



**PUG 2009**

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# *Unlocking the Potential of* **ArcGIS Explorer**

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# Topics for this session

- Introduction
- Overview of features
- Using ArcGIS Explorer effectively
- Introducing ArcGIS Explorer 900
- New features & capabilities
- Demonstrations

**\*Note: Explorer 900**

# ArcGIS Explorer

- Is a free, downloadable geobrowser that provides an easy way to explore, visualize, and share GIS data and capabilities, along with other content.
- Is for
  - the **geographic information user** that wants to use, visualize, and share geographic information, but may not be a GIS expert
  - **GIS organizations** that want to deploy GIS data and capabilities to a broad audience
- Uses a wide variety of data (Web and local)
- Includes tools to assemble data, visualize, share, and present information geographically

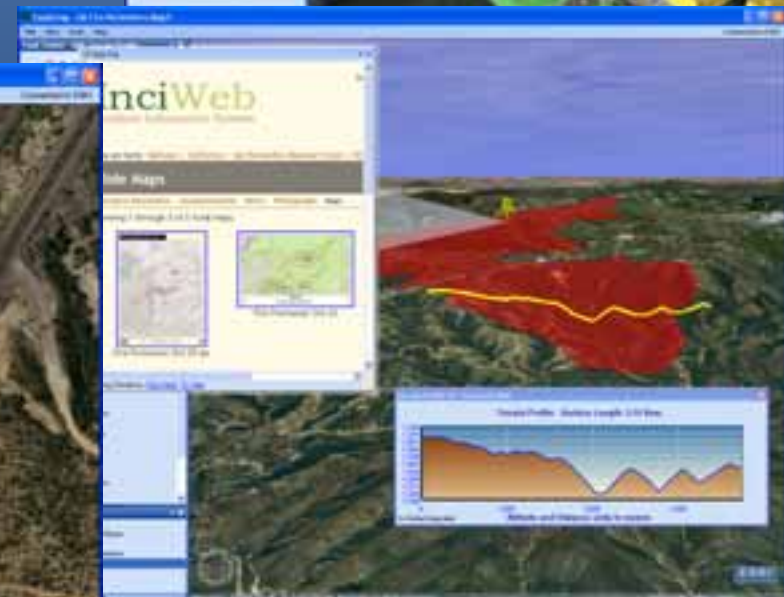
# ArcGIS Explorer

*Part of your overall GIS implementation*

- Is part of ArcGIS
  - ArcGIS Online data and sharing
  - ArcGIS Desktop (authoring)
  - ArcGIS Server (services)
- Enables GIS organizations to *leverage* and *add value to* their GIS
  - Broader dissemination, sharing, collaboration
  - Reach a variety of audiences
  - Address specific audience needs
- An *integrated* and *integral* part of any GIS implementation

# With Explorer you can...

- Explore & visualize
- Author & share
- Use tasks (tools\*)
- Present & communicate



\*Explorer 900

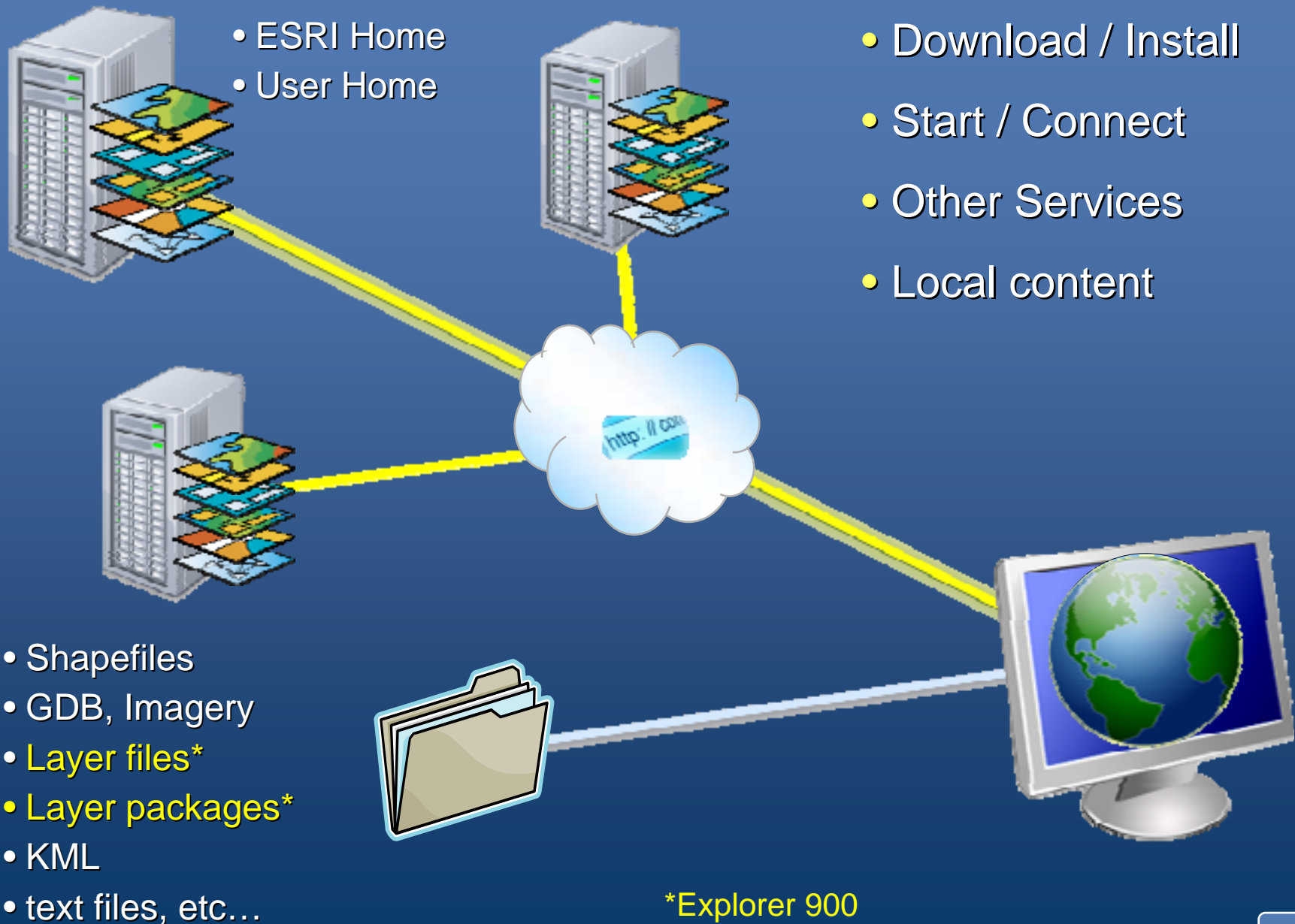
# Before we begin...

- Let's take a quick look at an example of what we'll be talking about...

## Demonstration









ArcGIS Explorer is based upon ArcGIS Online, which provides data, tools, and sharing.

## ArcGIS Online



Default maps, layers  
Subscription maps



- Gazetteer
- Routing
- Geocoding
- More...



ArcGIS Explorer

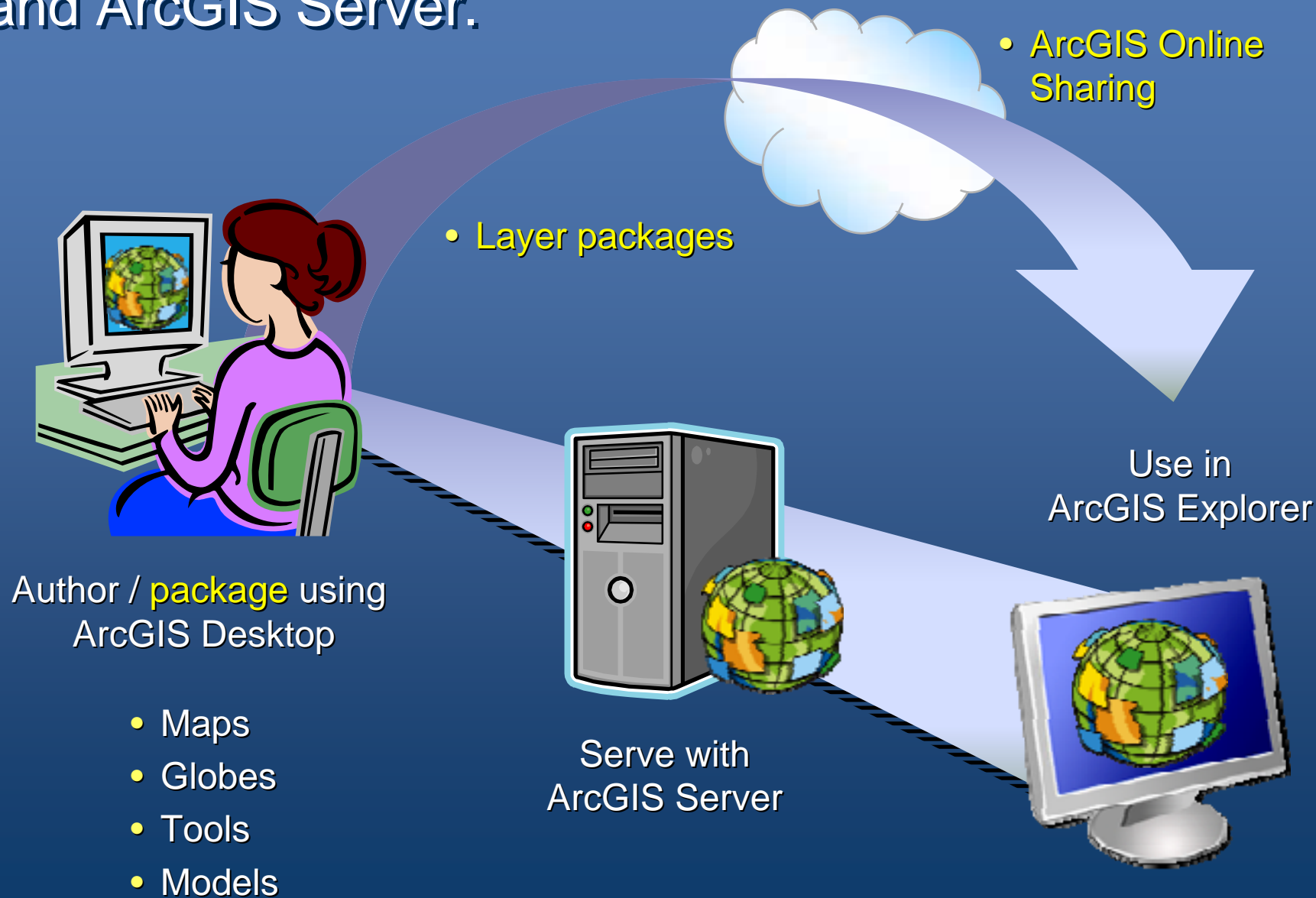


Sharing  
Search – Discover – Use\*

\*Explorer 900

ESRI

# ArcGIS Explorer can be extended via ArcGIS Desktop and ArcGIS Server.



ArcGIS Explorer enables anyone to communicate geographically.



