Placement of Shared Leadership in between Enterprise Resource Planning and Human Resource Management Implementation

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Abstract--- The study aimed to identify the placement of shared leadership in between Enterprise Resource Planning (ERP) and Human Resource Management (HRM) implementation. The following study is mainly characterized with the quantitative research design which has been selected considering the nature of the study. The present study is focused towards assessing the mediating effect of shared leadership in between ERP and HRM implementation. In this manner, the researcher has used positivism philosophy of the research along with the deductive approach which assisted the research in data collection and carrying out analysis. The questionnaire is distributed to 348 sample size to get the respondents. The results has revealed that the overall influence of shared leadership in between ERP and HRM implementation was identified to be significant. However ,there was partial mediation in terms of leadership types, characteristics of leadership with respect to HRM implementation. The following study has identified the placement of shared leadership in between HRM and ERP in the manufacturing sector of Vietnam. Moreover, there were certain limitations on this study which can be taken into consideration by the future researchers.

Keywords---- Shared Leadership, ERP, HRM Implementation, Vietnam.

I. Introduction

The upgradation at the contemporary business market is altering the roles of all the departments. Same has been experienced in the context of human resource managementand team formation. In correspondence, teams are widely being considered as crucial determinant of upgrade tasks (Solomon,2019). Same has been expected when the organizations tendtoinstalltechnologicalassistanceattheworkplace. Forinstance, tremendous information systems are being integrated at the operational units of recentorganisations. These information systems are implanted to assist the employees in their operational activities. Contrastingly, employees consider them as a negative change that results in resistance and failure of induced information technology at the workplace. Inresponse, the role of leaders is observed to be critical in educating the employees aboutbenefits of new change with reference to technological support. However, it becomescrucial for a single leader to persuade the behaviour of the entire organisation. Therefore, the concepts of shared-leadership are established under which a team of leaders share theresponsibility of changing the employees' behaviour. In this regard, the following studyhas been formulated to determine the importance of shared leadership in ERP and HRMimplementationinthe contextofhigh-techorganisations.

Humanresourcehasbeenacriticalcomponentofeverybusiness.Inaddition,thetraditional human resource practices are upgraded with induction of technology as a result Human Resource Management System(HRMS)has been established. Thistechnological system makes the human resource processes easier and more accurate byminimizingthehumanerror.Similarly,otherformsofinformationsystemsuchasEnterpriseResourcePlanning(ERP)area lsodevelopedtopassistthefirmsinmanagement of their supply chain and customer relations (Galli, 2019). Both of theinformationsystems are designed for assisting the firms and smoothening their operational activities. Under this regard, the HRMS is centric to human management practices only whilst customer service and supply chain is backeduptheERPinformation system (Hoch and Dulebohn, 2013; McCleskey, 2018). Consequently, themanagement of contemporary businesses are obliged to operate with both the systems foran effective management. The implementation of both the software is multidimensional with respect to their outcomes at the organisation. For instance, HRMS is more widely successful as it outlines limited exposure of software at the organisation. On the otherhand, businesses encounterextensiverisks while implementing ERP. Altogether, it becomes critical for the businesses to extract an effective implementation and outcome from both the information systems (Seo, 2013).

Therefore, a middle way is obligatory to be inaugurated by the firms to enlist effectivemeasures for inducing success with technological upgradation. This is why the concept ofshared leadership is placed to assist firms in enhancing the efficiency of information system adaptation. Shared leadership reflect formation of ateamratherthanallotmentofasingleleaderforleadingtheentireorganisation.Furthermore,thecompaniesinVietnam are considered to be as the huge investment opportunity as the country hasgained long-term success in the East Asian countries and hence it required effectivemanagement of the resources which also includes employees (Wee, 2017). Furthermore,the economists in Vietnam has also explored that the reason for the sudden growth in theeconomy was based on the FDI along with the young educated population. Since theeconomic condition in the country is increasing, this is the reason that companies are likely to expand and invest in already existing companies present in

Vietnam. For thispurpose, it is necessary that the companies should implemented strong leadership andsoftwareimplementationwhichcanimprovisetheHRMprocesswithinthecompanies.Inthisregard,theroleofsharedlead ershipisquitecrucialasittendstodeliverappropriate measure of practice to boost the productivity of information software. This isthepointthat hasbeencritically evaluated in the current study.

