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

ArcGIS for Desktop 10.1
ArcGIS
A Complete System for Geographic Information

Cloud
Online
Enterprise
Web
Mobile
Desktop
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
Sharing
Information Sharing is Critical

Primary focus of the Desktop Team

Transparency and easy information access are now expected…

... Sharing With a Group, Organization, or the Open Web

Users

Share

Search/Use

Transparency and easy information access are now expected…
Sharing as a Package

Professional to Professional

ArcGIS Online

ArcGIS for Desktop

Map and Layer Packages

New at 10.1
Tile, Geoprocessing & Locator Packages

Sharing Tradecraft
Sharing as Services

Professional to Everyone

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

Sharing services as hosted Maps on ArcGIS Online

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 anywhere
Sharing GIS Capabilities to Cloud Servers

GIS Analyst

Map, Data, & Geoprocessing

Firewall

Mobile, Web ... Clients

GIS Server
ArcGIS Simplifies Sharing Your Work

Maps, Data, Tools, and Models . . .

Desktop → Packages → Services → Online (Cloud)

. . . Automating the Process of Creating Services
Sharing Analysis

Analysis

Share as…

Package

GIS Professionals

Service

Everyone
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

- Group similar features
- Find appropriate scale of analysis

Libya Ushahidi events in space and time

¼ Mile Radius ½ Mile Radius 1 Mile Radius
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

- 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

• Better KML experience
  • KML to Layer, Layer to KML

• Easier to do complex workflows
  • Tabulate Intersection
  • Polygon Neighbors

• More Accurate Buffering (geodesic)
Geoprocessing Demo
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
Mapping and Visualization

Enhancing the functionality from 10

Dynamic legends

More Python scripting

Additional layer types in basemaps

Time live mode

Large data set generalization
Mapping Improvements

Layout

Coordinate Systems

Symbology

Labeling
New in Search at 10.1
Editing
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

Continued improvements to support best practices
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

Simplify user experience for maintaining integrated data
Beta
Beta

- Coming Soon
- http:\betacommunity.esri.com
- Better forums, task, journals and bug reporting
User Experiences Improvement Program

Would you like to anonymously participate in the design of future versions ...

☑ Click here to enable Esri's User Experience Improvement. (Recommended)

Learn more about Esri's user experience improvement
## Name Change

<table>
<thead>
<tr>
<th>Name Prior to 10.1</th>
<th>New Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcGIS Desktop</td>
<td>ArcGIS for Desktop</td>
</tr>
<tr>
<td>ArcInfo</td>
<td>ArcGIS for Desktop Advanced</td>
</tr>
<tr>
<td>ArcEditor</td>
<td>ArcGIS for Desktop Standard</td>
</tr>
<tr>
<td>ArcView</td>
<td>ArcGIS for Desktop Basic</td>
</tr>
</tbody>
</table>
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](http://www.esri.com/sessionevals)