



# **The Influence of Monitoring and Evaluation (M&E) Information on Project Success in Teacher Colleges in Tanzania**

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## **Authors' contributions**

*This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.*

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## **ABSTRACT**

This article explores the influence of Monitoring and Evaluation (M&E) information on project success in teachers' colleges in Tanzania. To attain the intended objectives five hypothesis were developed and tested by using Structural Equation Modelling (SEM). The study applied descriptive, cross-sectional and correlational survey design within the framework of a mixed methods approach. Census technique was applied to include public teacher colleges and all College Management Team (CMT) members in the study. Either, Ministerial Education Officials and Zonal Quality Assurance Officers were involved in the study as key informants. The result of hypothesis testing revealed that M&E information was positively related to project success. Availability of clear data collection system, regular conducted meeting with stakeholders, community involvement in project

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M&E and information to team members were all positive and significantly related to project success. It was revealed that regularly prepared and disseminated M&E reports were not significantly related to project success. The study recommends that teacher colleges should employ modern information and communication tools in collecting project data, also teacher colleges should ensure that involvement of the community adds value economically, it is gender and social responsive as well as it focuses on capacity building and improving social well-being of the entire community.

*Keywords: M&E information; project success; college management teams.*

## 1. INTRODUCTION

Studies revealed that projects are the major source of products generation and services delivery for solving various socio-economic and cultural problems [1]. Accordingly, the growth of any country is highly dependent on successful implementation of development projects [2]. Either projects are deemed successful when they attain their intended goals, are completed within the expected range of time and are within the estimated costs [3], (Bello, 2017). Similarly, Amoah [4] conceives project success as the sub-issues of time, cost, satisfaction of users and attainment of the intended goal and objectives.

Moreover, Holgeid and Thompson [5] view project success in terms of completion within time scheduled, estimated costs and its ability to produce sustainable outcomes. According to Sudhakar [6], project success is perceived as a central determinant for the achievement of sustainable development as it ensures effective provision of the most important social services such as education, water and health care.

Despite the fact that projects play a significant role in solving socio-economic problems, their implementation in both developed and developing countries has been facing many problems [7]. It has been observed that, many projects particularly in developing countries fail to perform as expected and therefore they do not realize their intended goals [8]. Abiodun [9] observed that, project failures over the world are closely linked with inappropriate control of operations and planning aspects. Based on the Constructive Cost Model (COCOMO), Ullah [10] asserts that, for a project to be successful, it needs proper monitoring and control of cost, time and man-hour resources. Moreover, Olawale and Sun [11], argued that, among the reasons that led to project failure in countries such as UK, Norway and Hong Kong were closely related to inappropriate project design, inadequate project control, inappropriate project cost and time estimations.

The M&E is one of the important function of the project management as it assists in tracking and justify all levels of project performance (Okafor, 2021) [12]. In supporting that, Nyonje et al., (2012) asserted that successful implementation of any project highly dependent on stakeholders' efforts in conducting M&E. It is also observed that worldwide, organizations are reliance on timely and accurate dissemination of information for management of projects (Bellow, 2017). Either, through information, organizations can identify facts to streamline project and program operations. Either, properly implemented projects depend on constant and timely flow of information to all project stakeholders through shared project reports and other means of information dissemination. The study by Abdulqader, [13] revealed that the successful use of information technology.

### 1.1 Statement of the Problem

In efforts to enhance project performance, the government of Tanzania introduced a number reforms, under those reforms there was devolvement of powers to lower levels. Institutions such as teacher colleges were given powers and mandate to plan, budget, monitor and evaluate implementation of projects [14,15]; (Rwiza 2016). Establishment of M&E system was one of the essential strategies to enhance project performance. As one of the strategies to ascertain project success in teacher colleges, the CMTs are responsible to carry out M&E practices. As a means to ensure effective implementation of project operations and regular provision of project performance feedback to the relevant authorities and other stakeholders [16].

