

Mobile Datenerfassung

Connecting the office with the field

Dirk Vogel (**SynerGIS**)

Uli Zangerl & Volodymyr Ostash (**viadonau**)

Andreas Mätzler (**Vorarlberger Energienetze**)

Gunther Nelgen (**VertiGIS**)

2026 ESRI USER CONFERENCE AUSTRIA
– powered by SynerGIS

Agenda for this Subtrack

09:00 – 10:30

1



Dirk Vogel & Veronika Schafellner (SynerGIS)
Connecting the Office with the Field

2



Uli Zangerl & Volodymyr Ostash (viadonau)
HydroControl: Field-Maps-basiertes Pegelkontroll- und Verwaltungssystem

3



Andreas Mätzler (Vorarlberger Energienetze) & Gunther Nelgen (VertiGIS)
Grundablöse im Leuchtturmprojekt Lünerseewerk II

My connection with Field Operations

From paper to digital maps

 **esri** Nederland (2021 – 2025)
THE SCIENCE OF WHERE™

Helped organizations migrate from paper forms to digital maps and mobile applications

synergis (2026 - now)

Account manager for different sectors where Field Operations is a crucial business element

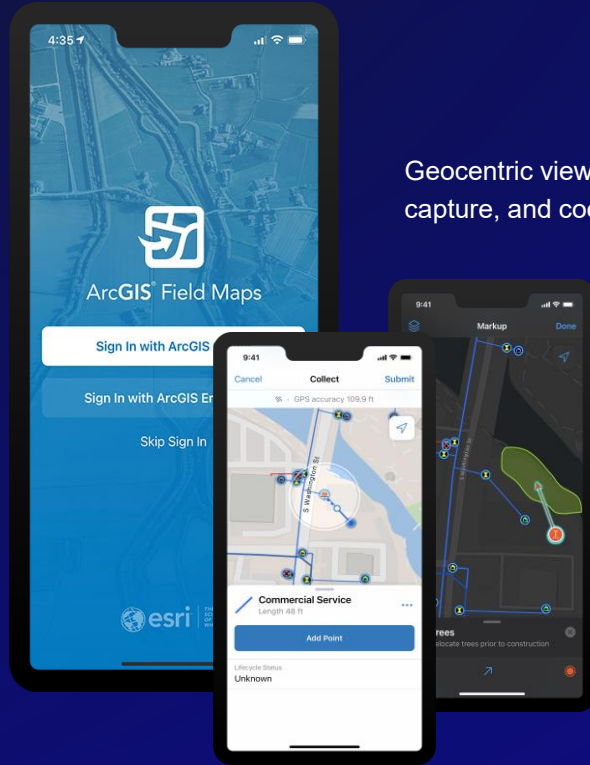


Field Operations Workflow

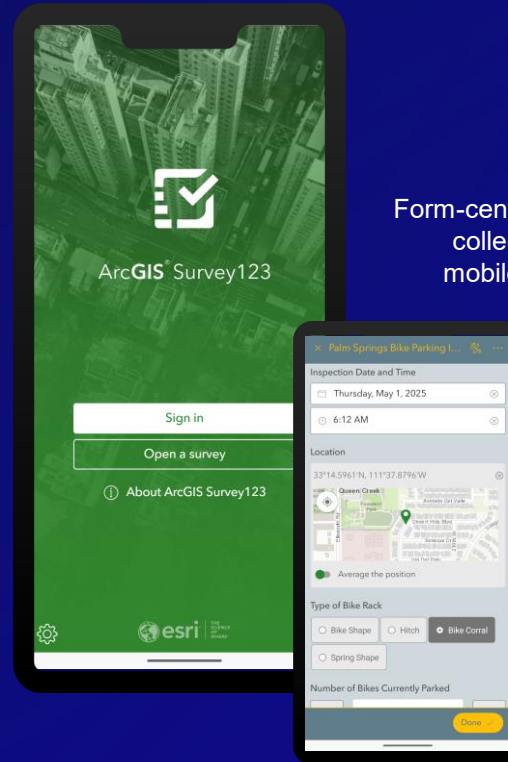
The information on the map connects the different silos



