Critical Strategies to Influence Project Success in Construction Industry

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Abstract: This research paper explored the critical strategies to be adopted by organizations that are mainly operating based on project based or project oriented organizational structure. The identified strategies are necessary to compensate the prolong issues embedded in project management practice particularly on misalignment issues between organization and its operational objectives and strategies. Generally, the issues are contributed from several factors such as unclear roles and responsibilities, limited autonomy and accountability, lack of a commercial and customer orientation, and weak of professional capacity. All these factors are extending the gap between the organization strategies and project implementation, and consequently put project success at stake. This study was conducted as an attempt to provide solutions to overcome these long rooted problems found in project implementation. The objectives of this study are to identify the importance factors of top management support to influence on project success, to investigate the relationship between top management support and project success, and to determine the critical top management support that influencing project success. This study was conducted by going through five main steps starting with understanding the nature of the research problems, followed with reviewing and compiling relevant literatures, journals and other sources of secondary data, preparing survey questionnaire form, collecting the data by gathering responses from the targeted samples, analysing the data to generalize the samples’ results, before closing with discussion and conclusion.

The population of this study are constituted of professionals serving in Construction Industry within Johor Bahru area, Malaysia. This study had gathered 100 responses from the targeted respondents through online survey form developed in “Google Form” system. The forms were distributed by forwarding the “link address” to the respondents. The data were analyzed using three different methods which are descriptive mean analysis, correlation analysis and regression analysis for respective research’s objectives. The results of this study discovered that organization should prioritize their strategies on three main areas namely financial system, stakeholder management and macro-economic factor. This study also found that organization should adopt all quality of top management supportive behaviours proportionally to ensure the effect of their actions are impactful to influence on project success at three different areas namely future preparation, project efficiency, and business adaptability and success. Organization should adopt different strategies when attempting to achieve different criteria of project success. This study’s outcomes could provide a useful source of information that may benefit other scholars or companies that are applying project management practice to formulate plan and prioritize line of actions in attempt to improve their organizational performance. This study implies ideas by focusing on optimum numbers of strategies and specific set of actions that are critical to achieve on different kind of project success.

Keywords: Critical success factors, organizational structure and strategies, project success, and project success factors.

I. INTRODUCTION

Conflict of interest and alignment issues between organizational and project objectives can affect both the project and organizations in terms of money, time, and customer satisfaction [34]. This issue directly affects the project management process including technical, functional or business related events during the project implementation [3]. It is more adverse when handling the project issues in construction industry where all of these issues generally contribute to project deferment and worst to the extent of abandonment [40]. This study was initiated based on common problems found in project management practice with the focus centralized on higher management strategies and its impacts on project success. Top management support is arguably created positive influences to the project success [32]. The support is more necessary against other project’s success factors [29]. This study discovers the impactful actions of top management support to be adopted by any project-based or project-oriented organizations as their strategic implementation to pursue for project success.

II. OBJECTIVES

The objectives of this study are to identify the importance factors of top management support to influence on project success, to investigate the relationship between top management support and project success, and to determine the critical top management support that influencing project success.

III. SCOPES

The scope of this study was focused within Construction Industry located in Johor Bahru area. The samples of this study are constituted of people who serve in project based organization or project oriented organization, and they hold various position from top management to executive level.
IV. SIGNIFICANT OF STUDY

This study’s outcomes could provide a useful source of information that may benefit other scholars or companies that practicing project management. It could become a basis to formulate plan and prioritize line of actions in attempt to improve their organizational performance. The implied strategies generated from this study are pragmatic as they were set to focus on achieving project success. This study provide ideas by highlighting the critical top management support necessarily to influence on project success. It may facilitate organizations to give more attention on limited numbers of areas that justifiably critical instead of attending to all problems at one time. This idea will improve management efficiency whilst preventing from diversion to other less impactful areas.

