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# Metadata of the article that will be visualized in OnlineFirst

ArticleTitle	Analysis of the Dimens Ecuador	of Corporate Social Responsibility: Study Applied to Co-operativism in				
Article Sub-Title						
Article CopyRight	Springer Nature B.V. (This will be the copyri	ight line in the final PDF)				
Journal Name	Social Indicators Resea	arch				
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	Received	
Schedule	Revised	
	Accepted	21 October 2019
	of transparency, ethical, mora there is no universally recogn aim of this research is to analy of co-operativism in Ecuador, the construct and it was given Ecuadorian co-operatives. In and to discriminate the measu with covariance-based structu is reliable and consistent with factorial analysis performed,	y (CSR) involves activities carried out by businesses based on the principles all and environmental values. Despite the growing interest in this area of study, ised definition, which, in turn, affects the measuring of these activities. The yes the dimensions of CSR, through a valid and trustworthy measuring scale. The research questionnaire was developed from the theoretical analysis of a to 2042 individuals, among them managers, employees and members of order to determine and evaluate the factorial structure, convergent validity uring scale, an exploratory and confirmatory factorial analysis was conducted aral equation modeling (CB-SEM). The results show that the suggested scale the pursued goals. In this sense, and in relation to the viability of the 86.2% of the correlations have a score greater than 0.3. Because of this, it can be measured in the four dimensions analysed: Economic, Legal, Ethical and
		y - Measuring scale - Co-operativism - Ecuador
Footnote Information		

Social Indicators Research https://doi.org/10.1007/s11205-019-02213-w

#### **ORIGINAL RESEARCH**

Journal: SmallCondensed 11205



- Analysis of the Dimensions of Corporate Social
- Responsibility: Study Applied to Co-operativism in Ecuador
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- Accepted: 21 October 2019
- © Springer Nature B.V. 2019

#### **Abstract**

- Corporate social responsibility (CSR) involves activities carried out by businesses based
- on the principles of transparency, ethical, moral and environmental values. Despite the
- growing interest in this area of study, there is no universally recognised definition, which,
- in turn, affects the measuring of these activities. The aim of this research is to analyse
- the dimensions of CSR, through a valid and trustworthy measuring scale of co-operativ-
- ism in Ecuador. The research questionnaire was developed from the theoretical analysis
- of the construct and it was given to 2042 individuals, among them managers, employees
- and members of Ecuadorian co-operatives. In order to determine and evaluate the factorial
- structure, convergent validity and to discriminate the measuring scale, an exploratory and 17
- 18 confirmatory factorial analysis was conducted with covariance-based structural equation
- modeling (CB-SEM). The results show that the suggested scale is reliable and consistent 19
- with the pursued goals. In this sense, and in relation to the viability of the factorial analy-20
- sis performed, 86.2% of the correlations have a score greater than 0.3. Because of this, it
- can be confirmed that CSR can be measured in the four dimensions analysed: Economic,
- Legal, Ethical and Philanthropic.

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**Keywords** Corporate social responsibility · Measuring scale · Co-operativism · Ecuador

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#### 1 Introduction

In recent years, Corporate Social Responsibility (CSR) has taken on a special relevance in the management of businesses on a global level. This interest has developed in businesses as well as in the field of research (Dahlsrud 2008; Fernández-Feijoo et al. 2014; Aguinis and Glavas 2012; Kolk 2016) and involves the current business managers and leaders considering the assessment of the legal, ethical, moral and social consequences of their decisions (Montazeri et al. 2017). The organisations will be those responsible, not only for the supply of goods and services but also for satisfying the needs of internal and external interest groups, as well as ensuring that their operations do not harm future generations (De Witte and Jonker 2006). This reality is no different for the co-operative sector, given that its performance is guided by values such as mutual assistance and interest in the community (Bollas-Araya and Seguí-Mas 2014). Accordingly, it works on the premise that the maximisation of value does not only come from wealth but also from the simultaneous creation of social and economic value.

The co-operative sector on a global level has homogeneous financial structures with less financial profitability but, at same time, with fewer risks than traditional commercial companies, as a result of the resilience of its organisational model (Challita et al. 2014). For its part, CSR contributes to the notoriety of a business in the market and the growth of its competitiveness while, at the same time, favouring the creation of conditions for sustainable social and economic development (Dyczkowska 2015), which is also considered to be a very valuable management instrument from a strategic perspective (Porter and Kramer 2007).

