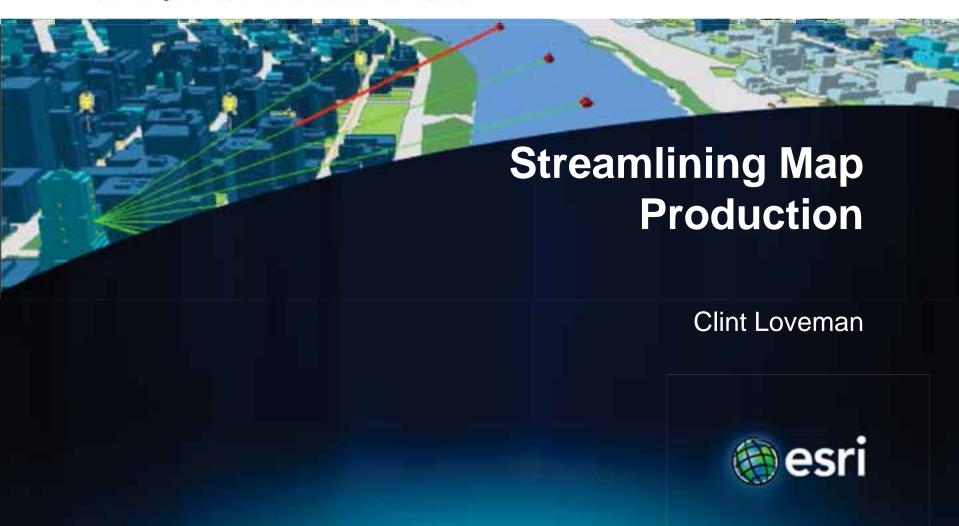
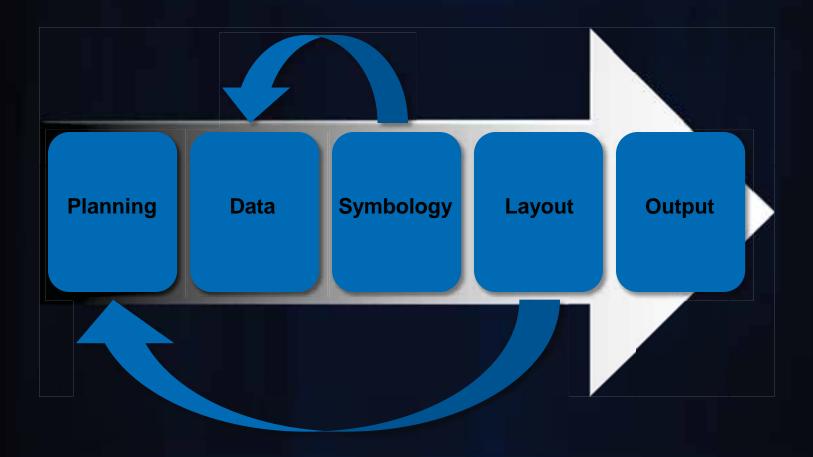
Esri California · Hawaii · Nevada Regional User Group Conference

February 23-24, 2011 • Esri • Redlands, CA



The cartographic workflow



Overview of cartographic workflow

Planning

- Which message needs to be communicated?
- Why does the map need to be created?
- What are your design controls?



Data

- Which data supports the objective?
- Does the data support cartography?
- Is the data available?



Overview of cartographic workflow

Symbology

- Is the data qualitative or quantitative?
- Do symbol standards exist?
- Which type of symbols best meet the objective?



Layout

- Which page size should be used?
- Landscape or portrait page orientation?
- Is there a standard layout or template?
- Will multiple maps be needed?

Output

- How will the map be delivered?





Planning - Map Scale



Area of Interest (AOI)