To study and evaluate the concept and significance of shared leadership.

To evaluate the importance of ERP and HRM implementation.

To assess the placement of shared leadership in between ERP and HRM implementation.

II. Literature Review

Leadership is determined as act of steering the employees and redirecting them towards a common goal. In this regard, the leader is considered as the personnel that govern whilst the people are termed as followers. Many researchers have been performed to evaluate the role of leadership on the productivity of employees. For instance, McCleskey (2018) investigated the relationship of leaders and organisational performance. The author figured out that organisational performance is positively and significantly related to the leadership style adopted and practiced at the organisation. Similarly, Galli (2019) evaluated the role of a leaders and manager in developing the people. The authors figured out that leaders yield productive workforce that in turn formulate a competitive edge for the organisation whilst manager are limited towards enhance productive activities only. In addition to management and leadership, a third concept of shared leadership has been recently embedded in the contemporary business world. Shared leadership is a broader distribution of leadership roles and responsibilities among a team to lead the entire organisation. (Hoch and Dulebohn, 2013). In simple words, no single leader is responsible for redirecting the organisation, instead, leaders from differentdepartmentsareallottedforthisrole.

It has been outlined from the literature that HRMS and ERP are considered to be a crucial addition to the businesses. It is because, HRMS upgrade traditional processes of HRM that initially becomes difficult for adaptation (D'Innocenzo et al., 2016). However, Sweenev et al. (2019) argued that HRMS proves to be a positive addition to the businesses in the context of long-term. In contrast to this, ERP is criticized with higher rate of failure. In support, Chiu et al. (2016) claimed that ERP implementation are quite complex and encounter resistance among the employees whilst HRMS is considered more user-friendly information software by Hoch and Dulebohn (2013). In this regard, already a debate has been outlined from the literature claiming the rate of failure and adaptability among HRMS and ERP. However, it has been also highlighted from the literature that efficiency of both the software is effectual with employee's tendency and adaptability towards the information system upgradation (Solomon, 2019; Brown, 2017; McCleskey, 2018). Practically, it has been observed from the studies of Zhu et al. (2018) that integration of operational practices with technological support positively influence the organisational performance and competitiveness. Therefore, wider organisations are intensely inclined towards the adaptation of technological support. However, as stated by Brown (2017), two power rebel one other, same is the case with ERP and HRMS. Simultaneous practice of both the information systems become critical for the organisation specially the one that deals with high tech products such as AMOS and PLS. Hence, this aspect is to be clarified so that a mutually beneficial outcome can be practiced.

Shared leadership is designed to cultivate the factors of self-awareness at different levels of organisation as claimed in the literature. Additionally, it has been highlighted from the studies of Seo (2013) that shared leadership gets establish when different partners are brought together to work on same grounds. Further, Sweeney et al. (2019) support the fact by claiming that self-awareness among the leaders gets boosted when they have to work with other leaders as intense exchange of knowledge is experienced among them. However, it is quite difficult for different leaders to act in a collaborative manner as every new team undergoes into challenges of conflicts. At the beginning, all the team has to identify contrasting and coinciding elements of their leadership style. Later on, the team learns to develop a collaboration and practice effectual measures to redirect the organisation in the best possible way. Hence, identification of self-awareness factorsbecomes crucial for the leaders at the beginning that create another form of challenge for the firm. In response, the organisation has to monitor this aspect as well.