Much academic work has developed their theories regarding CSR in different publications (Wan-Jan 2006; Dahlsrud 2008; Wood 2010; Schrempf-Stirling et al. 2016; Jamali and Karam 2018). However, in the face of a lack of a generally-accepted definition of CSR, Alamer et al. (2015), have suggested a classification of the construct in two general schools of thought. The first bases its approach on the maximisation of earnings within the law, with minimal ethical restrictions (Levitt 1958; Friedman 1968); while the second, where we can categorise the co-operatives, stresses the obligations towards the company (Bowen 1953; Carroll 1979, 1998, 1999, 2000; Sehwartz and Carroll 2003). Other authors, such as Aguinis and Glavas (2012), mention that the challenge for every business is not understanding the definition but determining how to socially consolidate it within a specific context and how to bear this in mind when developing business strategies.

Although co-operatives are a type of social organisation and CSR is based on principles generally aimed at the ethical and responsible management of an organisation, it is certain that both are guided by a common social and humanist aim. Because of this, CSR in the popular and solidary economy can be understood as a way to give the required compliance to a large part of the co-operative principles (Uski et al. 2007). These principles for performance state that the management of the organisation should be social, where aspects of transparency, democratisation, co-operation and environmental management, among others, prevail (Fernández et al. 2018). All of this leads us to analyse whether the bases of the CSR are inherent or parallel to the social management of co-operatives.

In this context, literature regarding CSR suggests that one of the most important and most difficult tasks is the measuring of its dimensions (Orlitzky et al. 2003; Alvarado-Herrera et al. 2017). Given that CSR is a complex and multi-dimensional concept, there arises the need to determine if each dimension is quantifiable and appropriate for the type of organisation (Ehsan et al. 2018). Because of this, some research has tried to offer emerging



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models which reflect social corporate performance, from different perspectives and dimensions (Amini and Dal Bianco 2017). For their part, Porter and Kramer (2007) emphasise that the most effective models for measuring begin by considering the social questions directly relevant to business activity.

In this case, it is considered appropriate to conduct a study of CSR in the specific area of co-operativism in Ecuador, given the importance of the study of these practices in specific sectors of the social economy, specifically in developing countries (Lund-Thomsen et al. 2016; Fernández et al. 2017; Jamali and Karam 2018), with a serious lack of research in this area. Co-operatives form an important part of the popular and solidary economy on a global level, thus these organisations generate partial or total employment of 250 million people in the world and invoice around 2.2 trillion dollars per year (Roelants et al. 2014). Because of this, it is stressed that these institutions require a generic measuring scale for their CSR practices, in which the particularities of each one of them is included (Ehsan et al. 2018). In Ecuador, the co-operatives are subject to the official control of the Superintendence of Popular and Solidary Economy, which classifies them into two groups: (1) financial types, sub-divided, by segments 1 to 5, in accordance with its amount of capital; and (2) non-financial, which considers the wide range of groupings by activities, these being: services, production, housing and consumption.

With this idea as a starting point, the main goal of this research is to develop the scientific knowledge regarding CSR and analyse the dimensions that form it, through the validation of an instrument which allows us to measure their social performance in the co-operativism of Ecuador. This scale corresponds to the adaptation of the dimensions by Carroll (1979), the same which have been considered by diverse authors (among others, Lee et al. 2013; Kim et al. 2016; Montazeri et al. 2017). To achieve this goal, this article is divided into five main sections, in addition to this introduction. In this way, the literature review begins, which constitutes the fundamental basis for focusing this research area; the second, presents the methodology referring to the field work and the measuring scale; continuing with the results and their discussion and, ending with the final section, through the conclusions which frame the main advances of the study and the future lines of research.

#### 101 2 Matherial and Methods

#### 2.1 Survey Design

The aim of this research is to advance the scientific knowledge of CSR and, in turn, identify and validate its dimensions and measuring instrument, specifically, in the co-operatives of Ecuador. To comply with this aim, a quantitative analysis was conducted to measure the perception of the internal and external stakeholders (with different functions and roles), regarding the introduction of CSR in these businesses of the Ecuadoran social economy.

Aggregate data and simple language was used for the surveyees, for the purposes of determining the application of the construct and the dimensions that are being researched, which allows for the comparative analysis to be conducted or for the monitoring of long-term results to be done. During the design of the research questionnaire, it was initially reviewed by experts in the study area. The survey used questions with yes/no type answers, questions with open and closed answers and questions which used a Likert scale of 5 points.



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#### 2.2 Data Collection

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The questionnaire was carried out by a team of researchers from the Eloy Alfaro Lay University of Manabí in Ecuador. Beforehand, the pre-selection of surveyors who did the field work was conducted and they were given training. This training dealt with the application strate-118 gies and the criteria for validating the information received. Afterwards, selection tests were 119 applied to validate the knowledge received and choose only those people considered ideal for 120 the intended survey.