V. DEFINITION OF TERMS

A. Top Management

Top management is defined as the highest management level in an organization who control, directing and running an organization [23, 24, 17]. They are accountable and responsible for the organization’s survival and growth [17].

B. Project Manager

Project manager is an individual that assigned by the performing organization to lead a team that is responsible for achieving the project objectives [27]. Project manager’s duty are to satisfy the task needs, team needs, and individual needs. In addition, he is a link between the strategy and the team [13].

C. Project Success

The fundamental concept to assess the project success is based on the measurement of project success factors [35]. Success criteria is a formulation of specific measurement to determine whether project succeeds or fails [7]. Success criteria is subjective and differ across different kinds of projects, participants, scope of services, project size, and sophistication of the owner related to the design of facilities, technological implications, and other external factors [38].

VI. LITERATURE REVIEW

A. Instituting an Organizational Structure

Organization is the foundation of modern social order that forms a structural framework of duties and responsibilities [2]. It is instituted to perform specific actions and collectively collaborate as a whole to meet the organization goals and objectives [2]. A business organisation should be structured in the most effective and efficient way to fully utilise its resources including capital, human resources, expertise and knowledge to achieve its strategic goals [2]. Strategic planning can contribute into positive impacts to the organization performance by generating relevant information, creating a better understanding of the business environment, and reducing uncertainty [33]. The rapid changing of business environment have pushed the organizations’ leaders to plan ahead their strategy to curb from ousted in the market [4]. Top management who is the highest management group within an organization hold the accountability to maintain the organizational health and performance [37]. They need to initiate and implant strategies that are adaptable to the market, and continuously monitor and analyze the external environment to look for opportunities, threats, and redirect company strategies when needed [37]. Project is one of the organization’s strategic approach to gain revenue and generate profit [18]. Project manager is assigned to lead a team and meet the project objectives [27]. Top management who holds the highest authority at the top of organizational structure plays critical role in ensuring the restrictions of project managers’ capacity to be supplemented by providing necessary top management support. Not all top management supports are critical, thus this study provides a clear guide on which top management support strategies to be prioritized in facilitating project manager to achieve project success.

B. Top Management Support Factors to Influence on Project Success

The importance factors of top management supports are determined based on critical success factors’ body of knowledge [42, 32, 8, 30]. The top management support factors are grouped into eight different categories namely legal and political factor, macro-economic factor, financial factor, nature, environmental and social impact factor, bidding and contracting factor, subcontracting and supply chain factor, project factor, and stakeholders factor.

Top management support is one of the elements derived in project success factors or also known as critical success factors [42, 32]. The attempt to measure an element of project success factors against the other elements of the same category will become the basis to measure the importance factors of the needs of top management supports to influence on project success. This attempt is consistent with the preceding scholars’ approach [8, 30]. The investigation to see the interdependence between one element and others under the same category of success factors is a way to identify the cause and effect between one and another [30]. The selection of elements of importance factors of the needs of top management supports will be based on critical success factors associated with the top management support in construction projects. Reference to [10] has gathered numbers of literatures to come out with a total of 25 factors that lead to project success. The compiled factors are generalized in a single list without classified into difference category. Reference to [41] has identified a total of 46 numbers of variables influencing the success of project management through their extensive reviews on the past literatures before consolidating the factors and came out with the critical success factors’ framework. They have grouped the variables into seven different categories based on; (1) project related factors, (2) project planning and management factors, (3) project stakeholders factors (client),
(4) project stakeholders factors (project team leader), (5) project stakeholders factors (consultant), (6) project stakeholders factors (subcontractors), (7) project procurement factors and (8) project external factors.

Reference to [8] has summarized a total of 30 list of project success factors from several scholars associated with key project’s key performance indicators (KPIs) namely cost, time, quality, safety, environmental impact and site dispute. Reference to [30] has developed a framework by grouping the critical success factors into five main categories namely project factors, project team factors, organization factors, external environment and sustainability.

