Federal GIS Conference

February 25–27, 2013 | Washington, D.C.

esri

ArcGIS for Mobile Devices: An Overview

Jeff Shaner

Bonnie Stayer

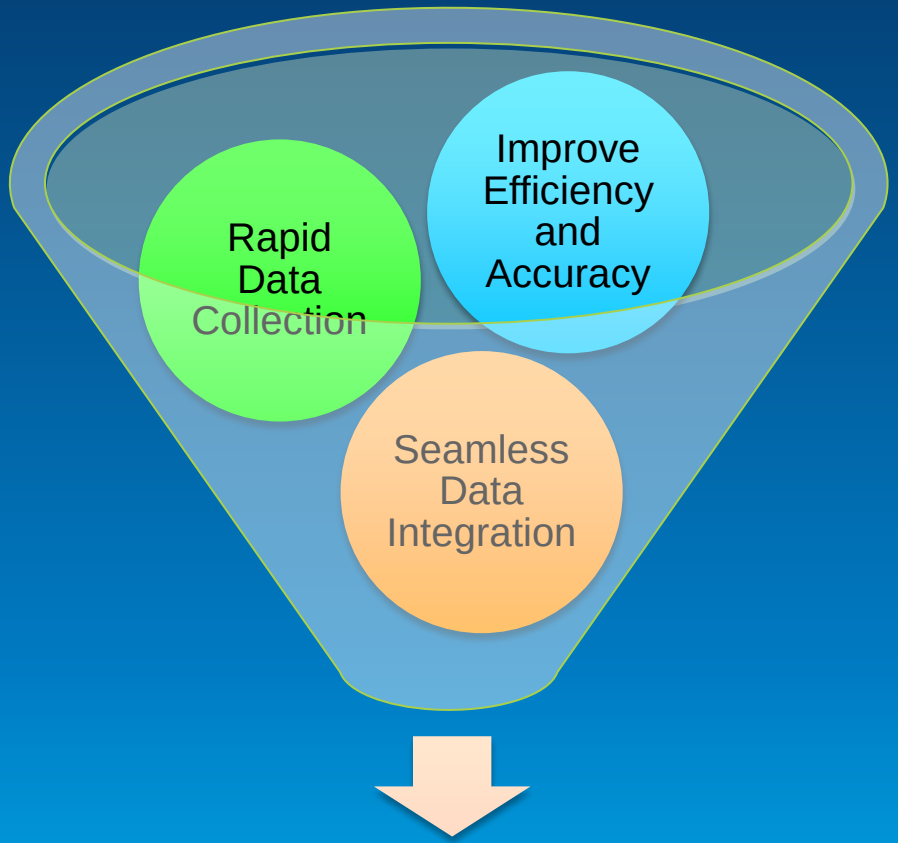
Agenda

- Esri Positioning and Key Benefits
- Your Mobility Strategy
- Q & A

Positioning and Benefits

Key Benefits of Mobile Solutions

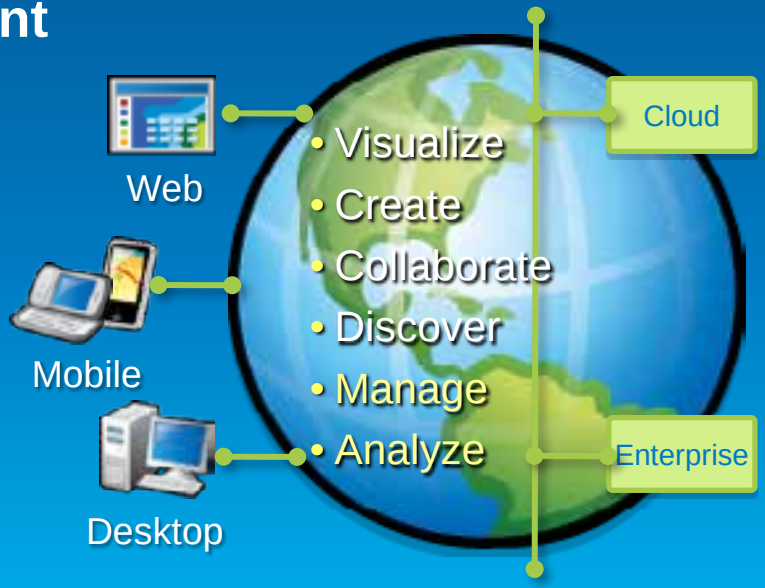
Leverage your investment in ArcGIS



ArcGIS is a Complete System

Managing and working with geographic information

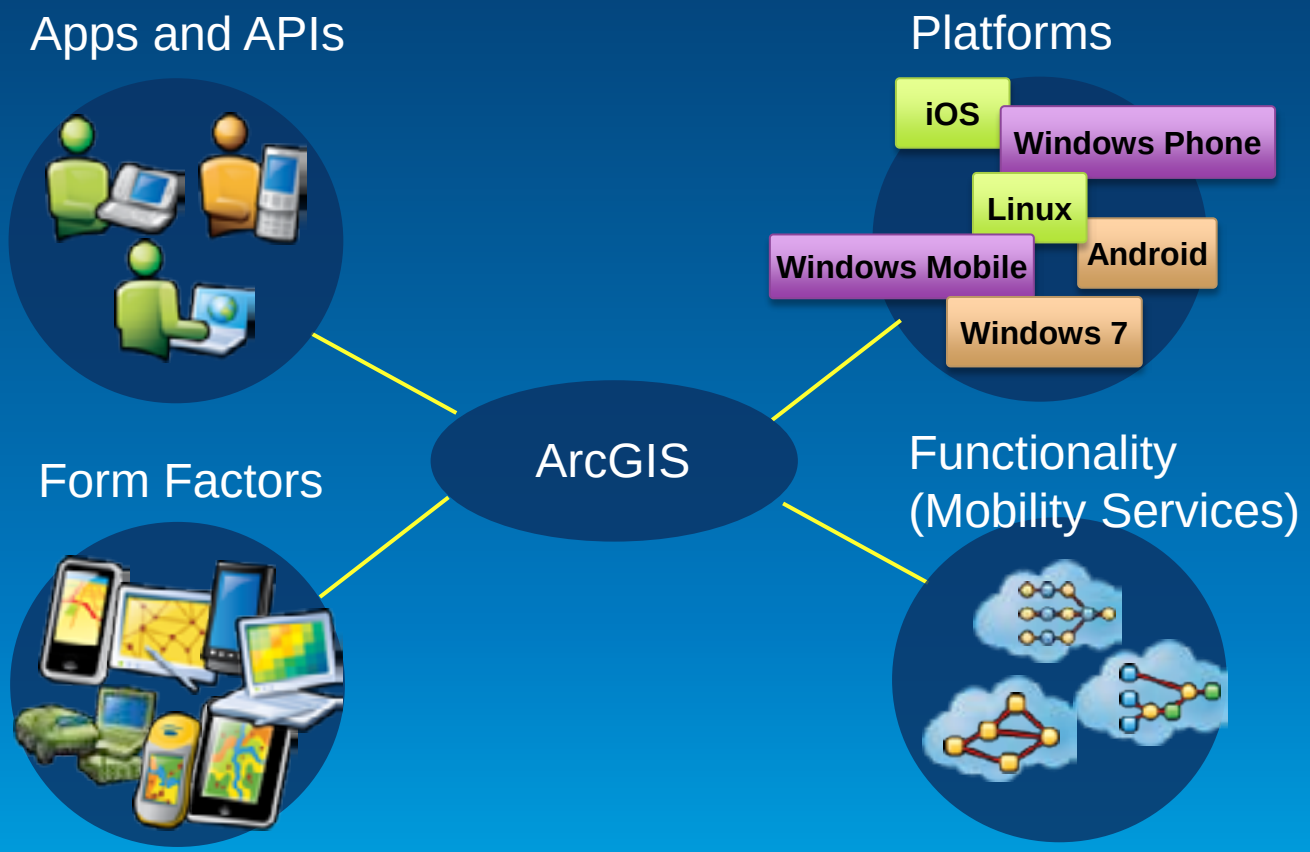
- **Online (public or private cloud)**
- **Server (on premises or private cloud)**
- **Desktop**
- **Mobile/devices**
- **Content**



Many deployment options

Esri Mobile Technologies

Mobile capabilities of the ArcGIS system



Device Platforms

Windows Mobile	Windows	Windows Phone	iOS	Android	Linux
Apps ArcGIS Runtime SDK .NET	Apps ArcGIS, AGX Runtime SDK WPF, Java	Apps ArcGIS Runtime SDK Silverlight	Apps ArcGIS Runtime SDK Objective C	Apps ArcGIS Runtime SDK Java	Runtime SDK Java

