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Productive Matrix Change in Ecuador and the Petroleum Crisis. Case Study: Entrepreneurs and Productive Associations

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ABSTRACT

The worldwide oil prices reduction from USD 109,45 in 2012 to USD 26,5 in 2016 (OPEC, 2016) threatens economic crisis in those countries, whose economies are still directly dependent on the exploitation and exportation of oil, as is the case of Ecuador in South America. This paper aims to describe the public politics set as contingency measures in the social economy sector, taken to adjust to the economic impact that can be foreseen. In this document, we refer to the 2013-2017's objectives of the Ecuadorian development national plan: 8, 9, 10 and 11th, and present an analysis of interviews applied to entrepreneurs and community association leaders, in connection with the national productive matrix change implications. This study describes also, the productive settings that urban entrepreneurs and farmers' associations implement in 2 geographical zones (Manabí and Esmeraldas) on the Ecuadorian coast, which has agricultural, tourist and fishing potentialities.

The results of this work, ratify that "productive associations" set of strategies for the social capital development in an organized group (Moran, 2010) and the theories of economy development of Basu, (2000) and Moon, (2014). We also consider that the productive matrix change process in Ecuador requests of urgently relevant adjustment in the producers' profiles such as: the strengthening of ICT usage, and the addition of the sustainability vision in their new productive projects.

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1.0 Introduction

In Ecuador, there is a high expectation in that "rural producers' associations" and "urban entrepreneurship initiatives" do contribute to minimizing the economic impact that worldwide oil price reduction (from USD 105.00 in 2012 to USD 20.00 in 2016) generates as the result of this oil dependence economy system.

In 2008 the new Constitution of Ecuador (Republica del Ecuador, 2008) implemented a public politic framework in order to diversify its sources of income and to eliminate the oil exploration and exportation dependence. The most important national objectives were: the "change of the Ecuadorian productive matrix", the "introduction of the law for the popular and solidarity economy" and the "investment in education" in order to develop its competence capacity level.

In the 2012 Millennium Development Goals (MDG) report, it was shown a remarkable progress made by countries, but those MDGs are still achievable; and in order to reach those goals, it is still considered necessary the support from the local-national governments, the international community, the private sector and civil society (United Nations, 2012). In Latin American Countries (LAC), a low gear remained in the first half of 2013, there was a large decrease in activity in Mexico, Brazil and Peru. In Ecuador, the population is waiting for an economic-political package that the government may implement in order to face the oil price crisis, which could include increasing the added value tax (IVA) and the lowering of the deposit reserves.

This research is presented as context a chronological review about the most important facts that affected the Ecuadorian economy during the 1970 - 2015 period. After that, we present a review of related literature published about: theories of dependence and development, the model and leadership associations, and the human capital. Among the most relevant authors considered in this work are: Moon (2014), and Basu, (2000) who discuss to theories of development. The results of the research are presented in a strategic format as a route of work that we propose be applied by the rural associations for their competitiveness strengthening. They concentrate in the fields: matrix of organization weaknesses and strengths, motivations of entrepreneurs, business conditions and ICT usage for marketing.

Our motivation is to contribute to the discussion on the dependence of Ecuador's economy on oil exportation, to determine the rural associations' current state of maturity in Ecuador, and to help the rural associations to advance in their "national productive matrix change" process. This research answers the questions: What are the new competences that leaders require to manage efficiently their rural associations and entrepreneurs? What are the ICT contents to be added to the training plan for entrepreneurs? How to consider the commerce abilities.

1.01 Problem and Context

After 200 years of colonization in Latin America, Ecuador emerged as a new nation with relevant social inequities characterized by an economy system based on the production of commodities for the tribute to the Spanish Royalty. Years after, a republican system of government was stablished, but the limited access to technology became a way of dependence that persists today.

In this young nation, the oil explorations arrived during the 70s with the promise of richness and a better future for its population. A military dictatorship government took place in order to keep the control and security in this country. During the 80s a plebiscite got the democracy back to Ecuador and a military conflict between Ecuador and Peru took place for territorial reasons. This historic conflict brought death to both countries and the increase of their international debts, in name of the sovereignty.

