



International Federation of Consulting Engineers
The Global Voice of Consulting Engineers

BIM Use Survey's Report



22. September 2017

Final

Prepared by YPFSC: Jomanah AlBtoush, Ahmed Stifi, Joseph Declan Nolan and Nguyen Nam Trung

Table of Contents

1. Introduction	1
2. Methodology.....	1
3. Timing.....	1
4. Surveys Questions and Outcomes:	1
4.1 In what country do you work?.....	2
4.2 What is your age?	3
4.3 Where are you working?	3
4.4 Please advise about your engineering speciality?	4
4.5 Do you use the BIM in your Work?	4
4.6 Please advise regarding the type of projects?.....	5
4.7 Please advise regarding the country where your project located in.....	6
4.8 Please advise regarding the reasons for using BIM?	6
4.9 Please advise regarding the BIM software type/ package/ level you are using?	7
4.10 Please advise regarding the benefit of using BIM?	8
4.11 Please advise regarding the challenges/ issues of using BIM?.....	8
4.12 Please advise if BIM training and resources are available in your country to improve your capacity in this filed? If not please advise about your need.....	9

1. Introduction

FIDIC Young Professionals Forum Steering Committee (YPFSC) and FIDIC Risk and Quality Committee (R&Q) have prepared a survey for the purpose of understanding the use of Building Information Modeling (BIM) in Engineering Industry. This purpose of this report is to summarize the outcomes of this survey.

2. Methodology

Short survey was prepared based multiple choices and open ended questions. The survey was published online through (Survey Monkey website) and was shared via FIDIC social media pages (Facebook, LinkedIn and Twitter) worldwide.



3. Timing

Survey was published on 8th of August 2017 till 20th of September 2017, this means one month period.

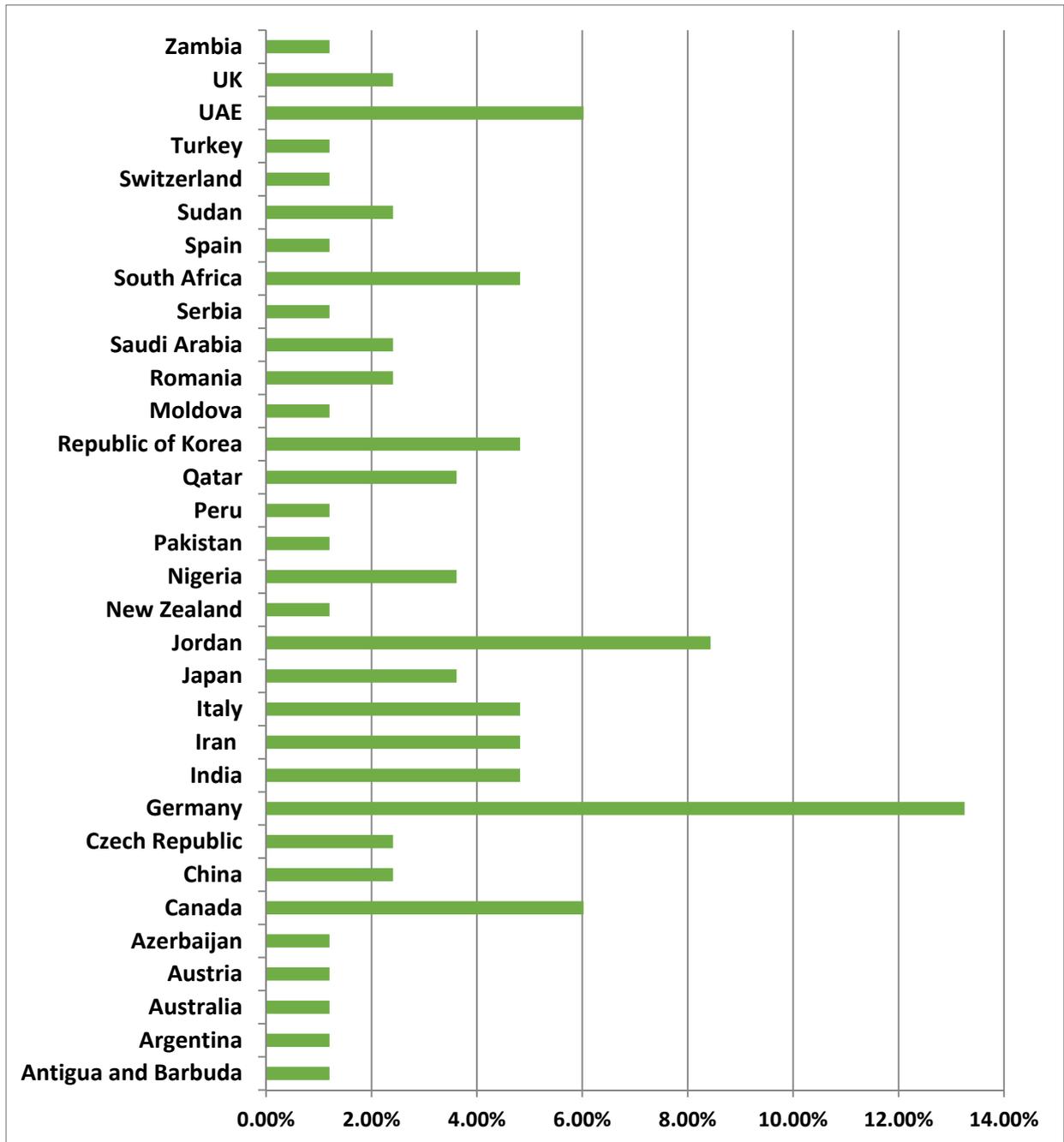
4. Surveys Questions and Outcomes:

The below subsections summarize the survey's 12 questions. Each question was provided with a color code that also used in the related responses analysis:

01	02	03	04
In what country do you work?	What is your age?	Where are you working?.	Please advise about your engineering specialty?
05	06	07	08
Do you use the BIM in your Work?	If your answer to the question 4.5 is "Yes", please advise regarding the type of projects?.	If your answer to question 4.5 above is "Yes", please advise regarding the country where your project located in.	If your answer to question 4.5 above is "Yes", please advise regarding the reasons for using BIM?
09	10	11	12
Please advise regarding the BIM software type/ package/ level you are using?	Please advise regarding the benefit of using BIM?	Please advise regarding the challenges/ issues of using BIM? .	Please advise if BIM training and resources are available in your country to improve your capacity in this filed? If not please advise about your need.

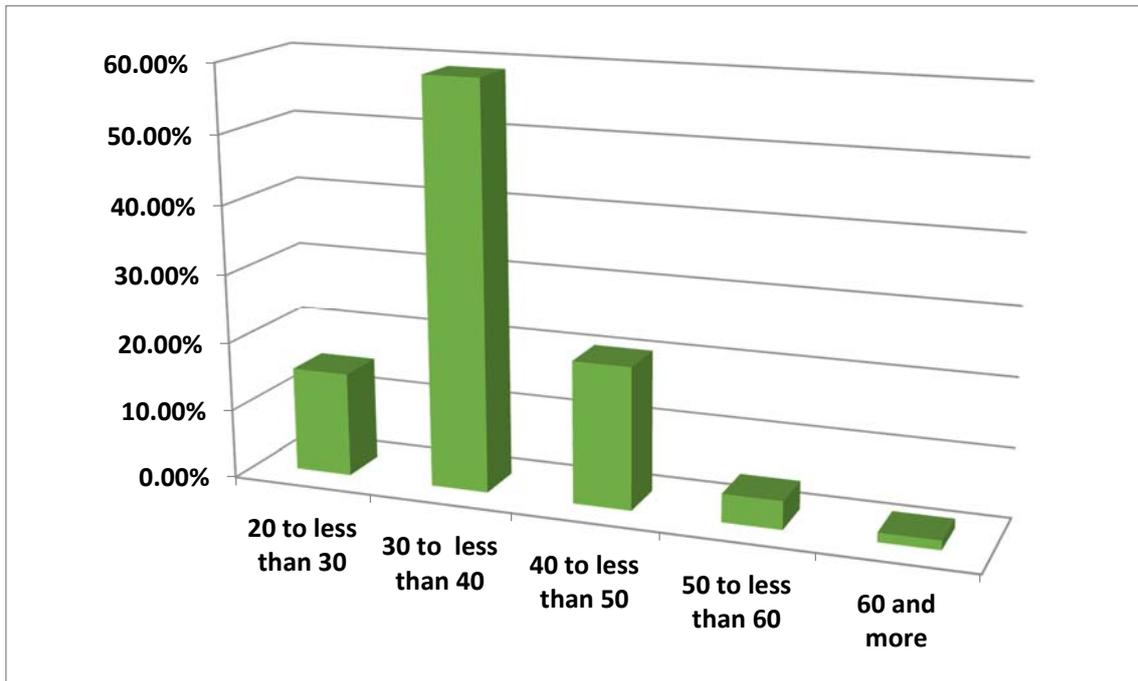
4.1 In what country do you work?

