is to identify the main factors that affect creativity in innovative startups and entrepreneurial projects and how these can influence the strategies for the entrepreneurial initiative. This study used a methodological approach of structural

equation analysis with partial least squares structural equation modeling (PLS-SEM) software.

The results of this research increase the bibliography for this research gap about the creativity of innovative startups and entrepreneurial projects and the generation of opportunities and initiative. The results of this research can also be used by innovative startups to improve their projects and creativity, along with their attitude and opportunity detection abilities in the technology and innovation ecosystem.

This investigation is structured in the following way. First, there is a review of the literature of the main research in this field. Second, the methodology and development of the hypotheses is explained. Next, the analysis of the results and discussion are presented and finally, the conclusions.

#### 1. Literature review

Research has been done into different aspects of the ecosystem of startups and entrepreneurial projects using innovation in the last decade (Hooi et al., 2016; Kiani Mavi & Amin Afshar, 2017). Saura et al. (2019b) continued the research presented by Farinha et al. (2017) and Aisyah, Musa, and Ramli (2017) and presented a methodological approach to the study of the main indicators that make a startup successful. References to creativity, innovation, equipment and technology are all included in that study.

Robina-Ramírez, Fernández-Portillo, and Díaz-Casero (2019) analyzed indicators for environmental startups, which means, the innovation and creativity processes in a new model of environmental valuation for newly created companies. Mazzarol et al. (1998) defined the role and importance of creativity in companies as a factor that motivates the success of business projects. Helbert (2016) studied the influence of creativity in startups, but in periods of crisis, in order to understand whether lack of creativity can negatively influence the crisis.

Bennett et al. (2017) investigated the influence that universities have on the creativity of startup and entrepreneurial projects that are carried out in this ecosystem, as well as measuring the social values and the creativity of the innovation in these types of projects.

Almeida et al. (2003) studied the mechanisms that startups have to detect opportunities and what their capacity is to make decisions in terms of motivation, enthusiasm and attitude. Aldrich and Martinez (2015) looked into the reason why entrepreneurs are not more creative and studied the relationship between creativity and innovation in order to define the factors that affect this relationship.

Chu et al. (2004) investigated the influence of attitude and discipline on the creativite strategies at startups.

Ensley, Hmieleski, and Pearce (2006) studied the importance of leadership in startups and entrepreneurial projects in order to manage teams correctly. The study also looked into how leadership affects the innovation and creativity of the projects being worked on.

Table 1 shows other studies that have studied creativity in startups with the approach proposed in this research.

Authors	Description
Rutten (2014)	Show the influence of creativity in the development of startup projects by performing a partial least squares structural equation modeling analysis.
Duchesne, Kourti, and MacGregor (2002)	Performs a statistical process control type analysis to measure the time taken in the process changing strategies of startups (pivoting) taking into account variables such as innovation and creativity.
Howley and Malamis (2014)	Develops a partial least squares path modeling to measure the influence of hidden metrics in the creation of startup strategies.
Endrik et al. (2019)	Study the factors that influence digital startup sustainability with a partial least squares structural equation modeling for the analysis of startups in Indonesia.
Saura et al. (2019b)	Develops an approach using data mining and Latent Dirichlet allocation model to analyse the issues that influence the success of startups taking into account motivation, technology and creativity.

Table 1. Similar studies of creativity and startups (source: created by authors)

# 2. Hypothesis development

The following constructs were proposed to measure the influence of creativity variables in startups (see Figure 1). Attitude is the predisposition that startup teams have when facing new challenges. Vision consists of the perception that startups have when visualizing their long-term objectives in order to achieve them. Ability to identify opportunities refers to the ability of startups to identify and discover business opportunities that allow them to grow. Capture of opportunities refers to the implementation of the identified opportunities (DiPietro & Anoruo, 2006; Freeman & Engel, 2007; Audretsch & Belitski, 2013; Rutten, 2014; Endrik et al., 2019) Initiative measures the degree to which startups start new projects and execute new strategies demanded by the market (Rutten, 2014).

