

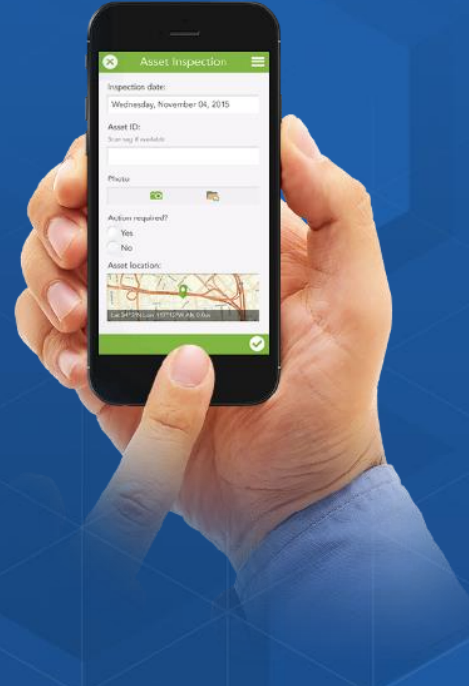
# Survey123 for ArcGIS (Beyond the basics)

San Diego. July 2017



**What is Survey123 all about?**

The image shows two overlapping paper survey forms. The top form is titled "Digital Asset Inspection Checklist" and includes fields for "Inspection Date", "Inspector", "Asset ID", and "Asset Location". It also has a section for "Inspection Results" with checkboxes for various conditions. The bottom form is titled "Getting to Know the Survey" and includes a section for "Inspection Results" with checkboxes for various conditions. Both forms are part of a digital asset inspection workflow.



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

A screenshot of the Survey123 Web Designer interface. The main window shows a form titled 'Bike Station Inspection' with a 'Submit' button. The right sidebar contains a 'Common Questions' panel with various question types: Singleline Text, Multiline Text, Single Choice, Multiple Choice, Dropdown, Rating, Number, Date, Time, GeoPoint, Image, Email, and Website. The top navigation bar includes 'Overview', 'Design', 'Collaborate', 'Analyze', and 'Data'. The bottom of the interface has 'Save', 'Preview', and 'Publish' buttons.