Field Collection Apps



Geocentric viewing, data capture, and coordination



Form-centric data collection for mobile & web

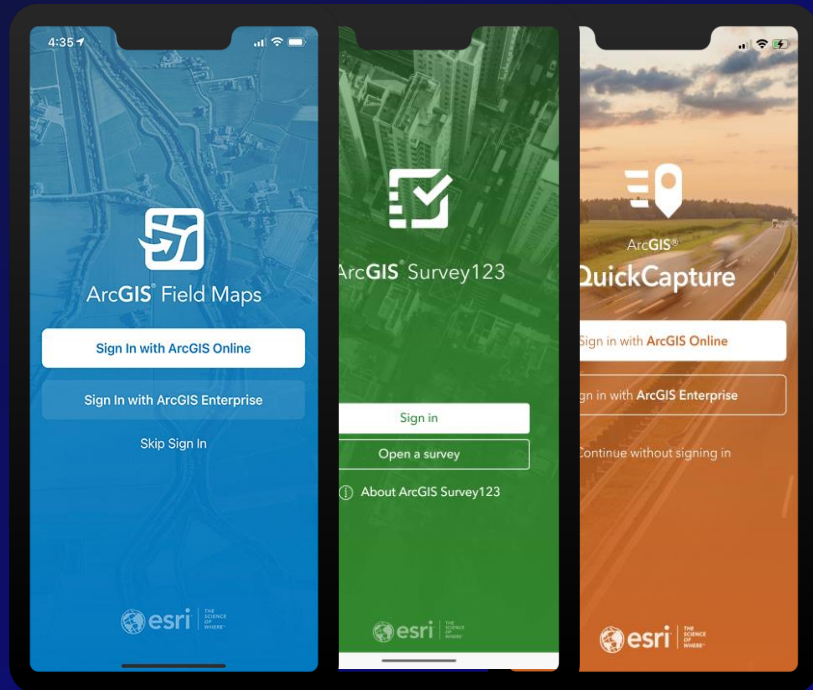


Fast Observation Capture with Location Sharing & Oriented Imagery

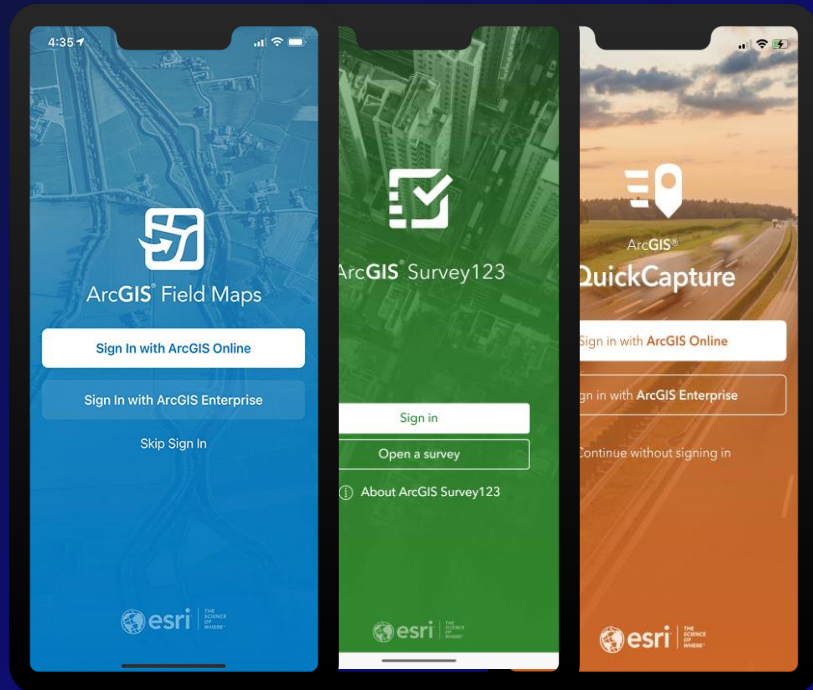


ArcGIS Navigator

Field Collection Apps



Field Collection Apps



Deprecation Notice for ArcGIS Workforce

By [Liz Armstrong](#)

ArcGIS Workforce is scheduled for retirement in late 2026. Please see the deprecation [notice](#).

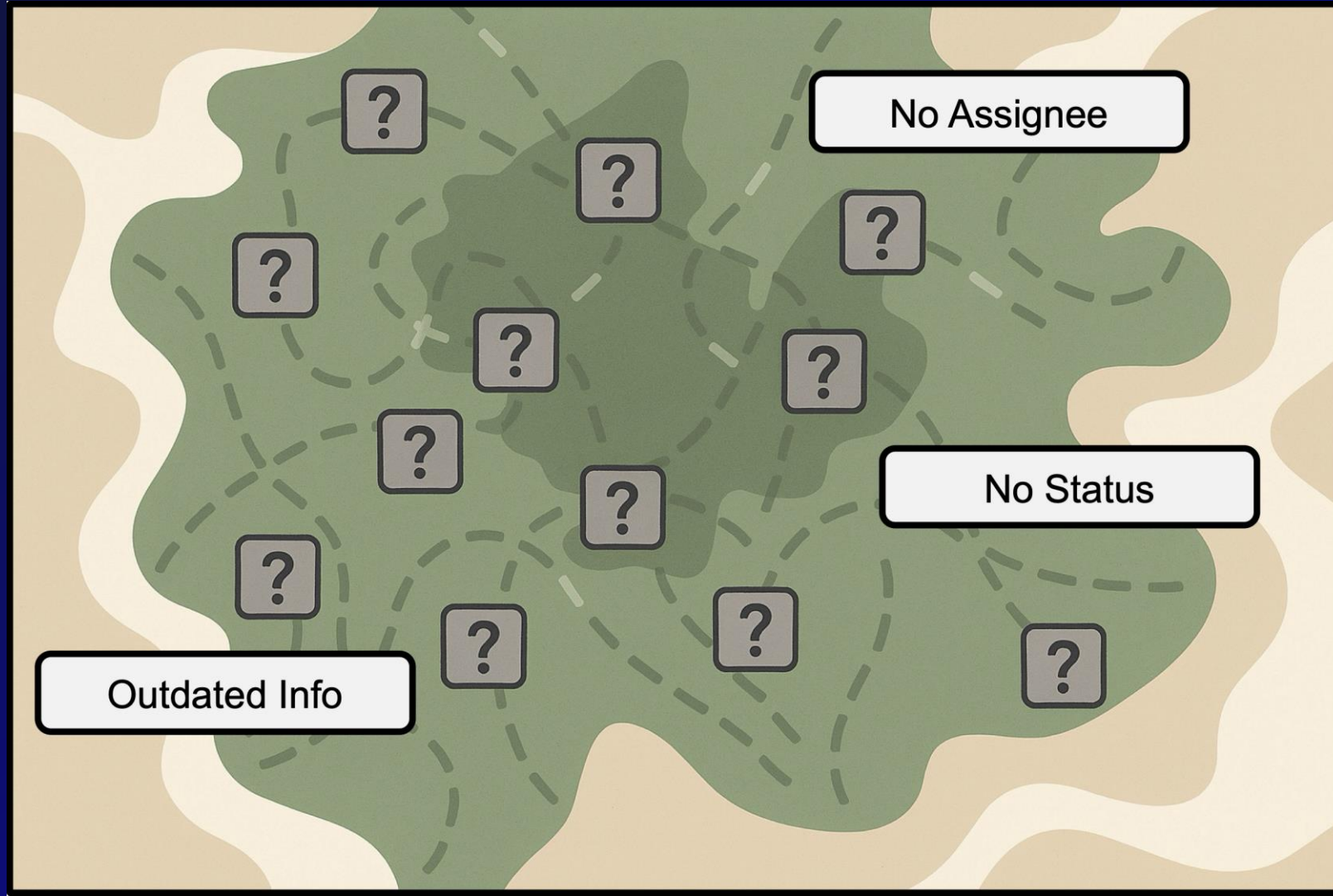
- ArcGIS Online, Q4 2026 update
- ArcGIS Enterprise 12.2, Q4 2026 release

