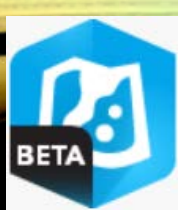




ArcGIS Pro



ArcGIS Online



Map Viewer



Living Atlas



App Studio



Solutions



Experience Builder



Insights



Operations Dashboard



Story Maps

MOBILE DATA COLLECTION, QA/QC, ANALYSIS, AND REPORTING

Leveraging Esri's online and desktop tools for data workflow

By Justin Welty (jwelty@usgs.gov)

USGS Ecologist, Forest and Rangeland Ecosystem Science Center, Boise, ID

Columbia River Inter-Tribal Fish Commission and

Inter-Tribal Monitoring Data Presentation – August 3rd, 2020



Hub



Developers



Quick Capture



Survey123



Workforce



Navigator



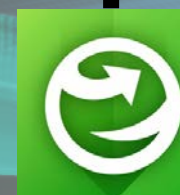
Field Maps



Collector



Tracker



Explorer

QUESTIONS

- Is there a good, easy geoprocessing tool for creating reports for export in pdf or word?
 - They allow you to do this in the Survey 123 web app, why don't they have it for other GIS Web Applications?

Reporting Tool YES! Easy and good? ehhhhhhhh

- Can we set up forms as a grid?
 - We work up multiple fish at once, collecting all lengths at once, then move on to the next data field

Kind of, there are other, non-Esri options out there

- How do we move from data collection forms (paper, regional electronic data capture, etc.) into Survey123?
 - The dos and don'ts, tips on planning the move, large issues to overcome, etc.

Do I know what not to do!



- Did you check out the 2020 Esri's Virtual User Conference?
 - Did you learn anything new about Survey123? What are some of the main features available?

Yes!

Survey123 Feature Report

Example Survey Report	
Site, Date, and Location Information	
Recorder: \${RecorderName}	Handler: \${HandlerName} Date: \${SurveyDate}
Site Location \${SiteLocation size:300:250}	Species Photo \${SpeciesPhoto size:300:250}
Species Information	
SubOrder - \${SubOrder}	Tare Bag Weight (g) - \${TareBagWeight_g}
Species - \${Species}	Weight (g) - \${Weight_g}
Disposition - \${Disposition}	Actual Weight (g) - \${Weight_g - TareBagWeight_g}
Sex - \${Sex}	PIT Tag - \${PITtag}
SVL (cm) - \${SVL_cm}	Blood Taken - \${BloodCollected}
	Tissue Taken - \${TissueCollected}

REPORT CREATION

Example Survey Report	
Site, Date, and Location Information	
Recorder: KP	Handler: KP Date: 05/07/2019 1:51 PM
Site Location 	Species Photo 
Species Information	
SubOrder - Snake	Tare Bag Weight (g) - 120
Species - Rattlesnake	Weight (g) - 280
Disposition - Released	Actual Weight (g) - 160
Sex - Male	PIT Tag - 989001026303391
SVL (cm) - 69	Blood Taken - No
	Tissue Taken - Yes



Survey123 Summary Report

REPORT CREATION

<summary>

CRP Fields Sampled 2016

Northwest CRP Records Selected:

<CRP_2016_Selected_Fields_Polygon|stats:<count,OBJECTID>

Northwest CRP Records Sampled:

<CRP_2016_Selected_Fields_Polygon | where:<Sampled=<Sampled>>|stats:<count,OBJECTID>

All CRP Records Selected:

<CRP_2016_Selected_Fields_Polygon | where:<1=<important>>|stats:<count,OBJECTID>

All CRP Records Sampled:

<CRP_2016_Selected_Fields_Polygon | where:<1=1 and Sampled=<Sampled> important>|stats:<count,OBJECTID>

Idaho Records Sampled:

<CRP_2016_Selected_Fields_Polygon | where:<State=<ID> and Sampled=<Sampled>>|stats:<count, State>

Sampled Field ID: 01	<CRP_2016_Selected_Fields_Polygon where:<State=<ID> and Sampled=<Sampled> and CP_Code=<1> important> stats:<count, State>> out of <CRP_2016_Selected_Fields_Polygon where:<State=<ID> and CP_Code=<1> important> stats:<count, State>> total
Sampled Field ID: 02	<CRP_2016_Selected_Fields_Polygon where:<State=<ID> and Sampled=<Sampled> and CP_Code=<2> important> stats:<count, State>> out of <CRP_2016_Selected_Fields_Polygon where:<State=<ID> and CP_Code=<2> important> stats:<count, State>> total
Sampled Field ID: 10	<CRP_2016_Selected_Fields_Polygon where:<State=<ID> and Sampled=<Sampled> and CP_Code=<10> important> stats:<count, State>> out of <CRP_2016_Selected_Fields_Polygon where:<State=<ID> and CP_Code=<10> important> stats:<count, State>> total

CRP Fields Sampled 2016

Northwest CRP Records Selected: 281

Northwest CRP Records Sampled: 221

All CRP Records Selected: 2734

All CRP Records Sampled: 1500

Idaho Records Sampled: 221

Sampled Field ID: 01	16 out of 28 total
Sampled Field ID: 02	18 out of 25 total
Sampled Field ID: 10	18 out of 28 total
Sampled Field ID: 38	19 out of 30 total
Sampled Field ID: 42	19 out of 30 total
Sampled Field ID: 4D	20 out of 29 total

Oregon Records Sampled: 111



*Preliminary Information-Subject to Revision. Not for Citation or Distribution.

REPORT CREATION

Survey123 reports using non-Survey123 data

New Survey - Survey123 Connect for ArcGIS

New Survey

Title

CRP Data Collection 2016

Table name will be: **CRP_Data_Collection_2016**

Select an initial XLSForm design

- ☐ Templates
- ☐ Samples
- ☐ Community
- ☐ My Surveys
- ☐ My Organization
- ☒ Feature Service
- ☐ File

CRP

CRP_2016_Selected_Fields_Centroids

Modified: Wednesday, May 17, 2017 2:40:36 PM Mountain Daylight Time

Type: Feature Service

Owner: jwelly_USGS

Access: shared

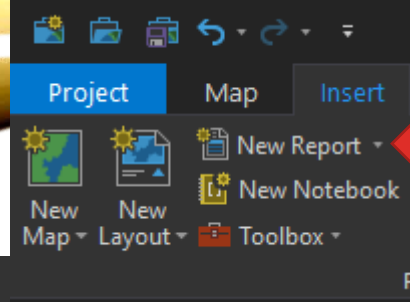
CRP_2016_Selected_Fields_Polygons

JW Justin Welty

Create Survey Cancel



ArcGIS Pro/ArcMap Feature Report/ Summary Report



REPORT CREATION

Drawing Order

- CRP_2016_Selected_Fields_Polygon Report1
 - Report Header
 - Report Header Title Text
 - Report Footer Count Text
 - Report Footer Date Exported Text
 - Report Footer Report Totals Label
 - Report Footer Field Statistic Label
 - Report Footer Field Statistic Text
 - Report Footer Line
 - Report Footer Line 1
 - Report Footer Line 2
 - Page Header
 - Group Header: State
 - Group Header: Sampled
 - Details
 - Group Footer: Sampled
 - B87AAA1453E248EDAFE0469C585C76E0-G
 - Group Footer: Count Label 2
 - Group Footer: Statistics Label 1
 - Group Footer: Count Label 1
 - Group Footer: Field Statistic Label 2
 - Group Footer: Field Statistic Text 2
 - Group Footer: Line 3
 - Group Footer: Line 4
 - Group Footer: State
 - Page Footer
 - Report Footer