# 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



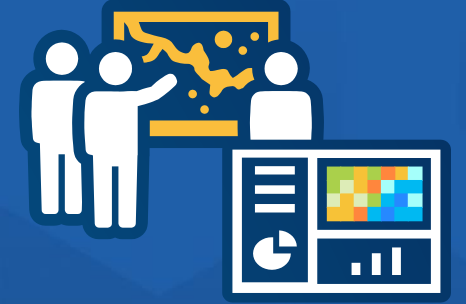
- **Survey123 WebForms**

- 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**

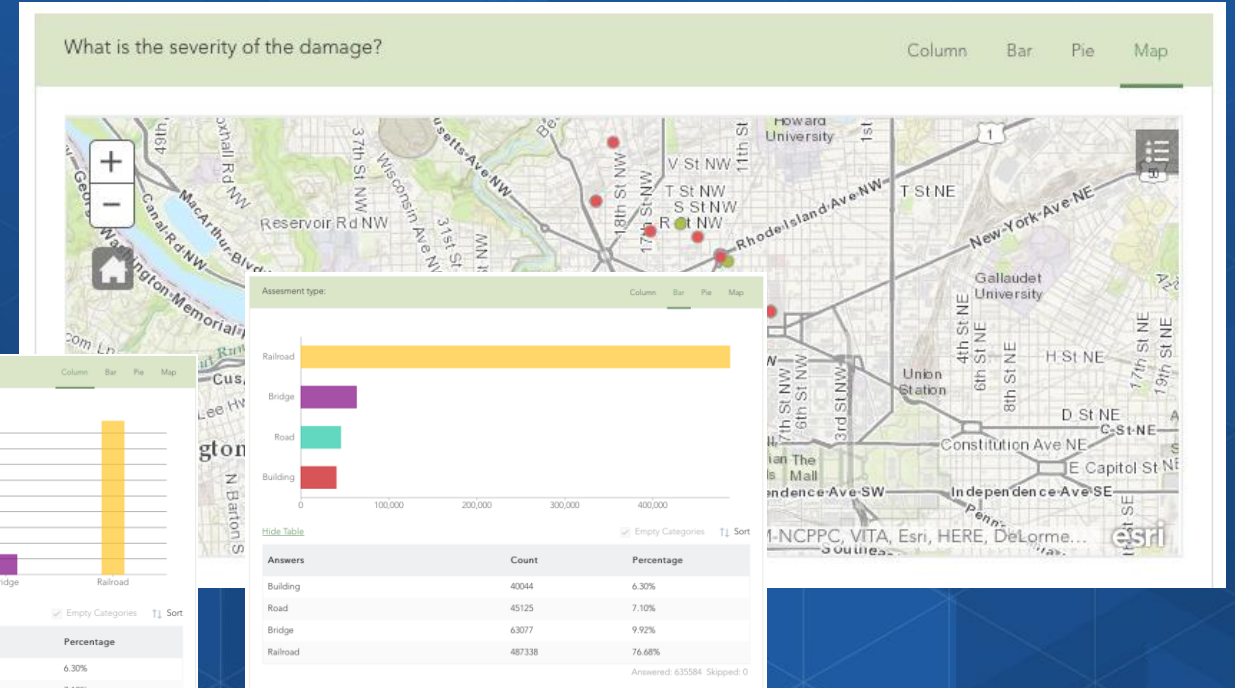
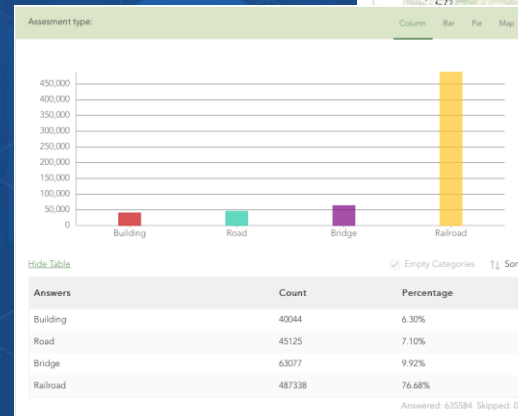
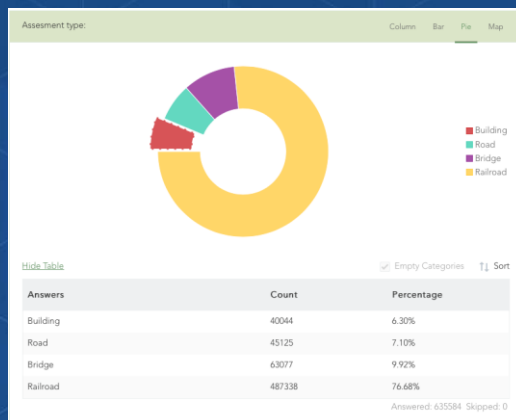
- Available for download (Google Play,iOS, Windows, Mac)
- Leverage device sensors (external GPS, camera etc)
- Can work Online and Offline
- Can add new data and update existing features.

# 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?**

Survey123



YES

Survey 123



NO



# 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**

# 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](#)

Water Waste Report - Excel

Table Tools

Ismael Chivite

File Home Insert Draw Page Layout Formulas Data Review View Design Tell me what you want to do Share

E18

	A	B	C	I	J
	type	name	label	appearance	default
1	begin group	GroupViolation	<center>Violation Details</center>		
2	dateTime	ReportDateTime	Date & Time Observed:		now()
3	select_multiple violationTypes	ViolationType	Type of Violation		
4	text	ViolationType_Other	Other Violation Description		
5	text	ReportNotes	Notes:	multiline	
6	image	ViolationPhoto	Photo		
7	geopoint	ViolationLocation	Location		
8	end group				
9					
10					
11	begin group	GroupViolator	<center>Offender Details</center>		
12	select_one responsiblePartyType	ResponsibleParty	Type	minimal	Residential
13	text	OffenderName	Offender's name		
14	select_one yes_no	OffenderPresent	Is Offender or Representative Present at Time of Report?	horizontal	
15	image	Signature	Signature	signature	
16	end group				
17	note	Note	<center><a href="tel:9093624397">Call water Department</a></center></n>		
18					

survey choices settings types

Ready

100%

XLSForm looks something like this

# 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



1

Download Survey123  
Connect (Windows |  
Mac | Linux)