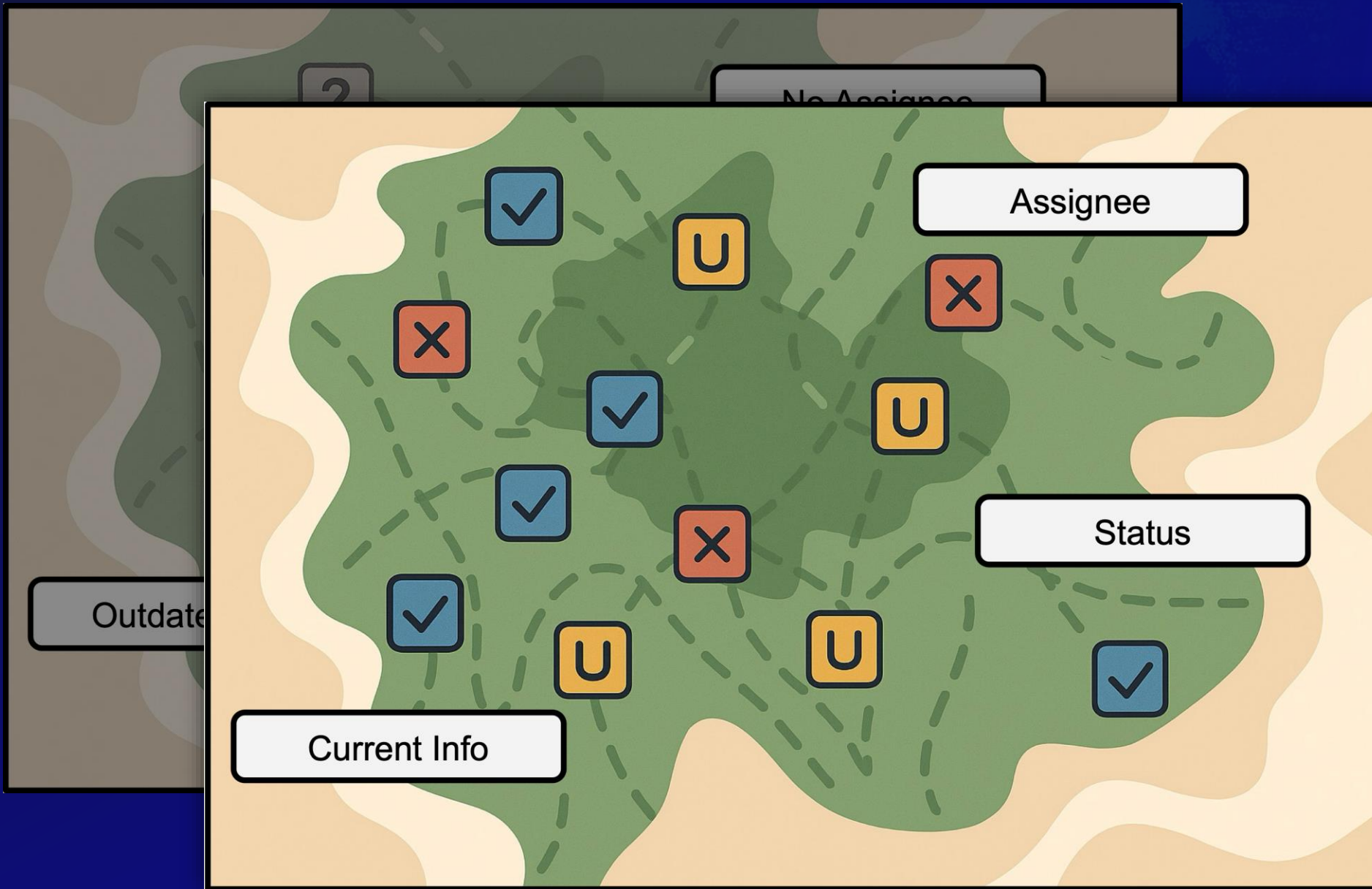
Replaced by.....

