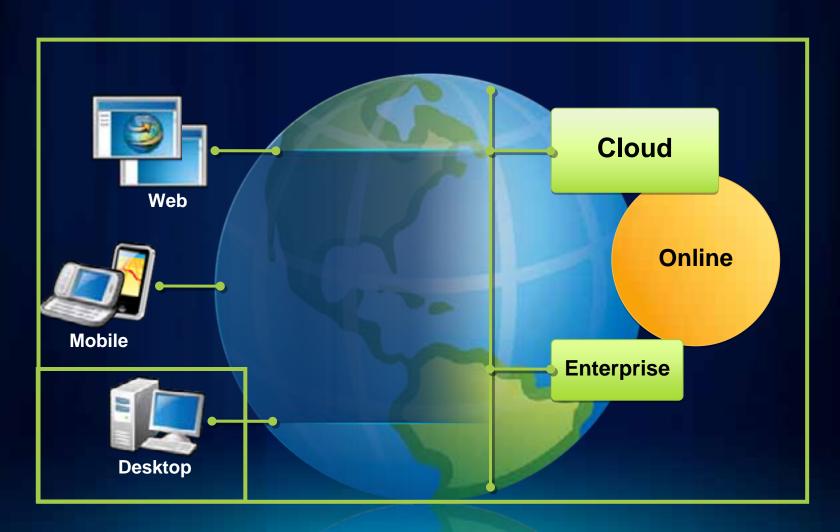


Esri International User Conference | San Diego, CA Technical Workshops |

ArcGIS for Desktop 10.1

ArcGIS

A Complete System for Geographic Information



Agenda

- Sharing Maps and Data
- Analysis and Geoprocessing
- Mapping and Visualization
- Editing
- And more

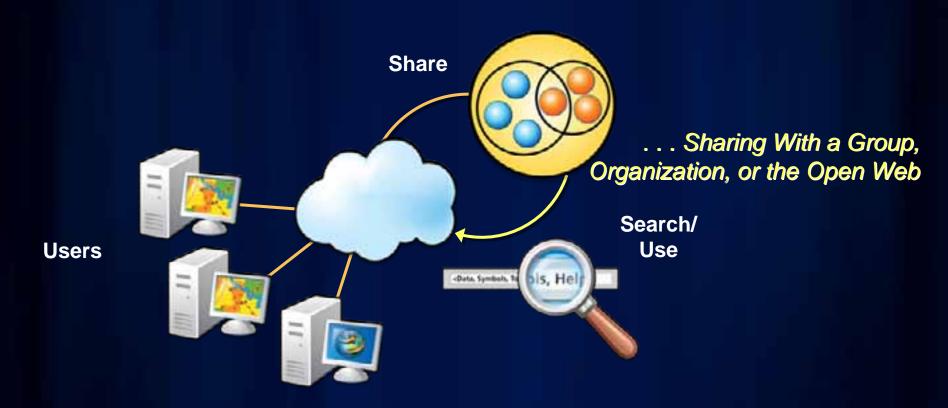
ArcGIS Desktop 10.1

- Builds on 10.0
- Beta 1 July \ August
- Release early 2012
- BetaCommunity.esri.com
- Review this (and all sessions)
 - www.esri.com/sessionevals



Information Sharing is Critical

Primary focus of the Desktop Team



Transparency and easy information access are now expected...

Sharing as a Package





Sharing as Services

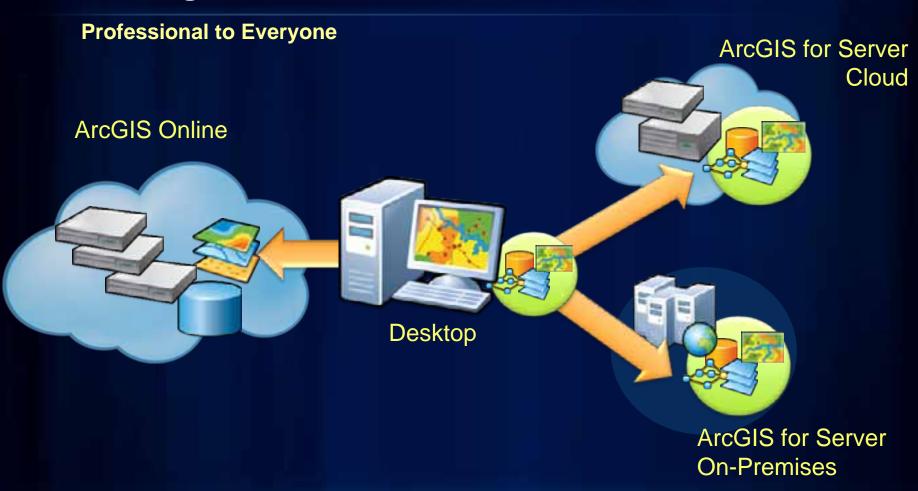
Professional to Everyone

Vision

- Make it easier to share GIS resources
 - Unified sharing experience
 - Comprehensive Analysis
 - Sharing to servers in the cloud and to ArcGIS Online



