Skincare Added Value: The Case Study of Douro **Product Innovation as Territory Sustainability** Chapter 5

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the creation, development, and production of cosmetic lines that are based on emblematic raw materials of the Douro region, one of the oldest wine-growing areas, located in the north of our country, Portugal. It uses Douro grapes and PORT WINE DNA TM (Douro Nuclear Aroma), created from the first Port wine from entirely organic production, to develop cosmetic lines produced with endogenous with the region and are intensively endogenous, an answer to the challenges created products. These types of territorial intensive products (TIPs) are associated directly ated by women that operates in the field of selective biological cosmetics through explores the growth and regional involvement of Douro Skincare, a company crecase study a good practice in answering these new challenges. The smart specialization strategy (RIS3) is defined, we propose to exemplify through a needs in a different perspective. As the territory sustainability within the Abstract Within a smart specialization context, regions and businesses have to develop their innovation and product delivery with added value to supply market within RIS3. case study Portuguese

Keywords Territory sustainability • Smart specialization • Product innovation • Regional brands and marketing • TIPs

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<u>5</u>1 Introduction

economic growth and development, are currently defining the actions of the different Portuguese stakeholders. One of the main objectives of this policy is to guide the well as of a modern sustainable business model. are in line with the mainstream concerns of economic development and growth as tourism and sustainability, through territorial intensive products. These objectives impact its activity, prosecuting innovation and other actual and important goals as mind, it's very interesting to analyze how a Portuguese business company may activity with economic and social impact, namely, business activity. With this in The national development strategies, promoted by the European Union policy for

methodology description followed by the case study portrayal, ending with the main So, our article will present one part of the literature review and another part for the not only collect the data but also to understand why the events occurred as they did odology that permits us a complete insight of the business activity as it allows us to questions we developed to make our research. We will follow the case study methcrature review on the main scientific subjects we have to reach to fully answer the discussions of the results of the research. In our article, we will address these questions by giving a short but pertinent lit-

5.2 Literature Review

5.2.1 Smart Specialization Strategy

economic growth, and employment. This is what they called the smart specialization paradigm. to be aligned so the innovation policies have visible impacts on competitiveness, As stated by Foray et al. (2009), the different assets and features of each region have

competitiveness are due to the characteristics and assets within the territory. specialization principle is based on the belief that innovation strategy and region matted in such a way as to maximize the external interactions and to facilitate the tion (McCann and Ortega-Argilés 2011; Camagni and Capello 2012). So, the smart flow of knowledge but in line with the specifics of the patterns of regional innova-The contextual character of innovation requires that innovation policies are for-

diversification of the productive structure around technology and market relatedness ability of the region to change its technological trajectory in face of an external economies of scale but carry risks of lock-in (conditions the economic structure in the direction of "specialized diversification" (McCann and Ortega-Argilés 2011; demand shock). To overcome these risks, the concept of smart specialization evolved (ESPON 2012). This specialization and its concentration of resources aim to increase underlying 2010), promoting 1&D strategies and innovation leading to an upgrade and

> sis of the potential competitive advantages definition that is able to respond international evolution demand. capital accumulated with regions' economic structure (Capello 2013) and an a Therefore, smart specialization involves the matching of knowledge and human analy-to the

(Foray 2012; Hausmann and Rodrik 2003). This entrepreneurial process empowers entrepreneurs to combine the necessary knowledge about science, technology, and engineering with knowledge of market growth and potential in order to identify the most promising activities. In this learning process, entrepreneurial actors have to als, environmental conditions, and market access conditions and will entail gathering localized information and the formation of social capital assets (OECD 2013). In this context, entrepreneurial actors are not only the people creating new companies but also innovators in established companies, in academia, or in the public The main distinction between smart specialization and traditional industrial and innovation policies is the process defined as "entrepreneurial discovery" which is the interactive process in which market forces and the private sector are discovering sector. play the leading role as they pinpoint the needed adaptations to local skills, materiand producing information about new activities and the government assesses the outcomes and empowers those actors that are most capable of realizing the potential

and regions to be, and remain to be, competitive in the global economy. The smart specialization approach suggests regions, especially those regions which are not leaders in any of the major science and technology domains, to invest in R&D and Smart specialization in RIS3 context consists of a strategic approach to economic development mainly focused on research and innovation. This concept is based on the principle that the concentration of knowledge resources and their connection to a limited number of priority economic activities will enable the countries and regions to be and comin to be concentration. innovation on few key priorities (OECD 2013). Smart specialization in RIS3 context consists of a strategic approach to