C. The Relationship between Top Management Supports and Project Success

Top management support demonstrates a direct relationship with the project manager’s managerial control and the information system’s project performance. Effective managerial control through the appropriate establishment of information and communication management can increase the chances to achieve project success [19]. Top management plays as a moderator to facilitate the project control and influence the success of the project performance [19]. They demonstrate significant relationships with all dimensions of project success dimension namely provide resources, communication, expertise, power and structural arrangement [31]. There are other supported studies that concluded that top management supports including provision of resources, communication management, top management expertise, top management power and structural arrangement show positive relationship with the project success [31]. Table-I shows a balance framework of project success between hard and soft factors. The project success’ framework is established using 25 different variables organized in five dimensions. The model contains the three criteria for the iron triangle (dimension 1) plus four additional project success criteria dimensions; (1) project efficiency, (2) organizational benefits, (3) project impact, (4) stakeholder satisfaction, and (5) future potential.

Table-I: Project success regression model by Khan et al. (2013)

Table-II shows a four-dimensional framework, where it presents how different types of projects require different success factors, determined by the strategic nature and the short- and long-term project objectives. The dimension of this success’ framework was developed by [36].

Table-II: Four dimensions of success

| No. | Success Dimension | Measures                                                                 |
|-----|-------------------|--------------------------------------------------------------------------|
| 1   | Project Efficiency| Meeting schedule goal                                                    |
|     |                   | Meeting budget goal                                                      |
| 2   | Impact on the Customer | Meeting functional performance                                      |
|     |                   | Meeting technical specifications                                        |
|     |                   | Fulfilling customer needs                                                |
|     |                   | Solving a customer’s problem                                             |
|     |                   | The customer is using the product                                        |
| 3   | Business Success  | Commercial success                                                        |
|     |                   | Creating a large market share                                           |
| 4   | Preparing for the future | Creating a new market                                                  |
|     |                   | Creating a new product line                                              |
|     |                   | Developing a new technology                                             |

Source: [36]

Table-III shows the various past project success’ outcomes generated by various preceding scholars including [26, 9, 12, 36, 20, 35].

Table-III: Success dimensions from the literatures

Table-IV shows a sample of Top management support’s framework generated by [6].

D. The Critical Top Management Supports to Influence on Project Success

Top management support provides contribution towards the success of quality management [16]. Top management possesses a critical role to uphold the organization’s quality objectives across the organization [6]. The project implementation success is depending on several critical success factors and one of it is top management support [21]. Top management supports the extent to which top managers demonstrate commitment to protecting nature, drive the firm’s environmental strategy, and support its environmental initiatives [22]. Table-IV shows a sample of Top management support’s framework generated by [6].
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Table IV: Top management support’s (TMS) framework and definitions of support types

| Supportive Behavior aimed at | Provisions of financial, material and human resources | Strategic arrangements | Communication | Expertise | Power |
|-----------------------------|------------------------------------------------------|-----------------------|--------------|-----------|-------|
| Accommodating the implementation project | TM provides the implementation project and the team with adequate financial, material and human resources | TM establishes and enforces adequate project structures | TM communicates in a manner with project team and sells the project to the rest of the organization | TM has relevant expertise and experience in project management | TM uses its power to support the project and protect the project members |
| Reshaping organizational content | TM provides adequate financial and human resources for instituting organizational changes to facilitate effective system implementation | TM adapts the organization to the systems by establishing adapted structures, processes and control systems | TM communicates and explains the organizational implications and organizational changes associated with the implementation | TM understands the organizational implications and changes related to the system implementation | TM uses its power for instituting organizational changes in relation to system implementation |
| Adapting the information system to the organization | TM provides adequate financial and human resources for system adaptations | TM establishes adequate structures for system adaptation | TM communicates and provides possible system changes with those involved | TM understands the necessary system adaptations | TM uses its power to facilitate and enable necessary system changes |
| Dealing with stakeholders | TM provides financial, material and human resources to promote supportive stakeholder environment | TM adapts the organization to strengthen stakeholders support | TM communicates and discusses the projects’ implications with various stakeholder groups | TM understands the power and interests of stakeholders around the project | TM uses its power to influence roles and positions of stakeholders |

Source: [6]

Top management support is essential for allocation of resources [5]. Top management provides adequate financial, material, and human resources for implementation of the project, instituting organizational change, achieving business success, an adaptation of the new system, and encouraging environment to the stakeholder for successful completion of the project [6].

