

"Embracing Change and Recalibrating Business & Economy in a Post-Pandemic Context"

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### Management Control System and Performance of Cooperative Societies in Northern Province of Sri Lanka

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#### ABSTRACT

Cooperative societies in Sri Lanka have a long and rich history from British rule. The main purpose of a cooperative society is to meet the common needs of the people in societies around the world. In Northern Province, cooperative societies failed to record a remarkable performance during the past years. Therefore, the study attempts to analyze the relationship between the management controls system and the performance of cooperative societies in the Northern province of Sri Lanka. For the study purpose, 319 questionnaires were received and analyzed. The finding of the study revealed that the logistic regression model was statistically significant. The model explained 31.7.0% (Nagelkerke R2) of the variance in performance and correctly classified 93.1% of cases. From the study results, researchers recommend the following: sharing the vision, mission, and objectives of Cooperatives among their staff will lead to higher performance of cooperatives. Cooperatives should increase face-toface meetings with employees, which will lead to better performance of cooperatives. Diagnostic control has a negative significant relationship with performance. It shows that employees do not like to work under the traditional management control system. Therefore, the valuation standards and incentives scheme of employees should be modified.

Keywords: management control system, diagnostic control systems, belief control systems, interactive control system, performance

#### 1. Introduction

Different managers perform different responsibilities in an organization, and therefore, different kinds of information are needed by them to manage the activities in their respective areas. The management control system should be able to develop, gather, and communicate information to the management at different levels in the organization. Controlling as a function of management is of great value and importance in a business organization to ensure

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that the actual state of affairs of a business is along the lines of what is expected to be. One of the most obvious benefits of controlling function is that it provides accurate information on what is wanted for an effective decision-making process as well as maintaining the effective functioning state of a business. However, in Sri Lanka, we have very limited knowledge regarding their Management Control System (MCS). MCS are important tools supporting organizational learning and innovation, as the premise of management control is to ensure the attainment of organizational objectives.

A cooperative society is established for the purpose of fulfilling the common needs of the people in the world. A cooperative society is a form of organization where members join together as human beings to satisfy their common economic, social, and cultural needs. They are also expected to supply needed goods on one hand, and credit facilities and marketing products on the other hand. The emphasis is not on profit-making and the cooperatives should work on a no profit-no loss basis. In Sri Lanka, the Department of Cooperative Development had started on 1st October 1930 under the name of Department of Cooperative. and later in the year 1945, it changed the name to the Department of Cooperative Development. Sri Lanka has very limited knowledge regarding management control systems. MCS are important tools supporting organizational learning and innovation, as the premise of management control is to ensure the attainment of organizational objectives. The combination of performance-driven behaviour and regular use of management control systems leads to improved results (Darja & Metka, 2008). This task can be accomplished by using diagnostic measures as a way to improve operational effectiveness, and the other three types of control measures as a way to mitigate its negative effects on employee creativity (Kimura & Mourdoukoutas, 2000). A cooperative society is established for the purpose of fulfilling the common needs of the people in the world. The business is accepted as distinguished to achieve sustainable development and at the same time, it strictly adheres to social responsibility and ethical values. There is a huge investment employed during the last four years by cooperative societies in the Northern Province. Since the overall performance is not at the expected level, there is a need to examine them in terms of their financial and operational performance so as to establish their current status in terms of assets utilization, the performance of their business activities, and see whether they satisfy the needs of their stakeholders (Mangaleswaran & Alfred, 2014).

#### 1.1. Problem statement

Generally, a cooperative society is an association of people who pool their resources together on a mutual basis to solve specific socio-economic problems, which may include earnings generating activities. Cooperative societies in the Northern province are expected to take part in enriching the lives of poor communities. There are several types of cooperative societies in Northern province, Sri Lanka. They include: farmers cooperatives, cooperatives fisheries agriculture too. During the local war period, they lost considerable assets and most of their many organizations, such as the World Bank, various donor agencies, and NGOs. Many The facilities were given in the form of buildings, equipment, vehicles, factories, etc., but the

A Management Control System provides information to managers in order to assist them in making decisions according to their plans and objectives. There are several

definitions given by previous authors, such as Anthony (1965); Chenhal (2003); Simons (1994, 1995).

