

Enterprise GIS for Integrated Decision Making

Durmus Cesur¹

San Antonio River Authority, San Antonio, TX 78229

Abstract. The use of Enterprise Geographic Information Systems (eGIS) as a framework to manage water resources modeling information and to facilitate decision making and workflow management relying on the information is explained in the paper. Regional Watershed Management System (RWMS) was developed for San Antonio River Authority for hydrologic and hydraulic modeling information management and distribution. The RWMS will facilitate decision making related to floodplain management, environmental protection and other watershed related issues by serving current, reliable, standardized modeling information together with associated documentation to the engineering community and area organizations in a cost efficient and timely manner through the use of enterprise GIS-based framework and web portal technologies. The RWMS will become a vital tool for flood mitigation planning, flood plain management, flood alert, flood warning systems, and capital improvement project prioritization when in operation.

The RWMS would be extensible to incorporate various other modeling systems, topographic data, supplementary system administration tools, end-user visualization and GIS functionalities, and will evolve into a holistic enterprise decision support and workflow management system for watershed management on a GIS platform.

¹Watershed Management/GIS
San Antonio River Authority,
San Antonio, TX 78229
Tel: (210) 302-4248
E-mail: dcesur@sara-tx.org