VII. RESEARCH METHODOLOGY

This study was conducted by following step by step procedure as shown in the following Fig. 1 encompassed of five main processes which are: (1) problems identification, (2) prepare literature reviews relevant to scope of studies, (3) data collection, (4) data analysis, and (5) discussion and conclusion of the findings.

Fig. 1. Systematic research process.

This study was started with the deliberation of problems recognized in project management practice. It followed with a literature review process which helped to deeply understand on the topic of this study whilst tailoring the body of knowledge of top management support and project success, with the study’s objectives. Suitable preceding frameworks and parameters were properly reviewed and compiled in the literatures as the basis to design the survey form, which was the main instrument of this study to collect data. The suitable research model was chosen as the study basis by matching up with the study’s objectives. The model is presented in Fig. 2.

Fig. 2. Research framework.

The samples of this study were focusing the findings within construction industry in Johor Bahru area only. The respondents were selected from professionals group serving in project-based or project-oriented organizations, and they hold various position from top management to executive level. This study solely employed quantitative research approach with the attention was given on investigation of necessary findings based on top management support and project successes’ topics. The collected data were analyzed using three different methods namely descriptive-mean analysis, correlation analysis and regression analysis to produce results and generalize the findings. Those outcomes were then discussed in a systematic way by highlighting the similarity, differences or any unique pattern emerged contrary to the literatures. The discussions were the main inputs to address to each study’s objective. The objectives were composed and concluded based on the elaborated discussion and findings. The final part of this study highlighted the study’s limitation and proposed future recommendations.

VIII. RESULTS AND DISCUSSION

A. Research Objective 1: The Importance Factors of Top Management Support to Influence Project success

Fig. 3 shows the importance of top management support (TMS) factors across eight different categories. The results show that the “very high important” factors of TMS are; (1) Financial, (2) Stakeholders, and (3) Macro-Economic. The rest mean values of top management support factors are classified under “high important” factors only. The top three highest factors are closely connected with top management roles and responsibility in organization. Those factors including financial, stakeholders and macro-economic are the fundamental input of organizational design and strategic plan.
business investors around the world are highly cautious in setting with different political nature and economic system. Most impact on the business activities, but different countries are set with different political nature and economic system. Most business investors around the world are highly cautious in selecting a country for international investment. They are only favour to invest in countries with a favourable business setting that can protect their property rights including stability of government through democratic forms, market-based reforms, and adoption of effective legal system. Political and legal system in Malaysia are stable and well organized, thus encourages for more international investment to foster our economic development. This might become one of the reason why most respondents didn’t put their priority on political and legal factor as “very important factor” to influence project success.

B. Research Objective 2: Relationship between Top Management Support Behaviors and Project Success

Table-V shows each relationship between top management support’s variables and project success’ variables. The results show that all variables are positively correlated where the top five highest correlation values are between; (1) “overall top management support” and “overall project success”, (2) “overall top management support” and “future preparation”, (3) “overall top management support” and “project efficiency”, (4) “overall top management support” and “business adaptability and success”, and (5) “communication management” and “project efficiency”.

