The Role and Need to Engage Young Quantity Surveyors as Construction Economics

Experts as we build back together.

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Keywords; Access to land; Affordable housing; Capacity building; Implementation of plans

**SUMMARY** 

Cost is a major factor that affects the goals of actualizing affordable housing to meet up for its

demand. In other to meet the goals of affordable housing and infrastructure we need better

value for money and also, we need to plan for developmental projects that would be of

economic value and benefits throughout the project life-cycle. This is the only way we can be

assured of affordable housing for all especially after the current global disasters. Cost control

is not only limited to construction cost or present cost of acquiring a developmental project but

futuristic cost that is cost benefits that can be achieved throughout a project's lifecycle. This

brings up the need for professionals to be involved in the development planning stages of

project. If we take the steps to ascertain that all developmental projects have lifetime economic

value when invested into through efficient cost planning, a lot will be achieved in land

management and implementation of plans for development within a short period.

The research work takes a look at cost control as the reason why we must engage quantity

surveyors as construction economic experts during project development planning. It

emphasizes on the use of the right techniques as well as the right professionals who are

specially trained with professional tools that would significantly help to achieve projects that

yields not just present but future benefits. As we build back together, we would enjoy the

benefits of using the right tools and engaging the right professionals. This research aims at

studying these tools and an enquiry on the level of engagement of young QSs who are trained

to utilize them. The research design adopted was a descriptive survey study in an attempt to

explain the factors that affect effective planning and implementation of affordable housing and

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land development, the expertise of the young Quantity Surveyor that emphasizes the need for his involvement in the process, the Significant Contributions of the young Quantity Surveyors and their Level of involvement in the development planning process. Descriptive survey study was used because it was best suited to answer the 'what' research questions in the study.

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1.0 INTRODUCTION

Land has been used for various purposes. One of the basic uses of land is for the provision of

shelter. Housing and other infrastructure are provided on land. The economic impact of climate

change and the covid 19 pandemic has led to a lot of losses as businesses shut down, jobs as

well as affordable housing and infrastructure were lost within this period. In other to overcome

these challenges there has been a need to embark on recovery paths to meet up with the global

SDG goals. Land needs to be developed to provide affordable housing and other infrastructure.

Ayodele (2004), and Adebayo (2006) describe a sustainable socio-economic development as a

situation where the following attributes do not decrease over time; real income: improved

healthcare and nutritional status; educational achievement; access to good infrastructures; fair

neutricare and natritional status, educational active remem, access to good initiastructures, tail

income; distribution and increase in basic freedom. As we build back together, one of the major factors that affects actualization of the goals of affordable housing and infrastructural

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development is cost. Cost needs to be properly planned during the development planning

stages to ensure that value for money and economic benefits from various projects investment

are derived. It is also important to assess how projects could be completed on time, quality and

budget and we need the involvement of professionals to accomplish these goals.

The young Quantity surveyor has been exposed to new realities. Their roles as cost managers

extends towards futuristic cost analyses and management. They are development planners and

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their roles as planners goes beyond managing and controlling construction projects, it is also

futuristic. Development planning involves cost control. Cost control can be applied to making

investment decisions based on life cycle costing that is in terms of future cost and the time

value of money. Quantity surveyors have developed sophisticated skills, models and

techniques, which have been applied in construction procurement in diverse projects. Refining

the services of quantity surveyors to play an effective and pro-active role throughout the

development cycle of project, is therefore very important. (Citing Brummer, 2004). This study

is designed to obtain the relevant factors that affect effective planning and implementation of

affordable housing and land development. And to know the roles and involvement of the young

Quantity Surveyors in development planning as we build back together.

2.0 LITERATURE REVIEW

2.1 DEVELOPMENT COST AND INVESTMENT PLANNING CHALLENGES IN

**OUR WORLD** 

There has been a lot of changes in our world, ushering us into a new reality. However, the goal

of a more sustainable future has not changed. One of the ways to face this new reality is in the

proper management of resources. There has always been a growing and continuous demand for

development of land. This development cuts across all sectors but basically the construction

industry. A growing construction industry yields increased fiscal resources to the government

and influences trend of technology absorption and development (Bakar, 2009). Successful

construction sector experiences has been encountered in countries such as the United

States(U.S), Brazil, and China. In the U.S., for example, the companies charged with designing,

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building, maintaining, and managing the transportation infrastructure, including their supplies,

generated an output value of over US\$120 billion in 2010, exceeding that of; auto-repair &

maintenance (\$116.8 billion), aircraft manufacturing (\$82.4 billion) and coal mining (\$29.8

billion) (Transportation Development Foundation - ARTBA, 2010).