85 responses from 32 countries were collected as per the below chart:



4.2 What is your age?

Respondent's age distribution is as below:

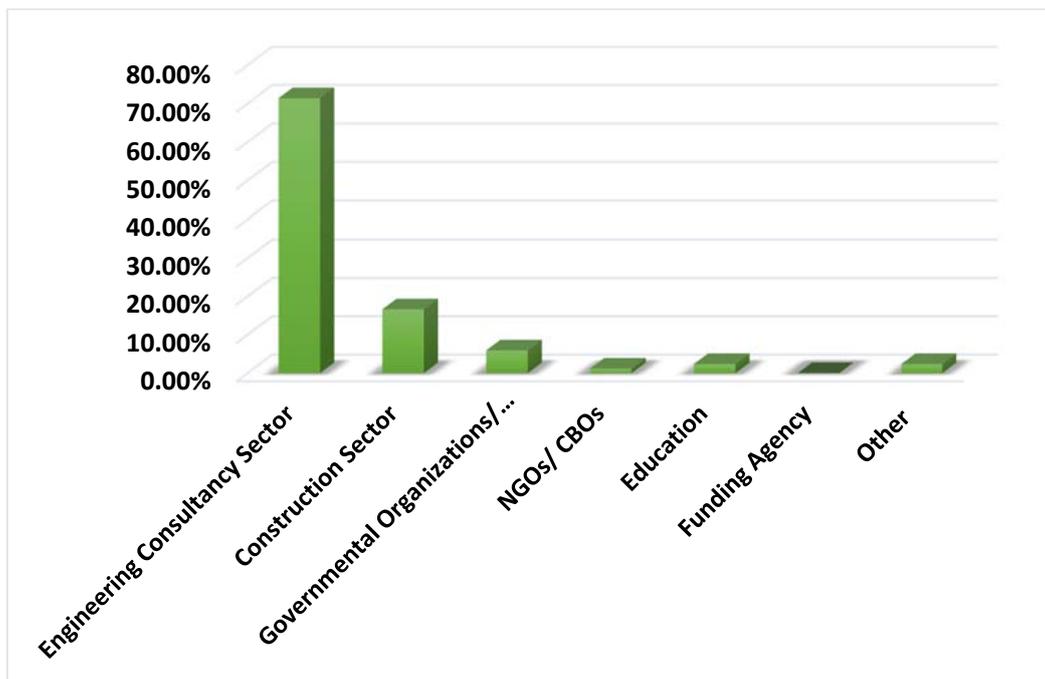


The majority of the population is young professionals (YPs) less than 40 years old (about 75%), this may be due to the below reasons:

- The survey was distributed via social media pages, the majority of the users are YPs
- BIM users are mainly YPs.

4.3 Where are you working?

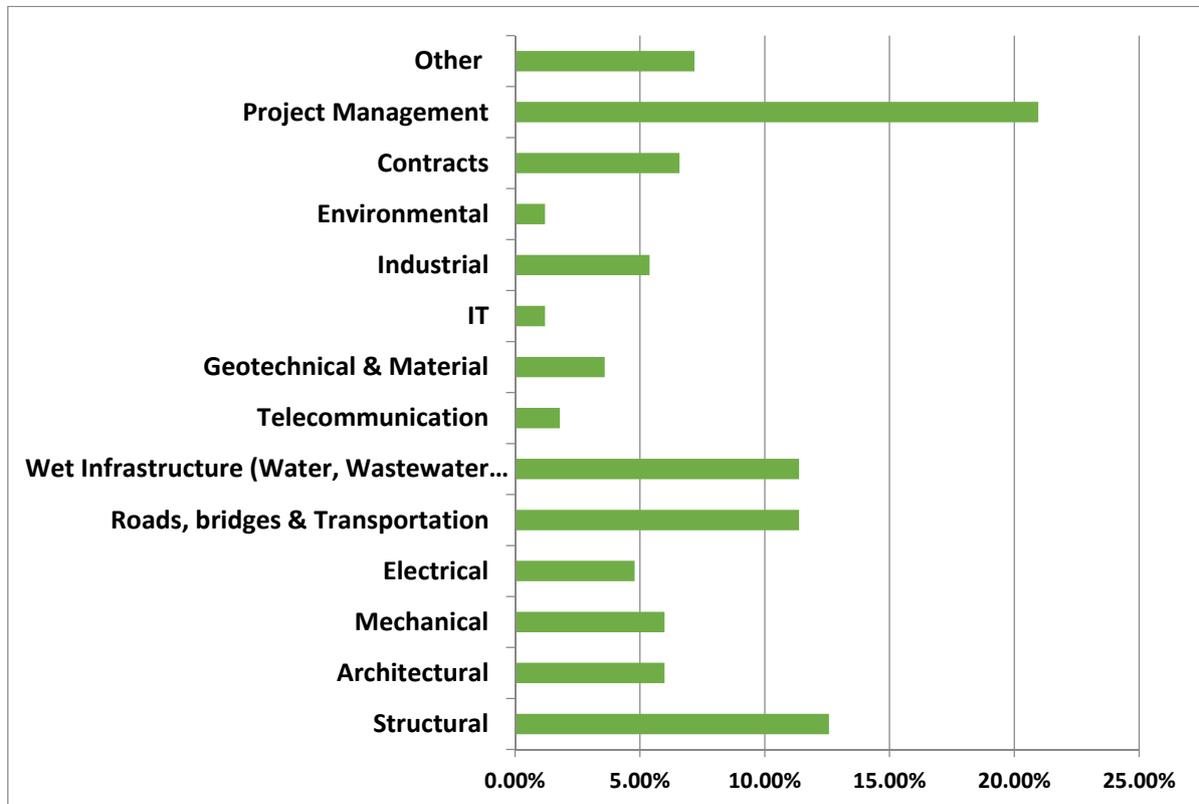
Respondants working areas are as below:



The majority is working in engineering consultancy sector with about 70% then followed by 17% from Construction sector.

4.4 Please advise about your engineering speciality?

Respondants engineering specialities are as below:

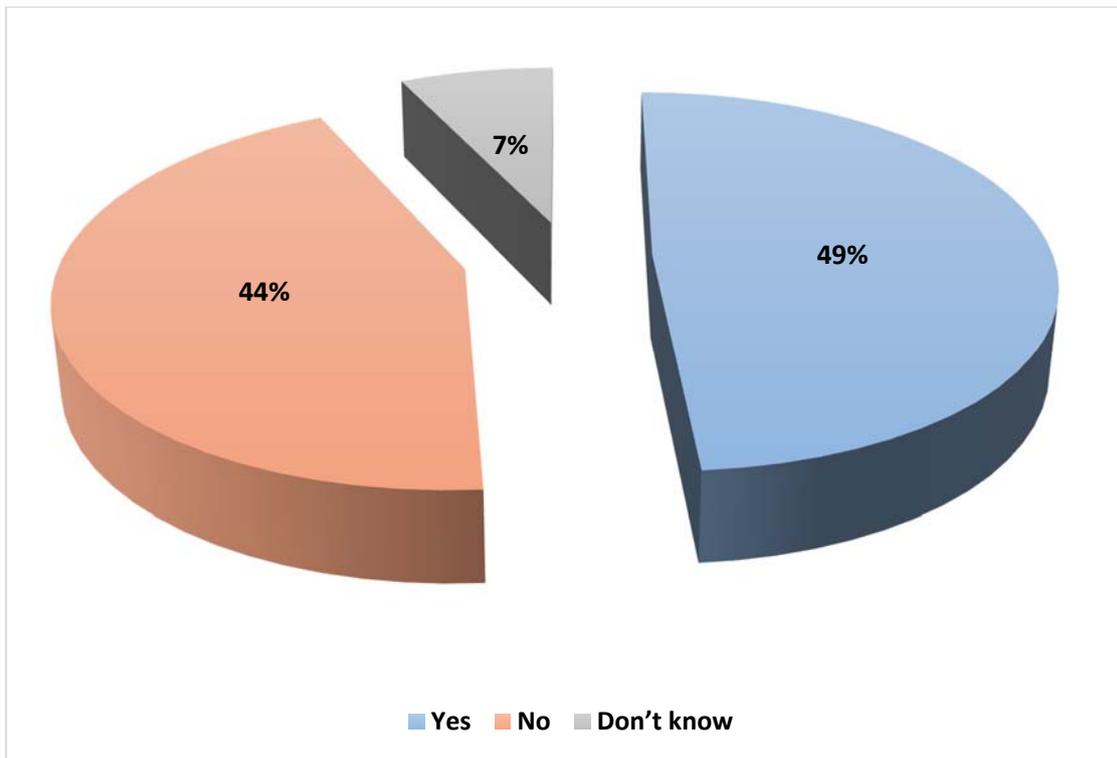


The highest engineering specialities in term of representation in this survey are:

- Project management with 21%,
- Structural with 13%
- Roads, bridges & transportation with 11%
- Wet Infructructure with 11%