CRP Fields Sampled by State

Report Totals Date Exported: 7/23/2020 7:34 AM

Count: {COUNT:Sampled}

Statistics: {Sampled}

Count: {COUNT:Sampled}

Sampled: {COUNT:Sampled}

Statistics: {State}

Count: {COUNT:Sampled}

Sampled (Count): {COUNT:Sampled}



Page: (Current Page) of (Total Pages)

CRP Fields Sampled by State	
Report Totals	
Total Fields Sampled: 2735	
Date Exported: 7/21/2020 1:33 PM	
Count: CO	174
Count: IA	256
Count: ID	170
Count: KS	264
Count: MN	229
Count: MO	226
Count: MT	193
Count: ND	253
Count: NE	229
Count: OK	112
Count: OR	111
Page 2 of 4	

FORMS AS A GRID

Survey123

Fish Species Information			
Fish Species 1 Salmon	Pit Tag Species 1 1234	Fish 1 Length (mm) 689	Fish 1 Mass (g)
Fish Species 2 Salmon	Pit Tag Species 2 235	Fish 2 Length (mm) 750	Fish 2 Mass (g)
Fish Species 3 Bass	Pit Tag Species 3	Fish 3 Length (mm) 337	Fish 3 Mass (g)
Fish Species 4 Bluegill	Pit Tag Species 4	Fish 4 Length (mm)	Fish 4 Mass (g) 10
Fish Species 5 Salmon	Pit Tag Species 5	Fish 5 Length (mm)	Fish 5 Mass (g) 150

 1 of 1 



FORMS AS A GRID

Survey123

Not a Great Way to Store Data

id	Fish1	PITtag1	Length1	Mass1	Fish2	PITtag2	Length2	Mass2	Fish3	PITtag3	Length3	Mass3	Fish4	PITtag4	Length4	Mass4	Fish5	PITtag5	Length5	Mass5
1	Salmon	1234	689		Salmon	235	750		Bass		337		Bluegill			10	Salmon			150
2	Salmon	3568	874	112	Bass		234	58	Bluegill	99876		27	Salmon				Salmon	55686	555	140

id	Fish	PITtag	Lengh	Mass
1	Salmon	1234	689	
2	Salmon	235	750	
3	Bass		337	
4	Bluegill			10
5	Salmon			150



FORMS AS A GRID

Survey123 - Ideally we want stacked repeats

Appearance option to view Repeats stacked in Survey123 app

Idea created by [beasleyc](#) on Jun 1, 2017

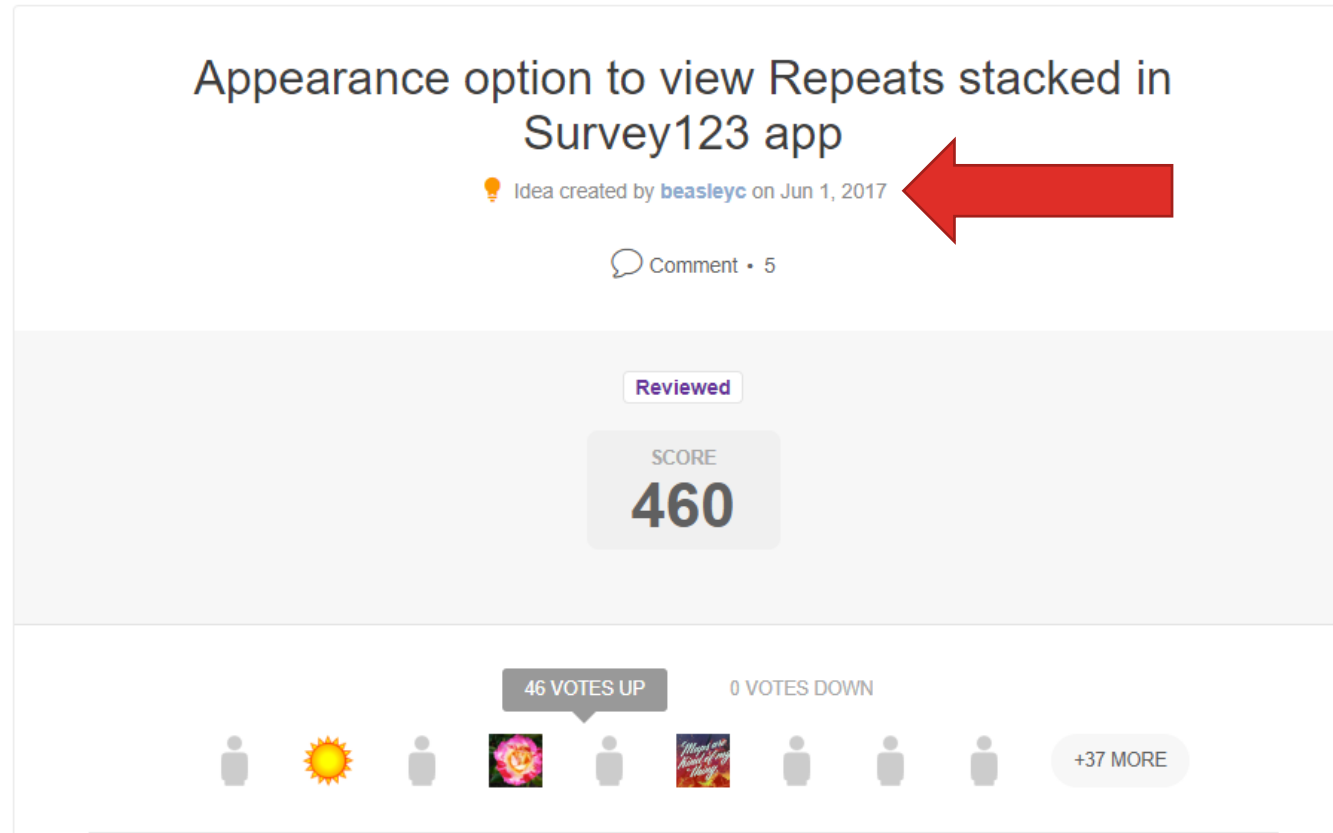
Comment • 5

Reviewed

SCORE
460

46 VOTES UP 0 VOTES DOWN

+37 MORE



FORMS AS A GRID

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Add Frog	Date	Now	New Site	Last Date	Last Site	Previous	Previous Year's	Recap	Sex	Weight	Tare	SVL_		
1	Tag ID	Scanned	Site	This Year	This Year	Year	Site	M(0)	F(0)	_g	_g	mm	Notes	2019 Site Visit	Times Frog
								R(1)	M(1)					Frog Count	Caught 2019
619	985.120028921209	7/27/19 10:58 AM	Frog Pond	-	-	2011	Frog Pond Lake	R	M	33	7	66		1	1
620	982.000356871216	7/27/19 11:00 AM	Frog Pond	-	-	2012	Frog Pond Lake	R	M	30	5.5	63		1	1
621	982.000356902375	7/27/19 11:01 AM	Frog Pond	-	-	2018	Frog Pond Lake	R	F	36	10	71		1	1
622	985.120028926407	7/27/19 11:01 AM	Frog Pond	-	-	2013	Frog Pond Lake	R	M	31	9	63		1	1