Research by Audretsch and Belitski (2013) showed that attitude has an important influence on the creativity of entrepreneurial projects which use the theory of knowledge in their research. Ven, Hudson, and Schroeder (1984) stated that attitude, along with creativity in the development of new startups is of great importance for their success. These investigations and the link between attitude and creativity led to the following hypotheses:

H1. The attitude of the startups' teams influences the creativity of the startups' strategies. Saura et al. (2019b) highlighted the importance of teams and their attitude and motivation for success when facing new challenges in a digital ecosystem. Reynolds (2001) also linked the attitude of startups with the vision and consolidation of their business projects after measuring the background of business startups. The following hypothesis was proposed using these investigations (Duchesne et al., 2002).

H2. The teams' attitude influences the vision for startup projects.

Freeman and Engel (2007) linked the ability to identify opportunities for creativity with the development of innovation models in startups. Marlet and van Woerkens (2004) carried out a

study to find the skills that accompany creativity in the identification of opportunities (Howley & Malamis, 2014). The following hypothesis was proposed from these investigations:

H3. The ability to identify opportunities for startup teams influences the creativity of their strategies.

Kuo and Gerber (2012) set out the principles of creativity in crowdfunding platforms startups, and identified the skills that startups need to identify opportunities in environments that satisfy the vision of the startup (Nambisan, 2017; Meyer et al., 2002). Endrik et al. (2019) looked at the sustainability of startups and studied the factors that help identify new business models and opportunities for this type of business. The following hypothesis was therefore proposed:

H4. The ability of startup teams to identify opportunities influences the vision of startup projects.

DiPietro and Anoruo (2006) studied how innovation and creativity influenced export performance. In their study, Creativity was found to have positive effects on the ability to detect opportunities. In addition, Montiel Campos et al. (2015) used a creative thinking style model to detect opportunities for startups and linked the influence of creativity to this decision making process (Endrik et al., 2019). The following hypothesis was therefore proposed:

H5. The creativity of startup strategies influences the ability of startup teams to detect opportunities.

Montiel Campos et al. (2015) used a design thinking model and discovered that the ability of entrepreneurs to identify opportunities is linked to the effectiveness of the initiative when creating new projects or opening new lines of products. Kuo and Gerber (2012) referred to entrepreneurship when talking about crowd funding startups that use creativity as a main tool in their business processes. The following hypothesis was proposed from this research:

H6. The ability to identify startup opportunities influences the initiative to pivot or develop new strategies.

Freeman and Engel (2017) found that the startup team's vision of innovative projects helps it to face new opportunities and execute them correctly because of its capacity for innovation and creativity. The successful identification and development of new opportunities is important for the vision of new startup projects (Endrik et al., 2019). The following research hypothesis was then proposed:

H7. The vision of startup projects influences the capture of new opportunities.

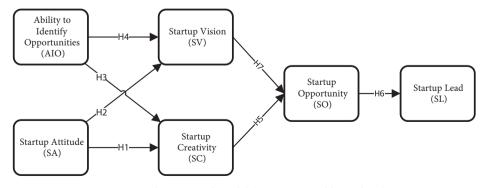


Figure 1. The proposed model (source: created by authors)

# 3. Methodology

An empirical study was used to test the hypotheses. This consisted of an electronically administered questionnaire for residents of the Extremadura region in Spain. The electronic survey was available on the www.diagnosticoemprende.com website of the regional government. The questionnaire is a tool that surveys and shows the results of strengths and weaknesses on a polar graph.

### 3.1. Data sample

The questionnaires were offered to participants (n = 1547) who were selected with the help of the entrepreneur guidance and support services of the regional government. The participants had previously requested funds or technical support for a startup. A pretest with a sample of 46 individuals was used to validate the questionnaire and obtain comments on its structure, the order of the questions and the content in order to refine it. University students, technicians, professors and researchers of entrepreneurship at the university and Government de Extremadura were invited to take part in this pretest group. All incomplete questionnaires, those that contained systematic or inconsistent answers and any observations that did not meet the criteria suggested by Hair et al. (2017) were eliminated from the sample. These answers were not added to the final sample, but they did serve to modify the wording of some items. The questionnaire data was collected between January 2018 and February 2019.