4.5 Do you use the BIM in your Work?

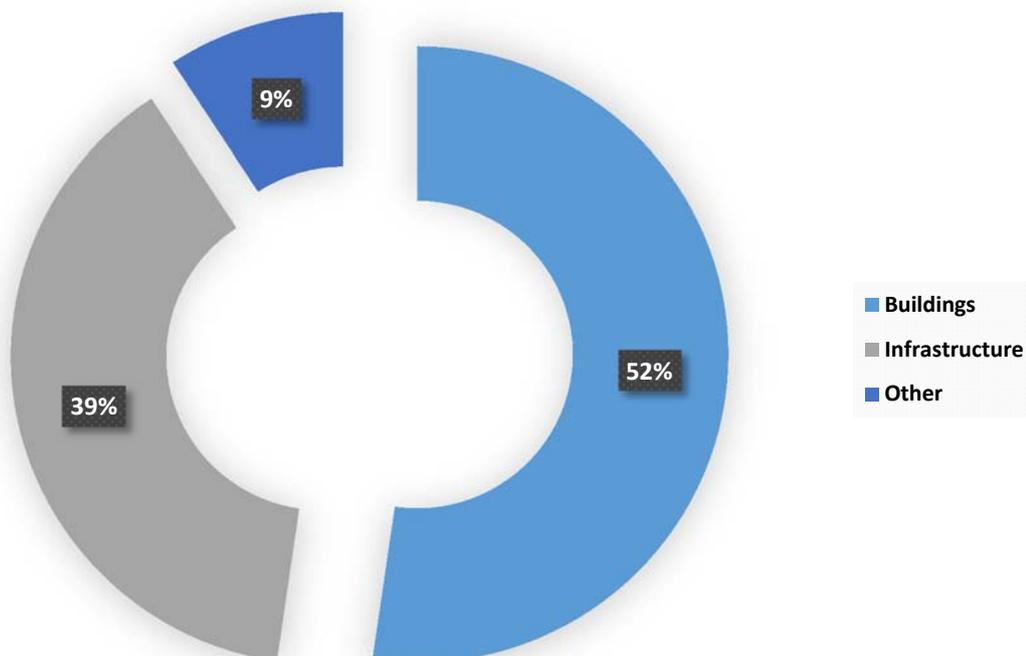
Respondants experince in using BIM are as below:



This means that the survey's population is somehow balanced in term of knowledge or not in BIM.

4.6 If your answer to the question 4.5 is "Yes", please advise regarding the type of projects?

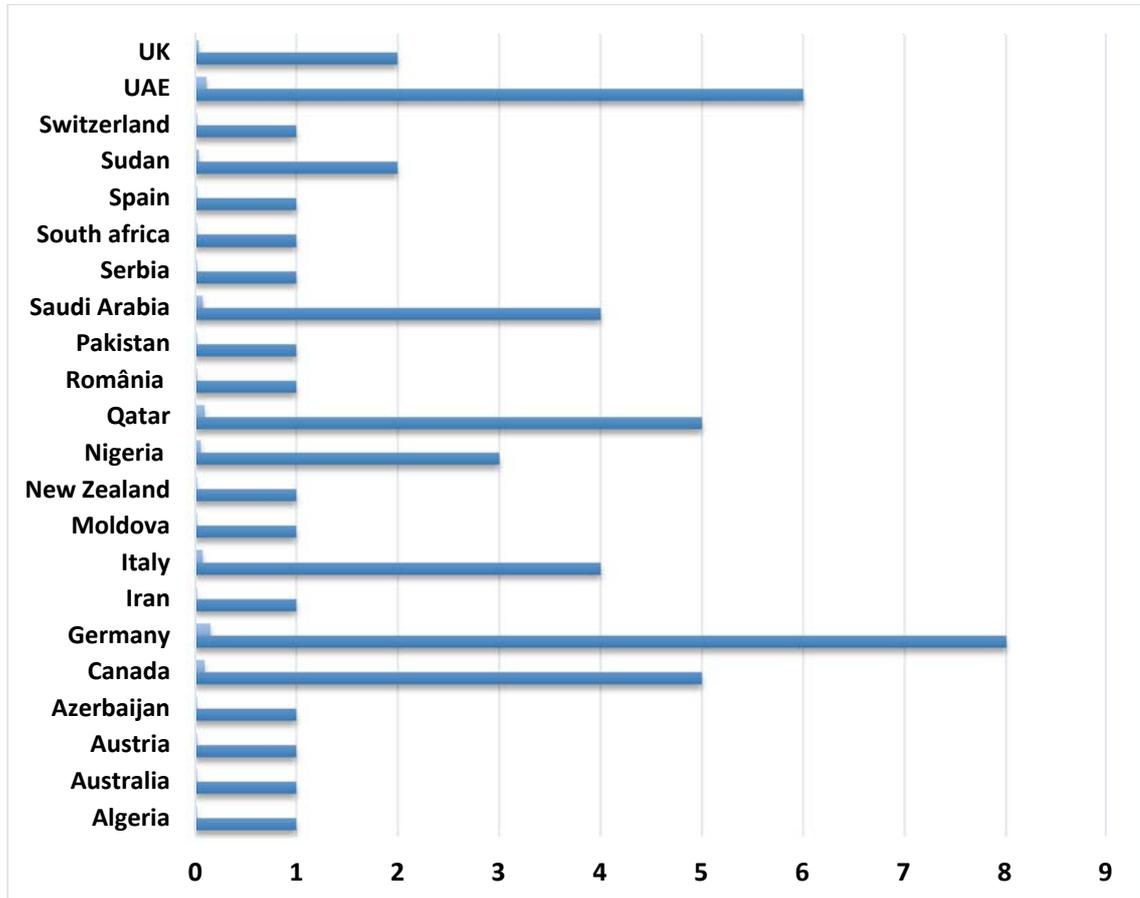
Respondants experince in using BIM are in the followings types of projects:



The majority of repondents work in buildings projects with 52%.