Light Version

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		Date	Year	Month	Ordinal						Recap					
1	Tag ID	Scanned	Scanned	Scanned	Day	Site	First Capture	First Capture Site	Previous	Previous Year's	M or	Sex F	Weight	Tare	SVL_	Notes
					Scanned		Date This Year	This Year	Year	Site	R	or M	_g	_g	mm	
2	124.0000000000000	10/8/19 14:11:49	2019	10	282	Test					M					
3	125.0000000000000	10/8/19 14:12:17	2019	10	282	Test					M					
4	345.0000000000000	10/9/19 6:44:50	2019	10	282	Test					R					
5	456.0000000000000	10/9/19 7:08:42	2019	10	282	Check					M					
6	999.0000000000000	10/9/19 7:08:49	2019	10	282	Check					M					
7	124.0000000000000	10/9/19 7:15:33	2019	10	282	Check	10/8/19 14:11:49	Test			M					
8	124.0000000000000	10/9/19 9:06:33	2019	10	282	Check	10/8/19 14:11:49	Test			R					
9	985.170001775792	10/9/19 12:23:43	2019	10	283	Check			2018	Bob Lake	M	F				



S. Adams E-mail: SCOTTADAMS@aol.com



W/C © 1995 United Feature Syndicate, Inc.(NYC)



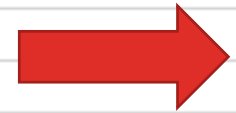
DNS

- Expect mistakes and errors
 - From the project lead, field crew, and designer
 - Take advantage of field validation, relevant fields, required fields, calculations, and select lists whenever possible
- Google is my best friend
 - Whatever problem you have, someone has had it before you and posted the code up on the web



- I listen to both the experts and field
 - You can create the form, let the experts tell you how to design it
- Reduce, Reuse, Recycle
 - Copy/Paste is my favorite invention ever
- Plan and check your domains/choices
- Never make changes the morning of
- Have a paper notebook and backup form

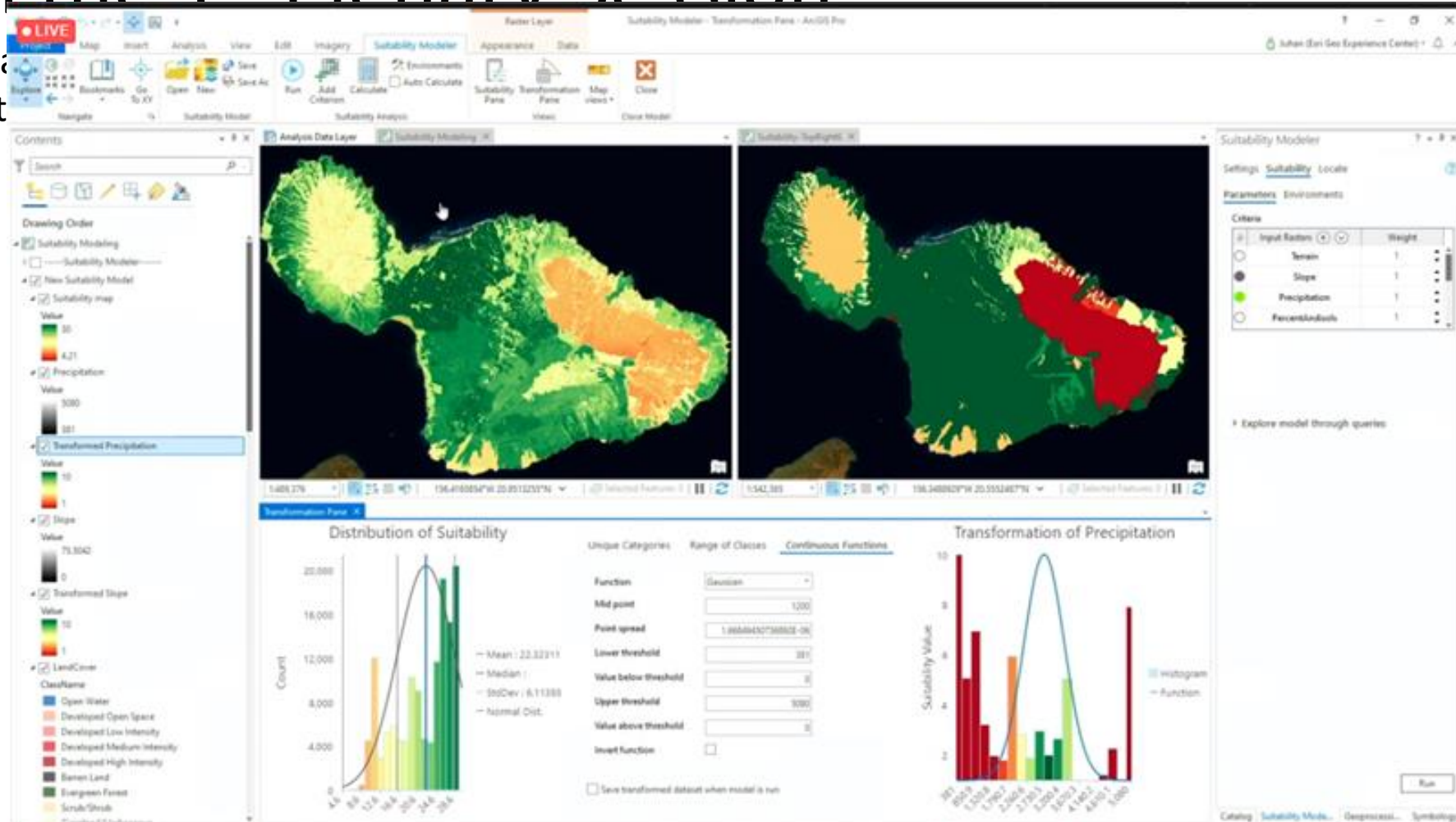
list_name	name	label
grasscover		0 0%
grasscover		2.5 1%-5%
grasscover		2.5 5%-10%
grasscover		15 10%-20%
grasscover		25 20%-30%
grasscover		35 30%-40%
grasscover		45 40%-50%
grasscover		55 50%-60%
grasscover		65 60%-70%
grasscover		75 70%-80%
grasscover		85 80%-90%
grasscover		92.5 90%-95%
grasscover		97.5 95%-100%
grasscover		100 100%



ESRI USER CONFERENCE HIGHLIGHTS

- Watch the 1st Plenary Session

- It's free and
- The Rest





ESRI USER CONFERENCE HIGHLIGHTS

- Watch the 1st plenary session
 - It's free and jaw dropping
 - The Raster Suitability Tool (coming soon) could change how we do restoration and site selection
- Esri continues to improve...everything



COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Organizing your survey
 - Pages
 - Grids
 - Collapsed Groups
 - Dynamic Labels




COOL STUFF TO SHOW YOU


<https://community.esri.com/videos/6246>

Survey123

- Organizing your survey
 - Pages**
 - Grids
 - Collapsed Groups
 - Dynamic Labels



	A	G	H
1	form_title	style	
2	My Survey	pages	
3			
.			
	survey	choices	settings
			types



	A	B	C	I
1	type	name	label	appearance
2	begin group	PolyExampleStart	Polygon Map	field-list
3	username	UserName	User Name	



COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Organizing your survey
 - Pages
 - Grids
 - Collapsed Groups
 - Dynamic Labels

My Survey	
Polygon Map	
User Name	jwelry_USGS
Device ID	0eaa9a2a167a497eb79af51fda0abf7
1 of 5 >	




COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Organizing your survey
 - Pages
 - **Grids**
 - Collapsed Groups
 - Dynamic Labels



	A		H
1	form_title	style	
2	My Survey	theme-grid pages	
3			
.			
	survey	choices	settings
			types

COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Organizing

- Pages

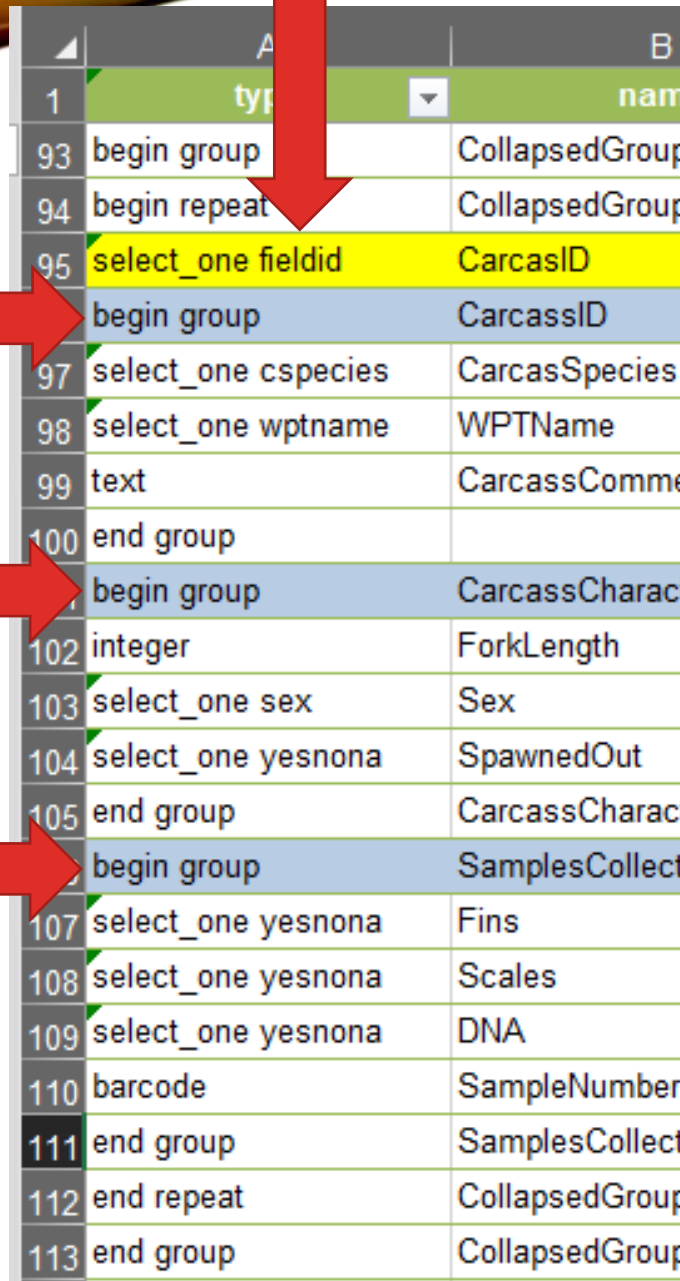
- Collapsing

- Synchronizing

	A	B	C	I
1	type	name	label	appearance
33	begin group	GridExampleStart1	Example of Using Grids	w5 field-list
34	note	GridNote2	The second page demonstrates how to assemble one or more	w5
35	<i>begin repeat</i>	RepeatStart	LPI Vegetation	w5
36	begin group	InsideRepeatGroup		w5 compact
37	select_one species	TopHit	Top Hit	w2 minimal
38	integer	TopHitHeight_m	Top Hit Vegetation Height (m)	w1
39	select_one yes_no	TopHitDead	Top Hit Dead Shrub	w2 horizontal-compact
40	end group	InsideRepeatGroupEnd		
41	begin group	MidCanopyStart	Mid Canopy Hits	w5 compact

Survey123

- Organizing your survey
 - Pages
 - Grids
 - **Collapsed Groups**
 - Dynamic Labels



The screenshot shows a Survey123 form design grid. A red arrow points to the 'type' column header. Another red arrow points to the 'begin group' row for 'CarcassID'. A third red arrow points to the 'begin group' row for 'CarcassCharacteristics'. A fourth red arrow points to the 'begin group' row for 'SamplesCollection'. The grid contains the following rows:

	A	B
1	type	name
93	begin group	CollapsedGroup
94	begin repeat	CollapsedGroup
95	select_one fieldid	CarcassID
	begin group	CarcassID
97	select_one cspecies	CarcassSpecies
98	select_one wptname	WPTName
99	text	CarcassComme
100	end group	
	begin group	CarcassCharac
102	integer	ForkLength
103	select_one sex	Sex
104	select_one yesnona	SpawnedOut
105	end group	CarcassCharac
	begin group	SamplesCollect
107	select_one yesnona	Fins
108	select_one yesnona	Scales
109	select_one yesnona	DNA
110	barcode	SampleNumber
111	end group	SamplesCollect
112	end repeat	CollapsedGroup
113	end group	CollapsedGroup



COOL STUFF TO SHOW YOU

Survey123

- Organizing your survey
 - Pages
 - Grids
 - Collapsed Groups
 - **Dynamic Labels**



COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Identify the computer



	A	B	C	K	L	M
1	type	name	label	readonly	relevant	calculation
2	be group	PolyExampleStart	Polygon Map			
3	us me	UserName	User Name			
4	te	VisibleUsername	User Name	yes		\${UserName}
5	de d	DeviceID	Device ID			
6	te	VisibleDeviceID	Device ID	yes		\${DeviceID}
7	te	ComputerName	Computer Name	yes		pulldata('computername', 'ComputerName', 'DeviceID', \${DeviceID})
8	email	UserEmail	User Email			
9	text	VisibleEmail	User Email	yes		\${UserEmail}



COOL STUFF TO SHOW YOU

<https://community.esri.com/videos/6246>

Survey123

- Identify the computer

	A	B	C
1	type	name	label
2	begin group	PolyExampleStart	Polygon Map
3	username	UserName	User Name
4	text	VisibleUsername	User Name
5	deviceid	DeviceID	Device ID
6	text	VisibleDeviceID	Device ID
7	text	ComputerName	Computer Name
8	email	UserEmail	User Email
9	text	VisibleEmail	User Email

User Name
jwelty_USGS

Device ID
0eaa9a2a167a497eb7b9af51fda0abf7

Computer Name
Flicker

User Email
jwelty@usgs.gov

1	Device
2	0eaa9
3	0eaa9

Survey123

- Points, Lines, &

Name		
begin group		PLP
geoint		Poi
select_one sketch_type		Ske
geolace		Line
select_one sketch_type		Ske
geoshape		Pol
end group		PLP





