

What's Coming in ESRI ArcGIS 10 Desktop for Better, Faster, More Efficient Geologic Maps, Map Production, and Map Serving

By Willy Lynch

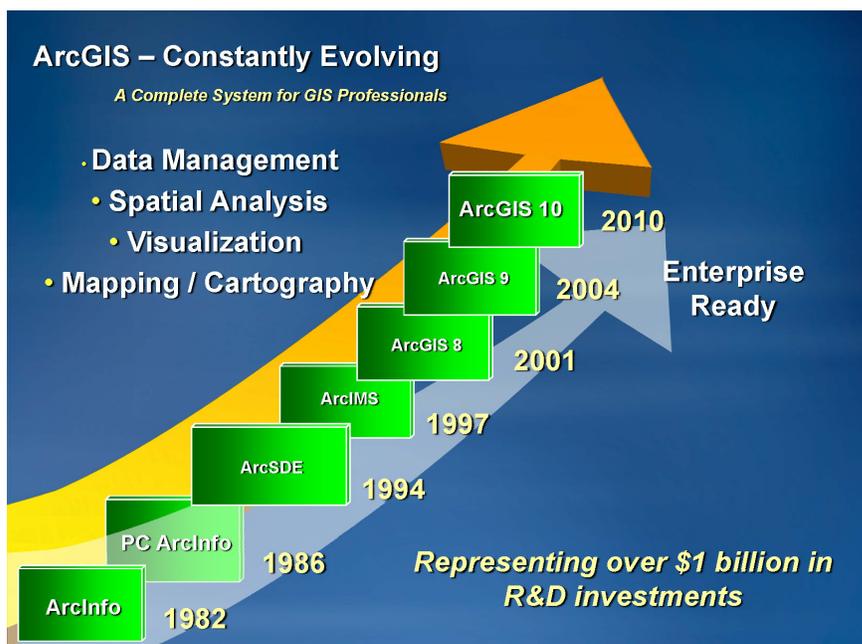
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Introduction

Esri is planning a major release of the ArcGIS software platform in 2010 (fig. 1), which will have significant implications for geologic map making. The new release will allow for better, faster, and more efficient workflows for the desktop user, will enhance collaboration for office and field mappers, and will enhance map publication.

In ArcGIS10, there will be new editing tools based on templates, more complete Python scripting integration for workflows and automation, new 3D editing capabilities, major advances in image management-analysis, and new map production tools ("Data Driven Pages") to facilitate map production. Regardless of whether you are using ArcGIS in a desktop, mobile, or server environment, the new enhancements will improve how geographic information is leveraged

Figure 1. Esri's ArcGIS software is constantly evolving. From the release of ArcInfo in the early 1980s to the pending release of ArcGIS 10 in 2010, Esri's GIS software provides ever improving tools for data management, spatial analysis, visualization, and mapping.



throughout your enterprise. ArcGIS 10 will “transform the way you use GIS.” ArcGIS 10 is expected to be available in June 2010.

GIS technology and its use for geologic map making is constantly evolving (fig. 2). The most current information about existing Esri GIS applications can be found at the Esri Web site <http://www.esri.com>, more information about training for mobile GIS can be found at <http://training.esri.com>, and current geoscience industry examples and case studies can be found at <http://www.esri.com/industries.html>. Please see <http://www.esri.com/software/arcgis/whats-new/new-features.html> for details on new features.

Demonstration

Live demonstrations of ArcGIS 10 using ArcMap, 3D Analyst Extension and ArcGIS Explorer were quickly presented during the DMT meeting (fig. 3). A video file of the demo is available directly from the author and is posted at the DMT 2010 Web site (http://ngmdb.usgs.gov/Info/dmt/docs/DMT10_Lynch1.wmv).