ArcGIS Explorer can be easily tailored for specific users, and can be easily administered and deployed throughout your organization.





ArcGIS Explorer is an integral part of your GIS enterprise.



# ArcGIS Explorer in summary...

- is free, lightweight, downloadable, and easy to use
- leverages ArcGIS Online
- is an ArcGIS Server client, and a way to provide access to enterprise-based maps and tasks
- can integrate ArcGIS content and tasks from many sources
- can integrate Web services
- can combine other content and information on a map
- is a way to present and share information geographically

*Is for the Geographic Information User*



# ArcGIS Explorer roles

- Author data and services to be used in Explorer
- Assemble maps and presentations
- Use maps and presentations

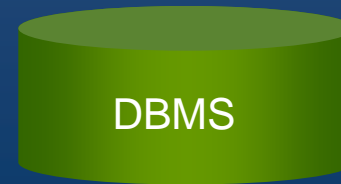
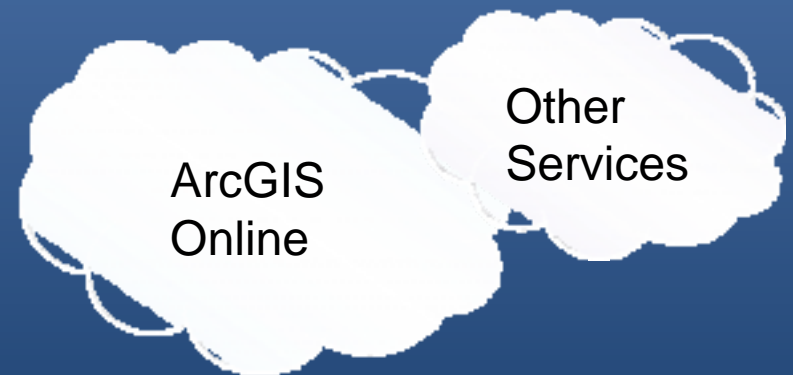
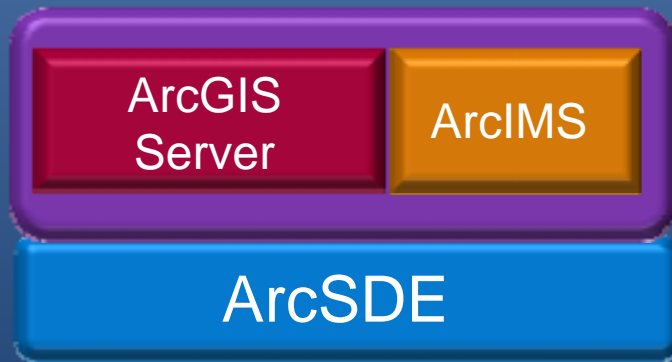


# ArcGIS System

Mobile

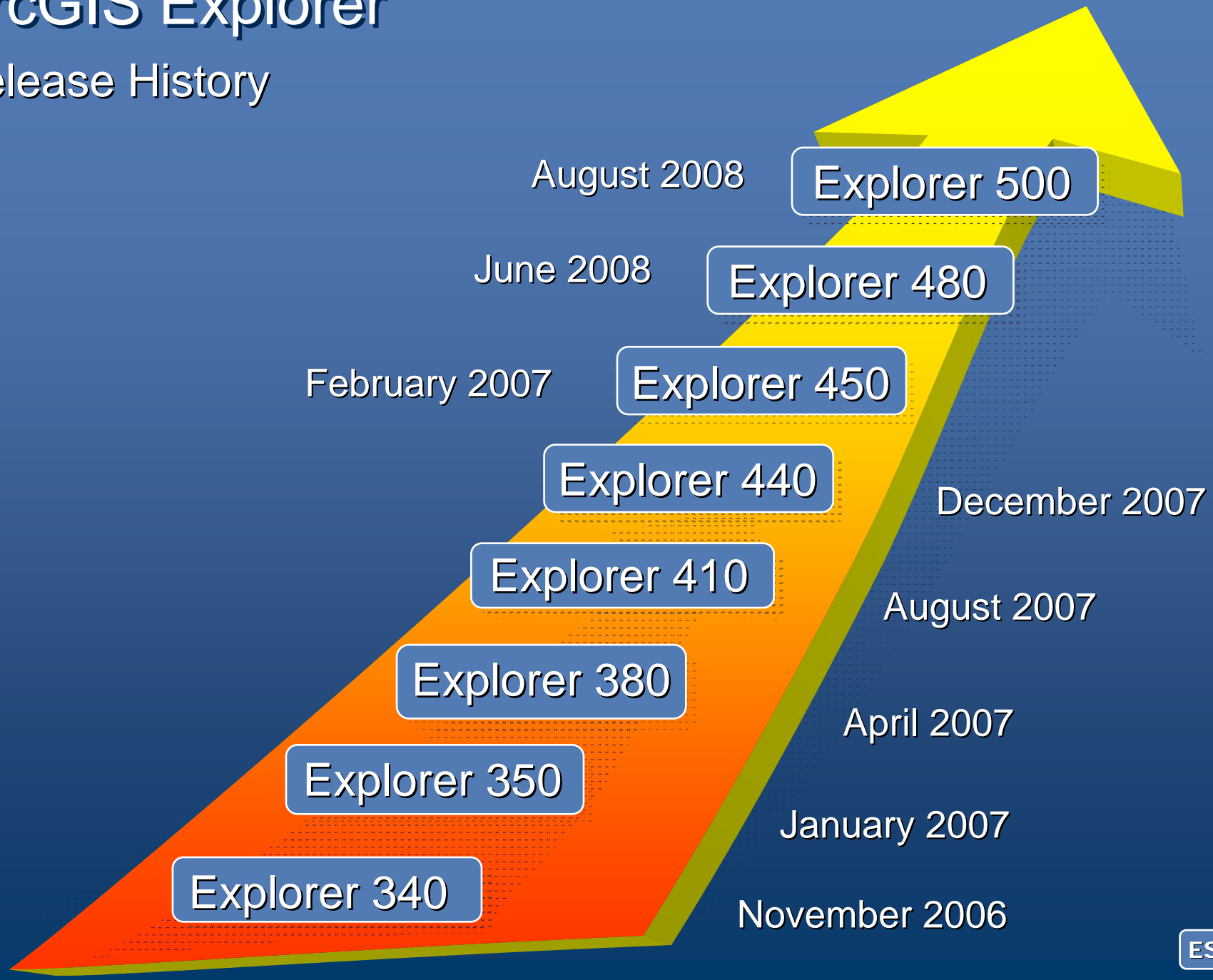
Web

Desktop



# ArcGIS Explorer

## Release History





# Navigation

- The navigator, mouse, and keyboard



To do this	Press
Move left. Turn left while flying.	<b>A</b> or <b>←</b> (left arrow)
Move right. Turn right while flying.	<b>D</b> or <b>→</b> (right arrow)
Rotate left.	<b>V</b> or <b>Shift</b> + <b>←</b> (left arrow)
Rotate right.	<b>E</b> or <b>Shift</b> + <b>→</b> (right arrow)
Move forward or up.	<b>W</b> (up arrow) or <b>↑</b>
Move back or down.	<b>S</b> (down arrow) or <b>↓</b>
Move straight up.	<b>Ctrl</b> + <b>↑</b> key
Move straight down.	<b>Ctrl</b> + <b>↓</b> key
Zoom in.	<b>F</b> or <b>+</b> key or <b>Ctrl</b> + <b>↑</b> (up arrow)
Zoom out.	<b>T</b> or <b>=</b> key or <b>Ctrl</b> + <b>↓</b> (down arrow)
Tilt up.	<b>I</b> or <b>Space</b> key or <b>Shift</b> + <b>↑</b> (up arrow)
Tilt down.	<b>K</b> or <b>Page Down</b> key or <b>Shift</b> + <b>↓</b> (down arrow)
Reset pivot (tilt) to look straight down.	<b>O</b>
Reset view to North.	<b>N</b>
Toggle flight.	<b>F</b>
Zoom map to full extent.	<b>R</b>
Switch target and observer.	<b>S</b>
Speed up flying.	<b>Q</b>
Cancel navigation or any movement.	<b>Spacebar</b>