In association to effective management and leading strategies, the team of shared leaders exhibit a strong sense of commitment with the firm. As highlighted by Solomon (2019), different leaders work together the betterment of their firm. In doing so, the leaders let go their personal interests for the sake of organisation (Cook et al., 2019). Same has been supported by Chiu et al. (2016) with the fact that effective leaders cultivate an upgrade version of themselves through their leading strategies. In this regard, a group of leaders would result in massive production of effective workforce. This ultimately will become effectual for the organisation in a positive manner.

The reviewed literature represents a picture of shared-leadership indicating that leaders play critical role in change implementation at every organisation. However, the literature also reflects certain gaps that are not left unattended by the analysts. At first, the importance of shared-leadership in both HRM and ERP implementation is not highlighted. In contrast to this, it is defined that shared-leadership play crucial role in adaptation of ERP and

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HRM practices. Similarly, the literature reflects that leaders share responsibilities of leading their followers, but there is no explanation of hurdles that are encountered during the formation of the leading team. Moreover, the role of leadership style is also not analysed by the studies done so far. Therefore, this study has proposed a comprehensive conceptual framework to exhibit the role of self-awareness, types of leadership and characteristic of the leading team in development of synergetic shared-leadership. Moreover, the central concern of the current study is on the importance of shared-leadership in ERP and HRM implementation.

Theoretical Framework

ThefrequencyoffailureofERPhasbeenrelativelyhigherthanotherinformationsystems. Based on this fact, many researches are conducted to enlist the failure causes ofERP and address these issues (Seo, 2013). In response, the role of human behaviour hasbeen highlighted as the most influential factor that shape up the adaptation of ERPpractices at the workplace (D'Innocenzo et al., 2016; McCleskey, 2018). Practically, thebehavioural theory has been employed by a set of researchers to determine the role ofhuman behaviour in multiplying the effects of ERP installation at a workplace (Solomon, 2019). Thebehavioural theorysuggestthatanindividual adaptsacertainbehaviourthatis acceptable by him/her and thus the attitude of that individual towards the procedure isalso shaped in the same manner. In addition to this, the theory of shared leadership hasbeen formulated that indicates, leaders share responsibilities to lead an entire community. In extension, these responsibilities are shaped up by leadership styles and characteristics of the team of leaders. Therefore, it is important to consider the characteristics andleadership styles of leader while executing the theory of shared leadership along withprinciplesofbehavioural theory.

Samehasbeendeterminedbytheadaptationoftechnologyatthehumanresourcemanagement practices. In this regard, many researchers have outlined the fact that human esource practices are vulnerable to biased outcomes and decisions due to human error. However, the integration of information software in the practices of HRM has made iteasier for the management to track the performances of their employee, reward them, compensate accordingly (Brown, 2017). This shift in the traditional HRM and upgradedHRMS is a result of acceptance among the people in the department. According to thebehavioural theory, people at the HRM department indicate a positive attitude towardsHRMSthisinturnbecomeseasilyadaptableamongtheorganisation.Moreover,adaptability of HRMS also results in effective and efficientmeasures of HRM practices as they tend to quickly learn and mould their practices according to the information system. Incontrast to this, the employees find it difficult to shift their traditional practices of supply customer relation to ERP. This is because, in chain and most of the cases, employeessee ERPasa difficult adaptation that alters their performance as the employees are enforced to learn new operations. Consequently, employeesindicateanegativeattitudetowardsERP measures of that inturn results infailure of the system.

To prevent all these issues, it is essential for the management to education and shape theattitude of their employees towards the new integration in the business. This is madepossiblebyateamofleadersthatareallottedwithresponsibilitytoeducatetheemployeesaboutbenefitsofERPadaptatio nanddisseminatethefactthatthisinformation system is set to ease their traditional operational activities. According to thebehavioural theory, this is the most crucial use of shared leadership that it can change theattitudeand behaviourofemployeestowardsadaptationofinformationsystem.

