

# Introducing ArcGIS Field Maps

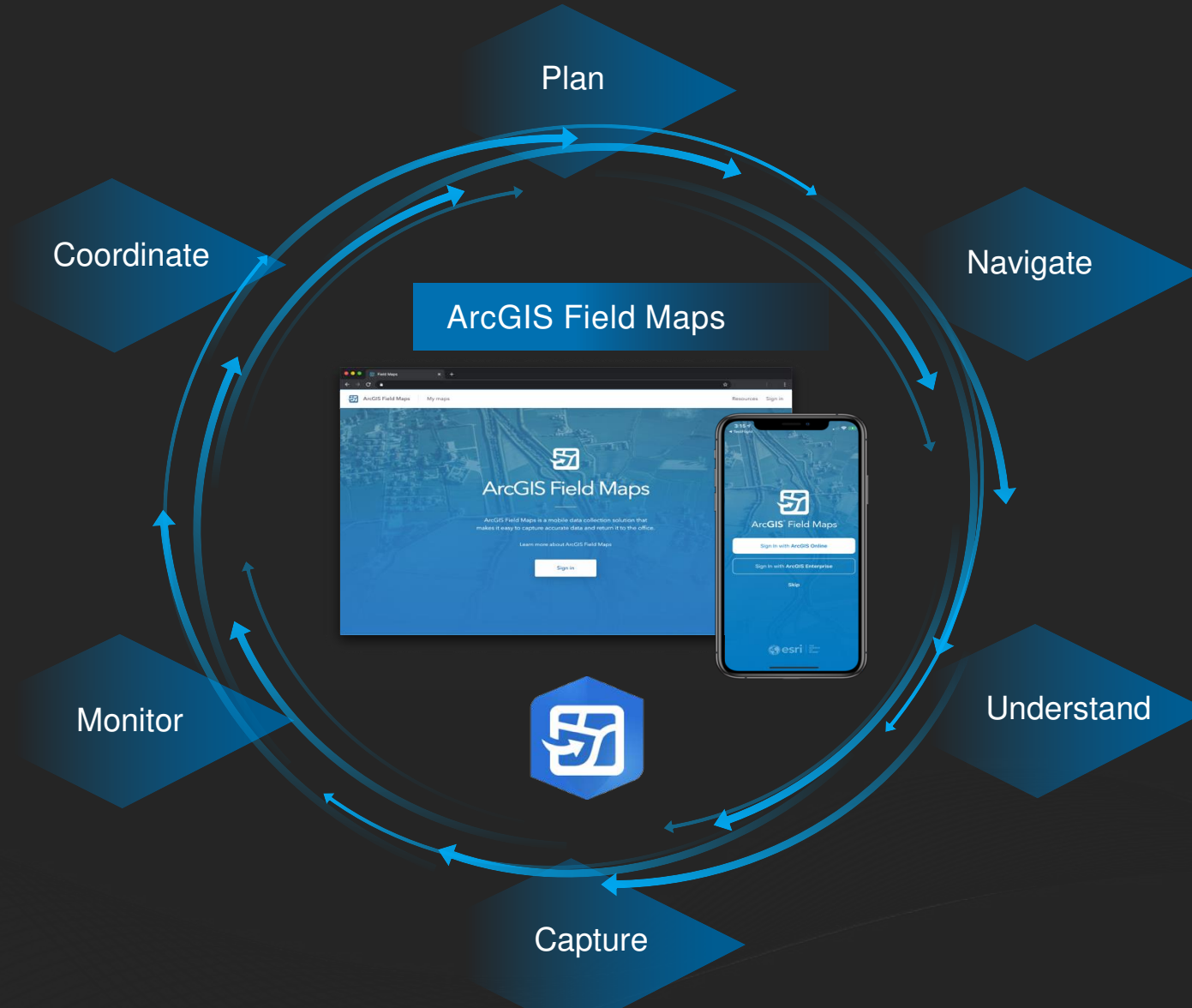
Jeff Shaner



# Field Operations | Focused apps for each activity...



# Field Operations | ArcGIS Field Maps



## Specialized Apps

- ArcGIS Survey123
- ArcGIS QuickCapture
- ArcGIS Mission Responder
- ArcGIS Indoors
- ArcGIS Earth



