

Collector for ArcGIS

An Introduction



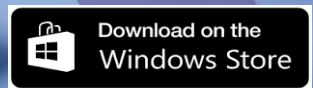
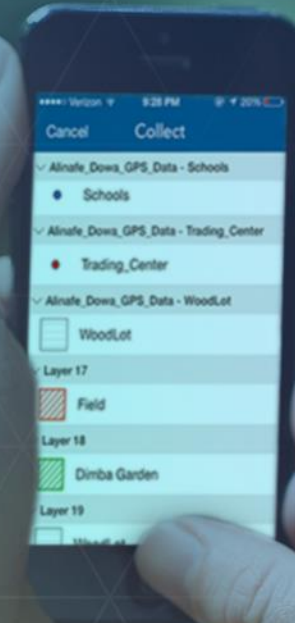


Collector for ArcGIS

Web Maps

Work Offline

High Accuracy GPS



Collector for ArcGIS | How is it being used?



Collect and Maintain Data



Capture Observations



Perform Rapid Assessments

Collector for ArcGIS| Asset Inventory

- Improve accuracy and currency of data
- Modernize field workflows



Sign Inventory



UAV Flight Control



Hydrant Collections

Collector for ArcGIS| Asset Maintenance

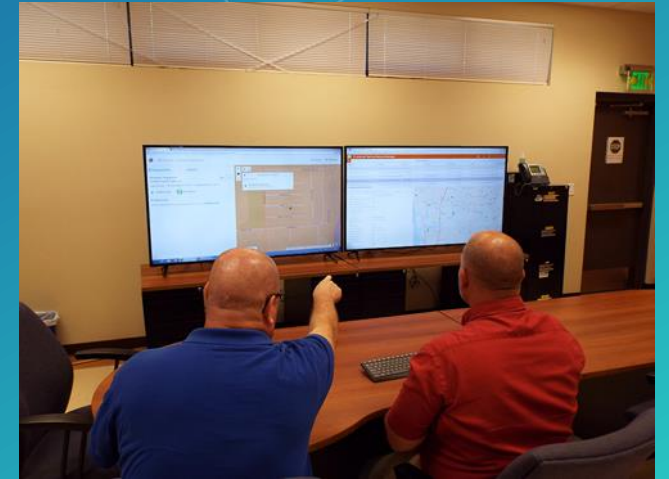
- Replace redundant, inefficient field processes
- Improve operational efficiency



Aquatic Surveys



Pipeline Operations



Mosquito Control

Collector for ArcGIS| Le-Ax Water District



Travis Anderson
Civil Engineer

Deploying Mobile Solutions| Collector uses Web Maps

- **Collector uses maps that include:**
 - Layers from 1+ feature services (editable)
 - Location Tracking layer (optional)
 - Basemap
 - Application settings
 - Offline Mode advanced settings
- **Share Maps to field workers using Groups:**
 - Create Named Users for each field worker
 - Invite field workers to groups
 - Share maps into groups

The image shows two overlapping dialog boxes from the ArcGIS Collector application. The background dialog is 'Web Map Settings', which has sections for 'Save As' (with 'Allow others to save a copy of this item.' checked), 'Offline Mode' (with 'Enable offline mode.' checked), and 'Application Settings' (with 'Routing', 'Measure Tool', 'Basemap Selector', and 'Find Locations [-]' all checked). It also has a 'Hint text' field with 'Place or Address' and radio buttons for 'By Layer' and 'By Address' (the latter is selected). The foreground dialog is 'Share', titled 'Share the item(s) with:'. It has three main options: 'Everyone (public)' (unchecked), 'Esri apps' (checked), and 'These groups:' (checked). Under 'These groups:', there is a list with 'Custom Basemaps' (unchecked), 'Drought Monitoring' (checked), 'edgerelease test' (unchecked), 'EkoHome' (unchecked), and 'Fire Hydrant Inspections' (unchecked). At the bottom of the 'Share' dialog, it says 'These settings will replace the current settings.' and has 'OK' and 'Cancel' buttons.

Web Map Settings

Save As

☒ Allow others to save a copy of this item.

Offline Mode

☒ Enable offline mode.