Table- V: The correlation value between top management support behaviours and project success criteria

| No. | Top Management Support Behaviors | Measurement Indicator | Project Success Criteria | Project Success Criteria |
|-----|----------------------------------|-----------------------|-------------------------|-------------------------|
| 1   | Provision of Resources            | Spearman Coefficient  | 0.649                    | 0.639                    | 0.659                    | 0.649                    | 0.659                    |
| 2   | Organization Structural Management| Spearman Coefficient  | 0.612                    | 0.574                    | 0.629                    | 0.649                    | 0.666                    |
| 3   | Communication management          | Spearman Coefficient  | 0.707                    | 0.607                    | 0.615                    | 0.632                    | 0.659                    |
| 4   | Top management priority            | Spearman Coefficient  | 0.569                    | 0.509                    | 0.574                    | 0.609                    | 0.629                    |
| 5   | Top management power               | Spearman Coefficient  | 0.526                    | 0.490                    | 0.569                    | 0.615                    | 0.632                    |
| 6   | Overall Top Management Support     | Spearman Coefficient  | 0.739                    | 0.714                    | 0.739                    | 0.749                    | 0.749                    |

*Correlation is significant at the 0.01 level (2-tailed) - very strong correlation.
*Correlation is significant at the 0.01 level (2-tailed) - strong correlation.
*Correlation is significant at the 0.01 level (2-tailed) - moderately strong correlation.

The highest correlation value was measured at 0.741 for relationship between “overall top management support” and “overall project success”. This relationship implies how importance is to have a combination of “overall top management support behaviours” to highly impact on “total project success”. The combination of various supports have to be exercised in a balance way to exploit the dynamic potential of each behaviours. The balance supports are produced by well distribution of focus across all areas of support behaviours without abandon or bias on any specific behaviours namely; (1) provision of organizational resources, (2) sustain effectiveness of organizational structure, (3) establish effective communication management across the organization and stakeholders,
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(4) improve level of expertise through self-development or continuous learning process to have better control on organizational implementation and strategic decisions, and (5) lastly to appropriately use the power by adopting different forms of power to affect the behaviour and performance of their employees.

The balanced behaviours of top management support are highly sought to impact on individual project success criteria namely “business success”, “project efficiency” and “future preparation” with each correlation value stood at 0.714, 0.726 and 0.738 respectively. “Business success” and “Future Preparation” success criteria are closely connected with the top management roles and responsibility including to plan, resolve problem, and make decisions to make the business more successful. They hold high degree of accountability to maintain the organizational health and performance. The project success are highly depending on clear setting of project objectives and performance targets to effectively direct all the activities to accomplish the desired goals.

Most respondents agreed that top management are the key determinant to adapt the organization with the changing market and economic environment. The successful of an organization is depending on how good the top management preparing the organization for future adaption as they are the driver to initiate the strategic decisions by considering various opportunities and threats prior to redirect the strategies when needed.

“Project efficiency” which stands in between “business success” and “future preparation” is one of the top five very strong relationship. The “very strong relationship” between “overall top management” and “project efficiency” is not necessarily meant that the participation of top management in project implementation is highly important, but it indicates the urgency of top management support to customize the business process and strategies that tailor with specific project requirement to improve its execution and directly impact on “project efficiency”. This attempt is much more effective and provides fast solution instead of restructuring the organizational process and strategies at big scale to suit with never ending requirement of different kind of projects. This finding is consistent with a study done by [36]. The other “very strong relationship” type is between “communication management” and “project efficiency”. An effective communication process can eliminate any misunderstanding across the organizations. Thus, top management support particularly on “communication management” is highly important by ensuring the effective establishment of communication mechanisms to sustain organization’s performance, productivity and profitability. In project level, top management need to be fed with constant information flow to immediately recognize any difficulty and challenges that require their immediate attention with related to the business process and policy to improve the ‘project efficiency’. “Communication management” is the critical intermediary to link the project implementation and organizational strategies as a way to complement the project needs and tailor with external changes such as economic condition and market fluctuation as proved by [25].

