

## Article

# Civil Engineering Standard Measurement Method Adoption Using a Structural Equation Modelling Approach

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**Abstract:** The adoption of a standardized technique of measuring in civil construction projects is influenced both by the drivers and the strategies used, particularly in emerging nations such as Malaysia. So, the authors of this study used structural equation modeling and the PLS-SEM technique to inquire into the connection between the driver and strategy elements of the adoption. Quantity surveyors at quantity surveying consultancy companies using the standard measurement technique were polled using a questionnaire. Using the PLS-SEM technique provided by the SmartPLS 3 software, a hierarchical model was created to determine the components and their impacts on the adoption of the measuring method. The results indicated that all classes considerably influence the adoption of the standard technique of assessment, but the barrier factors had the most impact. The adoption of a standardized technique of measuring was significantly impacted by the driver and strategy elements. The coefficient of determination (R-squared value) of 0.400 indicates that the dependent variable(s) can be explained by the predictor variable(s) in the model. Moreover, Q<sup>2</sup> is significantly different from zero, suggesting that endogenous latent components may be predicted by the conceptual model. Because of its high explanatory power, the created model has given a goodness-of-fit (GoF) index of 0.214. This means that the model adequately represents the link between the variables that affect measuring technique adoption and the effects of these factors. The first stage in determining what motivates people to utilize the most up-to-date standardized measurement approach in civil engineering construction projects is to develop a research model of the variables and to explain the connection between the driver and strategy factors on standard adoption.

**Keywords:** standard measurement method; drivers; strategies; construction projects; structural equation modeling; PLS-SEM



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## 1. Introduction

The construction sector is recognized as one of Malaysia's key economic sectors that generate economic growth, along with agriculture, mining, manufacturing and services. Quarterly construction statistics [1] show that Malaysia's construction sector shrank by 14.2% in the fourth quarter of 2020. The value of the construction work carried out reaches RMB 31.7 billion. The value of construction works in 2020 shrank by 19.4% to RMB 117.9 billion compared to RMB 146.4 billion in 2019. Other subsectors, such as civil engineering and residential and non-residential buildings, declined, while specialty trade activity surged at 29.3%. However, since the fourth quarter of 2015, the civil engineering subsector has maintained its dominance in the value of construction works performed with a 39.6% share for the 21st consecutive quarter. Statistics show that civil works are essential in supporting economic growth, as efficient infrastructure is the backbone of economic development.

Standard measurement technique is a document that provides the foundation for measuring building and civil engineering works, as defined by the Royal Institute of

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