Abstract

Capital Improvements Planning Tools for the Navy Using ArcGIS
Track: Defense and Intelligence
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The Navy Public Works Center, Yokosuka, Japan, wanted to make use of its well developed GIS database in combination with its planning and design process for new facilities. To do this the author reviewed both the workflow process used for creating the CAD drawings of proposed facilities and the planning process that determined whether a facility actually got built. An ArcGIS extension was developed that incorporates these workflows. A user can select any project or set of projects via date, project name, or status. The related CAD layers are drawn in the Map View. This allows the planners to interactively visualize their facility based on a variety of inputs. Additionally, a scenario builder/analyst component allows the planners to identify conditions between multiple projects. For instance, one building may not be able to be built unless a demolition occurs first. A planner can now easily evaluate what the impacts are to all related projects when funding for any project is not approved.

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