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# What's New in ArcGIS Survey123 Webinar June 28, 2022

Presenters: Ismael Chivite, Zach Sutherby

Host: Jacqui Newell

# What's new in Survey123 (June 2022)



## Host

Jacqui Newell  
Product Marketing Manager



## Presenter

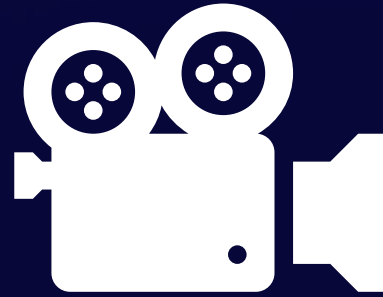
Ismael Chivite  
Senior Product Manager



## Presenter

Zachary Sutherby  
Product Engineer

**Please be advised:**



**Recording in Progress**

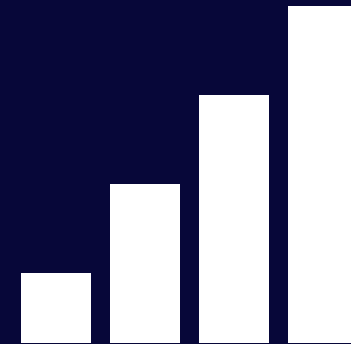
**Get engaged!**



**Chat**

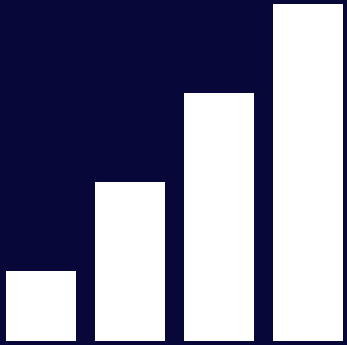


**Questions**



**Live Polls**

## How familiar are you with Survey123?



**Live Poll**

- I am new to it
- I make web designer surveys
- I've tried Connect, but I mostly use web designer
- I am familiar with Survey123 Connect

# Agenda

60 minutes. A mix of slides, demos and live Q&A

- **What's new:**
  - Web surveys
  - Surveys for field data collection
  - XLSForm & Connect
- **What's coming next**
- **To learn more**
- **Q&A**

# Web surveys

What's new June 2022



A photograph of two corncrakes in a lush green field. The bird on the left is standing and facing right, showing its brown and white speckled plumage and a reddish-brown beak. The bird on the right is sitting or crouching, also facing right, with similar plumage. The text 'Seen or heard a corncrake?' is overlaid in white on the image.

## Seen or heard a corncrake?

### Before you report a corncrake...

Please note, corncrake have legal protection under UK law. This means that the birds, their nests and eggs are protected. Please avoid disturbing Corncrake in the process of helping this project. You can find out more about the legislation that protects the species [here](#). The location data you submit to RSPB Scotland will only be published for areas where corncrakes are widely known to breed regularly. Please DON'T share the location of corncrakes you have seen/heard in unusual locations on social media – if in doubt, contact the relevant county bird recorder (list [here](#)) to share the record in



[Join Us](#)

# PROTECT PLUMAS Leave it Wild!

Only 7% of the Feather River Watershed is protected. We aim to protect more.

[Our Vision](#)



## Individual State of Texas Assessment Tool (iSTAT)

The objective of this survey is to help state and local emergency management officials across Texas identify and gain an understanding of damages that have occurred during recent natural disaster activity.

Please submit one survey per impacted address.

Reporting damages 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 [Clique Aquí](#)

### Contact Information: ▼

Is the impacted location a Residence or Business?\*

☒ Residence

☐ Business

First Name

# Web surveys. What's new (June 2022)

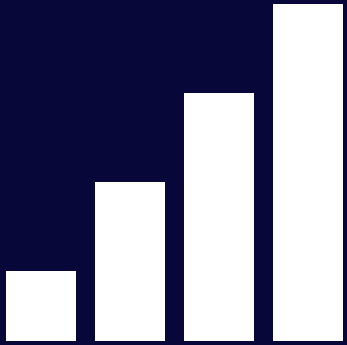
- **Map enhancements**
  - Set your own web maps
  - Default location options
  - Minimum map scale for drawing tolos
- **Calculations and hidden questions**
- **Dynamic text**
- **Social media cards**

# Live Demo

Followed by a poll...



