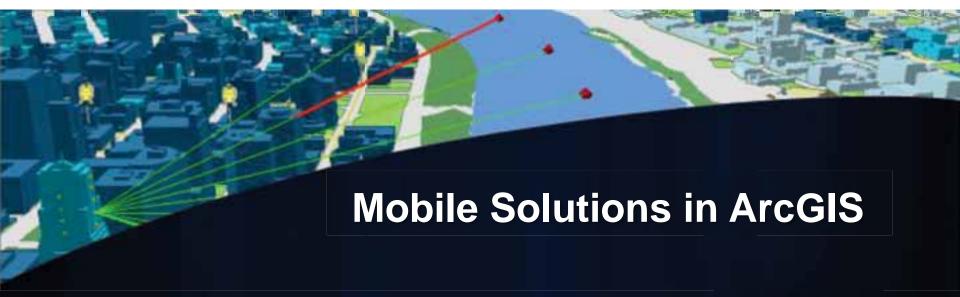
Esri California · Hawaii · Nevada Regional User Group Conference

February 23–24, 2011 · Esri · Redlands, CA



Justin Fan



Agenda

- Introducing Mobile GIS
- Esri Mobile GIS solutions
- Selecting the right Mobile GIS solution
- Resources
- Q&A

Introducing Mobile GIS

What is Mobile GIS?

Extends the reach of ArcGIS from the office to the field

- With a Mobile GIS solution you can
 - Carry your maps to the field
 - Collect and update geographic Information
 - Track and geo-collaborate





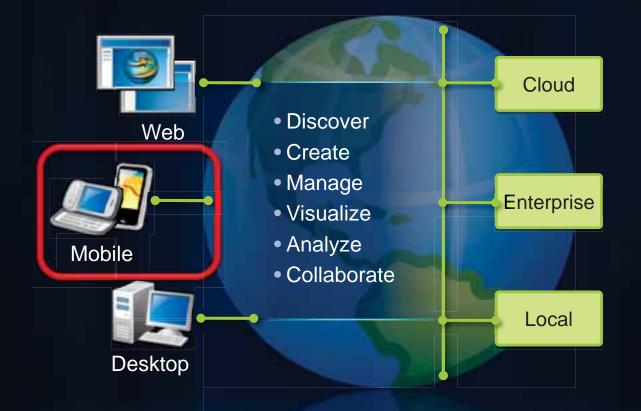
What are the Benefits of Mobile GIS?

- Replaces paper based workflows
- Improve efficiency and accuracy of field operations
- Rapid data collection and seamless data integration
- Helps to make informed and timely decisions





ArcGIS is a Complete System



Frequently Asked Questions about Mobile GIS

- Should I choose ArcPad or ArcGIS Mobile?
- Should I pick ArcGIS for Smartphones instead?
- Which Smartphone ArcGIS application is right for me?
- •

Esri's Mobile GIS Solutions

- Professional data collection
 - ArcGIS Mobile
 - ArcPad
 - ArcGIS Engine
- ArcGIS for smartphones/devices
 - iOS
 - Windows Phone
 - Android
 - Blackberry (BP solutions)
- Mobile Web applications









Esri Mobile Technologies



Professional Data Collection

ArcGIS Mobile 10

ArcGIS Mobile

- Ready-to-deploy applications
- Task-based, workflow driven user experience
- Synchronization of data between field and office
- Sometimes connected workflow
- NET software development kit (SDK)
- Desktop configuration and provisioning tools

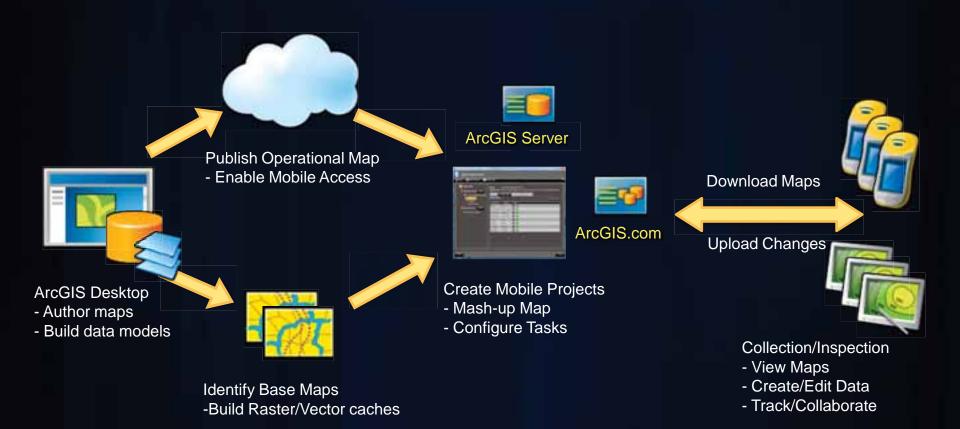


Mobile Project Center

- Create & manage ArcGIS Mobile applications
- Publish and share maps & content
 - Local
 - On-premise server
 - Cloud (ArcGIS.com)
- Provision applications and data to field devices