The research instrument was prepared in Spanish and the answers were obtained through visits co-ordinated with the previously identified stakeholders. The application period of the questionnaires was between the 1st of February and the 15th of March 2018. The estimated time to complete the questionnaire was 20 min, with the surveyees being informed beforehand of what the study was looking for, as well as the importance of the results. For representativeness in the research, a sample by quotas in terms of the financial co-operatives and the sectors of the non-financial co-operatives was used, in accordance with the grouping provided by the Superintendence of Popular and Solidary Economy, a public organism belonging to the Function for Transparency and Social Control of the Ecuadorian government. It was not stratified by sex, age, education, nationality or any other variable as there were no previous studies which supported this stratification. A total of 2137 surveys were collected, of which only 95 (4.4%) were rejected due to incomplete or absent data.

#### 2.3 Sample and Sampling Error 134

The specific framework of this research focuses on the stakeholders of the co-operatives in 135 Ecuador, with the population that is the subject of this study consisting of 6,509,311 indi-136 viduals (data from the 31st of December 2017, according to the Superintendence of Popular 137 and Solidary Economy), which includes registered members who, in turn, in these institutions, 138 have multiple roles (member, employee, manager, provider, customer/user or member of the 139 board of directors or surveillance). The final sample was composed by 2042 individuals. Con-140 sidering the previously-supplied data, the error sample reaches 2.2% for a confidence level of 95%. In Table 1, the characterisation of the sample is presented. 142

#### 2.4 Data Analysis

144 For the statistical tabulation and handling of the data resulting from the research, the SPSS v23 and Amos Graphics v23 software programmes were used, where the statisticals were 145 determined in order to evaluate the consistency, trustworthiness and validity of the question-146 naire applied. This analysis was completed in two parts: first, an exploratory factorial analy-147 sis was completed, to determine the number of correlations that are presented in the measur-148 ing scale provided and, this way, collect the dimensions that each variable tries to explain. 149 Afterwards, an analysis was done on the confirmatory factor analysis which presents structural 150 equations to confirm the adaptation of the model proposed.



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**Table 1** Sample charasteristics. *Source*: Own elaboration

Variable	N	%	Mean (SD)
Age			37.7 (10.9)
Sex			
Woman	714	35.0	
Man	1328	65.0	
Education			
Post-compulsory secondary education or lower	1084	53.1	
Professional technician	246	12.0	
Diploma	94	4.6	
Degree	574	28.1	
M.Sc. or Ph.D.	44	2.2	
Internal stakeholder			
Shareholder	726	35.5	
Employee	1.199	58.7	
Manager	56	2.7	
Shareholder and employee	53	2.6	
Shareholder and manager	10	0.5	
External stakeholder			
Provider	106	14.5	
Customer/user	537	73.6	

## 152 3 Theory

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CSR involves activities that go beyond the legal framework and economic profit, requiring the achievement of long-term objectives in accordance with society and the environment (Baumgartner 2014; Mohr et al. 2015), as well as the management of reports for regulatory and stakeholder institutions (Braam and Peeters 2017). Because of this, on many occasions, leaders/managers tend to confuse it with the idea of sustainability development (Sarvaiya and Wu 2014), given that both are wide-ranging and multi-dimensional constructs, whose difference comes from the temporary vision and environment of application. It could be considered that CSR is a voluntary compromise of immediate application to satisfy the needs of stakeholders, while sustainability development has a long-term perspective, even considering the preservation of the planet, in such a way that the resources of future generations can be protected (Baumgartner and Rauter 2017). This is how it has been argued that the meaning of CSR differs in relation to the type of business and its stakeholders (Campbell 2007), by which literature regarding this construct indicates the inconsistency in the application of the term (Gárriga and Melé 2004) and, in the absence of a universal definition, the multiple debates regarding its importance have given place to consider the measuring of its dimensions as one of the most difficult and necessary aspects to address (Nicolassi et al. 2014).

As has been indicated, measuring CSR continues to be a challenge due to the lack of unanimity in relation to the practices recommended by the organisations (Gallardo-Vázquez and Sanchez-Hernandez 2014). In this sense, a considerable increase in empirical studies that try to explain the relationship between socially-responsible activities



and long-term business results has been observed (Godfrey et al. 2009). The pioneering work in this field developed measuring scales based on the annual reports of large American businesses (Abbott and Monsen 1979; Ullman 1985), however the data published in business reports may be different to the activities that were actually undertaken (McGuire et al. 1988). In this case, many researchers have focused their study on measuring the CSR, with the purpose of having instruments which help to quantify the social activities of the businesses and the relationship, in general terms, regarding their sustainable economic results (Orlitzky et al. 2003; Hopkins 2005; Turker 2009; Saeidi et al. 2015; Alvarado-Herrera et al. 2017). As such, the matter of whether there is a positive, negative or neutral association between CSR practices and economic performance is a crucial one (Nicolassi et al. 2014), but given that the socially-responsible activities cover many aspects, the implementation of tools which combine the economic part with the legal and social part becomes essential (Amor-Esteban et al. 2018).

