Agenda

- The ArcGIS System
- Getting started with ArcGIS templates
- Configuring applications for the web
- Enabling field information with configurable mobile applications
- Integrating ArcGIS for Sharepoint
ArcGIS 10 — A Complete System

Easier
More Powerful
and Everywhere

• Discover
• Create
• Manage
• Visualize
• Analyze
• Collaborate

Cloud
Enterprise
Local

Desktop
Mobile
Web
ArcGIS is an online system

Browser
- ArcGIS.com
- Viewer

Explorer
- Online

Mobile
- iPhone
- iPad
- Android

Desktop
- Explorer
- Desktop

Developer
- JavaScript
- Silverlight
- Flex

ArcGIS Online

ArcGIS.com

ArcMap
ArcGIS Online includes

- **Maps**
  - Basemaps, maps, layers
  - Map templates

- **Applications**
  - Web & mobile
  - Code and application templates

- **Tools**
  - Locators, gazetteers
  - Tasks

- **Software**
  - ArcGIS Web mapping APIs
  - Online applications (e.g., BAO, Explorer Online)
ArcGIS Online Maps

- **ESRI Maps**
  - Developed and maintained by ESRI
  - Imagery, streets, demographics

- **Community Maps**
  - Jointly developed by ESRI and ArcGIS users
  - Topographic map, International street

- **User Maps**
  - Developed and maintained by ArcGIS users
  - May be managed (hosted) by user or ESRI
Map Templates

- Contain best practices for publishing your data
- Are used in ArcGIS Online maps
- Are well designed for Web and mobile applications
- Are downloadable, ready to use, plug-in your data

Local Government Topographic

World Topographic Map
What is included with a Map Template?

A collection of resources for producing a well-designed map

- Map document (MXD file)
- Documentation
- Geoprocessing tools or models
- Example Web applications
- Sample data (geodatabase)
- Style files and layer or map packages
Industry focused templates

• Contain maps and applications that will help you get started in a specific industry
  - Community Maps
  - Defense & Intelligence
  - Electric & Gas
  - Hydro
  - Local Government
  - Roads & Highways
  - Telecommunications
  - Water Utilities
Geodatabase

- Contain best practices for geodatabase design
- Each data model includes…
  - An example case study implementation
  - A small sample database
  - A geodatabase template for importing the data model
  - A white paper explaining the design
  - Data model poster
  - Tips and tricks on how to utilize the data model from the case study
Demo
Configurable web applications

ArcGIS.com Viewer

Open Web APIs

Silverlight
Flex
JavaScript

ArcGIS Explorer

ArcGIS Viewer for Flex

ArcGIS Mapping for SharePoint
ArcGIS.com Viewer

- Allows users to create and share maps
  - Use any accessible ArcGIS Server
  - Embed maps from ArcGIS.com into your website
- Maps are hosted on ArcGIS.com
- Built using ArcGIS API for JavaScript
Demo
ArcGIS Viewer for Flex

- **Downloadable Web application**
  - Installed and maintained on-premise
- **Configurable application**
  - Configure out-of-the-box widgets
  - Download and configure user widgets
  - No programming experience required
- **Can also be customized**
  - Customize existing widgets
  - Create and distribute your own widgets
  - Advanced programming skills required
- **Built using ArcGIS API for Flex**
Configuring ArcGIS Viewer for Flex

- Two types of XML configuration files:
  - Application level
  - Widget level
- Use application configuration file to specify:
  - Basemaps
  - Operational layers
  - Widgets
- Use widget configuration files to specify:
  - Widget-specific parameters
Enabling your mobile workforce

• Improve field productivity
  - Use maps to make decisions
  - View location of real-time information
  - Route and navigate using maps

• Maintain operational data
  - Inspect assets
  - Collect accurate locations
  - Capture observations
  - Record events

• Facilitate accurate operational awareness
  - Real-time locations
  - Wireless synchronization
Mobile applications for the non-developer

- Light weight devices
  - ArcGIS for iOS
  - BAO for iOS
  - ArcGIS for Windows Phone
  - ArcGIS for Android

- ArcGIS Mobile Project Center
  - Configure ArcGIS Mobile applications
Configurable mobile application on ArcGIS.com
ArcGIS Mapping for SharePoint 2.0

- Enables the creation, display, and sharing of information within SharePoint
- Includes a configurable web part
- Uses data from
  - ArcGIS Server, ArcGIS Online, Bing Maps, SharePoint List & Form Libraries, SQL Server (BCS/SDS)
- Integrated with SharePoint 2010
Access tabular information

- Query features
- Select records
- Render features using attribute values
  - Class breaks
  - Unique values
Customizable run-time

- Configure Items on SharePoint’s Ribbon
  - Allow access to tools, map configuration, and ribbon elements
  - User functionality is defined by configured features
Locate Addresses Workflow

- Used to find the location of addresses stored in SharePoint lists
- Create a SharePoint workflow to locate addresses
- Can be used with ArcGIS Online or your Geocoding Service
Locate Addresses Workflow

- **Automatic updates**
  - When a list item is changed or added

- **Interactively select the best address candidate match**
  - Using the Location Field

- **Track the status of candidate selection**
ArcGIS Mapping Administration
Extending ArcGIS Mapping for SharePoint

• Geoprocessing
  • Add geoprocessing tools to the interface
  • Samples for common tools available online

• Extend the Web Part using the ArcGIS API for Microsoft Silverlight
Demo
Summary

• ArcGIS is a complete system
• Templates provide a starting point for creating maps and applications
• Configurable web application help you deploy applications faster
• Configurable mobile applications enable field maps and data collection
• SharePoint delivers maps and workflows to non-GIS users within you organization
Questions