Application Settings

Select the tools and capabilities to enable in applications that access this web map

☒ Routing

☒ Measure Tool

☒ Basemap Selector

☒ Find Locations [-]

Hint text

Place or Address

☐ By Layer

☒ By Address

Share

Share the item(s) with:

☐ Everyone (public)

☒ Esri apps

☒ These groups:

☐ Custom Basemaps

☒ Drought Monitoring

☐ edgerelease test

☐ EkoHome

☐ Fire Hydrant Inspections

These settings will replace the current settings.

OK Cancel

Collector for ArcGIS| Edit Using Feature Layers

- **Supported Types:**

- ArcGIS Online (Hosted)
- ArcGIS Server (On Premise)

- **Supported Operations:**

- Editing options
- Sync capabilities

- **Popups and fields:**

- Define the form experience in Collector
- Take advantage of Geodatabase capabilities
 - Domains and Subtypes
 - Related Tables
 - Feature Templates
 - Field validation
 - Editor tracking

The image displays four screenshots from the ArcGIS Collector application interface, illustrating the configuration process for editing feature layers.

Feature Layer (Hosted) Settings: This screen allows users to configure editing options for a hosted feature layer. Key settings include:

- Editing:** ☒ Enable editing, ☐ Keep track of who created and last updated features.
- Who can edit features?** Share the layer to specific groups of people, the organization or publicly via the Share button on the Overview tab.
- What kind of editing is allowed?** ☒ Add, update, and delete features; ☐ Only update feature attributes; ☐ Only add new features.
- What features can editors see?** ☒ Editors can see all features; ☐ Editors can only see their own features (requires tracking).
- What features can editors edit?** ☒ Editors can edit all features; ☐ Editors can only edit their own features (requires tracking).
- What access do anonymous editors (not signed in) have?** ☒ The same as signed in editors; ☐ Only add new features, if allowed above (requires tracking).
- Who can manage edits to this layer besides you and an administrator?** Share the layer to groups that allow all members to update group content. These groups are created by administrators. [More info.](#)

Configure Attributes: This screen allows users to select the fields they want to display in the Collector form. The table below shows the available fields:

Display	Field Name	Field Alias
<input type="checkbox"/>	{OBJECTID}	OBJECTID
<input checked="" type="checkbox"/>	{REPRESENT}	Owner / ...
<input checked="" type="checkbox"/>	{PRIMRES}	Primary R...
<input checked="" type="checkbox"/>	{HABITABLE}	Habitable
<input checked="" type="checkbox"/>	{NUMOCCUP}	Number of Occupants
<input checked="" type="checkbox"/>	{STRINSUR}	Structure Insured
<input checked="" type="checkbox"/>	{EARINSUR}	Earthquake Coverage
<input checked="" type="checkbox"/>	{FLOODINSUR}	Flood Coverage

Create Features: This screen shows the form for creating new features. The form is titled "Damage to Residential Buildings" and includes a search bar and a list of feature types: Affected, Destroyed, Inaccessible, Major, and Minor.

Field Properties: This screen allows users to configure the properties of a specific field. The table below shows the field properties for the "TYPDAMAGE" field:

Field Properties	Extent of Damage
Alias	
Allow NULL values	Yes
Default Value	
Domain	daDegreeDamage
Length	20

