

# ArcGIS Survey123: Working with Online Surveys

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# We want your feedback

Click on the [Session Survey link](#)  
below this video window



# Agenda

- **Why online surveys?**
  - **Creating online surveys with the Survey123 web designer**
  - **Sharing your online surveys**
  - **Advanced topics: URL query parameters and the Survey123 web app JavaScript API**
  - **Where to learn more**
- 





**Why online surveys?**

# Spaces for people

- The Glasgow City Council made an effort to increase public spaces for walking, wheeling and cycling during COVID-19.
- Should these measures remain?
- Now seeking input from citizens using an online Survey123 form.



## Spaces for People

### Overview

#### Keeping People Safe and Supporting Business Recovery

Temporary travel infrastructure that provides additional public space for walking, wheeling and cycling during COVID-19 has been introduced across Glasgow, with remaining programme measures due to be completed soon.

An online Spaces for People consultation survey has also opened recently (12 May 2021), seeking views on the infrastructure delivered and whether any should be retained permanently. You can find out more about this review process and share your opinions by clicking on [this link](#).

#### Spaces for People

Glasgow City Council has introduced a variety of changes on roads and footways across the city through the Scottish Government's Spaces for People Programme, which aims to support public health by providing additional space for physical distancing while undertaking essential journeys or exercise during the COVID-19 pandemic. Further information can be found [here](#).

The purpose of this survey is to allow you to inform the Council about how you have used these spaces, provide feedback on them and tell us if you would like any of the measures introduced to become permanent.

If you are under 16, you should seek a parent or guardians' permission to complete the survey.

It is estimated to take 5 mins to complete the survey. Some additional questions may appear based on your answers.

#### Data Protection

We may share your response with carefully selected third party suppliers (data processors) working on our behalf. Glasgow City Council is committed to protecting your privacy and personal data, working in full compliance with Data Protection legislation. Your answers will be used to produce (anonymous) statistical information. For more information click [here](#).

#### COVID-19

We appreciate that the Covid-19 restrictions and changes to life in recent months may affect your response but please base your answers on your current behaviours and attitudes (in the past 6 weeks).

#### Who are you?\*

Please tell us who are you responding to this survey on behalf of:

Myself

Local small Business.

