

The following was presented at DMT'11 (May 22-25, 2011).

The contents are provisional and will be superseded by a paper in the DMT'11 Proceedings.

See also earlier Proceedings (1997-2010) <a href="http://ngmdb.usgs.gov/info/dmt/">http://ngmdb.usgs.gov/info/dmt/</a>



## Community Maps Implications for the Geologic Community

E BRO ADWAY

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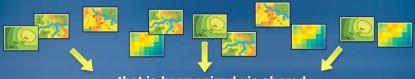
### What is a community map?

- It includes the basic information that the community uses most often to build its maps and do its work
- A small number of basic components, nicely presented
- A tiled, raster service at multiple scales
- Available free and all the time for desktop, web and mobile
- Is it a basemap? Yes and no



### Community maps = a new level of collaboration

Many users from many organizations contributing data



...that is harmonized via shared standards, data models, and templates



...into a comprehensive, multi-scale online map

### Community maps enable and connect many things



### The benefits of community maps

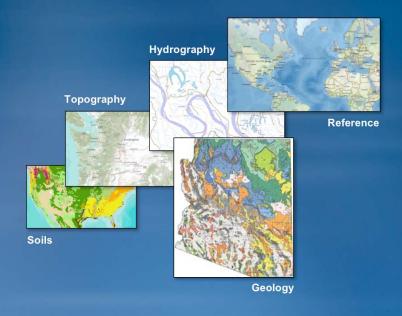
- They save time and money
- They help make beautiful maps
- They cross boundaries and scales
- They encourage and enable collaboration



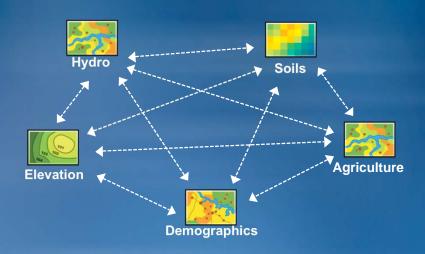
### They can connect to citizens via apps and stories



### There will be many community maps



### Community maps can connect to one another



### **Geologic Community Maps**

**ArcGIS Explorer Online Demo** 

#### Click to run:









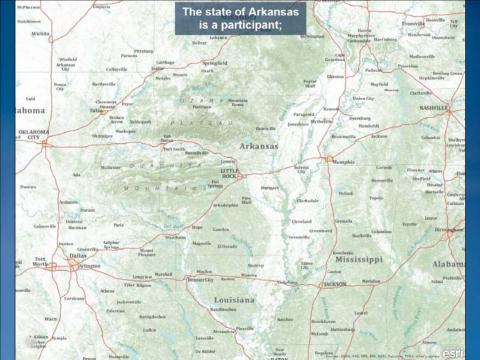












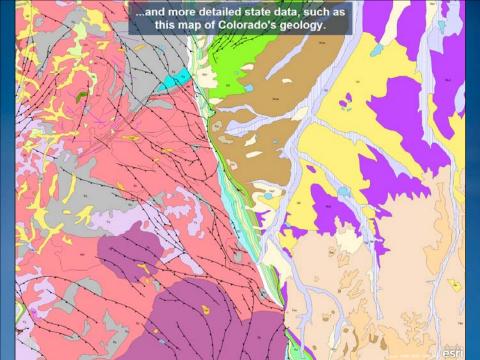


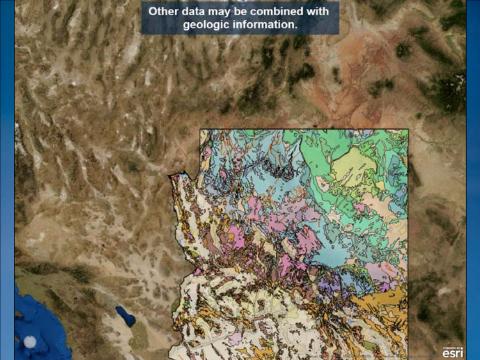


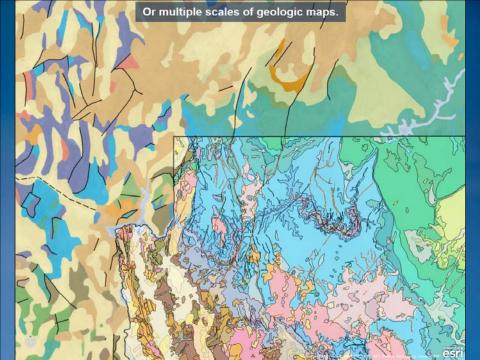














## The Geologic Mapping Template A brief history in DMT time

### Evolution of the GMT

- •Began as an ESRI project to develop, with USGS guidance, Cartographic Representations for the FGDC Digital Cartographic Standard for Geologic Map Symbolization
- Developed into the Geologic Mapping Template
- Serves print and online publishing model

### **DMT 2008**

Presented an ArcGIS cartographic solution to a geologic mapping problem:

- Consistent symbology based on the FGDC specifications
- Geologic map symbol and labeling automation with ArcGIS

Introduction to Cartographic Representations

### **DMT 2009**

Presented the Geologic Mapping Template, an ArcGIS cartographic solution to a geologic mapping problem:

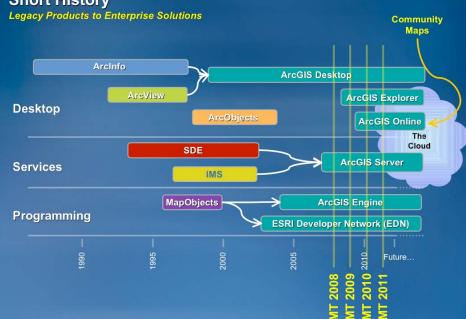
Demo highlighting recommended workflow

### DMT 2010

Presented the Geologic Mapping Template, a solution that supports all evolutionary stages of the geologic map publishing model:

- Print
- Database
- Online (as in ArcGIS Online)

### **Short History**



### So, what's new in 2011?

# The Online Geologic Mapping Template



### Online Geologic Mapping Template

National Cooperative Geologic Mapping Program



- The esriNCGMP Online Geologic Mapping Template is a GIS-based cartographic solution that serves as the foundation for publishing key features of traditional surficial and bedrock geologic map to ArcGIS Server, to eventually be registered on ArcGIS.com or compiled as a web mapping application.
- esriNCGMP Online Geologic Mapping Template brings together the cartography and relevant data structures:
  - FGDC Digital Cartographic Standard for Geologic Map Symbolization
  - Esri Geologic Mapping Template geodatabase schema
  - NCGMP schema

esriNCGMP Online Geologic Mapping Template (v.10 SP1)

http://www.arcgis.com/home/item.html?id=bb02aa75305f40ff87fb6106aa297da9

# FGDC: Geologic Map Symbolization Standard



What are the next steps?