*Use all three!*

# Explorer Resource Center



<http://resources.esri.com/arccgisexplorer>



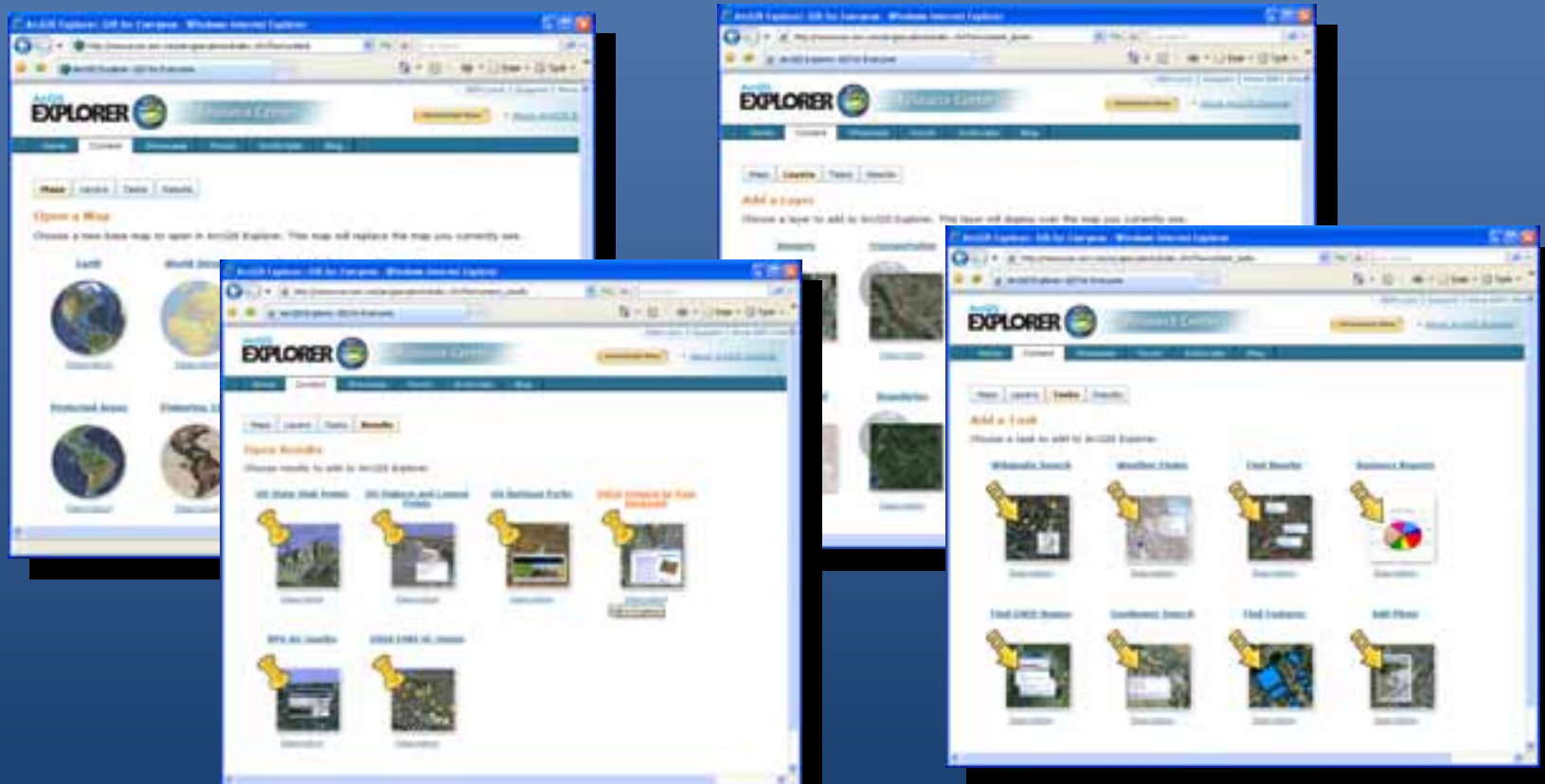
# Resource Center Content Tab

Maps

Layers

Tasks

Results

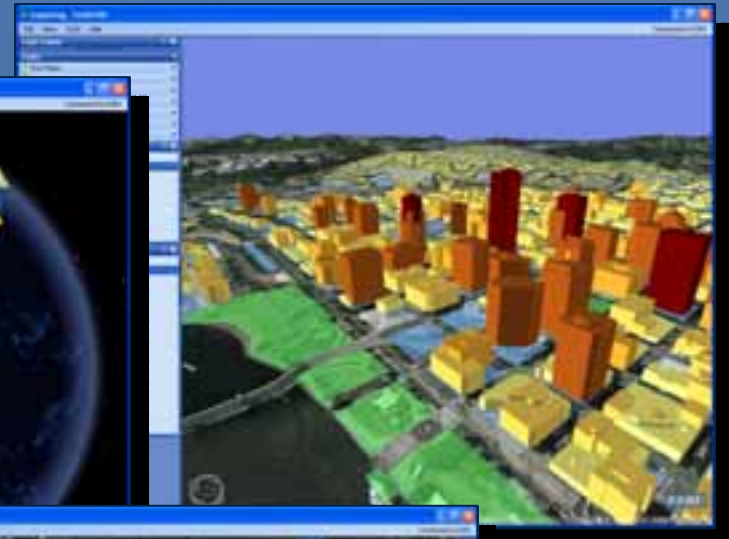
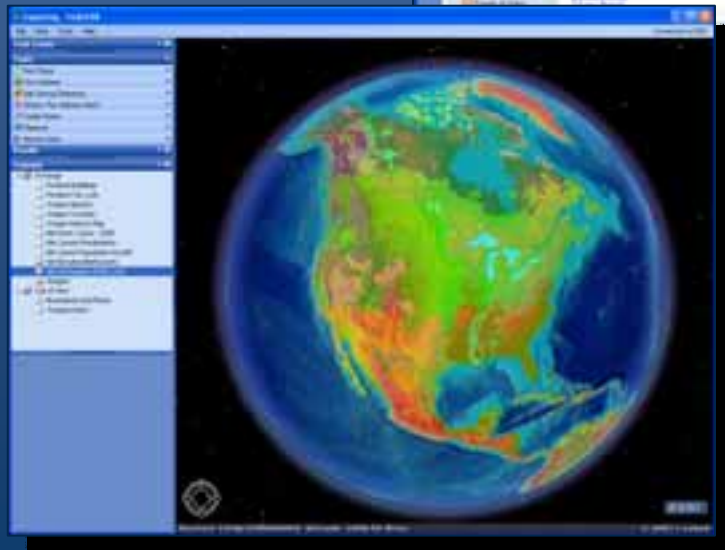


*File > Open > Resource Center*

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# Web-based data

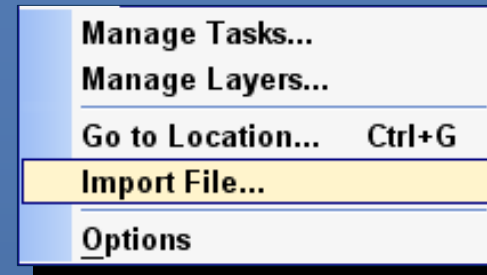
- ArcGIS Server Map and Globe services
- ArcIMS
- WMS
- GeoRSS
- Other...



# Local data

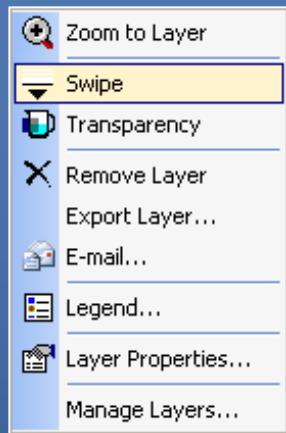
- Shapefiles
- File and enterprise geodatabases
- Rasters (elevation and drape)
- Layer packages\*
- Layer files\*
- Geotagged photos
- Import (text, .csv, GPX)
- KML, KMZ
- Others...

\*New in Explorer 900

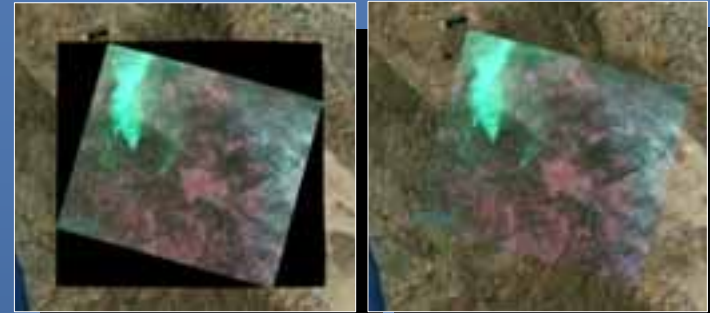
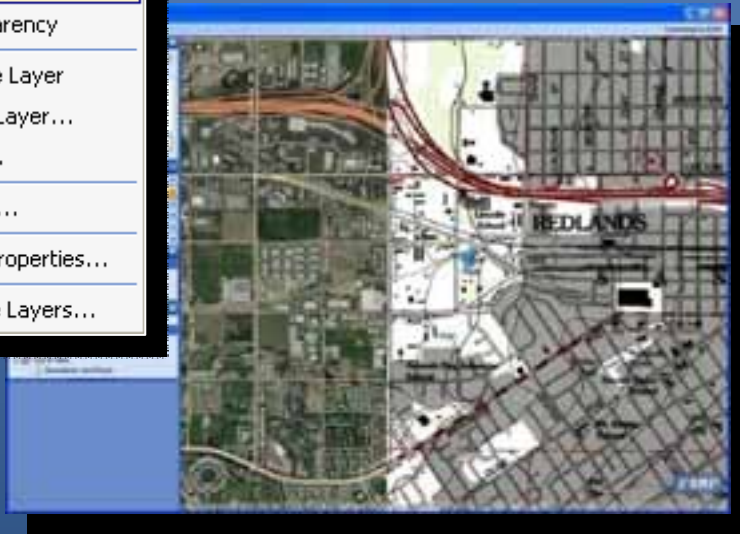




# Layer Properties & Tools



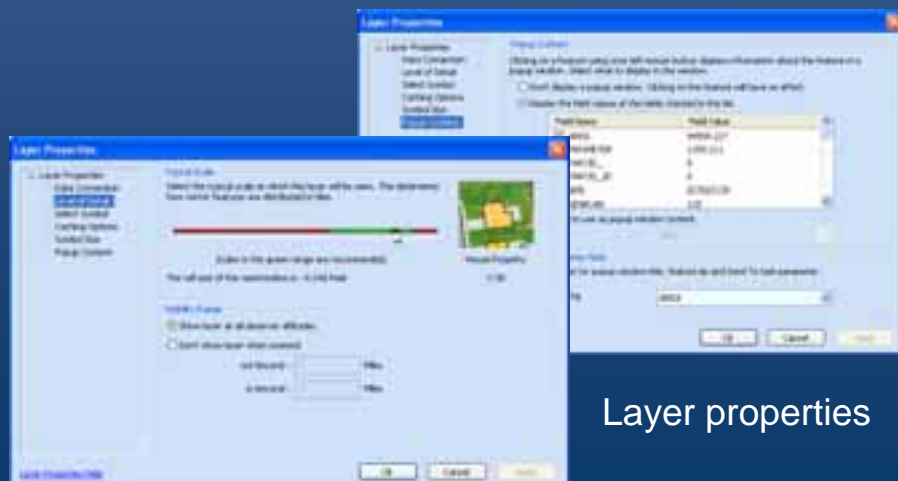
Swipe and Layer transparency



Raster background transparency



Feature tips



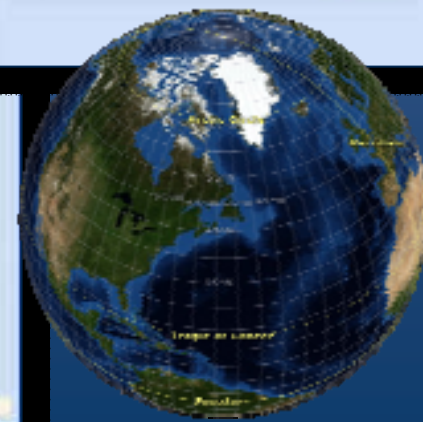
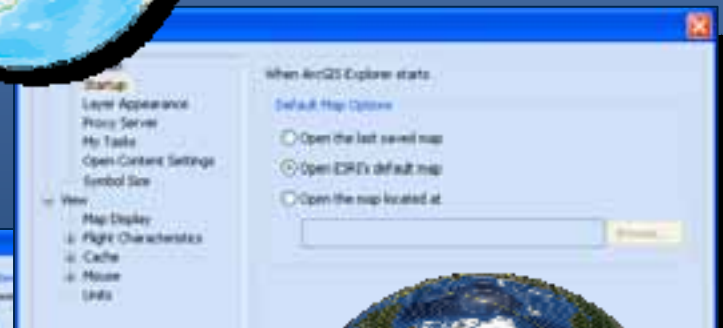
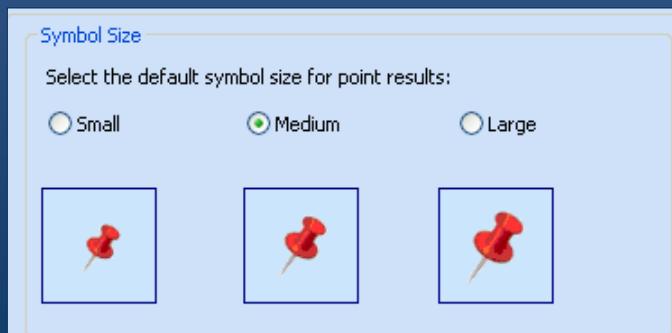
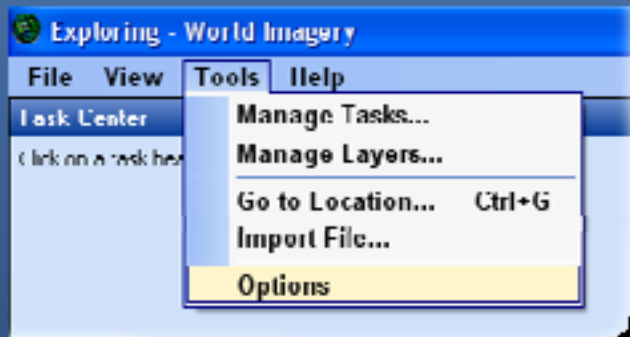
Layer properties