Despite the initiatives taken by the government to enhance project success in education institutions, it has been reported that, the performance trend of many projects in Tanzania teacher colleges is still not impressive (Raphael & Phillip, 2016); [17]. Either, many teacher college projects performed below their expected standards such that, cases of project

implementation delays, poor quality of project outputs and overrated costs are highly reported [14,15]. Furthermore, it was observed that, education projects fail to perform better despite the implementation of M&E activities [18]. The sustained existence of such a poor performance of projects in teacher colleges raises many questions as to whether the M&E practices employed are effective or not. This study, therefore, sought to explore the influence of M&E information and project success in teacher colleges in Tanzania.

## 1.2 Specific Objective of the Study

The study was guided by five specific objectives namely:

- i) Assess the influence of clear data collection system on project success in teacher colleges in Tanzania
- ii) Examine the influence of regularly conducted stakeholders' meetings on project success in teacher colleges in Tanzania
- iii) Assess the influence of community involvement in M&E on project success in teacher colleges in Tanzania
- iv) Assess the influence the prepared and disseminated reports on project success in teacher colleges
- v) Determine the influence of information to team members on project success in teacher colleges.

## 1.3 Research Hypothesis

To achieve the intended objectives, the study tested the following hypothesis

**Ho1:** Clear data collection system significantly influences project success

**Ho2:** Regularly conducted meeting with stakeholders significantly influence project success

**Ho3:** Community involvement significantly influence project success

**Ho4:** Prepared and disseminated M&E reports significantly influence project success

**H5:** Information to M&E team members significantly influences project success.

## 2. LITERATURE REVIEW

### 2.1 M&E Information

Kamau & Mohamed, [19], Wachaiyu, [20] and Warinda [21] defined M&E information by

referring it to clear system of data collection, prepared and shared M&E report as well as presence of a clear flow of information. Kissi et al....,[22] explain M&E information in terms of evidence based information that help in planning and informed-decision making in any project intervention. Furthermore, through information, governments, non-government organizations, and institutions identify facts to streamline operations and make reflections on performance achievements [23].

The study by Elkins [24] asserted that M&E information can be utilized in improving project performance and contributing to peaceful developments in situations disposed to intense conflicts. The study by Crawford and Bryce [25] on investigating the role of project M&E information in enhancing the effectiveness and efficiency of aid project implementation conducted in Australia, asserted that M&E information is intended to alleviate poor project performance, demonstrate accountability and promote organizational learning for the benefit of future projects. Therefore the current study adapted the definition put forward by Kamau and Mohamed [19], Wachaiyu [20] and Warinda [21] who identified clear system of data collection, Shared M&E information, shared M&E reports and information system as appropriate measurement indicators of M&E information.

### 2.2 Project Success

The study by Chan and Chan [26] Pinto and Slevin (1988) define project success as the ability of the project to fall within the cost, time, and quality constraints. Furthermore, Shenhar et al. [27] definite project success as the one that conforms with meeting time, budget and attainment of goals. Also another definition on project success was the one put forward by Abylova and Salykova [28] who defined project success as an aspect that relates to the attainment of organizational goals and objectives. Moreover, another definition on project success was given by Umugwaneza [29] and Asim and Kazaz [30] who defined project success as the one that is completed on time, within budget in approved and satisfactory quality and sustainability. Additionally, Iram et al., [31] defined project success based on factors leading to organizational project objective accomplishment.

## 3. METHODOLOGY

The study was conducted within the framework of the mixed method, it adopted descriptive and

cross-sectional and correlational survey design that was conducted based on primary data (Creswell, 2018). Either, the study included all 35 public teacher colleges and involved all nine (09) college management team members from each teacher college to make a total population of 315 CMTs members that were obtained by census method [32]. The study also involved 05 officials from the Ministry of Education Science and Technology (MoEST) as key informants. Moreover, for the purpose of overcoming the limitations of one method by the strengths of the other the study adopted multiple methods of data collection. Structured questionnaire was used to collect quantitative data from main respondents (CMTs members) and complemented by qualitative data obtained through interview that was conducted to key informants (MoEST officials). The use of both structured questionnaire and interview guide in data collection was intended to bring about triangulation for the purpose of ensuring validity and getting the insight and reality on researched [33,34].