Simon (1994) explains MCS as "the formal, information-based day to day activities and procedures managers use to maintain or modify patterns in organizational activities. In and procedures an organizational activities". In a nutshell, control is a policy or procedure that facilitates an organization to ensure that its a nutshen, consider a nutshen, considered an organization to ensure that its goal and objectives are met. Further, he introduced four key variables that must be used for husiness strategy: belief, boundary diagnostic and he was be used for goal and objects.

controlling business strategy: belief, boundary, diagnostic, and interactive. According to controlling beautiful controlling and Randle (2000), MCS was important for organizational growth as they plannoitz and liberated top managers' attention from processes that could be controlled by exception and provided them with information when their informal network was overloaded. The emergence of MCS was most important for organizations moving through their growth stage when coordination and control problems could not be solved through informal interaction (as happens during the birth stage) according to Moores and Yuvan (2000). MCS then emerged to formalize this learning by codifying routines and liberating management attention from repetitive tasks. Kober et at., (2007)'s finding recognized in the contingency theory that, for enhanced performance, there needs to be a match between an organization's MCS and its strategy. By extension, the contingency framework suggested that when strategy changes, the MCS also changes. Contingency theory also argued that there was no universally appropriate control system applicable to all situations. As such, the appropriateness of different MCS mechanisms was contingent on the circumstances surrounding the organization. While a number of strategic typology frameworks have been advanced in the literature, this research uses the Simons (1994) as the basis for the discussion.

Researchers wish to apply the concepts of management control systems in cooperative societies in the Northern province. Before applying this concept there is a need to find the existing pattern of the management control system and its influence on the performance in cooperatives. Therefore, the research addresses the research question what is the relationship between the Management Control System and the performance of cooperative societies in Northern Province.

Cooperative societies in the Northern Province are expected to take part in uplifting the lives of vulnerable people and displaced communities. During the conflict, they lostconsiderable assets and most of their administrative records were lost. In the meantime, during the past three years, they have been supported by many organizations such as Department of Cooperative Development (DCD) and various donor agencies and NGOs. Many facilities were provided by these organizations for improving, reestablishing and establishing the co-operatives in the North. The facilities were given in the form of buildings, equipments, vehicles, factories etc

### 2. Literature review

Asiligwa and Rennox (2017) did a study guided by the agency theory to test empirically the effects of internal control on cooperative performance in tertiary institutions in Kenya. The study used a case study research design. The findings of the research showed that inadequate staffing of the institution's internal audit affects the internal control of the cooperative societies' performance.

Hayali et al., (2014) studied the importance of internal control systems in cooperative societies; evidence from Turkey. In this study, the importance of an internal control system is

expressed, also its impacts on the cooperative system are analyzed. The research showed the expressed, also its impacts on the cooperative are adapted to the international stands the cooperative system. expressed, also its impacts on the cooperative system and adapted to the international standards the internal control activities of the cooperatives existed in the cooperative system. In additional standards in the strong and in additional strong and in the strong the internal control activities of the cooperatives existed in the cooperative system. In addition turkey and effective control procedures existed impact on the strong and stable outless have a great impact of the cooperative system. Turkey and effective control procedures existed in addition outlook of the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms have a great impact on the strong and stable outlook of efficient internal control mechanisms. efficient internal control mechanisms have a great important of the management control trikish cooperative societies. Antonio et al. (2016) investigated "the management control Turkish cooperative societies." The purpose of this study medium family firms. Turkish cooperative societies. Antonio et al. (2010)