Symbols

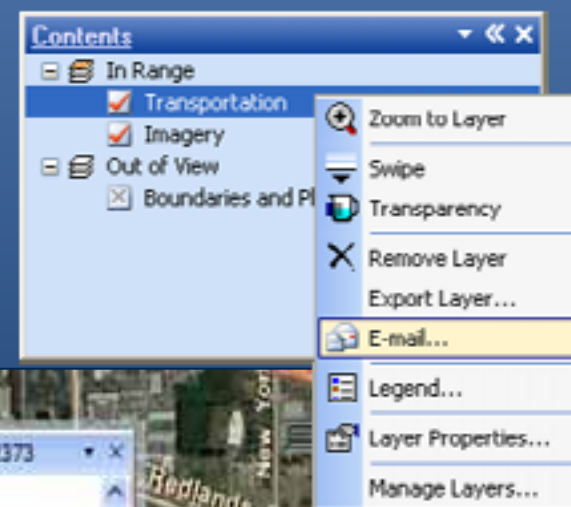
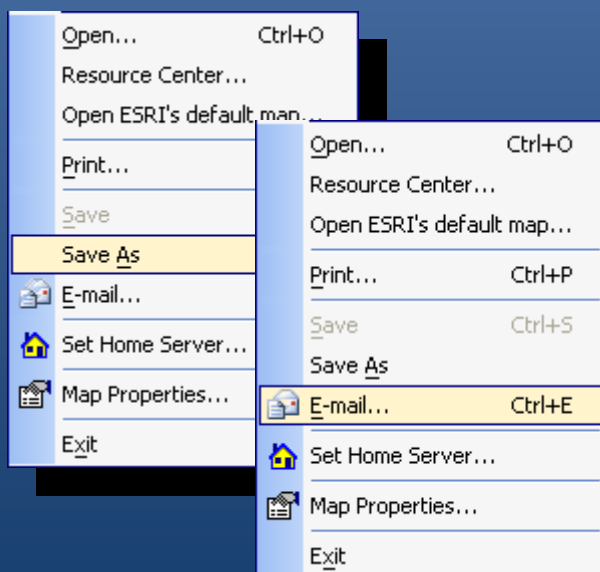
# Your Preferences

- Tune Explorer for the way you work
- Tools > Options
- File > Map Properties



# Saving and Sharing Your Map

- Save entire map (.nmf)  
or export individual elements (.nmf, .nmc\*)
- E-mail entire map, or e-mail individual elements
- Author a presentation\*



\*New in Explorer 900

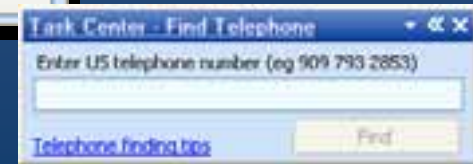
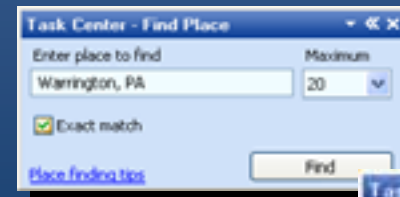


# Demonstration



# What are tasks?

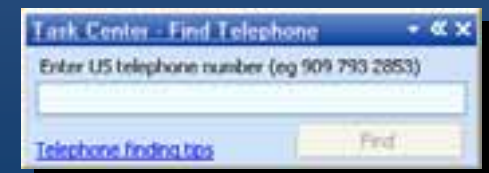
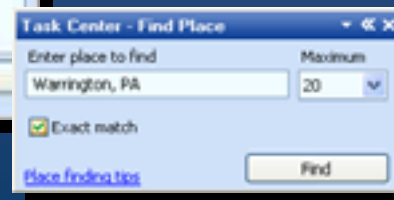
- A tool that can interact with the map and perform actions
- Tasks are
  - listed in the Tasks Window
  - Activated in the Task Center
  - Managed via the Task Manager (Tools > Manage Tasks)
- Explorer has default tasks
- You can add your own tasks
  - From the Resource Center
  - By adding a task NMF
  - By authoring your own



\*Tools and add-ins in Explorer 900

# Tasks

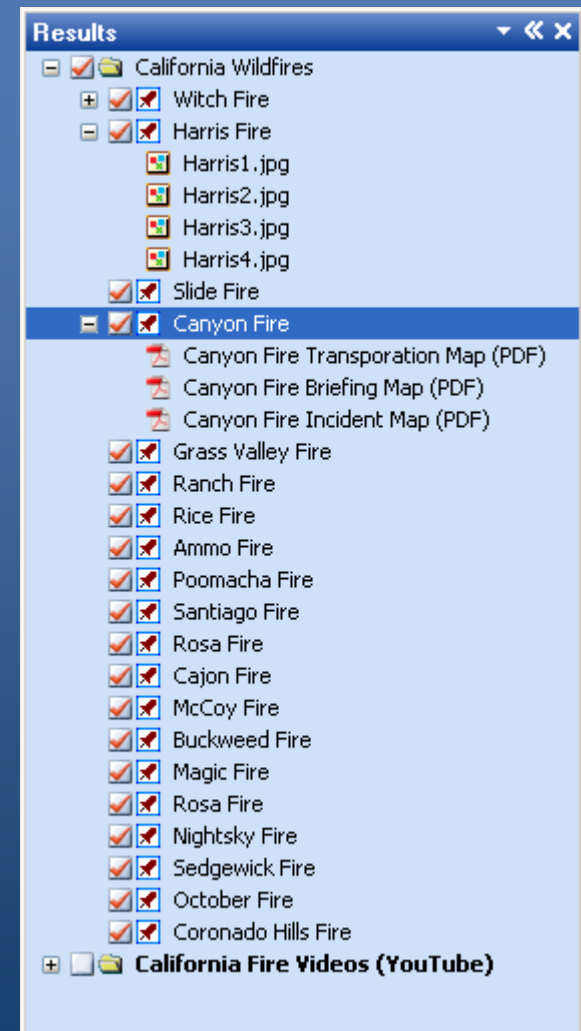
- Server or service based\*
- Default tasks hosted on ArcGIS Online
- Custom tasks can be added
  - GIS (ArcGIS Desktop & ArcGIS Server)
    - No programming necessary
  - Other Web services
- SDK for extending tasks, or building new tasks
  - Examples: Wikipedia Search, Find GNIS Names, etc.



\*Tools and add-ins in Explorer 900

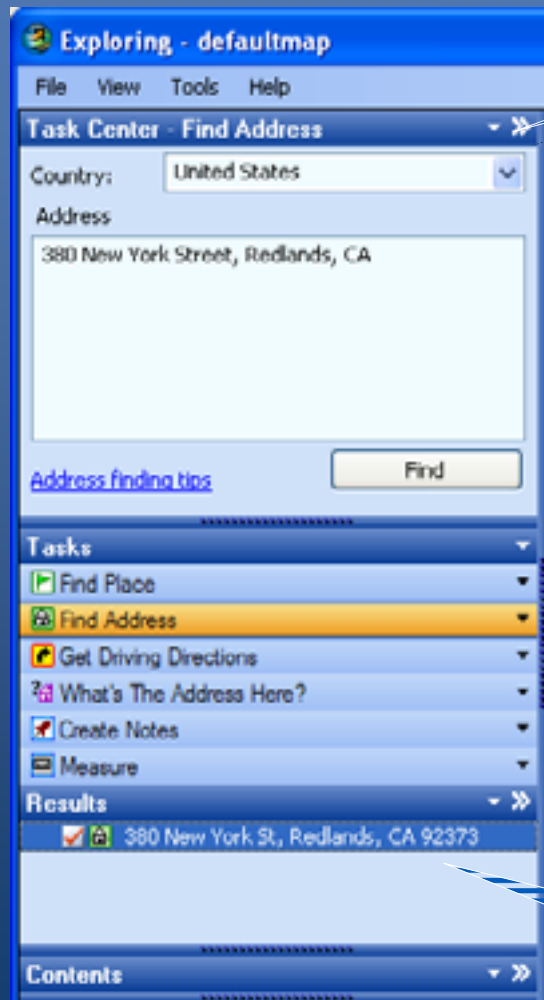
# What are results?