Interested Group - community group/community council

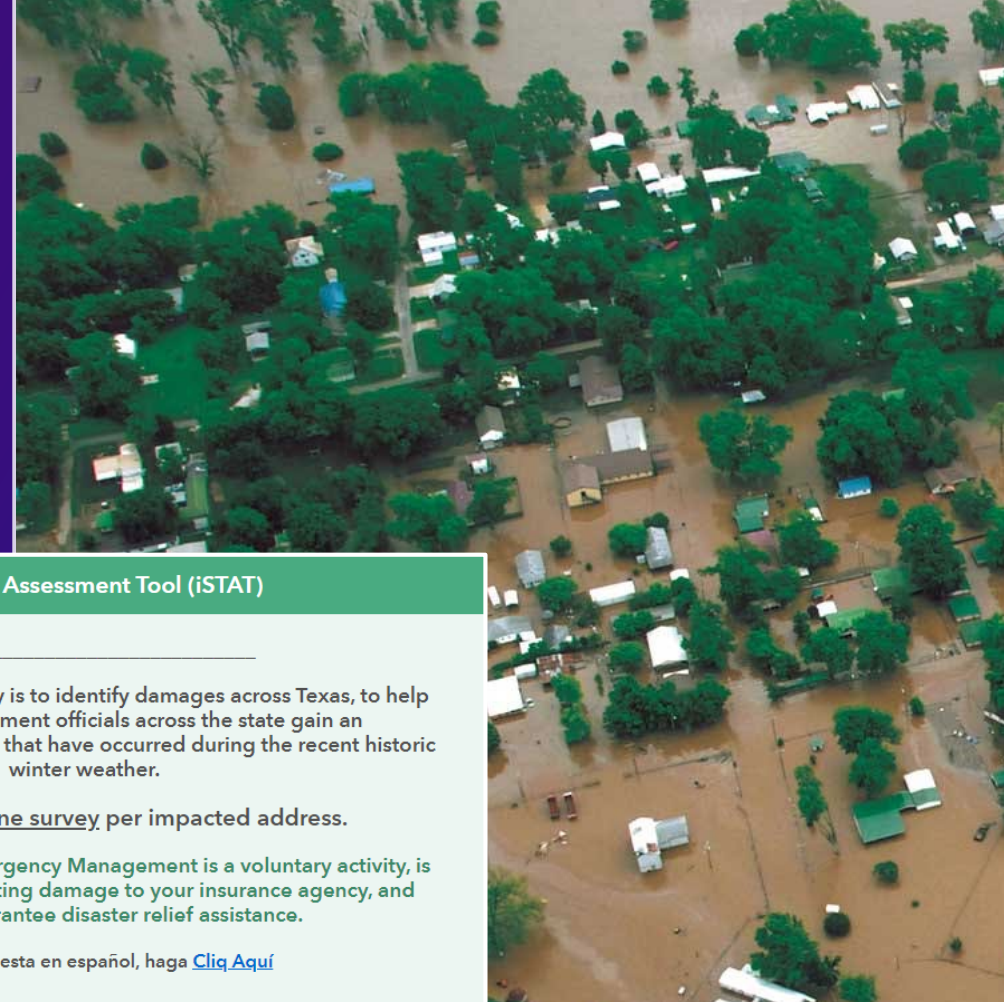
Interested Group - walking group





# Damage in your property?

- Severe winter weather caused great damage in Oklahoma and Texas.
- Online surveys allowed citizens to self-report damage in their property to facilitate recovery efforts.



**Individual State of Texas Assessment Tool (iSTAT)**

The objective of this survey is to identify damages across Texas, to help emergency management officials across the state gain an understanding of damages that have occurred during the recent historic winter weather.

Please submit one survey per impacted address.

Reporting damage to Emergency Management is a voluntary activity, is not a substitute for reporting damage to your insurance agency, and does not guarantee disaster relief assistance.

Para la encuesta en español, haga [Clic Aquí](#)

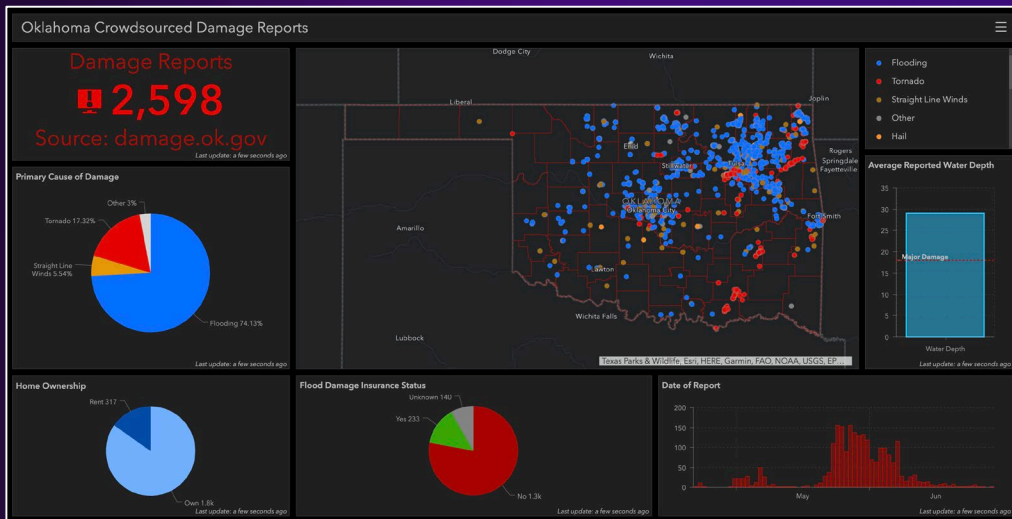
**Contact Information:**

Is the impacted location a Residence or Business?

