

Abstract

The main objective of this assignment was to present the mechanism to activate the Maintenance Department ownership of the Digital GIS Based Master Plan currently available at CRP Department. The assignment involves assessment of the current maps, drawings and other data available with the Projects Department and its support Data Sources and divisions. It also involves recommendation of software, hardware and manpower for running the proposed GIS unit at Maintenance Department.

It is shown that the GIS data available would serve as the foundation for the development of more comprehensive data required for day to day activities. Currently ongoing projects are not updated on the Master plan with the As Is drawings. This ownership of the data would help them in taking control of physical features and updating projects onto the campus land use map. This would also enable the university service departments to access all data bases and queries of spatial nature about KFUPM campus digitally and KFUPM management can exercise physical control on its land assets and development at any given point in time.

We have recommended establishing a new GIS unit in the Maintenance Department to serve as main provider of maps and information for the daily activities of all service departments at KFUPM including Projects and Maintenance Departments. It is hoped that once the GIS unit is established in the Maintenance Department, various applications suited to their daily needs could be developed in house. We recommend hiring three staff persons including one Surveyor, one Draftsman and one GIS Analyst initially to run the proposed unit. A detailed HR plan proposal will be developed later to include all the necessary staff to run a successful GIS unit.