This weak democracy nation faced the growth of corruption, and power abuses from the new highest government positions against public workers, who became rich by the exploration and exportation of oil, bringing about a deep poverty to the civilians, whose competitive abilities were not strengthened during decades.

The impact of the *El Niño* Phenomenon destroyed the highway system, and generated losses from the export of coffee, bananas and cocoa cost USD 640 million (5% of gross domestic product - GDP). In January 1983, 1.200 billion dollars of payments on foreign debt that had become due were renegotiated between November 1982 and December 1983 (25% of the Ecuadorian external public debt). For that reason, a strong economic repression generated the appearing of a revolutionary guerrilla group self-named Movement *Alfaro Vive Carajo!* which was declined in the 90s. That international debt was also the cause of neoliberal policies imposition in Ecuador during the 90s and the *El Niño* phenomenon which caused destruction of the agricultural production sector and public schools, roads, etc., in 1997-1998.

The government gave loans close to 200 billion *sucres* (currency in Ecuador until 1999) for the development of medium and large national industry through the National Finance Corporation (CFN). The international commerce limited to the oil exportation, began to introduce the diversity of income by exporting agricultural commodities such as coffee, cocoa and bananas, and later exports of shrimp and exotic flowers but, this industry development was not enough and very soon, high inflation rates limited even more the productive development by making income production and industrial progressive technologies unachievable in coherence with the negative impact of the theory of the "endogenous growth" in which the slow model of development, reduce the investments in human capital (education), infrastructure, or research and development (World bank, 2000).

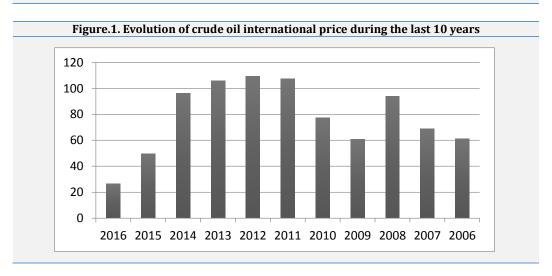
The hegemonic imposition of economic packages generated unemployment and mass protests came to overthrow governments. The high rates of inflation, which rose from a rate of 2,500 to 25,000 sucres per dollar

of United States put in crisis the national financial system. This led to a *feriado bancario* (No Banking Activity for a week) in 1999. This economic phenomenon caused the bankruptcy of financial companies and limited further national development. This economic crisis was the reason for 1 million Ecuadorians migration to Spain and Italy especially, during 1995 and 2010. From the year 2000 until 2010, the Ecuadorian migrants in Europe sent money to their families in Ecuador. These transactions ranked as the third for source for external income, which was declining in subsequent to the "family re-union law" implemented in Europe from 2008 which allowed the entry of relatives of migrants to Europe.

"... Pan, techo y empleo - food, houses and employment ... La fuerza de los pobres - the strength of the poor people ... hasta la victoria siempre - forever victorious" more than, presidency election slogans, they represent economic models stablished in Ecuador where, in order to obtain the maximum income growth, the "environmental considerations were left to languish on the sidelines; the standard of living was often allowed to slide; large inequalities between classes, regions, and genders were ignored; and poverty was tolerated more than it should have been" (Basu 2000, p. 64) but, after almost 10 years of oil international high price, such conditions changed as it is presented in the following board and graphic.

Table 1: Table No.1. Crude oil international Price Period 2006/2016

Year	Price
2016	26,5
2015	49,54
2014	96,29
2013	105,87
2012	109,45
2011	107,46
2010	77,38
2009	60,86
2008	94,1
2007	69,04
2006	61



Source: http://www.statista.com/statistics/262858/change-in-opec-crude-oil-prices-since-1960/

Part of the crude oil high price until 2014 was used for the reconstruction of the modern national highway system, to improve productive initiative and the fostering of the transformation and exportation of agriculture products, the improvement of access to internet, public education and health service. So, Ecuador went from 3.500 km. to 46.000 km., of optical fiber Internet connectivity, reducing the digital access gap from 32% in 2013 to 14% in June of 2015 (Republica del Ecuador, 2015).

