Using ArcGIS on Smartphones and Tablets

Paul Barker
Russ Roberts
What we will cover today

- The ArcGIS system
- What is Mobile GIS?
- What is ArcGIS for Smartphones and Tablets?
- Authoring Intelligent maps through ArcGIS Online
- Using ArcGIS for Smartphones and Tablets
- Directing users to your maps
ArcGIS is a Complete System
Managing and working with geographic information

- Online (public or private cloud)
- Server (on premises or private cloud)
- Desktop
- Mobile/devices
- Content

Many deployment options

- Visualize
- Create
- Collaborate
- Discover
- Manage
- Analyze
What is ArcGIS Online?

- Cloud-based system
  - Platform for building Geospatial Apps
  - Online or on premises
- Geospatial content management system for organizations
  - Catalog
  - Search/discovery
  - Sharing and group collaboration
- Ready-to-use Map Content & Services
What Can You Do With ArcGIS Online?

- Leverage as a platform for your apps
- Organize and manage geospatial content and maps
- Access, discover, share and collaborate
- Map business data across your enterprise
- Publish or register map services
- Easily provide public access
The Power of ArcGIS Online

- Intelligent Web Maps that can be used everywhere

One Map – Many Devices
What is mobile GIS?

*ArcGIS at your fingertips when you are on the move*

- With a mobile GIS solution you can
  - Carry your maps with you on the go
  - Collect and Update Data
  - Multiple users seamlessly using the same map
  - Access to dynamic information
  - Historically a rugged market
What are the benefits of Mobile GIS?

Accessible intelligent Web Maps from anywhere

- Improve Efficiency and Accuracy of Mobile Operations
- Rapid Data Collection and Seamless Data Integration
- Replaces paper based work flows
- Helps to Make Informed and Timely Decisions
- Extends the reach of Information Access
Mobile Landscape

Smartphone manufacturer share by operating system
Q2 2012, US mobile subscribers

Source: Nielsen
What is ArcGIS on Smartphones and Tablets?
ArcGIS on Smartphones and Tablets

- Designed for touch-screen phones and tablets
- Connected Workflows (Wifi, 3G)
- Location Integration
- Replace Paper Surveys
  - Intelligent forms
  - Field Validation
  - Media Integration
- Replace paper map books
Who is this for?

- Knowledge Worker
- Customer
- Decision Maker / Storyteller
So... what can I do?

- Works with maps:
  - ArcGIS Online
  - On Premise
- Key Capabilities:
  - Role-based
  - View Maps
  - Search
  - Data Collection and Editing
  - Bookmarks
  - Secured Services
How do I get started?

- Available for free on device app store
- Resources available on [http://resources.arcgis.com](http://resources.arcgis.com)
  - Capabilities
  - System Requirements
  - Frequently Asked Questions
- Community and User driven support on [http://forums.arcgis.com](http://forums.arcgis.com)
Discovering and Viewing maps

- Discover and View Maps
  - ArcGIS Online
- Explore maps
  - Popups, gestures
- Sharing maps
  - Groups, Favorites
- GIS Connections
  - Connect to your organization web maps

Knowledge Worker  Decision Maker  Customer
Map Capabilities

- **Find**
  - Feature popups
  - Reverse geocoding
  - Location based searches
  - Predefined queries

- **Tools**
  - GPS
  - Measure
  - Data Collection and Editing
Data Collection and Editing

- Authored maps
  - ArcGIS Server Feature layers
- Attributes
  - Types / Domains
  - Attachments
  - Date fields
- Features
  - Template based
- Updates server

Knowledge Worker  Decision Maker  Customer
Intelligent Maps

- Flexible Publishing Models
  - ArcGIS Online (Hosted from Cloud or Desktop)
  - On Premise (ArcGIS Server)
- Rich popups and symbology
- Multiple Basemaps
- Keep the map focused!
ArcGIS for … Demo

Russ Roberts
What was used?

- ArcGIS Desktop & Server 10.1
- ArcGIS Online
- Private Amazon Instance
- Mobile Device
Directing Users to your Maps

Paul Barker
Directing Users to your Maps

- Multiple ways to allow your maps to be discovered and used
- Choose a method that meets your organizations needs

http://www.cityofsandpoint.com/MappingGIS/default.asp
• Who is Using it?

• Developed by the City of Greenville GIS Division

• Its purpose is to aid everyone

• They provide useful trip-planning information to your finger tips
Who is Using it?

- Evari’s City of San Diego Street Light Conversion Project
- This project includes conversion of 35,311 120 and 240 volt cobra head streetlights
- Southern work crews have been outfitted with a fleet of iPads
- Crew members access to the data through a map-based interface
- Update the status of the street lights & attach project photos
Who is Using it?

- City of Amherst
- Reaching their community base with smart maps
- Online and Mobile access
Road ahead

- Configurable Apps
- 3D Capabilities
- Offline Functionality
- New Platforms and APIs
- Release strategy
Further information

Steps to evaluate UC sessions

• My UC Homepage > “Evaluate Sessions”

• Choose session from planner
  OR

• Search for session

www.esri.com/ucsessionsurveys
Thank you for attending
Have fun at UC2012
Open for Questions

Please fill out the evaluation:

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