Survey123 for ArcGIS: An Introduction

Brandon Armstrong, Philip Wilson, & Derek Law

@GIS_Bandit
Agenda

• Product overview
• Authoring surveys
• Collecting data
• Examine survey results
• Summary
Forms

*A printed or typed document with blank spaces for insertion of required information*

- Universally used
  - Utilities (Water, Electric, Telco, Gas)
  - Transportation
  - Government
  - Humanitarian, Non-Profit, Conservation
  - Census
  - Health
  - Emergency Management
  - Agriculture...
Survey123 for ArcGIS

- Form-centric data collection solution
- Leverages smart forms
- Web browser-based solution
  - Also supports mobile devices
- Integrated with ArcGIS Online
  - Available with ArcGIS Enterprise
Why Smart Forms in ArcGIS?

- **Reduce errors**
  - During data capture
  - Transcribing data from paper to digital
- **Boost field data capture productivity**
  - Precompute responses
  - Associate photos with alphanumeric data
- **Data from the field to the office in real-time**
- **All data captured is georeferenced**
Many Customers – Many Use Cases
1- Ask Questions  
(Design & Publish)

2- Get Answers  
(Capture Data)

3- Make Decisions  
(View & Analyze)
Authoring Surveys

• **Survey123 Web Designer**
  - Build smart forms graphically in a web browser
  - Very easy to get started
  - Ideal for simple forms

• **Survey123 Connect**
  - Desktop tool; works in combination with Microsoft Excel
  - Requires learning and familiarity with XLSForms specification
  - Complete smart form capabilities
Survey123 Web Designer

- Preview in left panel, set parameters in right panel
Survey Question Types in Web Designer

- Most common questions
- Addresses many workflows
- Simple forms
Setting Rules

• Simple conditional statements can control visibility of questions
• Applicable for Single Choice, Dropdown, Likert, and Rating

![Image of setting rules interface with examples]
Tour of Survey123
Author in Web Designer
Updating Surveys

• Published surveys can be edited in Web Designer
• Supported changes
  - Add new questions
  - Reorder questions
  - Delete questions
  - Update labels in questions
  - Add, update, delete choices in lists
  - Update constraints, default values, hints, and required status
Sharing Surveys

- **Private Surveys**
  - Shared with a well-known group of users (secured access)
  - Requires use of one ArcGIS accounts per every field user
  - Enables Editor Tracking capabilities
  - Ideal for sensitive data or when you want to understand who is doing what

- **Public Surveys**
  - Shared with everyone
  - No need for ArcGIS accounts; anyone can submit data
  - Ideal for crowd-sourcing initiatives
Collaborate Tab

- After publishing survey, you control access
  - Data submission → Submitter
  - Review results → Viewer
Accessing the Survey

• Control how the survey is accessed

Survey link:
https://arcgis.is/1b4rPy

- Open the survey in browser directly
- Ask the user how to open the survey, in browser or in the Survey123 field app
- Open the survey in the Survey123 field app directly. (Learn more about this option)
Survey123 Connect

- Desktop app → author and publish smart forms to ArcGIS
- Works in combination with a spreadsheet editor
- Available for download at survey123.arcgis.com
- Supported on:
  - Windows 7, 8, 10
  - OS X
  - Ubuntu Linux
Creating forms in Survey123 Connect

• **Types of questions:**
  - Date and time, numeric, text, choices, spatial location, barcodes, and signatures

• **Logic and validation rules:**
  - Default values, calculations, cascading questions, grouping, relevant associations, and repeats

• Media (such as images and audio files) can also be used

• Connect includes many samples and templates
Publish surveys

- Publish to an ArcGIS portal (ArcGIS Online or Portal for ArcGIS)
Surveys in ArcGIS Online

- A survey is stored as a folder
- May have 4 components
  - Form
  - Feature layer
  - Feature layer view (fieldworker)
  - Feature layer view (stakeholder)
1- Ask Questions
(Design & Publish)

2- Get Answers
(Capture Data)

3- Make Decisions
(View & Analyze)
Webforms

- Capture data from a web browser
- Can be embedded within a web site
- Add new data only
Survey123 Mobile App

- Use for data collection in the field
- Can capture new data, edit existing data
- Supports offline workflows
- Cross platform
External Devices: Spike

- Rangefinder + Device’s Camera
- Measure objects:
  - Distance
  - Location
  - Length / Area

![Image of Spike device on a phone and tablet displaying measurement capabilities.]
Collecting data with Survey123
1- Ask Questions  
(Design & Publish)

2- Get Answers  
(Capture Data)

3- Make Decisions  
(View & Analyze)
Survey123 Website – Make Decisions

• Ready to use reporting tools
  - Understand data submission patterns
  - Create detailed reports
  - Aggregate survey data
  - Download data
Bring your Survey data into ArcGIS

- Survey data is a hosted feature service
- Use with other ArcGIS apps
Explore Survey123 website
Summary

- Product overview
- Authoring surveys
- Collecting data
- Examine survey results
- Questions
Please Take Our Survey on the App

Download the Esri Events app and find your event

Select the session you attended

Select the Feedback tab

Complete answers and select “Submit”
## See Us Here

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