Survey123

- Interactive images

type	
select_one	soildiagram





Survey1

- Photo wa



type	
calculate	S
image	S

DU
[246](#)

ers	
Mark}	



Survey123

- Javascript
- Pull Data

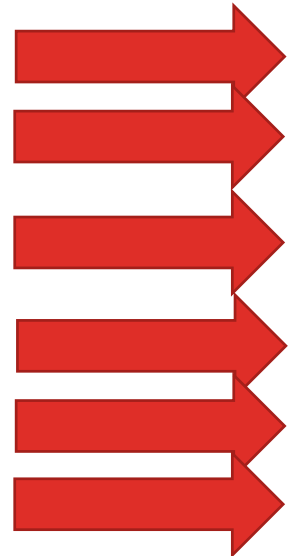
type	name
calculate	Token
text	Location
text	BarCode
text	Common

```
function runFSQuery(ID, Token){
    var xmlhttp = new XMLHttpRequest();
    var token = Token
    var url = "https://services.arcgis.com/v01gqwM5QqNysAAi/arcgis/rest/services/SeedSpecies/FeatureServer/0/"
        + "query?where=LocationRow+%3D+%27"
        + ID
        + "%27&objectIds=&time=&resultType=none&outFields=Barcode%2C+CommonName%2C+LocationRow&returnH
        iddenFields=false&returnIdsOnly=false&returnUniqueIdsOnly=false&returnCountOnly=false&returnDi
        stinctValues=false&cacheHint=false&orderByFields=&groupByFieldsForStat
        istics=&outStatistics=&having=&resultOffset=&resultRecordCount=&sqlFormat=none&f=pjson"
        + "&token=" + token
    xmlhttp.open("GET",url,false);
    xmlhttp.send();
    if (xmlhttp.status!=200){
        return "Error"
    } else {
        var response;
        if (response){
            return response
        } else {
            if (re
        }
    }
}
```



COOL STUFF TO SHOW YOU

Collector

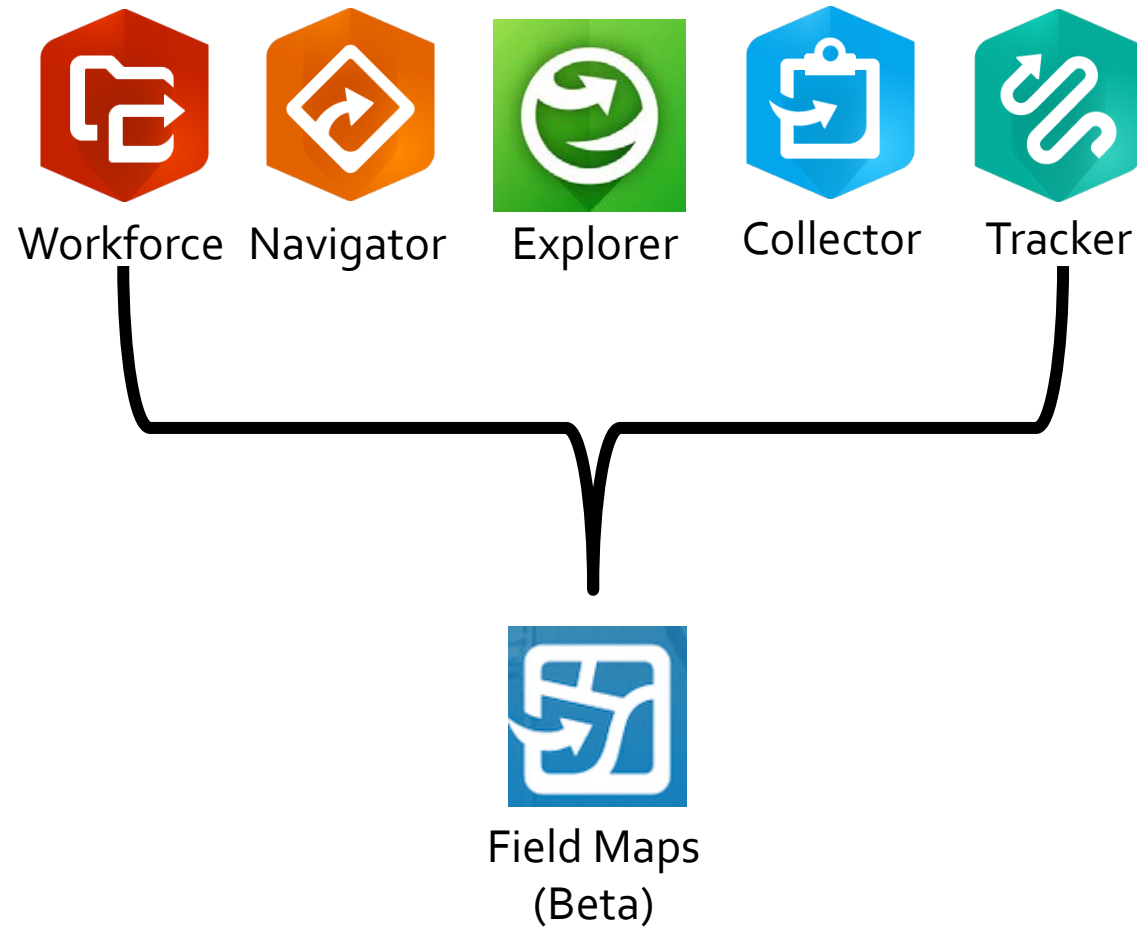


Collector (new one)	Collector Classic (old one)
Android and iOS	Android, iOS, and Windows
Web map labels work!	No web map labels
Multiple download areas <ul style="list-style-type: none">• Predefined and on-the-fly	One download area
Compass feature to location widget	Who knows which way you're going
Modern interface	Clunky interface
More layer types supported	Less layer types supported



COOL STUFF TO SHOW YOU

Field Maps





COOL STUFF TO SHOW YOU

High Accuracy GPS

<https://doc.arcgis.com/en/collector/android-phone/help/high-accuracy-prep.htm>

Tips from reading the documents

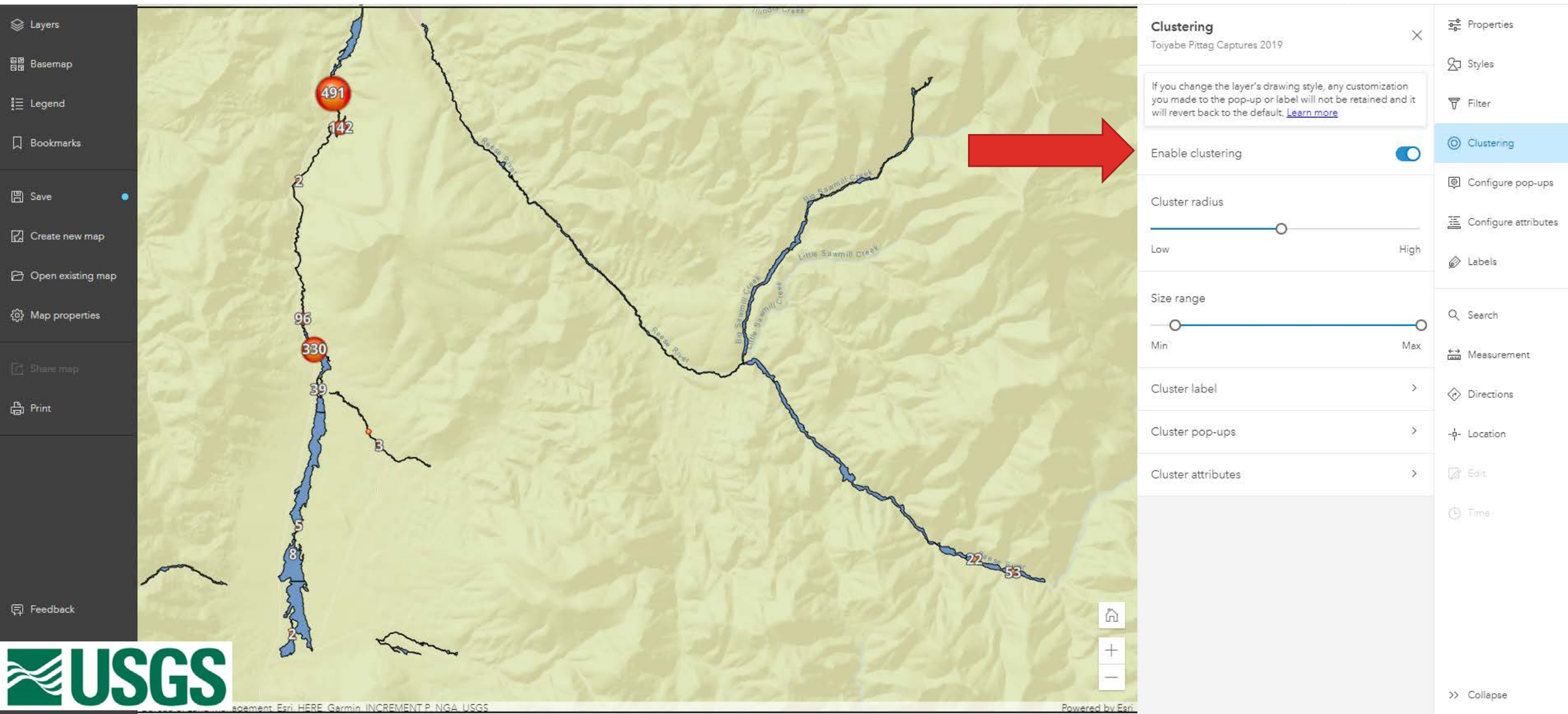
- Please read the documentation carefully

