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# DEVELOPMENT OF A PROJECT RISK MANAGEMENT FRAMEWORK A STUDY OF AFRICAN MAJOR ECONOMIES

*A Data Management Plan created using DMPonline*

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**Project abstract:**

ABSTRACT This research will study project risk management withing African major economies and then attempt to develop a project risk management framework. Existing literature of similar and relevant works will be examined that will address the aim and the objectives, and evolve to the development of well-structured questionnaire combined with interview that will aid collection of data on the topic which will now be analysed using appropriate tool(s) that will assist in arriving at the conclusion(s) and recommendation(s). The overall results will lead to the development of a framework that will assist in the development of the construction industry within major African economies, and should pave way for further re-orientation of practitioners within the built environment within the study area.

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## Manchester Data Management Outline

- Ethics
- Yes - Part of a collaboration and owning or handling data
- Re-use existing data (please list below)
- Acquire new data
- Generate textual supporting information only

If there are existing data related to the research such data will be used

- University of Manchester Data SafeHaven
- P Drive (postgraduate researchers and students only)
- University of Manchester Research Data Storage Service (Isilon)
- 1 - 8 TB
- Yes

Relevant professional organisations of Quantity surveyors, Architects, Engineers, Project managers and contractors and to be located in Nigeria, Ghana and South Africa.

- 11 - 20 years
- Personal information, including signed consent forms
- Pseudonymised personal data
- Audio and/or video recordings
- No sensitive or personal data

The personal information will include details about projects in terms of initial cost, final cost, types of risk causing variation, implications of such risk and how the risk can be controlled. without mentioning the names of the suppliers of such information because they will be coded

To be able to ensure the confidentiality of participants information, having effective processes and methodologies in place to maintain data integrity is essential.

- UK Data Protection Act will be complied with.
- Data will be collected using code that is known to the principal investigator alone so as to protect the person giving out the information
- The data will be adequately and securely protected.
- Good data protection management having effective processes and methodologies will be put in place to maintain data integrity.
- Collected data will be securely stored at the stipulated university domain
- Data will be wiped off at the stipulated period of safe keeping.

- Yes – Other
- No
- Not applicable
- Yes

Dr Obuks Ejohwomu

2020-09-07

## Project details

The broad aim of the study is to assess the risk impacts on the variability between contract sum and final account with a view to developing a framework that will assist the construction industry professionals to have a better prediction of the final account(actual project cost) from the contract sum.within African major economies,and how accurate construction cost estimate can be generated at the very early stage of construction.

The data collection and management will not contravene the data and information protection act,data on cost variability in the construction industry within African major economies will be considered, and should comply with:

- Research Data Management Policy
- Records Management Policy
- Data protection policy
- Intellectual property policy
- IT policies and guidelines
- All should comply with existing procedures and guidelines of the university complying with stated formal standards.

## Responsibilities and Resources

- My self as the PI
- My supervisor
- Designated data custodian

Acceptable and recognised resources which includes : storage costs, hardware, staff time, costs of preparing data for deposit and repository charges may be required and other stated cost of making use of the Universities facilities that may be stated as at when due.

## Data Collection

Data on causes and effects on construction cost variability caused by risk in construction within African major economies will be collected,while a framework for accurate cost estimation evolving from data analysis will be created

The data will be collected using ;

- Case study
- well structured questionnaire
- interviews and focused group discussion which may include audio recording with the consent of those to be interviewed asking open ended questions.
- The interview will be transcribed into word text
- Relevant peer reviewed data will also be used when available and appropriate.

Data on causes and effects of cost variability will be collected from stakeholders including but not limited to Clients,Quantity surveyors,Architects,Engineers,Project managers,contractors and relevant professional bodies having a role to play in project execution and delivery.The data will be analysed and severity determined which will assist the the development of the cost estimation framework.

- The analysis will be done using appropriate tools for standardisation
- Data will be securely stored after interpretation

## Documentation and Metadata

A documentation file submission will accompany each preliminary and final data set.

This will match the data set name

AUTHOR(S):

Name(s) of PI and all co-PIs

Complete mailing address, telephone/facsimile Nos.,

E-mail address of PIs, and WWW address (if applicable)

Similar contact information for data questions (if different from above)

#### 1.0 DATA SET OVERVIEW:

Introduction or abstract

Time period covered by the data

Physical location (including lat/lon/elev) of the measurement or platform

Data source if applicable (e.g. for operational data include agency)

Any World Wide Web address references (i.e. additional documentation such as Project WWW site)

#### 2.0 INSTRUMENT DESCRIPTION:

Brief text (i.e. 1-2 paragraphs) describing the instrument with references

Figures (or links), if applicable

Table of specifications (i.e. accuracy, precision, frequency, resolution, etc.)

#### 3.0 DATA COLLECTION AND PROCESSING:

Description of data collection

Description of derived parameters and processing techniques used

Description of quality control procedures

Data inter comparisons, if applicable

#### 4.0 DATA FORMAT:

Data file structure and file naming conventions (e.g. column delimited ASCII, NetCDF, GIF, JPEG, etc.)

Data format and layout (i.e. description of header/data records, sample records)

List of parameters with units, sampling intervals, frequency, range

Data version number and date

Description of flags, codes used in the data, and definitions (i.e. good, questionable, missing, estimated, etc.)

#### 5.0 DATA REMARKS:

PI's assessment of the data (i.e. disclaimers, instrument problems, quality issues, etc.)

Missing data periods

Software compatibility (i.e. list of existing software to view/manipulate the data)

## 6.0 REFERENCES:

List of documents cited in this data set description

Brief and simple analysis that will be clear to stakeholders will be used

## Ethics and Legal Compliance

- All issues relating to data collection and storage will be complied with ethically
- Data may be referred to departmental/Institution ethics committees
- Data storage to be in accordance with established regulations and norms
- All issues not conforming with ethics to be critically looked into

The copyright and intellectual property rights are the exclusive rights of the PI my self and the university. However *Research data* have a long-term value for *research* and academia, as well as taking into account other *research data* management physically present at the institution, *Intellectual property rights (IPR)* which are subject to the *University's Intellectual Property Policy*. If such data are to be re used without going against the regulation, consent will be sought from appropriate authorities.

## Storage and backup

Data will be stored and backed up using The University of Manchester's managed data storage solution, 'Research Data Storage' (RDS) which ensures data are securely stored, and backed up.

- Those to be interviewed will have codes known to the researcher alone for confidentiality
- Those to be interviewed will be informed that recording will be done but discarded after transcription and securely stored to RDS
- Data will not be stored on personal tools but that of the university.

## Selection and Preservation

- Collected and analysed data to be retained according to the universities regulations
- While the outcome that will lead to the development of frame work should be retained and preserved
  
- Anonymised data or questionnaires created for the research are to be preserved for a bit reasonable longer period.
- There may be the need to review and update such data sets

## Data Sharing

The outcome of the research in terms of the developed framework will be shared widely by uploading data to a publicly accessible data repository which makes it easy to easily link the publications to the data and then makes data more accessible and reusable.

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