- The result of using a task
- Examples:
  - An address location, a place
- Results have properties
  - Symbol,
  - Popup window,
  - View, etc.
- Results can be
  - Grouped
  - Exported (saved)
  - E-mailed
  - Sent to other tasks

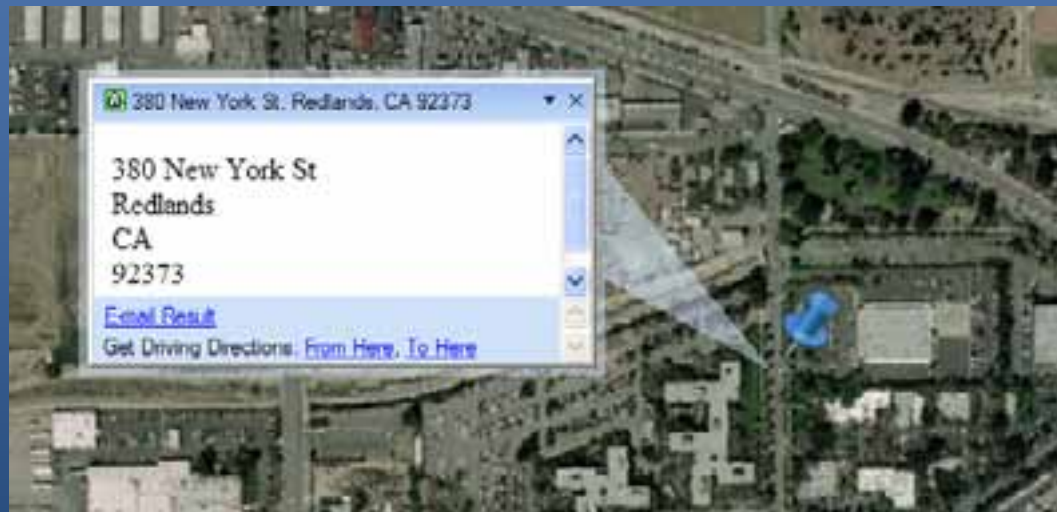


\*All are map items in Explorer 900

# Tasks and Results



Find Address Task



Find Address Task Result

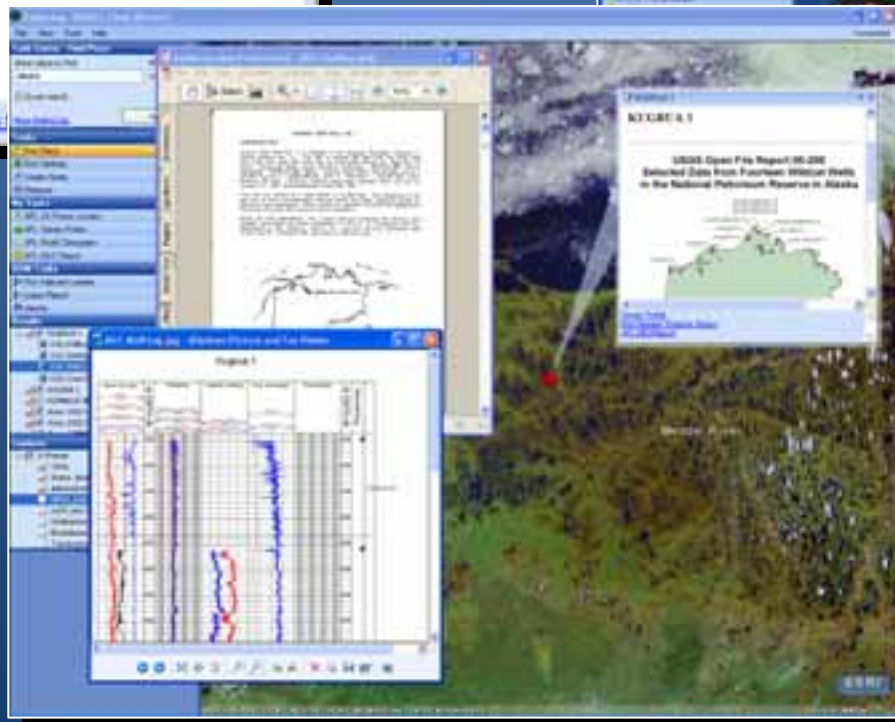
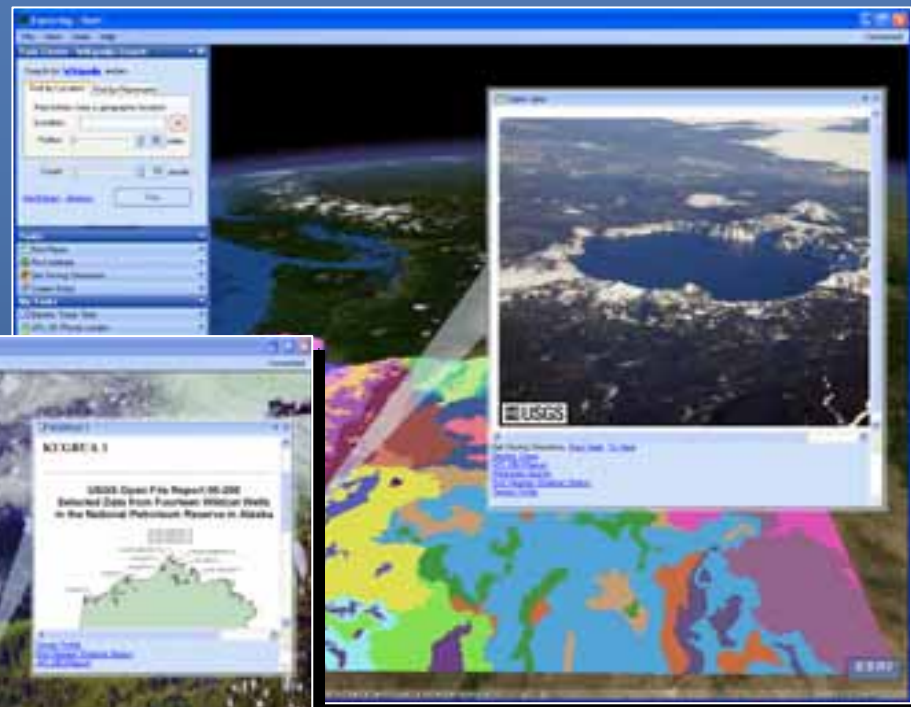
\*Become tools and map items in Explorer 900



# Demonstration

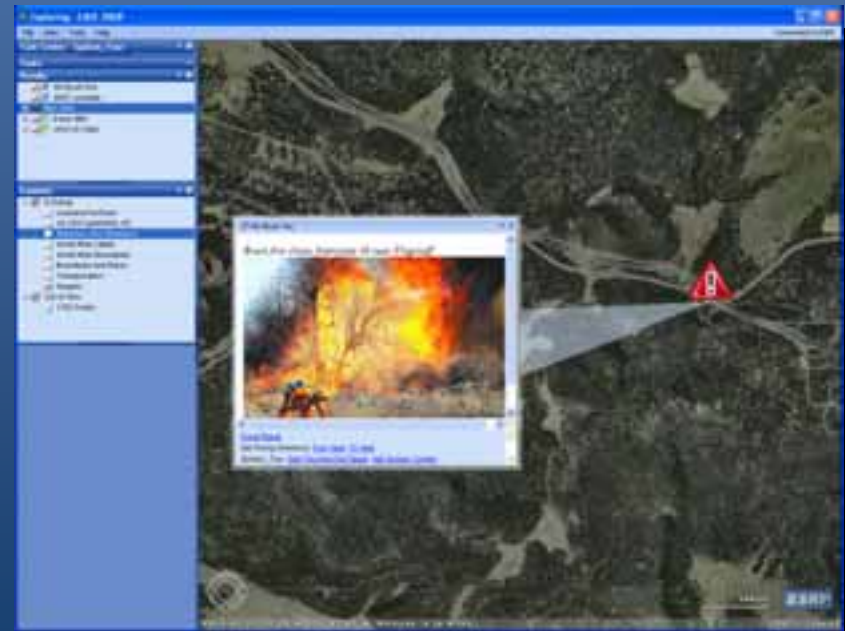


# Create notes



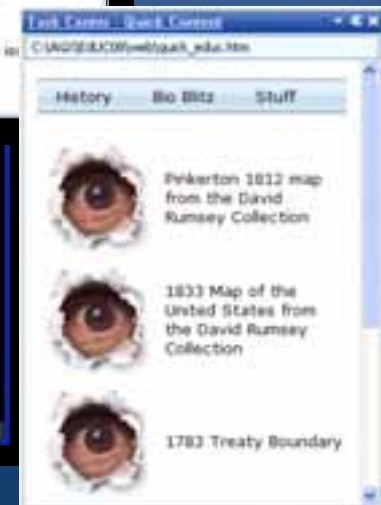
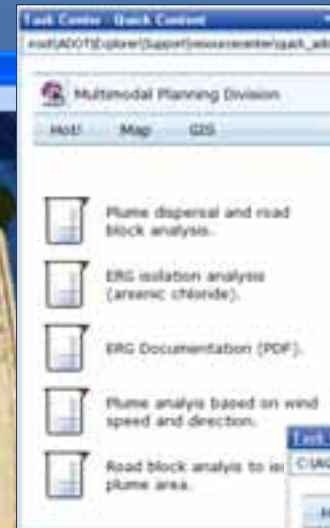
# Results and Popups

- Auto-zoom to results when added (if view property set)
- Popup window will automatically show when saved or E-mailed with popup open



# Quick Content

- Add map content from Web document





# Home

- Control default map, startup screen, skin, tasks, resource center, etc.



# Web browser

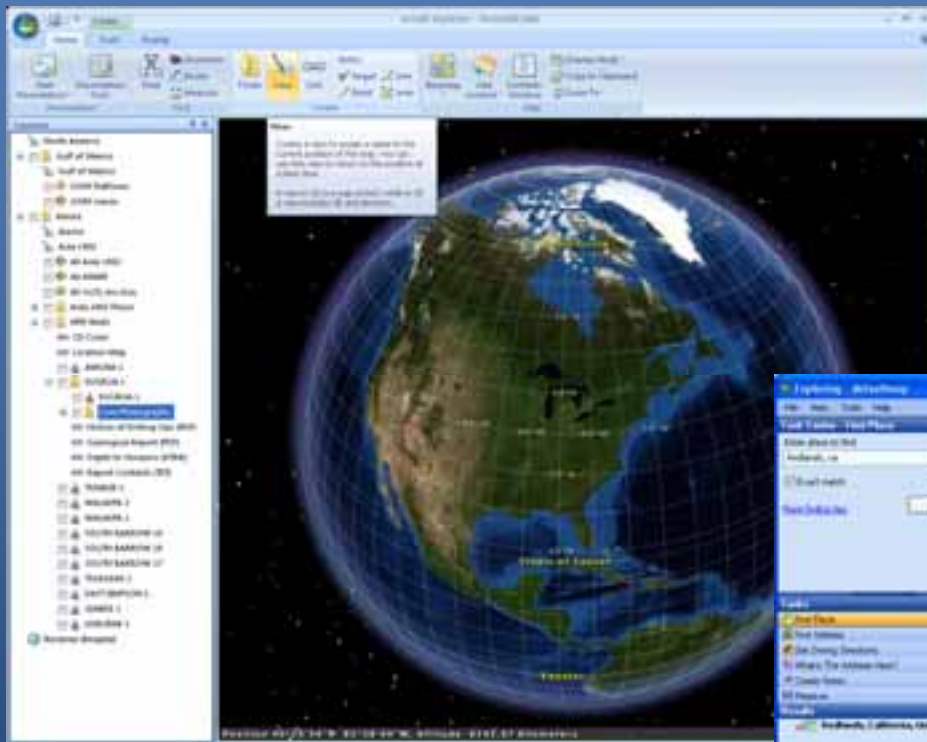
- Explorer can be activated or embedded in a browser
- Similar to Acrobat Reader



# Demonstration



# ArcGIS Explorer 900 and 500





# ArcGIS Explorer 900 and 500

- Can exist side by side
- Functionally overlapping, but different implementations
- Same data support
  - 900 supports additional types
- 500 NMF map files can be opened in 900
- 500 NMF results and layers can be opened in 900
  - 900 introduces NMC files
- Tasks become tools
  - Recompile/build with 900 SDK