Sharing as Services



Demo

Sharing services as hosted Maps on ArcGIS Online



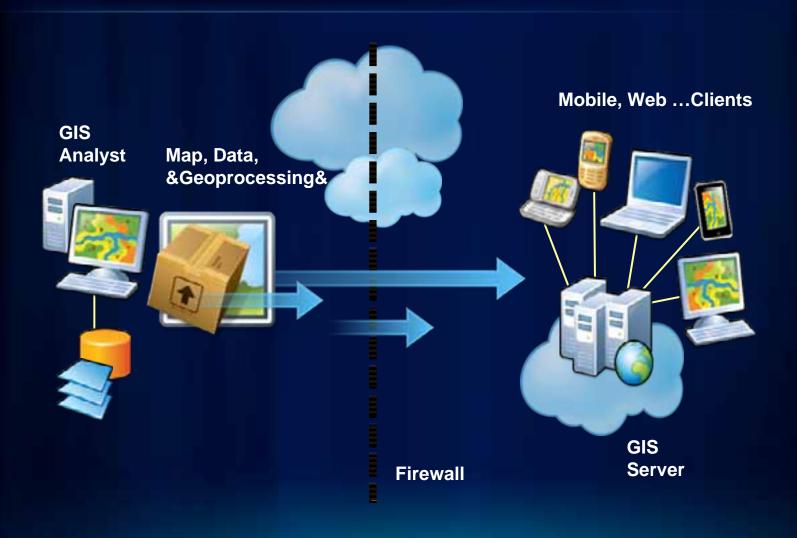
ArcGIS Online – Hosted Mapping

Unlock the skills and knowledge of Desktop users

- Ready to use ArcGIS in the cloud
- No server installation or administration
- Access from any where



Sharing GIS Capabilities to Cloud Servers





ArcGIS Simplifies Sharing Your Work

Maps, Data, Tools, and Models . . .

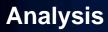


Sharing Analysis



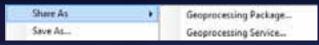
GIS Professionals







Share as...





Service

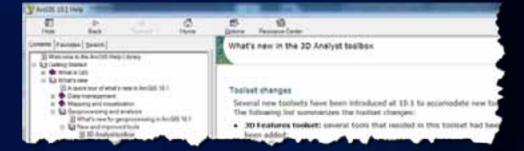


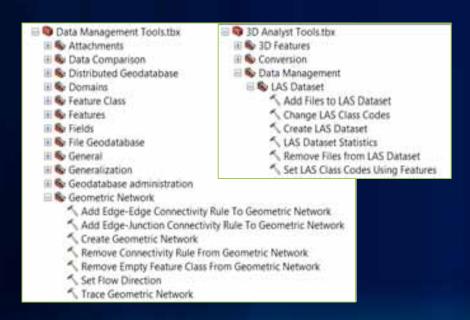


Sharing Analysis and Geoprocessing Demo

New Geoprocessing Tools

- 85 New Tools
- 117 New Parameters



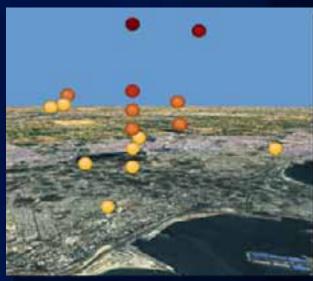


New Tools and Enhancements

- Identify space-time clusters
- Easily identify key explanatory variables for regression analysis

Foot and Mouth outbreaks in 2001





Libya Ushahidi events in space and time

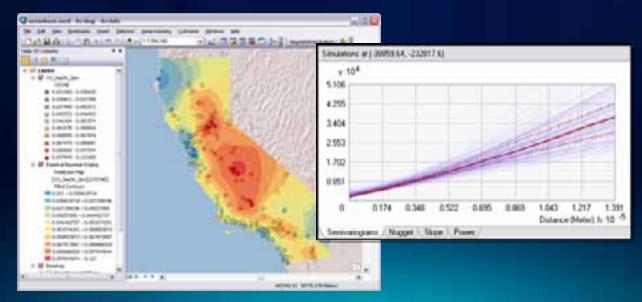
- Group similar features
- Find appropriate scale of analysis