It is a known fact that the construction industry has the potential for spurring a rapid and broad-

based growth for developing nations despite the present challenges of covid 19 and global

disasters. Although, the potential of the construction industry for fostering structural

transformation and economic development is attainable, this sector has been pledged by cost

management barriers. International experiences in the construction sector have not always been

successful, as the World Bank documents. In most developing countries the construction

industry has failed to provide the prerequisite for development and safeguarding better living

conditions. Barriers to the sector's performance remain widespread, decreasing the chance to

transform the construction industry into 'the engine of growth' (World bank, 2004) The

combined effects of these reported problems are increased uncertainties and risk when

embarking on construction projects.

Failures in this sector also can be trace to Less involvement of efficient planners, Low

emphases on the concept of value for money during cost planning. Lack of proper adherence

to cost estimates and cost plan. Kirun & Varghese, (2015) and sanmi & Hashim, (2013)

identified challenges which include unstable market condition, choice of procurement method,

non-clarity of exclusions, improper planning and schedule, reworks due to errors, lack of

research and innovation, price and design risk. It is quite debatable that barriers of controlling

construction cost could be considered as challenges of cost control practices. The antecedents

of these challenges are to a large extent, the results of attitude of management and the people

in whose hands cost control practices lay.

Reliability is an important factor in the management, planning and design of any engineering

or construction product that needs to be addressed. Today, the global economy are not based

only on initial purchasing cost but on their total life cycle cost (Dhillon, B. S ?Design

Reliability crc press2000). Projects life cycle cost management is a necessity.

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2.2 ENGAGING YOUNG QUANTITY SURVEYING PROFESSIONALS TO COMBAT

DEVELOPMENT COST AND INVESTMENT PLANNING CHALLENGES IN OUR

WORLD

The Young Quantity Surveyor has a role to play as a financial adviser for the construction

industry. They play a large role as the link with the future and they play a role in adapting to

the new reality. They need to be more involved in the development planning stage. As an

economist, the Quantity Surveyor will need to develop understandings and techniques of all

kind that will deal, not just with the items that go into the accounting of a particular project,

but with the forces, economic that determines the implementation of the project and its life

cycle costing. To achieve this there is a need to carry out cost control in terms of investment

appraisals and project viability studies. Also, projects should be carried out at the desired cost,

quality and time through proper cost planning and budgeting. A budget can be considered as a

document, or a quantitative expression of a plan of action which aids the coordination and

implementation of the plan (National Minority AIDS Council, 2009).

Reliability as well is an important factor. Procurement of infrastructural products are not only

based on their initial purchasing costs, but on their total lifecycle cost (Dhillon, B. S ?Design

Reliability CRC press2000). In order to perform an effective life cycle cost analysis and

management specialist needs to be engaged. One of the principal duties of the Quantity

Surveyor is the preparation of Bill of Quantities which is a vital tool for management of

construction projects. Priced Bill of Quantities provides good basis for preparation of cost

analyses for use in cost planning or preliminary cost estimate for future projects. The Quantity

surveyor can as well look into cost implications on the purchase of land for housing, feasibility

studies for to ensure that the location and plan of a project would bring future benefits over a

period of time. Cost control can serve as a key to making wise investment decisions. It involves

feasibility studies and cost-benefit analysis to ascertain the future value of carrying out a

project. What benefits would an investor derive in the future from a present investment.

Quantity surveying professionals use life cycle cost management techniques to carry out their

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evaluations and make the right decisions concerning a project. They are needed as active

participants during the benefit-to-cost analysis of project selection. It is highly unlikely that

client will approve a project where the costs exceed the benefits. Benefits can be measured in

either financial or nonfinancial terms. The process of identifying the financial benefits is called

capital budgeting, which may be defined as the decision-making process by which

organizations evaluate projects that include the purchase of major fixed assets such as

buildings, machinery, and equipment. Professional when involved would engage in life cycle

cost management and cost control. What we need most at the moment is the planning of

projects with the future cost and benefits in view using professional tools and skills of the

**Quantity Surveyor** 

2.3 EVALUATING THE FUTURE VALUE OF A PROJECT INVESTMENT DURING

**DEVELOPMENT PLANNING** 

Cost planning and management goes beyond managing and controlling construction projects,

it is also futuristic. Cost control can be applied to making investment decisions based on life

cycle costing that is in terms of future cost and the time value of money.

2.3.1 TOOLS TO ASCERTAIN THE FUTURE VALUE OF A PROJECT

INVESTMENTS.

Some useful tools for cost control used by professionals include.