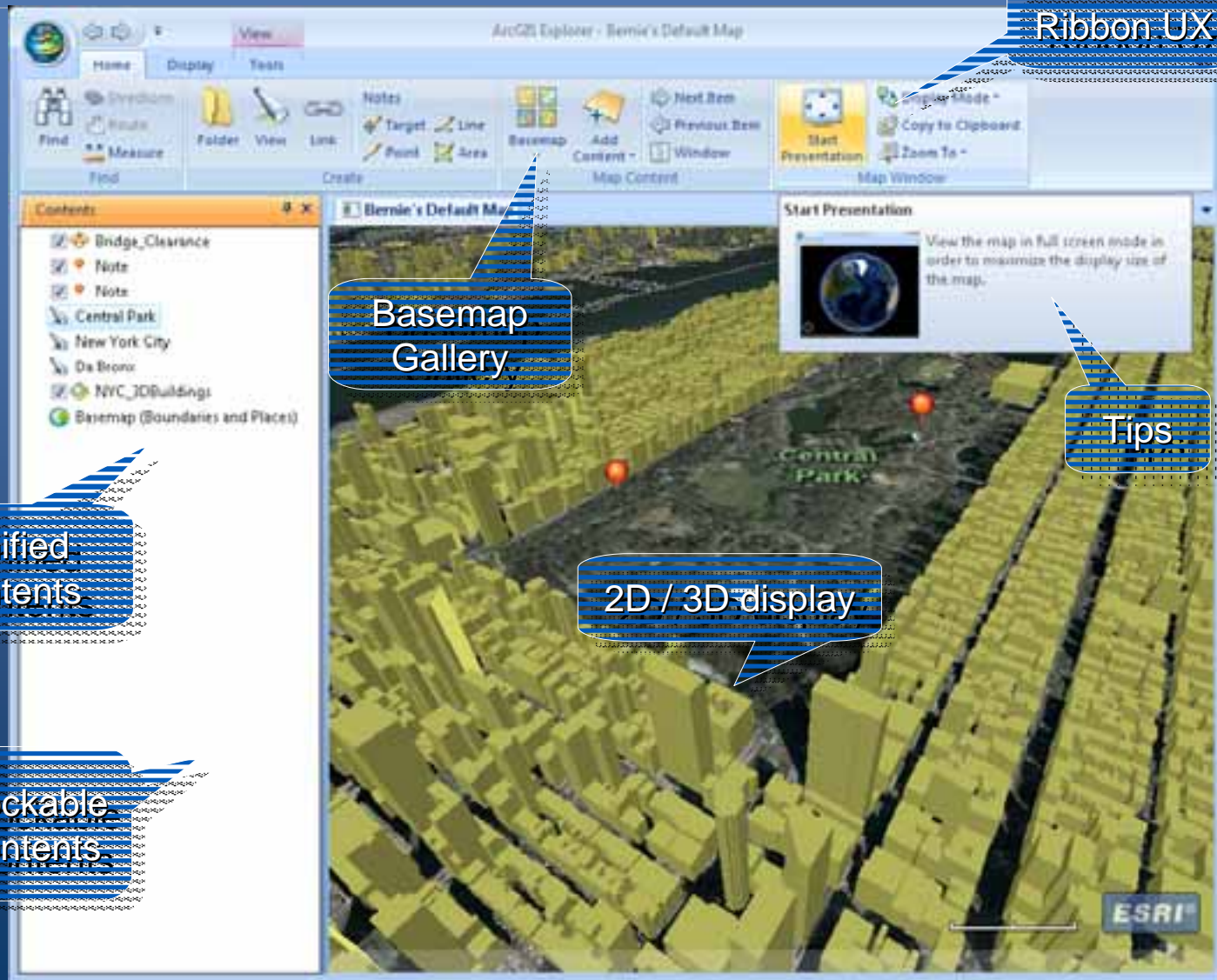
# ArcGIS Explorer 900

## Themes for this release

- New user experience
  - Fully modernized, easy & intuitive
  - Integrated 2D/3D display
- Enhanced presentation capabilities
  - An ideal way to communicate geographically
- Easier Customization (application configuration)
  - Easy to tailor for specific audiences or uses
  - Easy to administer
- Better Integration
  - ArcGIS Online
  - Layers and layer packages

# ArcGIS Explorer 900

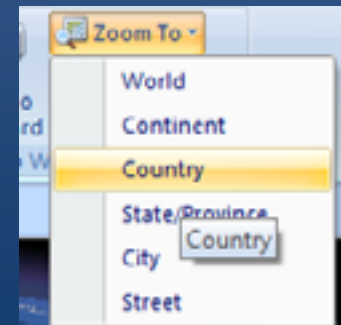
Easy to use



# ArcGIS Explorer 900

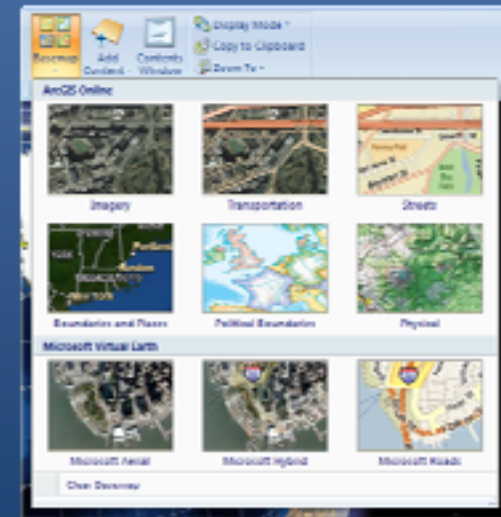
## New Ribbon User Interface

- Improved usability, more intuitive
- Better organization and management of tools & resources



# Content

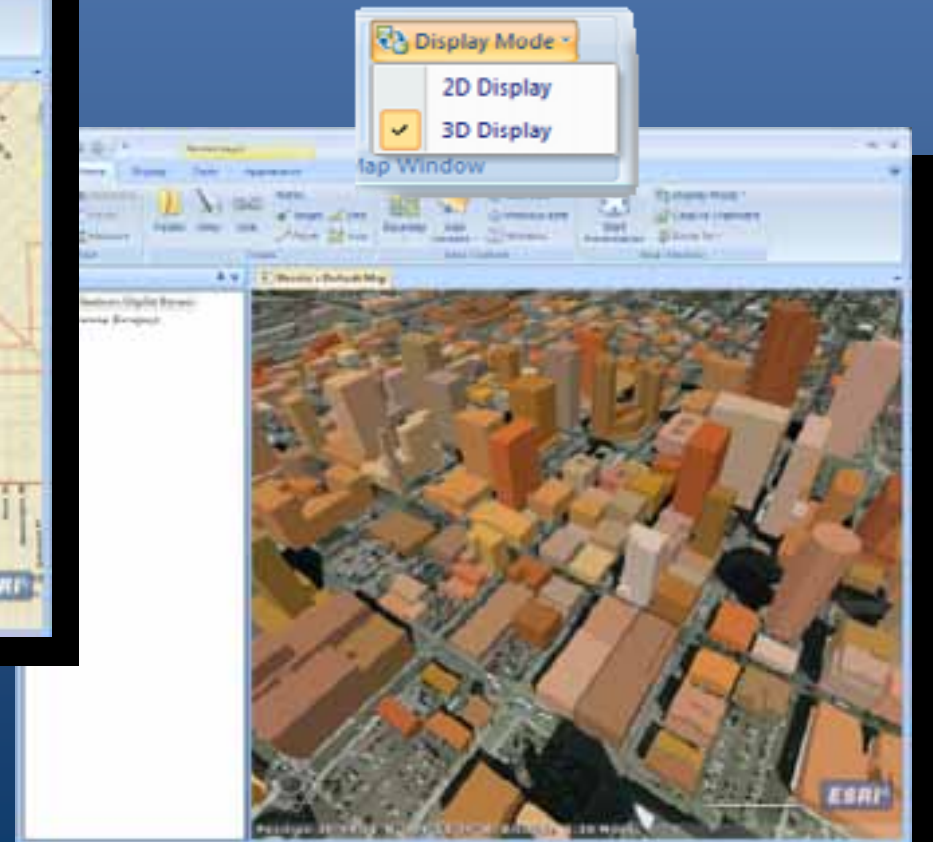
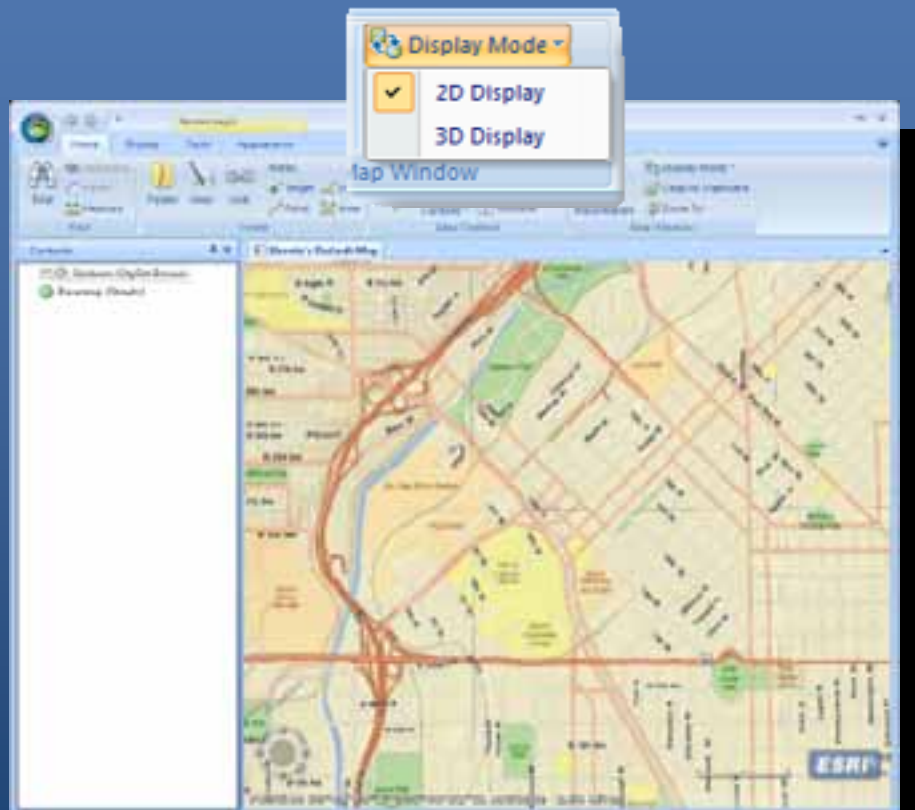
- [illegible]