Quantitative data were analyzed by descriptive statistics and inferential analysis through Structural Equation Modeling (SEM). Specifically, the Analysis of Momentum Structures (AMOS version 21) was applied in measurement of models and testing of research hypothesis [35-37]. On the other hand, qualitative data was analyzed by using content analysis.

## 4. RESULTS AND DISCUSSION

### 4.1 Confirmatory Factor Analysis (CFA)

The study applied Structural Equation Modeling in analyzing quantitative data, the model has two parts; measurement model (Confirmatory Factor Analysis) and structural model. The CFA was applied in testing validity and reliability of the

study constructs and evaluation of data fitness in the model. The test indicated that the variable M&E information had the Construct Reliability (CR) value of 0.885. Either the rule of thumb requires that the construct reliability value of any variable should be greater than the recommended cut off point which is 0.7. Furthermore, the M&E information was also subjected to Cronbach's Alpha test as a measure of the internal consistency of the construct, the result indicated that Cronbach's Alpha coefficient value for M&E information was 0.863 the value is greater than the recommended cut off point value of 0.7. therefore, we can conclude have acceptable level of internal consistency among M&E information variables.

### 4.2 Descriptive analysis of the M&E information

Descriptive analysis of M&E information variable was conducted by using four statistical measures namely mean, standard deviation skewedness and kurtosis. This explained the extent to which a set of data is bunched together. Either the variables of the study were assessed based on 1-5 Likert scale ratings whereby 1=very small extent 2= small extent 3=moderate 4=great extent and 5=very great extent. The general overview portrays a positive response as the overall (mean =3.54, SD=0.88) was revealed to be above the average mean=3.0 in the 1-5 Likert scale. This carries the message that generally respondents had a positive attitude on the variable. On the other hand, results also revealed that the standard deviation was closer or within the one (SD= 0.88) standard normal distribution implying that there was consistence among respondents' responses on constructs of the variable. Either the overall result from the skewedness test revealed a leftward-negatively skewed (Skewed= -0.424) of data distribution.

**Table 1. Descriptive analysis of M&E Information**

Indicator statement	Mean	Std.	Skew	Kurtosis
CMT have a clear system of data collection, for monitoring and Evaluation	3.31	1.07	-0.243	-0.566
CMT regularly conduct meetings with other stakeholders for M&E implementation	3.57	1.05	-0.536	-0.265
CMT involve the community on project monitoring and evaluation	3.38	1.11	-0.443	-0.444
CMT regularly prepare and disseminate progress reports	3.56	1.02	-0.455	-0.422
All members of the project team are kept informed of the status of the project performance	3.85	0.97	-0.842	0.598
<b>Overall</b>	<b>3.54</b>	<b>0.88</b>	<b>-0.424</b>	<b>0.159</b>

Source: Field data, 2023

**Table 2. Estimated parameters of the final structural model for the influence of M&E information on project success**

Endogenous	Exogenous	Estimate	S.E.	C.R.	P-value	R <sup>2</sup>
SUCCESS	<--- MEI	<b>0.797</b>	<b>0.06</b>	<b>10.641</b>	<b>&lt;0.0001</b>	<b>0.523</b>
SUCCESS	<--- Data collection sys	0.308	0.028	10.904	<0.0001	
SUCCESS	<--- Conduct Meeting	0.05	0.024	2.092	0.036	
SUCCESS	<--- Involve community	0.052	0.022	2.401	0.016	
SUCCESS	<--- dissemination report	-0.003	0.023	-0.114	0.909	
SUCCESS	<--- Inform team	0.16	0.024	6.81	<0.0001	

Source: Field data 2023

### 4.3 Inferential Analysis and Hypotheses Testing Results

This study was intended to determine the influence of M&E information on project success in teacher colleges. Structural equation modelling was used to test the general research hypothesis "M&E information significantly influence project success". Table 2 indicates the parameter estimates, standard error, and the associated p-values of the fitted SEM for the influence of M&E information on project success in teachers' colleges.