LIFE CYCLE COST TECHNIQUES

Life cycle cost management is concerned with the time-stream of costs and benefits that flow

throughout the life of a project, with future costs and benefits converted to present values by

the use of discounting techniques and in this way the economic worth of an option can be

assessed. It determines the total expenditure of a project by measuring and analyzing the

construction, maintenance and operational elements of an asset during the asset's through life

(Dell' Isola and Kirk, 2003). Essentially, the main task in carrying out a Life cycle cost study

is to prepare a cash flow schedule for the project including all the different user costs as they

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occur throughout the project life cycle. Every building project involves streams of payments

over a long period of time (usually the life of the building). The payments are of three main

types:

(1) present payments covering the acquisition of the building site, erection of the building and

professional fees;

(2) annual payments relating to minor repairs, cleaning, heating, lighting, rents and the like;

and

(3) periodic payments such as external painting at five-year intervals and replacement of

services or other components.

All these varying types of payments have to be converted to a common method of expression

to permit a meaningful comparison to be made between alternative designs. The process is

often referred to as discounting future costs and is based on the premise that if the money were

not spent on the project in question, it could be invested elsewhere and would be earning

interest. We are often concerned with annual payments throughout the life of a building, which

is commonly taken as sixty years.

Investment appraisal, which is a part of the business case, will, if properly structured, improve

the decision-making process regarding the desirability or viability of the project. It should

examine all the realistic options before making a firm recommendation for the proposed case.

The investment appraisal must also include a cost/benefit analysis and take into account all the

relevant factors such as:

a) Capital costs, operating costs and overhead costs

b) Support and training costs

c) Dismantling and disposal costs

d) Expected residual value (if any)

e) Any cost savings that the project will bring

f) Any benefits that cannot be expressed in monetary terms

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To enable the comparison to be made of some of the options, the payback, return on capital,

net present value (NPV) and anticipated profit must be calculated. In other words, the

project viability must be established.

**FEASIBILITY STUDIES** 

All projects simply begin as an idea. An "idea" is a rough notion in our head about something

we like or want to do. As an idea is developed, it goes through a fine-tuning process which

results in a final form known as a "concept". Many concepts will never be developed, while

some will. A feasibility study is an important technique which helps to decide which concepts

should be developed as a project. As stated by Katharine Bause (2014) decided that the

feasibility study definition in economic logic are examinations that try to find whether a

development of project is a cost-effective and feasible for a client to continue the proposed

development or not

Feasibility studies in the construction sector are preliminary studies undertaken at the very

early stage of a project. Construction projects require huge investment, in both time and money,

and for this reason it is important to establish if the project will be feasible at a very early stage.

The purpose of a feasibility study is to;

• Establish if the project is viable.

• Identify numerous feasible options.

• Assist in the development of business cases and project execution plans.

A detailed feasibility study can take time in accordance with the size of the project. It will let

the client know if the project is viable, needs to be adjusted or is unlikely to succeed. We assess

the project feasibility in five specific areas:

Technical Feasibility

In this area, the Quantity Surveyor will study the whole project from a technical aspect. He will

use his knowledge to decide if the proposed project is technically possible. This will involve

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considering the size of the site, access, land topography, geotechnical information, existing

buildings on the site, flooding risks and other environmental factors associated with the site.

• Economic Feasibility

This is where a cost benefit analysis is carried out. In this step we determine if the project is

economically viable. Based on experience and current market trends, we will analyze various

options and advise on what type of project or scheme is best suited to the site.

• Operational Feasibility

This stage assesses how well the proposed project solves problems and meets goals. Whether

it is a new school, hospital, housing development or road, every construction project is and

should be an answer to a problem. The operational feasibility takes a bigger picture view of the

outcomes of the project to ensure that when completed as planned and budgeted, that the

identified problems and goals are achievable.

• Scheduling Feasibility

This assessment is arguably the most important for project success. A project will fail if not

completed on time. In scheduling feasibility, the Quantity Surveyor estimates how much time

the project will take to complete. It is beneficial to analyze the design, materials, budgets,

environmental impacts, regulations, and risk areas. It is also important to assess the ability of

the team to succeed in completing the construction project on-time and on-budget

If the consensus is that the project is feasible based on these five assessments, it will be time to

move on to the next step in the planning phase of the project.

**COST/BENEFIT ANALYSIS** 

Once the cost of the project has been determined, an analysis has to be carried out which

compares these costs with the perceived benefits. The first cost/benefit analysis should be

carried out as part of the business case investment appraisal, but in practice such an analysis

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should really be undertaken at the end of every phase of the life cycle to ensure that the project

is still viable. The phase interfaces give management the opportunity to proceed with or,

alternatively, abort the project if there is an unacceptable escalation in costs or a diminution of

the benefits due to changes in market conditions, such as a reduction in demand caused by

political, economic, climatic, demographic or a host of other reasons.