# ArcGIS Field Maps | One app

5 key capabilities in one app

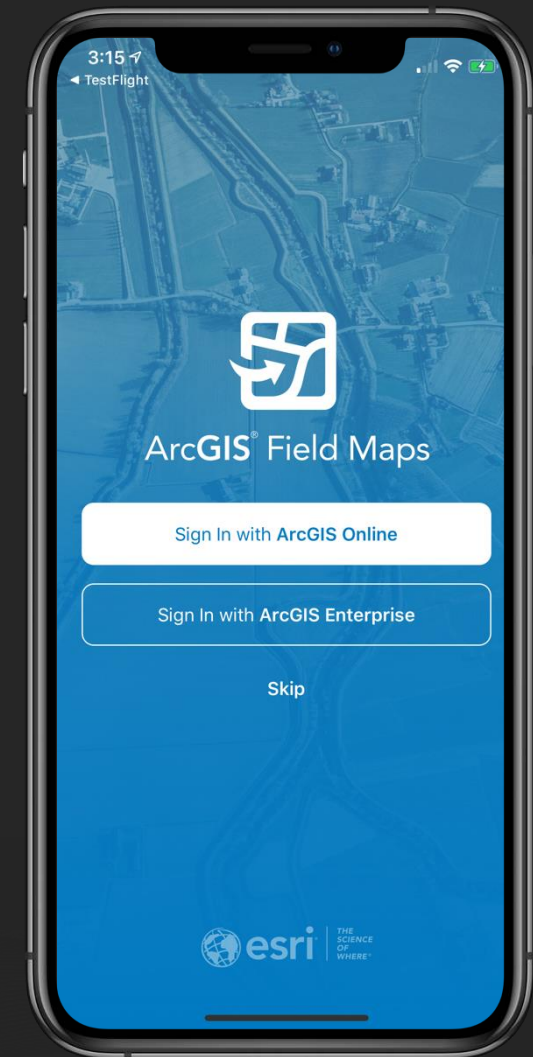
1. Map Viewing
2. Map Markup
3. Data Collection
4. Asset Inspection
5. Location Tracking



# ArcGIS Field Maps | Mobile app

December 2020 Release

- Map viewing
  - View rich cartographic maps, update in real-time
  - Search location, addresses, features
  - Support for **Indoor maps**
- Map markup
  - Notes, **freehand sketch**, markers
  - Share peer-to-peer, by email, to organization
- High accuracy data collection
  - Capture point, line, area features
  - Use external **GPS or Map**
- Robust **smart form** editing for inspections
  - Simplified form management, conditional visibility, required fields
- View, record and share **location tracks**
  - Apple watch support, track for duration



Field Maps requires iOS 13.5, Android 8 (API 26)

