

Esri International User Conference | San Diego, CA Technical Workshops | July 14, 2011

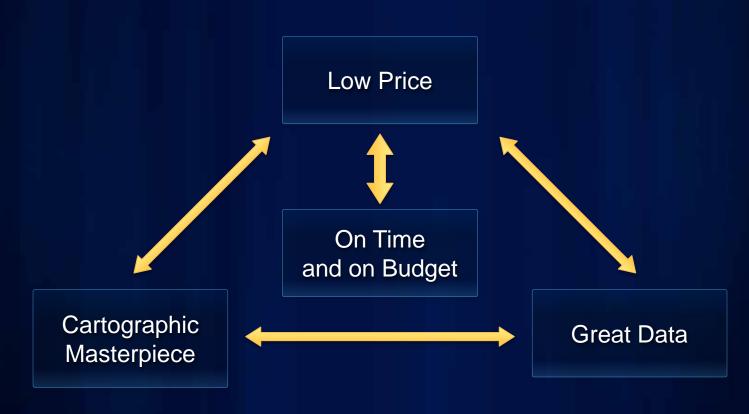
The Business Case for Mapping: Key Technologies that Save You Time

Charlie Frye, Esri, Redlands, Craig Williams, Esri, Redlands

Overview

- Using Maplex for optimal text placement
- Leveraging the Geodatabase for data quality and cartographic display
- Map Templates: High quality examples of how we make maps

Customers Want it All



"You get what you pay for."

Maplex Craig Williams

Maplex: Considerations and Questions to Answer

- Text Placement ranges from 20-80% of the cost to produce a map
- Is it required (not just important) that the text be placed, or placed correctly?
- What percentage of text can automatically
 - be placed out of the total required text?
 - be placed correctly?
- If you plan to edit the location of text, how much time will you spend per map sheet or extent?

Calculating the Cost Benefits of Maplex

- Using the Standard Label Engine, label a map and produce annotation for a study area
 - Manually edit the result into an acceptable final state, keeping track of:
 - Number of edits
 - Type of Edits
 - Average time it took to complete each type of edit
- Repeat using Maplex
- Limit yourself to a timed iteration
- Extrapolate ...



Extrapolate to the entire project extent

- Calculate:
 - Total edits
 - Total time
- Multiply by the hourly rate you would be paid (or would pay an editor)

Maplex label engine included at all license levels with ArcGIS 10.1

If you're not a cartographer, consider:

- Could you have edited some of that text as well as Maplex placed it?
- Could you have set up Maplex or the Standard Labeling to do a better job?
 - How would you figure out what was needed?
 - How long would it take you to get the settings correct?
- While there is a learning curve for Maplex, it will pay off in most applications
 - Map templates reduce the learning curve as examples to follow

Geodatabase Charlie Frye

If its not in the database...

- ... It won't be on your map.
 - Label strings
 - Symbol codes
 - Complex (slow) queries made simple and stored as attributes
- GIS and data-driven cartography are semantically linked

The Geodatabase also provides

- Domains and SubTypes
 - Help enforce consistency by eliminating some human errors
 - Use default values
 - Combine default values with editing templates
- Useful derivative data
 - Geometric Networks (Junctions)
 - Topology

Tools to Change GIS data into Cartographic Data

- If you haven't used these tools:
 - Feature to Line
 - Integrate
 - Polygon to Line
 - Dissolve
 - Collect Events
- Look them up and read the help. They turn less than idea data into good enough, if not great data.

Map Templates Charlie Frye

Avoid Re-Inventing the "Wheel"

- Map Templates are useful examples of how to make a certain kind of map
- Map Templates contain:
 - Sample geodatabase data model—that is a good or best practice to just use or expand on
 - Maplex rules are already defined, so you don't even have to look at them (though we encourage you to do so)
- Find map templates in the ArcGIS Resource Center Galleries

Templates Are Based On A Proven Pattern

- Basemaps and operational layers
 - Basemaps contextualize and orient
 - Operational layers communicate status, statistics, overviews, reports, etc.
- The purpose of these maps is to efficiently convey specific information to specific audiences
 - Minimum effort to implement
 - No extras to distract map users

Templates Are Based On A Proven Pattern

- Basemaps and operational layers
 - Basemaps contextualize and orient
 - Operational layers communicate status, statistics, overviews, reports, etc.
- The purpose of these maps is to efficiently convey specific information to specific audiences
 - Minimum effort to implement
 - No extras to distract map users

Thank you

- Questions (if time allows)
- Evaluations at: www.esri.com/sessionevals
 - You will receive a reminder email