Conceptual Model

Fromtheliterature, many factors are highlighted that assist in shaping a shared-leader ship in any

organisation.However,as thisstudy iscentrictowards theroleofshared leadership in adaptation of HRMS and ERP, three critical factors are highlightednamely; self-awareness, types of leadership and characteristics of the leading team. Insimple words, it has been determined that higher rate of self-awareness among the leadersresults in collaborative team. Secondly, shared-leadership becomes comprehensive withwider types of leaders in the team. Eventually, the characteristics of the entire team isimportant to shape synergetic force that in turn directs the entire organisation in aneffective manner. Altogether, these factors give rise to wide-ranging shared-leadershipthat in turn boost the outcome of ERP and HRMS. On these grounds, the followinghypothesisare formulated;

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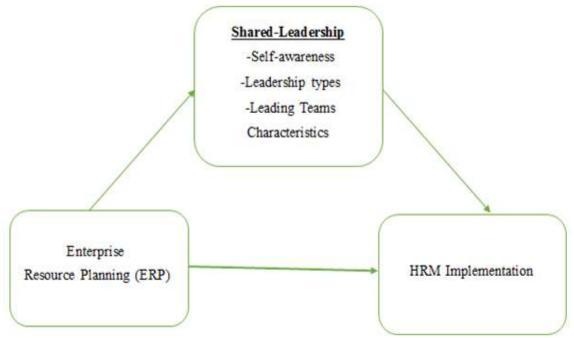


Fig. 1: HypothesisFormulated

H1: The self-awareness mediates the relation between Enterprise Resource Planning and HRMI mplementation.

 $H2: Leadership Types mediates the relation between Enterprise Resource Planning and HRMImplementation.\\ H3: Leading Teams Characteristics mediates the relation between Enterprise Resource Planning and HRM$

Implementation.

H4: The enterprise resource planning significantly influence HRMI mplementation.

III. Methodology

Research Design and Data Collection Process

The following study is mainly characterised with the quantitative research design which has been selected considering the nature of the study. The present study is focusedtowards assessing the mediating effect of shared leadership in between ERP and HRMimplementation. In this manner, the researcher has used positivism philosophy of theresearch along with the deductive approach which assisted the research in data collectionand carrying out analysis. Furthermore, the primary method of data collection has been adopted in which the researcher has gathered data through survey questionnaire which was based on 5-point Likert scale ranging from strongly disagree to agree. In addition to the above statement, the data has been collected with the employees and managers working in the manufacturing sector of Vietnam. For the purpose of approaching theparticipants, there searcher utilised different platforms where question naires were distributed that mainly includes emails. social media platforms along with the physical distribution of the question naireso thathigher responserate can be achieved.

Sampling Technique and Sample Size

The current study mainly focused on the placement of shared leadership in between ERPand HRM implementation, therefore, themanagers and employeeswho areworking in the manufacturing sector of Vietnam were approached for the filling out of questionnaire.For carrying out data collection procedure. The researcher adopted samplingtechniquewhichisknownasthenonpurposive probability sampling technique because the immediate targeted respondents we reemployees and managers of manufacturing the same set of the ssectorof Vietnam and it was difficult to gather respondents from large sample size. In this context, a total of 400 respondents we reapproached specifically the managers and employeeswho areworking in themanufacturing sector of Vietnam and out of which348 responses were gathered and hence the response rate was estimated at 91% which assured the reliability and authenticity of the results.

Data Analysis Technique

For the purpose of analysing the data results, the researcher has opted for StructuralEquation Modelling (SEM) in which path analysis along with the CFA (ConfirmatoryFactor Analysis) have been conducted. These techniques have been employed in order tocheck validity and reliability of the data constructs used for this research. In continuation of this, a blindfolding technique has also been used for carrying out the results in whichpredictive

relevance of the model has been assessed with the effective use of Q square. Inaddition to the above statement, the quality of the model was also assessed where thevalues of R-square and adjusted R-Square were taken into consideration. These tests hasbeen carried out on Smart PLS which assisted the research on the testing and clarifyingthemeasuringmodel of the study.