# ArcGIS Field Maps | Mobile app

## Mapping capabilities

### Map Support

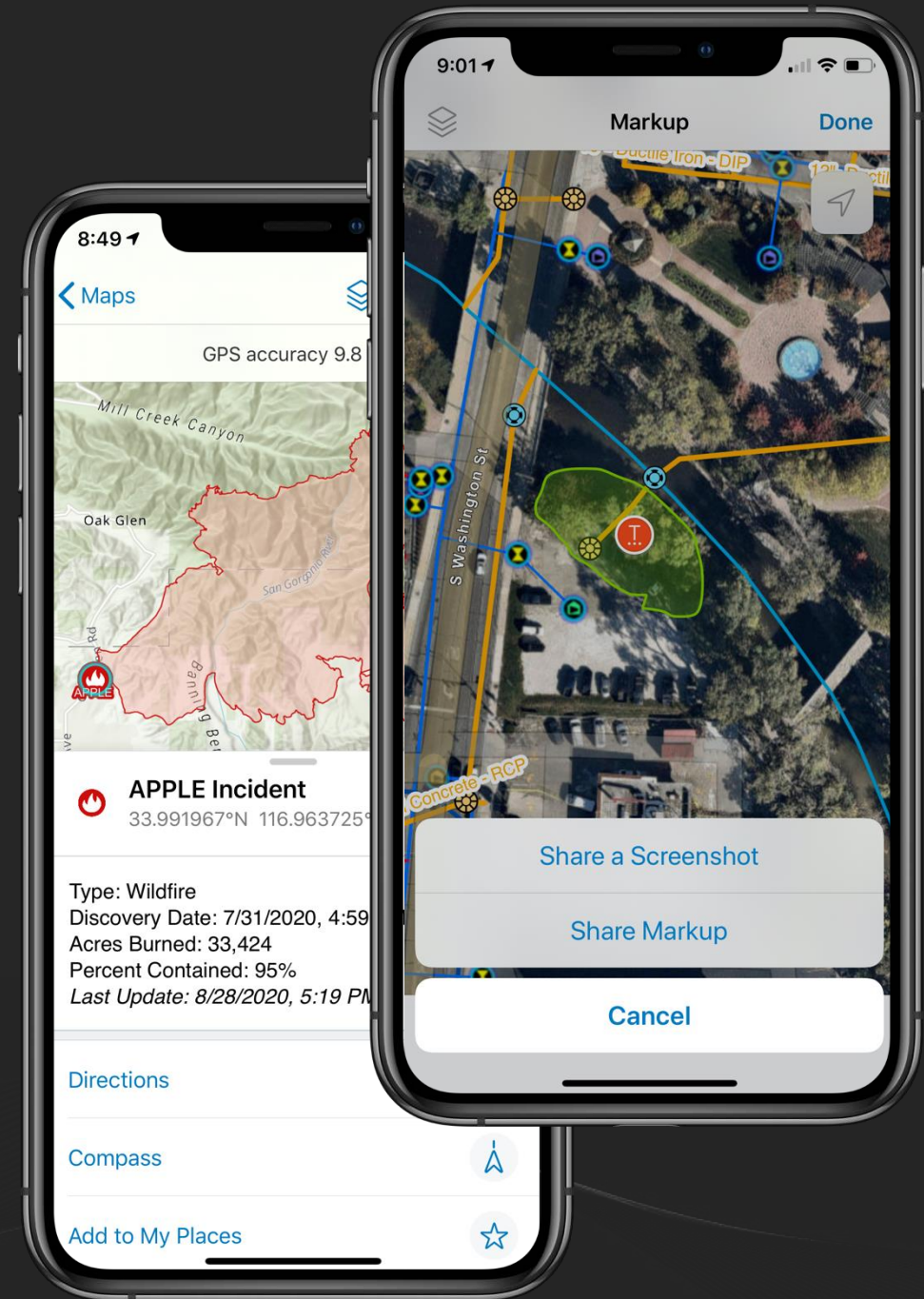
- Advanced symbology/Labeling (w/Arcade)
- **Group layers**, Annotation
- Popups (w/Arcade including **feature sets**)
- Layer refresh for auto-updates

### Map Tools

- GPS, Basemaps, Bookmarks, Layers, Legend
- Measure, Search
- Download, Sync
- Directions, **Compass**

### Markup and Share Map

- Place a marker
- Freehand sketch lines and areas
- Recognize **shapes**



# ArcGIS Field Maps | Mobile app

## Data collection capabilities

- GPS Capture capabilities
  - Single Point/vertex capture (w/ **Z-value**)
  - Streaming data capture (lines/areas)
  - **Averaging**
- Understanding Accuracy
  - GPS bar
  - GPS **metadata**
  - Required accuracy
  - Confidence level
- Connecting to Receiver
  - **Location Provider**
  - Location Profile