The investment in education increased from 2.5% of GDP in 2006 to 5.5% at the end of 2011 (Republica del Ecuador, 2013). The public basic education was integrated to health, nutrition and production. Training of officials and teachers took place as a national literacy campaign and a control of the quality of higher education was implemented, financing international training programs for talented professional and professors. According to Rocio Blanco (2013), the Ecuadorian Ministry Education has as a goal to offer the population quality education in order to deal with the differences in the community, in order to reach better levels of competitiveness.

The national development plan for 2009-2013 (Republica del Ecuador, 2009) promoted the reconstruction and development in this country plus, the usage of US dollars as currency in Ecuador, created a new "American dream version" in South America, where Peruvians, Colombians, Venezuelans and Bolivians came to Ecuador looking for a place of work and live.

The following are the "new productive matrix" goals that we consider as the most relevant for the productive development in Ecuador: "8) to consolidate a social and solidary economic system, sustainably. 9) Ensure decent work in all its forms, and 10) to promote the transformation of the productive matrix" (Republica del Ecuador, 2009). But, the reduction of oil prices worldwide put these developing country's projects, which had begun the process of the reduction of the oil market dependence, at risk.

The project is of fundamental importance in developing global economies where innovation is a specific function of entrepreneurship, whether in an existing business, a public service institution, or the beginning of a new adventure of one individual (Drucker, 1985). Changes in the global oil market put at checkmate small entrepreneurs in Ecuador which activates them in their capacities innovative, flexible, dynamic, able to take risks, creative and growth-oriented. Entrepreneurs are faced with a new scenario drawn by the technological development, the establishment of global trade flows, and demands for the installation of initiatives resulting in a new competitive landscape characterized by higher degrees of uncertainty, ambiguity and risk. Which is due to become increasingly complex to get to know the needs of potential customers and users, and manage risk aspects mutate making the business outlook fragile. The access to agriculture products market, the use of ICT in the business new conditions, and the entrepreneur motivations are some of the fields that the new profile requires in order to become more competent. From the observation of an increased competitive rate and speed of change in the economic outlook, it has been argued that the need for even large businesses and corporations to become more enterprising and persevering needs to increase (Perace and Robinson, 2005)

1.02 International Dependence Models and Sustainability

The growth of international capitalism and multinational corporations caused poor countries to be further exploited and more dependent on developed countries during the end of the century XX. Poor and developing countries as is the case of Ecuador, therefore could not expect sustained growth from that dependence in a product as oil that impacts also over the environment. As Basu (2000) commented "the standard of living was often allowed to slide [...] and poverty was tolerated more than it should have been" (Basu, 2000, p. 64)

In 1990 the "Endogenous growth or the new growth" theory emerged to explain the poor performance of many less developed countries. That slow model considered technological change as an exogenous factor but, that process has not been equal for every country and nor has it been exogenously transmitted in most developing countries (World Bank, 2000).

According to Ferraro (2008) about the international economy dependence theory, developing countries should end it by breaking up their relationships with the developed countries, but it raises the question: how can poor countries finish their commercial relationships with the rich countries when, they are the source of the limited income? It refers to a change of the economy structural model that includes the increase of support and dynamic cooperation among the other developing countries (autarky policy). Those countries that often experienced stagnant growth, but decided to re-open their economies to rich countries, as in the case of China, India and Tanzania (Ferraro, 2008; Todaro & Smith, 2009). In other words, the success results of industrialized economies such as Taiwan, Hong Kong, South Korea and Singapore are the result of the policy of emphasizing trade between poor countries with advanced industrial countries that was applied during the 1970s - 1980s (Ferraro, 2008) but such goal, induced nations to focus on the rapid growth of national incomes leaving as pending the environmental management (Todaro & Smith, 2003). According to Kates et al. (2008) the debate about the condition of development and sustainable countries seeks to answer the following two questions: "What should be sustained" and "What should be developed"?

Thampapillai (2002) affirms that, environmental economists concerned in the long-term neglect the environmental assets is not warranty of the durability of the economic growth. In contrast, Meier (2000) argued that international dependence model is not the result of the predatory activities of the developed countries and the international agencies, in fact, its origin is in the same heavy state intervention and different forms of corruption presented in the developing countries. He added that new growth models therefore promote the role of government and public policies in complementary investments in human capital formation, and the encouragement of foreign private investments in knowledge-intensive industries, such as computer software and telecommunications. The elements of the sustainable development aims are economic prosperity, social equity and environmental protection which improve the quality of life in a comprehensive manner. This allows the integration of economic, social, environmental and cultural aspects which replace the market work for the economy or capitalism interests (Skousen 2007).