The results presented in Table 2 indicates that, M&E information was positively related to project success ( $\beta=0.797$ ). This had the meaning that a unit increase in score of M&E information resulted in an increase of project success score by 0.80 units. Moreover, the results show that the relationship between M&E information and project success was statistically significant ( $p<0.001$ ). It was further observed that, about 52.3% ( $R^2=0.523$ ) of the variability in project success is explained by M&E information. Furthermore, the inferential results for the specific hypotheses testing related to the influence of M&E information on project success are presented hereunder:

**Hypothesis (H.I): Availability of clear data collection system significantly influence project success in teacher colleges:** This sub-hypothesis was intended to test the relationship between clear data collection system and project success. The study findings indicated that there was a positive relationship between clear data collection system ( $\beta=0.308$ ) and project success. This meant that an increase in clear data collection system by one unit leads to increase by 0.308 units in scores of project success in teacher colleges. Moreover, the study revealed that the relationship between data collection system and project success was statistically significant as indicated by p-value of ( $p<0.001$ ) which was less than the recommended cut off

point value of 0.05. Either, the finding implied that availability of a clear data collection system is important to facilitate collection of accurate data for M&E in teachers' colleges. The findings also implied that teachers' colleges need to have a clear data collection system that can facilitate preparation of a clear and reliable project report to the ministry and donor funding agencies for attraction of more project funding. Following existence of a positive and significant relationship between clear data collection system and project success, it can thus be confirmed that the **hypothesis (H.1)** was accepted.

Empirical reviews also were in line with what the current inferential result revealed on the relationship between clear data collection system and project success in teachers' colleges. The findings by UNDP, [38] revealed existence of positive relationship between clear data collection and project performance. The finding further revealed that absence of clear data collection system and method led to the team spending more time and resources in generating project information. In support of the same findings Okafor [12], revealed that clear routine data collection system facilitates the smooth flow of information that enables making informed decisions. Furthermore, the report by USAID, [39] recommends the need of having a clear data collection system in an institution. The report further argued that clear data collection system is essential for tracking project activities and assessing performance.

Generally, the findings from inferential analysis confirmed that availability of clear data collection system has tremendous contribution to project success. Either the empirical review affirmed that effective project management depends on availability of clear data collection system [40,12,30].

With current development of science and technology in data collection, teachers' colleges should consider using more of Information and

Communication Technology (ICT) tools in data collection such as mobile devices and other software for collection, processing and storage of data. Conclusively, to have a good data collection system teachers' colleges are required to establish a good system of regular data capturing (normal and emerging) data from relevant sources.

**Hypothesis (H.2): Regularly conducted meeting with stakeholders' significantly influence project success:**

The current hypothesis was intended to test the relationship between regularly conducted meetings with stakeholders and project successes. Structural equation modeling was applied in testing the relationship of variables. The findings revealed that there was a positive relationship between regularly conducted meetings with stakeholders ( $\beta=0.05$ ) and project success. The result had the meaning that any increase by one unit in regularly conducted meetings with stakeholders, results in increased in project success by 0.05 units. Moreover, the findings indicate that there was statistical significant relationship between regularly conducted meetings with stakeholders and project success as indicated by the p-value of ( $p<0.036$ ) which was less than the recommended cut off point value of 0.05. The findings had the implication that conducting meeting with stakeholders regularly is essential in facilitating timely adjustment and remedial measures to the underperforming project activities. In that regard teachers' colleges should keep regularly conducting stakeholders' meetings to inform them about the progress of the project. Following existence of a positive and significant relationship between regularly conducted meetings with stakeholders and project success in teacher colleges **Hypothesis (H.2)** was accepted.

