



**Esri International User Conference | San Diego, CA**  
**Technical Workshops | July 11 – 15, 2011**

# **Cartography Road Ahead**

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# ArcGIS 10.1 Cartography

- **Enhancing the functionality from ArcGIS 10**
  - **Dynamic legends**
  - **More Python map scripting**
  - **Multi-scale mapping for large data sets**
- **Focused improvements for map authoring**
  - **Coordinate systems**
  - **Page layout**
  - **Symbology**
  - **Labeling**

# Map Automation



# Dynamic Legends

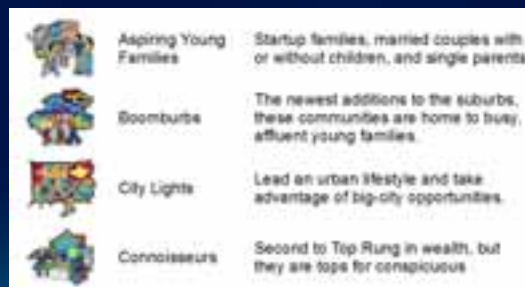
- Display only features in the visible extent
- Dynamic sizing



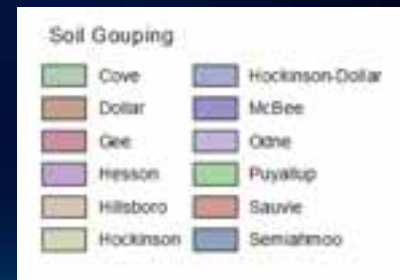
## Feature counts



## Word wrapping



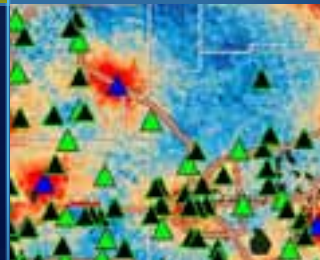
## Column wrapping



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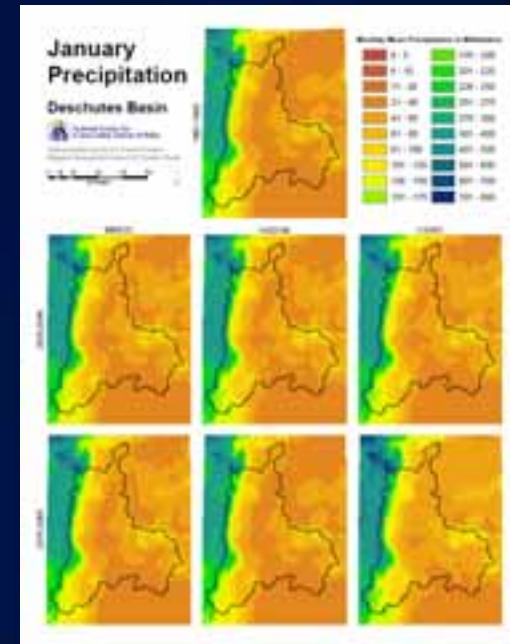
Fulton County Dept. of Health and Wellness/District 3, Unit 2, 04/04/2014

# Dynamic Legends – Demo



# arcpy.mapping Improvements

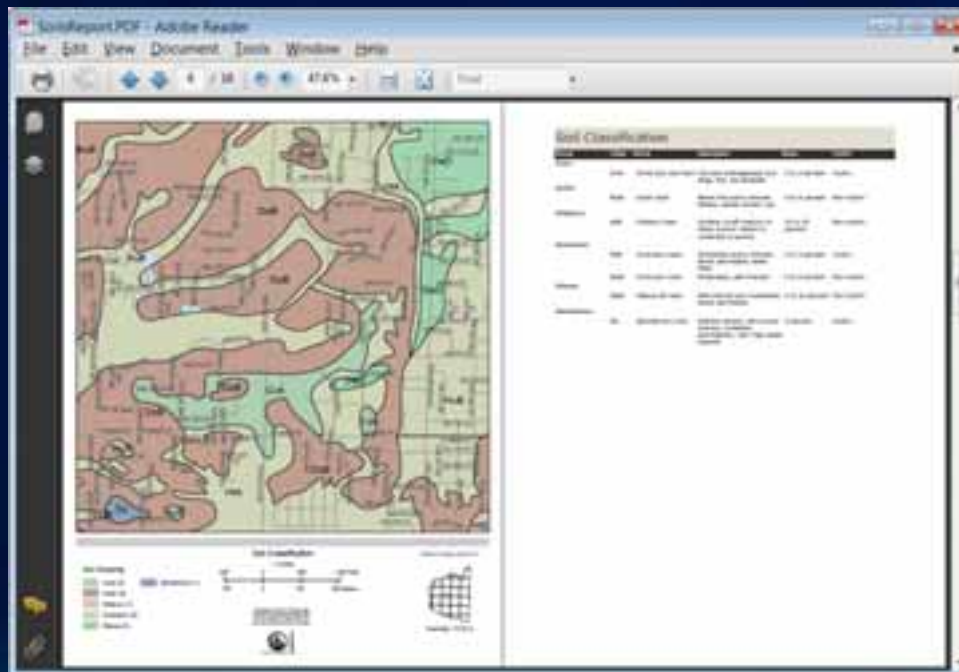
- Access classified symbol renderer properties
  - Support for thematic map books
  - graduated colors
  - graduated symbols
  - unique values
  - raster classified