Tips from folks who've used them

- They generally work great when paired properly
- Collect the GPS metadata questions
- Be patient while acquiring a GPS location
- Set the GPS accuracy to the proper setting

Map Viewer Beta

COOL STUFF TO SHOW YOU



The screenshot displays the USGS Map Viewer Beta interface. On the left is a dark sidebar with navigation options: Layers, Basemap, Legend, Bookmarks, Save, Create new map, Open existing map, Map properties, Share map, Print, and Feedback. The main area shows a topographic map of a river system with several red circular markers containing numbers (491, 142, 96, 330, 39, 5, 8, 2, 3, 22, 53). A large red arrow points from the map to the 'Clustering' settings panel on the right. This panel includes a toggle for 'Enable clustering' (which is turned on), a 'Cluster radius' slider (set between Low and High), and a 'Size range' slider (set between Min and Max). Below these are expandable sections for 'Cluster label', 'Cluster pop-ups', and 'Cluster attributes'. A right-hand sidebar contains additional tools: Properties, Styles, Filter, Clustering (highlighted), Configure pop-ups, Configure attributes, Labels, Search, Measurement, Directions, Location, Edit, Time, and a Collapse button. The USGS logo is in the bottom left corner, and 'Powered by Esri' is in the bottom right corner.

Layers

Basemap

Legend

Bookmarks

Save

Create new map

Open existing map

Map properties

Share map

Print

Feedback

USGS

Clustering

Toiyabe Pittag Captures 2019

If you change the layer's drawing style, any customization you made to the pop-up or label will not be retained and it will revert back to the default. [Learn more](#)

Enable clustering

Cluster radius

Low High

Size range

Min Max

Cluster label

Cluster pop-ups

Cluster attributes

Properties

Styles

Filter

Clustering

Configure pop-ups

Configure attributes

Labels

Search

Measurement

Directions

Location

Edit

Time

Collapse

Powered by Esri



COOL STUFF TO SHOW YOU



ArcGIS Online

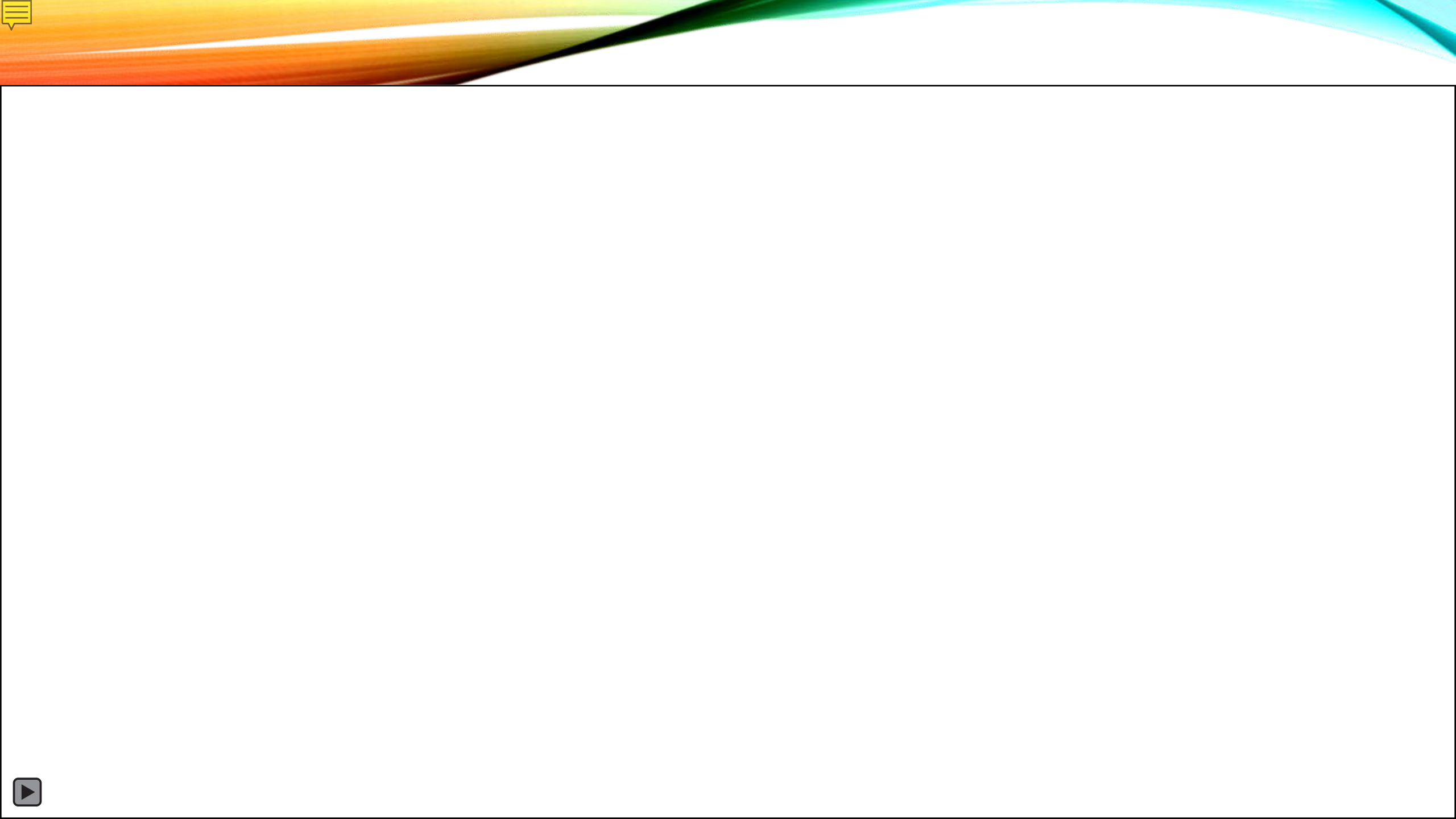
What are you taking a picture of?	Specify other.	Pole / landscape Photo Description	Mortality Comments	Site Comments	Carcass Identification Number	LabSpeciesIdentified	LabComments
Pole			head was seperated from body	road-20m fencing-25m	JV-060520-NES-01	Golden Eagle	
Pole			little baby bird	road-5m fencing-15m	JV-060520-NES-02	Kangaroo Rat, suspect	
Pole				road-15m fencing-20m	JV-060520-NES-03	Jackrabbit	
Pole				road 6m away	JV-040320-NES-01	Common Raven, suspect	Single primary feather, color and length match CORA
Pole				road 45m fencing 38	JV-061220-NES-01	Jackrabbit	
Pole				Fence 7 meters away. Road 35 meters away.	JV-061220-SJP-03	Jackrabbit	