Empirical findings are in line with this hypothesis as the analysis findings by UNDP, [39] report revealed existence of the relationship between regularly conducted stakeholders' meetings and project performance. The report insisted on the need to conduct stakeholders' meetings in order to monitor and evaluate project financial and general budget performance. Moreover, Kathongo, [41] revealed that involving stakeholders in meetings and other forums allows them to air out useful views which reduce conflict and increase harmony that contribute to project performance.

Generally, the findings from empirical reviews revealed that the most effective way of involving

stakeholders in the implementation of project is through regularly conducted meetings [39,42]. Either, to all government institutions teachers' colleges included, conducting stakeholders meeting is a statutory requirement, for enhancement of transparency and good governance. Generally, the aim of conducting stakeholders' meetings is to facilitate monitoring of project activities and possibly take remedial measures timely where necessary.

**Hypothesis (H.3): Community involvement in project M&E significantly influence project success:**

This hypothesis was intended to test the relationship between community involvement in conducting M&E and project success. Structural equation modeling was applied in testing the relationship of variables. The result revealed that there was a positive relationship between involvement of the community in M&E ( $\beta=0.052$ ) and project successes. The result had the meaning that a unit increase in application of community involvement in project M&E resulted in increased project performance scores by 0.052 units. Moreover, the result indicated that there was a statistical significant relationship between community involvement in conducting M&E and project success as indicated by p-value of ( $p<0.016$ ) which was less than the recommended cut off point value of 0.05. This result had the implication that involvement of the community in conducting project M&E had significant contribution to value addition.

Empirical reviews were in line with what inferential results revealed, as the study by Maijo, [18] revealed about involvement of the community in the use of agro-inputs contributed to sustainability of the community based projects in Kisarawe district in Tanzania. Moreover, the study by Muniu, [43] also revealed a positive and significant relationship between community involvement and sustainability of water projects at Nyeri county in Kenya. The study further revealed that community involvement in decision making, mobilization of resources and institutional collaboration all had significant influence on sustainability of community water projects. The study also revealed that M&E had a significant influence on the relationship between community participation and sustainability of water projects. Finally, the study concluded that in order to guarantee sustainability of water projects, community should be involved through contribution of initial capital and monthly subscriptions to sustain delivery of water service in the community.

Even though, there are a number of empirical studies which were contrary to these findings as the study by Norman & Massoi, [44] revealed on Decentralization by Devolution (D by D) in Tanzania- reflection on community involvement in planning process at Kizota Ward in Dodoma. The study revealed there was no community involvement in planning and M&E of projects. This resulted in failure of D by D projects at Kizota Ward in Dodoma was due to low involvement of community members in planning, execution and M&E of the implemented projects. Moreover, the study by Kimweli, [45] also revealed lack of community involvement in donor funded food security projects. Moreover, it was also revealed that M&E was completely unknown to community due to the fact that they did not participate in any level of M&E exercise. Neither were they involved in drafting and reporting progress, nor did they participate in conducting M&E activity. In the same line the findings by Mthethwa & Jili, [46] in a study conducted at Mfolozi local government in South Africa also revealed how low or lack of community involvement at the stage of planning, implementation, monitoring and evaluation resulted to poor performance of projects. In turn it resulted to dissatisfaction among citizens and sometimes protest and violence against service delivery. The study recommended that municipal authorities should involve the local community in all the stages of the project. Moreover, local communities should be consulted first by the authorities in order to deliver services according to their preferences and needs.

Community involvement in project is currently a concern to all parties the government, donor agencies and other project stakeholders. Empirical studies have proved that the most successful and sustainable projects are those with a strong support and backing of the community members [44,46], (Simiyu, 2018). Community involvement in project is a bottom-up approach strategy which has proved to be more effective in project planning, monitoring and evaluation. Community involvement brings people and the entire community direct to the project decision making. In community context projects success is measured based on the services delivered and impact they have on community in terms of solving social, economic and cultural problems.