IV. Results

Measurement Model-partial Least Square Algorithm (PLS)

As already highlighted above, the following study is being aimed towards assessing themediating role of shared leadership in between ERP and HRM implementation and forthis essence, the SEM technique has been used for the data collection and analysing thefindings with the help of hypothesis testing. In accordance with the study carried outWong(2013), the SEM technique is distinctive because of its unique features and robustness while analysing the responses of the survey. The major section of the analysisthrough SEM is mainly dependent on the path assessment and factor analysis. The studycarried out by Brown (2012) has highlighted that in the SEM, the factors analysis is mainly supported with the confirmatory factory analysis (CFA) along with the exploratory factor analysis (EFA). Moreover, in the current study, the researcher hasfocused towards executing CFA in light of comprehending the factors which are mainly involved in the research model. However, as per the findings of the study carried out byAfthanorhan (2013), it has been proclaimed that there are certain measures of statistics which helps invalidating and comprehending the constructions. In this context, there searcher has suggested that the barrier of the statistic sector of the statilendofthefactorloading,compositereliability,convergent validity and discriminant validity helps in validating the constructs used in thestudy.

In light of the findings carried out by Yong (2013), it has been highlighted that factorloading is regarded as the statistical measure which eventually helps in determining the correlation between the latent and constructs. In addition, the measures with the threshold 0.6 are suggested that the research construct can be explained by the latent variable. Here, the lowest value for the Cronbach Alphaisestimated at 0.731 which reflects that the value is about the suggested threshold which implies that variables can be explained with the latent variable. In case of composite reliability, the lowest value estimated is 0.831 and for the AVE, the lowest value estimated is at 0.626 which implies that the variables can be explained through the latent variable. However, there was one indicator [LT1] which has been dropped from the Leadership Types [LT] because of the low factorloading and this eventually resulted in the increase of reliability of the latent constructed. Hence, there each hascomputed the final model with the omission of the variable.

	Cronbach'sAlpha	CompositeReliability	AverageVarianceExtracted(AVE)
ERP	0.837	0.902	0.754
HRMImplementation	0.925	0.953	0.871
LeadershipTypes	0.888	0.947	0.899
Leading	0.736	0.850	0.659
TeamCharacteristics			
Self-Awareness	0.731	0.831	0.626

Table 1: ReliabilityTesting

With respect to the evaluation and determination of convergent validity and reliability, it is also necessary for the researchers to significantly identify the variables distinctiveness which is based on the validity and reliability of the study (Ahram, Karwowski and Taiar, 2018). For the purpose of assessing the discriminant validity of the research, the researcher has used HTMT ratio which is mainly utilised for the purpose of determining and assessing whether the variables which has been selected for the study are distinct ornot. In this case, the maximum acceptable value for the HTMT is 0.85 which can beobserved in the most conservative criteria for the study. Hence, in the table presentedbelow, it can be observed that the values are mostly not exceeding the maximum acceptable value which eventually suggests that the variables can be utilised further forthepathanalysis as the maximum value which is computed is estimated at 0.933.

Table 2: DiscriminantValidit	vUsingHTMTRatio
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	ERP	HRM	LeadershipTypes	Leading	Self-
		Implementation		TeamCharacteristics	Awareness
ERP	0.868				
HRM	0.596	0.933			
Implementation					
LeadershipTypes	0.341	0.675	0.948		
Leading	0.372	0.299	0.201	0.812	

