

# 公共工程綠林回饋評估機制之研究

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## 摘要

The disappearance of green forest and trees has become a serious concern resulting from the massive consumption of wood dating back the railroad construction during the Japanese colonial times to the Ten Major Infrastructure decades ago and substantial wood products exported worldwide. Furthermore, since 1983, the Government has decided to release previously designated construction land that continue worsening the disappearance of green forests and seriously damage natural ecological environment. The Government has initiated a wide range of public construction projects. Although such projects can benefit citizen's livelihood, they, simultaneously, can damage preservation of trees and cause fast disappearance of green forests. In assessing current systems in public engineering, policies in greening, and public awareness of sustaining trees and forests, it appears that the Government needs to consider making greening feedback a mandate in public engineering. By undertaking a survey questionnaire and statistical analysis, this research confirms that greening feedback as a research focus can help raise the awareness of the general public towards this important environmental issue.

This research applies functional decomposition and simulation analysis design to identify greening factors and assessment criteria, investigates simulated budgetary design to rebuild trees and forests, categorizes greening areas based on property characteristics, and evaluates budgetary needs for greening construction. These proposed action plans should help the Government to incorporate greening budgets in construction planning during initial operations of planning. that can help restore and rebuild diminishing forests to achieve the goals of sustainability and survival of humankind and nature. Select seven case studies, from simple to complicated, to help facilitate the planning and budgeting of greening

feedback in public constructions. Each case study will display pictures taken from each site; evaluate each simulated area based on the categories of grass, flowers, and trees; and describe assessment methods and associated elements、structure and implementation.

關鍵字：Greening Feedback, Functional Decomposition, Simulation Design, Budgetary Assessment.