New Tools and Enhancements – Geostatistical Analyst

Empirical Bayesian Kriging

- Spatial relationships are modeled automatically
 - Very easy to use (few parameters)
 - Available as a GP tool
- Results often better than traditional kriging
- Uses local models to capture small scale effects
 - Doesn't assume one model fits the entire data

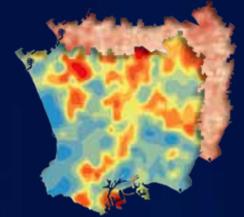


New Tools and Enhancements – Geostatistical Analyst

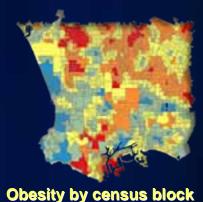
Areal Interpolation



Obesity by school zone



Obesity surface and error surface



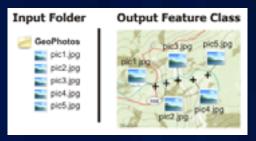
Cast data to a different geometry

- School zones to census tracts
- Design your aggregation scheme to fit your analysis
- Model and fill-in missing data



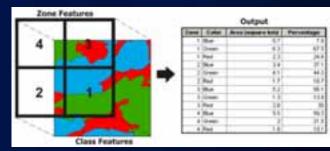
New Tools and Enhancements

- Easier to work with GPS data
 - GPX to Layer
 - GeoTagged Photos To Points
 - Match Photo To Row By Time



Geotagged Photos To Point

- Better KML experience
 - KML to Layer, Layer to KML
- Easier to do complex workflows
 - Tabulate Intersection
 - Polygon Neighbors



Tabulate Intersection

More Accurate Buffering (geodesic)



Python Improvements

- Network Analyst Module
 - Automate NA workflows through Python
- Data Access Module
 - Fast cursor performance
 - Edit operations
 - Geometry operators
- Python Toolboxes
 - Easier for python developers to create tools
 - Create tools outside of desktop
- Python Add-ins
 - Extend desktop functionality with Python



ROAD AHEAD SESSIONS

Road Ahead - Sharing of Analysis

Wednesday July 15th 11:05AM 11:25AM 6 B

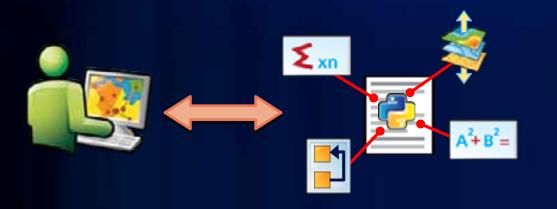
Road Ahead - Python Scripting Abilities

Thursday, July 14th, 4:05PM 4:25PM 6 B

Road Ahead - Analysis Capabilities

Thursday July 16th 3:40PM 4:00PM 6 B

Developer



Python Scripting for automation and scientific task



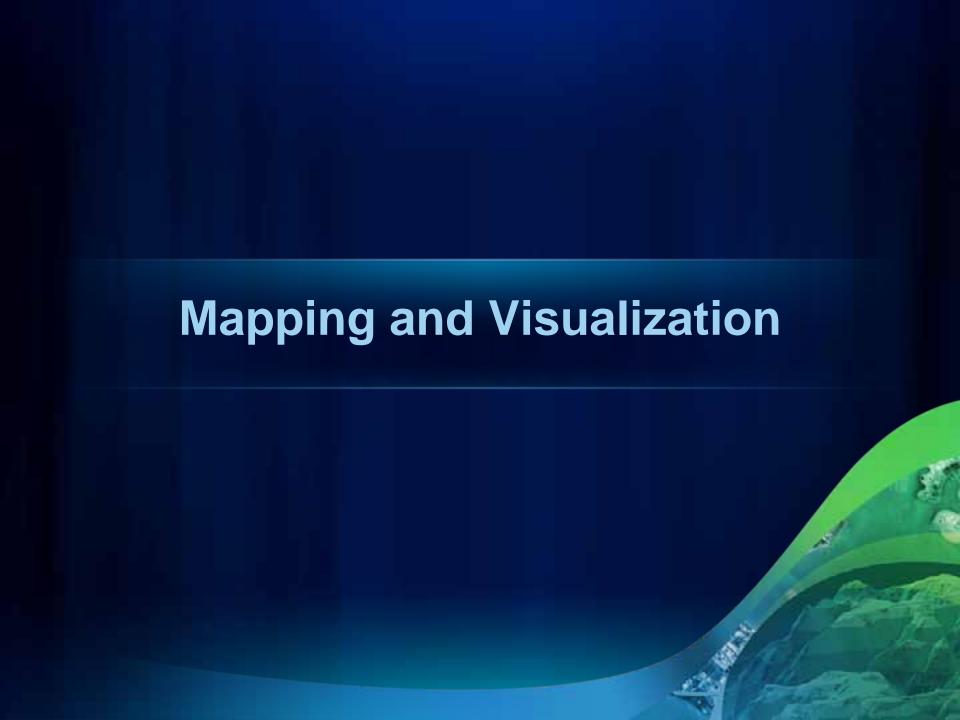
Python .NET or Java Add-Ins Simple to build and share



