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THE RELATIONSHIP BETWEEN MEMBER FINANCIAL LITERACY AND LOAN REPAYMENT IN SAVINGS AND CREDIT CO-OPERATIVE SOCIETIES IN UASIN-GISHU COUNTY, KENYA

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ABSTRACT: Financial literacy is the possession of knowledge, skills and attitudes that enable an individual to use money effectively by making sound informed financial decisions, it plays a critical role in Savings and Credit Co-operative Societies (SACCOS). SACCOS are vital financial institutions that encourage thrift to give loans to members; however, Loan Repayment (LR) poses a threat to SACCOS' sustainability. The main objective of this study was to examine the relationship between Member Financial Literacy (MFL) and LR in SACCOS. Specifically, the study - (i) assessed the MFL in SACCOS (ii) determined the influence of MFL in SACCOS on LR. The study adopted cross-sectional research design whereby 384 members and 147 SACCOS were drawn using simple random sampling techniques. A survey, in-depth interview and Focus Group Discussions (FGDs) were data collection methods. Binary logistic regression was used to analyse quantitative data while qualitative data were analysed using content analysis technique. Results revealed that MFL in SACCOS were low. The MFL were on budgeting, savings, debt management, and bookkeeping. Other indicators of MFL were financial capability, awareness and goal. Attitudes, beliefs and perceived power shaped financial behavior increasing the chances of member LR. The study concludes that MFL was crucial on determining LR. It recommends SACCOS' board members and managers to provide education on MFL in SACCOS before disbursing any loan and after to improve LR.

KEYWORDS: member financial literacy, loan repayment

INTRODUCTION

Savings and Credit Co-operative Societies (SACCOS) are forms of co-operatives offering financial services in form of loans, they have an estimated over \$ 1.2 trillion loans; but Loan Repayment (LR) poses a threat (WOCCU, 2017). SACCOS improve members' financial knowledge through education on Member Financial Literacy (MFL). A World Bank (2018) report acknowledges financial literacy as a global life skill important on financial decision-making. World Bank (2018) survey as cited by Demertzis and Batsaikhan (2018) rates financial literacy in United States at 57%, Europe 50%, Africa 33%, Asia 28%, Tanzania 40% and Kenya 38%.

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The fifth Co-operative Principle requires SACCOS to promote Co-operative Education (CE) to overcome LR challenges. LR difficulties in co-operatives is worldwide, Countries with Credit Unions that are the same as SACCOS such as Argentina, Chile, Brazil, India and Uruguay are equally affected (Musabwasoni et al., 2018; Ng'ondi, 2013). Peoples' inadequate financial skills lead to wrong financial choices resulting to poor LR (Singh and Garg, 2018).

Financial literacy is defined as the skills, attitudes and behavior on how to make financial choices to optimize money use (Fernandes and Netemeyer, 2014). Financial skill is the ability to budget, save, manage debt and do bookkeeping decisive on member LR; they are influenced by financial attitudes. Financial attitudes are beliefs and values influencing behaviors like self-control, planning and making sound financial choices. Financial attitudes indicators were financial capability, awareness and goals. Financial awareness is knowledge about money, it transforms to a financial ability or capability and goals imperative to LR.

LITERATURE REVIEW AND THEORETICAL UNDERPINNING

Many SACCOS in Africa such as Ghana, Kenya and Tanzania experienced problems collecting back borrowed loans making it necessary to re-examine MFL (Mmari and Thinyane, 2019; Tehran et al., 2014). A study in Ghana by Yeboah and Oduro (2018) indicates that in Credit Unions loan default was a big concern. In Tanzania; Ministry of Agriculture, Food, Security and Co-operatives report indicates that out of 5424 registered SACCOS, only 1 346 (25%) were active (Ndiege et al., 2016). Further, TCDC (2018) report indicates that Tanzania shillings 1 299. 66 billion were issued as loans and 490.33 billion (37%) was still outstanding.