In Portugal, the smart specialization strategy was thought at a national level and in a regional context. Each region of the country, accordingly with the national and regional government existing (North, Centre; Lisbon and Tagus Valley; Alentejo, Algarve, Azores, and Madeira), had to think and define its own RIS3. The implementation of the intelligent specialization regional strategy was founded on distinctive characteristics and the existing potential and affirming competitive international emerging, so it is essential to assess the regional scientific critical mass, business base and the existence and potential of articulation with power users. In the Northern region, this evaluation has identified eight priority areas (Life Sciences and Health; Resources of the Sea and Economy; Human Capital and Specialized Services; Culture, Creation and Fashion; Industries of Mobility and Advanced Production of intensive scientific and technological capacities, in particular in the fields of tourism and marketing, as defined for the symbolic capital technologies and tourism services domain, but also they fit in the agro-environment and food systems since Agro-environment and Food Systems) (CCDRN 2014). It is in these last two domains that the products of our case study may be integrated since not only they seem to fit in the appreciation of cultural resources and territory, taking advantage of integration of the control of th Systems Environment; Symbolic Capital Technologies; Tourism Services:

opment, even if this product is not food. with scientific and technological skills and enterprise with a related product develthey articulate the agriculture potential of the region with an added value product

5.2.2 Product Innovation, Sustainability, and Added Value

mainly between process, product, and organizational innovation: Innovation, as defined in the Oslo Manual of the OECD (1997), distinguishes

- Process innovations occur when a given amount of output (goods, services) can be produced with less input.
- often process innovations in another firm. Product innovations require improvements to existing goods (or services) or the development of new goods. Product innovations in machinery in one firm are
- Organizational innovations include new forms of management, e.g., total quality

tainable development is motivated by concern about direction and content of progand open in all directions. In contrast, putting emphasis on innovation toward susthus, contribute to the improvement of the situation (Fig. 5.1). sustainability is that they reduce environmental burdens at least in one item and, ress (Rennings 2000). Thus, the additional attribute of innovations toward The general definition of innovation is neutral concerning the content of change

bias." Natural resources can often be characterized as open access regimes, and and land are not primarily technological questions, this may lead to a "technology unsustainable use stems from inappropriate institutional arrangements (Rennings focus on technological progress. Since many problems of sustainable use of nature Progress is often still understood simply as innovation in firms, with a strong

the benefit it provides to the market. to meet these concerns differentiates them and adds value to the product in terms of and Proença 2011). This consumer recognition of its ecological responsibility has quences in the corporate world, which began by considering the development of Proença 2011). In this sense, the additional value that can be provided by products important aspect of the lives of consumers and their buying decisions (Paiva and new products more in line with the environmental concerns of the markets (Paiva become a concern in protecting and preserving the environment in an increasingly The increasing awareness of the environmental theme by consumers had conse-

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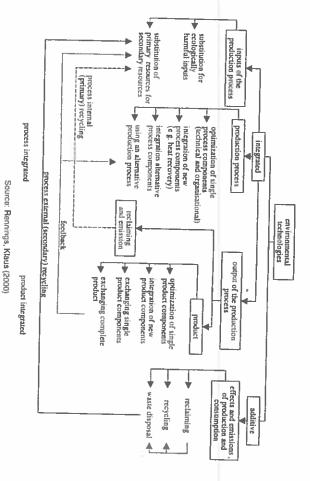


Fig. 5.1 Preventive environmental technologies (Source: Rennings 2000)

5.2.3 Tourism and TIPs

has encouraged the creation and exploitation of some itineraries, as cultural routes, such as "The Routes of the Olive Tree" or the "lter Vitis – Wine Routes in European countries." These thematic routes promote thematic tourism and the protection of cultural heritage through the utilization of typical products (Asero and Patti 2009). The touristic potential of these typical products is higher when they are identified with quality labels and brands that protect their identity and are associated with the endopenous features from the territory where they are produced endogenous features from the territory where they are produced. Today TIPs are part of the heritage in a territory and could provide a special cultural tourism experience. In the last few years, the Council of Europe for Cultural Routes