Those elements must be integrated in a harmonious manner to enhance the intergenerational "well-being" (World Bank, 2002). The modern nations measure their standard of living and quality of life focusing on the quantitative and qualitative aspects: health, education, environment and material well-being (Berenger & Verdier-Chouchane, 2007). Also, "a country's resource endowment and size, its government's policies and objectives, the availability of external capital and technology, and the international trade environment" (Todaro & Smith, 2009, p. 120).

The financial crisis had a stark but varied effect on Latin American countries. The economies of major oil exporters like Venezuela and Mexico were buffered as prices rose through the early part of 2008. The oil price slump during the second half of the year had the reverse effect. Brazil, Argentina, and Ecuador were beset, to a lesser degree, with similar problems. Venezuela was forced to reduce its regional spending, which had been made possible in large part through commodity exports. Meanwhile, equity prices fell across Latin America as hedge funds and other institutional investors cashed out of investments in emerging markets. The region's economies were dampened more generally by declining import demand from the world's leading economies, including the United States. Some Latin American countries, perhaps most notably Argentina, also faced severe inflation problems and saw their sovereign debt ratings lowered by ratings agencies. But fiscal reform in some countries--Brazil, Colombia, Peru, and Chile--put them in far better shape to weather the crisis than they were during the emerging markets crisis of the late 1990s. On the international stage, Latin American policy priorities were scattered as of early 2009. Ahead of the April 2009 G-20 summit, the three Latin American countries that attended spoke out on different policy points. Argentina urged a relaxation of some IMF rules. Mexico pushed for trade openness, particularly given simmering trade disputes with the United States. Brazil, experts say, sought to establish its position as a leading voice for the developing world.

2.0 The entrepreneur and the rural association

The terms entrepreneur and entrepreneurship are newly used in the Spanish, arising from the translation of words Entrepreneur and Entrepreneurship (Filion, 2011). For Drucker, (1985) entrepreneur is a person who demonstrates competence to visualize, define and achieve objectives. The entrepreneur must include at least six elements (Filion, 2011), those are: 1) innovation 2) recognizing of opportunities, 3) moderately risky decisions taker, 4) leading to shares, 5) efficient usage of resources and 6) capability to add value to the products and services.

Drucker (1985, p.150) suggested that an entrepreneurship should be analyzed by the type of activity that he or she performs. Some of those activities should be defined as innovation, and they are also, indirectly observed by the industries (Ireland, Reutzel and Webb 2005; Vanderwerf and Brush 1989). Also, Vanderwerf and Brush (1989) noted the world "community" in the industry context is commonly used as a reflection of a work made by a group of people. They noted the importance of the study of high-tech firms because, they generate impacts on innovations. However, it is undeniable that elements such as commitment established through the application of (OCQ) - Organizational Commitment Questionnaire (Porter and Smith, 1970), and the entrepreneur education level, were considered as individual variables but, these can affect to the enterprises performance.

Psychologists and economists such as Chell, Haworth, and Brearley (1991) think of entrepreneurs as those individuals who are alert to business opportunities. They are being proactive rather than reactive. They are always seeking for opportunities to generate innovations, they are people of high imagination, people with ideas of improvement. They are agents of change with capabilities to face difficult challenges. They are people who take adventures and risks, manage him/herself to adapt strategies and financing for their ideas. An entrepreneur is able to generate their own employment. It has been assumed that they are individuals who possess a high level of internal locus of control and capable of taking their own destiny.

The personality of an entrepreneur has features like high need for achievement, self-confidence, humor (internal locus of control), risk takers and personal values. Beugelsdijk and Noorderhaven (2005) affirm that entrepreneurs are more individually oriented than the rest of the population. Blanchflower and Oswaldo (1990) and Blanchflower and Meyer (1994) argue that the vision of the entrepreneur is one of the factors influencing the probability of detecting the opportunity of a business. Blanchflower and Oswaldo also suggest that entrepreners are ready to achieve their self-employment. They were hostile as a child with others, but they do not attack, but are anxious.