Teachers' colleges as part of the entire community should consider involving the community and other stakeholders in projects that they are

implementing. The reference is made to projects related to construction of buildings and other college structures such as classrooms, staff offices and others. Involvement of community in implementing of projects of such a nature would lead to construction of building structures which are more friendly to all users including those who are either physically or mentally impaired. Furthermore, recently the government has been insisting and encouraging involvement of the community around in construction projects through the 'force account' system, under this arrangement teacher colleges should also take that advantage to involve the community in their projects implementation to reduce operational cost without compromising the quality of project work. All these should be implemented within the government framework, guidelines, procedures and regulations.

It can generally be argued that community involvement in project is essential in reducing risks and increasing project sustainability. Therefore, involving the community in the implementation of projects is inevitable. Moreover, teacher colleges should ensure that involvement of the community adds value economically, it is gender and social responsive. More importantly it should focus on capacity building and improving social well-being of the entire community.

**Hypothesis (H.4): regularly prepared and disseminated M&E reports significantly influence project success:** This hypothesis was aimed at determining the relationship that exist between regularly prepared and disseminated M&E reports and project success. Structural equation model was applied in testing the relationships of variables. The results revealed that there was a negative relationship between prepared and disseminated M&E report ( $\beta = -0.003$ ) and project success. The result had the meaning that a unit increase in the prepared and disseminated project reports, led to decrease in project performance by 0.003 units. Moreover, the result indicated that there was no any statistical significant relationship between prepared and disseminated project reports and project success as indicated by p-value of ( $p > 0.909$ ) which was greater than the recommended cut off point of 0.05.

The above findings had the implication that CMT members did not prepare and disseminate project M&E reports. Either the prepared reports did not add any value to project performance or

did not yield a proportionate return in relation to project performance. Unprepared and disseminated project reports also implied that there was lack of transparency in the management of projects in teachers' colleges. Therefore, teacher colleges should consider reviewing their system of preparation and dissemination of M&E reports. This is to make the reports more informative to project performance. Following existence of the negative and statistically insignificant relationship between regularly prepared and disseminated M&E reports and project success, thus **hypothesis (H.4)** was rejected.

Empirical studies support and was in line with this inferential results of this hypothesis, as the study by Warinda, [21] revealed that there was no any report generated from M&E system on the operationalization of the integrated M&E at Kisumu county. The study further revealed that unclear information flow to decision makers and limited availability of data were the main causes of poor operationalization of project M&E system. In the same line, the study by Muniu, [47] revealed that (90%) of respondents in descriptive study results said that there was no any project written M&E report was prepared and disseminated to stakeholders. The study further asserted that hardly a verbal report was delivered to the stakeholders' meetings. Finally, the study recommended that M&E should be written in a simple and easily understandable language so as it can be utilized in multiple options based on stakeholders needs at different levels.

Despite a weak and insignificant relationship between regularly prepared and disseminated M&E reports, the role of reports on any project performance cannot be ignored. M&E reports are the roadmap and direction that guide stakeholders on project management. Preparation and dissemination of progress reports is a statutory obligation and requirements to any government institution. Teacher colleges as government institutions are supposed to prepare and disseminate reports monthly, quarterly and annually to inform the government and other stakeholders on the progress of the institution including projects that are implemented at the moment. The value of the prepared M&E reports is highly dependent on quality of regularly collected data from various sources that are connected and related to project implementation. Empirical reviews have shown that any report prepared based on outdated and

inaccurate data misleads management team ending up making poor decision on the management of projects [39,23]. Therefore, teachers' colleges should strive to strengthen data collection systems in order to capture and collect accurate and up-to-date data at the right time so as to assist in making informed decision project management.