Table 2 shows the profile of the members of the sample, where it can be seen that most of the respondents were women. The final sample was made up of 1547 people. The educational levels were: primary education 31.4% (485), secondary education 32.7% (506), university studies 34.7% (537) and special entrepreneurship training programs 1.2% (19). Another variable that was measured was the place of residence of the entrepreneur: 25.7% (397) came from cities with less than 75,000 inhabitants, 18.0% (279) from towns with 20 000–75 000 inhabitants, 21.1% (327) from villages of 5000–20 000 inhabitants and 35.2% (544) from places with less than 5000 inhabitants. More than 70% of the respondents are in the process of creating the company. That is to say, it is businesses that are starting up and are part of an innovative idea, generally associated with technological development. The rest have been in business for less than 3 years.

Table 2. Profile of respondents (n = 1547) (source: created by authors)						
Se	exo		Residence			
Woman	Man	<25 years	25 years ≤ $x \le 45$ years	>45 years	Region	
47.30%	52.70%	16.20%	48.78%	36.02%	Extremadura, Spain	

#### 3.2. Measuring instruments

All the constructs were measured with a five-point Likert scale using indicators taken from the theoretical review, where 1 = total disagreement and 5 = total agreement. The ability to identify opportunities (AIO) construct was measured with three items, which were: AIO1 –

I value opportunities in social, cultural and economic terms, AIO2 – I value the potential of an idea to create value and AIO3 – I identify the most appropriate way to maximize my entrepreneurial idea.

The startup attitude (SA) construct was measured with 4 items: SA1 – I am confident in myself, SA2 – I am aware of my needs and aspirations in the short, medium and long term, SA3 – I know my individual and group strengths and weaknesses and, last, SA4 – I believe in my ability to influence the course of events, despite uncertainty, setbacks and temporary failures.

The startup vision (SV) construct was measured with 3 items: SV1 - I am able to imagine the future, SV2 - I am able to turn ideas into action and SV3 - I am able to imagine future scenarios, which helps me coordinate efforts and actions.

The startup creativity (SC) construct was measured with 3 items: SC1 – I am able to work on several ideas and opportunities at the same time, SC2 – I try innovative approaches, and SC3 – I combine knowledge and resources to achieve results daily.

The startup opportunity (SO) construct was also measured with 3 items: SO1 – I identify and take advantage of opportunities to create value in my social, cultural and economic environment, SO2 – I identify the needs and challenges that must be met, and SO3 – I am capable of finding opportunities in my environment to create value.

The most endogenous construct of the model was startup leadership (SL). This was measured with 3 items: SL1-I consider myself a person with entrepreneurial initiative, SL2- challenges do not worry me, and SL3-I am an independent worker when carrying out planned tasks.

#### 3.3. Data analysis techniques

The PLS technique was used to test the proposed model. This is an approach used to model structural equations with variance and *SmartPLS* 3.2.7 software (Ringle, Silva, & Bido, 2014). There are various reasons for this choice, such as, the constructs in the model are composite and therefore suitable for the application of PLS (Roldán & Sánchez-Franco, 2012). Also, this aim of this study is to identify the constructs that can help the reputation and image of the national brand (Hair, Ringle, & Sarstedt, 2011). All the constructs were modeled in Mode A.

#### 4. Results

#### 4.1. Measurement model

The measurement model was used to evaluate all the constructs estimated as Mode A. The traditional measurements of internal consistency, reliability and validity were calculated for these constructs (Henseler, Ringle, & Sarstedt, 2016). As a general rule, a satisfactory value for reliability is obtained when the values of both the indicators and the dimensions exceed 0.7. In our case, all the indicators of the Mode A constructs exceed this critical value (Table 3). In addition, the composite reliability was higher than 0.7 (Table 3), thus meeting the requirements.