Small scale





Large scale

0 100 200 300 400 Kilometers

0 1 2 3 4 Kilometers

Planning - Coordinate System



Map objective

Area of interest

Select GCS

Projection properties

Select PCS

Modify properties

Data



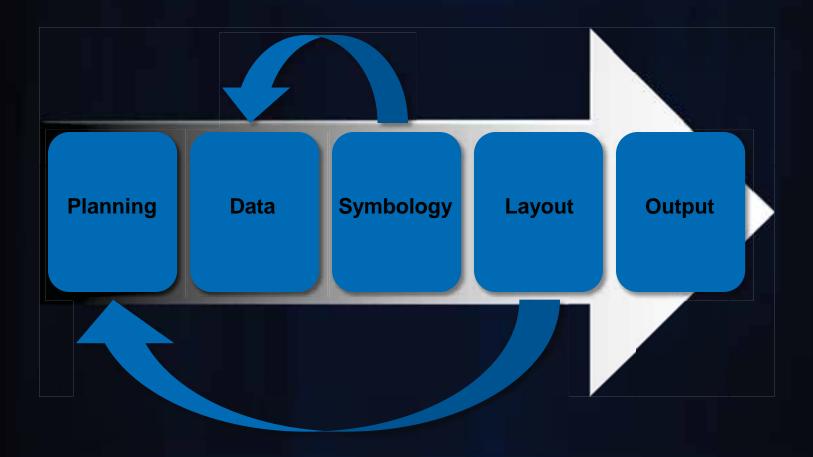
- Selecting Existing Data
 - Help orient the map reader?
 - Support the map objective?
 - Explain the distribution of other data?

Creating cartographic Data

- Manual
- Derived



The cartographic workflow

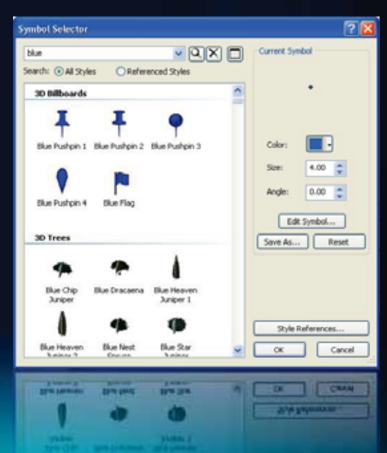




Symbology – Search Styles

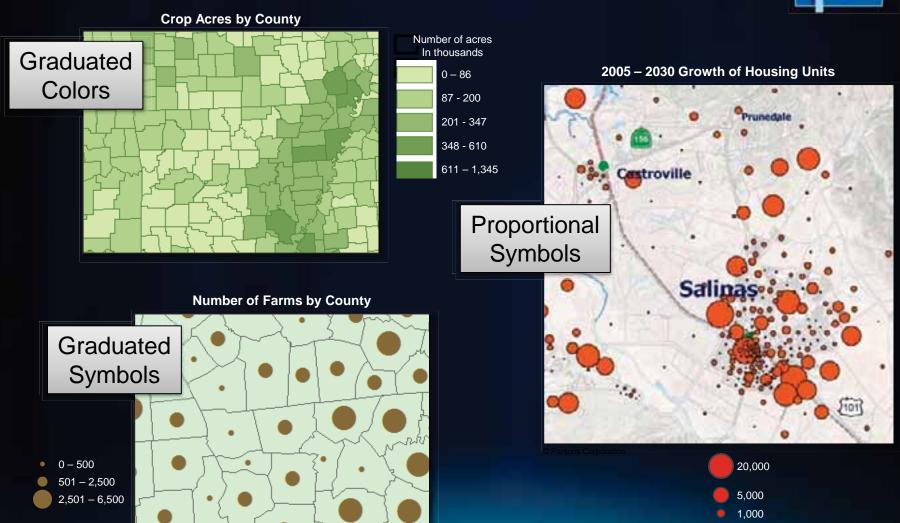
- All or Referenced styles
- Symbol names and tags
- Common search strings "color"





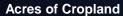
Symbology – Symbolization methods





Symbology – Symbolization methods



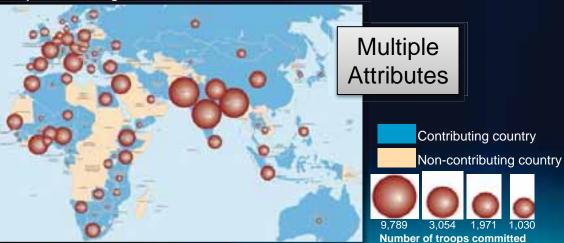




City of Yakima Traffic Safety Analysis

Charts

Troop-Contributing Countries to United Nations Missions



Broadside collisions

Rear-end collisions

All other collisions

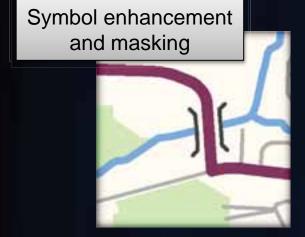
Non-intersection collisions

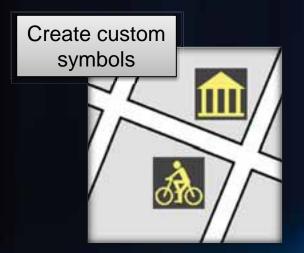
Size of chart related to Broadside collisions

