ArcGIS for Windows Mobile - An Introduction
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What we will cover today

- Mobile GIS
- What is ArcGIS for Windows Mobile
- How does it work
- Demos
- Summary
Mobile GIS
Mobile GIS
Extends the reach of ArcGIS from the office to the field

Key benefits
- Improve efficiency
- Increase accuracy
- Seamless flow of information
- Make more informed and timely decisions

Replace paper map books
Map infrastructure
Inspect Assets
Respond to events
ArcGIS
Esri Strategy toward Mobility

- Extend the reach of Web GIS
- Platform agnostic
- Native apps/Web apps
- Developer Toolkits for partners
<table>
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<th>Supported Platforms and Esri Apps</th>
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<tr>
<td><strong>Windows Mobile</strong></td>
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<tr>
<td>ArcPad</td>
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<td>ArcGIS for Windows Mobile</td>
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<td>ArcGIS for Smartphones and Tablets</td>
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<td>Collector for ArcGIS</td>
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<td>Operations Dashboard</td>
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<td>Explorer for ArcGIS*</td>
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The Windows Mobile platform
A strategic platform

- Rugged devices offer advantages
  - Truly rugged (IP rated)
  - Battery life
  - Positional accuracy
  - Sensor integration
- Vendors still releasing new devices
What is ArcGIS for Windows Mobile
ArcGIS for Windows Mobile
Ready-to-use field GIS apps

- Rapid deployment of maps, apps and project
- Task-based, workflow driven user experience
- Disconnected
- Synchronization of data between field and office
- Focused mobile applications
- High accuracy data collection
- Users have little GIS training
- Scalable to large field workforce
ArcGIS for Windows Mobile
ArcGIS Runtime SDK for Windows Mobile

- Coarse-grained .NET API
- Extend COTS application
- Create focused Mobile GIS applications
- Embed ArcGIS into existing line of business applications

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<th>Tuesday 12:30pm - 1:00pm</th>
<th>Wednesday 1:30pm - 2:00pm</th>
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<tr>
<td>Building Focused Field Apps for Rugged Devices with ArcGIS for Windows Mobile</td>
<td>Demo Theater - Apps 1 Exhibit Hall B</td>
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<td>Extend The ArcGIS for Windows Mobile Field Apps</td>
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Bavarian State Forest Administration

- Replace paper-based workflow with task-driven Mobile GIS process
- In 2012 completed twice as many surveys (12,000)
- 1500 seat deployment to Foresters
- Centralized deployment w/offline support
- Solution via INTEND using Windows Mobile SDK
Trimble Positions

- Enhances data collection capabilities
  - Ensures Positional accuracy
  - Supports post-processing of GPS positions
  - Enables VRS/RTC connection to corrected positions
  - GeoExplorer series, Juno series and Nomad devices

- ArcGIS for Windows Mobile
  - Extends ArcGIS field app
    (Windows Mobile platform only)

- ArcGIS for Windows Mobile SDK
  - Trimble GPS construction methods
  - Post-processing capability

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<th>Tuesday</th>
<th>Trimble GeoCollector for ArcGIS: An Introduction</th>
<th>Demo Theater - Apps 1 Exhibit Hall B</th>
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Windows Mobile Field Application
How does it work?
Windows Mobile workflow and capabilities

1. Create maps and forms
2. Author and configure projects
3. Download and use on devices

- Package and deploy projects to device
- ArcGIS Online
- ArcGIS Server
- Publish services
- Create offline datasets

Create/edit GIS data and synchronize changes
Create information models
Windows Mobile workflow

• Desktop via GP tool
  - Create Mobile Cache Tool
  - Synchronize Mobile Cache Tool
• Server via mobile service
• Online via hosted feature service
Create Maps and forms
Leverage the ArcGIS System

- **Design your data model for field use**
  - Coordinate system for spatial data
  - Field definition for information to be captured
  - Define transaction model (single/multi-user)

- **Author Maps and map layers**
  - Define and build base map content (orthophotos, landbase, etc)
  - Author map layers to define “data dictionary” for collection
Author and configure projects
Leverage the ArcGIS System

- Create projects for Field Applications
- Configure workflows and data
- Project packaging
- Project verification
- Publish and share projects
  - Local
  - On-Premise Server
  - Cloud (ArcGIS.com)
Field Applications

- View and identify features
- Measure distance, areas, features
- Adhoc and pre-defined queries
- GPS/GNSS data collection
- High accuracy collection
- Forms centric editing
- Intelligent field types driven by data model
- Field validation
- GPS logging
- Add routing stops by addresses, POIs or Intersections (Windows devices)
Create Maps and Forms
Mobile Project Center
Windows Field Application
Summary

• Configurable workflows
• High accuracy GPS
• Custom forms
• Fully disconnected
• ArcGIS Online/ArcGIS Server
• Packaging and Deployment
• Users typically need little training
  - .NET/CF API for Windows Tablet/Mobile
  - Applications are extensible!

Windows 7/8 Laptops
Windows Mobile handhelds
Licensing

- **ArcGIS Server Advanced Enterprise**
  - Unlimited deployments

- **ArcGIS Desktop**
  - Includes one deployment

- **Deployment packs of 5 or 50 are available**
  - ArcGIS Server Advanced Workgroup and Standard Enterprise
  - Desktop
More information

• Application Help (http://resources.arcgis.com/en/help/windows-mobile/ )
• SDK Help (http://resources.arcgis.com/en/help/windows-mobile-sdk/concepts/#/01sp000000220000000220000000 )
• Discussion Forum (http://forums.arcgis.com/forums/26-ArcGIS-for-Windows-Mobile )
• Custom Care Portal (https://customers.esri.com/index.cfm?event=login.show&go=portlet.dspTasks )
Thank you...

• Please fill out the session survey:

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Paper – pick up and put in drop box
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Understanding our world.