In an attempt to develop CSR assessment models that include the economic aspects and social management, some businesses have introduced what is known as a Balance Score Card, which helps an organisation define its strategic objectives and their efficient establishment, classified in four perspectives: financial, customer, process and growth (Kaplan and Norton 1996). In any case, this model is weak in relation to the quantification of CSR scores, in terms of the qualification procedure as well as the weighting process of the criteria chosen for the study (Panayiotou et al. 2009).

Other studies suggest the use of performance indicators such as the Global Reporting Initiative (GRI). This indicator is considered an instrument for disclosing information related to the CSR practices, addressing the vision, strategy, profile, structure of government and management systems, as well as the three pillars of sustainability: economic, environmental and social. However, Hopkins' (2005) research, which theoretically analyses the indicators which allow for the measurement of advances in CSR, within which the study of GRI is done more in-depth, reaches the conclusion that a lack of coherence exists among the indicators which determine the same and the management of the businesses, by which a sufficient model is constituted for the following and assessment of CSR. In this sense, its main weakness comes from simply proposing a reporting framework, with this not being enough to offer a whole image of the risks and opportunities that a company may face nor its real value for the interest groups.

Similarly, the indicators of Kinder, Lydenberg and Domini are those which traditionally use the businesses of Canada and the United States to analyse their socially responsible practices (Barnett and Salomon 2012). The results derived from its application support the hypothesis that the CSR and the financial results have a statistically significant relationship. However, these measuring tools do not include contextual factors that can influence the practices and measuring of CSR, something which is necessary, knowing that each country or sector has its own social, political, economic and institutional context which should be taken into account in the measuring instrument that is applied (Ehsan et al. 2018).

For her part, Claydon (2011) has completed a wide analysis of the different CSR models proposed over the years, the following of which stand out: Carroll's pyramid (1991), the sustainable development model of Aras and Crowther (2009), Visser's CSR 2.0 double helix model (2010) and, finally, a new model called consumer-driven corporate responsibility (CDR), developed by the aforementioned researcher. This last model is only focused on fulfilling the needs and expectations of the customers and, through this, obtaining profits which help meet the social and environmental responsibilities of the businesses. However, this is considered to be restricted in terms of analysing the practices of CSR in the



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co-operative sector in particular, considering the different roles that stakeholders have within these organisations in the social economy.

The most recent pieces of research (among others, Lee et al. 2013; Kim et al. 2016; Montazeri et al. 2017) propose their own measuring scales, using the theories of Carroll (1979) focused on the multi-dimensionality of CSR or those of Freeman (1984) based on stakeholders, because of this their results are valid with the application of surveys to administrators and workers; considering the most important stakeholders that may be affected or can be seen to be affected by business performances (customers or users). Definitively, the literature review shows the existence of different methods and techniques to conduct the measuring of socially-responsible activities. However, many of these present limitations and, in this case, it is necessary to prepare a scale that allows us to measure CSR from the perceptions of all the stakeholders and that addresses all its dimensions at the same time.

In this context, this research has taken the conceptual model of social performance developed by Carroll (1979). In an initial analysis of this model, it may be considered to be somewhat appropriate for the co-operative sector, given its apparent difficulty to explain the complex relationships among the businesses, society and the environment, given that its basis is the economy (Claydon 2011). However, the reality is that the co-operative philosophy is consistent with the basic approach of this model, in which a commercial organisation responsible is concerned, not only regarding economic demands but also the ethical demands of society. All of this is aligned with co-operatives as in their operations and businesses they should address the needs of their stakeholders (Uski et al. 2007). With this being even more so considering the activities and types of existing co-operatives, which include the financial, consumption and services areas, among others. Definitively, if they truly are non-profit institutions, they should be economically and socially profitable in order to fulfil the principle of fair distribution of profits or surpluses.

Additionally, we should highlight the importance that dialogue with stakeholders has when applying CSR strategies (O'Riordan and Fairbrass 2008). In this sense, in co-operatives many of the stakeholders have the specific characteristic of playing different internal and external roles at the same time (Gijselinckx 2009), which may be: member, employee, manager, provider, customer/user or a member of the board of directors or surveillance. For this matter, Montazeri et al. (2017) determine that other models include aspects which cannot be assessed by external users, given that it is difficult for them to obtain information regarding the internal measures that the institution introduces in relation to CSR. All of these arguments support the conclusions of previous research which determine that Carroll's model (1979) is adaptable to diverse sectors or types of business (among others, Lee et al. 2013; Kim et al. 2016; Montazeri et al. 2017; Alvarado-Herrera et al. 2017).

