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IMPROVING PROJECT MANAGEMENT PRACTICE IN GHANA WITH

FOCUS ON AGRICULTURE, BANKING AND CONSTRUCTION

SECTORS OF THE GHANAIAN ECONOMY

Author Details (optional)

Gladstone Stanley is currently Monitoring and Statistics Officer in Ghana Education Service, Ghana, PH - +233543029089. Email: gladstanley@gmail.com

Karim Philips is currentlythe President of Young Heart Foundation University, Country, PH- +233560698801. E-mail: dephil54@gmail.com

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Abstract

This seminar paper was a perception study which identified and analyzed the potential project failure/success factors (project critical factor(s)) in three (3) selected sectors- Agriculture, Banking and Construction of the Ghanaian economy. The paper also identified project management tools and techniques whose application(s) were familiar to the Ghanaian project practitioners and were associated with project outcomes (success/failures). The paper employed mainly quantitative research approaches by designing an independent (project factors) - dependent (project success criteria) variable linear model.

Introduction

Goodman and Love (1980) indicate that Government's policies are often translated into programs and projects. The projects are therefore seen as vehicles through which government's policies and programs are achieved. The impact of government's policies and programs are directly linked to the effective implementation of those projects under the program. The Agriculture, Banking and Construction sectors alone constitute more than 50 percent of the GDP in Ghana. Projects in these important sectors suffer a lot in terms of effective and efficient implementation. Many Agriculture projects have been abandoned in the bush. Banking projects have suffered similar situations where at the end of project, they receive minimum patronage and loss. A typical example of such a banking project is the E-zwich project in Ghana. Failures of construction projects are more evident than in the other two sectors. All these, as has already been mentioned, are a drain on the developing economy.

Project failures in Ghana have been attributed to many reasons such as socio-political, economic, technological, macro and micro-global reasons without any empirical evidence (AfDB, 2006). Juran (1992) indicates that generally, the review of a project history and the root causes of project failures are frequently neglected for projects with a long development cycle. Project failure rates in Ghana are high and the costs involved are excessively high (Daily Graphic, 2006). The phenomenon has been that, in the past and even now, most project contracts have been won by foreign companies. There is little or no knowledge transfer to local companies by foreign companies who win contracts and execute projects in Ghana. Elsewhere, nations have benefited from foreign companies who executed contracts in their home countries because of the transfer of knowledge, experience and expertise (Walker et. al., 2006). The lack of knowledge transfer denies nations the benefits that go along with awarding contracts to foreign companies (Schindler and Eppler, 2003). Consequently, the local companies do not "grow" quickly to compete on an equal footing with their foreign counterparts (World Bank Report, 2001).

This research is carried out on the premise that an understanding of factors critical to project success and failure in three major sectors in Ghana could be regarded as a good step forward to reduce project failure rates. It would inform project planners at the project formulation stage, guide at the planning stage, direct at the implementation phase and improve project implementation efficiency, avoiding certain types of losses. Such improvements could lead to a reduction in the number of delayed projects, reduction in cost and ultimately failed projects.

2. Literature Review

2.1 Conceptual and Operational Definition of Terms

Project

One of Turner's (1990) definitions which looks quite suitable for the purpose of this study is "an endeavor in which human, material and financial resources are organized in a novel way, to undertake a unique scope of work, of given specification, within constraints of cost and time, so as to achieve beneficial change defined by quantitative and qualitative objectives" (Turner 1993, p35).