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

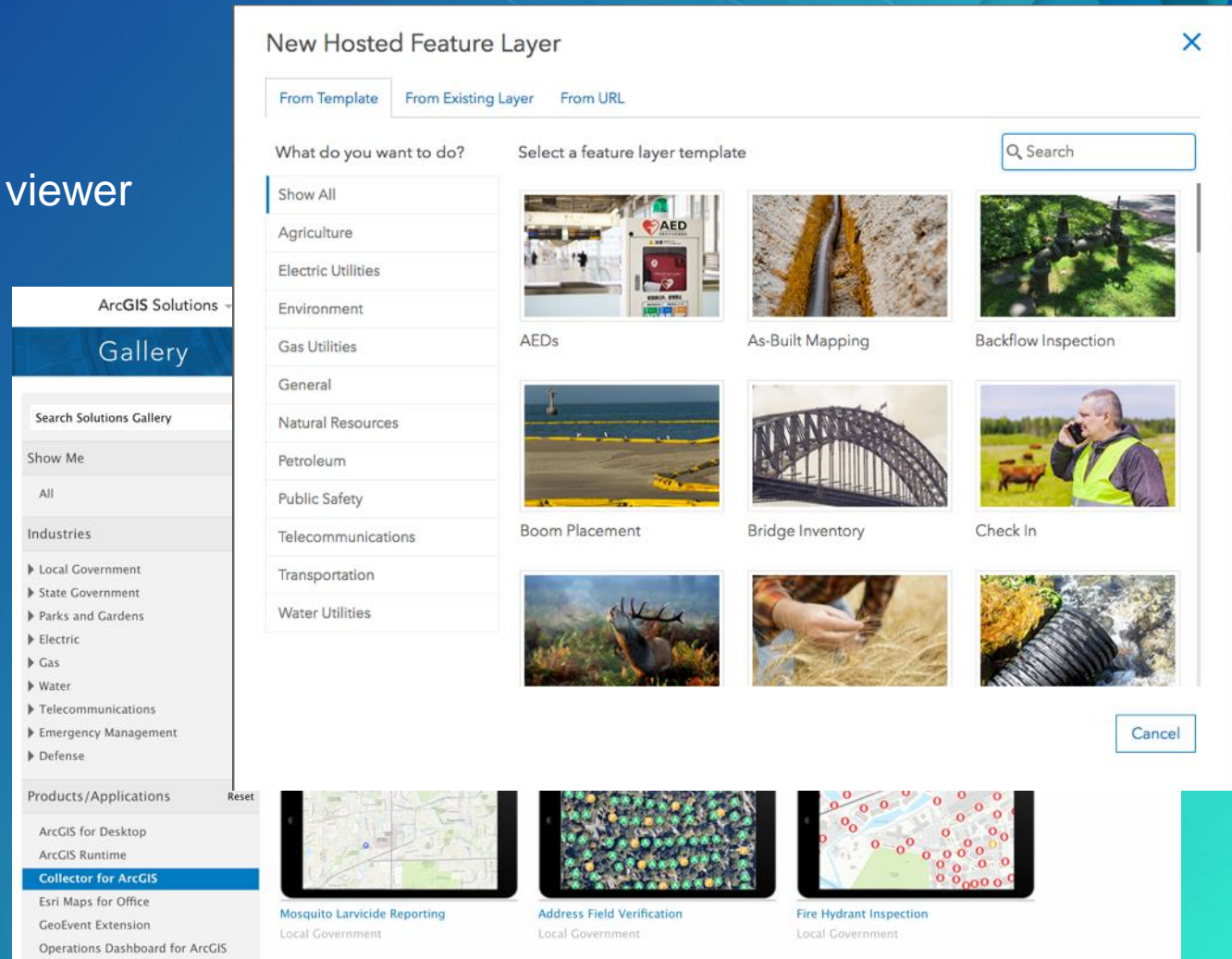
Collector for ArcGIS| Jump Start With Templates

- Templates for creating new feature layers
- Use directly or fine tune them with the map viewer

- Examples:

- AEDs Inventory
- Boom Placement
- Bridge, guardrail inventory
- Water quality assessment
- Environmental Impact
- Ground Control Points

- Over 60 Collector-based Solution Templates!



Demo

Collector | New Feature Highlights

High Accuracy Data Collection

- Set a location provider
- Define a location profile
- Attach accuracy information to your data
- Receive alerts and notifications
- GPS averaging

