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Disaster Preparation and Response in the Cayman Islands: A GIS perspective

ABSTRACT

The Cayman Islands GIS is centered on the functions of land records management. However, one of the most important ongoing initiatives at government level requires the GIS architecture to be flexible in order to provide support to the activities of the National Emergency Management Agency (NEMA).

The Cayman Islands Government via the Lands & Survey Department has implemented the TAOS storm modeling system. The GIS, its data assets and the model outputs are utilized in association with a comprehensive critical infrastructure database to provide a hazard/loss analysis for given storm scenarios. The leveraging of the GIS for disaster preparation, assessment, mitigation and response; along with the incorporation of high resolution aerial photography, 3D and temporal visualizations, further enhance the facilities available to emergency managers.

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