UNIVERSITI TEKNOLOGI MARA

THE READINESS IMPLEMENTATION OF BUILDING INFORMATION MODELLING (BIM) IN LOCAL AUTHORITY AT PERAK

MUHAMMAD ILHAM BIN MOHD SHOFI

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ABSTRACT

Errors and reworks are common in this area due to the various phases of the building industry and its complex and comprehensive structure. As a result, BIM (Building Information Modelling) is recognised as a useful tool for reducing restrictions and increasing building efficiency. The goal of this research is to assess and analyse the readiness of the Perak Local Authority for Building Information Modelling (BIM). The three objectives that were utilised to support the research were to establish the factor, impact the use of BIM in their respective Local Authorities, and investigate the obstacles on adopting Building Information Modelling (BIM) in Local Authorities in Perak. Between 2011 and 2021, literature research was done on adoption. It covered the concept, history, planning, and execution methods, as well as the benefits of using BIM in the construction industry. The research was conducted using the indirect observation technique on three selected District Councils in Perak, and a questionnaire survey was given to 30 respondents from the importance of BIM for architects, engineers, and the construction business. The information gathered through the questionnaire survey. The findings of the observation suggest that most local governments are limited in their ability to offer enough ICT for BIM software. In other words, this study indicates that local governments must enhance their technology and provide adequate ICT for BIM software users.

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CHAPTER ONE
INTRODUCTION

1.1 RESEARCH BACKGROUND

In the Malaysian political structure, there are three main hierarchical levels: Federal Government; State Government; and Local Government (Local Authority). While in the hierarchy of government, local authorities are the smallest, they are very close to the population. Therefore, as a socially beneficial goal, local authorities need to be able to control their financial situation efficiently and continually improve their financial efficiency. Effective financial management is the cornerstone of the success of the financial management system. Management and the accuracy and reliability of the financial statement of the company It is important for local authorities to try to make accurate predictions of their surrounding cultures and the path in which they should progress. The local authority must also correctly assess which initiatives would or would not contribute to development and the promotion and the well of the society.

BIM is the best method for simulating a building project in a simulated world. When we are using a software kit, this simulation will have the advantage of taking place on a computer. Those virtual errors typically do not have severe subsequences, given that they are detected and indicated early enough to be prevented "in the field". While a design is practically designed and carried out, most important components must be taken into consideration, decided, and addressed as often as necessary until the construction message orders are completed. In the field of building design, the use of computer models is groundbreaking. A few industry manufacturers have been exercising computational tools quite exquisitely to most years since. In addition, several construction firms have successfully used similar approaches in construction projects, while fault finders argue that analyses can only benefit from repetitive industrial processes, and that construction is exclusive by implication.

Readiness meaning is to the point where one has developed enough to benefit from the learning experience, such as readiness to adapt something new technology in