Kenyan SACCOS contributes 45% of the Gross Domestic Product (GDP); Kenyan Vision 2030 Policy aims at using SACCOS to achieve economic development, however LR is a threat (MITCD, 2017). Efforts to improve LR including starting co-operative education day, enhancing education and credit committee's trainings have bore no fruits as LR problem persists. In deposit taking SACCOS; it rose from 5.23% in 2016 to 6.14% in 2017 and 6.30% in 2018 as shown on Table 1.

Table 1: Trends of Un-Repaid Loans in SACCOS in Kenya					
Year	2016	2017	2018		
Loans in Billion Kenya Shillings	297.6	331.21	374.28		
Un-repaid loan in (%)	5.23	6.14	6.30		
Source: The SACCO Societi	os Rogulator	v Authority (SAS	SRA) Report_ 2018		

Table 1: Trends of Un-Re	paid Loans in	1 SACCOS in Kenya
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Several studies including Abiodun and Harry (2016); Wanjiku and Muturi (2017) have examined the effect of employee financial literacy on Small Micro- Enterprises (SMEs). The studies found a relationship between financial literacy and performance. However, these studies were inconclusive, as they did not give clear information on the link between members and LR in SACCOS. This study aimed to examine the relationship between MFL and LR in SACCOS. Specifically, the study - (i) assessed the MFL in SACCOS (ii) determined the influence of MFL in SACCOS on LR. Literature reviewed shows that LR is an outcome of many factors such as job loss or business failure but this study has focused on MFL.

The theory of planned behavior by Ajzen (2012) was used. The theory states that beliefs, attitudes and perceived power shaped individuals' behavior and control actions. Perceived power is the presence of factors that impede or hinder a behavior. Co-operatives believe in values and ethics like self-responsibility and honesty, co-operative education prevent negative behavior that was in line with the theory. Conceptual framework on Figure 1 shows how MFL indicators such as financial budgeting, savings, financial awareness and goal were operationalised to affect timely LR. Co-operative bylaws, Act and the fifth Co-operative Principle moderates MFL skills.

Independent Variable (MFL) Skills In

Intervening Variables Dependent Variable

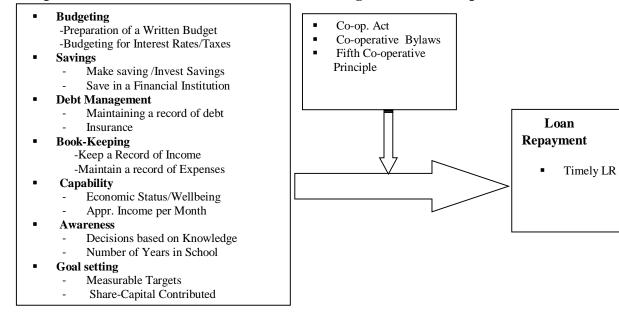


Figure1. Conceptual Framework, Key: Independent Variable Influen

METHODOLOGY

The study was conducted in Uasin-Gishu County one of the 47 Counties in Kenya, located in the Northern part of the Rift Valley. Statistics at the Ministry of Industry Trade and Cooperative Development (MITCD), Uasin-Gishu County indicated that there were 238 SACCOS as at June 2018 operating in different capacities mostly in agricultural and business. The popularity of the County in agricultural and business activities had led to increase in the number of SACCOS that was good to explore. The choice of the County was because from the records, LR was a challenge affecting most SACCOS in Uasin-Gishu County (MITCD, 2017).

Cross-sectional research design was used whereby data collections were done once to establish the pattern of variables. This design was chosen because it enabled data collections at a single point in time and facilitate consideration of several characteristics of the variable at once (Rukwaru, 2015; Flick, 2011). The unit of analysis was the members of SACCOS; financial literacy was an independent variable while LR was a dependent variable. To get members' sample size, Cochran (1977) formula for infinite population was employed such that:

$$n_0 = \frac{z^2 p q}{e^2} \tag{1}$$

Where n_0 = sample size, Z is the selected critical value, p estimated proportion of attribute, q= 1-p, e level of precision. Assuming p=0.5, taking confidence level as ± 0.5 , p=0.5, q=1-0.5=0.5, e=0.05, z=1.96

$$n_0 = \frac{(1.96)^2(0.5)(0.5)}{(0.05)^2} = 384.16 = 384$$
 members

For the sampled SACCOS, they were obtained using Mugenda and Mugenda formula, which states that if the total population is more than 30, then a sample size of 10% may be taken, therefore out of 238 SACCOS, 24 were sampled. There were six Sub-Counties in Uasin-Gishu County; therefore, four SACCOS were picked per Sub-County. Urban SACCOS were about three times more than Rural SACCOS, thus the study took ratio 3:1 of Urban to Rural SACCOS per Sub-County.