Table 3. Results of the measurement model (source: created by authors)

Construct/ Indicator		Reliability	Composite reliability	Average variance extracted
Ability to identify opportunities (AIO)			0.896	0.742
AIO1	I am confident in myself.	0.801		
AIO2	I am aware of my needs and aspirations in the short, medium and long term.	0.809		
AIO3	I know my individual and group strengths and weaknesses.	0.791		
AIO4	I believe in my ability to influence the course of events, despite uncertainty, setbacks and temporary failures.	0.818		
Startup creativity (SC)			0.875	0.701
SC1	I am able to work on several ideas and opportunities at the same time.	0.863		
SC2	I try innovative approaches.	0.838		
SC3	I combine knowledge and resources to achieve results daily.	0.810		
Startup lead (SL)			0.857	0.669
SL1	I consider myself a person with entrepreneurial initiative.	0.866		
SL2	Challenges do not worry me.	0.858		
SL3	I am an independent worker when carrying out planned tasks.	0.722		
Startup opportunity (SO)			0.903	0.756
SO1	I identify and take advantage of opportunities to create value in my social, cultural and economic environment.	0.879		
SO2	I identify the needs and challenges that must be met.	0.868		
SO3	I am capable of finding opportunities in my environment to create value.	0.863		
Startup vision (SV)			0.878	0.706
SV1	I am able to imagine the future.	0.789		
SV2	I am able to turn ideas into action.	0.844		
SV3	I am able to imagine future scenarios, which helps me coordinate efforts and actions.	0.885		

To demonstrate the convergent validity of the Mode A constructs, the average variance extracted (AVE) was calculated. In our model all constructs and dimensions satisfy this criterion since their AVE value exceeds the minimum level of 0.5 (Table 3).

Two methods were used to find the discriminant validity, which indicates that each construct differs from the other constructs. Firstly, the value of correlation squared for the construct must not exceed the value of the AVE (Fornell & Larcker, 1981). The Heterotrait-Monotrait Ratio of Correlations (HTMT) is another value which was checked (Henseler, Ringle, & Sarstedt, 2015). All the values in the matrix are below 0.85 (Kline, 2010), and the confidence intervals for HTMT do not reach the value of 1 (Henseler et al., 2015) so discriminant validity can be accepted (Table 4).

Table 4. Measurement model: discriminant validity (source: created by authors)

	Fornell–Larcker Criterion						
	Ability to identify opportunities (AIO)	Startup attitude (SA)	Startup creativity (SC)	Startup lead (SL)	Startup opportunity (SO)	Startup vision (SV)	
AIO	0.861						
SA	0.654	0.805					
SC	0.753	0.638	0.837				
SL	0.657	0.653	0.652	0.818			
SO	0.753	0.674	0.770	0.653	0.870		
SV	0.736	0.641	0.723	0.639	0.685	0.840	
	Heterotrait-Monotrait Ratio of Correlations						
	Ability to identify opportunities (AIO)	Startup attitude (SA)	Startup creativity (SC)	Startup lead (SL)	Startup opportunity (SO)	Startup vision (SV)	
AIO							
SA	0.790						
SC	0.841	0.788					
SL	0.818	0.815	0.830				
SO	0.847	0.81	0.844	0.802			
SV	0.845	0.786	0.840	0.808	0.831		

In order to control the possible bias attributable to the measurement variable, the procedure recommended by Podsakoff et al. (2003) was applied. In addition, a complete collinearity test for variance inflation factor (VIF) was used in order to detect possible biases of Kock (2015). The guidelines followed were those described by Kock and Lynn (2012), who proposed this test to evaluate both vertical and lateral collinearity. Kock (2015) showed that when a VIF reaches a value higher than 3.3 (see Table 5), there is an indication of pathological collinearity. This warns that the model may be affected by common method biases.

Ability to identify opportunities (AIO)	Startup attitude (SA)	Startup creativity (SC)	Startup lead (SL)	Startup opportunity (SO)	Startup vision (SV)
AIO		1.748			1.748
SA		1.748			1.748
SC				2.093	
SL					
SO			1		
SV				2.093	

Table 5. Variance inflation factors (source: created by authors)

#### 4.2. Structural model

Bootstrapping (5000 samples) was also performed to find both the t-values and the confidence intervals which allow the statistical significance of the relationships to be found (Roldán & Sánchez-Franco, 2012).

As can be seen in Table 6, the empirical evidence revealed that there is a significant relationship between SA and SC (H1), with a confidence level higher than 99.9% ( $\beta$  = 0.254; t = 9.658), which means that this relationship is supported. Similarly, H2 is supported with the same confidence level, so SA influences SV ( $\beta$  = 0.279; t = 11.240).