# What's your favorite feature so far?



**Live Poll**

- Map question type enhancements
- Calculations and hidden questions
- Social media sharing
- Dynamic labels
- Other (add to chat)

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# Surveys for field data collection. What's new (June 2022)

- **Markup tools**
- **Streaming tools**
- **Set the file name of images**

# Image Markup tools (Draw and annotate palettes)

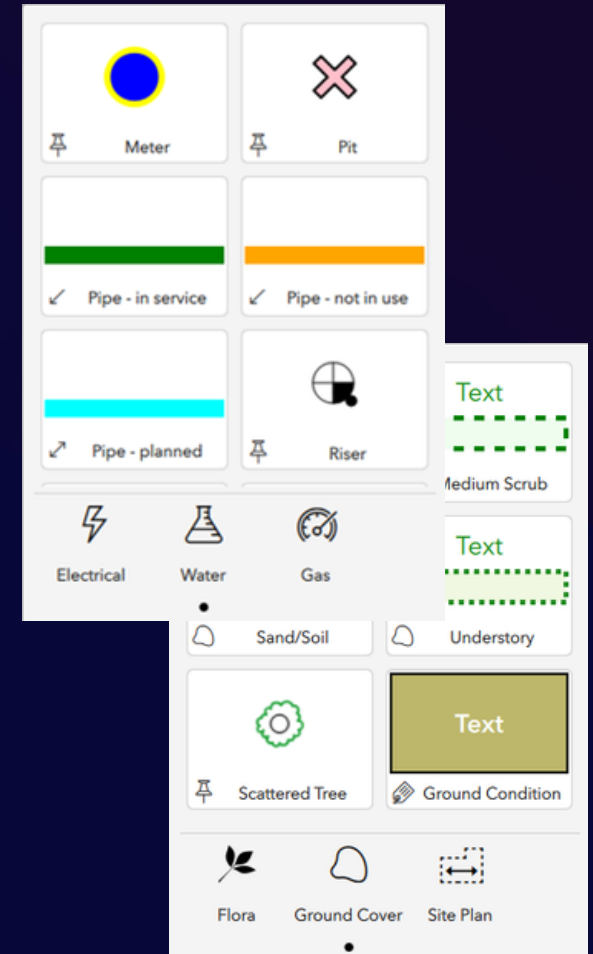
- Photos are an important aspect of many field data collection workflows
- Survey123 includes ready-to-use markup tools
- Raise the value of your photos by highlighting in them what is important



# Custom Markup tools (Draw and annotate palettes)

- Give your markup tools a meaning
- Tailor the markup experience to the workflow at hand
- Get more consistent markups
- Streamline the user experience
- Create your own palettes in Survey123 Connect and reuse them across multiple surveys

[Learn how to configure markup tools in Survey123](#)