# ArcGIS Explorer 900

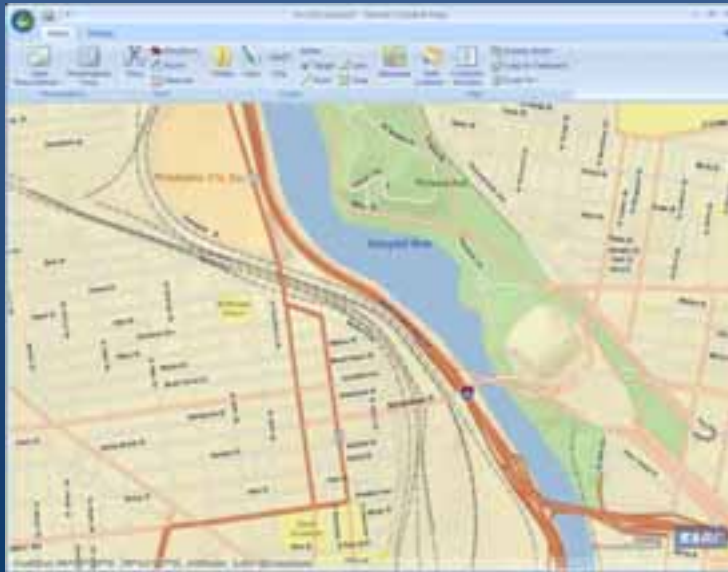
## Integrated 2D/3D Display



# ArcGIS Explorer 900

## Enhanced data

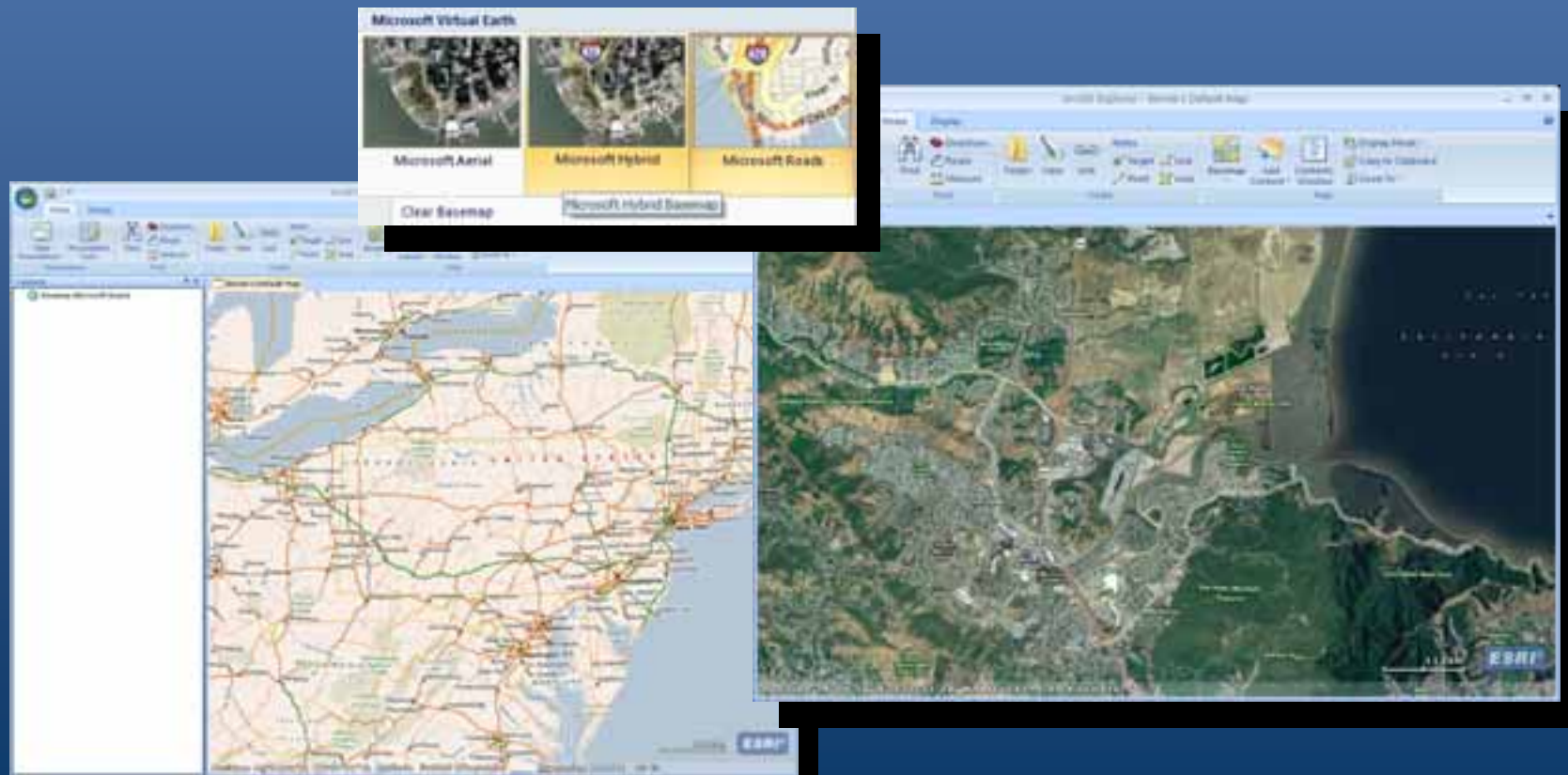
- Better performance
- New types (layer files and packages)
- Improved KML/Z
  - KML contents
  - Regionated KML



# ArcGIS Explorer 900

## Virtual Earth services

- Free with ArcGIS Desktop
- Subscription for standalone use



# Demonstration

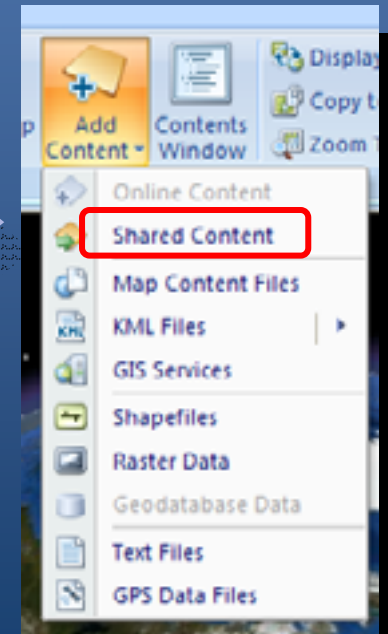
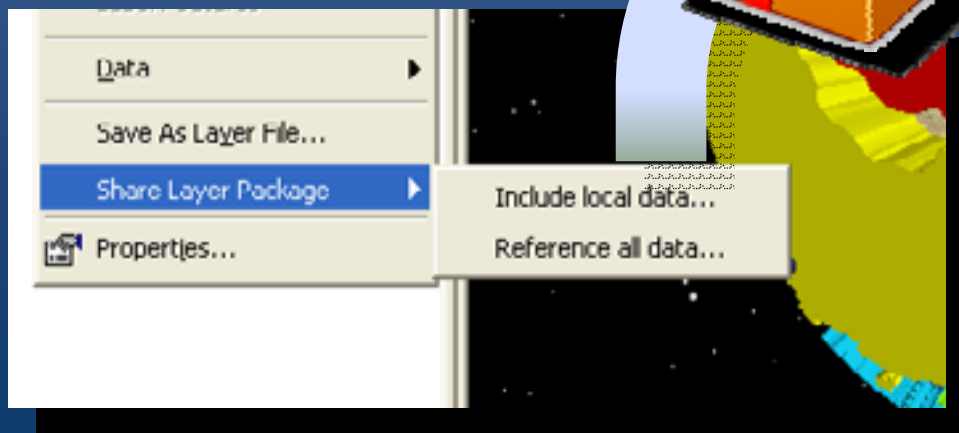




# ArcGIS Explorer 900

## ArcGIS 9.3.1 Layer Packages

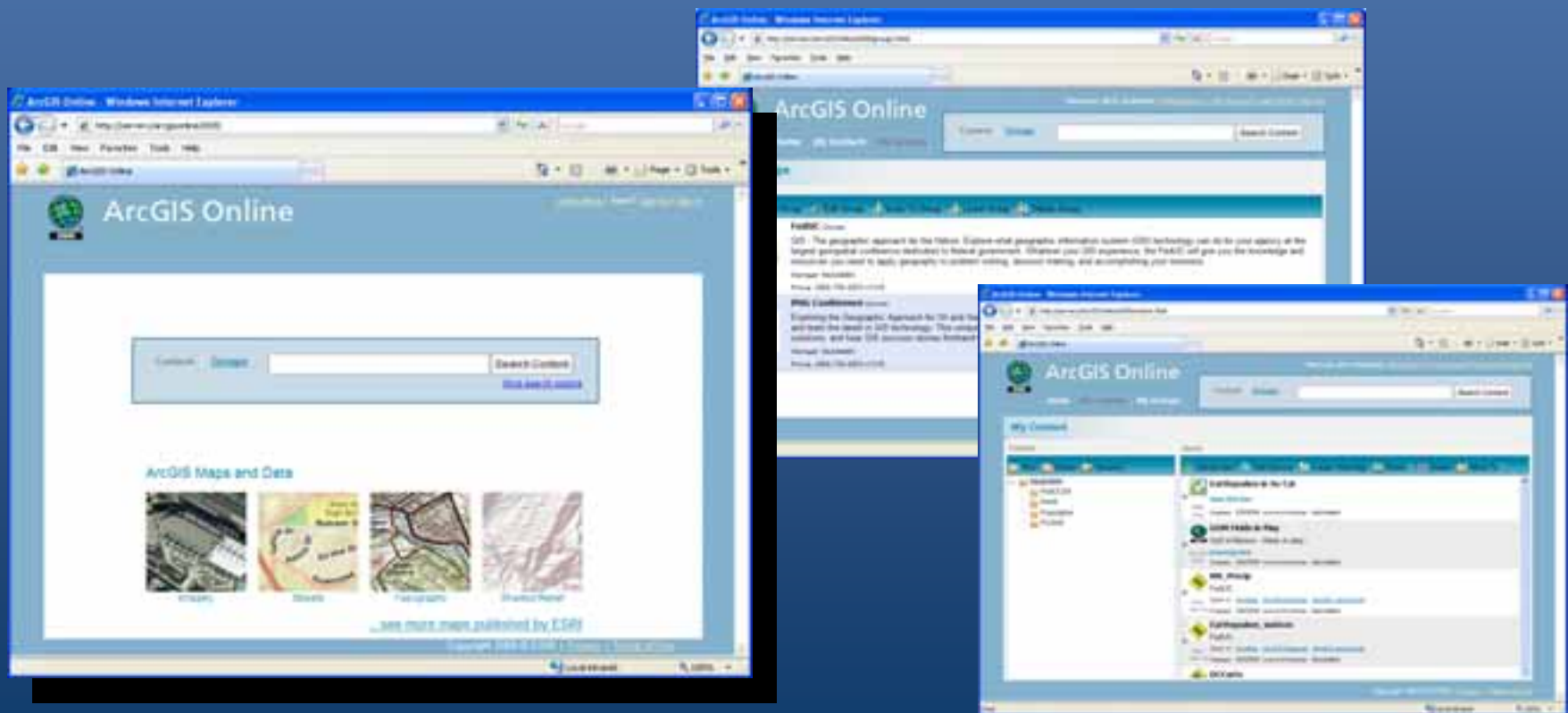
- Author and package using ArcGIS Desktop (ArcMap and ArcGlobe)
- All data types, including services
- By reference, or include data in package