4.7 If your answer to question 4.5 above is “Yes”, please advise regarding the country where your project located in

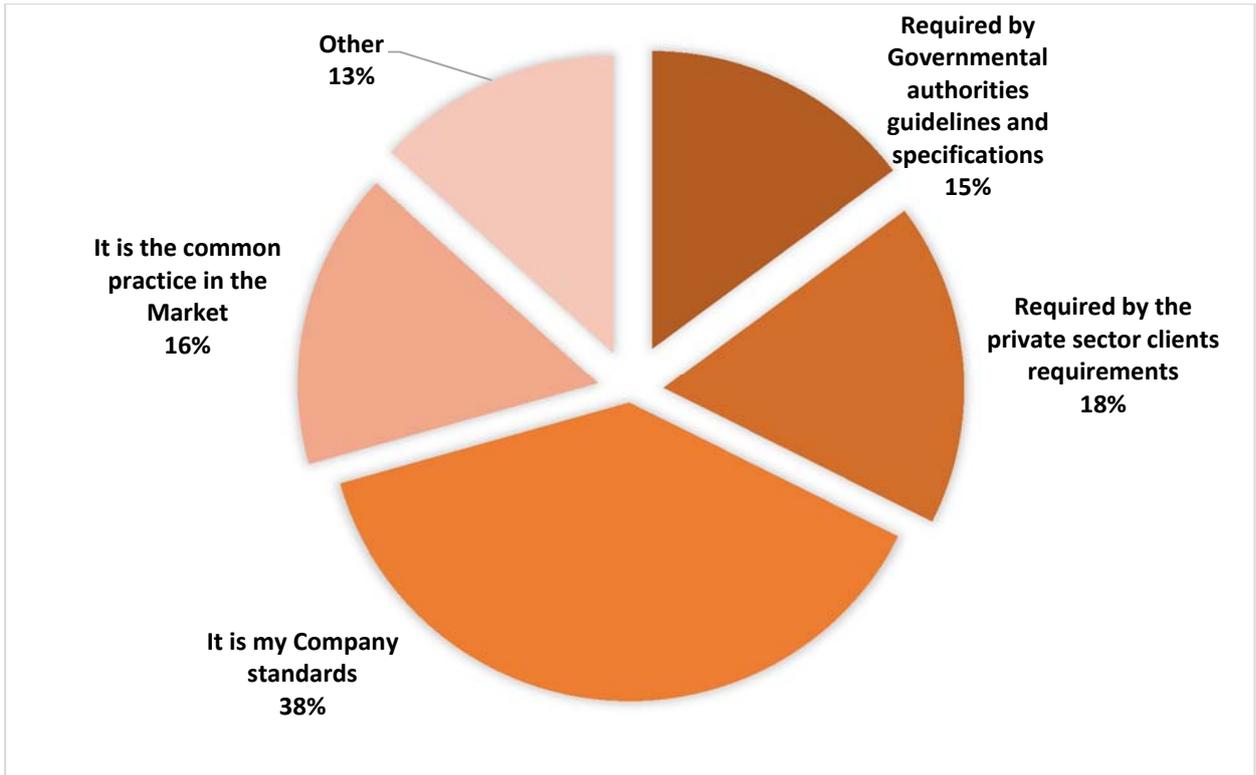
Respondants experince in using BIM are mainly in the followings countries:



It seems there is an extensive use of BIM in Gulf countries, Canada and Germany.