Both costs and benefits are spread over long periods of time involving difficult future

predictions and discounting techniques, some costs and benefits also are indirect and are not

easily costed and some intangible benefits become a matter of opinion. In all construction

projects, a balance between cost and value must be established. The financial appraisal of the

project can either be assessed by calculating the value of the end product and working out the

project cost with an eye to value (Code of practice for project management for construction

and development, 2010).

2.3.2 SIGNIFICANT CONTRIBUTIONS OF THESE TOOLS IN DEVELOPMENT

PLANNING.

According to Kibert et all. (2002), sustainable construction considers all the life cycle stages

of the built environment: planning, design, construction, operation and

deconstruction/demolition. The best choice in terms of initial investment costs may not be the

best choice when a life cycle cost analysis is performed. Therefore, if cost is analyzed with

these tools in terms of investment cost, development sustainability will be achieved. Also, with

life cycle cost benefits, projects will be achieved on time and to cost, the overall planning

process will be faster and more efficient, reduction in abandoned projects.

3.0 RESEARCH METHODOLOGY

The research design adopted was a descriptive survey study in an attempt to explain the factors

that affect effective development plan and implementation, the Significant Contributions of the

Quantity Surveyors tools in the development planning process and the Level of involvement of

young Quantity Surveyors in the process. Descriptive survey study was used because it was best

suited to answer the 'what' research questions in the study. This study is designed to obtain the

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relevant factors that affect development planning and implementation and to know the level of

involvement of young Quantity Surveyors.

3.2 Research Sampling Technique

3.2.1 Population/Sample Population

The target population (N) for the research work is Quantity surveying professionals and other

development professionals who are involved in development planning in Nigeria. The sample

frame is professionals based in Rivers state. A sample size of thirty (30) professionals is chosen

to administer questionnaires. This is because the total number of professionals cannot be

ascertained.

3.3 Data Collection

In sourcing data for this research work, both primary and secondary sources were used. Hayatu

(2008) citing Thirkettle (1972), described data collected through primary sources as data

expressly collected for specific purpose. He further stated the advantage of primary sources of

data as exact information required is obtained.

3.4 Data Collection Strategy

The nature of this research work prompted the use of close ended structured questionnaire,

which was used to obtain quantitative data from the respondents. The questionnaire was also

designed to seek the opinion of the respondents. A total of Thirty (30) questionnaires were

distributed.

3.5 Data Analysis

The research work adopted statistical measures for analyzing the data which employs the

presentation and analysis. While descriptive form of statistical tools such as the weighted mean

was employed.

4.0 FINDINGS AND DISCUSSIONS

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Following the administration and subsequent collection of responses the following are the results and interpretation. In Table 4.1 that follows, the administration of questionnaire and response rate calculated are shown.

**Table 4.1: Administration of Questionnaire** 

| Variable                   | Number of respondents | Percentage % |
|----------------------------|-----------------------|--------------|
| Questionnaires returned    | 28                    | 93           |
| Questionnaire not returned | 2                     | 7            |
| Total                      | 30                    | 100          |

As indicated above 30 questionnaires were administered to the various respondents, 28 questionnaires were duly answered and returned. A total of 2 questionnaires, were not returned. The total responses yielded the response rate of 93%. The entire respondents were residents of Port Harcourt metropolis.

**Table 4.2** Academic Qualifications

| Qualification | HND & M.Sc |       | MBA   | Ph.D  | Others |
|---------------|------------|-------|-------|-------|--------|
|               | B.Sc       |       |       |       |        |
| Frequency     | 10         | 5     | 4     | 4     | 5      |
| Percentage    | 35.71      | 17.85 | 14.28 | 14.28 | 17.85  |

**Key:** HND = Higher National Diploma, B.Sc = Bachelor of Science, M.Sc = Master of Science, MBA = Master of Business Administration, Ph.D = Doctor of Philosophy

Table 4.2 shows that about 36% of the respondents have a minimum of B.Sc degree in courses related to the Development planning. This indicates that the result was gotten from professionals involved in development planning process.

**Table 4.3: Categories of Professional** 

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| Professional Category              | Frequency | Percentage |
|------------------------------------|-----------|------------|
| Quantity surveyors                 | 19        | 67.86      |
| Development planning professionals | 9         | 32.14      |
| Total                              | 28        | 100        |

As indicated above, the majority of the respondents are Quantity Surveyors'. They constitute 68% and the Development planning professionals constitute 32% of the total study population. This indicates that more of the respondents are Quantity Surveyors involved in development planning.