On the other hand, there are also other contradict findings demonstrated by the correlation values score. From Table- V, all of the bottom five of correlation values are associated with “customer satisfaction”. The results of the lowest correlation value scores show that four correlation values out of five demonstrate moderate relationship between various individual “top management support behaviours” and “customer satisfaction” which are; (1) “top management expertise” at 0.388, (2) “provision of resources” at 0.459, (3) “communication management” at 0.467, and (4) “top management power” at 0.498.

The other behaviour which is “structural arrangement” demonstrates strong relationship with “customer satisfaction” with correlation coefficient value stands at 0.542. These findings suggest that the top management support is not critically needed to influence on “customer satisfaction”. Customer satisfaction is highly influence by the way they received the services provided by the organization. The functional or services unit are the responsible department to directly handle and interact with the customer, and the extent of their behaviours will influence customer perception and perspectives of the received service. This means that top management involvement in the customer interaction process may not be visible as they are not placed at the frontline to serve the customer. This might be the reason why most respondents’ votes are not reflecting the close connection between “top management support” and “customer satisfaction”.

The respondents’ feedbacks show that “top management support behaviours” in “structural arrangement” demonstrates the highest correlation value among all other behaviours to influence on “customer satisfaction”. This finding implies that top management should emphasis the efforts to meet customer satisfaction by focusing the task at highest organizational level to develop a well-structured organization that can serve the customer effectively. The strategic planning includes creating specialized functional department that can deal and handle the customer needs continuously whilst organizing a supportive customer service unit to facilitate the continuous interaction with the existing client as a way to retain the customers’ loyalty. This will increase the organizational efficiency whilst improving the customer satisfaction index.

C. Research Objective 3: Critical Top Management Supports that Influencing the Project Success

Table-VI shows the results of regression coefficient values between top management support’s variables and project success’ variables. The results are presented in graphical form to assess the criticality of top management supports to impact on project success as shown in Fig. 4.
Fig. 4 presents a clearer graphical information to assess the criticality of top management support in hierarchical order. This way will facilitate top management in prioritizing their strategic participation either directly or indirectly in project implementation to produce most impactful actions to meet project goals and extend the goals’ achievement to affect organizational success at large. Based on the plotted regression results in the radar chart, the pattern of multiple lines are mostly inclined at two different project success criteria which are; (1) future preparation, and (2) business adaptability and success. This finding provides a clear guide to the organization and top management particularly to concentrate on alignment of their strategic plan and actions that suffice project requirement to achieve project success. The key point here is the alignment of organizational strategic actions and strategic implementation by identifying what to be done if they want to be more successful in the future.

Various Top-Management Supports’ impacts on Project Success

Fig. 4. Various top management support’s impact on project success.

Refer to the above chart, the graphical trend lines which are converged at two different project success criteria imply the urgency to deeply explore on these two continuums of success definition, and appropriately identify (1) what are the suitable goals to be set in meeting project success, and (2) how to achieve the desired goals. These two settings are critical as they are associated with the strategic approach to enhance the strategic participation of top management to improve on “business adaptability and success”, and “future preparation”. This is aligned with the literatures’ findings by [43, 15], where strategic management involves continuous cycles of analysing and improving the organizational fundamental activities to align with strategies.

Organizations need to constantly adjust the strategic approaches to tailor with the market and environment when needed as a way to sustain “business adaptability and success”, where it reflects the similar findings produced by [15]. The ability to respond to the changes will create gap and distance themselves from the flounder organizations.

The second area of critical success is “future preparation”. Future preparation is part of organizational strategic management to forecast and identify the probable opportunities and threats bring by the environment changes. Uncertain environment can offer opportunities and threats which may impact the project implementation in different way depending on how the organization deal with the changes. Organizations need to constantly change their established process and true course of action by adapting to the market and business needs, and similar outcome was suggested by [1]. Top management need to adopt changes as a way to seize opportunity. Therefore, they need to innovate new capabilities by gaining experience and develop the expertise through the undertaking projects. This is a way to prepare themselves by making necessary changes in developing new capabilities to create competitive advantage.