## arcpy.mapping Improvements

- **Export Report**
- **Layer time properties**
- **Bookmarks**



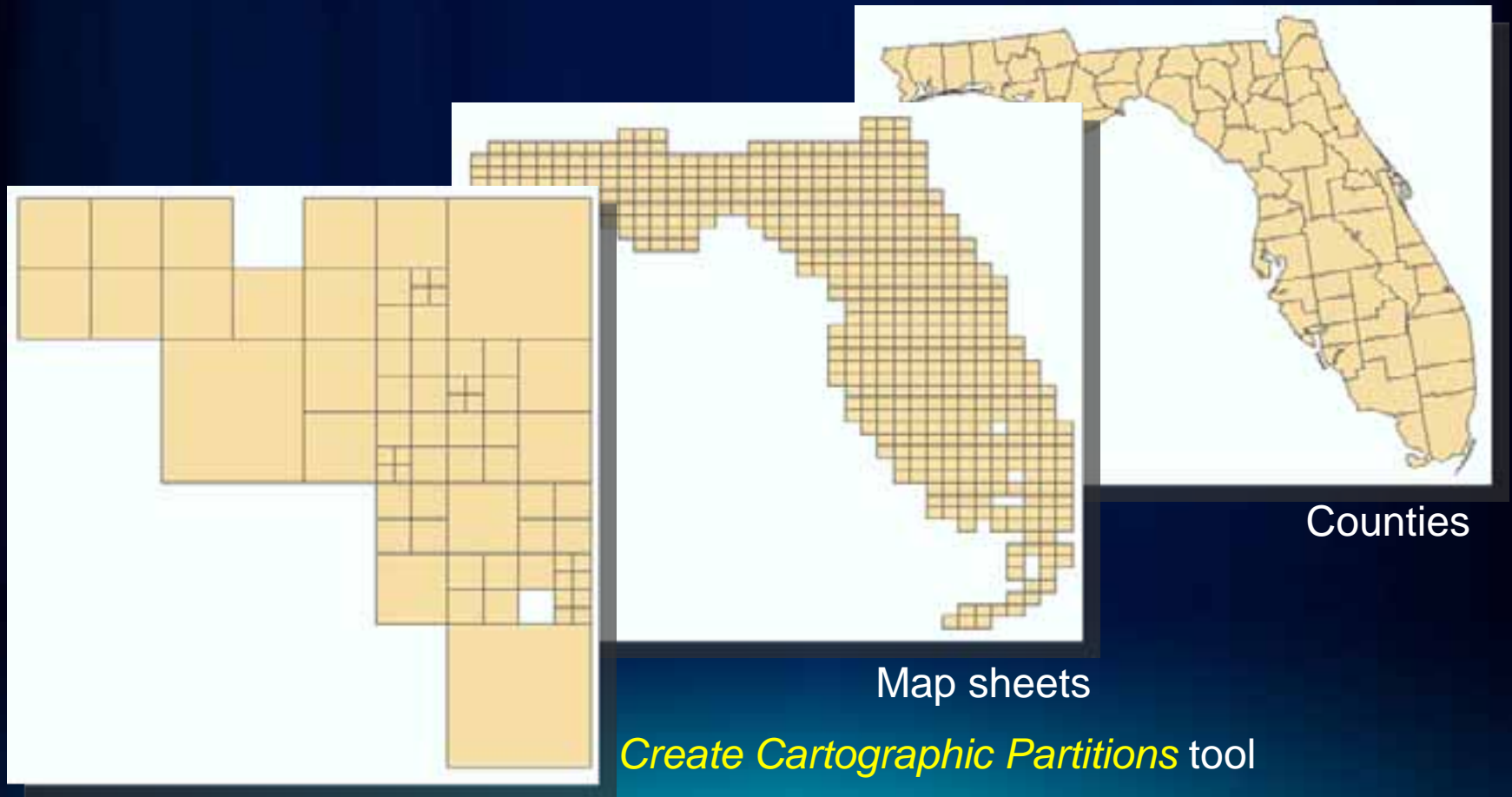
# Multi-scale Mapping





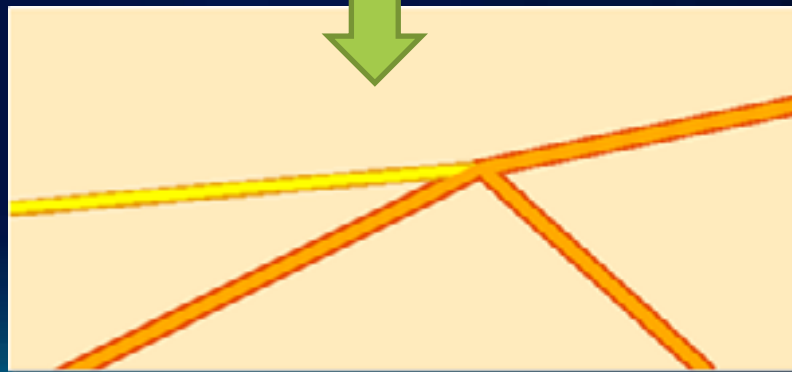
# Process large data sets

- Partitions manage processing
- Geoprocessing environment variable



## ***Collapse Road Detail tool***

- Features that interrupt the road network
- Size parameter



## ***Delineate Built-Up Areas tool***

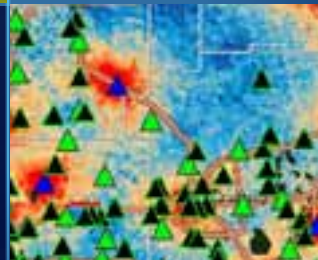
