

# Efficiency Assessment of Road Project Delivery Models

羅仕京, 趙瑀

Transportation Technology and Logistics Management

Management

sclo@aa.nctu.edu.tw

## Abstract

In this study, four road delivery project models are analyzed by data envelopment analysis. The four models are design-bid-build (DBB), design-build (DB), construction management (CM) and design-build-maintenance (DBM). According to the analysis, DBM is the most efficient model and CM has the best time-scheduled control. DB performs the best efficient in construction. The results may provide public sectors to employ an adequate model to proceed road construction project.

Keyword : Road delivery project, design-bid-build, design-build, construction management, design-build-maintenance, data envelopment analysis, performance evaluation.