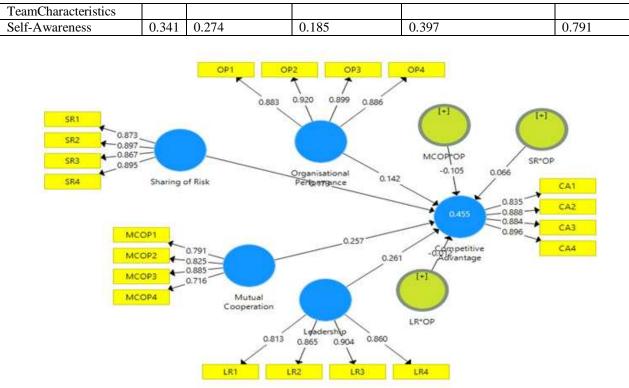


Fig. 2: MeasurementModel

Path Assessment

After carrying out the assessment regarding the model measurement which eventually assists in the determination of reliability and validity of the latent factors and constructs, the main model for the SEM has been utilised by the researcher for the purpose of testinghypothesis and significance of the variables. In this context, the bootstrapping has been utilised by the researcher for the purpose of testing and assessing the significance of thestudy. In light of the conducted study by Hair et al., (2016),the bootstrapping is mainlyregardedastheprocessforresamplingandsubsamplingthedeterminationofthesignificance. Based on the findings assessed presented in the table, be that it can the ERPhasastronginfluenceontheHRMImplementationwhichisidentifiedtobesignificantas B = 0.394, P = 0.000 < 0.05 at 5% threshold level. Moreover, the ERP has also a stronginfluence on the leadership types as the coefficient value, B= 0.341 and P=0.000<0.05 at5% threshold level. In addition to the findings, the table further reveals that ERP has apositive and significant relation with the leading team characteristics as B=0.372 and P=0.000<0.05 which is evaluated at 5% threshold level. Furthermore, the findings furtherrevealed that leadership types has a significant influence on the HRM implementation asB=0.528, P=0.000<0.05 which is evaluated at 5% threshold level. However, only two of the constructs were identified insignificant as leading team characteristics on HRMI mplementation estimated B=0.034, P=0.407>0.05 which 5% threshold as is at level.Mostly,thefindingsofthestudyaresignificantandpositivewhichevaluatesthemediatingrelationofshared leadershipinbetweenERPand HRMImplementation.

1 abic 5. 1 ann marysis	Table	3:	PathAnalysis
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	Coefficients	T Statistics	P Values
ERP ->HRMImplementation	0.394	7.837	0.000
ERP ->LeadershipTypes	0.341	7.755	0.000
ERP->LeadingTeamCharacteristics	0.372	6.558	0.000
ERP ->Self-Awareness	0.341	7.875	0.000
LeadershipTypes->HRMImplementation	0.528	13.692	0.000
LeadingTeamCharacteristics->HRMImplementation	0.034	0.829	0.407
Self-Awareness->HRMImplementation	0.027	0.673	0.501

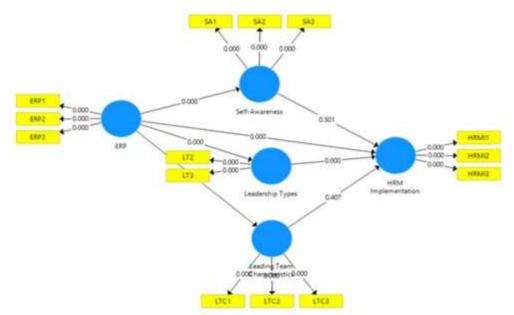


Fig. 3: Bootstrappingwithp-values

The table presented below explains the total effects of the variables which are taken for this study. Based on the findings of the study, it can be identified that the reisasignificant influence of ERP on HRM Implementation as B=0.596, P=0.000<0.05 which is evaluated on the basis of 5% threshold level. In addition, the ERP implementation has a strong influence on the leadership types as the B=.342, P=0.000<0.5. Except for the two relations which are leading team characteristics and HRM implementation, and self-awareness withrespecttoHRMimplementation. Table 4: TotalEffects