Tasks in ArcGIS Field Maps

October 2025 release







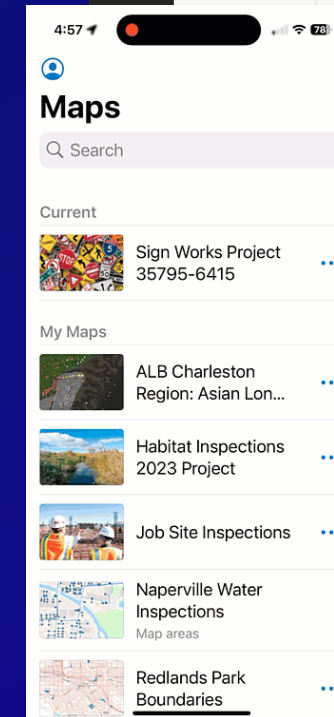
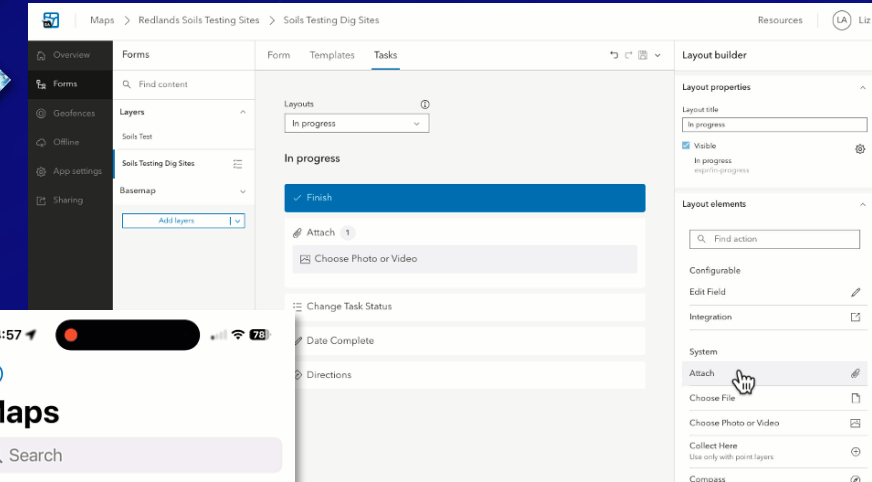
What are Field Maps Tasks

Create a task-focused workflow in Field Maps

Designed to simplify the **coordination** of individual tasks that need to be completed in the field by creating a to-do-list

Benefits:

- Create, assign, and prioritize tasks
- Step by step field workflow
- Less distractions
- Track work progress
- Only show the information your workforce needs
- Flexibility of workflow based fields



Tasks are configured in Field Maps Designer



Field Workers use Field Maps to complete assigned tasks

What's New in ArcGIS Field Maps

March and June 2026 Releases





Latest updates in ArcGIS Field Maps

March 2026 release

Situational Awareness

- **Geospatial PDF maps**
- Associations pop-up element

Capture & Forms

- Date-only and Time-only support
- Edit Multiple support for Subtype Group Layers
- ArcGIS Arcade assistant (beta)
 - Form calculations & constraints, Tasks

Quality of life improvements

- Improvements to AddRelatedFeature app link
- Arcade performance improvements with forms and popups

Date-only/Time-only form entry

Geospatial PDF maps

June 2026 release

Coordination

- **Custom sort for task filters**

Situational Awareness

- Displaying and filtering attachments in the pop-up

Capture & Forms

- **Attachments as part of the form**
- **Multiple Choice as input in the form**
- Switch between branch versions
- Extended GNSS Metadata
 - Tilt compensation (Trimble*)

Quality of life improvements

- Search improvements (web and mobile)
- See active portal in user profile (iOS only)
- New form authoring elements in Field Maps Designer, consistent with Map Viewer