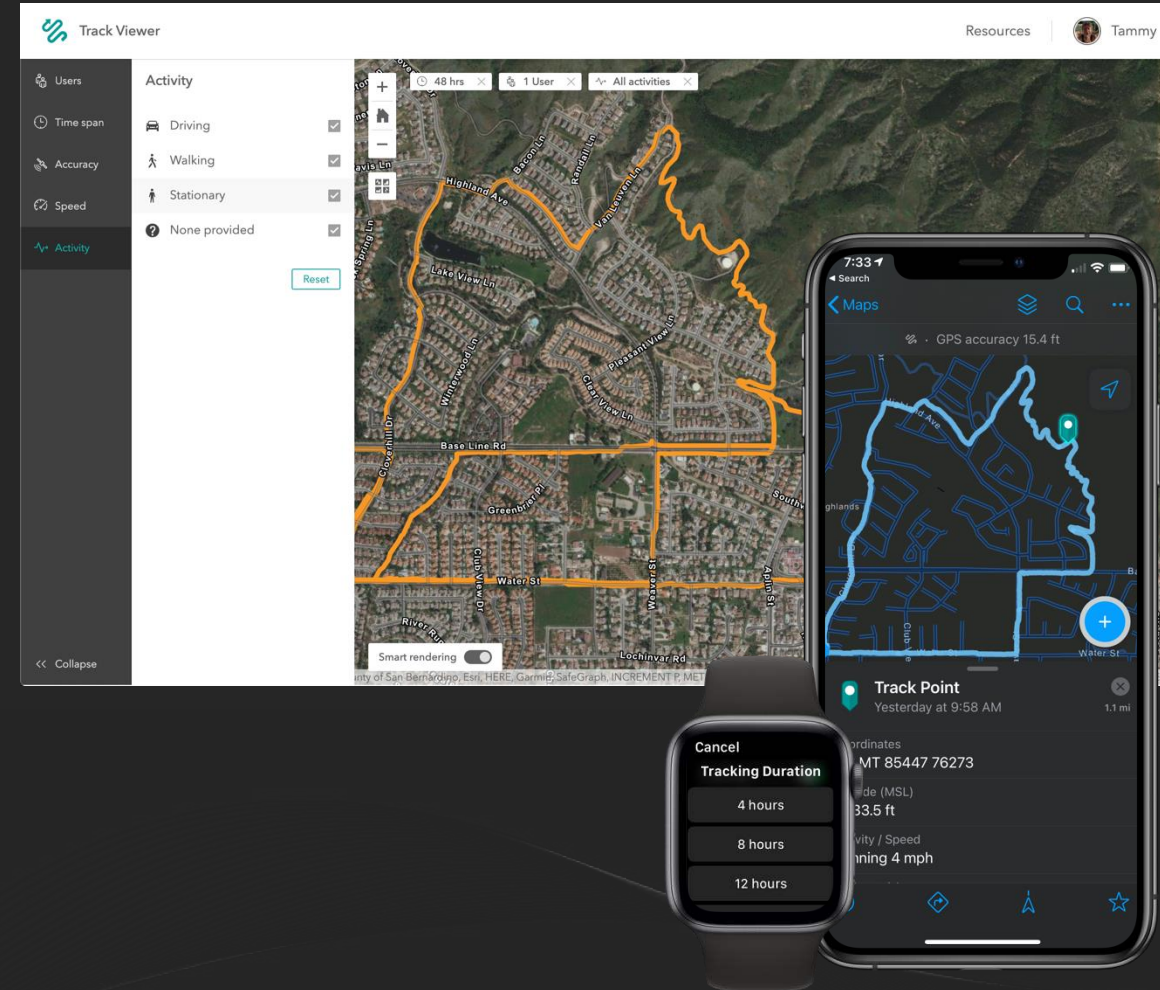
The image displays five overlapping screenshots from the ArcGIS Field Maps mobile application, illustrating various data collection and configuration settings.