Systems and performance in small and medium family firms. The purpose of this study is to systems and performance in small and medium family firms. systems and performance in small and medium raining study is to systems and performance in small and medium raining study is to systems and performance impacts the degree of utilization of the management control analyze whether family influence impacts the former and performance. This study is to between the former and performance. analyze whether family influence impacts the degree and performance. This study was system (MCS), and the relationship between the former and performance. This study was system (MCS), and the relationship between the family and non-family business. system (MCS), and the relationship between the local system (MCS), and the local carried out using a sample of 900 Spanish SNISS, but the fewer management control system findings of the study show that family businesses use fewer management control system findings of the study show that family businesses use fewer management control system findings of the study show that family businesses a positive influence on business performance of the study show that family businesses a positive influence on business performance of the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that family businesses are supplied to the study show that supplied to the study show that supplied to the study show that supplied to the study show the supplied to the supplied findings of the study show that family businessed and systems than non-family firms, and the use of MCS has a positive influence on business performance.

Raymond, (2016) made an empirical analysis on "the effects of management control Raymond, (2016) made an empirical arrivolved businesses". This study addressed systems and strategy on performance of minority-owned businesses. systems and strategy on periormance of management control systems, business strategy, and the perceived relationships among management control systems, business strategy, and the perceived relationships allows allowed manufacturing businesses. Data was organizational performance in U.S. minority-owned manufacturing businesses. Data was organizational performance in 0.5. Introduction of 2,583 collected from a population of 2,583 minority-owned manufacturing businesses in the United States. The result of this study revealed that financial and non-financial-based management control systems and differentiation strategies were significantly positively related to organizational performance. Low-cost leadership strategy was positively related to organizational performance but was not statistically significant.

Anthony and Govindarajan (2001) explained framework, on the other hand, showed the interrelationship between the management control system, firm structure, firm culture, and human resource management in order to get the management control system to work according to the strategy. They suggested that effective control systems are highly situational and that the system should be personalized to the nature of each firm. Based on their framework, the firm structure demonstrated the roles and responsibilities of the employees to make the decision within the organization.

The firm culture refers to the shared beliefs, attitudes, and norms that explicitly or implicitly lead managerial actions, while human resource management is the selection, training, evaluation, promotion, and termination of employees in order to develop skill and knowledge to increase the family. knowledge to increase the firm's strategy. In order to implement the intended strategy, Simons (1995) framework proposed four levers of control that were inter-related; namely, belief systems. boundary systems discount for the line of the latest the lat belief systems, boundary systems, diagnostic systems, and interactive control systems. The implementation mechanism of Anthony and Govindarajan (2001) framework could be discussed in Simons (1995) four levers of court levers of court

## 3. Methodology

3.1. Sampling and data collection methods

The researchers focused on the primary data collection methods of interviews and their day to a regarding regarding their day-to-day operations and observed their organizational structure. The questionnaire of include three separate the study had been designed to include three separate parts (Part A, B, and C) in order to employees in issue to respondents of the study. In part A, demographic information of the employees in gender, age, cooperative societies was gathered. They are the name of the organization, gender, age, and of amployees. educational qualification, nature of the business, working period, and no of amployees.

parts B and C, are MCS-related variables and performance variables, such as independent and dependent variables of this research. Here five Likert scale methods have been used. The total population of the study are as follows.

**Table 1: Population** 

District	Population	Propose 1 S
Jaffna Mullaithevu	1213	Proposed Sample (50%) 607
Manner	220 193	110
Vavuniya	231	97 115
Killinochchi	193	97
B 1 1 6		1026

Source: Department of Cooperative Development (2012)

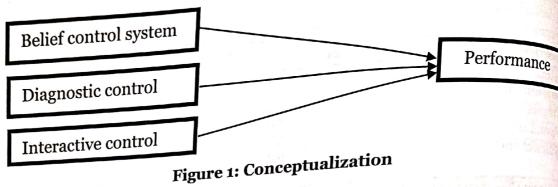
Table 1 shows that around 2050 cooperatives are registered in the Cooperatives Department, but the nature of the business, amount of capital invested, and the number of employees working is different. Further, some of them are branches of a cooperative society. Therefore, researchers decided to select 50% of cooperatives in each district.