This model prepares four dimensions of CSR: economic, legal, ethical and philan-thropic. The economic dimension is the basis of CSR, given that without it the businesses could not contribute to society (Carroll 1991); this dimension addresses the activities that create the lucrative assets, services and results that are the product of the operations of the organisation in a community (Xia et al. 2018). Despite the co-operatives not being purely commercial, they are aimed at the market and the search for results, in a way that guarantees their economic and financial stability. Because of this, it can be concluded that, although they are non-profit institutions (given that their goal is not to make profits for its distribution to capital owners), they pursue sufficient profitability that allows them to be competitive from a social and economic point of view (Bernardi 2007).

For their part, the legal dimension implies complying with legal and regulatory provisions (Kim et al. 2016), in this case Cavalcanti and Barlow (2013) emphasise that governments should publish and ensure compliance with these regulations, given that the



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businesses tend not to perform in a proactive manner when it comes to social and environmental topics. From this point of view, the co-operative sector is based on a wide regulatory framework, both generally and specifically. Due to this, directors should adjust to this legal framework, in a way that provides legitimisation to the operations that they perform (Roessl 2010), giving the organisation the necessary legal stability at the same time.

The ethical dimension involves the application of moral behaviours of doing the right and reasonable thing, with the aim of preventing the damage caused by businesses, which should be respected, protected and safeguarded by the compliance of human rights (Kolk 2016). This is how, in co-operatives, ethical aspects related to transparency in management and behaviour based on humanising principles make their stakeholders generate confidence and, at the same time, develop the appropriate feeling of belonging to the institution (Roessl 2010).

Finally, the philanthropic dimension considers the voluntary activities of a business and represents an opportunity for the business sector to help, in an altruistic way, the development of other sectors and areas of society (Aakhus and Bzdak 2012). The importance of this dimension in the sector of the popular and solidary economy is related to the participation of co-operatives in the daily life of people (Uski et al. 2007).

These CSR dimensions focus their attention on the stakeholders. However, responsibilities towards the environment should also be considered as being within ethical and legal dimensions (Bodhanwala and Bodhanwala 2018). All of this leads to management that is environmentally and socially responsible. This allows for the long-term subsistence of the co-operative organisation and future generations, in addition to complying with the cooperative principle of reciprocity (Battaglia et al. 2015). These reasons lead to an important CSR contribution to sustainable development, whose social, economic and environmental aspects should be supported by a sustainable business culture (Baumgartner 2014), where the contextual factors and levels of management of strategic and operational regulations of the organisation are highlighted (Moon 2007).

#### 4 Results

#### 4.1 Design of the Measuring Scale 300

The bibliographical review of the construct around which the study problem revolves, allowed for establishing the items that contribute the required information in an appropri-302 ate way. The questions managed to focus on two aspects: Socio-demographic situation and 303 purpose of the survey with the CSR approach. The demographic structure allowed us to 304 also determine, within the study area, the difference of CSR actors (member, employee, 306 director), with their respective characterisation of age, sex, educational level and economic dependence of the co-operative institution. Besides, the additional role of each one of them was considered, which could be: customer/user or supplier; and the details that identify 308 the position: type of contract, working day, department, length of service, level of author-309 ity, work shift, range of income, among others. In order to determine the CSR approach, the methodology proposed by Churchill (1979) and used by Montazeri et al. (2017), was 312 followed for the development of research measures and instruments, which includes seven steps. 313

The first step consists of specifying the domain of construct, so literature review was performed, taking into account the research which presented appropriate modelling for the



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pursued goals. On this basis, the CSR approach was determined through the analysis of the four dimensions of corporate responsibility of Carroll's model (1979): economic, legal, ethical and philanthropic; where the questionnaires of Lee et al. (2013), Kim et al. (2016), and Montazeri et al. (2017).

The second step consists of generating a sample of items. In this study, 25 of them were selected. Afterwards, with the aim of removing the elements that are inappropriate or that are not directly related to CSR, a group of experts collaborated: Three of these were researchers in the area of CSR and the other two were academics with experience in cooperativism. Finally, after various brainstorming processes, they decided to apply a scale of 15 items which were adapted to the co-operative sector in a timely manner.

The third and fourth steps consist of collecting data and purifying measures, by which a pre-test was applied to 30 stakeholders of the co-operatives in different sectors, with the purpose of getting comments and suggestions which avoid the use of language which could, among others, condition the survey respondent, indicating the expectations of the study. This step becomes highly important for identifying errors or inconsistencies which may be presented in the study of the full scale. In order to advance with the purifying measures, an exploratory factorial analysis was performed in order to determine the right number of common factors so as to group the variables which are meant to be measured.