In a nutshell it can be argued that preparation and dissemination of M&E report is of vital importance in providing a range of information needed by project and general management of any institution. Empirical reviews indicated that, the well prepared and balanced M&E reports are impetus to empower stakeholders in making informed decisions [39,21,48]. Teacher' college management teams should be aware that M&E reports is one of the means of institutional accountability to stakeholders and the general public. Either the reports are a mirror that reflects the way projects and other institutional operations are managed. Furthermore, as government institution, teacher colleges are required by law to prepare and disseminate institutional progress reports to relevant authorities including Internal Audit Unit (MoEST), Office of the Controller and Auditor General(CAG), monthly, quarterly and annually. The submitted reports also include projects being implemented at the moment and their progress status. This affirms and clears the doubt on whether teacher colleges do prepare and disseminate project performance reports regularly to stakeholders as stipulated in the government documents [17].

The finding from interview with officer from Quality Assurance Unit -MoEST on the availability and usability of project M&E reports, revealed that teacher college do prepare and disseminate project reports. The officer further explained that teacher college projects are also included in the general institution normal program reports prepared and submitted to the ministry monthly, quarterly and annual reports

*"...yes! For every project they are implementing, we at ministry are getting reports from teacher colleges. Also when teacher colleges prepare quarterly progress reports, if there is any project being implemented at that time, it is included in the college progress report". (Quality Assurer Officer-MoEST HQ).*

The officer from Teacher Education Unit asserted that he was of the opinion that it is true that all



teacher colleges reports are submitted to the ministry through teacher education department so he was full confident that all teacher colleges do prepare project reports and submit them to the ministry.

*“... we do compile all reports that are received from all 35 teachers’ colleges and send a compiled report to (PS), but project reports are directly submitted to the DPP office, here in our department what we get is a copy.”* (Teacher Education Unit Officer).

Generally, interview with ministerial officials confirmed that teacher colleges have been preparing and disseminating project reports to all stakeholders. However, none of the interviewed officer could substantiate that the reports were that much useful and dependable to enhance project performance. Evidence from empirical studies suggest that some of the reports were prepared just for complying with donor funding requirements [49]. An ideal project report is supposed to be succinct, clear, built on facts and figures with maximum degree of accuracy. CMT members should strive to improve their system of report writing in order to produce project reports which are reliable for rational decision making.

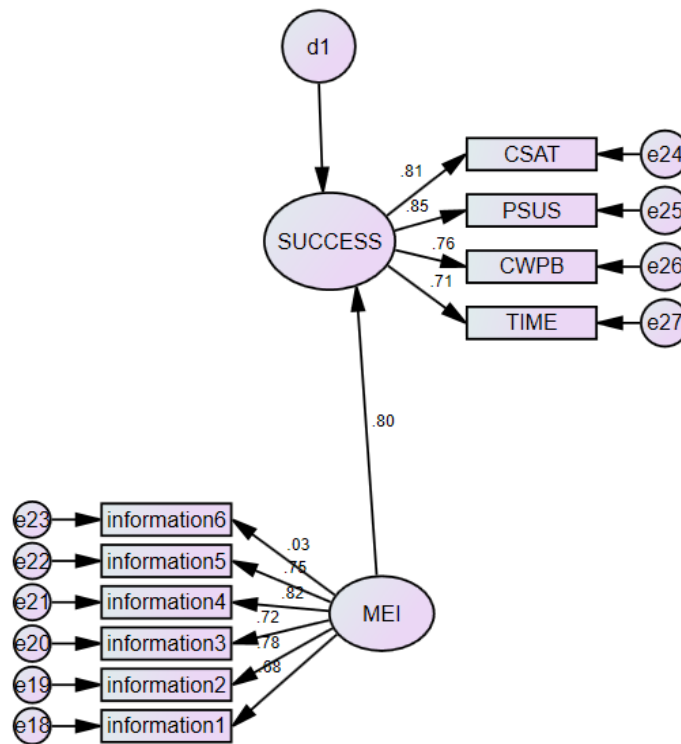
**Hypothesis (H.5): Information to team members significantly influence project success:**