Residence

Business

First Name



**Stillwater SEMA**  
@StwSema

Residents who experienced damage to their property or homes during the recent flooding can now fill out disaster assessments to @okem here [▶](#) [damage.ok.gov](http://damage.ok.gov)

Follow all our updates on severe weather & flooding here: [stillwater.org/news/view/id/2...](http://stillwater.org/news/view/id/2...) #StwOK #okwx

# Citizen Science

- Bears, otters, bees...
- A quick way for people to report wildlife sightings: Survey123 forms.



## Westport Police: Bear Sighting

### Department Press Release

There were multiple black bear sightings reported in Westport. The first was first reported to be in the area located off Woodside Lane. Later the MCA and in the early evening there was a sighting. The control believes that it was the same bear in a aggressive manner and seemed to be on the loose.

becoming increasingly common in Connecticut. Please take the precautions to prevent negative encounters with bears. To prevent luring them toward

### Otter Watch!

The purpose of this survey is to assist scientists in accumulating data about the behavior of river otters on Long Island.

**Date and time of your observation\***

6/1/2021 03:52 PM

**Observation location\***

### Turtle Reporting Form

**Observation type:\***

Live Turtle Road Crossing

**Observation date:\***

6/3/2021

**Species name:\***

Smooth Softshell

**Please select the county:\***

Adams County

**Please locate the observation:\***

### Report a Bear Sighting

Use this form to report sightings of bear in Connecticut.

Sighting reports are reviewed on a daily basis. The data that is collected is used for research purposes. If you have questions, contact the DEEP Wildlife Division at 860-424-3011. In the event of a wildlife-related emergency, contact DEEP EnCon dispatch at 860-424-3333.

**Date and time of sighting\***

5/31/2021 01:45 PM

**Town where bear was observed:\***

Andover

**Geolocation**

**Select the location on the map where you observed the bear(s)\***

The map will attempt to use your device's location to place the point. Please tap or click the map once to move the geopoint, and drag the map with a finger or mouse to change locations.



# A safer and speedier flu clinic

- Carlton County, Minnesota, uses Survey123 to streamline the drive-through clinic's administrative process



### Carlton County Flu Clinic

## 2020-21 Flu Vaccine Consent Form & Screening Questions

Carlton County Public Health & Human Services

Please note, \* indicates a required entry.