As a result of this, a measuring scale of 15 items was suggested, evaluated through a Likert scale of 5 points, in which 1 means "completely disagree" and 5 means "completely agree". In the following, each dimension adapted for the questionnaires mentioned is described: (1) Economic CSR (Eco), tries to measure the activities developed by the co-operative from its economic activity and which also makes profits for its shareholders; (2) Legal (Leg), collects information regarding the compliance of legal provisions in general and the creation of internal regulations which allow for the development of activities, with respect to the legality in force; (3) Ethical (Eth), intends to collect information regarding the practices of ethical business in the co-operatives, considering the creation of ethics codes and committees; and (4) Philanthropic (Phil), looks to analyse the degree of participation of these institutions of popular economy, through its involvement and contribution to solidary causes with society in general.

The final three steps (fifth, sixth and seventh) consisted of collecting data, assessing reliability and assessing validity. For this, the questionnaire was applied to the chosen sample and the confirmatory factorial analysis was given with covariance-based structural equation modeling (CB-SEM), which are described in the following section.

### 350 4.2 Validation of the Measuring Scale

Having achieved and tabulated the data, an exploratory factorial analysis was conducted using the Main Components method with Varimax rotation to determine the appropriate number of common factors and discover whether the variables suggested are appropri-ate (Table 1). The feasibility of the factor analysis is evaluated with the matrix of cor-relations described in Table 2 (86.2% of the correlations with a value higher than 0.3); the sampling adequacy measure of Kaiser Meyer-Olkin (KMO), whose result was 0.921; the result of Bartlett's sphericity test showed that the variables were not independent ( $\chi^2$ (105)=8773.86, P<0.001). The values for the Measures of Sampling Adequacy (MSA) were found to be above 0.86. 

The number of factors generated in this study was determined through the latent root criterion (factors with self-values greater than 1) being, as such, four factors, which

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Table 2

	CSR1 CSR2	CSR2	CSR3	CSR4	CSR5	CSR6	CSR7	CSR8	CSR9	CSR10	CSR11	CSR12	CSR13	CSR14	CSR15
CSR1. Products	1	0.498	0.315	0.425	0.609	-0.055	0.575	0.617	0.015	-0.034	-0.421	-0.410	0.391	0.080	0.307
CSR2. Quality		1	0.523	0.368	0.351	-0.339	0.670	0.461	0.478	-0.391	-0.329	0.529	0.631	-0.306	0.486
CSR3. Prices			1	0.415	0.597	0.311	0.386	0.354	0.315	-0.011	0.013	0.350	-0.399	0.368	0.449
CSR4. Economic growths				1	0.549	0.413	0.415	0.084	0.580	0.095	0.501	0.303	-0.006	0.049	-0.520
CSR5. Regulations					2	0.425	0.446	0.403	0.611	0.326	0.418	0.502	909.0	0.359	0.560
CSR6. Employment laws						1	0.405	0.413	0.322	0.541	0.317	0.331	0.038	0.397	-0.325
CSR7. Reports					,		\(\times\)	0.351	0.486	0.386	0.545	0.343	0.400	0.443	0.437
CSR8. Rules of procedure								1	0.584	0.472	0.692	0.455	0.325	0.461	0.081
CSR9. Environment									1	0.350	0.328	0.331	0.468	0.482	-0.360
CSR10. Ethics guidelines										1	0.675	0.577	0.592	0.362	-0.006
CSR11. Ethics committee											1	0.711	0.341	0.495	0.472
CSR12. Ethics practices												-	0.406	0.398	0.471
CSR13. Ethics business													_	0.523	0.396
CSR14. Beneficial causes								<b>y</b>	2					1	0.372
CSR15. Donations															_



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explains 64.78% of the total variance (Table 3). The first factor, explains 21.56% of the AQ3 total variance and it has heightened and positive correlations with items 1, 2, 3 and 4, so this factor will be known as Economic—CSR (Eco); the second factor, explains 18.58% of the total variance and it has positive correlations with items 5, 6, 7 and 8, so this factor will be known as Legal—CSR (Leg); the third factor explains 13.98% of the total variance and it has positive correlations with items 9, 10, 11, 12 and 13, so this factor will be known as Ethical—CSR (Eth); and finally, the fourth factor, explains 10.66% of the total variance and it has positive correlations with items 14 and 15, so this factor will be known as Philanthropic—CSR (Phil).

In order to confirm the appropriateness of the measuring scale proposed in the exploratory study, a confirmatory factor analysis was conducted using covariance-based structural equation modeling (CB-SEM), and with this the trustworthiness was assessed through the method of maximum likelihood estimation. This estimation method may be applied when the univariate normality of the items is fulfilled, proven according to the criteria of Curran et al. (1996) and whose results are shown in Table 4. The breach of the multivariate normality does not affect the ability of the method to estimate the model parameters in a non-biased way.