2

Design Your Survey  
Watch video tutorials  
Get help with XLSForms



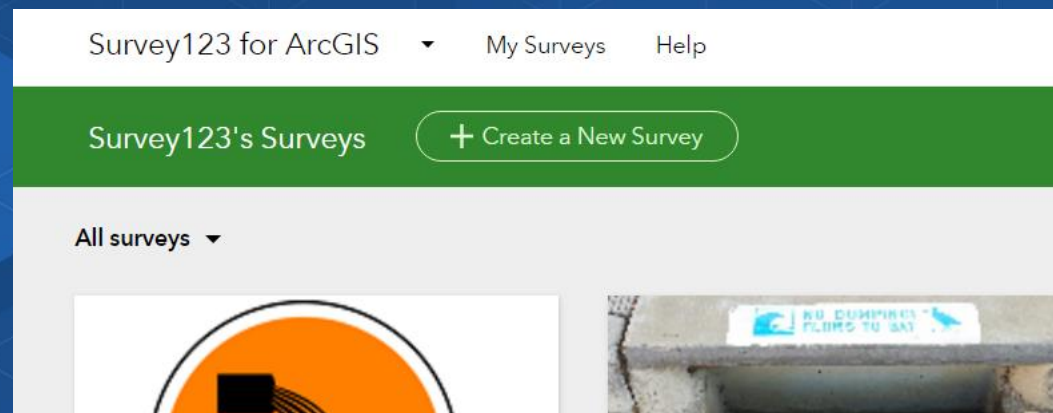
3

Publish it to Survey123  
for ArcGIS



# 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?

The image shows an Excel spreadsheet titled 'Water Waste Report - E...' by 'Ismael Chivite'. The spreadsheet is designed to create a form using XLSForm syntax. It features a table with three columns: A (type), B (name), and C (label). The table is divided into two main sections: 'Violation Details' and 'Offender Details'.

	A	B	C
1	type	name	label
2	begin group	GroupViolation	<center>Violation Details</center>
3	dateTime	ReportDateTime	Date & Time Observed:
4	select_multiple	violationTypes	Type of Violation
5	text	ViolationType_Other	Other Violation Description
6	text	ReportNotes	Notes:
7	image	ViolationPhoto	Photo
8	geopoint	ViolationLocation	Location
9	end group		
10			
11	begin group	GroupViolator	<center>Offender Details</center>
12	select_one	responsiblePartyType	Type
13	text	OffenderName	Offender's name
14	select_one yes_no	OffenderPresent	Is Offender or Representative Present at Time of Report?
15	image	Signature	Signature
16	end group		
17	note	Note	<center><a href="tel:909.362.4397">Call Water Department</a></center>
18			

The bottom of the spreadsheet shows a 'survey' tab and a status bar indicating 'Ready'.

Define your form in Excel  
using XLSForms syntax

The image shows the 'Survey123 Connect for ArcGIS' interface. The title bar indicates the application name. The main window displays a 'Form Preview' for a 'Water Waste Report'. The form is titled 'Violation Details' and includes the following fields:

- Date & Time Observed: 6/21/2017 9:19 PM
- Type of Violation: A list of checkboxes including Overwatering, Broken sprinkler, Time-of-day violation, Assigned day violation, Fountain/Water feature violation, Broken pipe or leak, Misting system violation, and Other (Description required).
- Notes: Optional

The bottom of the interface shows a status bar with a question mark icon, 'Load time on Windows 0.8 seconds', and a 'Validate Input' button.

Preview your XLSForm in Connect  
when happy... publish

# Demo



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