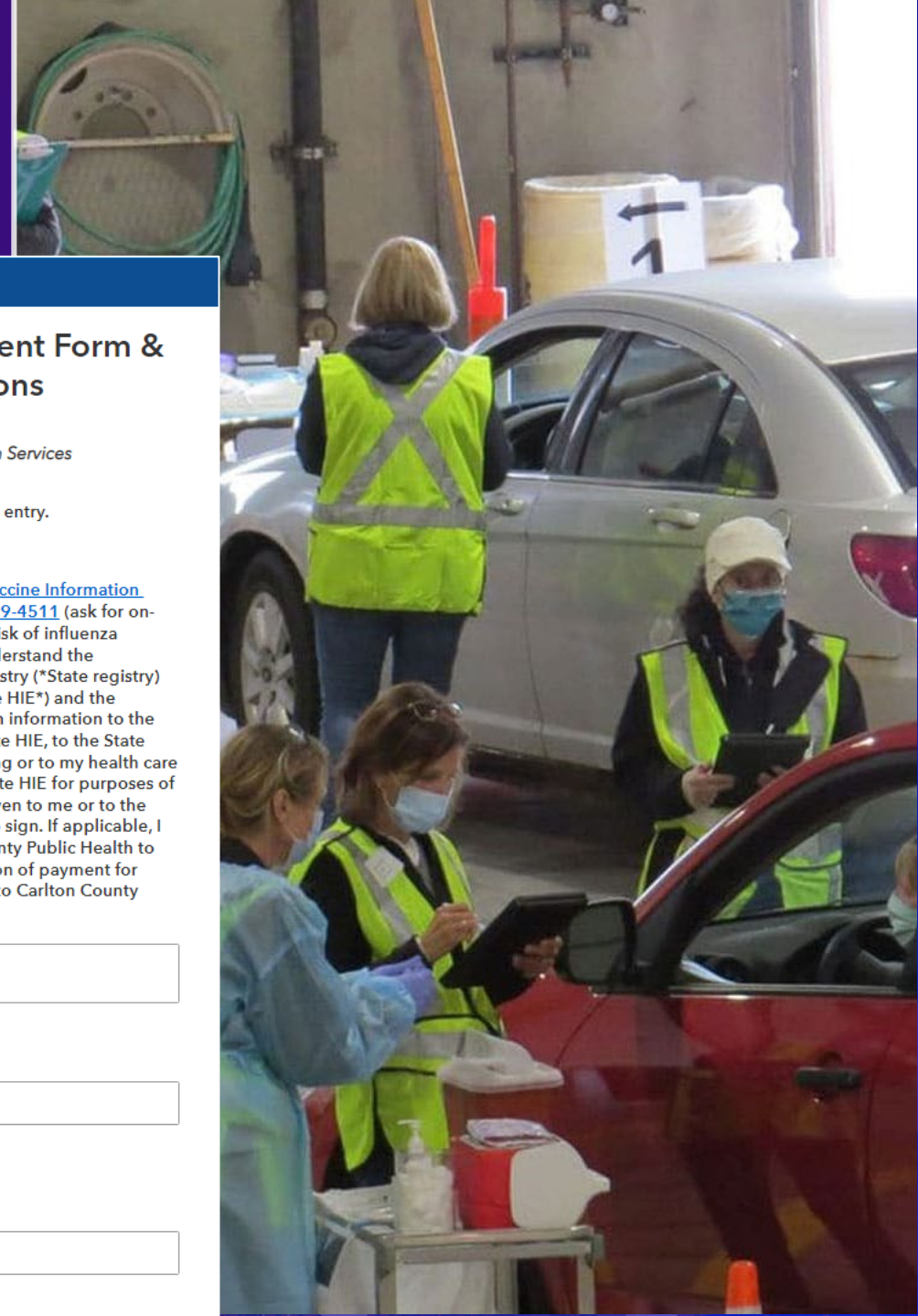
I have had an opportunity to read the [Influenza Vaccine Information Sheet](#) and have asked questions by calling [218-879-4511](tel:218-879-4511) (ask for on-call Public Health). I understand the benefits and risk of influenza vaccination as described. I acknowledge that I understand the purposes/benefits of my state's immunization registry (\*State registry) and my states health information exchange (\*State HIE\*) and the applicable Provider may disclose my immunization information to the State Registry, to the State HIE, or through the State HIE, to the State Registry, for the purposes of public health reporting or to my health care providers enrolled in the State Registry and/or State HIE for purposes of care coordination. I request that the vaccine be given to me or to the person named below for whom I am authorized to sign. If applicable, I authorize release of information from Carlton County Public Health to my health insurance company to facilitate collection of payment for services. I authorize payment to be made directly to Carlton County Public Health.\*

I agree\*

Last Name\*


First\*

Please enter your legal name





# Why online surveys?

- **Intuitive and effective way to collect information**
  - **They work in a web browser: phones, tablets, laptops...**
  - **Can be shared publicly or within your organization**
  - **Information available for visualization and analysis in ArcGIS**
  - **Easy to create, with the Survey123 web designer**
- 

The background is a vibrant, abstract composition. It features a gradient of colors from deep purple and blue on the left to bright pink and orange on the right. There are several overlapping, curved shapes and lines, including a prominent yellow arc on the right side. The overall aesthetic is modern and digital.

# Creating online surveys

with the Survey123 web designer



# Summary

- **Survey123 web designer lets you create online surveys right from your web browser**
- **Rich collection of question types and new ones added frequently**
  - Ranking
  - Address
  - File
  - Signature
  - ...
- **Calculations and hidden questions**
- **Custom branding**
- **And more...**