Capture photos in the form

Select multiple values

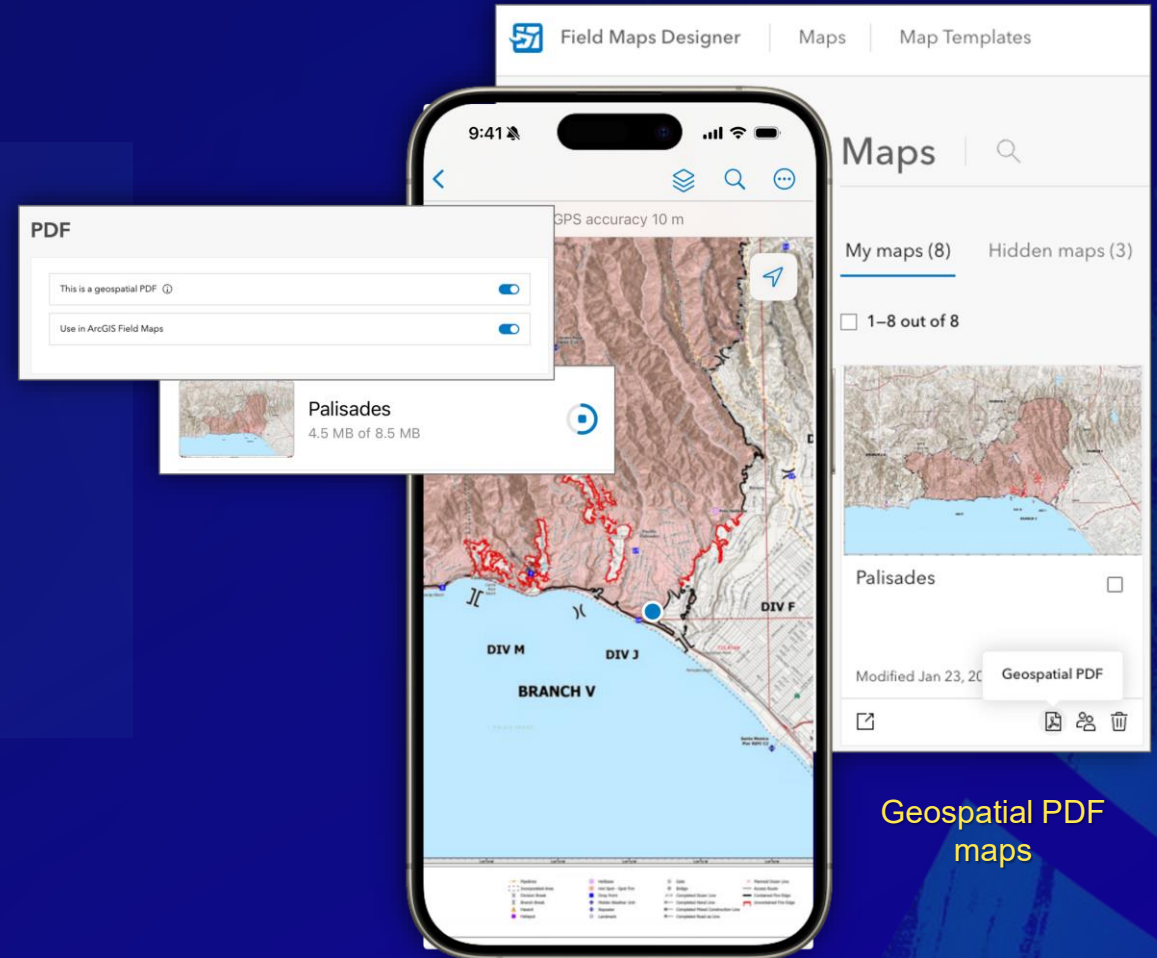
Geospatial PDF support

What?

- PDF that contains coordinate system information
- New type of read-only offline map or basemap

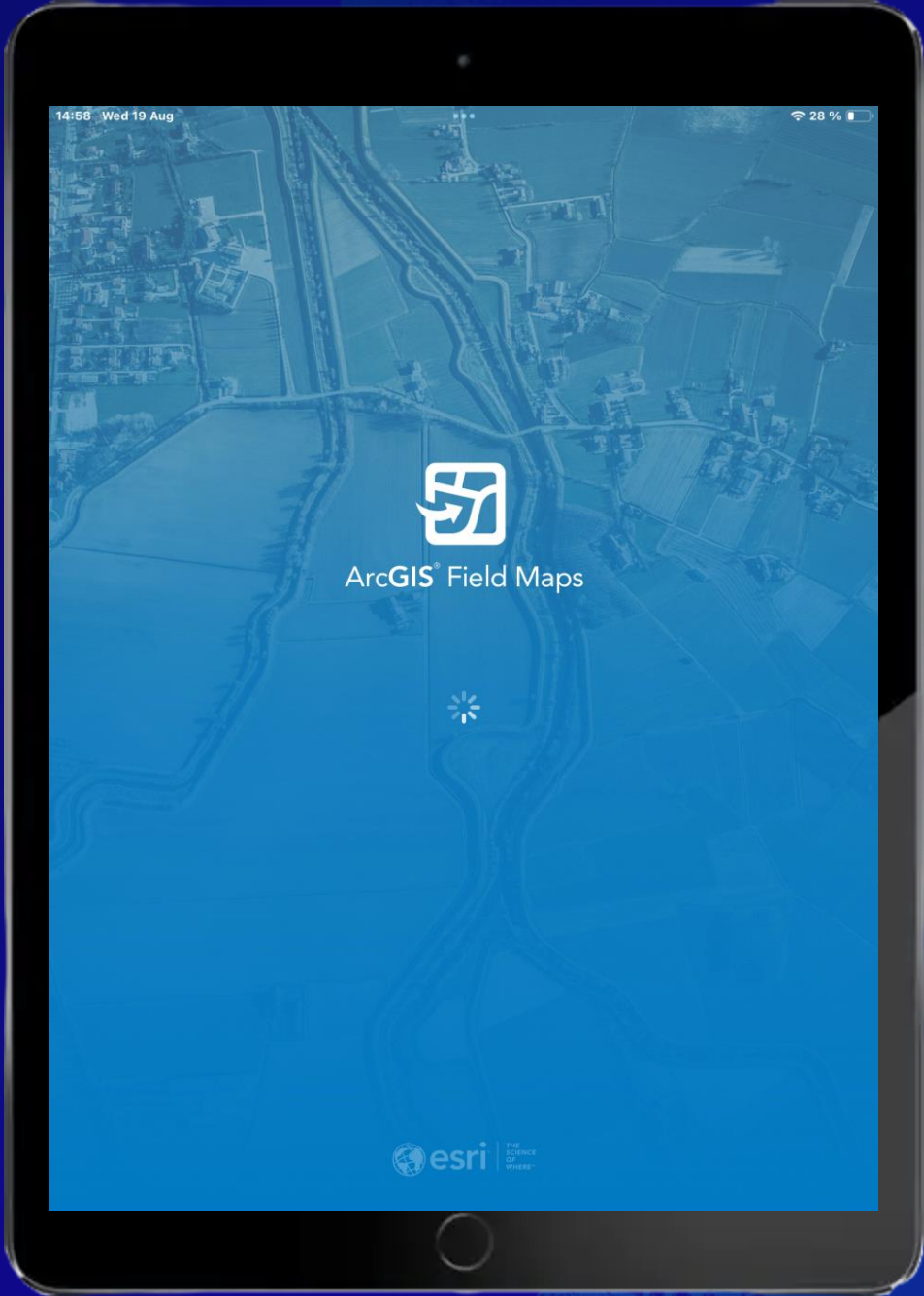
Benefits:

- Not everything exists as GIS data (yet)
 - Construction plans
 - Engineering drawings
 - Emergency plans
- View location, measure distances, add markups





Source: Stadt Wien, Wieden



Multiple Choice

Top requested form input type

What?

- Multiple Choice is a new form element
- Stored as comma-separated text in a string field
- Can be driven from logic
- Support Min/Max options

Benefits:

- Huge time-saver
- Shorter forms (less fields)
- Cleaner data model

A screenshot of a Field Maps form. At the top, it asks 'WAS MAINTENANCE REQUIRED?' with a 'Yes' button and a toggle switch that is turned on. Below this is a section titled 'Valve maintenance' with a dropdown arrow. Underneath is a section titled 'MAINTENANCE PERFORMED' which contains a 'Select All' button and a list of checkboxes: 'Clean valve box', 'Paint', 'Remove corrosion', 'Replace valve stem' (checked), 'Seal leaks' (checked), and 'Additional work' (checked). At the bottom of this list is a text input field containing 'Replace valve box' with a clear button (X). Below the form is a 'Take Photo' button with a camera icon.

Improvements for Attachments

Fine tune attachments as part of filling out a form

What?

- From one generic attachment area, to specific attachment elements
- Configure properties
 - File type (general, photo, document, etc)
 - Min / Max count
 - File Size
 - File naming rules (with Arcade)

Benefits:

- Better guidance for field workers
- Better data structure
- Make attachment part of form logic

Observation Details 

Use audio capture to dictate field observations.

DICTATE HABITAT OBSERVATIONS

 [Record Audio](#)

Documentation 

Attach documents about maintenance activities or completed permits.

DOCUMENT

 [Choose File](#)

Photos 

Attach photos captured using external cameras from your photo library.

MEDIA

 [Choose Photo](#)

[Cancel](#) **Collect** [Submit](#)

 **Damage Assessments**

Site Photos
Capture required photos of the structure from each viewpoint

STREET-FACING VIEW *

 [Take Photo](#)



Front of the structure as seen from the primary street

LEFT SIDE

 [Take Photo](#)



Left side as viewed from the street

REAR SIDE

 [Take Photo](#)



 **Affected (1-9%) Damage** 

34.183641°N 118.115593°W 54.2 mi

The following are structural damage assessments from the Eaton Fire. Damage assessments are documented in a clockwise direction starting with an initial, street-facing photo. Using a phonetic naming, additional photos are required and designated by side of the structure (left = bravo, rear = charlie, right = delta).

This assessment was conducted for a **Single Family Residence Single Story** structure on 3/3/2026, 3:29 PM.

Street-facing view 

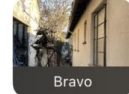
Frontage photo is present for all assessments.



Alpha

Left side 

Additional damage found on left side of structure.