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Sub-County	Type of SA	Sampled	Sampled	
	Urban SACCOS	Rural SACCOS	SACCOS	Members
1.Kapseret	3	1	4	64
2.Turbo	3	1	4	64
3.Kesses	3	1	4	64
4.Moiben	3	1	4	64
5.Soy	3	1	4	64
6.Ainabkoi	3	1	4	64
Total	18	6	24	384

Table 2: Sampled SACCOS and Members

After determining the sample size of 384 members and 24 SACCOS, simple random sampling technique was used to pick 16 members per SACCOS because it avoided bias and accorded all members equal chances. For the SACCOS, a purposive sampling technique was used in selection of Urban and Rural SACCOS.

The key informants included County Co-operative Officers, board members, managers and co-operative trainers such as The Co-operative University of Kenya. Both quantitative and qualitative data were collected using questionnaire, key informants interview and Focus Group Discussions (FGDs) respectively. For FGDs, three different groups consisting of eight members being-County Co-operative Officers, managers and committee representatives and members were selected using simple random sampling techniques.

To remove ambiguities and vagueness on the instruments; reliability test was carried out in the neighboring County, Nandi at Nandi- Hills Ukulima SACCOS, Boresha SACCOS, Nandi Youth Bunge SACCOS and MITCD- Nandi County whereby 10% of the total sample size that were 39 members were engaged. Variables, which could have influenced the dependent variable, were isolated and controlled using research design, hence guaranteeing results the possibility of use to generalize. Cronbachs' co-efficient of reliability on internal consistency was 0.815, implying that it was greater than 0.70 hence, reliable. The study measurements criterion validity was ascertained by ensuring that instruments exhaustively captured all vital aspects and one-measure results corresponded with another respectively as stated by (Rukwaru, 2015).

The quantitative data were analyzed using descriptive and inferential statistics. Inferentially, binary logistic regression was used because LR was dichotomous; a member could do timely LR or fail. Measurements of the independent variables involved seven determinants obtained from literature review hypothesized to predict timely LR in SACCOS. Budgeting X_1 , savings X_2 , debt management X_3 and bookkeeping skills X_4 were the independent variables. Other independent variables were financial capability X_5 ,

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financial awareness X_6 and financial goal X_7 . Hosmer (1989) binary logistic model applied was as follows-

$$\pi(\tilde{\mathbf{x}}) = log\left[\frac{\pi(\tilde{\mathbf{x}})}{1-\pi(\tilde{\mathbf{x}})}\right] = \beta_0 + \beta_1 \mathbf{x}_1 + \beta_2 \mathbf{x}_2 + \dots + \beta_p \mathbf{x}_p + \mathbf{e}$$
(2)

Where $\pi(\tilde{x}) = log\left[\frac{\pi(\tilde{x})}{1-\pi(\tilde{x})}\right] = Y$, the probability of LR indicated was binary measured by one for LR and zero for otherwise, β_0 - was constant term, β_1 - β_p - was coefficients of regression and e error term. For qualitative analysis, data from interviews on key informants was transcribed, coded and classified into themes, it was then analysed based on the content within the thematic areas. This information complimented quantitative data. The measurement levels for quantitative data were-

Variat	oles	Measurements	Type of Variable
MFL-	Budgeting - X ₁	1 if a member makes a budget and 0 for otherwise	Predictor
Skills	Savings -X ₂	Amount saved in SACCOS	Tredictor
	Debt Management -X ₃	Number of trainings on debt management attended	
	Bookkeeping -X ₄	Number of trainings on book-keeping attended	
	Finan. Capability X ₅	Approximated income per month	
	Finan. Awareness -X ₆	Number of years in school	
LR	Finan. Goal- X7 Loan Repayment	Members' share-capital 1 if repaying a loan and 0 for otherwise	Dependent