Amidst all these definitions certain key characteristics feature in almost all. These are:

- ✓ Set of Activities or Tasks
- ✓ Has a Time-frame
- ✓ Has a well-defined objective
- ✓ Consumes resources (i.e. money, people, materials, equipment)
- ✓ Has a quality aspect
- ✓ Involves risk at every step of the Process
- ✓ It is unique: it may never be repeated in the same way by the same group of people at the same place.
- ✓ Intended to generate benefit
- ✓ Future benefit perspective

Project Management

The Project Management Body of Knowledge (PMI, PMBOK®) defines Project management as "the application of knowledge, skills, tools and techniques to project activities in order to meet project requirements (PMI, PMBOK®, 2008 p6). In other words the project manager must do what is required to make the project happen (Burke, 2003 p3). This definition clearly identifies that the purpose of the project is to meet the stakeholders' needs and expectations. Turner (1999) defines it as "the process by which projects are successfully delivered, and their objectives successfully achieved".

Project Management Success

The definition of project management suggests a shorter term and more specific context for success. They would include the obvious indicators of completion to budget, satisfying the project schedule, adequate quality standards, and meeting the project goal (Munns and Bjeirmi, 1996).

Successful project management can then be defined as having achieved the project objectives:

- ✓ Within time
- ✓ Within cost
- ✓ At the desirable performance/technology level
- ✓ While utilizing the assigned resources effectively and efficiently
- ✓ Accepted by the customer (Kerzner 1998) and key influential stakeholders

Project Success

Based on the literature and the author's own observations, project success is perceived as a multidimensional concept, and the objective is to see what the specific dimensions that make sense for different kinds of projects are. Three major dimensions have been considered in the study. The first is related to meeting specified project goals such as time, budget, performance and other requirements. The second is related to customer benefits, such as satisfaction, impact, and loyalty. And the third is related to the benefits derived by the organization performing project, such as profits, market share, or growth. The challenge in this respect is to be sure of the reliability of these dimensions being those actually defining project successes. Shenhar et. al. (2001)

Project Success/Failure Criteria

These are the measures by which success or failure of a project or business will be judged.

Specific Critical Factor(s) of Projects

Common Critical Factor(s) of the three Sector Projects

Capability Maturity Model

The Agriculture Sector in Ghana

Agriculture contributes 36% of Ghana's total Gross Domestic Product (GDP), 35% of its total export earnings, and 60% of employment. Agriculture, in this respect, is critical in controlling inflation. (Statistic Research and Information Directorate (SRID), 2005)

About two thirds of the poor are located in rural areas and are involved in food farming. Since the implementation of Ghana Poverty Reduction Strategy I (GPRS 1 - 2003 - 2005) the agriculture sector has achieved some progress in the area of farmer access to mechanized tillage, processing equipment and

also in the area of fish farming; the number of hatcheries constructed has increased and post-harvest losses have reduced (GPRS, Report, 2006).

A number of aid agencies, internal and external NGOs, public and private organizations, have initiated projects in the agriculture sector. The purposes of these projects have ranged from increasing food production to increases in export earnings. Project management issues have mainly contributed to either the success or failure of most of these projects under study. Critical success and failure factors mentioned in the literature have been identified to be contributory factors in most of these projects.

The Banking Sector in Ghana

A bank is an organization, usually a corporation, chartered by a state or federal government, which does most or all of the following: receives demand deposits and time deposits, honors instruments drawn on them, and pays interest on them; discounts notes, makes loans, and invests in securities; collects checks, drafts, and notes; certifies depositor's checks; and issues drafts and cashier's checks. (Internet – Investorwords.com). In Ghana the business of banking is spelt out in the Banking Act, 2004 (Act 673).

Towards the end of the 1980s a financial sector restructuring program was implemented in Ghana. It involved the reorganization of the majority of the country's financial institutions, the reform of the regulatory system and strengthening of bank supervision. Earlier, in the early 1980s, the country had embarked on an Economic Recovery Program (ERP) as imposed by the International Monetary Fund (IMF).

One of the key elements required for its success was an efficient and properly functioning banking system. However, it quickly became clear that the banking system at the time was not up to the task of supporting the objectives and goals of the Economic Recovery Program.

A diagnostic study revealed low credit standards at most of the banks, resulting in large portfolios of nonperforming loans, a weak regulatory system, non-uniform accounting standards, poor bank supervision, and overstaffing.