The internal locus of control (MOOD) was also occasionally tested as a determining element of achieving self-employment (self-employed) in consequence, they are capable of taking charge of their own future. This is commonly associated with motivation or action which promotes entrepreneurial self-employment. McClelland (1965) in their initial research about the personality as a self-employment determined that entrepreneurs are characterized by the desire to work and a high need for achievement.

ICT "offers the opportunity to create flexible environments for learning, helping to eliminate the time and space limitations. [...] Learners can develop abilities and acquire new competences" (Cabero, 2005b, p.80-81). "ICT supports people to work in cooperative way sharing information and interacting" (Cabero & Barroso, 2016, p. 32). The term "leadership" refers to "the capacity and ability of a person to lead a group, and influence the behavior and motivation of members to participate in an orderly and voluntarily way, expecting to achieve the goals and objectives that have been proposed". The "Association" is considered by Rosales (1997) as a strategy that promotes productive competitiveness. This is the summation of interdependent individuals without the condition to solve their own problems by themselves but who have the desire to collaborate and help each other. The Association promotes participatory work where each member has willingly decided their integration; and together they seek to achieve short-term objectives of common interest such as: acquisition of raw materials, access to credit, research and technology development. The resources of rural communities that have enough suitable land and water are enhanced through community association supported by networks within and outside the community.

Producer associations enhance growth initiatives business focus and more stable relationships generated in time (Valdez, 2007); and their own social dynamic power capabilities of innovation and technology development, to access alternative sources of financing and reducing production costs. Meanwhile, Colmenarez and Delgado, (2003) define the partnership as a strategy that enhances the capabilities of an organized group; and it becomes a requirement for survival of the majority of farmers' ventures. They are social spaces where relationships of trust, reciprocity and cooperation emerge; and which constitute intrinsic motivations that keep the dynamics of human groups (Morán, 2010). The Food and Agriculture Organization (FAO) in its categorization of popular organizations, defines "associations" as the local, community, rural and grassroots organizations; as formal or informal, voluntary, democratic, social groups focused on the idea of development from the bottom up. This participatory mechanism is used for obtaining credit, inputs, training and other services promoting the welfare of its members.

Colmenarez and Delgado, (2003): Valdez, (2007); and Morán, (2010) claim that associations are a tool that contributes to participatory management of sustainable socio-economic initiatives; and spaces are dynamics that requires all its dimensions serve for identifying and better understanding of their role as agents of social development.

Farmers' associations gain momentum in Latin America since the 90s, becoming models of integration and participation in the rural area; whose first benefit was working to enhance access to basic services such as education, health; and then access to financial services and credit, production technology and machinery, and agricultural input packages. In 2000, Ecuadorian producers who wanted to be benefited from development projects had to be members of an organization or to be part of a legally constituted association; thus, they could have access to productive credit and for the development of non-traditional production clusters and access to associative markets. In 2010, participation and democracy were essential for the decision-making in the government associative components. However, other studies presented at the FLACSO Congress 2015 in Quito revealed that the highest priority of farmers' organizations were focused on the economic aspects, while their social objectives were relegated to a second position and cultural issues were presented, but in minority.

Meanwhile Dini (1996) refers to a process called "integration" through which people join forces and capabilities to achieve competitive advantages. Colmenarez and Delgado, (2003), consider that associating is a collective strategy that enhances the performance of activities that are required for the survival of rural enterprises; meanwhile, Valdez, (2007) indicates that the common objectives pursued by associations are related to the

acquisition of raw materials, generating a more stable relationship in time with activities such as research in innovative production processes, the development of technologies to help reduce production costs, and incrementing the access to sources of formal and favorable financing.

Currently, the partnership model is threatened by the lack of cooperation between partners; and above all, lack of confidence in their leaders, and generated effect is that the members of the association do not want to assume the role of leaders because being the leader of the producers is time consuming, and it exposes their personal image to the community; plus, they have to assume transportation costs, etc.

3.0 Human Capital

Economists included in the human capital, the categories education, self-employment experience, experience in work with decent wages, and age. The model of Lucas (1988) for human capital promotes the ability to manage and measure the growth of the trend to self-employment. A high level of education could facilitate the entry of large wage sectors rather than generating their own work but, studies of Evans and Leighton, (1989) and Bates (1990) agree with the hypothesis that, those having a high-level of education care more about their own firms than, those with low education level.

