Survey123 for ArcGIS (Beyond the basics)

San Diego. July 2017
What is Survey123 all about?
Eliminating paper-based field data collection workflows
Why Smart Forms in ArcGIS?

- **Reduce Errors**
  - During Data Capture
  - Transcribing data from paper to digital

- **Boost Field Data Capture productivity**
  - Advanced user input controls
  - Precompute responses
  - Associate photos
  - Leverage sensors in devices
Why Smart Forms in ArcGIS?

• **Real-Time data collection**
  
  • Survey123 submitted data is immediately available for visualization and analysis
  
  • All data stored in ArcGIS Feature Services
What is the meaning of 123... in Survey123?
1- Ask Questions
   (Design & Publish)

2- Get Answers
   (Capture Data)

3- Make Decisions
   (View & Analyze)
1- Ask Questions (Tools for authoring your surveys)

• Survey123 Web Designer:
  • Build smart forms graphically right from your web browser
  • Very easy to get started.
  • Ideal for simple forms
1- Ask Questions  (Tools for authoring your surveys)

- **Survey123 Web Designer:**
  - Build smart forms graphically right from your web browser
  - Very easy to get started.
  - Ideal for simple forms

- **Survey123 Connect:**
  - A downloadable desktop tool. Works in combination with Microsoft Excel.
  - Requires learning and familiarity with XLSForms specification
  - Complete smart form capabilities
1- Ask Questions (Publishing and Sharing)

- **Publishing**
  - ArcGIS Online and ArcGIS Enterprise support

- **Sharing**
  - **Private Surveys**
    - Shared with Groups
    - Requires a Named User account to submit data
  - **Public Surveys:**
    - Shared with everyone.
    - Anyone can submit data
2- Get Answers

• **Survey123 WebForms**
  - Capture data from a web browser. Can be embedded within a web site.
  - Nothing to install.
  - Online only. Add new data only.

• **Survey123 Field App**
  - Available for download (Google Play, iOS, Windows, Mac)
  - Leverage device sensors (external GPS, camera etc)
  - Can work Online and Offline
  - Can add new data and update existing features.
3- Make Decisions

• Ready to use Reporting tools
  • Understand data submission patterns
  • Create detailed survey reports
  • Aggregate survey data
  • Selectively download data
How to spell Survey123?
How to spell Survey123?
How to spell Survey_123?
How to spell Survey-123?
How to spell Survey 123?
Survey 123

YES

Survey 123

NO
An introduction to XLSForms and Survey123 Connect
• Building surveys on top of existing feature services
• Updating existing features with Survey123
• How do I integrate Survey123 and Collector for ArcGIS?
• Working with ArcGIS Enterprise
Introduction to XLSForms and Survey123 Connect for ArCGIS

San Diego. July 2017
About XLSForms

- XLSForm is a standard created to help simplify the authoring of forms in Excel
- Many different form-centric tools use XLSForm, including Survey123
- XLSForm’s is described at http://xlsform.org/

- Notes:
  - Not all (but most) XLSForms features are implemented in Survey123
  - Survey123 extends XLSForms with features that are not implemented in other tools
  - Your reference to using XLSForms in Survey123 is our Survey123 help
XLSForm looks something like this

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>type</td>
<td>name</td>
<td>label</td>
</tr>
<tr>
<td>2</td>
<td>begin group</td>
<td>GroupViolation</td>
<td>&lt;center&gt;Violation Details&lt;/center&gt;</td>
</tr>
<tr>
<td>3</td>
<td>dateTime</td>
<td>ReportDateTime</td>
<td>Date &amp; Time Observed:</td>
</tr>
<tr>
<td>4</td>
<td>select_multiple violationTypes</td>
<td>ViolationType</td>
<td>Type of Violation</td>
</tr>
<tr>
<td>5</td>
<td>text</td>
<td>ViolationType_Other</td>
<td>Other Violation Description</td>
</tr>
<tr>
<td>6</td>
<td>text</td>
<td>ReportNotes</td>
<td>Notes:</td>
</tr>
<tr>
<td>7</td>
<td>image</td>
<td>ViolationPhoto</td>
<td>Photo</td>
</tr>
<tr>
<td>8</td>
<td>geopoint</td>
<td>ViolationLocation</td>
<td>Location</td>
</tr>
<tr>
<td>9</td>
<td>end group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>begin group</td>
<td>GroupViolator</td>
<td>&lt;center&gt;Offender Details&lt;/center&gt;</td>
</tr>
<tr>
<td>11</td>
<td>select_one responsiblePartyType</td>
<td>ResponsibleParty</td>
<td>Type</td>
</tr>
<tr>
<td>12</td>
<td>text</td>
<td>OffenderName</td>
<td>Offender's name</td>
</tr>
<tr>
<td>13</td>
<td>select_one yes_no</td>
<td>OffenderPresent</td>
<td>Is Offender or Representative Present at Time of Record?</td>
</tr>
<tr>
<td>14</td>
<td>image</td>
<td>Signature</td>
<td>Signature</td>
</tr>
<tr>
<td>15</td>
<td>end group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>note</td>
<td>Note</td>
<td>&lt;center&gt;&lt;a href='tel:9093624397'&gt;Call water Department&lt;/a&gt;&lt;/center&gt;</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
About Survey123 Connect for ArcGIS

• A desktop tool that will help you author XLSForms and publish them into ArcGIS
• Available for Windows, Mac and Ubuntu Linux
Downloading Survey123 Connect

1) Log into https://survey123.arcgis.com
2) Click on Create a New Survey
3) Select Survey123 Connect and Download
How does Connect work?

Define your form in Excel using XLSForms syntax

Preview your XLSForm in Connect when happy… publish
Demo
Agenda

• An introduction to XLSForms and Survey123 Connect
• Building surveys on top of existing feature services
• Updating existing features with Survey123
• How do I integrate Survey123 and Collector for ArcGIS?
• Working with ArcGIS Enterprise