The relationship of AIO with SC (H3,  $\beta$  = 0.587; t = 24.159) and with SV (H4,  $\beta$  = 0.554; t = 22.679) is also supported with confidence levels above 99.9%. These two hypotheses (H3 and H4), together with H5 and H6 have the largest values in the model. H5 is the relationship of SC with SO ( $\beta$  = 0.575; t = 22.918) and H6 is the influence of SO on SL ( $\beta$  = 0.653; t = 36.042). H6 is the relationship that has the highest statistical values and therefore the relationship with greatest influence in the model.

Finally, H7 was also found to be supported. So SV influences SO ( $\beta$  = 0.269; t = 9.933).

After examining the size of the effects (f2) in Table 6, Cohen and Howe (1988) show that SO has a great effect on SL (0.744), AIO on SC (0.499), AIO on SV (0.425) and SC on SO (0.425). The effect of SA on SV is only average (0.108). The effects of SA on SC and, of SV on SO are at a level that can only be considered as low (0.093).

Table 7 shows the explanatory capacity of our research model (R2). In addition, the coefficient of determination (R2) was examined to evaluate the explanatory power of endogenous constructs and showed the amount of variance of a construct that is explained by the predictive variables of said endogenous construct in the model (Chin, 2010; Chin & Dibbern, 2010). Therefore, in the proposed model, SL explains 42.70% of the complete model. SO explains 62.80%, which together with SC explains 60.50% (Table 7). Finally, SV explains 58.70%.

The predictive importance of the constructs can be found by using the blindfolding technique. All values of Q2 found to be above zero when using blindfolding procedures show that the predictive relevance for endogenous constructs is supported (Table 7).

The SRMR adjustment index was also found to be 0.061, which is lower than the recommended maximum value of 0.08, confirming the good fit of the global model.

	Path	p- values	t-statistic	Confidence interval	f2	Supported
Ability to identify opportunities  → Startup creativity	0.587	0.00 ***	24.159	[0.538; 0.634]	0.499	Yes
Ability to identify opportunities  → Startup vision	0.554	0.00 ***	22.679	[0.506; 0.602]	0.425	Yes
Startup attitude  → Startup creativity	0.254	0.00 ***	9.658	[0.204; 0.306]	0.093	Yes
Startup attitude  → Startup vision	0.279	0.00 ***	11.240	[0.230; 0.329]	0.108	Yes
Startup creativity → Startup opportunity	0.575	0.00 ***	22.918	[0.527; 0.625]	0.425	Yes
Startup opportunity → Startup lead	0.653	0.00 ***	36.042	[0.617; 0.688]	0.744	Yes
Startup vision  → Startup opportunity	0.269	0.00 ***	9.933	[0.216; 0.322]	0.093	Yes

<sup>\*\*\*</sup>p < 0.001, \*\*p < 0.01, \*p < 0.05, ns: not significant t(0.05; 4999) = 1.64791345; t(0.01; 4999) = 2.333843952; t(0.001; 4999) = 3.106644601 Sig. 0.05

Table 7. Effects of endogenous variables (source: created by authors)

Constructs	R2	Q2
Startup creativity Startup lead Startup opportunity	0.605 0.427 0.628	0.407 0.269 0.455
Startup vision	0.587	0.396

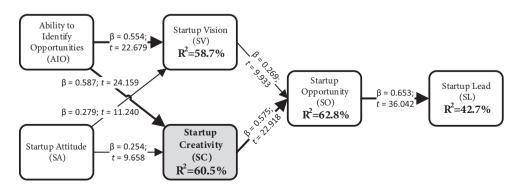


Figure 2. Final model (source: created by authors)

#### Discussion

As can be seen in Figure 2, the confidence level test for the model is higher than 99.9%. This means that this model can explain the determinants of SL, which is the name given to entrepreneurship initiative in this study. The explanatory capacity of the endogenous constructs is also high, especially SO and SC, which shows that both creativity and opportunity are very important determinants for the model.

