

Challenges of Building Information Modeling Implementation in Africa: A Case Study of the Nigerian Construction Industry

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Key words: Building Information Modeling (BIM), Challenges, Implementation, Nigeria, Construction Industry.

SUMMARY

This paper discusses the challenges of Building information modeling implementation in the Nigerian construction Industry. The need to innovatively integrate the construction process and address project development challenges has to do with the integration of building information modeling (BIM) in the building design and development cycles. However the adoption of BIM in the Nigerian construction Industry is not encouraging and its implementation is poor. Data were collated through a designed questionnaire by identifying the challenges affecting BIM implementation and the various approaches to overcoming BIM challenges in the Nigerian construction industry. Data were analyzed and ranked using Relative Importance Index (RII), simple percentages, pie charts and bar chart. Research findings indicate that lack of BIM education with an RII value of 0.79 and lack of information on BIM with an RII value of 0.76 are very significant challenges of BIM implementation in the Nigerian construction Industry. It also reveals that Increase research for BIM technology in Institutions of Higher learning with RII of 0.78, Conduct BIM skills development programmes with RII values of 0.76 are very significant approaches to overcoming the challenges of BIM implementation in Nigeria. The study suggests that BIM education should be a priority and information on BIM should be made available in the Nigerian construction industry.

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