Your Mobile Strategy

Mobile Technology for the Knowledge Worker

Mobile Technology for the Knowledge Worker

Field Operations

5 Key Workflows

1. Replace paper map books
2. Map infrastructure
3. Maintain infrastructure
4. Replace paper surveys
5. Respond to events

Capabilities

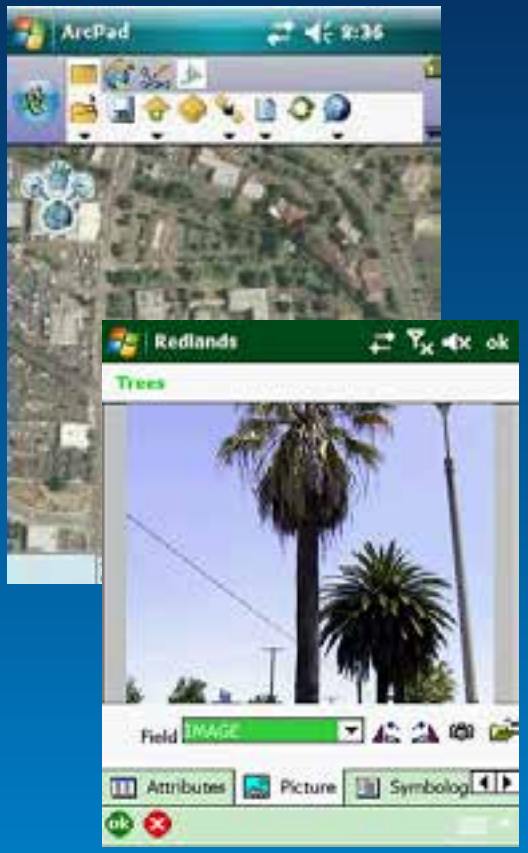
Disconnected use
Data Entry Forms
Location Tracking
Routing and Nav
Intelligent Search
Field Sync
High Accuracy GPS
Assigned Tasks
…

Platforms

Rugged Handhelds
Laptops
Tablets
Smartphones

ArcPad

- Full Featured Mobile GIS App
- Ad-hoc data collection projects
- High accuracy GPS
- Configurable
- Custom forms
- Fully Disconnected
- Users typically need GIS Training