- Accuracy Screenshot:** Shows the 'Accuracy' settings under a 'Profile' header. It includes a 'Distance (centimeters)' field set to 5, a '95% Confidence' toggle switch, and a note: 'Report horizontal and vertical accuracy at a higher confidence level.'
- Streaming Screenshot:** Shows the 'Streaming' settings under a 'Profile' header. It includes a 'Distance (meters)' field set to 3 and a note: 'Set how often to collect a new point while streaming.'
- GPS Details Screenshot:** Shows the 'GPS Details' screen with various location metrics: Provider (R2, 5544S01871: Trimble), Altitude (HAE) (1,183.9 ft), Horizontal Accuracy (RMS) (0.6 in), Vertical Accuracy (RMS) (1 in), Fix Type (RTK Fixed), Station ID (--), Correction Age (1 sec), Satellites (Used/Visible) (13/31), Current Location Profile (Esri base station), Correction Source (NTRIP), and Battery (52%).
- GPS Averaging Screenshot:** Shows the 'GPS Averaging' settings with a toggle switch turned on and 'Points to Average' set to 5. A note states: 'Set the number of points you would like to average. Minimum number of points is 2.'
- Add Provider Screenshot:** Shows the 'Add Provider' dialog with a 'Cancel' button, a text input field containing 'Bad Elf #145285', an 'Add' button, and a note: 'To pair a new receiver to your device, go to Bluetooth Settings.'

# ArcGIS Field Maps | Mobile app

## Location Tracking capabilities

- Supports **Viewer** user type + ArcGIS Tracker license
- Battery savings location tracking capability, driven by **activity**
- Switch tracking on/off for all maps from maps screen or within a map
  - Track for a **duration**
- View location tracks in any map (iOS/Android)
  - Turn tracks layer on/off
  - Set track duration
- Supported on Apple Watch
- Use **Track Viewer** to share tracks with others