Peak hour traffic count

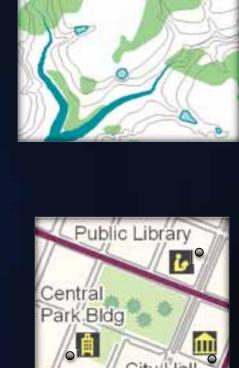
Symbology – Feature Class Representations











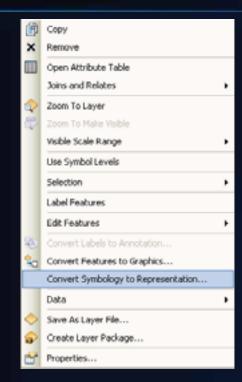
Create geometric

effects

Move symbology independently of geometry

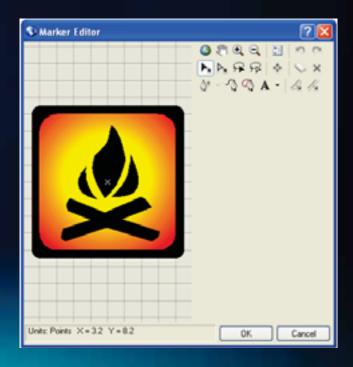
How to Make Representations

- Conversion
 - Layer in TOC



- Style Manager or Layer
 - Representation Rule Editor
 - Marker Editor
- When and Why?





Symbology – Visual Specifications

- Production Mapping Extension
 - Manage representations across many layers
 - Link feature attribution to representation rules
 - Apply symbology using relational queries
 - Single production workflow for symbology and text



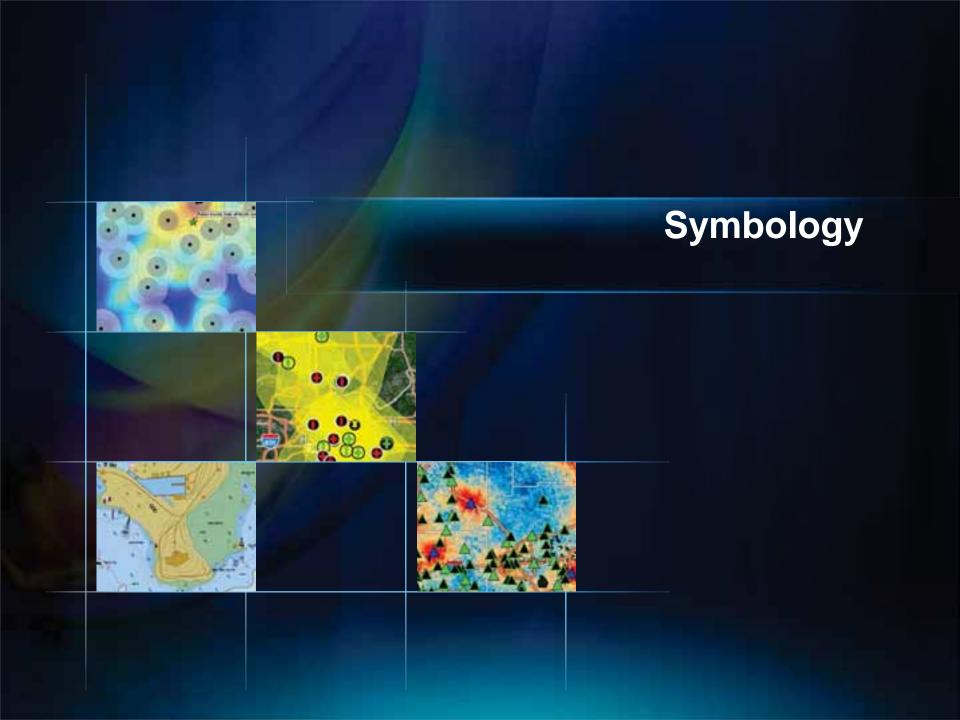


Symbology – Views

- Production Mapping Extension
 - Centralized Data Frame and Layer settings
 - Stored and managed in a geodatabase
 - Allow maps settings within a single document to be updated quickly







Layout – Elements

Supplement the geographic information

- Insert menu & Drawing toolbar
 - Data frame, titles, north arrows, scale bars, etc...
- Production Mapping Extension
 - Graphic table
 - Topographic
 - Declination diagram (north arrow)
 - UTM Grid reference



