Collector for ArcGIS: An Introduction
Paul Barker & Russ Roberts
• Going Mobile
• ArcGIS as a platform for your Organization
• What is Collector for ArcGIS
• Creating a map for data collection
• What’s next?
Going Mobile

4Q12 Global Market Share

- 722 million smartphones were shipped in 2012
- Becoming pervasive and common place for both the workforce and consumer space
- Unprecedented opportunities

Source: http://www.idc.com/getdoc.jsp?containerId=prUS23946013
ArcGIS for Organizations

Paul Barker
What is ArcGIS?

• A platform for your organization to...
  
  Explore  | Reach Users  | Manage  | Develop
  Discover | Analyze     | Collaborate

• with...

  Ready to use Apps  | Ready to use Content
What is ArcGIS?

- Intelligent maps that can be used anywhere
What is Collector for ArcGIS?

Paul Barker
Collector for ArcGIS

- Available on iPhone and Android phones
- Targets field data collection
- Free to download and use
- Integrated into the ArcGIS platform
- Configurable using ArcGIS Online and Portal for ArcGIS*
Getting started with Collector

- Logging in (User Identity)
  - Required for use
  - Find maps shared for collection

- Finding your work location
  - Use GPS to find where you are
  - Search Places and Addresses
  - Get directions to navigate yourself

- Exploring the map
  - Tap on the map to learn more
  - Measure distances and area
  - Manage layers and basemaps
Collecting and updating data

• Choosing what you collect
  - Tap Collect and choose what you want to collect

• Choosing what you update
  - Tap on a feature and then edit it

• Set the location
  - Use your current location
  - Using the map

• Complete the form
  - Tap a field and set its value
  - Tap the camera and take a photo/video
Creating a map for data collection

Paul Barker
Maps for data collection

- A web map:
  - Point feature service layer (editable)
    - Lines and Areas are coming soon.
  - Location Tracking layer (optional)
  - Application settings

- Share using groups
  - Create Named Users for each field worker
  - Invite field workers to groups
  - Share maps into groups
Feature Services

- Supported Types
  - ArcGIS Online (Hosted)
  - ArcGIS Server (On Premise)
  - Must include an editable point layer

- Ways to create one:
  - Publish from ArcMap (both types)
  - Reference from ArcGIS Server
  - Create using ArcGIS Online
    - Create Service
    - From existing content (shapefile, CSV)

- Popups and fields
  - Define the form experience in Collector
Location Tracking Service

- Hosted Feature Service only!
- Create one or more per field team
- Add to web map and configure capture interval
- Schema automatically captures:
  - Accuracy – GPS accuracy in meters
  - Creator – username for named user account
  - Creation Date – Date/Time at point of creation
Publishing Workflows

Hosted Approach using ArcMap (Data Copy)

- ArcMap
- --Optional--
- Hosted Feature Service(s)
- Web Map
- Group Collectors 1, 2, 3

Hosted Approach using Shapefiles/CSV (Data Copy)

- .CSV file/Shapefile
- Hosted Feature Service(s)
- Web Map
- Group Collectors 1, 2, 3
Publishing Workflows

Hybrid Approach (Data Reference)

- ArcMap
- Hosted Feature Service
- Web Map
- On-Premise Feature Service
- Group Collectors 1, 2, 3
  - Collector 1
  - Collector 2
  - Collector 3
Pulling it all together

Russ Roberts
What’s next?

Paul Barker
Questions?
<table>
<thead>
<tr>
<th>Day</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>ArcGIS for Mobile Overview</td>
<td>07 A/B</td>
</tr>
<tr>
<td>Tuesday</td>
<td>ArcGIS for Windows Mobile - Intro</td>
<td>17 B</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Road Ahead – Apps</td>
<td>7 A/B</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Collector for ArcGIS – Intro</td>
<td>17 A</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Road Ahead – Apps</td>
<td>06 C</td>
</tr>
<tr>
<td>Wednesday</td>
<td>ArcGIS for Mobile Overview</td>
<td>01 A/B</td>
</tr>
<tr>
<td>Thursday</td>
<td>Collector for ArcGIS - Intro</td>
<td>17 A</td>
</tr>
<tr>
<td>Thursday</td>
<td>Operations Dashboard – Intro</td>
<td>17 A</td>
</tr>
<tr>
<td>Thursday</td>
<td>Customizing the Ops Dashboard</td>
<td>17 A</td>
</tr>
<tr>
<td>Thursday</td>
<td>ArcGIS on Smartphones/Tablets</td>
<td>17 B</td>
</tr>
<tr>
<td>Thursday</td>
<td>Collector for ArcGIS – Intro</td>
<td>17 A</td>
</tr>
<tr>
<td>Friday</td>
<td>Operations Dashboard – Intro</td>
<td>04</td>
</tr>
</tbody>
</table>
## Developer Workshops

<table>
<thead>
<tr>
<th>Day</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>Windows Phone – Developing Apps</td>
<td>17 B</td>
</tr>
<tr>
<td>10:15 – 11:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>Java SE– Developing Apps</td>
<td>17 A</td>
</tr>
<tr>
<td>1:30 – 2:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>iOS – Developing Apps</td>
<td>17 B</td>
</tr>
<tr>
<td>1:30 – 2:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>Android - Developing Apps</td>
<td>17 B</td>
</tr>
<tr>
<td>3:15 – 4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>Road Ahead – Runtime</td>
<td>07 A/B</td>
</tr>
<tr>
<td>8:30 – 9:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>OS X – Developing Apps</td>
<td>17 A</td>
</tr>
<tr>
<td>3:15 – 4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>Windows Store – Developing Apps</td>
<td>17 B</td>
</tr>
<tr>
<td>3:15 – 4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>Qt – Developing Apps</td>
<td>32 A</td>
</tr>
<tr>
<td>10:15 – 11:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>Road Ahead –Runtime</td>
<td>06 A</td>
</tr>
<tr>
<td>3:15 – 4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>WPF – Developing Apps</td>
<td>17 B</td>
</tr>
<tr>
<td>3:15 – 4:30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Special Meetings

<table>
<thead>
<tr>
<th>Day</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>Mobile SIG</td>
<td>04</td>
</tr>
<tr>
<td>12:00 – 1:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>ArcPad User Group Meeting</td>
<td>26 B</td>
</tr>
<tr>
<td>5:30 – 7:00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Esri Product Islands

<table>
<thead>
<tr>
<th>Day</th>
<th>Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>9:00 – 6:00</td>
<td>Halls B, C, D</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9:00 – 6:00</td>
<td>Halls B, C, D</td>
</tr>
<tr>
<td></td>
<td>* Family Night from 4:00 – 6:00</td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>9:00 – 1:30</td>
<td>Halls B, C, D</td>
</tr>
</tbody>
</table>

*Demo Theatre Presentations all day long, every day…*