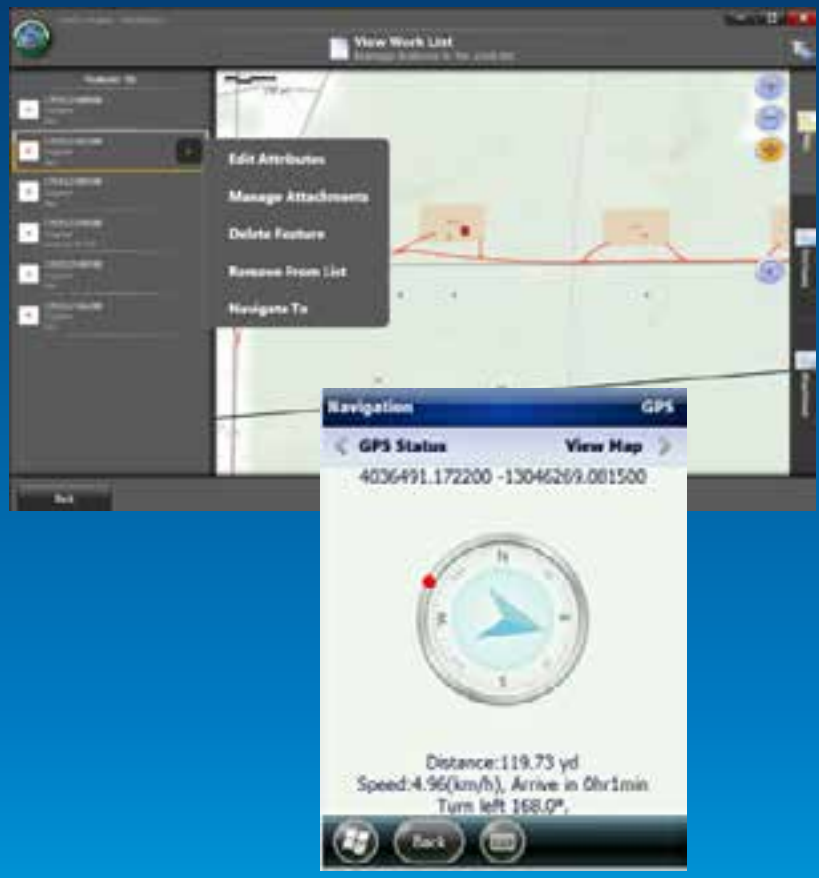


Windows 7/8 Laptops

Windows Mobile handhelds

ArcGIS for Windows Mobile

- 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

Trimble Positions

- Enhances data collection capabilities
  - Ensures Positional accuracy
  - Supports post-processing of GPS positions
  - Enables VRS/RTC connection to corrected positions
  - Geo Explorer series, Juno series and Nomad devices
- ArcGIS for Windows Mobile
  - Extends ArcGIS field app (Windows Mobile platform only)
  - Extends SDK
- ArcPad
  - GPS Correct Extension

Demo

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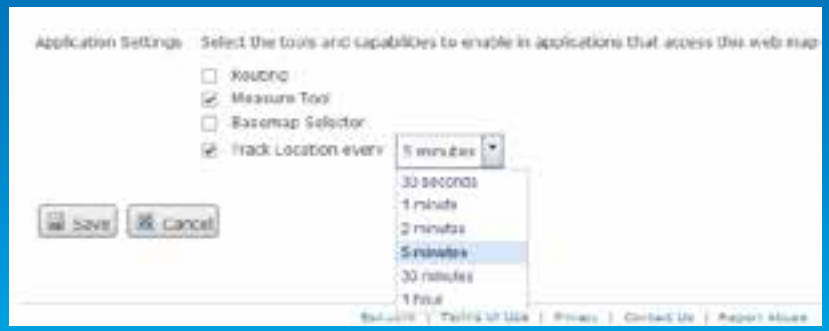
Collector

- Collect new GIS features using map or GPS
- Complete intelligent data entry forms
- Attach photos and video
- Find places and points of interest
- Get driving directions to places and features
- Measure distance and area
- Location tracking



iPhone, Android Phone devices

Demo

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Mobile Technology for the Knowledge Worker

Planning and Logistics

3 Key Workflows

1. Monitor and Manage Operations
2. Share plans
3. Present to stakeholders

Capabilities

- Live maps
- Graphs
- Indicators
- Charts
- Presentations
- Story telling
- Redlining
- Dispatching
- Sharing
- …

Platforms

- Tablets
- Laptops
- Smartphones

Operations Dashboard

Monitor day to day operations or events

- Role-based access, configurable
- Widgets
  - Bar Charts
  - Gauges
  - Histograms
  - Indicators
  - Lists
  - Details
- Monitor operations in a control center
- Provide executive view on laptops, touch screen devices

Multi-monitor use

Single-monitor use

ArcGIS App

Map viewing and display

- Role-based access
- View and Share Maps
- ArcGIS Online/ArcGIS Server access
- Popups
- Search
- Redlining
- Online access only

Demo

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Mobile Technology for the Knowledge Worker