Layout – Page Management



- Scroll Bars; Rules, Guides and Grids
 - View menu
- Production Mapping Extension
 - Element window
 - list of elements for centralized management
 - Layout rules
 - Relational placement of surround elements



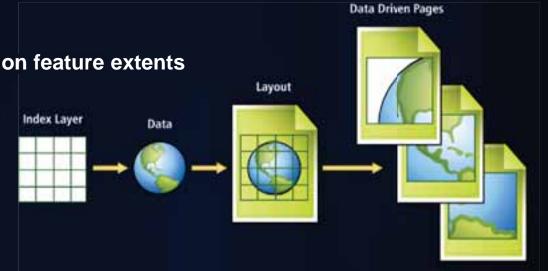
Layout – Document Management

Data Driven Pages

- Single layout
- Index feature layer
- Multiple pages based on feature extents

ArcPy

- Update symbology
- Change data source
- Map export

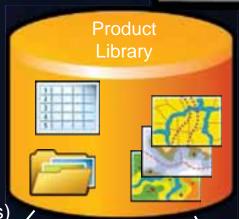


Layout – Document Management

Production Mapping Extension

- Product Library
 - Spatial enabled document management
 - Map Sheets & Data Driven Pages (MXDs)
 - Associated documents
 - Check in/out, undo, get local copy (permissions)
 - Versions
 - Searching
 - Centralized business rules
 - Cartographic display
 - Data quality rules
 - Data editing and attribute display







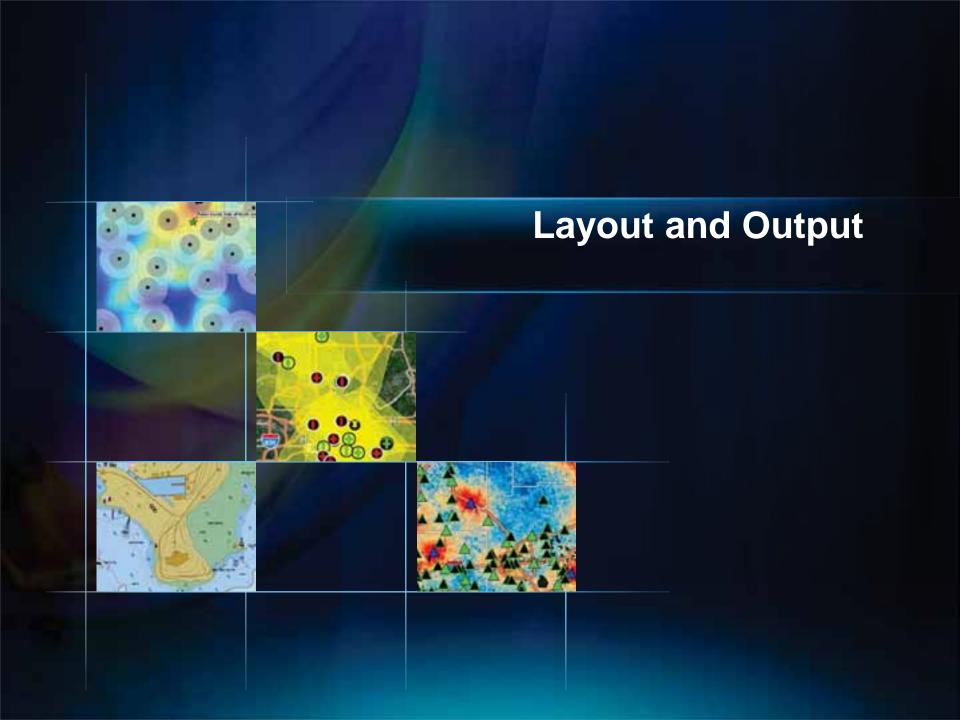




Output

- ArcPy
 - Export
 - PDF Multipage support
- Production Mapping Extension
 - Layout GeoTIFF
 - Color Separation
 - Raster TIFF
 - Vector EPS Spot Color







Product Information

- Enables high volume, high quality production
- Facilitates standard, repeatable workflows
- Individual Extensions
 - Data Reviewer
 - Workflow Manager

- Suite of Extensions
 - Production Mapping



Great Resources

- Resource Center
- Product Information
 - Production Mapping www.esri.com\productionmapping
 - Data Reviewer www.esri.com\datareviewer
 - Workflow Manager www.esri.com\workflow