The restructuring effort put in place a new banking law and new accounting standards for banks, strengthened the bank supervision department of the central bank, recapitalized managements and operating procedures, and rationalized the staffing of the banks affected. The Government also took over the bad loans of the distressed banks, which were all state-owned, and recapitalized them.

The Construction Sector in Ghana

A developing country, like Ghana, requires a wide range of construction projects and goods to achieve its socio-economic developmental objectives in the transport, energy, water and sanitation, mining, housing, education, health and agriculture sectors.

Roads, ports, energy projects and especially housing are all at the forefront of development work in Ghana as the government moves to achieve its vision of transforming the country within the next 20 years. Its 2020 Vision aim is that the country will achieve "middle income" status by UN/World Bank definition. One example of a formal construction projects follow. The information includes: Project's Name, Project Location, Project Client/Funding Agency, Implementing Agency, Project Durations and Project Contract

Sum, Project Objectives, Key Stakeholders/Target Group, Category of the Project whether it was successful or not.

Data Analysis and Result Discussion

SurveyPopulationandSampling

The populationofinterestforthisresearchstudyincludedprojectmanagement practitionerswithexposureinanyof these3sectors;Agriculture,Bankingand Construction inGhana. Participants weredrawnfrom Professional AssociationsandInstitutionssuchasthe GhanaInstituteof Engineers,theBankingCollege,Chartered Instituteof Bankers,GhanaAssociationof Managers,andGhanaAssociationof Bankers andAssociationofBuildingContractors.

DataCollection

Dataforthemodelwascollectedviaquestionnaires, which we readministered to 15 differentorganizationsin Ghana.Participantsweretargetedfrom the threesectors. Participantswere requestedto assess/evaluate the extent to which the 18 Project Factors were important in achieving project successine ach ofthe3dimensions ofproject success.ThisusedaLikertscalefromof1to5, with1being"notimportant", and5 wascollectedrepresentingthe being"mostimportant".In addition.data followingthree projectsuccessdimension:projectgoal,customersatisfaction,benefitof organization measuredin percentagefrom theoriginalplanona scaleof1to5(1being"failedto achieveany", and 5 being "achieving all performance targets").

FinancingStrategyofProjects

ProjectFinancingofAgricultureProjects

All85validrespondentsindicatedstatusoftheirprojectsfunding.Outofthat,19persons(22.35%)indicatedbeforetheprojectwasstarted,34persons(40%)indicatingwasStaggeredbeforetheprojectwasstarted,34wasStaggeredtimeand30persons(35.29%)indicatedwasStaggeredbeforetheprojectwasstarted,34

ProjectFinancingofBankingProjects

All78validrespondentsindicatedthestatusoftheir

that,24persons(30.77%)indicatedfundingbecameavailable

beforetheprojectwasstarted,21persons(26.92%)indicatingthatitwasStaggered

basedintimeand32persons(41.03%)indicateditwasStaggeredbasedonphase/or

phasedependentand1person(1.28%)indicatingitwasopenfunded.

ProjectFinancingofConstructionProjects

All105validrespondentsindicatedthestatusoftheirprojectsfunding.Outofthat,23persons(21.90%)indicatedfundingbecameavailablebeforetheprojectwasstarted,19persons(18.09%)indicatingthatitwasStaggeredbasedontimeand62persons(59.04%)indicateditwasStaggeredbasedonphase/orphasedependent

and1person(0.95%)indicatingitwasopenfunded.

ProjectPerformance

AchievementofPMObjectives/goalsofAgricultureProjects

projectsfunding.Outof

With regard to the Agriculture sector, all 85 valid respondents scored the performances the tobe2.80.Only2.4 oftheirprojects. The mean value was computed percentofrespondentswere oftheviewthattheirprojectsachievedall project managementgoals/objectives.Whilstonly3.5percentindicatedthattheirprojectsdid notachieveanyof the project management objectives at all. Therefore the majority of respondentswere of theobviousviewthatmostprojectsachievedsomeof theproject managementobjectivesandnotalltheobjectives.

