

The Challenges of Implementing Building Information Modeling in Small-Medium Enterprises Architecture Firms in Indonesia

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Abstract : Around 96% of architecture firms in Indonesia are classified as small-medium enterprises (SME). This number shows that the SME firms have an important role in architecture, engineering, and construction (AEC) industry in Indonesia. Some of them are still using conventional system (2D based) in arranging construction project documents. This system is fragmented and not fully well-coordinated, so causes many changes in the whole project cycle. Building information modeling (BIM), as a new developed system in Indonesian construction industry, has been assumed can decrease changes in the project. But BIM has not fully implemented in Indonesian AEC industry, especially in SME architecture firms. This article identifies the challenges of implementing BIM in SME architecture firms in Indonesia. Quantitative-explorative research with questionnaire was chosen to achieve the goal of this article. The scarcity of skilled BIM user, low demand from client, high investment cost, and the unwillingness of the firm to switch into BIM were found as the result of this paper.

Keywords : architecture consultants, BIM, SME, Indonesia

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