In the case of the wine tourism it's possible to identify different stages associated with wine production, since the grape plantations and their landscape (for instance in the case of Portugal, Douro is a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage)were the first wine Demarcated Region in the world and several tourists come just to see this particular landscape); to production in the wineries, taste and gastronomy; contact with the farms where the wine is produced and all the environment and experiences provided within rural tourism (Carvalho 2014)

numerous researches. Table 5.1 presents a state of the art of TIPs and tourism. Ohe and Kurihara (2013) suggest that local food production and rural tourism are joint products, and wine is a predominant TIP associated with rural tourism in

Topic	Subtopic	Publication
Local food and tourism	Rural development/ rural tourism	Renko et al. (2010), Sims (2009, 2010), and Vaz et al. (2009)
	Authenticity	Sims (2009)
	Rural cultural heritage	Szlanyinka (2009) and Ohe and Ciani (2011)
	Food tourism	Hali et al. (2003)
	Wine tourism	Hall et al. (2000) and Kim et al. (2009)
	Social effects	Everett and Aitchison (2008) and Brandth and Haugen (2011)
	Rural development/ rural tourism	Renko et al. (2010), Sims (2009, 2010), and Vaz et al. (2009)
	Culinary tourism	Montanari and Staniscia (2009), and Horng and Tsai (2010)
	Organic agriculture and agro-ecotourism	Kuo et al. (2006)
Rural tourism		Bellisle (1983), Ohe (2008), and Telfer and Wall (1996)
Economic effects of local food and	Differentiation of tourism destinations	Haven-Tang and Jones (2006)
tourism	Food consumption by tourists	Kim et al. (2009) and Skuras et al. (2006)
	Backward economic linkage	Telfer and Wall (2000)
	Hedonic pricing approach	Ohe and Ciani (2011)
Economies of scope	Agricultural and rural field	Azzam (1998), Chavas (2008), Chavas et al. (2010), Fernandez-Cornejo et al. (1992), Hartarska et al. (2011), and Melhim and Shumway (2011)
	Agricultural cooperatives	Kondo (1997) and Schroeder (1992)

Source: Ohe and Kurihara (2013)

Theoretical

Nonagricultural field

Chavas et al. (2012) and Proir (1996)

Baumol et al. (1988), Chavas and Kim (2007),

and Panzar and Willig (1981)

5.2.4 Brand and Marketing Linked with Regional Products

owned and operated by a single enterprise (Charters et al. 2011). That is the case of diverse types of brands that do not easily equate with the classic notion of a brand also to differentiate a product which benefits consumers in a way that is more than its functional characteristics (de Chernatony and Macdonald 2003). There are position as the property of a specific brand owner that gives them value. It serves Brand as defined by Kotler et al. (1994) is a name or image to establish a product

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regional, and destination brands). the corporate umbrella, leader brands, and the place-related brands (country,

These territorial brands are not created through consumer orientation but are rather a result-oriented production, as core characteristics of the product depend on the environment (Charters and Spielmann 2014), Regional or local brands are based in one area and have the advantage of association with a region of origin, especially when the region of origin is particularly important as a cue for high added-value products (Van Ittersum et al. 2003).

These types of brands may include products which trade off a region or place as well as products which are situated in a single region (Van Ittersum et al. 2003), like "Douro region." However, the products are not defined by the collective memberships of the regional brand, nor they have to be produced in the region with an indissoluble environmental relationship to it (Charters et al. 2011).

As observed by Perrouty et al. (2006), the region of origin may serve as a cue to link product benefits with a region, and in some situations consumers may prefer to buy those products. This factor is especially true for more highly involved

The theoretical and empirical literature on consumer-perceived brand benefits suggests classifying the benefits according to different dimensions: functional benefit (Sheth et al. 1991; de Chernatony 1993), price benefit (Zeithaml 1988; Dodds et al. 1991), social benefit (Sheth et al. 1991; Ambler 1997; Bhat and Reddy 1998; Long and Schiffman 2000), and emotional benefit (Sheth et al. 1991; de Chernatony 1993; Ambler 1997; Bhat and Reddy 1998; Long and Schiffman 2000). So, the importance of that countries, regions, places, and other geographical entities, that behave like brands, are gaining acceptance and value for regional branding (Papadopoulos and Heslop 2002). There are studies that confirmed that national and other places are powerful stereotypes that influence behavior in all types of target markets.