AchievementofPMObjectives/goalsof BankingandConstructionProjects

For the Bankingsector, the mean value was 3.28, higher than that attained by the Agriculture sector and could beinterpreted that more of the respondents in the Banking sector perceived more achievement ofp r o j e c t managementobjectivesthantheAgriculture sector. The mean value of the Construction sector was also computed as 3.44, the

highestamongstthethreesectors.Whilsttheperceptionhas beenthat Construction sector projects achieve project management objectives least; it is the highestonthecontraryinGhana.Thisresultshowsthatmoreof Constructionsector projectsachieveprojectmanagementobjectivesthaninthe other2 sectors.

AchievementofCustomerBenefits

Thisreferstotheachievementofcustomerbenefitwhichcomesinmanyformssuchassatisfaction,impact,loyalty,whichareimportantelementsindeterminingthesuccessofaproject.Inthatrespect,asimilar5-pointLikertscalewasusedforthescoringoftheachievementofc u s t o m e r benefit/satisfaction.The mean value obtained for the Agriculturewas 2.84,lowerthan3.22obtainedfor the Bankingsectorand3.53for the Constructionprojects. Thisaspectoftheresearchmakesamajorassumptionthattheprojectpractitionersarticulatetheperceptionsofcustomerswell,whichmayormaynotbetrue.Thisisoneofthelimitationsofthisstudy.Figure3.1showstheachievementofcustomersatisfactionontheprojects.

ProjectCustomerSatisfaction



Source:FieldData,2018.

Achievement of Benefits to Organization Performing Project

ThemeanvalueobtainedfortheAgriculturesectorprojectwas 2.81forthe Benefitof OrganizationPerformingtheProject.Thescoringsare depictedin Figure 3.2. The mean valueforthe Constructionsectorwas3.35.The Bankingsectorwas3.19and thatforthe Constructionsectorprojectshaveagainrecordedthehighestintermsof benefitthat organizationsderivefromdoingprojects.Generally,theconstructionindustryis more project-oriented. In other words their businesses survive through projects. The explanationthatcouldbegiventothisseemingcontradictionisthatthoughthe Banking sectorisknownto bericherinGhanathantheConstructionsector, it we althis generated mainlybyitsoperationsandnotnecessarilythroughprojects.Constructioncompanies

obtainbenefitbyundertaking

projectsonashorttermbasis.Figure3.2showstheachievementoforganizationsperformingtheproject.



 $\label{eq:Figure5.13} Figure 5.13 A chievement of Benefit of Organizations Performing Project$

Source:FieldData,2018.

ProjectSuccess/FailureFactors

OverallSuccessofProjects

Respondentswereaskedabouttheachievementof overallprojectsuccess.Theoverall success/failure referstothecombination ofthethreesuccessmeasures/criteria used. These are the achievement of project management objectives; the achievement of Customerbenefit;andthentheAchievementof benefittoOrganization.Overallsuccess

was measured on a Likerts cale of 1 to 5. With 1 being Very Low; 2 = Low; 3 = Medium; 4 = High and 5 = Very High.

TheAgriculturesectorrecordeda computedmeanvalueof 3.22.TheBankingsector recorded a computed mean value of 3.54 and the Construction sector recorded a computedmeanvalueof 3.69. TheConstructionsectorprojectsareperceivedtohave achieved themostoverall successamongst thethreesectors.