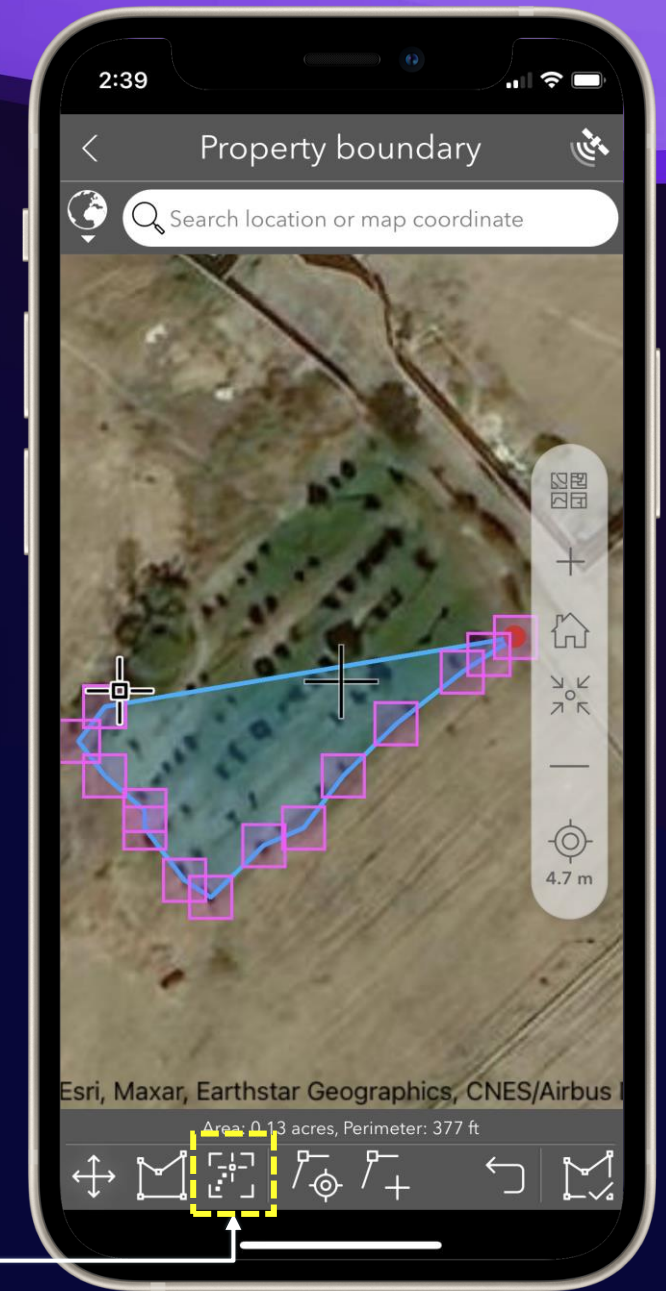


**Live Demo**



# Streaming tools

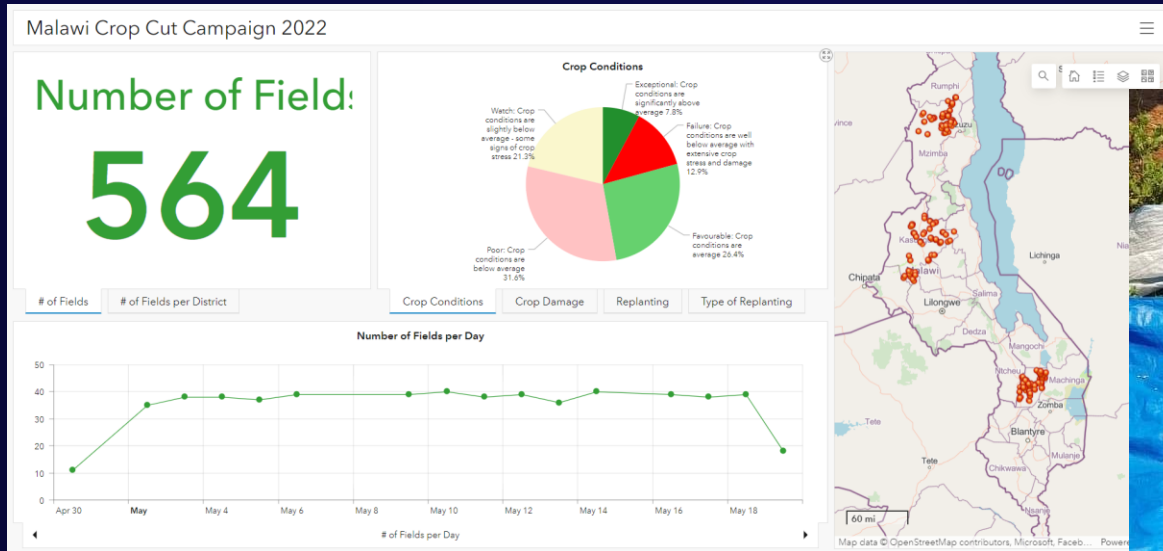
- **Digitize a polyline or polygon as you walk or drive**
  - Uses location from your mobile device or,
  - External high accuracy GNSS receiver
- **Common use cases:**
  - Asset inspections and inventories: Road, pipe or other linear assets
  - Digitize the boundary of a property, crop or other area of interest



New streaming tool

# Field boundary delineation

Field data collection by NASA Harvest & FAO in Malawi (May 2022)



NASA Harvest early warning co-lead, Christina Justice, leads a joint field data collection campaign with FAO in Malawi. She is using ESRI's Survey123 mobile application to record crop statistics. Survey123 serves as the workhorse for data collected on crop conditions and field boundaries, both critical metrics for agricultural applications.