Methodology

This is a descriptive study where we have used interviews to design a case study. This case study uses a qualitative methodology, based on Yin (2004), to select and analyze information collected by the interviewers and other secondary information sources. According to Yin (2004), case study research enables to investigate important topics not easily covered by other methods. Conversely, other methods cover many topics better than a case study does. Firstly, the case study method is pertinent when the research addresses either a descriptive question (what happened?) or an explanatory question (how or why did something happen?). Secondly, it is useful when we want to illuminate a particular situation, to get a close (i.e., in-depth and first-hand) understanding of it.

According to Eisenhardt (1989), building theory from case study research implies following certain steps. Table 5.2 presents the methodological guide for this research based on guidelines provided by Eisenhardt (1989).

Table 5.2 The process of building theory from case study

Step	Activity	Reason
Getting	Definition of research question:	Focuses efforts:
started	How territorial intensive products promote regional tourism?	TIPs and tourism, female entrepreneurial profile, regional development
Selecting	Specific population:	Local firm that uses local products to
case	Douro Skincare	produce innovative products (managed by women)
Entering the field	Flexible and opportunistic data collection	Allows investigators to take advantage of methods and unique case features
Analyzing data	Within-case analysis	Gains familiarity with data and preliminary theory generation
		Cross-case pattern search using divergent techniques
Shaping	Iterative tabulation of evidence for each sharpens construct definition.	Confirms, extends, and sharpens theory cases
4. #	construct validity, and construct measurability replication, not sampling, logic across	Search evidence for "why" behind builds internal validity relationships
Enfolding literature	Comparison with conflicting literature Comparison with similar literature	Builds internal validity, raises theoretical level, sharpens generalizability, improves construct definition, and raises theoretical level construct definitions
Reaching	Theoretical saturation when possible	Ends process when marginal improvement becomes small

Source: Eisenhardt (1989) adapted

research process. We will use qualitative evaluation methods during the development of the

experiences. The interviewer can pursue in-depth information around the topic (McNamara 1999). Interviews are particularly useful for getting the story behind a participant's

view; general interview guide approach; standardized, open-ended interview; and closed, fixed-response interview. The type of interview that we used was the general There are several types of interviews, namely: informal, conversational inter-

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Table 5.3 Interviewees

London			atlairs	To far flower the second secon
DGESTE - Porto/	2016.07.12	Skype	Regulatory	Susana Cruz
UPTEC - Porto	2016.07.05	Face to face	Brand manager	Marta Enes
Matosinhos	2016.07.05	Face to face	Director/founder Face to face	Mariana Andrade
Place	Interview date	Type of interview	Function	Interviewee

interviews, and Table 5.3 identifies the interviewees. interview guide approach. In annex 1 it is possible to find the guide used in the

ees; however, additional questions were asked during interviews to clarify and/or interviews. We prepared a set of the same questions to be answered by all interviewsemi-structured interviews that contain components of structured and unstructured further expand certain issues. All interviews were audio recorded and useful for the analysis, and we have used

or questionnaire does not allow, and (3) the possibility of collecting many important researcher to clarify some aspects following the interview that structured interview following: (1) the possibility of access to richer information (contextualized through the words of the interviewees and their perspectives), (2) the possibility of the data that can generate quantitative and qualitative information. Among the main advantages of semi-structured interviews, we can include the

The literature review allows proposing the following hypotheses:

H2: The entrepreneurial project using TIPs influences positively regional tourism. H1: Product innovation allocating regional resources, within a smart specialization strategy, contributes for territory added value through entrepreneurial process.

case study. Table 5.4 presents general and specific objectives and hypotheses tested in this

H3: The use of TIPs influences positively marketing brand.

5.4 Case Study

This section presents the case study selected "Douro Skincare."

hups://en.wikipedia.org/wiki/Interview_(research), retrieved on July 29, 2016

Informal, conversational interview – no predetermined questions are asked, in order to remain as open and adaptable as possible to the interviewee's nature and priorities; during the interview the interviewer "goes with the flow."

General interview guide approach – the guide approach is intended to ensure that the same general areas of information are collected from each interviewee; this provides more focus than the conversational approach but still allows a degree of freedom and adaptability in getting the information from the interviewee.

Standardized, open-ended interview - the same open-ended questions are asked to all interview ees; this approach facilitates faster interviews that can be more easily analyzed and compared

Closed, fixed-response interview — where all interviewees are asked the same questions and asked to choose answers from among the same set of alternatives. This format is useful for those not practiced in interviewing.

