LEVEL OF AWARENESS TOWARDS BUILDING INFORMATION MODELLING (BIM) AMONG QUANTITY SURVEYORS IN MALAYSIA

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ABSTRACT

Building Information Modelling (BIM) is an nD model platform that function as a database of building design information which allows BIM to serve as an information centre about a project, such as project management, operations and maintenance. BIM is able to help Quantity Surveyors (QS) to reduce arithmetic errors and reduce working time such as taking off, tendering and others. Infrastructure Asia (IA) is an Asia's premier forum which had organised a few numbers of BIM seminars in Malaysia, namely BIM and Sustainable Architecture (BIMARC), but there is no statistic regarding the application and implementation of BIM among the construction players in the country. Thus this research is carried out with the objective to determine the level of awareness towards the technology of BIM among Quantity Surveyors in Malaysia. This research utilised quantitative research methodology where likert-scale questionnaires were distributed among Registered QS. The questionnaire was divided into the awareness of BIM at the pre-contract stage, post contract stage and QS tasks with the incorporation of BIM. Data was then analysed using SPSS 17.00 to determine the mean and the level of awareness. It was found that the overall mean at pre-contract is 2.36 and post-contract is 2.40. The results showed that the level of awareness towards the technology of BIM among QS in Malaysia is relatively low even in pre-contract or post-contract stages. BIM is a good opportunity in improving the quality of QS work, thus more seminar or road shows should be carried out to increase the QS awareness towards BIM. Institution of Surveyors Malaysia (ISM) can also put in more articles about BIM and brochures about the seminars and road shows in The Malaysian Surveyors magazine.

ABSTRAK

Building Information Modeling (BIM) merupakan satu tapak nD model yang berfungsi sebagai pusat informasi projek pembangunan yang merangkumi pengurusan projek, operasi dan penyelenggaraan. Penggunaan BIM dapat membantu Juruukur Bahan untuk mengurangkan kesalahan hitungan dan menjimatkan masa membuat taking-off, menender and lain-lain. Infrastructure Asia (IA) merupakan forum yang penting di Asia telah menganjurkan beberapa seminar BIM di Malaysia, antaranya BIM and Sustainable Architecture (BIMARC). Walaubagaimanapun, dalam industri pembinaan di Malaysia tidak mempunyai apa-apa rekod statistik tentang penggunaan dan pelaksanaan BIM. Dengan itu, kajian ini dijalankan dengan objektif untuk menentukan tahap kesedaran terhadap teknologi BIM di kalangan QS di Malaysia. Kajian ini menggunakan methodologi penyelidikan kuantitatif di mana soal selidik jenis skala likert telah diagihkan kepada Juruukur Bahan Berdaftar. Soal selidik ini dibahagikan kepada tahap kesedaran BIM di pra-kontrak, pos-kontrak dan kerja QS dengan penggunaan BIM. Data yang dikumpul telah dianalisakan dengan menggunakan SPSS 17.00 untuk menentukan tahap kesedaran. Didapati bahawa min keseluruhan bagi pra-kontrak adalah 2.36 dan pos-kontrak adalah 2.40. Keputusan kajian menunjukkan bahawa tahap kesedaran terhadap teknologi BIM di kalangan QS di Malaysia adalah agak rendah walaupun di pra-kontrak atau pos-kontrak. Penggunaan BIM merupakan satu peluang untuk penambahbaikkan kualiti kerja QS, jadi kerajaan haruslah menganjurkan lebih banyak seminar mengenai BIM. Institution of Surveyors Malaysia (ISM) juga boleh memaparkan rencana dan risalah tentang seminar BIM di majalah The Malaysian Surveyors.