ArcGIS Mobile Workflow – Server



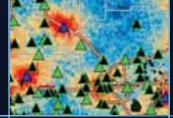
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Mobile Project Center Demo







Leverage ArcGIS Desktop (New at 10 Release)

- Deploy a single copy of ArcGIS Mobile
- Mobile GP tools:
 - Create & deploy caches to mobile devices
 - Sync field edits on the desktop (MXD)
- Purchased in 5-pack bundles



ArcGIS Mobile Workflow – Desktop



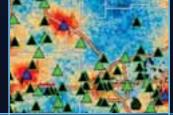
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Mobile Desktop Workflow Demo







ArcGIS Mobile SDK

- Microsoft .NET SDK
 - Extend field applications
 - Create focused Mobile GIS applications
 - Embed ArcGIS into existing line of business applications



- Download from Customer Care Portal
- Help and samples at ArcGIS Mobile Resource Center

ArcPad

ArcPad 10

- Mobile lightweight GIS application
 - Focused on field data collection
 - Targets GIS professional in the field
 - Synced with ArcGIS 10 release



ArcPad 10 Key Features

- Supports ArcGIS Online & Bing Maps
- Focused on ease of use (forms for related tables, Quick Capture Toolbar)
- Professional GPS/GIS data collection workflow

ArcGIS for iOS

ArcGIS for iOS

Application

• API



ArcGIS for iOS Application

- Esri's first iOS application
- Universal Application:
 - iPad
 - iPhone
 - iPod Touch
- Works with maps:
 - ArcGIS Online
 - On-premise content server
- Free download on Apple's App Store



ArcGIS API for iOS

- Native objective C API
- Build focused mobile mapping applications
 - Embed GIS into an existing applications
- Download from Esri Resource Center



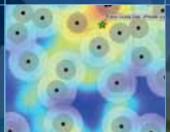
Who is it for?

- Existing ArcGIS users
 - Consumers of enterprise GIS
 - Consumers of Community Mapping
 - GIS developers
 - Esri business partners
- iOS Community
 - iOS users
 - iOS Developers



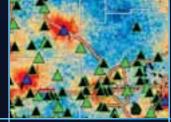


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iOS Demo

ArcGIS API for iOS Capabilities

Maps

- Supports multiple map projections
- Dynamic and cached (tiled) map services, Bing and Open Street Map
- Graphics
 - Sketch graphics on map canvas
 - Create pop-ups
- Tasks
 - Query, identify, find GIS features
 - Collect GIS features
 - Locate/geocode addresses

ArcGIS for Windows Phone

ArcGIS for Windows Phone

- Application
 - 1.0 released
 - Available from the Zune Marketplace
 - Similar to ArcGIS for iOS

ArcGIS API for Windows Phone

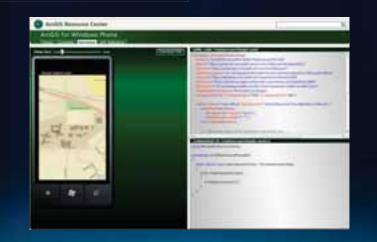
- 2.1 released
- Available from the Esri Resource Center



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ArcGIS API for Windows Phone

- Silverlight development using VS 2010
- ArcGIS for Windows Phone
 Resource Center
 - Download API
 - Concepts and reference doc
 - Forums, blog, code gallery



ArcGIS for Android

ArcGIS for Android

Application

- In development
- Built on the API
- Similar functionalities as iOS app
- Android Marketplaces
- API
 - Public beta



ArcGIS API for Android

Java

- ArcGIS for Android Resource Center
 - Download API
 - Concepts and reference documentations
 - Forums, blogs, and code gallery



Mobile Web Applications

Mobile Web Applications

ArcGIS API for JavaScript

- Mobile web apps built using HTML 5
- Designed to run on mobile devices
 - Compact build
- Runs on many mobile devices



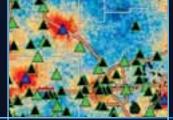
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Mobile Web Appliction Demo







Selecting the Right Mobile GIS Solution



Resources

- ArcGIS Resource Center for Mobile
 - http://resources.arcgis.com/content/mobilegis/about
 - Video for ArcGIS Desktop and Mobile: http://resources.arcgis.com/gallery/video/arcgismobile/details?entryID=85FA839A-1422-2418-882A-E1148D3DE858
 - Video for ArcGIS Mobile Project Center: http://resources.arcgis.com/gallery/video/arcgismobile/details?entryID=86018768-1422-2418-8853-3213B5F47918

ArcGIS.com

Questions? . . 7