Very low and very high levels of education have a strong relationship with entrepreneurial activities. Another feature is the experience as positive relationships between self-employment and work experience that has been demonstrated by Schiller and Crewson (1997) who, argued that the work experience is positively related to positive outcomes for men and self-employment but, it has been negative for women. Meanwhile, Evans and Leighton (1989) found that the probability of self-employment income is independent of the age or experience during the first 20 years of employment. About the education in adults, Bosio affirms that, they expect every new learning have immediately application to the real life, and for that reason, it is necessary to warranty that function in every activity of learning; otherwise, adults will not acquire new competences. (Bosio, 2011, Pp. 41-42). Moran (2010) in the regarding of the competitiveness explains that, they are strategies to develop the capital stock from a group. This is represented in relations of trust, reciprocity and cooperation; and Putnam (1993)) quoted in MIDEPLAN (2003) defines the term "social capital" as those "aspects of social organizations such as networks, norms and trust that facilitate action and cooperation for mutual benefit" (p. 22).

The IICA Inter-American Institute for Cooperation on Agriculture (2006) indicates that the competitiveness of the agricultural production system depends largely on the ability of farmers to produce for the relationship and partnership between the actors. As a strategy, this allows producers and entrepreneurs to accept and adapt to economic and market changes that occur permanently in society. In the case of Ecuador, there is the Law of Popular Economy and Solidarity (Republica del Ecuador, 2012), which proposes an alternative development, enhancing the access of vulnerable groups to the formal financial system, and related services in the country. At the same time, the change of production model raises challenges of competitiveness, efficiency and innovation such as access to special niche markets, financial sustainability, and addition of value to traditional products; in such process the use of ICT, management principles, motivation strategies and sustainability vision make possible to improve entrepreneurs and farmers competitiveness capabilities.

To reach prosperity, countries need skilled and educated workers. The challenges of poverty eradication, dealing with climate changes and achieving truly sustainable development in the coming decades instruct us to act together. With collaboration, leadership and investment in education, we can transform the lives of people, the economies of our countries and the world at large (Moon)

4.0 Methodology

Using the qualitative method of research, 6 agriculture associations were studied during the period 2014-2015. They involved 180 men and 70 women producers in ages between 30 and 55 years. Three of these rural associations are located in Manabí (*Montubio* [countryside] population) and the other three entrepreneurs' organizations are located in Esmeraldas (Afro-Ecuadorian population) by the cooperation of PUCESE University.

The techniques applied were focal groups and deep interviews, in order to obtain information about their weakness and strengths competitiveness factors. (2 focal groups in each association). The categories studied are:

Table 2: Matrix of organization weakness and strengthen				
Categories	Sub categories			
Commerce	Marketing and commercialization			
Human resource management	Leadership Adaptation to the legal change, normative framework Leadership and gender equality Intergenerational and intercultural participation			
Production: food safety and Transformation	Capacity for processing raw materials and challenges around productivity Services supply Agricultural production systems Agricultural production systems			
Access to financial system	Autonomy for financial management Access to the financial system, credit			

5.0 Results

The data obtained in the interviews was processed according to the following subcategories

Table 3: The new peasant profile for the productive matrix change in Ecuador			
Sub Categories	Action Plan		
Marketing access and Capacity for	Training for effective sales, record sales, billing, etc.		
processing raw materials	Access to special markets.		
	Open to productive technology changes.		
	Use of ICT for market access.		
	Capability for addition of value to agricultural products.		
Leadership and gender equality	Participation in democracy		
	Opportunities access with gender equity.		
	Presentation of financial reports to the association members.		
	Participation of every partners without any kind of discrimination.		
	Communication and easy accessibility of every member to the leaders.		
Adapting to the laws and	Knowledge of the new laws related to the production activity.		
regulatory change	Capability to apply the laws and new procedures and regulations.		
	Use of ICT for the access to regular information and apply the procedures.		
Vision of sustainability	Openness to sustainable technologies.		
	Compromise to the rational use of natural resources.		
	Capability for the production certification.		
Management and support of ICT	Administration with technical capability.		
applications	Administrative structure.		
	Take of decision based on administrative principles.		
Access to the national financial	Openness to the financial advising services		
system, credit.	To improve understanding of accounting information		
	Tax payments capability.		
	Knowledge of the banking services and procedures on line.		
	0		