The researchers issued 1026 structured questionnaires among cooperative societies using the stratified random sampling method, but only 319 completed questionnaires were received.

Table 2: Operationalization of Variables

Concepts	Variable	Indicator	Measurement
Demographics	Gender	at the contract	Questions Part A
variables	Age		(a −j)
	Educational level	•	
Employment	Working Years		
•	Belief control	Mission and vision	Part B
	system	statements	(6,7,8,9,10)
		Core values	
	Diagnostic control	Budgetary	Part B
	Diagnostic collect	performance	(19,20,21,22,23)
		Variance analysis	
		Costing	
	Interactive control	Customer	Part B
	Interactive control	satisfaction	(11,12,13,14,15)
		Meeting	
		Participating in the	
		decision-making	
		process	
Performance	Financial	Changes in ROI	Part C
	performance	Changes in market	(1,2,3,4,5,6,7,8)
	periormance	share	and the state of t
Some		Changes NP	The second secon

# 3.2. Conceptualization of the study



3.3. Hypotheses development & model specification The following research model and hypotheses are developed based on Jamil and Rapiah (2013); Darja and Metka (2008) studies' findings.

Ho: There is no significant relationship between the management control system and

H1: There is a significant relationship between the management control system and the performance the performance

4. Data analysis

Data Analysis is the process of systematically applying statistical and/or logical techniques to describe and illustrate, condense and recap, and evaluate data. For this study, researchers used the following statistical tools and methods have been utilized to analyze the data.

- Descriptive statistics
- Inference statistics

A binomial logistic regression predicts the probability that an observation falls into one of two categories of a dichotomous dependent variable based on one or more independent variables that can be either continuous or categorical. In this study, the researcher has three independent variables that are categorical and a dependent variable that is also categorical.

$$P = \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \varepsilon$$

Where P is Performance X, is Belief Control X2 is Interactive control X3 is Diagnostic control

4.1. Demographic presentation of employees

Generally, individuals considerably differ with this socio-demographic profile like gender, educational level, age, monthly income market educational level, age, monthly income, marital status, and religion. The following Table 1

summarizes and presents information with regards to the demographic profile of the respondents.

**Table 3: Frequency Analysis** 

	9.7 k	Frequency	Percent	Valid Percent	Cumulative Percent
Gender  Age  Education Level	Male Female Total 20-30 31-40 Over 41 Total School Level University	266 53 <b>319</b> 81 224 14 <b>319</b> 207	83.4 16.6 <b>100.0</b> 25.4 70.2 4.4 <b>100.0</b> 64.9 35.1	83.4 16,6 <b>100.0</b> 25.4 70.2 4.4 <b>100.0</b> 64.9 35.1	83.4 100.0 25.4 95.6 100.0 64.9 100.0
Working Years	level Total 0-5 6-10 11-15 More than 16 Total	319 127 96 75 21 319	39.8 30.1 23.5 6.6	39.8 30.1 23.5 6.6	39.8 69.9 93.4 100.0

Source: SPSS output

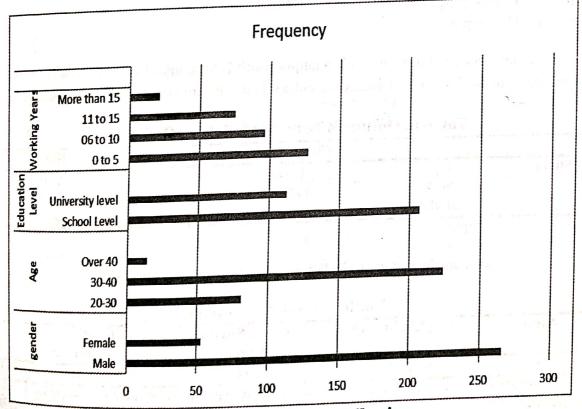


Figure 2: Frequency Distribution

**Table 4: Case Processing Summary** 

Unweighted Cases <sup>n</sup>	Table 4: Case 110c.	$oldsymbol{N}$	Percent
Selected Cases	Included in Analysis	319	100.0
Selected Cases	Missing Cases	0 1 1	۰۵.0
	Total	319	100.0
Unselected Cases	,	0	.0
Total		319	100.0