Data collected during this campaign is particularly useful for training Earth observation-based machine learning algorithms to recognize complicated field boundaries, differentiate crop types, and classify crop conditions. Ground data is critical for training these models so that agricultural estimates can be made in areas where ground data is not available or cannot be accessed



12:22

Malawi\_FAO\_CropCut\_2022

Current Season Crop

Apart from Maize are there other crops in the field? \*

☐ Yes ☒ No

What was the estimated start date of planting for maize? \*

Monday, December 6, 2021

Did maize planting take place early, on time, or late compared to a normal year? \*

☐ Early ☐ On Time ☒ Late

By how many weeks was planting early or late?

1 4 15

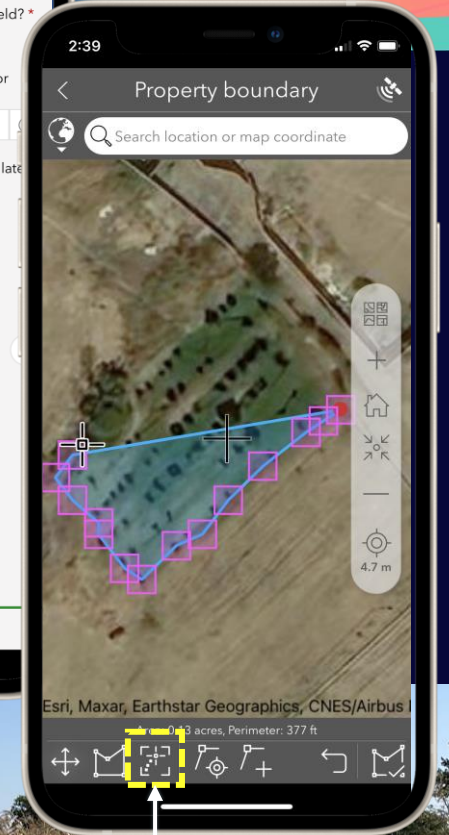
Did replanting take place during the season? \*

☒ Yes ☐ No

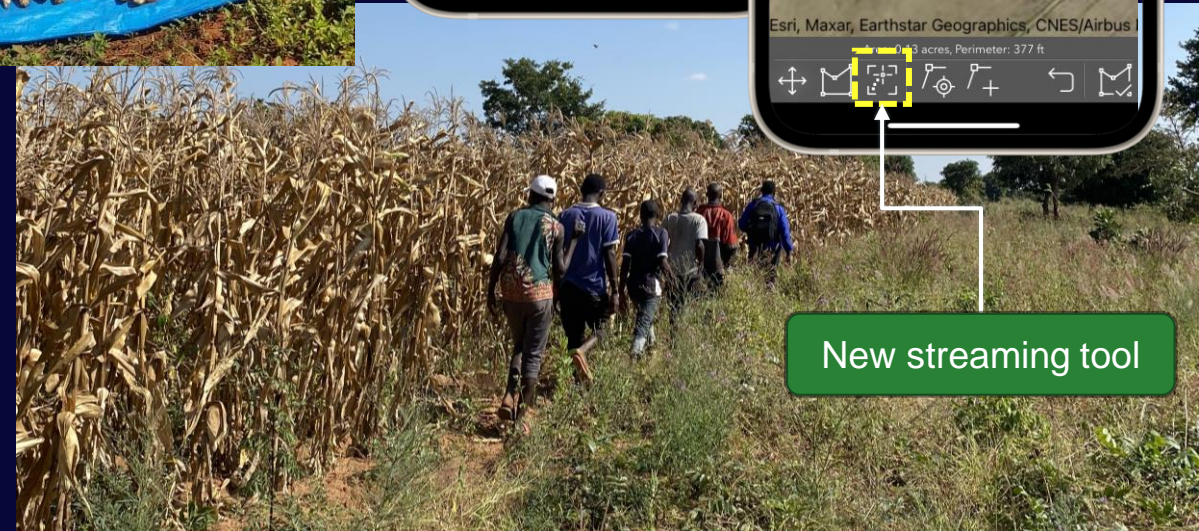
What kind of replanting took place?

