

# 新竹縣海岸土地利用發展潛勢分析之研究

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## 摘要

Taiwan is surrounded by seas with diverse and complex coastal environment, which is an important ecological place as well as a buffer zone between land and seas. In recent years as the economic industrial structures and social needs change the demand for land has increased significantly, adding pressure to the coastal area development. However, coastal areas are highly sensitive and vulnerable, the development and utilization of coastal areas should be considered in the light of the establishment of sustainable social and economic development perspective. Within environmental tolerance limits, consideration shall be put on coexisting of environmental and socio-economic development, effective use and management of coastal areas in accordance with coastal area use and management plans to ensure its sustainable life. So the coastal area land development should be conducted through integrative coastal management tools with appropriate spatial planning to achieve the optimal land development and utilization.

The study is aimed at Hsinchu County Jhubei and Hsinfong coast, and establishes the appropriate evaluation model through data analysis, utilization of current coastal peripheral land use potential indicator, paired comparison, consolidating expert opinions. Then, the results are presented by the spatial analysis module of geographic information system. On one hand, the results are used to set up Hsinchu County coastal area database; on the other hand, establish evaluation index and assessment model, in seeking the relationship between the index and land use and obtaining coastal land use and development potential and integrated coastal area spatial information to serve as references for Hsinchu County government in future land use planning.

關鍵字：coast, geographic information system, land use, development potential, development restrictions