Table 5.4 Objectives and hypotheses

and the state of t	The state of the s	
General objective	Specific objectives	Hypotheses
Understand how product innovation contributes to the territory	Understand the entrepreneurial process related to product	H1: Product innovation allocating regional resources, within a smart specialization strategy, contributes for
sustainability added value	innovation and added value	territory added value through entrepreneurial process
	Understand how the product innovation is linked to territory sustainability and added value	
	Realize the relation between TIPs and tourism	H2: The entrepreneurial project using TIPs influences positively regional tourism
	Understand how they develop the brand and	H3: The use of TIPs influences positively marketing brand
	their relation with region	

5.4.1 Brief Description of Douro Skincare

which have high-quality standards and meet the required European regulations and through the creation, development, and production of lines of products and brands market demand. Douro Skincare company is intended to act in the area of selective cosmetics

those that give rise to Port wine. nology, enhancing the parallel strand of biological products and raw materials, envithe Northern country emblematic raw materials from the Douro region, especially ronmental sustainability, and social responsibility. Increasing the promotion of the products and concepts, it became a "line of fusion cosmetics" as a result, by valuing Through a business-to-business (B2B) model, it focuses on innovation and tech-

5.4.2 Process of Business and Product Creation and RIS3

noticed that all the cosmetics that were being used belonged to a foreign brand. That buyers' attention. She was not feeling motivated at work at the time due to a commaterials from certain regions, that is, having a value attached, and it attracted the knew some lesser known brands that sold well online and that resulted from raw was when she first identified a business opportunity. The founding partner already uct, and thus a new professional activity came to reality. pany merger, and that was when she felt the need to change and create a new prod-The idea came up when the founder was in front of river Douro in Oporto and

could be developed from raw materials of this iconic territory of northern Portugal As she liked the Douro region a lot, she thought that a range of cosmetic products

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up with the idea of using vinotherapy but innovating the concept. Given the characteristics of the region and its products, mainly Port Wine, she came

using, which resulted in Port wine, including the seeds of grapes. facturers to see what were the raw materials that they would have an Regarding the technical part of the idea, the first step was to contact the manuinterest in

similar process to Port wine, extracting its aroma. then applied in the beer industry. And that was when they thought about applying a of Porto through its Faculty of Engineering. A team of professors had investigated out that part of the investigation was the result of a partnership with the the process of extracting alcohol from beer keeping the aromas, a process that was business and idealizes the cosmetic lines and product development. They pointed whereas another works on the regulatory part, and the founding partner manages the members is currently working on the technical/operational part of the business. tical studies, being the gender just a coincidence and not an option. other and had similar ideas besides the same academic background and The allocation of human resources came primarily because they all One of the harmaceu-University knew each

and an SME investment. they could not get the product done on time and didn't have inventory nor samples) Nacional) funds, and to a microcredit (which helped in the production part because National Strategic Reference Framework, QREN (Quadro de Referência Estratégica challenging, but they managed to overcome this phase after having applied to the first one was financial as usual. The fact of having to arrange to finance, Since that moment, they have come across various barriers along their path. The was very

product, they requested samples in order to decide whether it was really they analyzed not only the budget they had but ultimately the quality of the final bottles would be very expensive, and they needed to overcome this and arose from the company's sustainable packaging requirements was the need to buy bottles with specific characteristics, airless glass bottles; therefore, to buy only 500 wanted for the products. After the first failed experiment that resulted from their own experience, because Portugal, and it was then possible to stabilize the partner. Another obstacle that an international experience in the UK that they managed to find a producer in cal formulas Douro Skincare had created. It was only at the third attempt advanced yet, it was difficult to find the appropriate partners to produce the chemi-Since in Portugal the technology involved in cosmetics production was not very what they they did. and after

ucts for other companies. for the production of new glass bottles, through the development of secondary prodwhen almost half of the glass bottles that arrived were broken. Thus, they had to made in advance. They suffered a setback when they hired a carrier that didn't balance the investment and find the money to cope with the waiting period assure that the glass packaging was properly packaged and transported; In short, the main obstacles are those that arise out of the business plants of the business plants. an that is required that was

to which they managed to return to within a year. but it was also what made the company deviate a little from the concept of It was this business decision that allowed them to cope with the current e expenses, f D'Vine,

paid for, and made the development tests, they started with four products, only to work as sampling, and then, when they contracted with the first distributor, with products, and they were left with a line of eight products. whom they combined special conditions, he financed the production of four more So, instead of producing the ten products that they had developed formulas for,