# ArcGIS Explorer 900

## ArcGIS Online Sharing

- Search, share, organize, and use data





ArcGIS Online

ArcGIS Explorer is connected to  
ArcGIS Online

ArcGIS Online provides  
Explorer's basemaps and layers,  
and powers its tools

Default maps &  
galleries



ArcGIS Explorer



ArcGIS Online

ArcGIS Online provides search and discovery capabilities for additional content

Search / Discover / Use  
layer packages & more

Default maps &  
galleries



ArcGIS Explorer

ESRI



ArcGIS Online



ArcGIS Server

Local / Enterprise  
Content



ArcGIS Explorer

ArcGIS Online is complemented by  
GIS Servers and local / enterprise content



# Demonstration



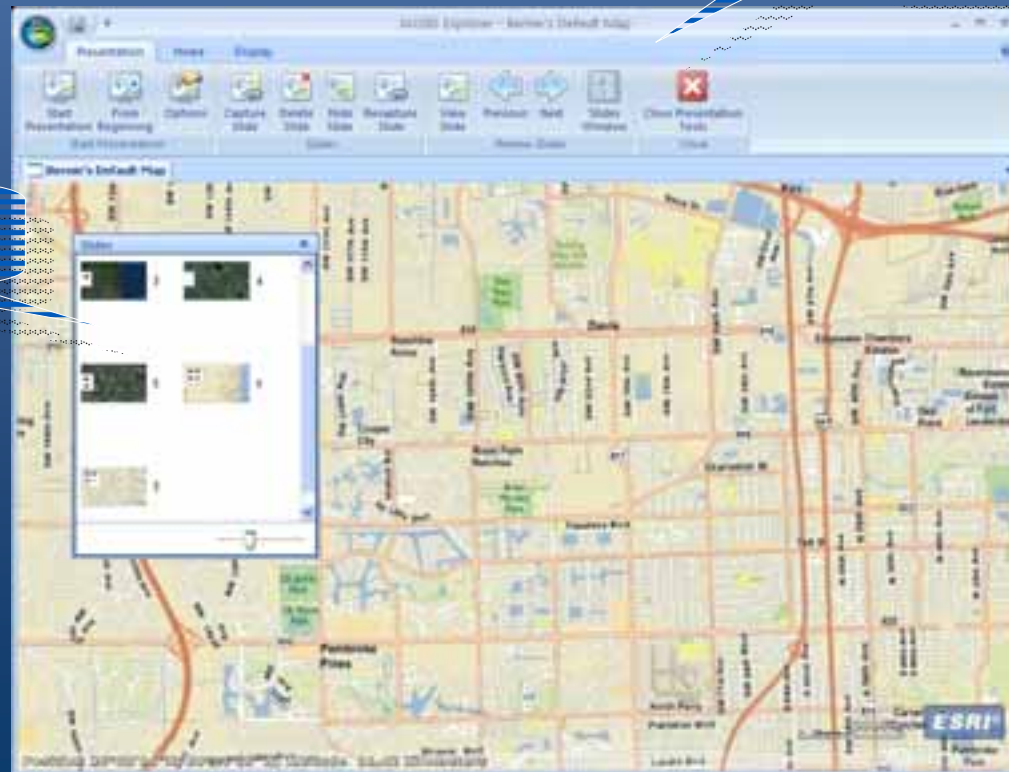
# ArcGIS Explorer 900

## Presentations

- Author, present, share
- Control layer visibility, popups, etc.
- Full-screen display

Presentation  
Authoring tools

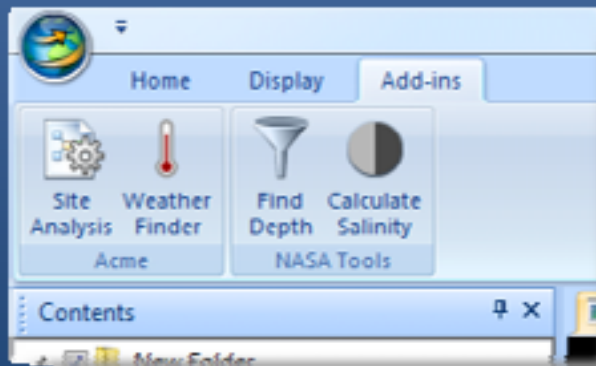
Slides Window



# ArcGIS Explorer 900

## Home and Application Configurations

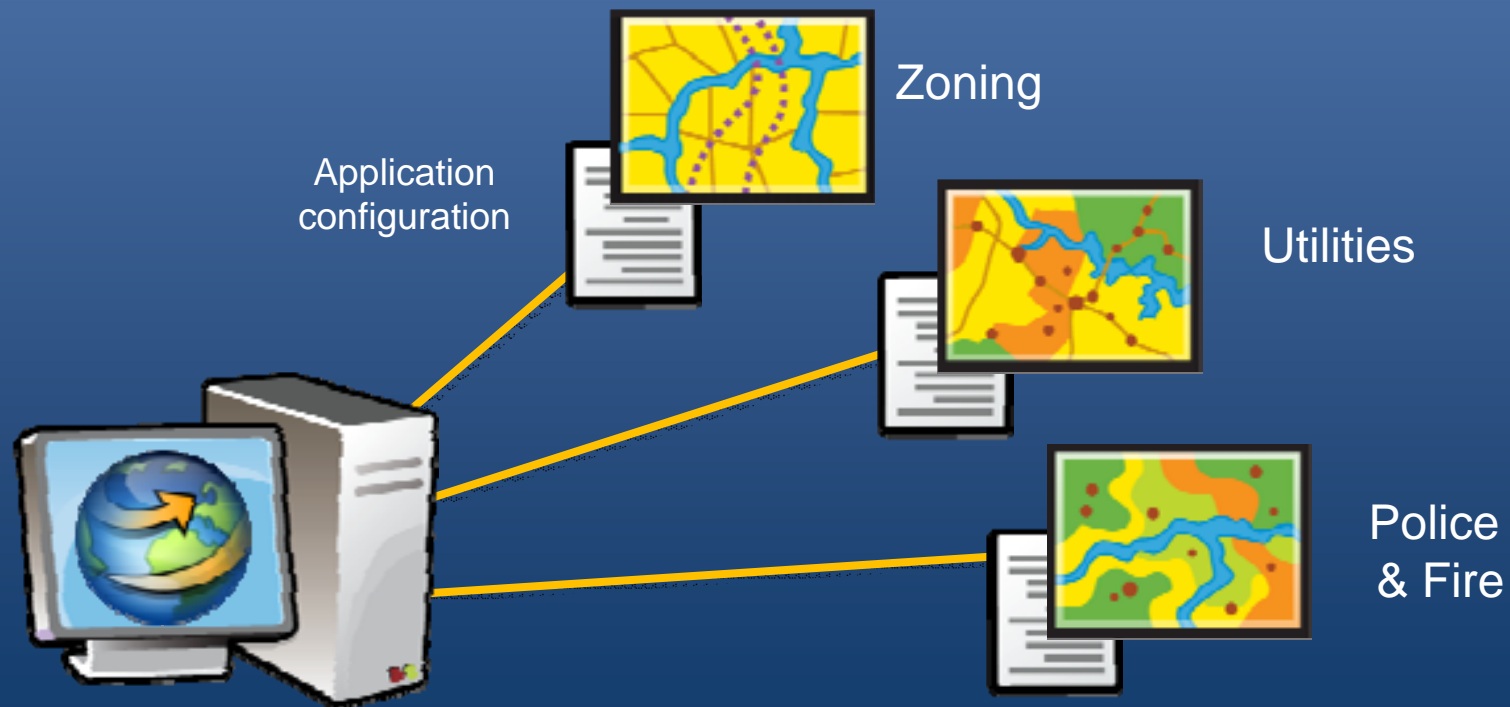
- Configure ribbon, tabs, tools
- Logo, north arrow, startup banner
- Startup maps and basemap galleries



# ArcGIS Explorer 900

## Home and Application Configurations

- No programming required
- Easy to centrally manage and deploy throughout an organization





# Demonstration



# ArcGIS Explorer 900

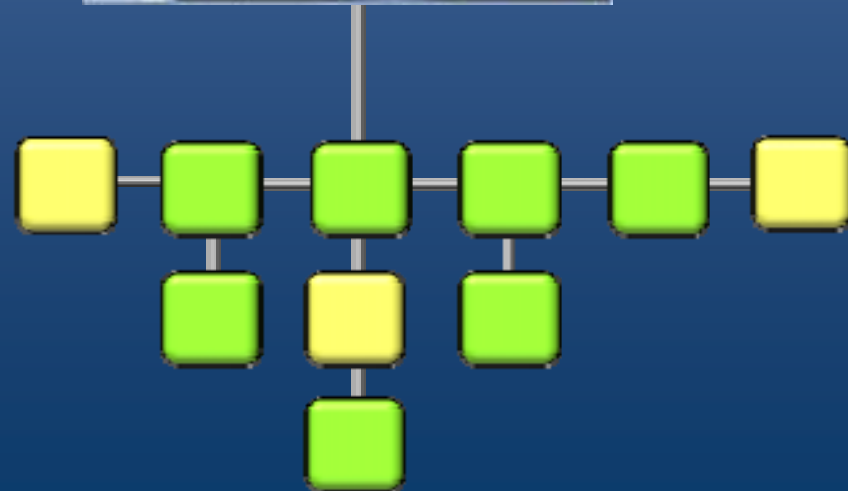
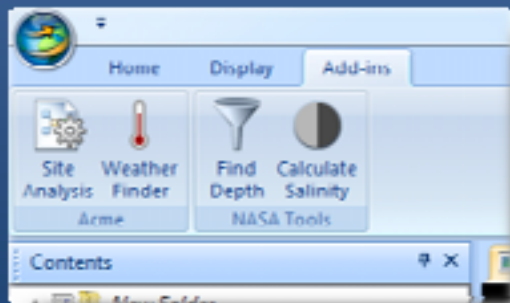
## Localization

- Multiple languages supported
  - User interface
  - Help
  - Resource Center



# ArcGIS Explorer 900 SDK

- Powerful object model for developers
- Create new tools, add-ins



# Key Points



- Free, easy to use
- Supports lots of different data
- Can add your own data
- Customizable, extensible
- Use for
  - exploration, visualization
  - authoring, sharing
  - presentation, communication
- Fits into a wide variety of workflows and patterns

*For geographic information users  
and GIS Analysts that want to provide broader  
access to GIS data and capabilities*



**For more information contact:**

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