☐ Gap filling ☒ Partial field replanting ☐ Whole field replanting

5 of 8

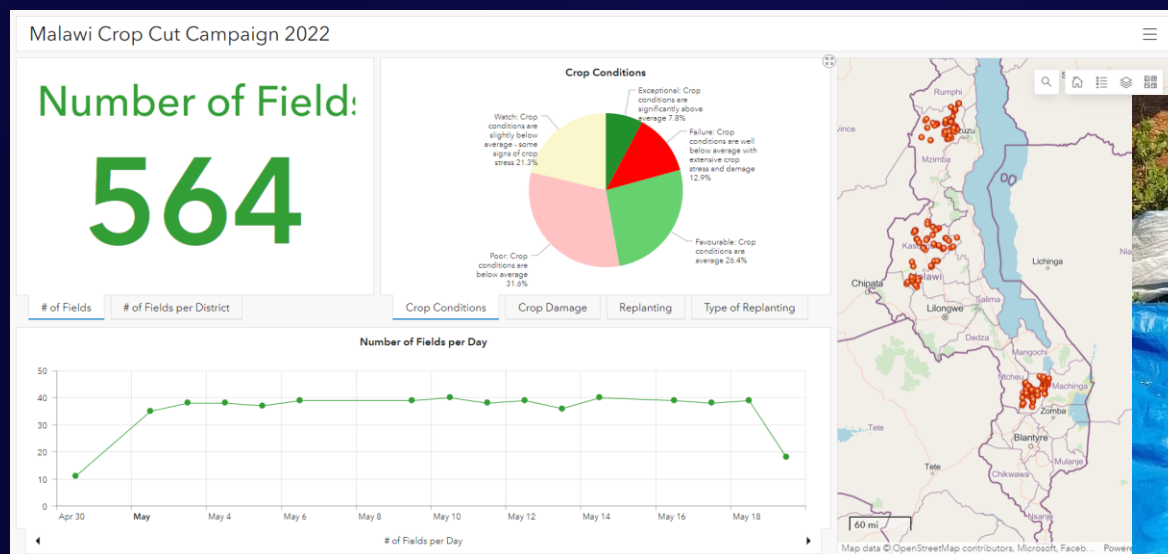


New streaming tool



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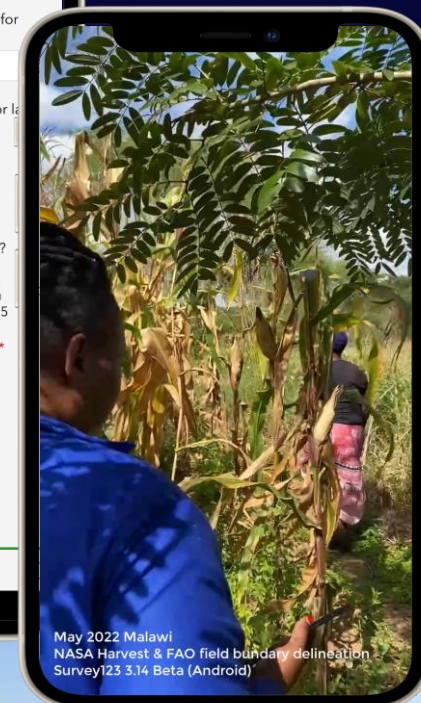
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5 of 8



May 2022 Malawi  
NASA Harvest & FAO field boundary delineation  
Survey123 3.14 Beta (Android)



**Live Demo**



# Set the file name of images

- **Set the file name of images using an XLSForm expression**
  - Using form data previously entered
  - Using the current time and location
- **Applies to images:**
  - Photos
  - Signatures
- **Supported in the mobile and desktop apps**