Additional Enhancements

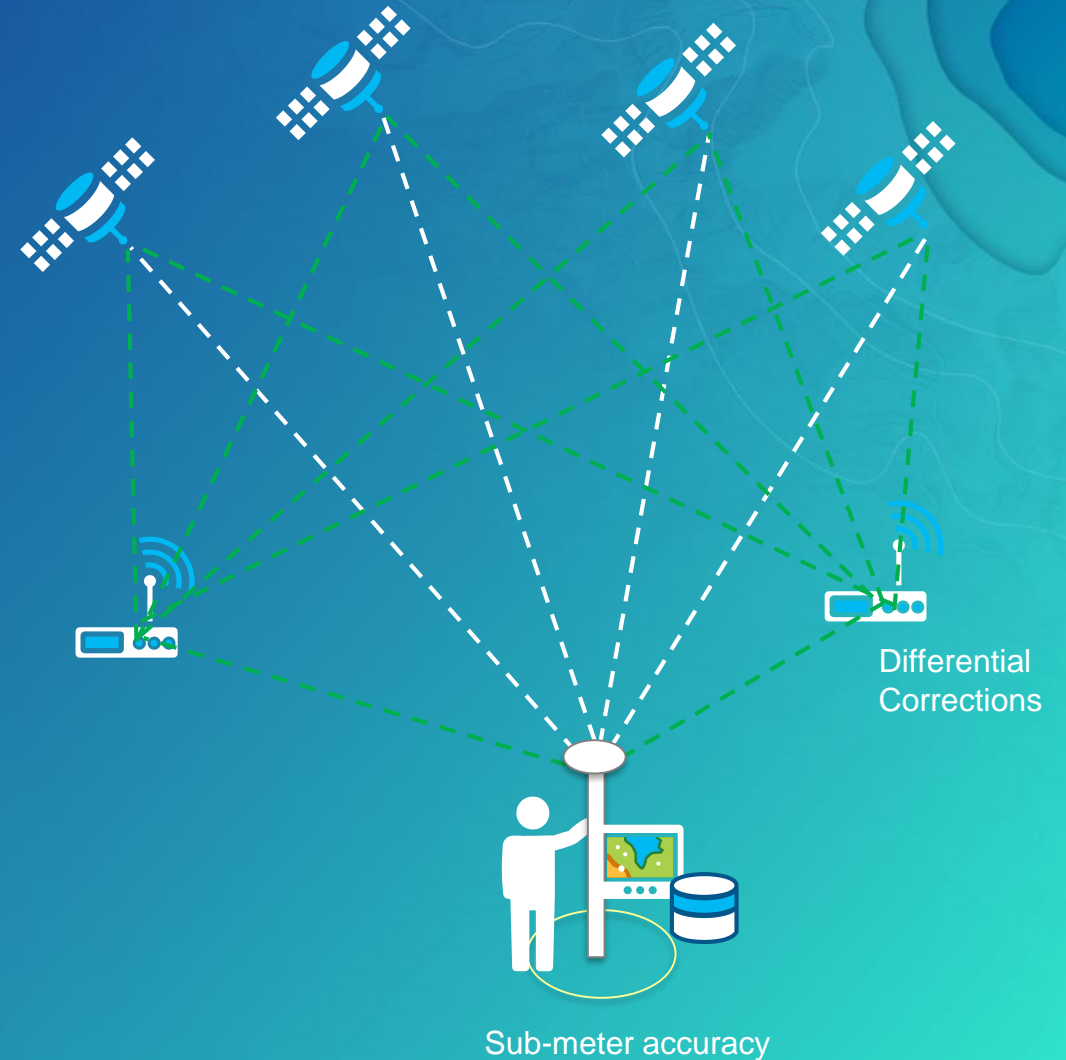
- SD card support for basemaps (Android)
- Renaming media

App Integration

- Workforce, Navigator

[Collector HA Python Scripts](#)

[Collector URL Scheme](#)