5.01 Entrepreneur's motivations

Regarding the motivations of entrepreneurs, 96% of surveyed participants, rated as very important the desire to "improve their income". This was the most frequent reason for motivation followed by 93% of the "desire of independence", the "desire for self-realization" 92%, "contribution to the development of my community" 90% and "capability to perceived opportunity of business" with 88% of entrepreneur's surveyed main motivations.

Table 4: Motivations of entrepreneurs in Esmeraldas and Manabí, period: 2012-2015						
CATHEGORIES	MANABI	ESMERALDAS	TOTAL	%		
Improvement of income level	143	145	288	96		
Desire of independence	137	142	279	93		
Desire of self-realization	134	142	276	92		
Contribution to the development of my	135	135	270	90		
community						
capability to perceived opportunity of business	131	133	264	88		
Source: Research team, PUCESE 2012.						

5.02 Route for the competitiveness capabilities development.

As a result of this work, we present the following route that entrepreneurs and farmers' associations leaders can apply, as a way for the change of productive matrix in Ecuador.

Table 5: Competitiveness capabilities for productive matrix change					
Entrepreneurs in Esmeraldas	Sub categories	Agriculture associations condition			
The use of ICT enhances access to information concerning the processing of products in	Capability for processing	Promote entrepreneurship and proactive partnership attitude in their communities.			
internet.	agricultural raw	Use of ICT for checking and buying			
	materials and challenges around	productive supplies.			
	productivity.				
Permanent recording of information, cycles of production, suppliers and clients contacts database, etc. using ICT.	Agricultural production systems and openness to new technologies	Control of the production expenses applying indicators in electronic spreadsheets			
Open mind to the introduction of productive sustainable technologies. Compromise in the application for long periods of sustainable technologies in their harvests.	The point of view of their members towards sustainability	the long term.			
Sensitize partners about the need for generational change according to technological advances. The concrete opportunity for the association	Intergenerational and intercultural participation	Promote the participation of young people in the association. Promote intercultural participation in working groups using ICT.			
to integrate young people who already have knowledge of ICT.		Access to ICT to every community member without ethnic difference.			

6.0 Conclusions

This study reached the aim: to identify the weakness capabilities in the Manabí and Esmeraldas entrepreneurs and farmers' associations leaders. The results of this research show that the "wish for independence (96%), and self-realization (93%)" are the most important motivations for their process of competitiveness capabilities strengthen, which considers: Capability for processing agricultural raw materials and challenges around productivity; Agricultural production systems and openness to new technologies; The point of view of their members towards sustainability; Intergenerational and intercultural participation.

We consider, the change of national production matrix in Ecuador is an adequate public policy, utilized as a strategy for the reduction of the crude oil economy dependence of Ecuador (National Plan of development or Plan of well living 2013-2017). However, we observe that the investment in the strengthening of the producers' competences should be kept even, the possible recession regulations that the current government of Ecuador may implement; because, the competitiveness development is a fact in the long term.

Crude oil has had a high price for almost 10 years and during that period Ecuador had the opportunity to finance the process of modernization of the state and to offer good living conditions to its population. The highway national system was rebuilt, education and health services were priorities in the development public politics, hundreds of migrant families returned to Ecuador but, the competitiveness of the country had a slow growth in comparison to other countries in the region. Since 2006 until current days the price of crude oil fell from USD

105,00 t USD 20,00 and there are no signs of change; situation that has an impact over the state economy structure.

Because, Ecuador has important natural resources to protect in order to develop agriculture and tourism as sustainable industries; we agree with Basu (2000) when, he affirms that in order to maximize the income growth, a nation should not leave the environmental considerations.

At the end of this work, we ratify Moon's (2014) position about "prosperity" when he affirms that "countries need skilled and educated workers, [...] the truly sustainable development instructs us to act together" (p. 1) and we invite other researcher to deepen their works in this topic: Reduction of the developing countries economic dependence in the crude oil exportation.

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