Portable Device Applications
Using GIS

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January 30th, 2013
Why Mobile GIS?

- To Provide Access To GIS On Tablet & Smart Phone Devices
- Enhance Collaboration Between Field And Office Environments

- GIS Data Wherever You Are
- Targeted Applications For Specific Tasks
- Access To Information For Making Decisions
- Collecting and Updating GIS Data
Will It Work On My Phone?

- Most Web GIS Applications Not Designed for Use on Mobile Devices
- Applications Need To Be Developed Specifically for Screen Sizes, Functionality etc.
What We Wanted

- Software That Leveraged Our ESRI Investment
- The Ability To Quickly Deploy Apps For Projects
- Minimize Individual Configuration
- Flexible Amongst Many Devices & Platforms
- Ability To Edit Features Live Through Any Device
- Consistent With Our Enterprise GIS Vision
A 3 Screen World

- Users Expect Apps Will Work Across All Devices
- Flexibility For As Many Users As Possible
What We Found

- ESRI ArcGIS Online & ESRI ArcGIS App
- Free App for Apple, Android & Microsoft Devices
- Useful Mapping Tool – Out of the Box
- Very Powerful When Used In Conjunction With ESRI Products
Map Gallery – Basemaps

- General Use Maps; Street, Aerial and Topography
- Basemaps Run Very Quickly
Map Gallery – Shared Maps

- Maps Created & Shared by Data Stakeholders
- Authors Provide Associated Attribute Information

Sample Map Gallery
Use Your GIS Data

- Author a Map at ArcGIS.com on Desktop
- Access To Your ESRI Web Maps and Basemaps
- Configure Pop Ups, Searches, Map Symbology
Accessing Attribute Data

- Touching A Feature Allows Access To Attributes
- Attributes Provide Intelligence To A Map
- Attributes Vary From Feature to Feature
Document Linking

- Access Related Digital Documents or Websites
- Photos, Project Plans, Scans

Photos

Scanned Tie Card
Map Measurements

- Both Area and Length Measurements
- Can Be Reported in Different Measurement Units
- Measurements Can Be Fine Tuned
GPS Functionality

- Available on Most Phones & 3G/4G Tablets
- Icon Displays Your Location On Map
- 3m to 5m Tested Accuracy in Most Cases
Field Collection or Updating

- Attribute Editing Rules Managed In ArcGIS
- Place Points Using GPS Or Tapping On The Screen
- Easy to Include Video and Attachments
ESRI Software Needed - Minimum

- **ArcGIS For Desktop Basic**
  - (ArcView 10.1 or Higher)
  - Authoring Maps
  - Managing Data
  - Publishing Services

- **ArcGIS Online For Organizations**
  - Authoring Applications
  - Securing Applications
  - Cloud Storage
Additional ESRI Software

- ArcGIS for Server - Helpful But Not Necessary
  - Version 10.0 or Higher
  - Utilize Your GIS Infrastructure
  - Host Your Own Services
  - Doesn’t Count Towards “Credits”
  - Live Updates to Your Enterprise Database
Questions

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