Public Engagement

3 Key Workflows

1. Tell Stories
2. Inform Citizens
3. Crowd Source information

Capabilities

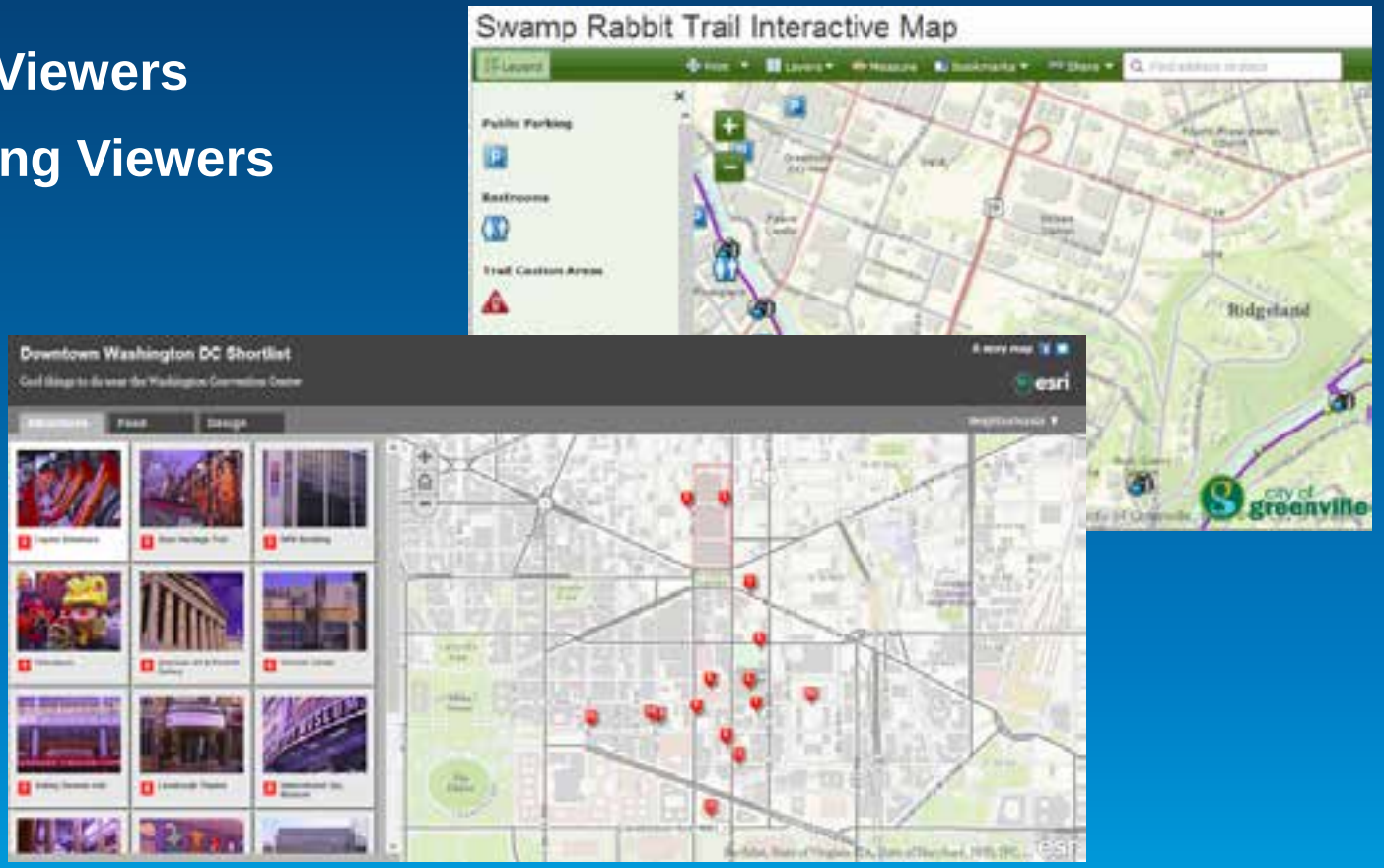
- Live maps
- Graphs
- Indicators
- Charts
- Presentations
- Story telling
- Redlining
- Data Collection
- Sharing
- …