Bravo

Displaying & filtering attachments

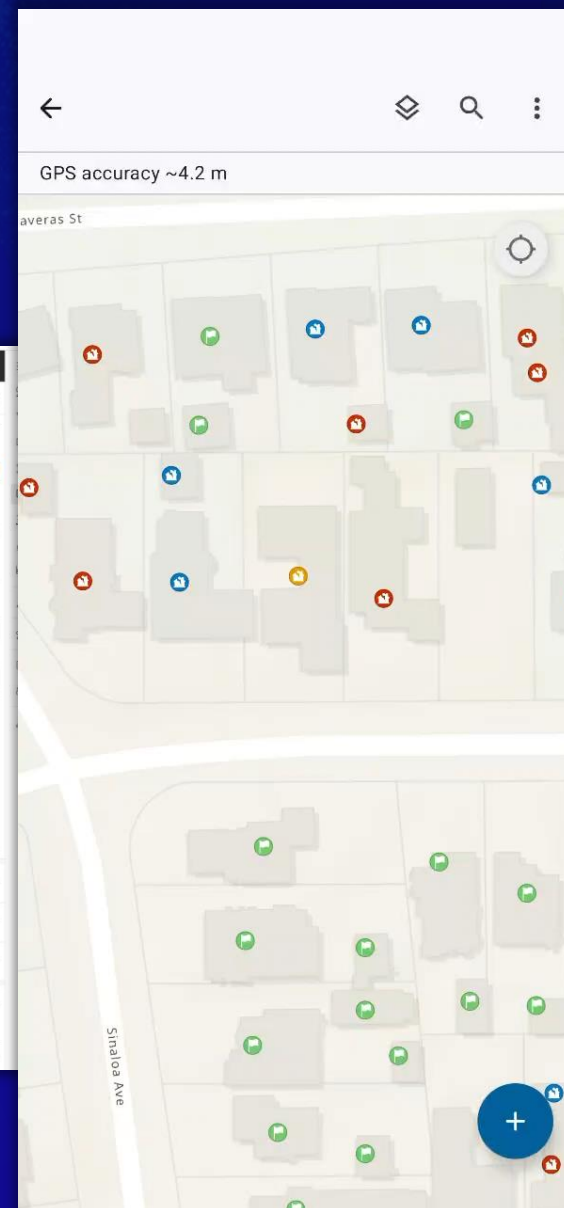
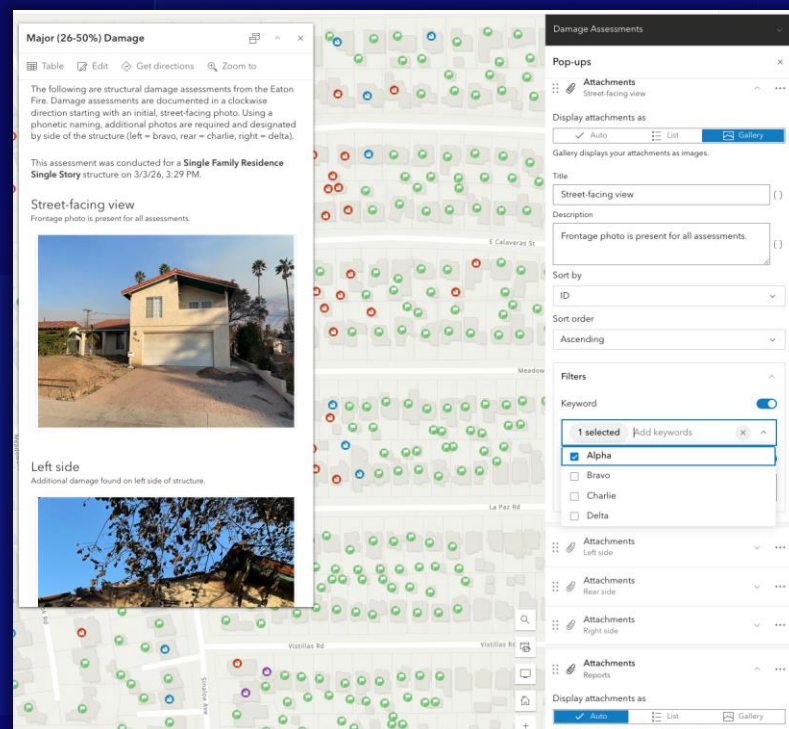
Highlighting key attachments and make it easier to quickly locate the photos, videos, or other files that matter most.

