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Jyh-Bin Yang, Hung-Yu Chou



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Title:

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Authors:

Jyh-Bin Yang*

Professor, Graduate Institute of Construction Engineering & Management, National Central University, jyhbin@ncu.edu.tw

Hung-Yu Chou

Ph.D. Candidate, Graduate Institute of Construction Engineering & Management, National Central University, harychou@ncu.edu.tw

* **Corresponding author at:** Graduate Institute of Construction Engineering & Management, National Central University; Add: No. 300, Zhongda Rd., Zhongli District, Taoyuan City 32001, Taiwan; Tel: +886 3 4227151 ext. 34040; Fax: +886 3 4257092; E-mail: jyhbin@ncu.edu.tw

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Abstract

Building Information Modeling (BIM) technology has been rapidly adopted in the global architecture, engineering, and construction (AEC) and facility management (FM) industries. Two major approaches, government- and industry-driven, are commonly identified for making BIM applications more widely available in different countries. However, those approaches are not suitable for all countries that plan to implement BIM. It is necessary to find other approaches to benchmarking. Based on two surveys, this paper discusses the status of BIM applications from government sectors in Taiwan to identify the drivers of BIM applications. The lessons learned from this study are also summarized for reference. The case of Taiwan represents a mixed approach that is suitable for most countries without strong government influence on BIM implementation.

KEYWORDS: Case study; mixed approach; Taiwan; government policy; Building Information Modeling.

1. Introduction

Building Information Modeling (BIM) technology has attracted a great deal of attention in the architecture, engineering and construction (AEC) and facility management (FM) industries. Over the past several years, there have been many quick and positive changes related to the use and implementation of BIM in practice [1]. Many countries have successful BIM implementation strategies and have received obvious benefits [2]. For a country, it is difficult but necessary to face the significant impact of BIM-related technologies. Clearly, implementing BIM technology to make advancements in the AEC/FM industries has been accepted by most countries in the world. According to a global review of BIM adoption and implementation, a previous study concluded that many approaches and technology adoptions have been proposed to support the implementation of BIM, but a practical mechanism for adopting and implementing BIM is still lacking [1]. Previous studies mainly discussed the actual implementation in different countries or areas, but rarely focused on exploring the rationale behind the implementation, which is fundamental for developing a new approach for adoption. There is a need to identify BIM implementation approaches for benchmarking. Therefore, this study targets the pattern of government BIM implementation policy by reviewing available implementation approaches and related measures and key features.

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