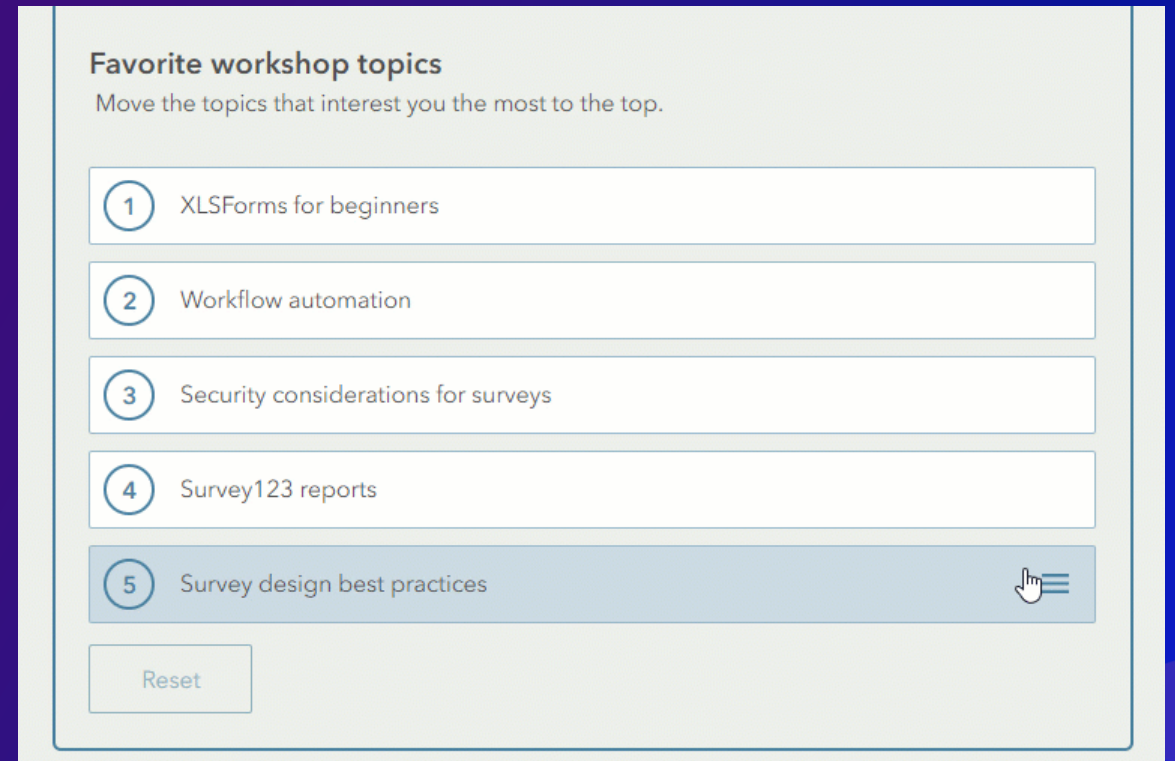
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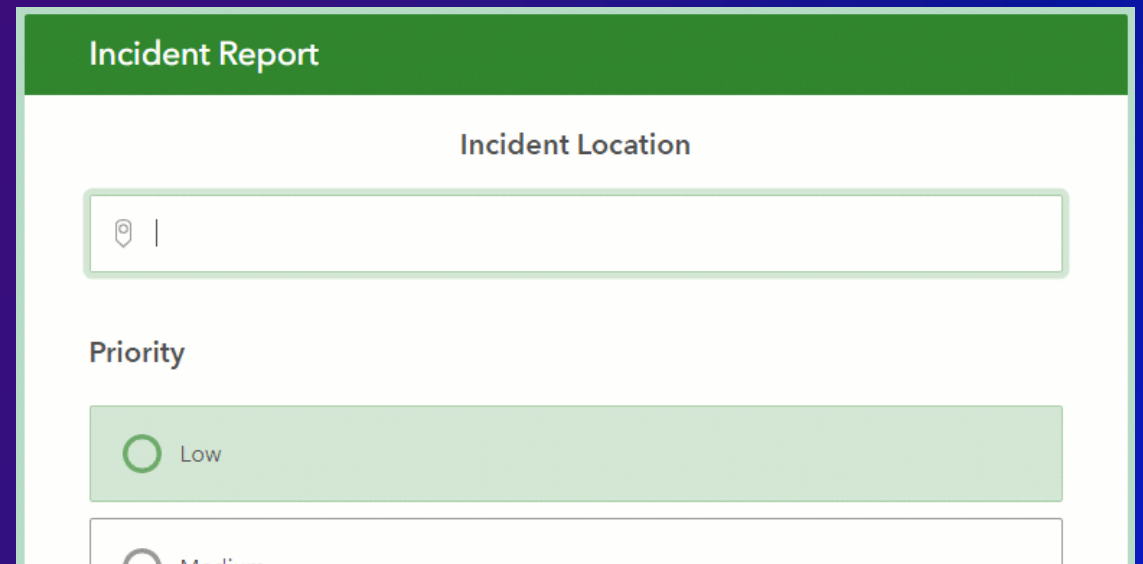
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The screenshot displays a web form titled "Incident Report" with a green header. Below the header, the form is divided into sections. The first section is labeled "Incident Location" and contains a text input field with a location pin icon on the left. The second section is labeled "Priority" and contains two radio button options: "Low" (which is selected) and "Medium".