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Conclusion

It wasfoundthatthe followingfactorssignificantlycorrelated with the project success criteria for Agriculture projects:

- 1. LackofEffectiveProjectManagementTechniquessignificantlycorrelatesAchievementof the ProjectManagementObjectives(Cost,Time,and Performance)witha negative correlationcoefficientof0.666andmeanvalueof3.15ona5pointLikertScale;
- 2. Demandon ProjectResourcesalsosignificantlycorrelates theoverall successof the project usingachievementof ProjectGoal, CustomerBenefitsandBenefittoOrganization witha negativecorrelationcoefficientof0.652 and mean value of 3.41 on a5 point Likert Scale;
- 3. Delay in payment or release of funds significantly correlates the achievement of the ProjectManagement Objectives (Cost, Time, Performance) with an egative correlation coefficient of 0.794 and mean value of 2.93 on a 5 point Likert Scale; it again significantly correlated with the achievementof Customerbenefitfromthe project negativecorrelationcoefficientof (satisfaction, impact, loyalty) witha 0.621 and mean valueof on2.93a 5 pointLikertScale;andfinallysignificantlycorrelatedwiththe AchievementofOrganization'sbenefit(Profit,MarketshareorGrowth)witha negative correlationcoefficientof0.566 and mean value of 2.93 on a 5 point Likert Scale.

Forbankingsectorprojects, the statistical analysis results shows relationship between some independent variables and dependent variables that were found to have significance at 95% confidence level. It was found that:

- 1. IneffectiveMonitoring&Evaluationsignificantlycorrelatesnegativelywith*theoverall* success of the project using achievement of Project Goal, Customer Benefits and BenefittoOrganization;
- LackofUserInvolvementsignificantlycorrelatesnegativelywiththeachievementof Customerbenefitingfromtheproject(satisfaction,impact,loyalty);
- 3. InadequatelyDefinedTaskssignificantlycorrelatesnegativelywith *theoverall success of the projectusingachievementofProjectGoal,CustomerBenefitsandBenefitto Organization;*

4. LackofEffectiveProjectManagementTechniquessignificantlycorrelatesnegatively with Achievement of the Project Management Objectives (Cost, Time, and Performance);it alsosignificantlycorrelatesnegativelywiththeachievementof Customerbenefitingfromtheproject(satisfaction,impact,loyalty);

5. Improper Definition of Specification significantly correlates negatively with the overallsuccessoftheprojectusingachievementofProjectGoal,CustomerBenefits andBenefittoOrganization;

6. Improper Feasibility Studies significantly correlates negatively with the overallsuccess of the project using achievement of Project Goal, Customer Benefits andBenefittoOrganization; and

7. UnrealisticRequirementsignificantlycorrelatesnegativelywiththeAchievementof theProjectManagementObjectives(Cost,Time,andPerformance)

ForConstructionprojects, the statistical analysis results show a relationship between some independent variables and dependent variables that were found to have significance at 95% confidence level. It was found that:

- 1. DemandonProjectResourcessignificantlycorrelatesnegativelywithachievementof theproject goals(Cost,Time,andPerformance); significantly correlates negatively withtheachievement ofCustomerbenefitingfromtheproject(satisfaction,impact, loyalty); significantlycorrelatesnegativelywith theoverall successof theprojectusing achievementof ProjectGoal, CustomerBenefitsandBenefittoOrganization;
- 2. Improper Definition of Specification *significantly correlates* negatively with the achievementofOrganization'sbenefit(Profit,MarketshareorGrowth);
- 3. Delay in payment or release of funds significantly correlates negatively with a chievement of the project goals (Cost, Time, and Performance).

Thecritical factors for each of the sectors have been discussed. It was also clear thatsome ofthecritical factors we recommon tothe sectors. Forexample "Lack of effectiveProject Management Technique" was found to be common to both the Agriculture and Banking sectors projects. Thefactors "DemandonProject Resources" and "Delay inefactors "DemandonProject Resources" and "Delay inRelease of Payment" we refound tobecritical for Agriculture and Construction projects.The factor "Improper Definition ofSpecification" was common toBanking and

Constructionprojects. Therewas no common critical factor for projects of the three sectors.

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