# ArcGIS Field Maps | Web app

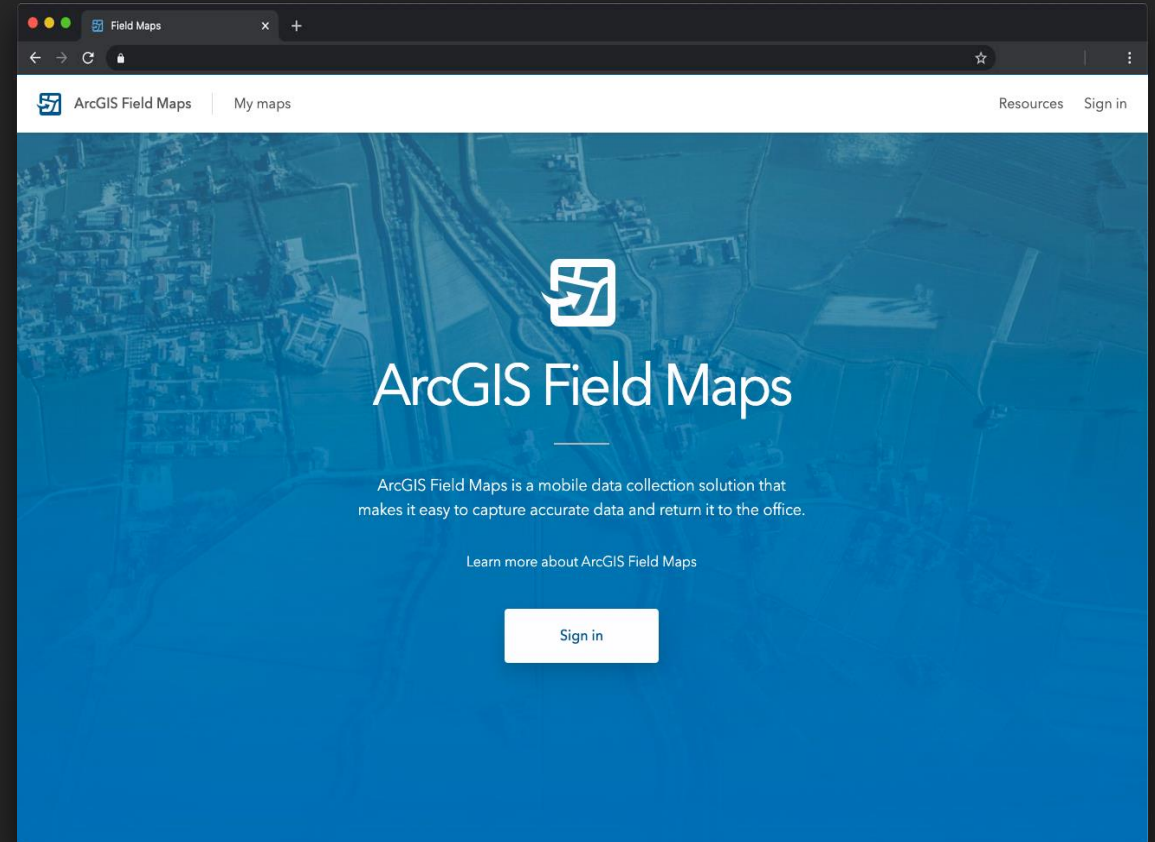
December 2020 Release

## Capabilities

- Configure **map visibility** and **properties**
- Configure **map content**
- Manage **offline** experience
- **Share** maps into groups

## Requirements

- ArcGIS Online or ArcGIS Enterprise 10.8.1+
- Not supported on IE 11 browser
- Create privilege required
- **Maps** you own



# ArcGIS Field Maps | Feature templates

## Data collection types

### Feature Templates

- Unique types of features you create in a feature layer using the map or GPS
- Include a symbol, name, description, and set of values
- Configuration Capabilities
  - Order Feature Templates and Types
  - Alter name and description
  - Apply default values per template
  - Delete templates
  - Duplicate templates

The screenshot displays the ArcGIS Field Maps interface for a map titled "El Dorado Fire - Templates" under the "Damage Assessments" layer. The interface is divided into several sections:

- Layers:** Shows the "Damage Assessments" layer selected.
- Templates:** A list of feature templates for damage assessments, including:
  - Destroyed (>75%)
  - No Damage
  - Superficial Damage (1-9%)
  - Minor Damage (10-25%)
  - Moderate Damage (26-50%)
  - Major Damage (51-75%)
- Properties:** A panel on the right for configuring the selected template, including fields for "Display name", "Description", "Default Values", and "Review Status".

A blue arrow points from the text "Feature templates" to the list of templates in the "Templates" section. Another blue arrow points from the same text to the "Minor Damage (10-25%)" template entry.