a. If weight is in effect, see the classification table for the total number of cases.

Source: SPSS output

The case processing summary shows that 319 respondents have participated in the study and there is no missing information.

Table 5: Block o Classification Table

Observe	d	- da	Predicted Perfe	Percentage Correct	
	· - ·	1 **	Lower performance	High Performan	
Step o	Performance	Lower	0	26	.0
		performance			.0
		High	O	293	100.0
		Performance		-90	100.0
	Overall Percenta	ıge	the state of the same of the same of the same	And the state of t	
a. Constar	nt is included in th	0 m a d . 1		Há <sub>s</sub>	91.8

Above Table 5 shows the Block o output which is for a model that includes only the constant. A higher level of performance is indicated by (293/319) the 91.8% in the model.

Table 6: Omnibus Tests of Model Coefficie

Step 1	Chi-square	el Coefficients	5
Step Block	46.922	df	Sig.
Modul	46.922	5	.000
Source: SPSS output	46.922	5	.000
<b>71</b>		5	.000

The overall model is statistically significant,  $\chi_2(5) = 46.922$ , p < .05.

Step -2 Log likelihood	7: Model Summary	<sup>22</sup> , <i>p</i> < .05.
a. Estimation terminated at iteration less than .001.  Source: SPSS output	COX X C	
C. Brss output	Decause paramet	er estimates changed by

b. The cut value is .500 Source: SPSS output

This Table contains the Cox & Snell R Square and Nagelkerke R Square values, which are both methods of calculating the explained variation. The management control system will influence performance ranges from 13.7% to 31.7% depending on the reference of Cox & Snell  $R^2$  or Nagelkerke  $R^2$  methods, respectively.

**Table 8: Hosmer and Lemeshow Test** 

Step	Chi-square	df	Sig.
1	3.613	5	.606

Source: SPSS output

Above table Homers and Lemeshow test results revealed that there is no statistical significance because p>0.05. A non-significant chi-square indicates that the data fit the model well.

**Table 9: Classification Table** 

·	Observed Predicted Performance		Percent Correct	
		Lower performance	High Performance	
Step	Performance Lower performance	10	16	38.5
1	High Performance	6	287	98.0
	Overall Percentage	1 70 1 1 1 1 1 1 2 2 2	and a pro-	93.1

a. The cut value is .500 Source: SPSS output

Table 9 shows a high level of performance through the percentage of correctly predicted cases with the observed characteristic compared to the total number of cases predicted as having the characteristic. Here (287/(16+287)\*100 = 94.71%, all cases predicted as having a higher performance level 94.71% is correctly predicted.

The lower level of performance is (10/(10+6)\*100=62.5%. That is, of all cases predicted are not in a higher level of performance, 74.3% were correctly predicted. The overall percentage is 93.1%.

Table 10: Variables in the Equation

	1 able 1	IU: Variani	CS III the	Dquation			
		В	S.E.	Wald	df	Sig.	Exp(B)
Step	BC			17.974	2	.000	
1 <sup>a</sup>	Belief Control(1)	436	.852	.261	1	.609	.647
21/24	Belief Control (2)	4.377	1.279	11.710	1	.001	79.559
	Interactive Control (1)	2.850	.627	20.642	1	.000	17.295
	Diagnostic Control	2.000	11	5.121	2	.077	
	Diagnostic Control(1)	-1.683	.870	3.739	1	.053	.186
	Diagnostic Control(2)	-2.002	.890	5.055	1 1	.025	.135
A A T	Constant	1.903	1.066	3.187	1	.074	6.704

a. Variable(s) entered on step 1: Belief Control, Integrative Control IA1, Diagnostic Control.