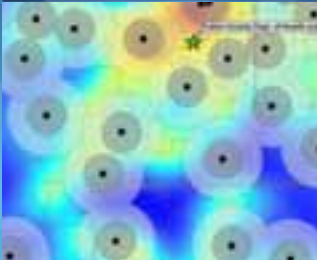
- Based on building groupings
- Snap to edge features



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Fulton County Dept. of Health and Wellness/District 3, Unit 2, 04/04/2014

# Multi-scale Mapping – Demo



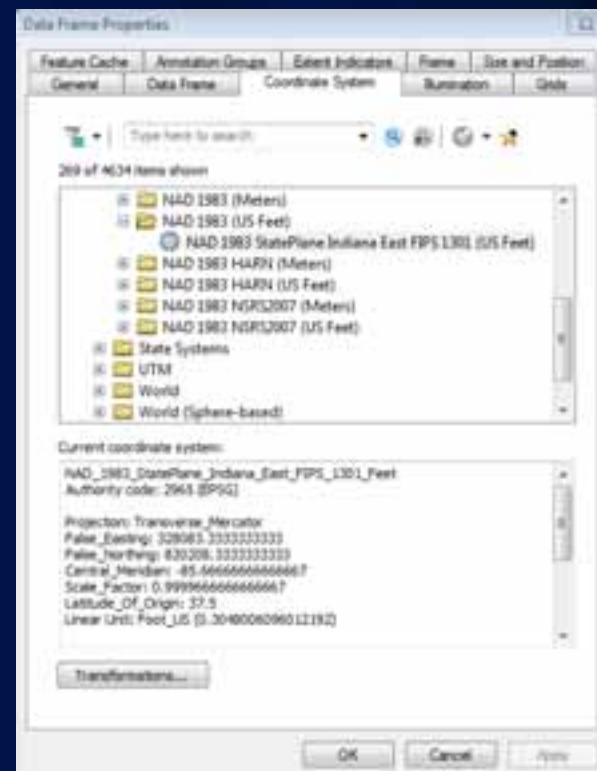
# Map Authoring





# Coordinate System enhancements

- Coordinate system search
- Spatial filter
- Improved favorites experience
- Create compound transformations in the dialog





