Abstract

Generalization With ArcGIS
Track: Cartography and Map Production
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In General Command of Mapping (GCM), which is the NMA of Turkey, a project named KartoGen has been started. Its purpose in 2002 is to prepare a workflow for producing the 1:100,000 and 1:50,000 scale maps (which is similar to TLM100 and TLM50) by generalizing TOPO25 data (which is inspired by Vmap 2 specs and FACC ruling). KartoGen produced a framework that addressed the following:

· Moving from conventional workflows to modern (Workstation to ArcGIS).

· Migrating coverages to geodatabase.

· Moving from AML to COM architecture.

· Moving from ArcInfo symbolsets to ArcGIS styles.

· Intellectual preparation and background for the transition from file-based cartography to database-cartography and multi-scale geodatabases.

Generalization is one of the main issues needed to be solved. GCM mapping-workflows have some generic and GCM-specific needs for generalization and cartographic production. ArcObjects components have been investigated intensively in order to satisfy these generalization needs. Hundreds of components, methods, interfaces and many "secret" opportunities in ArcObjects are used to satisfy a sophisticated "contextual" generalization. These customizations will be discussed in this paper.

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