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# Sharing your online surveys

... and your survey results and designs




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# Using URL parameters

for the Survey123 web app

# What are URL parameters used for?

- **Prepopulate questions**
  - **Hide survey elements and questions**
  - **Control the look & behavior of the survey**
  - **Encode contents of URL parameters**
  - **View, edit or copy existing records**
- 



# Syntax

Start of parameters

Separator

`https://survey123.arcgis.com/share/<id>?param=value&param=value&...`

Survey URL

Name-value pair

## Example:

`https://survey123.arcgis.com/share/<id>?autoRefresh=3`

In the thank you screen after submission, delay 3 seconds and refresh the survey automatically.

# Prepopulate questions

`https://<survey-URL>?field:<fieldname>=<value>`

- **Example**

- `https://<survey-URL>?field:source=email`

- **Where to find the field name?**

- Web designer -> Publish -> Modify schema -> Name

- Survey123 Connect -> survey sheet -> name

# Hide survey elements and questions

- **Hide survey elements**

`https://<survey-URL>?hide=navbar,header,description,footer,theme`

- **Hide questions, group, page, repeat**

`https://<survey-URL>?hide=field:<fieldname>`





## Encode contents of URL parameters

`https://<survey-URL>?field:source=email&encodeUrlParams=true`



`https://<survey-URL>?code=ZDpzdWJtaXR0ZWRCeXliZmllbGQ6c3VibWI0dGVkQnk...`

\* You can perform this operation in batch by using the [/encodeUrlParams API](#)

**Quick Tree Hazard Report**

Quickly report hazardous trees. Accurately map the location of the tree, and categorize and document the hazard with notes and photos.

**Source**

email

**Date of the report**

6/5/2021

**GPS tree location\***

Map showing street grid with a green location pin. Visible streets include Brookside Ave, Terracina Blvd, W Olive Ave, W Clark St, S Center St, Alvarado St, S San Mateo St, and Prospect P.

**Demo: Where does the respondent get the survey?**

## View, edit or copy existing records

- **View an existing record**

<https://<survey-URL>?mode=view&globalId=<globalID>>

- **Edit an existing record**

<https://<survey-URL>?mode=edit&globalId=<globalID>>

- **Prepopulate a survey using an existing record**

<https://<survey-URL>?mode=copy&globalId=<globalID>>



### Mosquito Spray Exclusion Request Management

Status: Approved  
Requested by: John Smith  
Reason: Medical (Retirement home)  
Review comments: Retirement home with medical facilities. Population at risk identified.

Status: Submitted  
Requested by: Anna Clever  
Reason: Apiary (Organic chicken farm)  
Review comments:

Status: Approved  
Requested by: Raphael Guzman  
Reason: Medical (Loma Linda Hospital)  
Review comments:

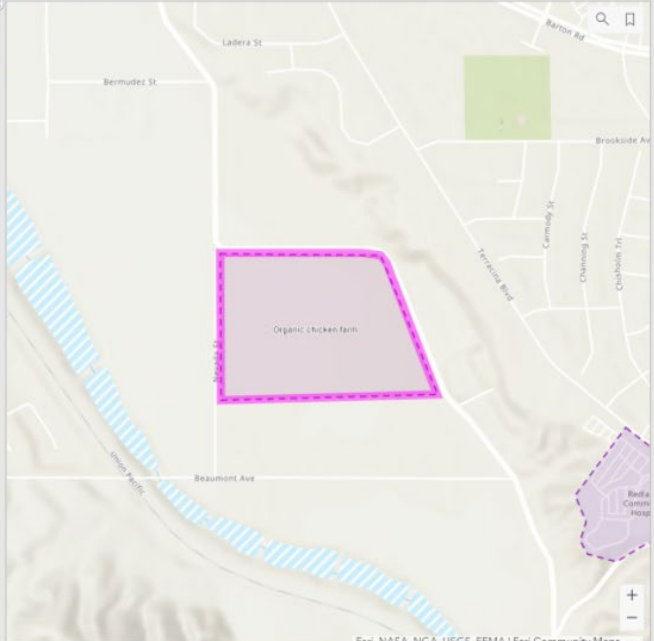
Status: Denied  
Requested by: Kathy Mueller  
Reason: (Cope School)  
Review comments: A school does not qualify as medical.

Status: Submitted  
Last update: a few seconds ago

This sample web app illustrates how a Survey123 web form can be embedded within a dashboard. After selecting an item from the list in the left, the survey panel on the right will display all attributes of the selected feature. The form has been designed to display some attributes in read-only mode, but the review section at the bottom will let you update the status of the request. After the form is submitted, the map and list will be updated accordingly.

This technique can be used to support 'review' workflows, where one survey is used to submit a request and a dashboard configured with another survey is used to look at and review the submitted request.

You can submit new requests through this form.



Esri, NASA, NGA, USGS, FEMA | Esri Community Maps ...

#### Mosquito Spray Exclusion (Review)

Request Date  
2020-04-26

Requestor Details

Name and last name  
John Smith

Email contact  
jsmith@acme.com

Exclusion Request Details

Reason  
Medical

Comments  
Retirement home

Last update: a few seconds ago

## Demo: Edit data in Dashboard

# Resources

- **Document**

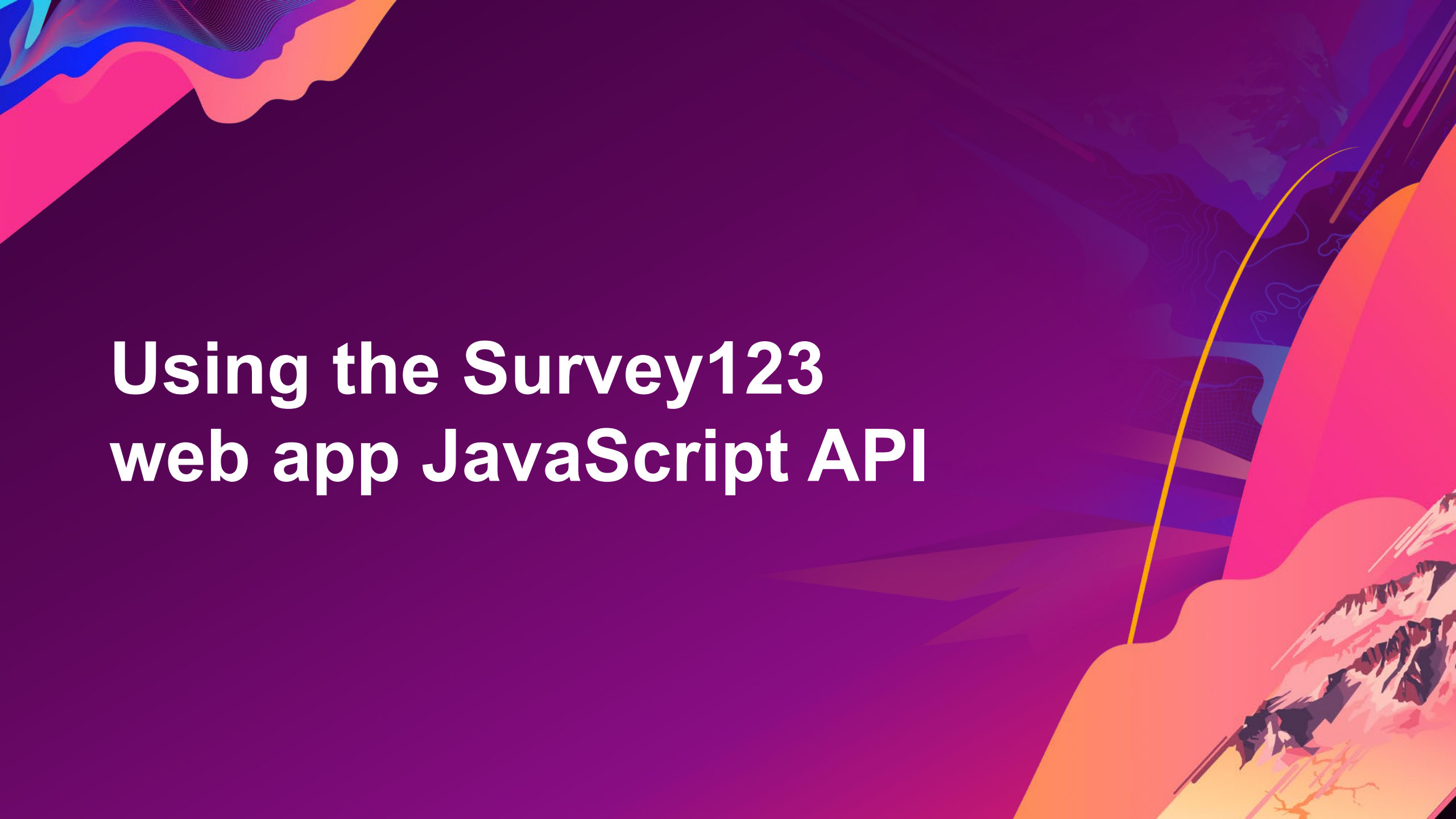
- [URL parameters for the web app](#)