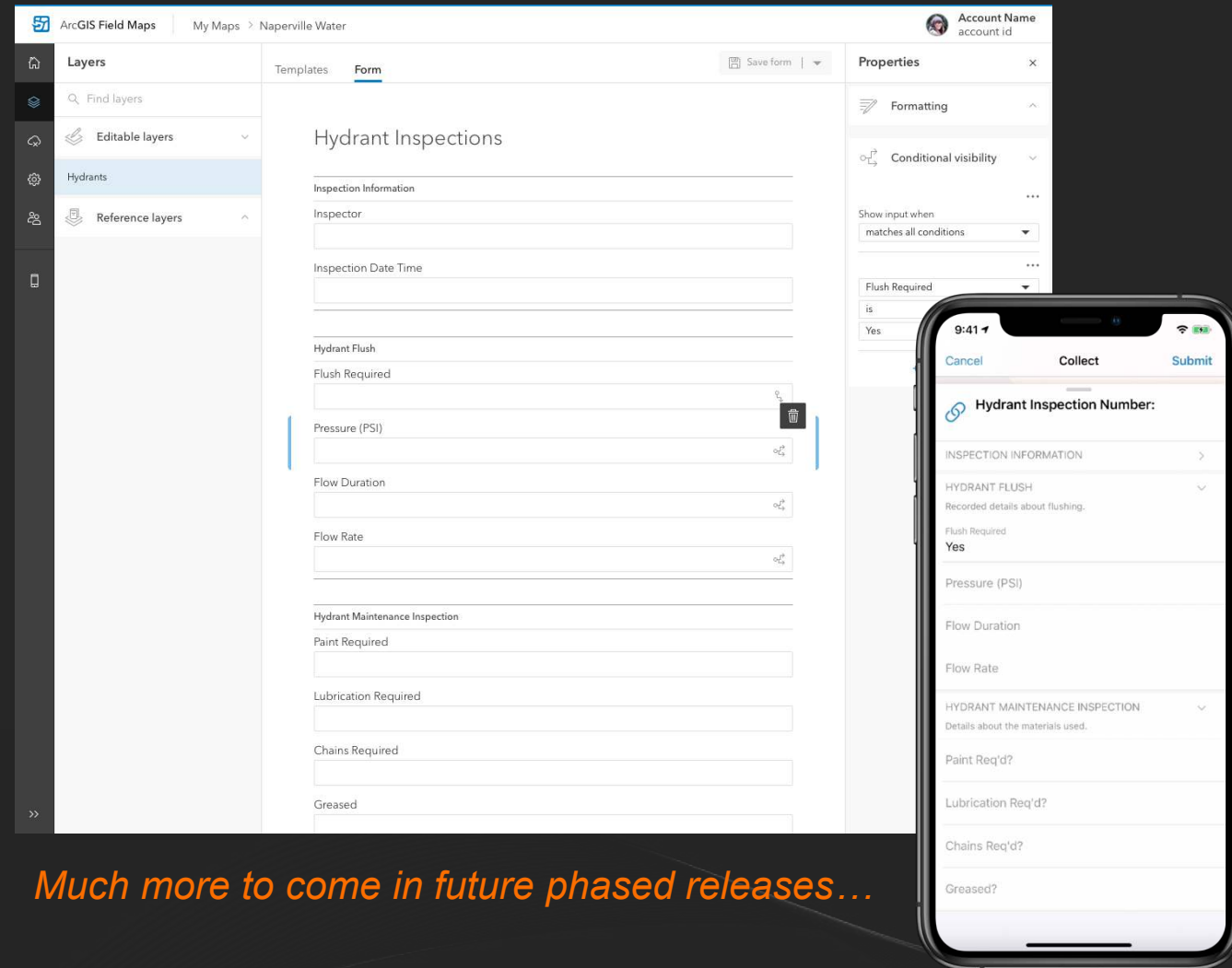
# ArcGIS Field Maps | Smart forms

## Map-based forms

- New way to create and edit attributes in ArcGIS
  - Forms **included** in web maps
  - Form editing in Map Viewer Beta
- Simplifies field editing experience
- Design experience in Field Maps web app

## Key capabilities

- Use **groups** to organize fields
- Apply **conditional visibility** to fields
- **Format** your form and it's fields
- Qualify **required** and read-only fields