COOL STUFF TO SHOW YOU

ArcGIS Pro

- So many tools
- Access AGOL layers
- Graphing Capabilities



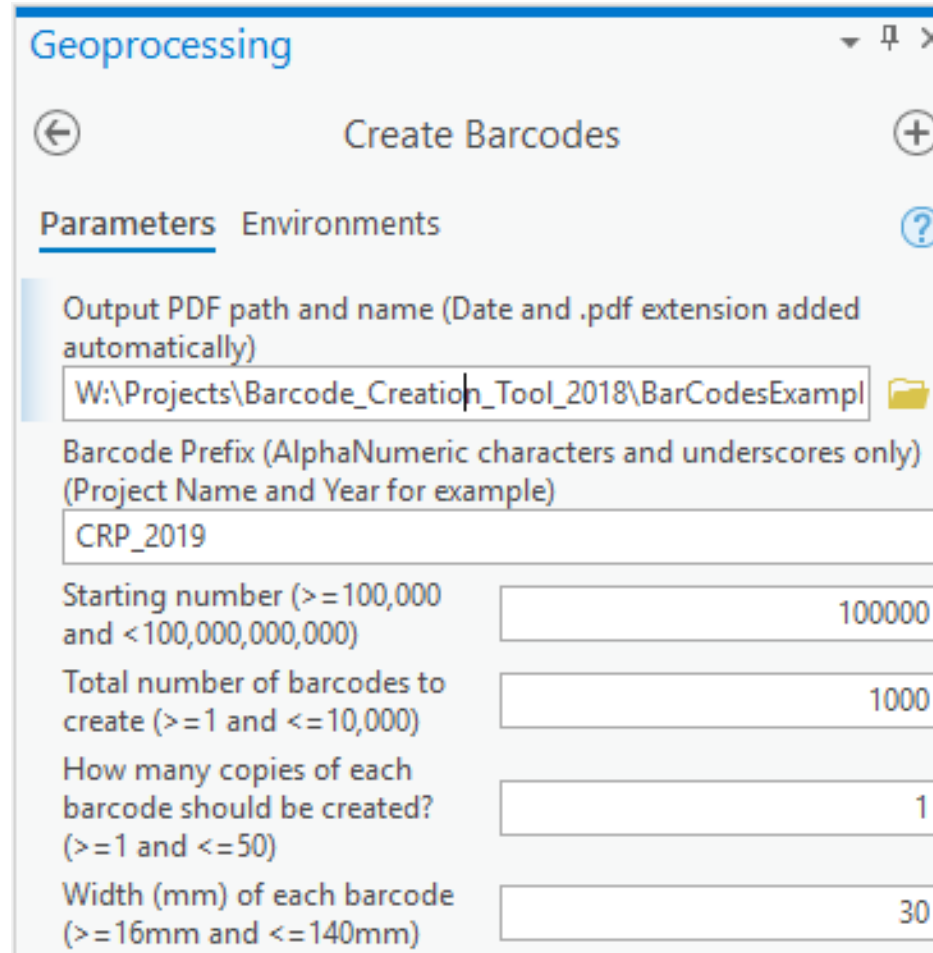


COOL STUFF

Design your own

- App Studio (desktop)
- Python (desktop)
- Developers (web)
- Solutions (web)

<https://code.usgs.gov/ecosystems/FRESC/arcgis-pro-custom-barcode-creation-tool>

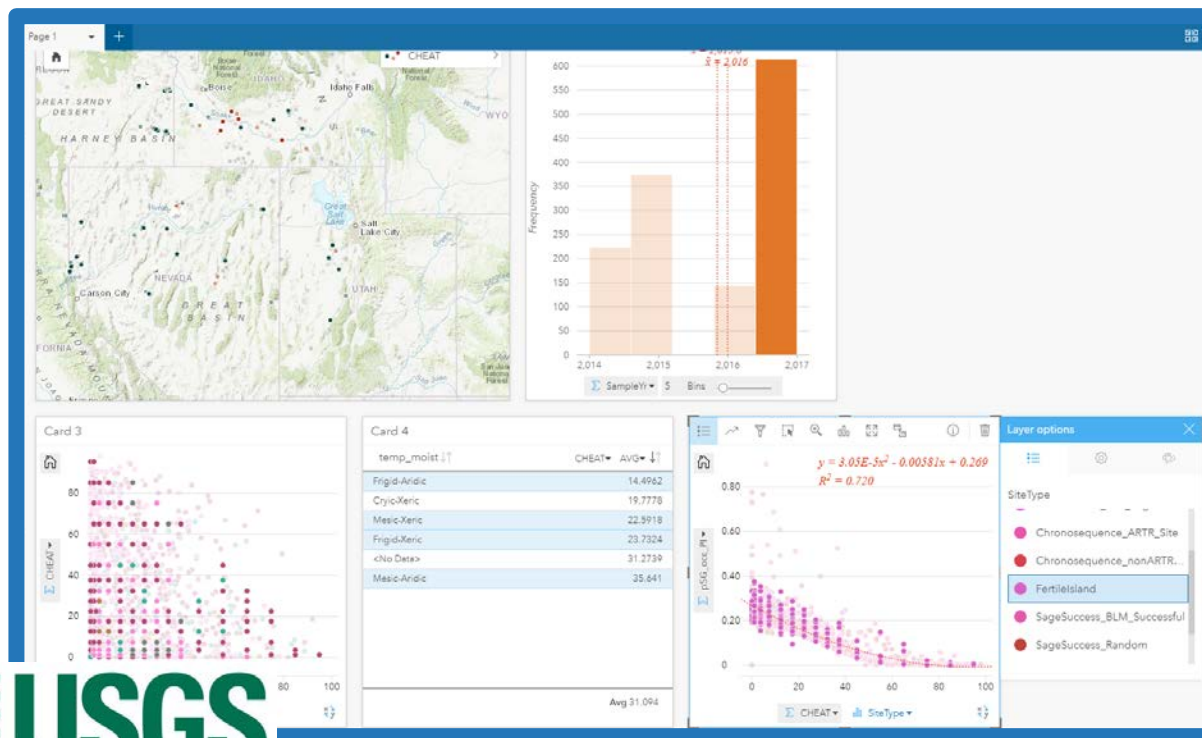
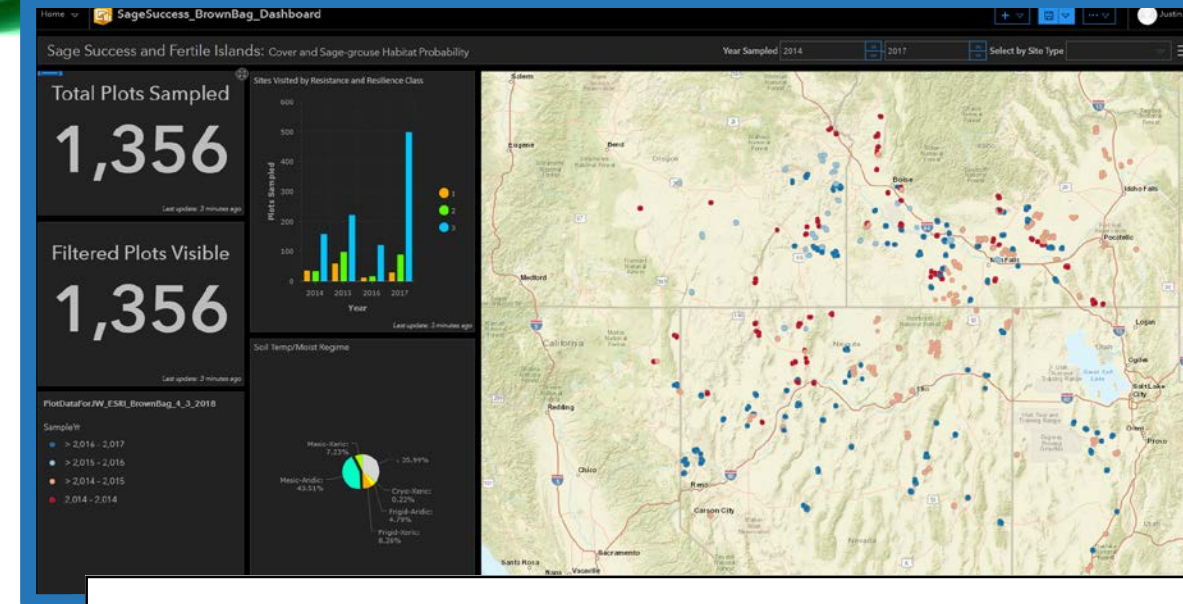