- **Esri community blogs**

- [Survey123 Tricks of the Trade: Web form URL parameters](#)
- [Survey123 Tricks of the Trade: Encode URL parameters in the web app](#)
- [Survey123 Tricks of the Trade: Editing records in a web app](#)
- [Survey123 Tricks of the Trade: Embedding a survey in an ArcGIS](#)

[Dashboard](#)



The background features a vibrant, abstract design with a color palette of deep purple, magenta, and bright pink. On the right side, there are large, overlapping, rounded shapes in shades of orange and yellow. A thin, curved yellow line arches across the middle-right portion of the image. In the bottom right corner, there is a stylized, low-poly illustration of a mountain range with snow-capped peaks and a winding path or road. The overall aesthetic is modern and digital.

# Using the Survey123 web app JavaScript API



# What is the Survey123 web app JavaScript API?

- **An API for JavaScript developers to control the Survey123 web app programmatically**
- **Use cases**
  - **Embed a survey into a web page by code**
  - **Apply a custom CSS style to the embedded survey**
  - **Dynamically change answers to questions in a survey**
  - **Subscribe to survey events, such as `onFormLoaded`, `onFormSubmitted`, `onQuestionValueChanged`**



 SPEEDTEST



Finding Optimal Server...



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## Demo: Connection speed test

# Resources

- **Developer doc**
  - [Web app API Reference](#)
- **Esri community blog**
  - [Introducing the Survey123 Web App JavaScript API](#)
- **Others**
  - [Speed test source code by John Grayson](#)
  - [Survey widget in Experience Builder](#)
    - [Using Experience Builder and Survey123 to pass attributes and geometry from one layer to another](#)

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**Where to learn more**

**Live Q&A: Starts in a minute!**

## **Other Survey123 sessions at the Esri UC 2021**

- **12883 – ArcGIS Survey123: Introduction and what's new**
- **12884 – ArcGIS Survey123: Advanced Smart Form Design**
- **12885 – ArcGIS Survey123: An Introduction to Reports**
- **13238 – ArcGIS Survey123: Field Data Collection with Smart Forms**

**Contact Survey123 Experts during the conference**





The background features a vibrant, abstract design. On the left, there are layered, wavy shapes in shades of blue, purple, and pink. On the right, a stylized mountain range is depicted in warm tones of orange, red, and yellow, with a thin yellow arc curving over it. The overall color palette is rich and modern.

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