In the analysis that follows, average ranking or weighting of each identified factors are assigned value in order of ranking.

Table 4.4: Factors affecting development cost and investment in our world today

| Factors  | 5  | 4 | 3 | 2 | 1 | F  | Fx  | Score | Rank |
|--|----|---|---|---|---|----|-----|-------|------|
| Less involvement of efficient planners                               | 15 | 5 | 5 | 5 | 3 | 28 | 123 | 4.39  | 1    |
| Low emphases on the concept of value for money during cost planning. | 15 | 5 | 5 | 2 | 1 | 28 | 115 | 4.10  | 2    |
| Lack of proper adherence to cost estimates and cost plan.            | 15 | 6 | 3 | 4 | 5 | 28 | 112 | 4.00  | 3    |

Grand Mean = 4.06

From Table 4.5 above, all the identified factors affecting effective development planning and implementation are significant. Less involvement of efficient planners is ranked 1<sup>st</sup>; Low emphases on the concept of value for money during planning ranked 2<sup>nd</sup> Lack of proper adherence to cost estimates and cost plan ranked 3<sup>rd</sup>; with corresponding mean scores of 4.39, 4.10,,and 3.75 respectively.

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Table 4.5: The Significant Contributions of the Quantity Surveyors tools in development planning.

| Factors  | 5  | 4 | 3 | 2 | 1 | F  | Fx  | Score | Rank |
|--|----|---|---|---|---|----|-----|-------|------|
| Project life cycle benefits                                    | 15 | 7 | 5 | 5 | 1 | 28 | 129 | 4.60  | 1    |
| Projects will be achieved on Time and to cost                  | 15 | 6 | 6 | 1 | - | 28 | 118 | 4.21  | 4    |
| The overall planning process will be faster and More efficient | 17 | 6 | 3 | 1 | - | 28 | 120 | 4.28  | 3    |
| Reduction in abandoned projects.                               | 20 | 5 | 1 | 1 | - | 28 | 126 | 4.50  | 2    |

Grand Mean = 4.34

From Table 4.3 above, all the identified contributions that can be made by the quantity surveyor are significant. Project life cycle benefits is ranked 1<sup>st</sup>; reduction in abandoned projects ranked 2<sup>nd</sup>:the overall Budget process will be faster and More efficient ranked 3<sup>rd</sup>; with corresponding mean scores of 4.60, 4.50, and 4.28respectively.

Table 4.6: Level of Involvement of the Quantity Surveyors in development planning

| Factors           | 5  | 4 | 3 | 2 | 1 | F  | Fx  | Score | Rank |
|-------------------|----|---|---|---|---|----|-----|-------|------|
| A.Construction    | 15 | 9 | 2 | 1 | 1 | 28 | 122 | 4.35  | 1    |
| projects          |    |   |   |   |   |    |     |       |      |
| B.Infrastructural | 16 | 5 | 5 | 1 | 1 | 28 | 118 | 4.21  | 2    |
| project.          |    |   |   |   |   |    |     |       |      |
| C.Developmental   | 10 | 5 | 5 | 1 | 7 | 28 | 94  | 3.35  | 3    |
| planning          |    |   |   |   |   |    |     |       |      |

Grand Mean = 3.97

Construction projects, Infrastructural project and Developmental planning are the significant areas identified by the study: The involvement of the Quantity surveyors' in Construction projects is ranked 1<sup>st</sup> with a mean score of 4.35. Infrastructural project ranked 2<sup>nd</sup> with a mean

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score of 4.21. The Quantity Surveyors' involvement in Developmental planning ranked 3<sup>rd</sup>,

with a mean score of 3.35. It therefore reveals that the quantity surveyors are engaged in

Construction projects while it also shows that quantity surveyors are involved less frequently

in Developmental planning. The Quantity surveyor should be engaged in these areas.

5.0 CONCLUSION AND RECOMMENDATIONS

This study has made an attempt to explain development cost and investment challenges in our

world. It also identified the contributions the Quantity Surveyor has to make. The Quantity

Surveyor has a big role to play because development planning process requires expertise whose

training can ensure effective planning and proper implementations of plans. To achieve a

project that yields future benefits it is highly recommended that the right techniques and

professionals are involved in development planning. This would improve the planning and

implementation process and consequently life cycle cost benefits would be derived from

project investments. The goals of achieving affordable housing and infrastructure for all can

be actualized when Quantity surveyors are involved more in Developmental planning. I would

recommend that the Quantity surveyor should be engaged in all areas of development planning

of construction projects.

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