Platforms

- Tablets
- Laptops
- Smartphones
- Web browsers

ArcGIS Online Web Application Templates

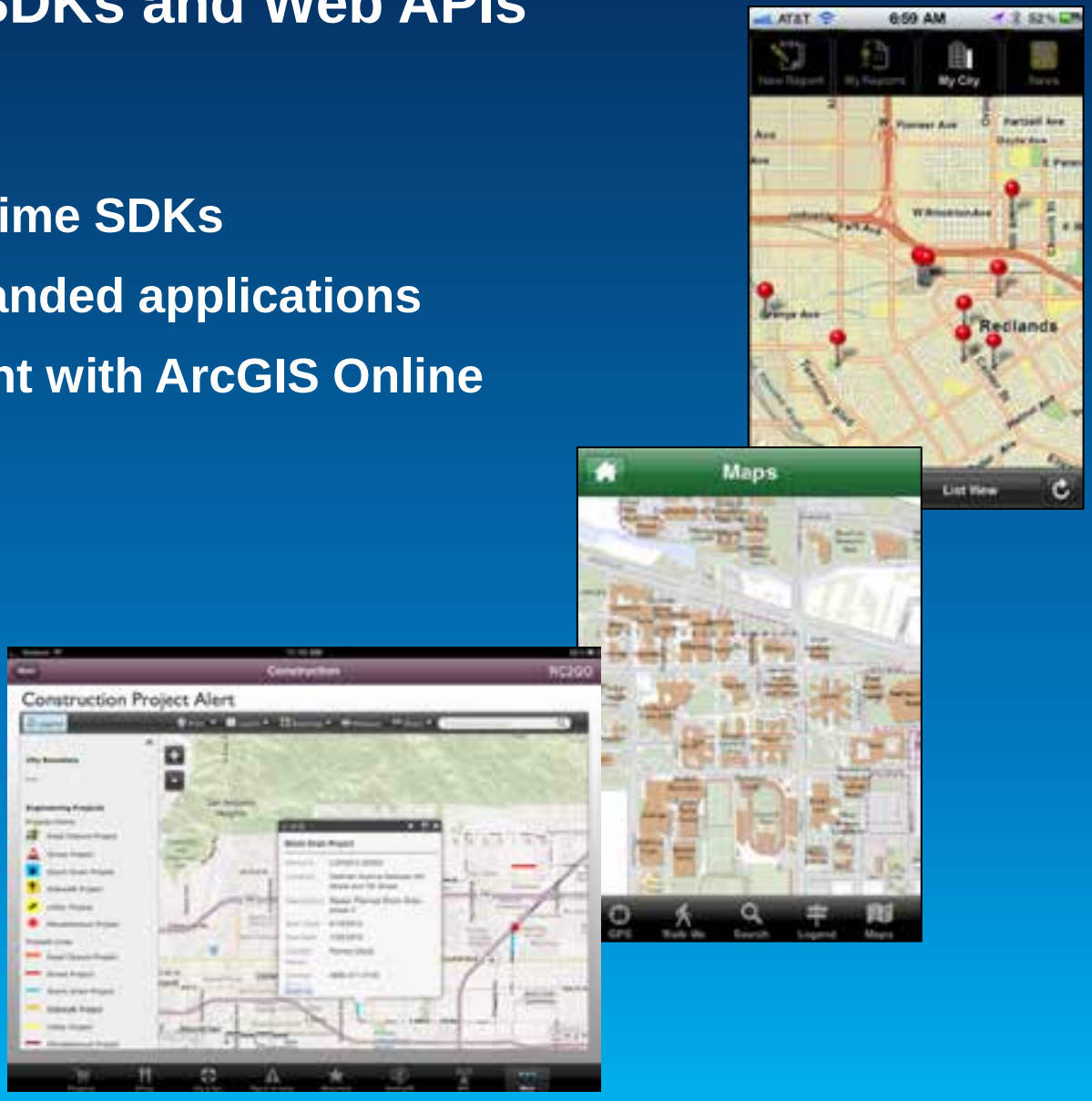
- **Standard Viewers**
- **Story Telling Viewers**



ArcGIS Runtime SDKs and Web APIs

Native ArcGIS Runtime SDKs

- Build focused, branded applications
- Rapid development with ArcGIS Online



Demo

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Don’t Miss These Attractions

In the GIS Solutions EXPO

- Exhibitors
- I am GIS Photo Booth & Trading Cards
- Hands-On Learning & Coaching Labs
- Design Studio
- Spatial Outlet
- Esri Showcase
- GIS Technical & Extended Support
- 2 Demo theaters
- Drinks & snacks

Tuesday Evening Reception

Smithsonian American Art Museum and National Portrait Gallery

6:30 PM–9:30 PM

- Walking distance from convention center
- Conference Badge needed for reception
- Coat check available in courtyard
- Serving hot hors d’oeuvres and beverages

Wednesday Closing Session

Closing and Hosted Lunch

11:30 AM–1:30 PM

- Ballrooms A–C, Third Level
- Join conference attendees for lunch and closing session
- Closing Speaker Todd Park, U.S. CTO
- Wrap-up and request for feedback with Jack Dangermond.

Upcoming Events

esri.com/events

Date	Event	Location
March 21, 2013	**MeetUp – ArcGIS Platform**	Washington, DC
April 18, 2013	**MeetUp – Location Analytics**	Washington, DC
March 23–26, 2013	**Esri Partner Conference**	Palm Springs, CA
March 25–28, 2013	**Esri Developer Summit**	Palm Springs, CA
July 6–9, 2013	**Esri National Security Summit**	San Diego, CA
July 8–12, 2013	**Esri International User Conference**	San Diego, CA

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Thank You

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