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organic wine although not exclusive for their production. They use organic grapewith the environment is very important for the brand concept and consequently a seed oil extract that is made in an industry that manufactures ingredients for cosmetstrong response from the market, which makes these options more difficult to folcharacteristics. But the environmental sustainable allegation doesn't have, yet, a solutions were found, from the wine production and fragrance used to the packaging balanced with a profitable perspective of business management. Therefore, some concern in acting accordingly to the natural environment preservation are followed Even though their products aren't exclusively organic or bio, the product correlation ics. Although there is always waste, the grapes are also used in wine production. low. In spite of that reality, the company uses grapes from organic production and

additional guarantee of the quality of the service provided and value added for the sive, for example, the fact that the fragrance of Port wine is certified by Ecocert. The final price of the products. But this process of certification it is much more expensive, reflecting its costs in the recognition, in trust, of the products of its operators by many millions of consumers. worldwide, which, in addition to its capacity and know-how, makes use of its logo, Ecocert Group is a leader in the control and certification of organic production lenge as there are some aspects of sustainability that make the product more expen-As there are no cosmetic factories in the Douro region, they face another chal-

throughout the shelf life. from the air and light, the packaging itself contributes to the stability of the product opaque, thus reducing the number of preservatives to be added, and if it is sheltered As far as the packing is concerned, the bottles are made of glass, airless, and

the product go up making utilization rate practically total. because the bottle has a plunger and airless pump, which is not aerosol, that makes 100% recyclable. They also allow using 95% of the amount of product inside The bottles also have an Ecocert certificate, and the glass and plastic used are

it comes from sustainable forests, and their serigraphy is not made hot, which would Portugal that has a cold stamping machine, which immediately increases the price be polluting, but rather it is a cold carton stamping, and there is only one printer in D'Vine's carton has the FSC (Forest Stewardship Council) symbol that certifies

> 5 Product Innovation as Territory Sustainability Added Value: The Case Study... of the packaging. There is no extra printing regarding the manufacturer's instruc-

tions for use, which are printed on the inside of the carton package.

latum, and silicone because they are cheap and completely inept. well. As for the formulation of the product itself, they tried to avoid petroleum products although petrochemicals are widely used in cosmetics, such as paraffin, petroleum and different beauty. There is a real concern with sustainability in the production of the cosmet

extracts, the product increases in price. If a company replaces petrochemicals with more active ingredients or vegetable

Take an exfoliant, for example; there is a current controversy because the exfolianting balls are responsible for its abrasive effect and many of them are plastic polymers that can be bought, of any type and diameter depending on the level of abrasion that is intended. But this is changing; the UK was the first country to abolish these spheres, so our entrepreneurs tried to make an exfoliant without these spheres replacing them by a powdered walnut shell or powdered grape seed and put a film to mitigate the abrasion, getting a more enzymatic rather than mechanical exfoliance. tor. This process also makes prices higher.

5.4.4 Realize the Relation Between TIPs and Tourism

This product is manufactured with local raw materials, such as biological Port wine, bottled, certified, and sealed, thus making the Douro brand completely associated with the Douro Skincare brand. The name of its main line of products D'Vine derives from Douro (D) and its vinc.

would establish a stronger relation with the region besides the landscape." One of the entrepreneurs said "we use local raw materials, to establish a direct relation with the Douro region. And if we used local products in the SPAS, we would aerablish a circumor relation with the region becides the landerage."

However, another entrepreneur revealed her reluctance in limiting the product to the region, when she said, "we selected Ana Moura (Portuguese well-known Fado singer) as the brand ambassador. She refers that they wouldn't want that DVine became just a line of regional products. They intended to promote a sophisticated and modern line of fusion cosmetics using Douro's references as an image capable of influencing behavior in a certain type of target market, women with buying power that relates to the uniqueness of the product and the region it nortraits that relates to the uniqueness of the product and the region it portraits.

from a pipe of an autochthonous grape of the Douro." The product is intended to be much more than a cosmetic that uses an extract

They use Port wine and grape extracts due to the fact that these two components are certified products subjected to a rigorous quality control; they are not handmade products. The products are developed through an R&D process that verifies in all phases of their development and production the quality of the product and of the raw materials with suppliers materials with suppliers.

