

# 結合RFID應用於建築工地材料管理系統之研究

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## 摘要

During the process of a construction project, the demand for construction material always depends upon the schedule planning. The neglect of resources factor often leads to problems of capital dispatching and late material supply. In a construction site, the utilization of RFID can improve the original management model and allow material type, quantity, and inventory can be obtained correctly and integrated into the management system, so that engineers can correctly monitor material information of the construction site and the efficiency of construction can be improved. 民國營建工程學會第三屆第一次年會 第七屆營建工程永續發展研討會 67-2

In this study, existing construction materials of the site were collected and the upstream suppliers were informed to deliver the materials according to the lead time. When the wagon came, this system would import the inventory automatically based on the information read by RFID Reader. When workers took the materials to install on site, the integration of the material requisite form and the material return form allows people to manage and control the information of construction material precisely. The system developed in this study can assist manufacturers to grasp the

timing of placing

order, facilitate the proceeding of the construction, reduce the cost of inventory, avoid

work being held up for lack of material, and reduce the pressure of capital dispatching.

關鍵字：Database, ER Model, RFID System, Construction Material Management