Acknowledgments

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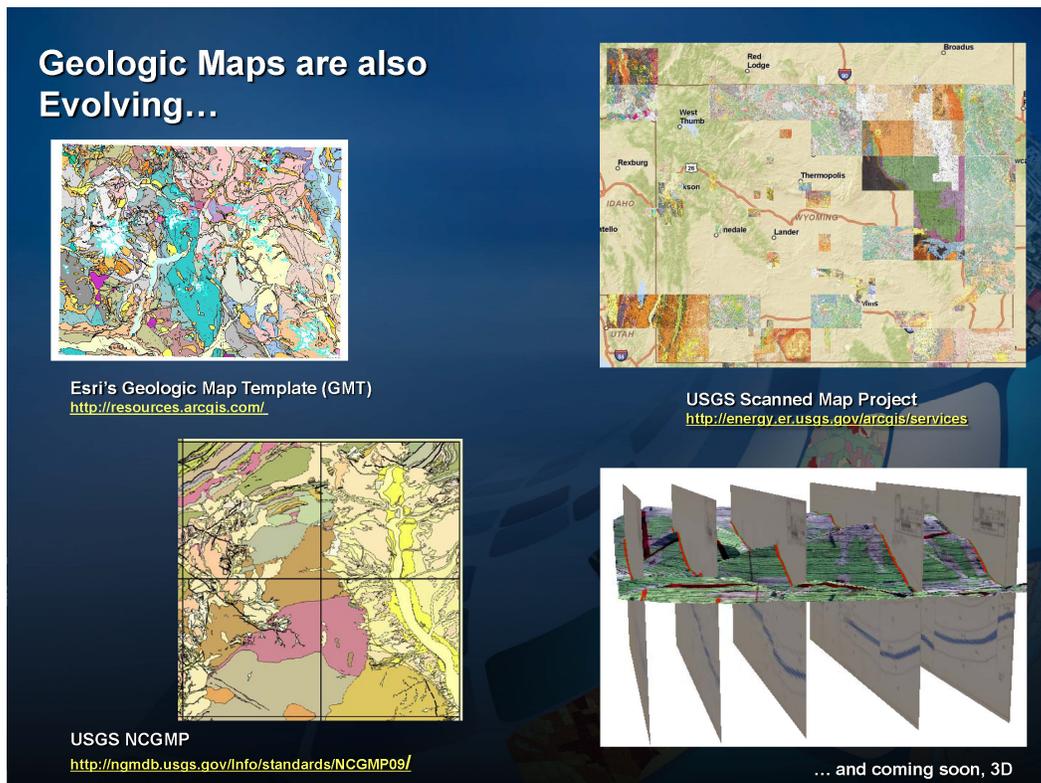


Figure 2. Geologic maps are also evolving from early paper maps of the USGS and State geological surveys to ongoing efforts such as Esri's Geologic Mapping Template (<http://resources.arcgis.com/gallery/file/map-templates/details?entryID=6AA281F3-1422-2418-8825-C44631AFA8EE>) and the USGS's "NCGMP09" geologic map standard database design (<http://ngmdb.usgs.gov/Info/standards/NCGMP09>) and scanned geologic map delivery effort (<http://energy.er.usgs.gov/arcgis/services>).

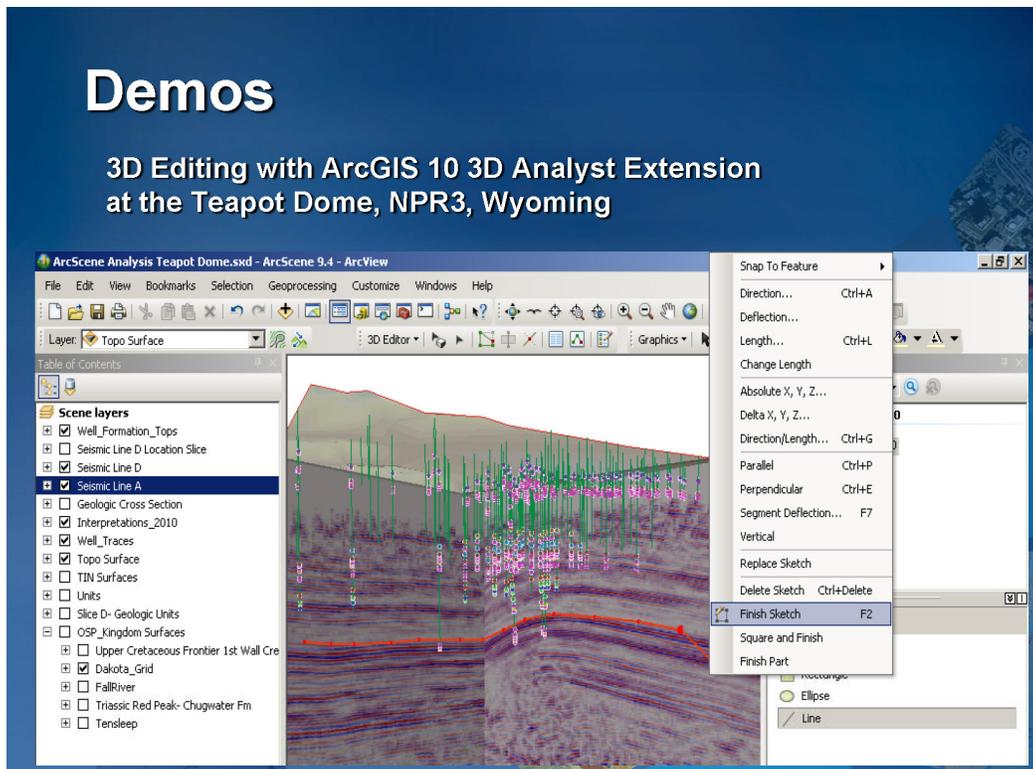


Figure 3. Screen capture of live demo of ArcGIS 10 3D Analyst extension with data from Teapot Dome, Natrona County, Wyoming. NPR3 is the Naval Petroleum Reserve #3 (<http://ludb.clui.org/ex/i/WY3148>).