This hypothesis was intended to determine the relationship between information to team members and project success. Structural equation model was applied in testing the relationship of variables in this sub-hypothesis. The study revealed that there was a positive relationship between information to project members on the status of the project ( $\beta=0.16$ ) and project success. The finding had the meaning that an increase in information to project members by one unit resulted in the increased scores in projects success by 0.16 units. Moreover, the results indicated that there was statistically significant relationship between information to project members on the status of the project and project success as indicated by the p-value ( $p<0.0001$ ) which was less than the recommended cut off point of 0.05. The result had the implication that all project team members need adequate and timely information in order to effectively carry out M&E exercise. Either, when project team are well, adequately and timely informed about project, they can make rational informed decisions about M&E which can lead to increased project performance. Teachers’ colleges should ensure that CMT members are

fed with correct information pertaining to implemented projects, this is to enable them make carry out M&E of all projects in their respective teacher colleges. To facilitate that teacher colleges when implementing project should establish the reliable information mechanisms under which all team members will be constantly and regularly kept informed on the status of the project. Following existence of the positive relationship between keeping project team members informed on status on performance and project success, then hypothesis (H.5) was accepted.

The findings from descriptive analysis in Table 1 indicated that there was a positive relationship between information to project team members’ and project success in teacher colleges. This was evidenced by respondents’ score ratings of (mean=3.85, SD=0.97) which was above the mid-point score of mean=3.0 in the 1-5 points of the Likert scale. The score above average portrayed a general agreement by respondents on the information to project team members as a determinant of project success in teacher colleges.

The empirical review also revealed consistent result as descriptive and inferential findings revealed on information to team members and project success. The study by Okafor [12] revealed how project M&E information was vital to project performance. The study focused on tracking of project information management system influenced performance of Reading and Numeracy Activities (RANA) at Katsina state in Nigeria. The finding revealed existence of a statistical significant relationship between information management system and project performance. In the same line of results, the study by Kaitare & Euginia, [50] revealed existence of positive and significant relationship between project information users/managers and project performance. Either, the study further affirmed that quality information assists user’s and project managers to perform their tasks more professionally and hence achieve project success. Finally, the study recommended that organizations should establish and strengthen project Management Information System to enhance the flow of information in order to assist in improving decision making pertaining to project management. Complementing to the above findings the study by Safari & Kisimbii, [51] also found a positive and significant relationship between information to government fund and members and project performance, the



**Fig. 1. The structural equation model for the influence of M&E information on project success in teacher colleges**

finding asserted that clear flow of information to project team facilitates decision making among members and act at reasonable time in favor of project performance [52-54].

Teachers' colleges have responsibility to create smooth and reliable channels of information flow among the team members, this is to ensure that the flow of information do not leave any member of the team uniformed. Moreover, it is worth noting that, with the current era of information technology, project management systems also need to adopt Information and Communication Technology (ICT) in their project operations. The technology could easily facilitate the flow of information among team members. Either, adoption of online conference platforms such as zoom, google, skype and other virtual meeting facilities will assist in reducing project operational costs, increasing efficiency, sustainability and ascertain overall project success.

## 5. CONCLUSION AND RECOMMENDATIONS

The article assessed the influence of M&E information on project success in teacher colleges in Tanzania. Five hypothesizes were

tested using structural equation modeling. The results revealed that generally M&E information was positive and had statistical significant relationship with project success. furthermore, the study revealed that four of the five tested hypothesizes were significantly related to project success, therefore were all accepted. Either one hypothesis was not significantly related to project success hence it was rejected. Based on the findings it was concluded that M&E information significantly influence teacher colleges project success. Therefore, CMT members should strive to improve their system of report writing in order to produce project reports which are reliable for rational decision making. Teacher collges as part of the entire community should consider involving the community and other stakeholders in projects that they are implementing. To facilitate that teacher colleges when implementing project should establish the reliable information mechanisms under which all stakeholders, team members and the entire community will be constantly and regularly kept informed on the status of the project.

## COMPETING INTERESTS

Authors have declared that no competing interests exist.

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