 Table 3: Independent and Dependent Variables Measurement Levels

RESULTS AND DISCUSSIONS

The aim of this study was to examine the relationship between MFL in SACCOS and LR; this was in the light of dwindling LR in SACCOS. Financial literacy variable was tested on LR because literature reviewed (Lusardi, 2019; World Bank, 2018; Wanjiku and Muturi, 2017) hints at a possibility of a relationship between the two. From this objective, the study tested the hypotheses that - (i) There is no significant relationship between MFL and LR in SACCOS, H_0 = or > than 0.05; and (ii) There is a positive significant relationship between MFL and LR in SACCOS, H_4 = < than 0.05.

The study examined the respondents' social demographic characteristics in order to understand the source of information and link to the objectives. More than half of the respondents (61%) were male while (39%) were female. For the respondents' ages, those who were between 45-54 years were less than a half (41%); 35-44 years were a quarter

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(25%). Less than a half (41%) of the respondents were with tertiary education, members with secondary education were (39%) while the rest of the members were having primary education and below. The types of SACCOS engaged were:- Rural SACCOS 25% and Urban SACCOS 75%.

	Members (N=384)	Frequency	Cumulative (%)
	. ,	(%)	
Sex			
Female	150	39	39
Male	234	61	100
Age			
18 - 25 years	40	10	10
26 – 34 years	47	12	22
35 – 44 years	96	25	47
45 – 54 years	156	41	88
55 + years	45	12	100
Educational			
Non-educated	27	7	7
Primary	50	13	20
education			
Secondary edu.	150	39	59
Tertiary	157	41	100
education			

Table 4: Members' Social-Demographic Characteristics (N=384)

The findings on Table 5 indicate that (38%) of the members were having budgeting skills. This implies that these members' money was controlled by spending plans, which promotes self-control financial behavior, patience and financial stability increasing the probability of member LR. These finding confirms the World Bank (2018) report indicating the low financial literacy among people that was (38%) in Kenya. Kinyuira (2017) study on the impact of co-operative education and training on performance observed that most SACCOS were not providing co-operative education to members likely to affect SACCOS' activities. Co-operative education is important because it enlightened members on financial attribute budgeting and related co-operative ethics such as honest and self-responsibility significant to LR.

For debt management, (32%) had the skill; this suggests that members were aware about the importance of debt management; however, more education on financial literacy was likely to improve it as indicated by (Lusardi and Tufano, 2015). Members with saving culture were also 32%, this implies that although savings were SACCOS' loaning power,

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most of the members were not keen to save. This finding adds knowledge to (Mmari *et al.*, 2019) study on financial performance of SACCOS in Lesotho that stated that SACCOS members were not making adequate savings inhibiting member LR capability. Members with bookkeeping skills were only 31%.

This meant that most members were having no written plan of expenditure confirming Lusardi (2019) finding that people without a record of expenses were risking financial instability due to over spending. On financial capability, it was 30%; financial awareness was 29% while financial goal was 28%. The implication of the finding is that the members had these abilities, which explains the World Bank (2018) survey that indicated that people were financially literate but required frequent education as a reminder.

Variable	Total	Number of Members (Percentage (%)
	Members(N)	n)	
Budgeting	384	146	38
Debt	384	123	32
Management			
Savings	384	122	32
Bookkeeping	384	120	31
Capability	384	116	30
Awareness	384	112	29
Goals	384	108	28

Table 5: Member Financial Literacy Status in SACCOS

The findings on LR on Table 6 indicate that out of the 384 members sampled, 56% were between excellent and good, meaning those who were excellent were making timely LR, the members that were good at times had minor cases of default. This result confirms the high rate of defaulted loans in SACCOS as found by Mutegi *et al.* (2015) in a study on financial literacy and LR. Soni and Saluja (2018) opined that more member enlightenment was required in SACCOS for members to learn the importance of their roles and responsibilities, implicit is self-responsibility.