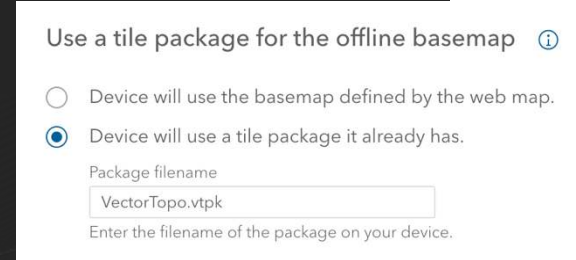
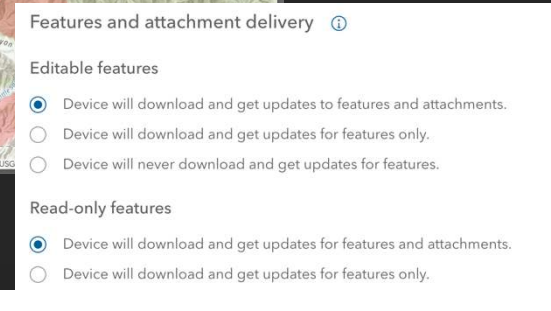
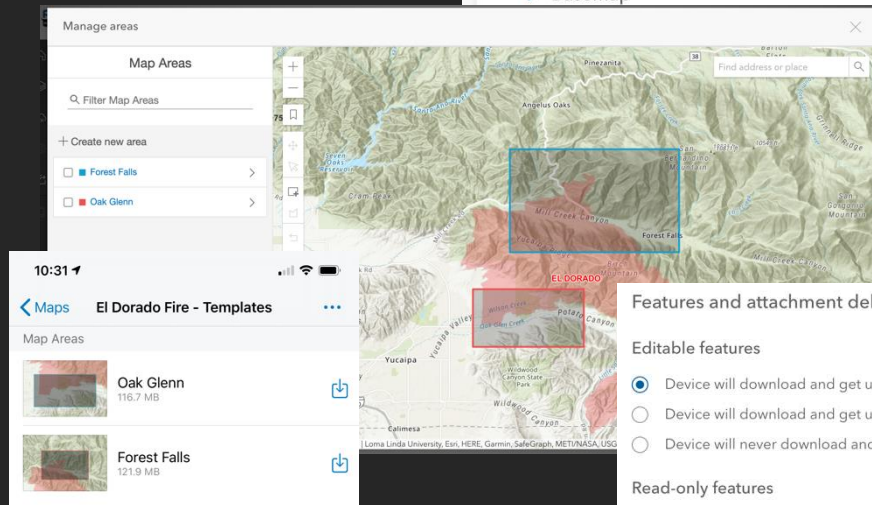
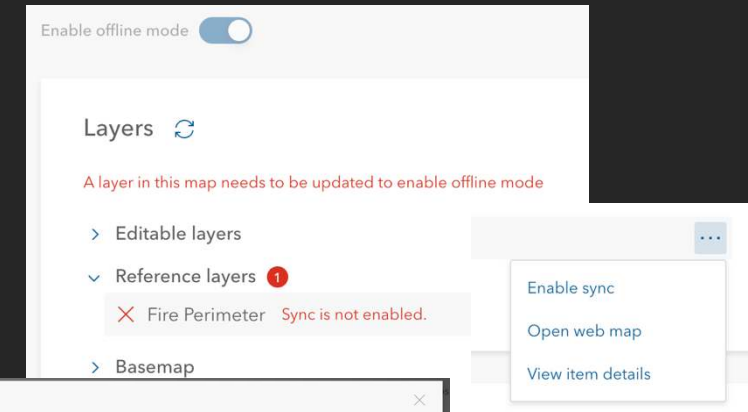
*Much more to come in future phased releases...*

# ArcGIS Field Maps | Offline maps

Central management of offline capabilities

## Manage Offline Map Capabilities

- Enable/Disable offline mode
- Diagnose and fix map layer issues
- Create and manage offline map areas
- Adjust delivery of features and attachments
- Reference offline basemaps



# ArcGIS Field Maps DEMO

## Evaluate equitable drinking fountain distribution

Collect drinking fountain locations with ArcGIS Collector and analyze their condition.



Author

Charlotte Smith

Duration

🕒 1hr(s)

Field Operations

Mapping

Spatial Analysis & Data Science

Health & Human Services

*Evaluate equitable drinking fountain distribution*

# ArcGIS Field Maps | Additional information

## Resources

### Product Content

- [Product page](#) and [resources page](#)
- [Blog articles](#)
- Guides
  - [Migration guide](#), [Offline guide](#)
- Learn Pathways
  - [Try ArcGIS Field Maps](#)
- [YouTube Playlist](#)
- GeoNet (community, ideas)



#### 5 things to try in Field Maps

ArcGIS Field Maps offers a variety of features for working with maps in the field. Check out these five capabilities to get started.

[Read this article](#)

[Article](#)



#### Announcing ArcGIS Field Maps

ArcGIS Field Maps is Esri's new premier maps app on iOS and Android devices.

[Read this article](#)

[Article](#)

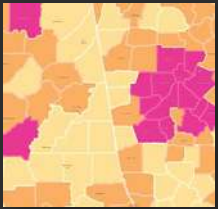


#### Migrate to ArcGIS Field Maps

Resources for migrating to ArcGIS Field Maps from ArcGIS Collector, ArcGIS Explorer, and ArcGIS Tracker.

[Read this article →](#)

[Article](#)



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SCIENCE  
OF  
WHERE**