2:24

Street Service Report

Service type:

Sidewalk

Service Location:

34°4'N 117°11'W

Service closest address:

903 Calhoun St, Redlands, California, 92374

Photo (Job ID: 55600)

1 of 1

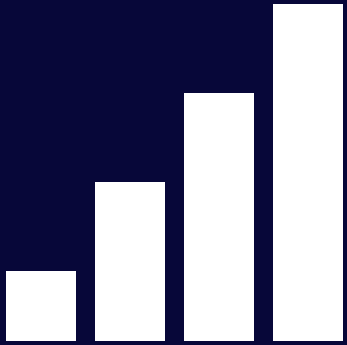
Job ID 55600 Jan 22 2022 14:23

Job\_55600\_Sidewalk\_220627142307.jpg

**Live Demo**



# What's your favorite mobile app feature?



**Live Poll**

- Markup tools
- Streaming tools
- Set file name of photos
- Sorry, nothing caught my attention this time

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60 minutes. A mix of slides, demos and live Q&A

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# XLSForm and Connect. What's new (June 2022)

- Streaming tools (Field app only)
- Set file name of images
- User and device properties: pulldata("@property")

# Streaming tools

- Streaming tools are hidden by default
- Add 'streaming' to the method parameter to enable them
- Compatible with geoshape (polygon) and geotrace (polyline)

type	name	label	body::esri:style
date	surveydate	Survey Date	
geoshape	propertyboundary	Property boundary	method=vertex,streaming,beep distanceThreshold=1
decimal	propertyarea	Area (in acres)	

▶

survey

choices

settings

Version

Question types

Appearances

Field types

Reference

Reserved

+

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- Optionally, add 'beep' for audible feedback and 'distanceThreshold'

# Set file name of images

- Use the fileName parameter in bind::esri:parameters

type	name	label	bind::esri:parameters
text	job_id	Job_ID	
image	photo	Photo	fileName=concat("Job_",\${job_id},"_",\${job_type},"_",format-date(now(),"%Y%m%d%H%M%S"))

▶

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Reserved

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- Supported in the mobile and desktop apps, but not in the web app
- Not applicable to audio question type yet
- Warning: Make sure the file name is unique! Otherwise, Survey123 will default to an automatically generated file name

[Learn more: Media questions](#)

# Get user & device info with pulldata("@property")

- Retrieve information about the user, device and Survey123 app used to submit data

Logged-in user info
<code>pulldata('@property','username')</code>
<code>pulldata('@property','userFullName')</code>
<code>pulldata('@property','userFirstName')</code>
<code>pulldata('@property','userLastName')</code>
<code>pulldata('@property','email')</code>

Device info
<code>pulldata("@property", 'deviceModel')</code>
<code>pulldata('@property', 'OS')</code>
<code>pulldata('@property', ' appVersion')</code>
<code>pulldata("@property", 'surveyName')</code>
<code>pulldata("@property", 'userAgent')</code>

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# What's coming next

- **Spatial calculations**
  - An alternative to custom JS functions
  - In the web designer
  - With pulldata("@layer")
- **Support for indoors**
- **Location sharing**
- **Laser rangefinders**
- **Reports with Microsoft Power Automate**
- **Smart Camera advancements**

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# To learn more

- [What's new announcement](#) (includes links to relevant help topics)
- Markup tools
  - [Blog post with the basics](#)
  - [Blog post describing custom tools](#)
- [Streaming tools help topic](#)
- [Image file names help topic](#)
- [Device and user properties help topic](#)
- [Calculation modes help topic](#)

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# Live Q&A



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## Keep in touch

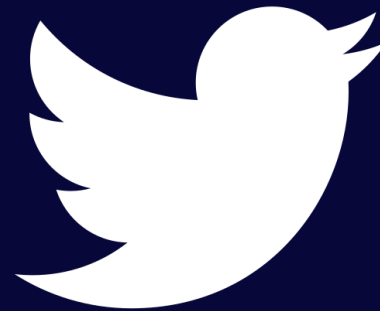


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