Concerning the impact of Douro Skincare in local economy, they do not have enough data to register the impact of the firm on local economy yet; however they reveal some perceptions due to their participation in international fairs and events

also promoting the Douro region through their products when referring to the raw materials' origin and the beauty of the territory. know where the Douro region was and how they could visit it. This way, they were curious about the cosmetics made with grapes and Port wine, and they wanted to that took place in several countries (France, Brazil, Japan, etc.) where people were

such as soaps or candles, which the company is considering to produce in a next and pharmacies also request products that are more directed to the tourist market, phase, but for the moment, the company promotes a structured line of cosmetic hotels in the region, to provide amenities from their lines. Sometimes local hotels hotels, and they have already sent samples to an international hotel chain that owns approach of the firm is broader. They have already established partnerships with Having the Douro as a brand could create more synergies; however, the market

and they couldn't register the brand due to the barriers associated with "protected acronym for human DNA, but they were just allowed to use Douro Nuclear Aroma, barriers. They had some problems in using the brand Port wine. Initially, they wanted to use the label PORT WINE DNA, Douro Nuclear Aroma, playing with the denomination of the region" that limited the disclosure Nonetheless, the association with the Douro region as a brand also creates some

2015, they sold 100,000 Euros. The figures of 2016 were not closed by the time of the interviews yet, but they expect to have tripled that value till the end of the year. In what sales are concerned, so far and since the beginning of September of

5.4.5 Understand How They Develop the Brand and Their Relation with the Region

ing definition. The uniqueness and product differentiation are essential for a clear consumer, in spite of the business responsibility in the product image and positionconcept. It's a B2B2C business in which the privileged relation and contact are with normal elements. positioning and directed to a chic and demanding woman that is not subdued to distributors and intermediaries, and the brand has little connection with the final The marketing strategy of Douro Skincare is based on the definition of the brand

phenols as anti-aging substances and that resveratrol is regenerative so they wanted to find an advantage because they already knew that people associated grape polyharvest to identify the lines and the age target of the creams, for example. They had the fusion cosmetics follow a specific glossary related to wine using words such as wine aromas and colors added to the products and their packaging. Even the lines of attractiveness that the products intend to offer along with the uniqueness of Port wine for the obvious relationship between the natural beauty of the region and the The products also have in its brand the association with the Douro region and its

> to make a line that added something else since they thought that vinotherapy no longer brought innovation,

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characteristics of the soil add character and distinction to the raw materials they use is an unfavorable soil and therefore only fortified plants could grow there. have to build terraces to control the thermal amplitudes and the incidence of li soil that is not favorable to the development of plants; otherwise, men wou in the cosmetic lines and therefore to their products as well. These grapes and this wine come from the Douro, a harsh environment, These from a ıld not ight; it

medicinal perspective, thought to be prepared to protect several skin types. macies as selective cosmetics and not to derma cosmetics despite using pharmacies as retailers. The difference between the two is that the latest is linked to a medicinal prespective thought to be The completion of the differentiation of Douro Skincare is not made through price since they are not capable of mass production and consequently they try to link their products as selective cosmetics and not to derma cosmetics despite using

to biological raw materials, but they are not mass market products. mainly through natural and sustainable arguments, adding performance ingredients The selective cosmetics intend to offer beauty, in a healthy way, in this case

extracts; they also have performance ingredients such as Enzyme Q10 and perfumery, which have a performance on the skin. uronic acid that are cosmetic top sellers, more associated with cosmetics rather than have gold in the composition, although they have the preponderance of Douro, the vine, the wine, and the use of grapes, but they are not. Some lines Sometimes their products are mistaken by biological cosmetics because s even of the plant

5.4.6 Future and Challenges

Portugal and the internationalization of the company and its brand. Douro Skincare has two major goals for the future which are the sales increase in

distribution, consolidating the business value chain. They intend to upgrade the national market by having visibility and a strong

the Middle East countries, but also Japan, Brazil, or the USA. tries that they have to adapt to and the cultural issues they have to incorporate into the products in order to be accepted. These concerns are due to the goal to export to pany, but they are aware of the differentiation between the regulations of the coun-To export is a very important and determinant feature for the growth of the

For example, during their visit at a fair in Dubai, although people appreciated the presence of gold in the formulas and the wine aromas, the Muslim religion does not allow wine consumption, and their products claim the aromatic profile of the wine, Port wine. In this context, they are considering having a line that explored the Douro's almost and not the Douro's almond and not the wine to cover these markets.

Not only market diversification is essential but also product variety. They are already testing some new products to complement the actual offer with the constant concern of listening to the market desires and needs. The company is only 3 years and it is still consolidating its market position.