Source: SPSS output

In Table 9 belief control (2) and integrative control (1) had a statistically positive In Table 9 belief control (2) and integration influence on the performance of cooperative societies, but diagnostic control (2) had a influence on the performance of cooperative societies. influence on the performance of cooperative societies, negative statistical significance relationship with the performance of cooperative societies.

Performance=1.903+4.377beliefcontrol+2.850Inteactivecontrol-2.002 Research model is Dignosticcontrol

5. Discussions and conclusion Generally, males are working in cooperative societies. The analyzed results indicated that 83.4% of respondents are male and the remaining 16.6% of respondents are female. School leavers are joining this field. Analysed data revealed that logistic regression model was statistically significant,  $\chi_2(5) = 46.922$ , at 0.05 significant level (p < .05). The model explained 31.7.0% (Nagelkerke R2) of the variance in performance and correctly classified 93.1% of cases. The belief control system is related to the organizational culture of the firm where it is surrounded by the shared vision and mission. This study was found not to be significantly related and contribute to the level of cooperatives performance. In Northern cooperatives societies, there is a moderate level of belief control which has a positive relationship with performance. The relationship is statistically significant at 0.05 levels. Hunt and Auster (1990) suggest that firms should integrate belief control systems in performance management system design to increase people's willingness to share knowledge to create values and change their beliefs in measuring performance. This result is in line with Hunt and Auster (1990) findings. The study suggested to cooperative societies sharing the vision, mission, and objectives of cooperatives among their staff will lead to higher performance of cooperatives. In some cooperatives, employees are not aware of their objectives. Therefore, information about who they are, what are they doing, and how are they doing it should be communicated to their staff.

There is a lack of an interactive control system in cooperatives societies. The lower level of interactive control system has a positive significant relationship with performance. Henri and Journeal (2010) found a positive significant relationship. The study suggested that the use of an interactive control system would not increase cooperatives' performance unless top management and employees are involved with the relevant knowledge and skill sharing. The present study results show that without staff knowledge and skill, the result performance will not improve. However, Simons (1995) suggested an interactive control system may enhance the performance of the form enhance the performance of the firm. The study suggested having a monthly meeting with employees which will lead to better performance of cooperatives.

In many cooperative societies, there is a centralized account-keeping system. Branches of the cooperative society were not preparing proper financial records for their operations, Further, they do not have the many the proper financial records for their operations. Further, they do not have the proper human resource for this task too. Therefore, they faced more difficulties in measuring their resource for this task too. they faced more difficulties in measuring their performance accurately. Further, most of the cooperative societies are earning losses and branches do not have the proper facilities to run their business. In most cases, a single person is their business. In most cases, a single person is maintaining a branch. Therefore they faced more difficulties in measuring their performance and performance as a single person is maintaining a branch. Therefore they faced more difficulties in measuring their performance accurately. As Schaltegger et al., (2003) mentioned a diagnostic control system, such as an accounting information system, is actively important in communicating practice and strategy to stakeholders, Therefore, by actively applied diagnostic control systems, stakeholders, their applied diagnostic control systems, stakeholders know that management monitors their

performance frequently with appropriate tools which is the proper design of a performance management system. Diagnostic control has a negative significant relationship with performance. It shows that employees do not like to work under a traditional management control system. Therefore, valuation standards and incentives schemes of employees should be modified. Cooperative societies make up a large part of Sri Lanka's economy. Cooperatives are an essential source of employment opportunities and are estimated to contribute about 35% of employment. Therefore, researchers believe that awareness of management control systems is essential to corporative societies' staff in the Northern Province of Sri Lanka.

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