ArcObjects SDK Visual Studio 2010

What about VBA?

- No VBA ArcObjects SDK
- VBS support only for legacy solutions
- Start your migration now



Mapping and Visualization

Enhancing the functionality from 10

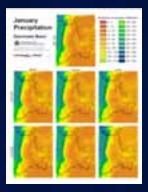
Dynamic legends



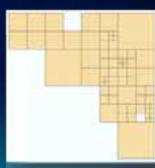
Additional layer types in basemaps



More Python scripting



Large data set generalization

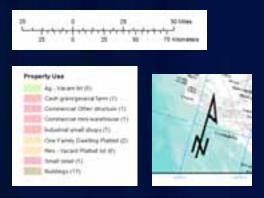


Time live mode



Mapping Improvements

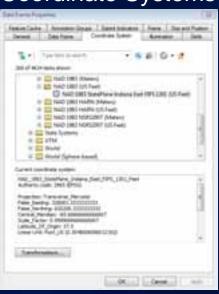
Layout



Symbology



Coordinate Systems

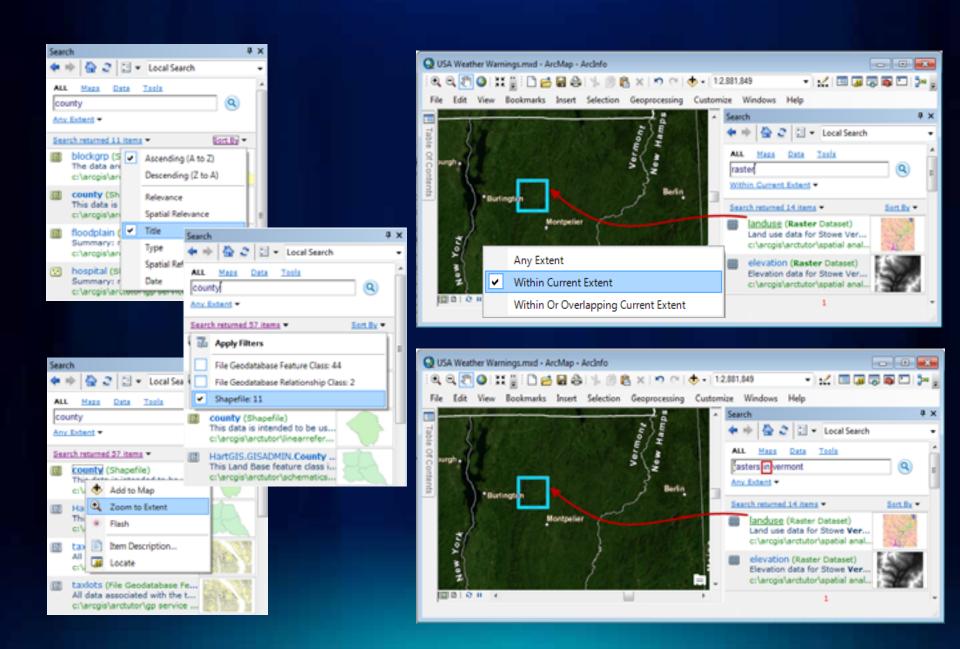


Labeling





New in Search at 10.1





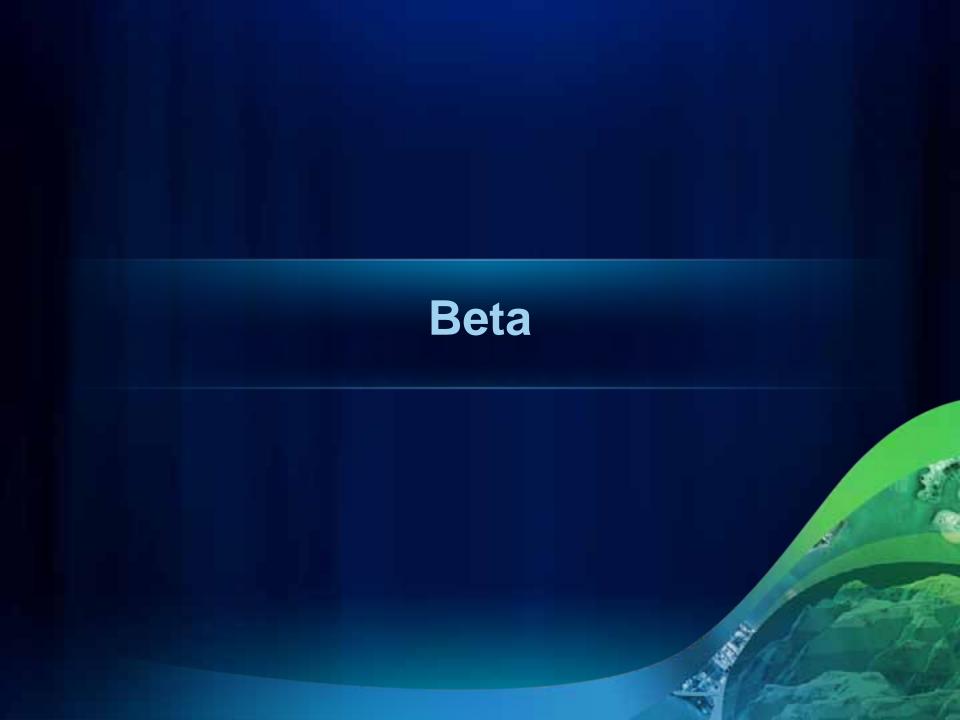
Editing: Auto-Populated Fields

- Tracks who's editing what and when
 - Created by user and time
 - Last updated by user and time
- Popular custom tool and common enhancement request

Editing of Integrated Datasets

- Many "traditional" GIS domains have continuous data
 - Forestry, geology, land use, etc.
- Improve data quality
 - Align data to resolve inconsistencies