4.8 If your answer to question 4.5 above is “Yes”, please advise regarding the reasons for using BIM?

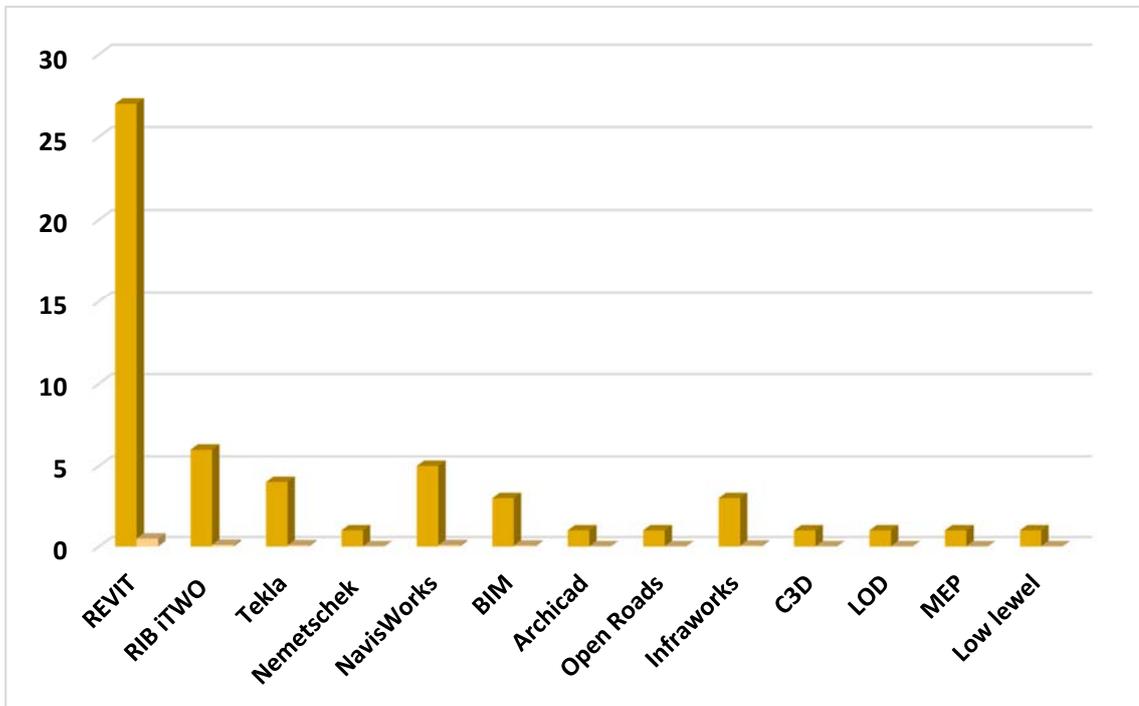
Summary for respondants answers regarding reasons for using BIM are below:



38% of the respondents use BIM due to “company standards” followed by using due to “Private sector requirements” with 18%

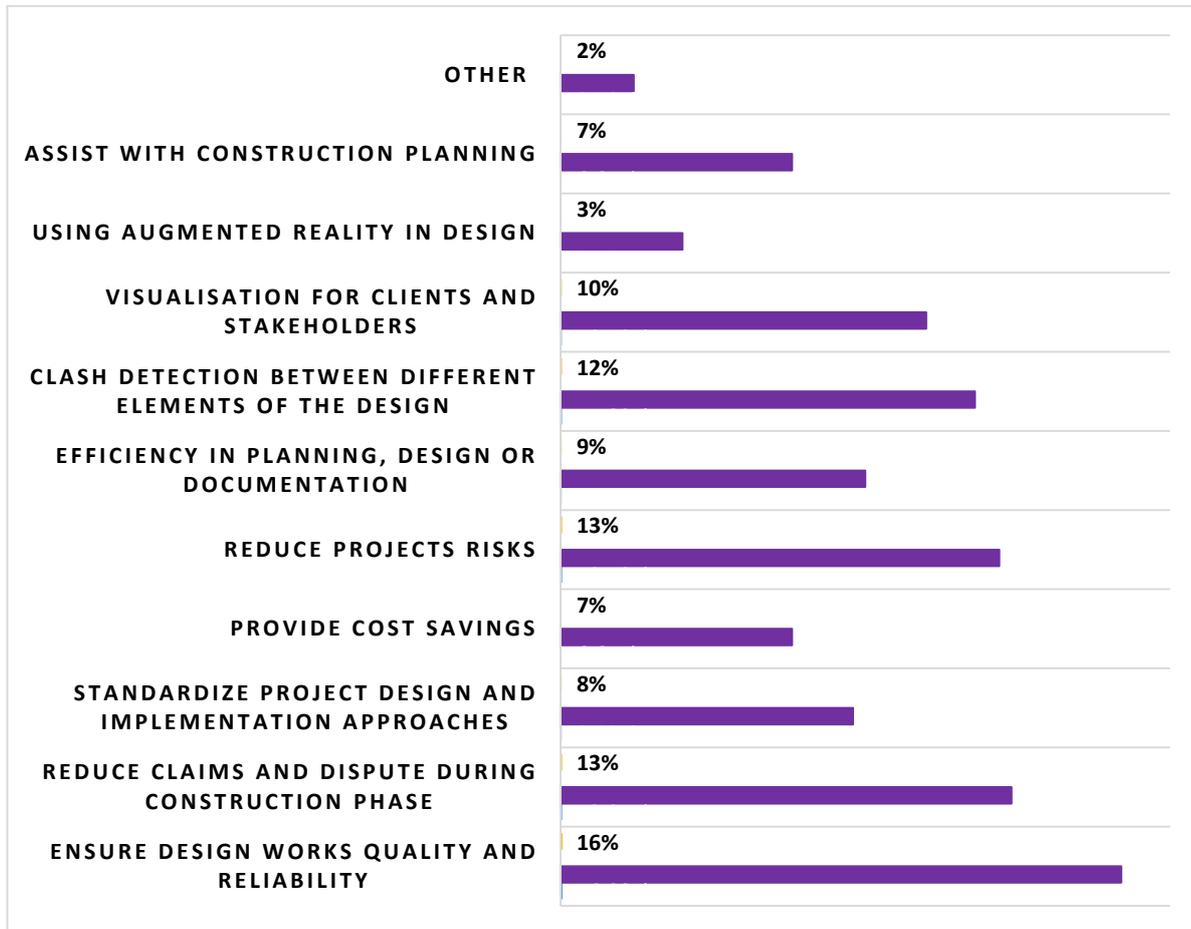
4.9 Please advise regarding the BIM software type/ package/ level you are using?