Thus the appropriateness of the model obtained was confirmed, composed by 4 dimensions and 15 items in total. The estimated parameters were statistically significant (P>0.05) and the factorial loads presented values greater than 0.5, by which it can be identified that all the indicators saturate satisfactorily with each one of the latent variables. Given that the co-variance among the factors was not greater than 0.5, the model proposed did not present any problems with collinearity, which also indicates evidence of a discriminant validity (Fig. 1).

With the purpose of determining the merit of the model adjustment, the models used were the Goodness of Fit Index (GFI), Adjusted Goodness of Fit Index (AGFI), Normed of Fit Index (NFI), Comparative Fit Index (CFI), Tucker Lewis Index (TLI) and Root Mean Square Error of Approximation (RMSEA), where the confidence intervals of

**Table 3** Exploratory factor analysis: questionnaire CSR. Source: Own elaboration

Items	Dimensio	on		
	Eco	Leg	Eth	Phil
CSR1. Products	0.665	0.174	-0.117	0.208
CSR2. Quality	0.821	0.12	-0.101	0.107
CSR3. Prices	0.806	0.014	0.114	-0.054
CSR4. Economic growths	0.364	0.218	0.257	-0.102
CSR5. Regulations	0.207	0.731	0.212	0.012
CSR6. Employment laws	0.066	0.691	0.801	-0.211
CSR7. Reports	0.110	0.788	0.037	0.114
CSR8. Rules of procedure	0.120	0.737	-0.021	0.143
CSR9. Environment	0.161	0.241	0.567	-0.119
CSR10. Ethics guidelines	-0.072	0.072	0.847	0.147
CSR11. Ethics committee	-0.051	0.005	0.795	0.305
CSR12. Ethics practices	0.041	0.095	0.767	0.371
CSR13. Ethics business	-0.15	0.288	0.568	0.121
CSR14. Beneficial causes	0.103	0.115	0.149	0.503
CSR15. Donations	0.095	0.017	0.117	0.792



 Table 4 Descriptive statistics for corporate social responsibility (CSR). Source: Own elaboration

Items	Min	Max	Skew	SE skew	Kurtosis	SE kurtosis
CSR1. Products	1	5	-2.813	0.054	6.56	0.108
CSR2. Quality	1	5	-2.531	0.054	6.234	0.108
CSR3. Prices	1	5	-1.811	0.054	4.155	0.108
CSR4. Economic growths	1	5	2.964	0.054	5.518	0.108
CSR5. Regulations	1	5	-2.348	0.054	5.965	0.108
CSR6. Employment laws	1	5	1.513	0.054	3.902	0.108
CSR7. Reports	1	5	-2.302	0.054	5.959	0.108
CSR8. Rules of procedure	1	5	-2.524	0.054	4.612	0.108
CSR9. Environment	1	5	-1.689	0.054	-0.819	0.108
CSR10. Ethics guidelines	1	5	-1.499	0.054	-1.297	0.108
CSR11. Ethics committee	1	5	0.959	0.054	5.295	0.108
CSR12. Ethics practices	1	5	-1.352	0.054	-1.177	0.108
CSR13. Ethics business	1	5	-1.328	0.054	1.158	0.108
CSR14. Beneficial causes	1	5	-0.649	0.054	-0.651	0.108
CSR15. Donations	1	5	-1.47	0.054	-0.963	0.108

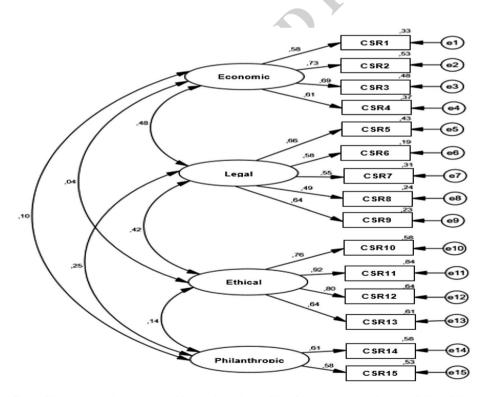


Fig. 1 CFA second-order structure with covariance based SEM for corporate social responsibility (CSR). Source: Own elaboration



| Journal : SmallCondensed 11205 | Article No : 2213 | Pages : 18 | MS Code : 2213 | Dispatch : 25-10-2019

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90% were included. The adjustment for the theoretical beginning model scale is heightened, resulting in values of the GFI, CIFI, and TLI being greater than 0.94; and AGFI and NFI being greater than 0.94 (Table 5). To finish, the internal consistency of the dimensions was analysed through Cronbach's alpha coefficient ( $\alpha$ Economic=0.808;  $\alpha$ Legal=0.843;  $\alpha$ Ethical=0.917;  $\alpha$ Philanthropic=0.875), that indicates a high trustworthiness in the model offered.