The members who were not repaying loan were 44%. The implication of Soni and Saluja (2018) finding fits the theory of planned behavior by Ajzen (2012) on perceived power and behavior change. Perceived power is a measure taken to hinder occurrence of a behavior like loan default. Further, it suggests that loan default was a behavioral problem in SACCOS calling for urgent intervention.

Vol.8 No.1, pp.9-22, June 2020 Published by ECRTD- UK

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Members N= 384		Loan F	Repayment S	tatus	
	Excellent	Good	Poor	Very Poor	Per (%)
156				1001	56
59		\checkmark			
119			\checkmark		44
50					

Table 6: Members Loan Repayment Status in SACCOS

Records from Uasin-Gishu County Co-operative Enterprises Development Office shows that the County Government of Uasin-Gishu; loaned SACCOS members through 132 SACCOS as shown on Table 7. The amount is in Kenya Shillings in (millions); in 2014, 120 million Kenya Shillings was disbursed and Kenya shillings 41 million were defaulted represented by 34.2%, this means that members were lacking the skills to use and returned money. Wanjiku and Mutari (2017) study on financial performance of employees in church confirms that employees who were budgeting always had enough money for other tasks positively affecting LR status.

Wanjiku and Mutari (2017) finding was contradicted by Kumbhat (2016) study which stated that continuous member enlightening on co-operative values and ethics such as self-responsibility and honest increases the probability of Credit Unions success on LR. In 2015 out of Kenya Shillings 250 million given out 107.5 were defaulted indicated by 43%, this implied that there were a rising loan default trend. The defaulted loan in 2016 was 45% and for 2017, it was 47%. About 2018, defaulted loan was 49%. The finding suggests that SACCOS' members encounter difficulties repaying loan and therefore re-examining MFL was a necessity.

Table 7: Uasin-Gishu County Funds Loaned To Members Through SACCOS in (Million Ksh.)

Number of Education on MFL	148	142	157	145	162
Loan					
Percentage (%) of Un-Repaid	34.2	43.0	44.9	47.0	48.5
Un Repaid Loan	41	107.5	195.5	141.9	273.6
Loan Repaid	79	142.5	239.5	160.1	290.4
Disbursed Loan	120	250	435	302	564
Loan (N=132)	2014	2015	2016	2017	2018

Source-Uasin Gishu County Co-operative Office-Risk Management-Department

The Implications

The implications of MFL on LR were obtained by running the binary logistic model whereby the probability of timely LR was one and zero for otherwise, the results were

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shown on Table 9. From the model $\pi(\tilde{\mathbf{x}}) = \log \left[\frac{\pi(\tilde{\mathbf{x}})}{1-\pi(\tilde{\mathbf{x}})}\right] = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \ldots + \beta_p x_p \ldots$ (3)

$$\pi(\tilde{\mathbf{x}}) = \log \left[\frac{\pi(\tilde{\mathbf{x}})}{1 - \pi(\tilde{\mathbf{x}})} \right] = 2.298 - 1.862x_1 - 1.900x_2 + 1.033x_3 + 0.902x_4 + 0.340x_5 + 1.843x_6 + 0.332x_5$$

+ 0.332x₇ Where $log\left[\frac{\pi(\tilde{x})}{1-\pi(\tilde{x})}\right] = Y$ was the probability that a member will do timely LR .The odds was $log\left[\frac{\pi(\tilde{x})}{1-\pi(\tilde{x})}\right]$, therefore, prediction was on the probability of increase or decrease on the log of odds of $\pi(\tilde{x})$. From the model, when X₁, X₂, X₃, X₄, X₅, X₆ and X₇ equals to zero, log odds of Y was 2.298, meaning that if other variables were held constant, member budgeting , savings, debt management ,bookkeeping, capability, awareness and goal decreases the probability of a member not repaying loan by 2.298 times. This suggests that to address LR, it was necessary for members to have these skills. Exponential B indicates that all these variables predicted LR by 9.040. From the model results on Table 9, a unit increase on budgeting, savings and debt management decreases the odds of a member not repaying a loan by (-1.862), (-1.900) and (1.033) respectively. Again, a unit increase on financial awareness and bookkeeping decreases the odds of LR by (1.834 and (0.902) compared to (0.304) and (0.332) for financial capability and goal.