			Co-efficient	TStatistics	PValues
ERP->HRMImplementation			0.596	15.093	0.000
ERP->LeadershipTypes			0.341	7.755	0.000
ERP->LeadingTeamCharacteris	tics		0.372	6.558	0.000
ERP->Self-Awareness			0.341	7.875	0.000
LeadershipTypes	\rightarrow	HRM Implementation	0.528	13.692	0.000
LeadingTeamCharacteristics->HRMImplementation			0.034	0.829	0.407
Self-AwarenessImplementation	\rightarrow	HRM	0.027	0.673	0.501

Quality Criterion of the Model and Predictive Relevance

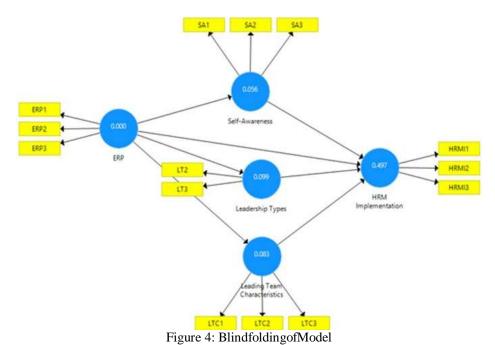
In order to carry out the quality criterion, the researcher has carried out measurementmodel analysis along with the path analysis. For this purpose, it is necessary that theresearch should evaluate the predictive relevance and quality of the model. For this purpose, it can be argued that by the study of Miller (2014) that adjusted R-square and R-Squared mainly assists in the evaluation of the quality of mode. In this respect, the resultswhichareportrayedinthetablebelow

explains the significance of the variance in different factors for the shared leadership and its relation with the ERP and HRM implication of the state of theementation.Moreover,fromtheresultspresented in the table below it can be assessed that HRM implementation R-square is estimated 0.610 where the adjusted R-square is estimated at 0.606. Moreover, the leadership types have r-square of 0.116 and adjusted r-square is evaluated at 0.114. In addition to the above statement, the leading team characteristics R-square is evaluated at 0.139 with the adjusted R-square of 0.136 which predicts that the study holds predictive relevanceofthestudyconstructs.

	RSquare	RSquareAdjusted
HRMImplementation	0.610	0.606
LeadershipTypes	0.116	0.114

Table 5: OualityAssessment oftheModel

LeadingTeamCharacteristics	0.139	0.136
Self-Awareness	0.116	0.114



Summary of Hypotheses

Table 6: TableofHypothesesAssessment Summary

Propositions	Decision
H1. Theself-awarenessmediates the relation between Enterprise Resource Planning and	Accepted
HRMImplementation	
H2:LeadershipTypesmediatestherelationbetweenEnterpriseResourcePlanningand	
HRMImplementation	Accepted
H3:LeadingTeamsCharacteristicsmediatestherelationbetweenEnterpriseResourcePl	Rejected
anningand HRMImplementation	
H4:TheenterpriseresourceplanningsignificantlyinfluenceHRMImplementation	Accepted
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V. Discussion

The present study is focused towards assessing the placement of shared leadership inbetween ERP and HRM implementation in the context of manufacturing industry of Vietnam. In this context, the research design which has been opted for this study is the quantitative research where the analysis has been carried out with the support of andmeasurementmodel Smart PLS. addition pathassessment on In to the above statement, the factor spertaining to the shared leader ship included leader ship types, leader's characteristics selfand awareness. Based on the analysis carried out in the study, it hasbeen assessed leadership types, self-awareness, leader's characters have partial placementbetween ERP and HRMimplementation. On theotherhand, the othervariables likeHRMandERPimplementationhasadirectandpositiverelation.Conclusively,theoverall effect of shared leadership is significant in between HRM implementation and ERP.

VI. Limitations and Future Research

The following study has identified the placement of shared leadership in between HRMandERPinthemanufacturingsectorofVietnam.Moreover,therewerecertainlimitations on this study which can be taken into consideration by the future researchers. Firstly, the researchers could adopt qualitative study where interviews can be taken in themanufacturing sector managers of Vietnam. Secondly, a contrasting study can be carriedout with respect to two industries of Vietnam and then their shared leadership values canbecompared.

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