

3D Spatial Data Processing System in Lands Department, Hong Kong SAR Government

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SUMMARY

Architects, Engineers, Town Planners and Environmentalists need to visualize the spatial data in virtual reality for various applications. These professions have constructed many successful project-wise 3D models in the past years. However, these models are not integrated as a whole and not shared among government departments effectively.

With the advance development of visualization technology and computer processing power, it is promising to build a territory wide 3D model of Hong Kong. Lands Department therefore has started a project to set up 3D Spatial Data Processing System (3D SDPS) starting from May 2006 and build the basic 3D models for the whole territories. The project will fill the gaps in current situation and pave a way to further development of 3D Mapping and 3D GIS in Hong Kong. This paper describes the major objectives of the project, the architecture of the 3D SDPS, the components of basic 3D models, various value-added applications using these basic 3D models and future development areas on the basic 3D models.

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