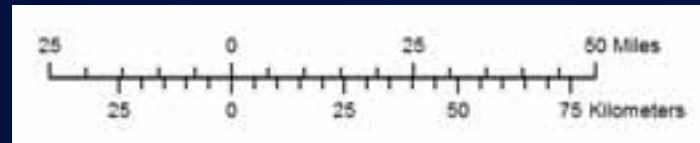
# Page Layout enhancements

- **North Arrow**

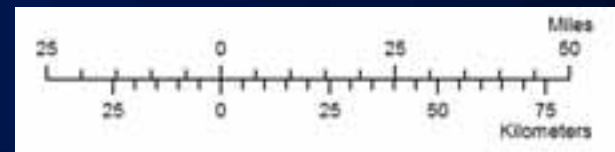
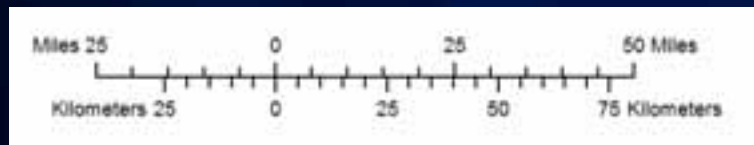


- **Scale bar**

- **Align to zero**



- **Additional unit placement options**



- **Fractions**

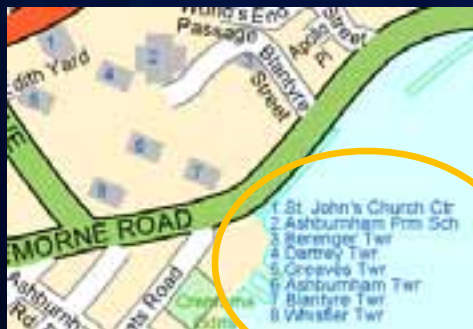


# Labeling enhancements

*Maplex label engine included at all license levels*

- Python label scripts
- Global Maplex properties now at the label class level
- New label placement options

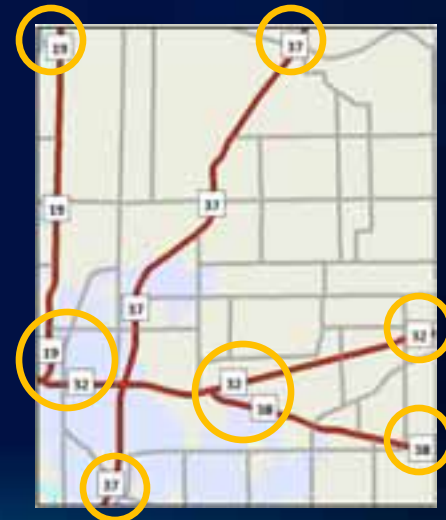
Key numbering



Straddle lines



Borders and Junctions

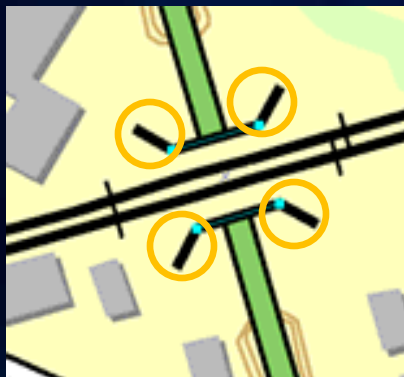


# Symbology enhancements

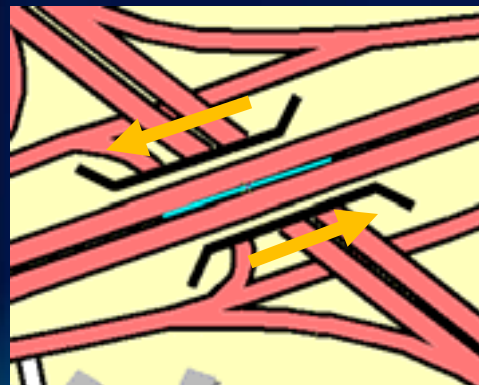
- Support for PNG and JPG marker symbols
- Representations
  - Searchable representation markers and rules
  - Marker placement clockwise rotation
  - New geometric effects



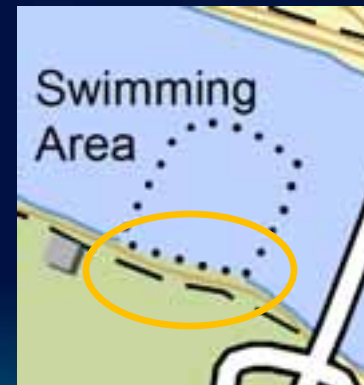
Extension



Offset Tangent



Suppress



**Questions?**



**Thank you**





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