 - Allow reshaping of multiple edges at same time
 - Enable recapture of existing geometry

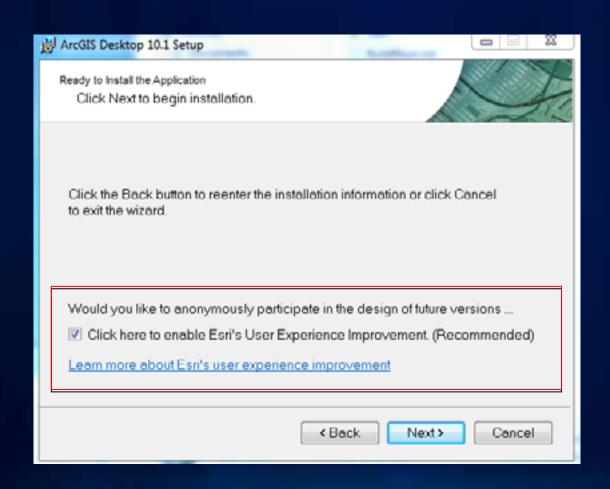




Beta

- Coming Soon
- http:\\betacommuntiy.esri.com
- Better forums, task, journals and bug reporting

User Experiences Improvement Program



Name Change

Name Prior to 10.1	New Name
ArcGIS Desktop	ArcGIS for Desktop
ArcInfo	ArcGIS for Desktop Advanced
ArcEditor	ArcGIS for Desktop Standard
ArcView	ArcGIS for Desktop Basic

License Upgrading

- New simpler, automated process to upgrade licenses to 10.1
 - Uninstall 10.0 without de-authorizing any licenses
 - Install 10.1
 - Wizard will help you automatically upgrade licenses to 10.1 (internet required)
- No need to enter new authorization numbers
- Single and Concurrent Use
- 10.0 can use a 10.1 License Manager

Desktop Product Changes

- No ArcInfo Workstation at 10.1
 - 10.0 Continues to work with
- No SQL Server 2005 Support
- No Visual Studio 2008
- No VBA ArcObjects SDK

Thanks!

- Session evaluations online
- www.esri.com/sessionevals