Figure 2 also shows the relationships with the greatest loads, indicating influence, are represented by thicker arrows. The most influential relationship is AIO with SC, which means that the attitude and AIO are the most important factors which condition creativity. Therefore, the creativity of a startup will be conditioned by the amount of these two competences that the entrepreneur has, especially for the social, cultural and economic assessment of the opportunities, the potential that an idea has for creating value and the ability to identify the most appropriate way to maximize the entrepreneurial idea. These are also important for the capacity to work on several ideas and opportunities together, experiment with innovative approaches and to combine knowledge and resources to achieve results in daily life.

SO is conditioned by both creativity and vision, with creativity being the most influential. The aim of this research was to identify the main factors that affect creativity in startups and how these factors can influence entrepreneurial initiative strategies. It has been shown that the items for opportunity, (such as, how to identify and take advantage of opportunities, the creation of value in the social, cultural and economic environment, the needs and challenges that must be met and, the ability to gather elements from the environment to create opportunities that create value) are all conditioned by aspects of creativity (such as the ability to work on various ideas and opportunities at the same time, experiment with innovative approaches and combine knowledge and resources to achieve results in the daily life of the entrepreneur).

Both competences measured by these constructs (creativity and vision) have a high value of explained variance, which shows their importance in the final model.

Finally, SO has a very high load on SL. In fact, it has the highest load value in the model, so the competences of being able to identify and take advantage of opportunities to create value in the social, cultural and economic environment, identifying the needs and challenges that must be met and, being able to gather elements of the environment to create opportunities that serve to create value, are all important for a successful entrepreneurial initiative. The entrepreneur must be able to accept challenges easily and be independent when working to reach objectives or planned tasks.

#### **Conclusions**

#### a. Theoretical implications

This results from the work carried out in this paper have two main theoretical implications. On the one hand, all entrepreneurial initiative must have large amount of creativity and initiative to be successful. Past studies have been interested in external factors that directly or indirectly affect creativity, such as digital marketing or data analysis strategies to detect

business opportunities.

A lot of research has been carried out on the internal aspects of an entrepreneurial initiative from a theoretical point of view, that is, the entrepreneur's abilities to make creative decisions or, the type of leadership that is needed to encourage creativity among entrepreneurs.

In this study we have taken into account the internal aspects that affect creativity, especially the ability of the entrepreneur to identify business opportunities, and the entrepreneur's attitude to finding out how these abilities influence the creative and innovative processes of SL.

As it is stated in the H3, the ability to identify opportunities for startup teams influences the creativity of their strategies as well as the vision of startup projects (H4). The role that ability plays to identify business opportunities is enormous, as a necessary step when taking creative business decisions. The theoretical implications are extensive. On the one hand, creativity does not depend as much on the technology used as on the acquired internal capacities, and therefore, are not innate in the person. That personal ability to successfully explore the market are based on developing certain skills such as become confident with themselves, developing own knowledge about own needs, aspirations as well as strengths and weaknesses to managing emerging companies. Those abilities are acquired through a learning process to develop entrepreneurial initiatives and channeling the common entrepreneurial challenges to achieve the planned tasks. Reaching that behavioral point, the entrepreneurs will be able to influence the course of event, no matter the level of market uncertainty, setbacks and failures. On the other hand, when talking about skills, each of the aspects that relate directly to the theoretical and practical knowledge of the entrepreneur must be analyzed from a theoretical point of view.

The second theoretical implication looks at the role played by the "vision" of the entrepreneurial initiative as it is mentioned in H7. That entrepreneurial vision influences the capture of new opportunities. These new scenarios allow the entrepreneurs to imagine the future, turning ideas into actions by coordinating efforts and actions. This is a second "internal skill", not of "cognitive or attitudinal abilities" but rather "imaginative capacities". Innovative ideas, by themselves, are not enough; they are just one element of the journey towards market domination. Startups have to apply innovation in an intelligent way that actually solves their customers' problems. These are not so much in the volitional dimension, which is where the former exist, but in the imaginative and emotional dimension, so that future possibilities can be "seen" in the present. This is the main difference between how startups and traditional companies approach innovation.

#### b. Practical implications

Two practical implications, which are directly related to the improvement of the entrepreneurial initiative among potential entrepreneurs, can be concluded from the results found in this research. The first is that any creative process must take into account the ability to identify opportunities in the social, economic, technological and cultural areas as it is conveyed in (H5), This requires a learning process to be used which gives importance to the acquirement of these skills.