The screenshot shows the 'Geoprocessing' window with the 'Create Barcodes' tool selected. The 'Parameters' tab is active, displaying the following fields:

- Output PDF path and name** (Date and .pdf extension added automatically): (with a folder icon to the right)
- Barcode Prefix** (AlphaNumeric characters and underscores only) (Project Name and Year for example):
- Starting number** ($\geq 100,000$ and $< 100,000,000,000$):
- Total number of barcodes to create** (≥ 1 and $\leq 10,000$):
- How many copies of each barcode should be created?** (≥ 1 and ≤ 50):
- Width (mm) of each barcode** ($\geq 16\text{mm}$ and $\leq 140\text{mm}$):

Analyze and Share your data

- Insights (similar to Tableau or Power BI)
- Operations Dashboard
- StoryMaps

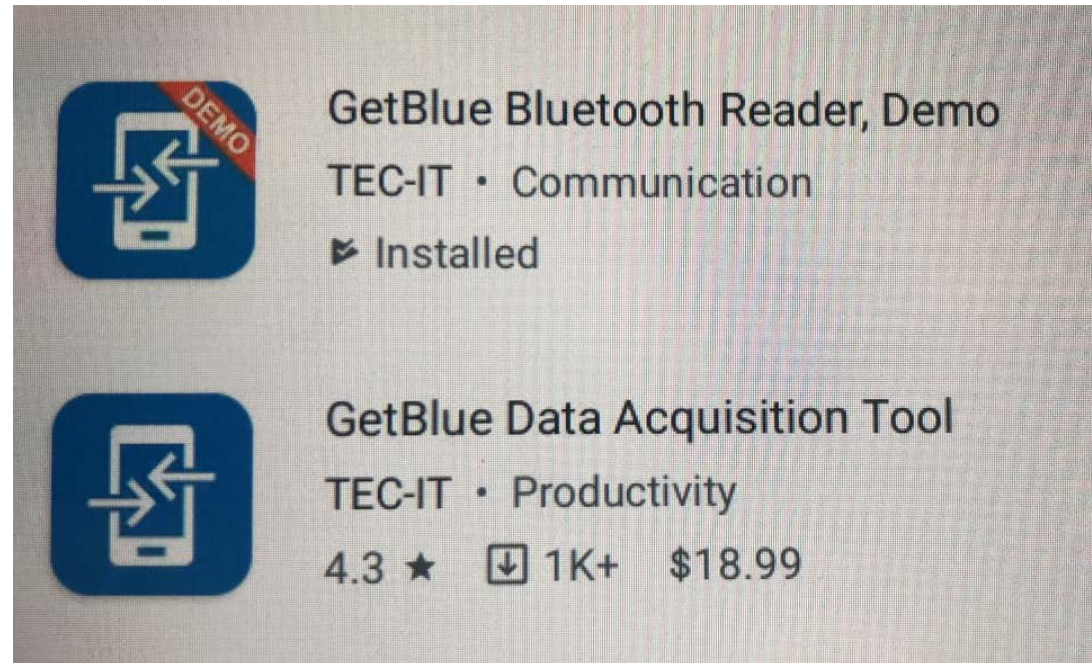




COO

DU

PIT Tag Direct to Android

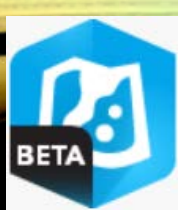




ArcGIS Pro



ArcGIS Online



Map Viewer



Living Atlas



App Studio



Solutions



Experience Builder



Insights



Operations Dashboard

QUESTIONS?

JWELTY@USGS.GOV



Hub



Developers



Story Maps

*Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. government.



Quick Capture



Survey123



Workforce



Navigator



Field Maps



Collector



Tracker



Explorer



Survey123

- Add Basemaps
 - Via AGOL
 - Direct Download





COOL

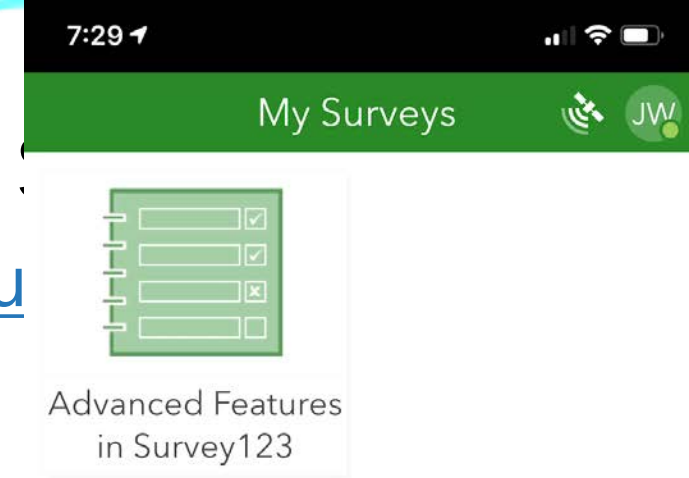
<https://commu>

YOU

[/6246](#)

Survey123

- Add Basemaps (MMPK, Tile map package, or Vector map)
 - Via AGOL
 - Direct Download





SHOW YOU

Quick Capture

- Rapid data collection
- Big button
- Point, line, polygon locations
- Records line walked





ArcGIS Pro



ArcGIS Online



Map Viewer



Living Atlas



App Studio



Solutions



Experience Builder



Insights



Operations Dashboard



Story Maps



Hub



Developers



Quick Capture



Survey123

IT'S ALL CONNECTED