S Discussion of Results and Concluding Remarks

mostly because it has a very strong link to natural resources of a region. the product in itself has a green positioning as it uses some organic resources and sumer recognition, mainly in their product sales or business income; nevertheless, as an environmentally friendly product. Maybe Douro Skincare hasn't felt this concosmetics with a green market positioning in spite of their nonconsumer recognition that gives origin to a product innovation in the sense of a new form of producing there is strong investment in an innovation process based on a technological process company and its products within the smart specialization strategy, it is clear that In terms of the research work and comprehension of the innovation factor of the

approach that dispels the association with regional tourism. in the literature review. As the discussion provided by the case study concludes that Douro Skincare is directly related to Douro trademark, however, it follows a global but also seeks to reach the diverse dimensions of the innovation process, as described the process of production definition due to a new application of a known technology The innovation process described not only has a technological improvement in

and a greater biological variety of the grape varieties perfected here. Alto Douro is those that present greater scale, greater historical significance, greater continuity, dens," according to the expression of Jaime Cortesão (Portuguese writer). In order to cultivate the vineyard on the slopes of the Douro and its tributaries, men witnessing the continuous work of transforming the mountains into "hanging gar-The landscape of the Douro vineyard is today a complex and dynamic architecture, more recently, by vineyard leveling and "up" forms, susceptible to mechanization. had to produce soil and build terraces, traditionally supported by shale walls and, thus a striking example of landscape illustrating different stages of human history. As announced on the company's website, the regions of mountain viticulture are

relation with tourism and regional development due to their market target. This firm and Kurihara 2013; see Table 5.1); however, Douro Skincare doesn't have a direct tion with the Douro could influence indirectly the promotion of the tourism in this developed with the rigorous process and intensive R&D. Nevertheless, the associaaims to achieve global markets with a product with high-quality standards and Literature review underlines a positive relation between TIPs and tourism (Ohe

a stronger relationship to develop between these allegations and the consumers consumers mainly in the sustainable perspective, but the mental connection to the tional connection with the splendor and natural environment of the region. There is may call the business and its products clearly trying to take advantage of a well-Douro region and its two most important assets: beauty and nature. In this sense, we region is already evident. As argued by several authors (e.g., Van Ittersum et al. known region, linked to the main raw material used and a strong mental and emo-2003; Charters and Spielmann 2014), we may observe a direct connection with Yet, it is possible to find a relationship between Douro region as a brand and the

> H1: Product innovation allocating regional resources, H2: The entrepreneurial project using TIPs influences territory added value through entrepreneurial process 113: The use of TIPs influences positively marketing within a smart specialization strategy, contributes for positively regional tourism Valid Reject Valid Validation Ohe and Kurihara (2013) References (2014)Van Incrsum et al. (2003) Paiva and Proença (2011) Charters and Spielmann CCDRN (2014) Rennings (2000), and

already evident, mainly in the sustainable perspective, but the mental connection to the region is

Systems Environment are also addressed here, but the connection is not so strong smart specialization axes of the North Region of Health and Advanced Production policies defined for this region in terms of agro-environment. We believe that the Region of Portugal. This company and its products are in tune with the strategic with the region and its growth and development concerns and the RIS3 for region is also addressed here since there is a clear impact of the business With all this in mind, we also may add that smart specialization strategy of the the North activity

answered by the business activity, strategy, and positioning of Douro Skincare (see ics such as internationalization that, also, could provide more insights in Table 5.5). Further research aims to develop a broader study considering other topvalidate the full impact of the business activity. So, we may conclude that two of the three research questions were positively

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Chapter 6

Organizations Drivers: The Role of Higher Education Entrepreneurship and Innovation Ecosystem's

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Abstract Extant empirical entrepreneurship studies recognize that the main challenge of emerging economies is transforming into entrepreneurial societies. Following this perspective, the involvement of several actors (government, universities, entrepreneurs, investors, etc.) is required in this evolutionary process. In this regard, emerging economies' governments promote the configuration of entrepreneurial ecosystems to achieve this transformation. Even in previous insights, the role of each actor is an interesting attention for academics and policy makers. In this sense, this chapter tries to provide a better understanding about the role of higher education organizations as driver of entrepreneurship and innovation ecosystems in Mexico. Our analysis provides evidence about the relevance of incentives in configuration of triple mission of Mexican higher education organizations as well as their lower participation in the involvement of innovation and entrepreneurial

Keywords Entrepreneurship • Innovation • Higher education organizations

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