Practically, this means training for entrepreneurs must be given with an approach that guarantees the acquisition of this "attitude" and a positive predisposition. That teams' attitude influences the vision for startup projects (H2) and the creativity of the startups' strategies (H1). Then, it is crucial not only to enhance the ability to identify business opportunities and put them into practice, but to deploy positive attitudes towards failure, which could be acquire along the entrepreneurs' life and work. As positive attitude toward failure may become a significant asset for the emerging employers. It definitely helps them to deal with and learn from their mistakes and to move forward.

The second practical implication is the importance of the development of creativity not only to impact the audience to which the product or service is directed, but also to use creativity to help and contribute to building a fairer and more equitable society. As it is stated in the H6, creativity influence not only the ability to identify startup opportunities but also the developing new strategies. Environmental and social start-ups are currently on the increase, not only in Spain, but also internationally. The evolution of green entrepreneurs has recently translated into the appearance of many green start-ups in a wide variety of sectors, business strategies, and marketing targets. These entrepreneurs have created products and services to meet green and social dimension linked to the environment to ascertain the problems suffered by the community. It brings a range of new social values to profits, environment, and fair trade (Robina-Ramírez, Human Forthcoming).

Creativity combined with social and environmental benefits have meant that many companies have improved their corporate social responsibility policies, and therefore, have indirectly contributed to improving the company's income.

The research question posed in this study is answered by both the theoretical and practical implications found. The question was "What factors positively affect the creativity processes in startups and how do these influence companies when creating entrepreneurial strategies?". This work gives ideas to individual companies and entrepreneurs on how to train more creative and innovative individuals.

#### Limitations and recommendations

Among the main limitations of this study is the absence of in-depth interviews with potential and real entrepreneurs. The collected information would have been more exhaustive, and the conclusions of the work may have been enriched.

The second limitation is the lack of segmentation of the individuals in the sample to differentiate the results. The results could have possibly been different depending on the different views taken by the students, technicians or teachers. This lack of discrimination means that a second study could be undertaken to find the different opinions of the groups in the sample in order to enrich the discussion and debate about which contents must be taught and are needed by the different learners.

The third limitation is the lack of methods to effectively improve the attitudes of potential entrepreneurs.

The results recommend investing time and efforts in improving entrepreneur's abilities to identify opportunities, as well as their attitude to carrying out this identification process.

However, the phases or steps which should be followed to achieve this are not stated. This new aspect will be part of the following study, which will use the empirical results obtained in this paper.

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# KAIP ĮSITIKINIMAI, POŽIŪRIS IR GEBĖJIMAS PASINAUDOTI GALIMYBĖMIS DARO ĮTAKĄ STARTUOLIŲ VERSLO KŪRYBIŠKUMUI

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#### Santrauka

Šiame straipsnyje nagrinėjami pagrindiniai veiksniai, darantys įtaką startuolių kūrybiškumui ir prisidedantys prie antrepreneriškų iniciatyvinių strategijų. Penkiasdešimt žmonių iš Ekstramadūros regiono (Ispanija) 2018–2019 m. dalyvavo internetinėje apklausoje. Kintamųjų sąveikos modeliui sukurti buvo naudojamasi SmartPLS kompiuterine programa. Gauti rezultatai yra svarbūs teoriškai ir praktiškai, nes naujausioje literatūroje jie papildė naujus atradimus apie tai, kokį vaidmenį įvairūs veiksniai atliko startuolių kūrybiškumo procesuose. Modeliui būdinga stipri prognostinė galia ( $R^2=42.7\,$ %). Šiame straipsnyje aprašomi vidiniai veiksniai, tokie kaip intelektiniai ir su požiūriu susiję gebėjimai, kuriuos pasitelkiant, verslo galimybės nustatomos kaip parengiamasis žingsnis prieš priimant kūrybinius verslo sprendimus, taip pat sudarant palankias sąlygas ateityje derinant galimas pastangas ir veiksmus.

Reikšminiai žodžiai: kūrybiškumas, antreprenerystė, mažiausiųjų dalinių kvadratų struktūrinių lygčių modeliavimas, startuolių verslas.