The competitive advantage will facilitate the organization to grow in other business segment in the future. The changes in organizational designs and strategies offer wide range of opportunities to shape the organization into a better enterprise in the future. The change will facilitate the organization to prepare for the worst as the established business plan not necessarily work at all time, and consistent with the study’s findings by [1]. Organizations have to consider various aspects in managing organizational change by considering internal and external factors including local, national, and international environment events and the changing trends. They have to determine the probability of future scenarios, the impacts, and the necessary preparation to mitigate the impacts, or seize the opportunities when others see them as threats. This principle will shape an organization to be adaptable to change and prepare the organization to be fitted in undertaking any future project.

IX. CONCLUSIONS

The first objective of this study is to identify the importance factors of the needs of top management support that influencing project success. Based on the analyzed data, the results indicate that the “very high important” top management support factors are; (1) Financial, (2) Stakeholders, and (3) Macro-Economic. All of these factors are closely associated with internal and external project’s opportunities and threats. A project manager may have limitation to access to all of these factors due to limited of authority and access to attend to certain complex matters. The complex matters may include restructuring of financial system and policies to accommodate project’s requirement, engagement with high power stakeholders where commonly beyond the project manager’s reach such as to influence on investors decision to invest or fund projects, to negotiate with local regulators to facilitate the project implementation that may not in favour of country’s laws, and to set reasonable project goals and align with effective organizational strategic plan that are adaptable with economic and environment changes. The second objective of this study is to investigate the relationship between top management support as independent variables and project success as dependent variable. Based on the analyzed data, the results indicate that the “very strong relationship” between these two variables relationship are; (1) “overall top management support” and “future preparation”, (2) “overall top management support” and “project efficiency”, and (3) “overall top management support” and “business adaptability and success”.

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All of these correlation values were not specifying on any individual behaviors of top management support, thus this findings conclude that a combination of overall top management support behaviors are very important to give more impactful results of project success. The combination of top management supports carry dynamic potential from each behaviors to synergize a higher impact relative to individual behaviour.

The third objective of this study is to determine the critical strategies of top management supports that carry high impact actions to influence on project success. Based on the regression analysis, the results indicate that top management should emphasize on prioritizing the specific strategic support based on unique project success criteria. The first part of the analysis suggest that top management should adopt a strategic approach particularly in developing an effective communication management system that can improve the information exchange effectiveness between project team and top management group. The second part of the analysis concluded that top management should sustain business adaptability and success by focusing on two main strategies namely organizational arrangement and communication management. The last part of the analysis suggests that top management should also emphasize on achieving success in future preparation to sustain the current business strategic implementation and be adapted with the market and environment changes. This success can be achieved by building new capabilities through implementation of new project that bring values and open opportunities to organization in developing new capabilities. The project may become as one of the organizational strategy to build up new skills and knowledge across the organization by applying ‘on job training’ concept. This approach will demand higher top management support including restructuring organizational system to facilitate project efficiency, provision of sufficient organizational resources, adopting necessary top management powers to influence employees’ behaviors in supporting organizational new endeavors that demands more efforts and higher motivation of employees, and improving communication mechanism and system to increase project efficiency by applying the latest industrial revolution 4.0 (IR 4.0).

X. RECOMMENDATIONS

This study did not provide detail strategic approach on finance, stakeholder management and macro-economic factors, thus a potential study can be executed to refine the subject of focus on these three critical areas. Scholars who may have the same interest to study the problems associated with top management support and project success can also consider to carry out study in other different industries but related to project management practice such as logistics and transportation industry, information technology industry, food industry, automotive industry, research and development field, manufacturing industry and many more. The study also can be set at different locations, which may generate discrepancies of findings, henceforth will create another extension of knowledge in top management support and project success literatures.

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