#### 5 Discussion

CSR is a topic that has been studied considerably in scientific literature. However, without there being a universal definition to support it, diverse analytical viewpoints have emerged, which in turn complicates the measuring of socially-responsible activities of businesses (Carroll 2000). The research conducted reaffirms the organisational need to assess financial and non-financial results in terms of social management (Panayiotou et al. 2009; Lee et al. 2013; Amini and Dal Bianco 2017).

Taking into consideration that CSR can be applied and understood in a different way in each country and economic background, the preparation of a measuring scale for this construct, that adapts to the needs, the nature and the context of the sectors where it is being applied (Campbell 2007) is indispensable. In this way, there are recent pieces of research regarding social management in Latin America (Lund-Thomsen et al. 2016; Jamali and Karam 2018, among others) and, specifically, one of those applied to Ecuador (Amini and Dal Bianco 2017). But, in terms of the measuring scale, there is only current research as reference (Fernández et al. 2017), whose proposal is not adaptable to the nature of all the organisations which are part of this country, considered to be a developing one.

This study confirms the multi-dimensional nature of CSR in the realm of Ecuadorian co-operativism, coinciding with the results of some of the previous empirical studies (Hopkins 2005; Godfrey et al. 2009; D'Aprile and Talò 2014; Kim et al. 2016). It is shown, using an exploratory and confirmatory factor analysis, that the structure of the scale is consistent and accepts the dimensions: economic, legal, ethical and philanthropic, of Carroll's general model (1979). The potential adaptability of this scale to any type of business should be underlined, in that it looks for a balance between the dimensions analysed and the stakeholders. In fact, because of this, research in the area of CSR in specific sectors with special characteristics, such as the co-operative sector and, especially, in developing countries is fundamental.

Table 5 Goodness of fit statistics (CSR). Source: Own elaboration

	χ2(g.l.)	P	χ2/gl	GFI	AGFI	CFI	NFI	TLI	RMSEA (I.C. 90%)
Total	338.84 (84)	< 0.001	4.03	0.96	0.96	0.97	0.95	0.96	0.059 (0.049–0.071)
Subsample 1	287.69 (84)	< 0.001	3.42	0.95	0.95	0.96	0.94	0.95	0.061 (0.052-0.076)
Subsample 2	296.34 (84)	< 0.001	3.53	0.95	0.95	0.95	0.95	0.94	0.062 (0.053-0.079)



## 6 Conclusions

CSR has gone from being merely a philanthropic aspect to being a matter of first-class importance in the performances of businesses on a global level, with solid and structured principles that need to be assessed to determine the effectiveness in the processes in place. In Ecuador, there is an incipient development of empirical studies related to the measuring models of socially-responsible practices. In this case, the main insight of this article is the validation of an appropriate and trustworthy tool that allows for measuring the CSR, in the specific sector of co-operativism.

Co-operativism has particular characteristics where the principles of the co-operative movement prevail and their reason for being is the social economy, where human beings and the community take precedence. For this reason, from its own creation, these institutions should adapt to the CSR approaches, by which it is extremely important to complete the real measurement of their socially-responsible performance. Although it is true that in Ecuador there is a so-called "Balance Social Cooperativo" (*Co-operative Social Balance*) implemented by the Superintendence of Popular and Solidary Economy (whose parameters are established in a document for accounts performance), their results do not satisfactorily reflect the developments presented in social subjects in this sector.

This study offers a new framework for measuring CSR for these popular and solidary economy institutions in Ecuador (even being able to be adopted by other developing countries or ones with emerging economies). Accordingly, the proposed questionnaire may be used, among others, by the public institution of control to which the co-operatives should be accountable to (Superintendency of Popular and Solidary Economy, belonging to the Function of Social Transparency and Control of the government of Ecuador). Similarly, it is also considered to be highly useful for the members, managers and stakeholders in the area of co-operatives, allowing for the availability of a strategic tool that allows for assessing the impact of socially responsible practices in the environment in which they operate, such as helping the resolution of ethical and social problems, activities related to the support of philanthropic events and the commitment to improving the wellbeing of the community and the environment.

This is how the empirical evidence of this paper can show that the CSR can be measured through the fifteen items brought together in four dimensions: economic, legal, ethical and philanthropic. Given that co-operativism includes a wide range of activities corresponding to diverse sectors (finances, production, services, among others), we can conclude that this model is established as a tool for easy-adaption and use for any institution and sector.

The main limitation of the study is found in the completion of field work, given that there are rural areas where it was not possible to have in-person access to various cooperatives, which lead to sending the questionnaires virtually, which, in turn, caused a low response rate. Finally, in terms of lines for future research, the application of this measuring scale to other sectors so as to guarantee its adaptability is suggested, as well as to determine whether there is any relationship between CSR and other fundamental variables of the business management such as, for example, sustainable development, which is related to the commitment of organisations to not only make a profit but to also be environmentally and socially responsible.



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