

# **GEOGRAPHICAL INFORMATION SYSTEM FOR SUSTAINABLE DEVELOPMENT OF CONSTRUCTION PROJECT IN HOIAN, VIETNAM**

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## **ABSTRACT**

*Geographical information system (GIS) is widely used to support decision making process. The spatial information which is provided and analyzed using GIS is useful for the planners to make their decision. Further than the simple information provided by topological maps and surveying, GIS enables the other kinds of information that can only be obtained with the spatial analysis tools. In this research, a GIS spatial database is designed for a sustainable construction planning project in Cam an, Hoi an, Vietnam. The project designers desire to have a resort which harmonizes with local community. In this project, the resident area of a fishing village nearby the resort will not be removed but redesigned and developed to create a peaceful and cultural environment. For this purpose, the GIS is used to assist the project design and several spatial analysis tools are used to obtain the necessary information.*