ArcGIS for iOS
Russ Roberts
Scott Sirowy
The ArcGIS System
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
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
## Apps and SDKs

<table>
<thead>
<tr>
<th>Windows Mobile</th>
<th>Windows/</th>
<th>Windows Phone 7</th>
<th>iOS</th>
<th>Android</th>
<th>Linux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apps</td>
<td></td>
<td></td>
<td></td>
<td>Apps</td>
<td></td>
</tr>
<tr>
<td>ArcGIS</td>
<td></td>
<td></td>
<td></td>
<td>ArcGIS</td>
<td></td>
</tr>
<tr>
<td>ArcGIS Explorer</td>
<td></td>
<td></td>
<td></td>
<td>ArcGIS for iOS</td>
<td></td>
</tr>
<tr>
<td>Runtime SDK</td>
<td></td>
<td></td>
<td></td>
<td>Runtime SDK</td>
<td></td>
</tr>
<tr>
<td>.NET CF</td>
<td></td>
<td></td>
<td></td>
<td>Objective C</td>
<td></td>
</tr>
<tr>
<td>Apps</td>
<td></td>
<td></td>
<td></td>
<td>Runtime SDK</td>
<td></td>
</tr>
<tr>
<td>ArcGIS</td>
<td></td>
<td></td>
<td></td>
<td>Java</td>
<td></td>
</tr>
<tr>
<td>Runtime SDKs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPF, Java</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ArcGIS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Runtime SDK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silverlight</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

You are here!
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
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
• Historically a rugged market
Why iOS?

- **Large user base**
  - 365M devices sold as of March 30 (WWDC)
  - 54.9 percent of U.S. mobile subscribers owning smartphones as of June 2012

- **Native or web app...we support both**
  - Your users & their devices
  - Required features/functions
  - Your technology constraints
  - Your skills
What is ArcGIS for iOS?
ArcGIS for iOS Overview

SDK & Application

- Feature
- Dynamic
- Tiled
- Graphic
- Image

Identify
Query
Locator
Geoprocessing

Templates
Connected (feature layers)
Editor Tracking
Ownership Based Editing

New in latest release! (SDK and Application)
ArcGIS for iOS App
So… what can I do?

- Works with maps:
  - ArcGIS Online
  - On Premise
- Key Capabilities:
  - View Maps…
  - Search
  - Data Collection and Editing
    - Role-based
  - Bookmarks and Predefined Queries
  - Secured Services
Who is this for?

Knowledge Worker

- Leverages app for daily field operations
  - Viewing
  - Collecting
  - Inspecting
Who is this for?

- App adds value to day-to-day activities
  - Road closures
  - Community Reporting
  - Points of interest
Who is this for?

- Decision Maker
  - Disaster Response
  - Evacuation Routes
  - Urban Development
- StoryTeller
  - Education
Who is this for?

- Knowledge Worker
- Customer
- Decision Maker / Storyteller
How do I get started?

• Available for free on the Apple App Store
  - Session Exercise: Go to the App Store, search for ArcGIS, and download (or update if you already have it)

• Resources available on http://resources.arcgis.com
  - Capabilities
  - System Requirements
  - Frequently Asked Questions

• Community and User driven support on http://forums.arcgis.com/forums/182-ArcGIS-for-iOS-Apps
Supported Workflows
Discovering and Viewing maps

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

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

- Tools
  - GPS
  - Measure
  - Data Collection and Editing
Viewing Capabilities Demo
Russ Roberts
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
Editing Capabilities Demo
Russ Roberts
ArcGIS Runtime SDK for iOS
What is it?

- Objective-C based API
- Build native applications
  - For consumer markets (Apple App Store)
  - For enterprise deployment
Who’s using it?

ArcGIS for iOS

University of Oregon

Health Indicators

The ArcGIS iOS Gallery

RC2GO
What do you get?

- **ArcGIS Runtime SDK for iOS**
  - API Reference
  - Developer Samples
  - Conceptual help doc
  - Deployment
  - User Forum
What do you need?

- Intel-based Mac
- Xcode (4.x)
- Apple’s iOS SDK (4.2.x)
- ArcGIS Runtime SDK for iOS
- Join iOS Developer Program
  - Standard – App Store Distribution
  - Enterprise – In-house Distribution
ArcGIS for iOS SDK Session Schedule

- Building Applications with ArcGIS Runtime SDK for iOS
  - Thursday July 26, 8:30am - Ballroom 31 B
Road ahead

- Configurable Apps
- 3D Capabilities
- New Platforms and APIs
- Offline Functionality
- Release strategy
Road Ahead Session Schedule

- Road Ahead – ArcGIS for Mobile Devices
  - *Wednesday* July 25, 10:15am - *Ballroom 06 B*
  - *Thursday* July 26, 10:15am - *Ballroom 06 B*
Further information

- [arcgis4iPhone@esri.com](mailto:arcgis4iPhone@esri.com)

- Web Courses available
  - Getting Started with the ArcGIS API for iOS
  - Creating Data Collection Applications using the ArcGIS API

- Please fill out the session review form!
Steps to evaluate UC sessions

• My UC Homepage > “Evaluate Sessions”

• Choose session from planner
  OR

• Search for session

www.esri.com/ucsurveysessions