Demo

Collector What's Coming This Year

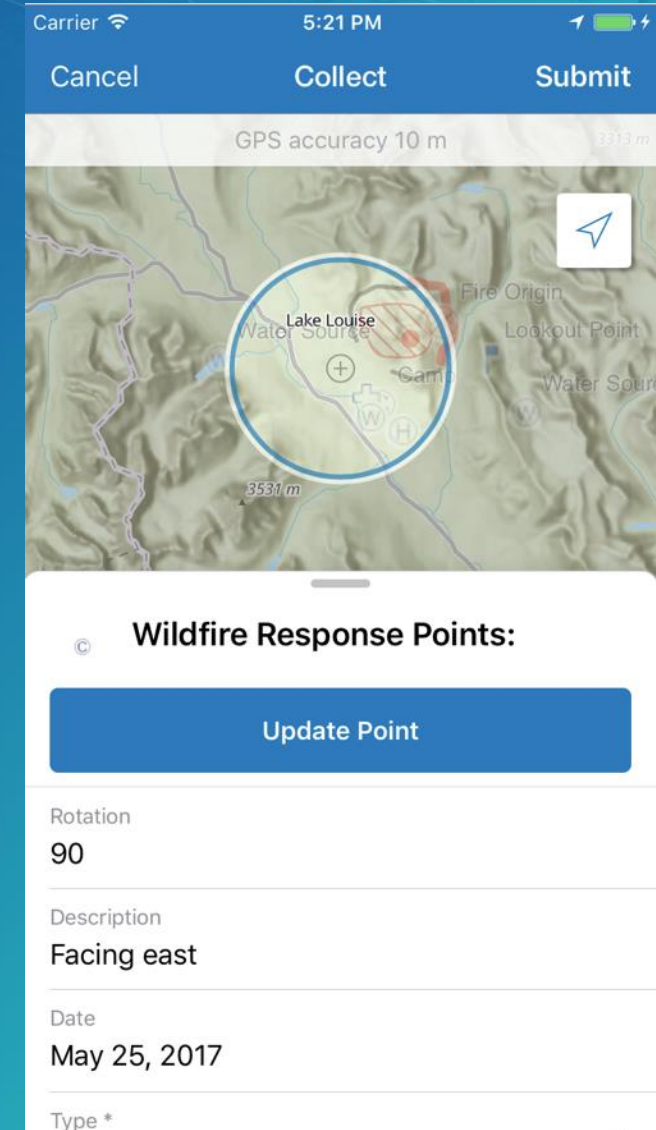
Early Q3

- **Trimble Catalyst (Android)**
- 95% confidence interval
- Coordinate unit display



Collector – The Big New Thing

- Better maps
 - Labels, Advanced symbology
 - Vector basemaps
- High Accuracy
 - Support Z values
- New user experience
 - Collect experience
 - Map/Form experience
- Offline
 - Pre-planned workflows
- Smarter forms
 - More input types (Barcodes, QR codes)
 - Arcade expressions
 - Grouping, conditional visibility*
- Simpler deployments
 - Pre-configured settings
 - Restrictions



The screenshot displays the ArcGIS Collector mobile application interface. At the top, the status bar shows 'Carrier', signal strength, '5:21 PM', and battery level. Below this is a blue header with 'Cancel', 'Collect', and 'Submit' buttons. A white bar indicates 'GPS accuracy 10 m' and '3313 m'. The main map area shows a topographic map of Lake Louise with a blue circle highlighting a specific location. Below the map, a white form titled 'Wildfire Response Points:' contains a blue 'Update Point' button. The form also includes fields for 'Rotation' (90), 'Description' (Facing east), 'Date' (May 25, 2017), and 'Type *'.

Carrier 5:21 PM

Cancel Collect Submit

GPS accuracy 10 m 3313 m

Lake Louise

Water Source

Fire Origin

Lookout Point

Water Source

3531 m

Wildfire Response Points:

Update Point

Rotation
90

Description
Facing east

Date
May 25, 2017

Type *

Demo

Collector Timeline

Beta 1 – Early Q3

- Collect Workflow

Beta 3 – Early Q4

- Related Tables
- Pre-planned Offline

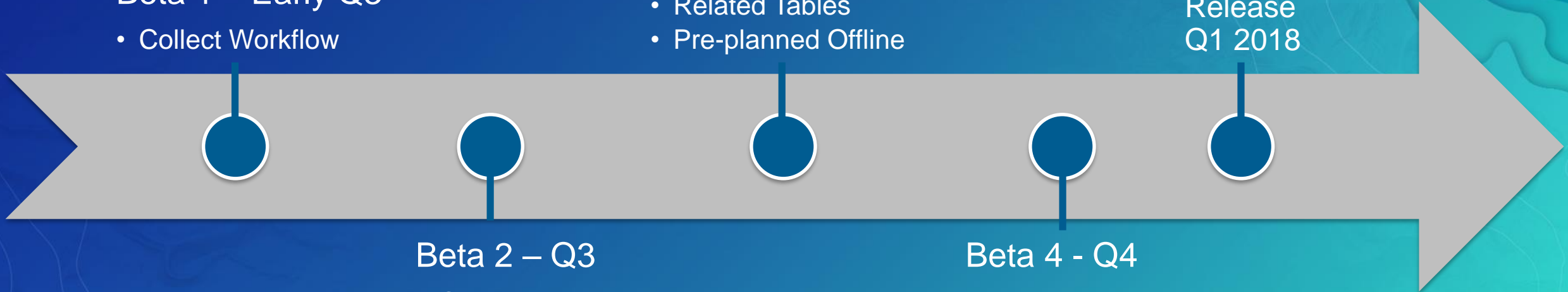
Release
Q1 2018

Beta 2 – Q3

- Offline Workflow

Beta 4 - Q4

- High accuracy

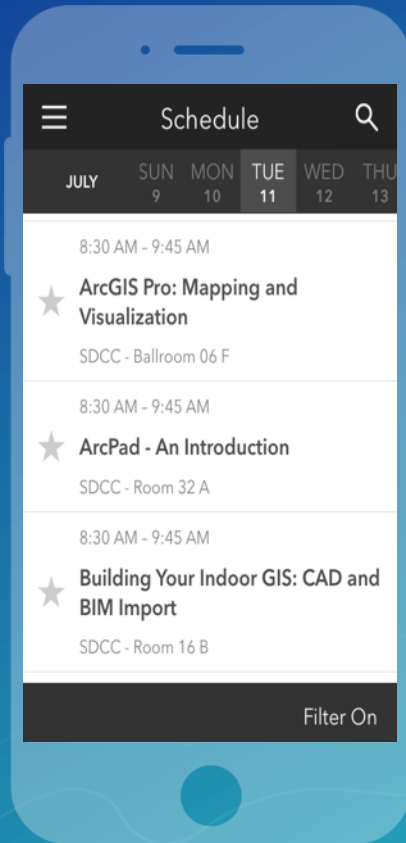


Please Take Our Survey on the Esri Events App!

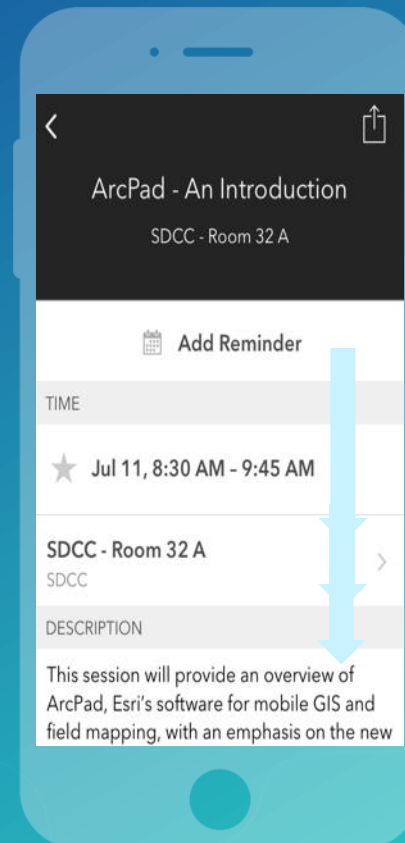
Download the Esri Events app and find your event



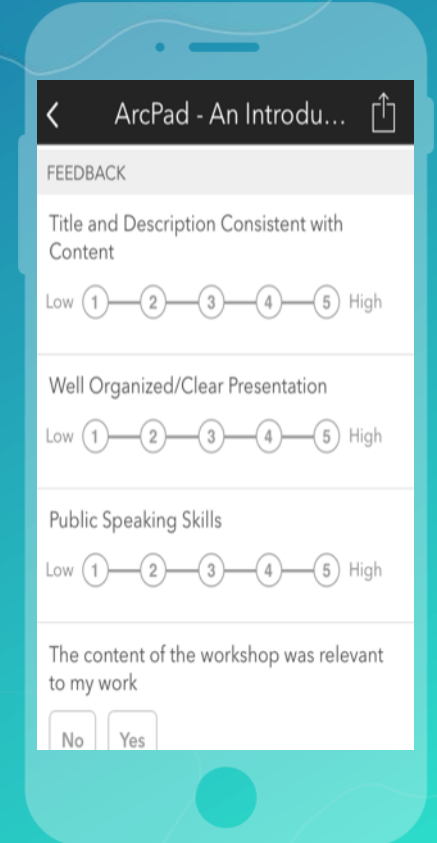
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"





esri

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