The below chart summarizes the respondents answers regarding the used BIM software’s, the majority is using REVIT:



4.10 Please advise regarding the benefit of using BIM?

Summary for respondents answers regarding the benefits of using BIM is presented below:

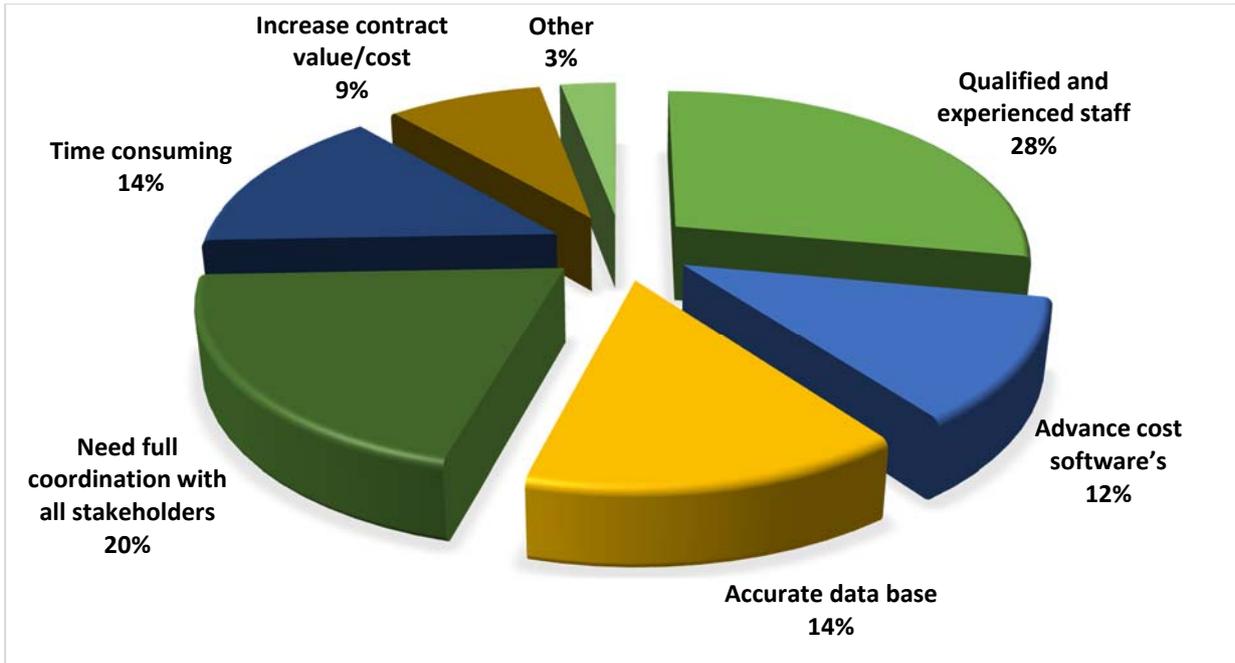


The majority of respondent's selected "ensure design works quality and reliability" as a main benefit of using BIM, in addition to add the below points:

- Time saving during design and construction
- Better linking construction and operation phases

4.11 Please advise regarding the challenges/ issues of using BIM?

Summary for respondents answers regarding the challenges / issued of using BIM is presented below:



The majority of respondent's selected "Qualified and Experienced Staff" as a main challenge of using BIM with 28% followed by "Need full coordination with all stakeholders" with 20%.

4.12 Please advise if BIM training and resources are available in your country to improve your capacity in this filed? If not please advise about your need.