Variable	В	S.E.	Wald	р	Exp(B	95% (C.I.for
				_)	EXI	P(B)
						Lower	Upper
Constant	2.298	0.326	7.008	0.000	9.040		
Budgeting	-1.862	0.344	33.922	0.000*	1.196	2.409	4.240
X ₁							
Savings	-1.900	0.350	15.058	0.000*	2.000	1.000	1.001
X_2							
Debt Man.	1.033	0.307	24.746	0.000*	1.067	0.955	0.980
X_3							
Bookkeeping	0.902	0.207	21.458	0.031*	1.000	0.877	0.987
X_4							
Capability	0.340	0.087	11.340	0.451	0.507	0.459	0.567
X_5							
Awareness	1.834	0.398	33.876	0.001*	1.186	2.398	4.140
X_6							
Goal X		0.245	10.870	0.464	0.502	0.359	0.478
7	0.332						

Table 9: Relationship between MFL and LR

*Significant at P<0.05

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The p values for all predictor variables were less than 0.05 implying a positive significant relationship with LR except for financial capability and goal. Cox and Snell was 0.421 and Nagelkerke R was 0.544, this indicates that the model predicted between (42 and 54%) of the results, -2 log likelihood was 274.865. Hosmer and Lemeshow test p value was 0.000, on the classification Table, the overall percentage was (81.5). This shows that the model predicted correctly 81.5 % of the results. Pearsons' correlation as indicated by the Omnibus test shows that all the variables on the model fitted well the model and were statistically significant; chi-square was (251.949, significant at 0.000). From these results, null hypotheses (H₀) that stated that there is no significant relationship between MFL and LR was rejected at 0.05 level of significant and the alternative hypothesis accepted.

CONCLUSION

The aimed of this study was to examine the relationship between Member Financial Literacy (MFL) and Loan Repayment (LR) in SACCOS. To achieve this aim, two specific objectives were addressed. The first specific objective was to assess MFL in SACCOS; it was concluded that MFL in SACCOS were low and that they were budgeting, savings, debt management and bookkeeping. Other MFL abilities were financial capability, awareness and goal. The MFL was very critical to LR; it affected financial behavior.

The second objective measured the influence of MFL and LR; the study concluded that there were a positive significant relationship between MFL and LR. The study partly confirmed the theory of planned behavior; financial attitudes, beliefs and perceived power shaped positive financial behavior increasing the chances of member LR. However, the theory of planned behavior were partly contradicted; in isolated cases, positive financial attitudes turned negative especially when members make overambitious loan demand leading to multiple borrowing increasing the risk of loan default. About budgeting, it placed a member in a better position to have self-control, patience and financial stability increasing member probability of LR. Savings play an important part on increasing members' opportunities for LR by having readily available money. Members that were having a saving culture were able to make timely LR compared to those that were not. Debt management and bookkeeping skills equally decreases the member possibilities of defaulting on LR, however, debt management skill predicted LR most compared to bookkeeping.

Provision of financial literacy education before giving out loans positively affected timely LR. Education on financial literacy skills was in most cases limited to only those offered by the auditors during Annual General Meetings (AGMs). Although this study focused on MFL, LR was an outcome of many other factors such as climate change, business failure, job loss, high interest rates, multiple borrowing, and misuse of borrowed loans, internal controls and loan policies. The low LR in SACCOS was a threat to SACCOS' survival.

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Recommendations

The study recommends to SACCOS' managers and board to provide education on budgeting, savings, debt management, bookkeeping, financial capability, awareness and goal as topical issues to improve LR. The study also recommends to SACCOS' managers and board members to make it a requirement in SACCOS to provide education on financial literacy before taking a loan and after. Frequent reminders and penalties should be sent to those who failed to repay loans while rewards and recognition of efforts should be made for members making timely LR. More education on MFL should be directed to Rural SACCOS compared to Urban SACCOS.

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