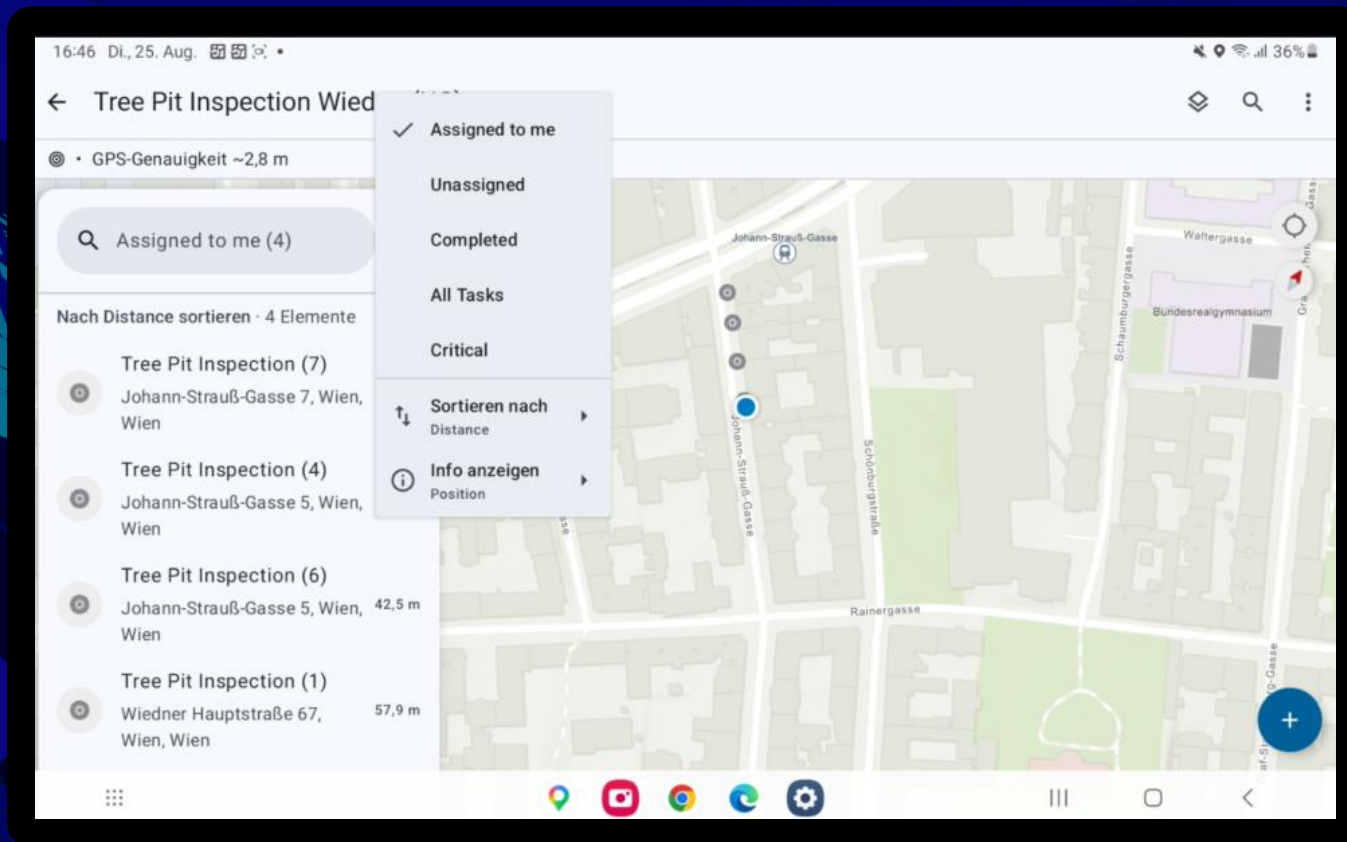
Display key photos in the right order

Multiple attachment pop-up elements

Filter attachments:

- Type
- Keyword





Field Maps in action

Tasks, Geospatial PDF, Attachments, Arcade

Mehr Grün zwischen Blechturm-gasse und Johann-Strauß-Gasse

[← Bezirksvorstehung](#)[Wieden](#)

Das Grätzl zwischen Blechturm-gasse und Johann-Strauß-Gasse wird grüner. Die Arbeiten erfolgen im Sommer und Herbst 2026.

Nachdem die Arbeiten an den Wasserleitungen in der [Johann-Strauß-Gasse](#)  abgeschlossen sind, startet noch im Juli die Neugestaltung der Oberfläche. Die Umgestaltung wurde im Rahmen einer Bürger*innenbefragung im Herbst 2025 beschlossenen. Geplant sind 9 neue Baumscheiben, 2 Hochstammsträucher, eine neue Sitzgelegenheit sowie eine Gehsteigverbreiterung im Bereich der Wiedner Hauptstraße.

Damit wird die Johann-Strauß-Gasse grüner, attraktiver und für Fußgänger*innen sicherer.

Source: wien.gv.at





Inspection work to-do's

- ✓ Update the construction status of the tree pits
- ✓ Report any damage or obstacles in/around the tree pits
 - ✓ Provide evidence with attachments

- Overview
- Forms
- Geofences
- Offline
- App settings
- Sharing
- Open
- What's New
- Collapse

Forms

Find content

Layers

Tree Pits Inspection s

Basemap

Add layers

Form Templates Tasks

Unassigned

Pick up

Directions

Assigned

Start

Directions

In progress

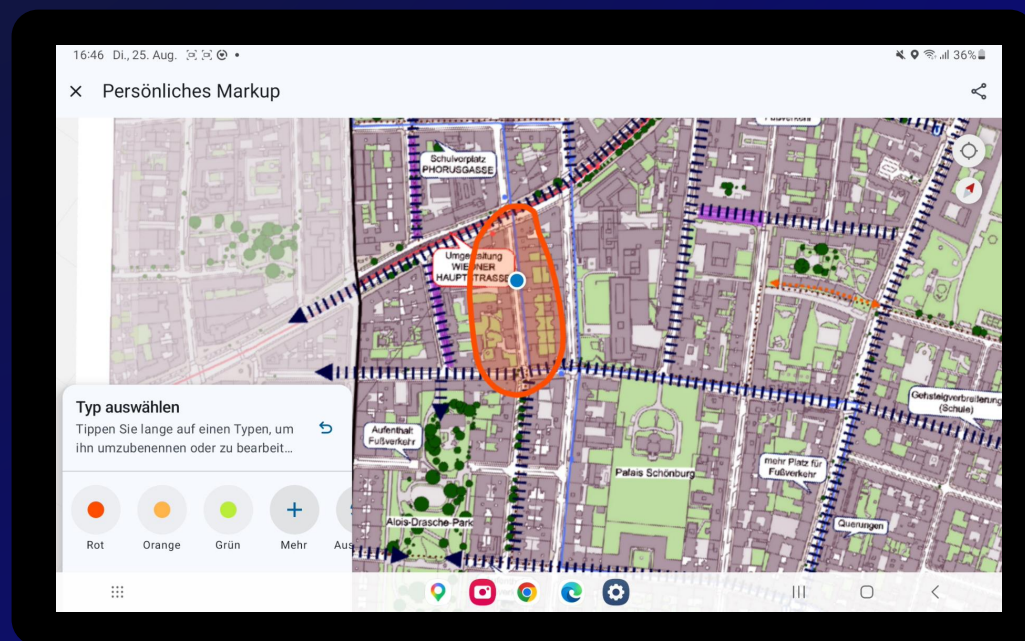
Finish

Construction Status

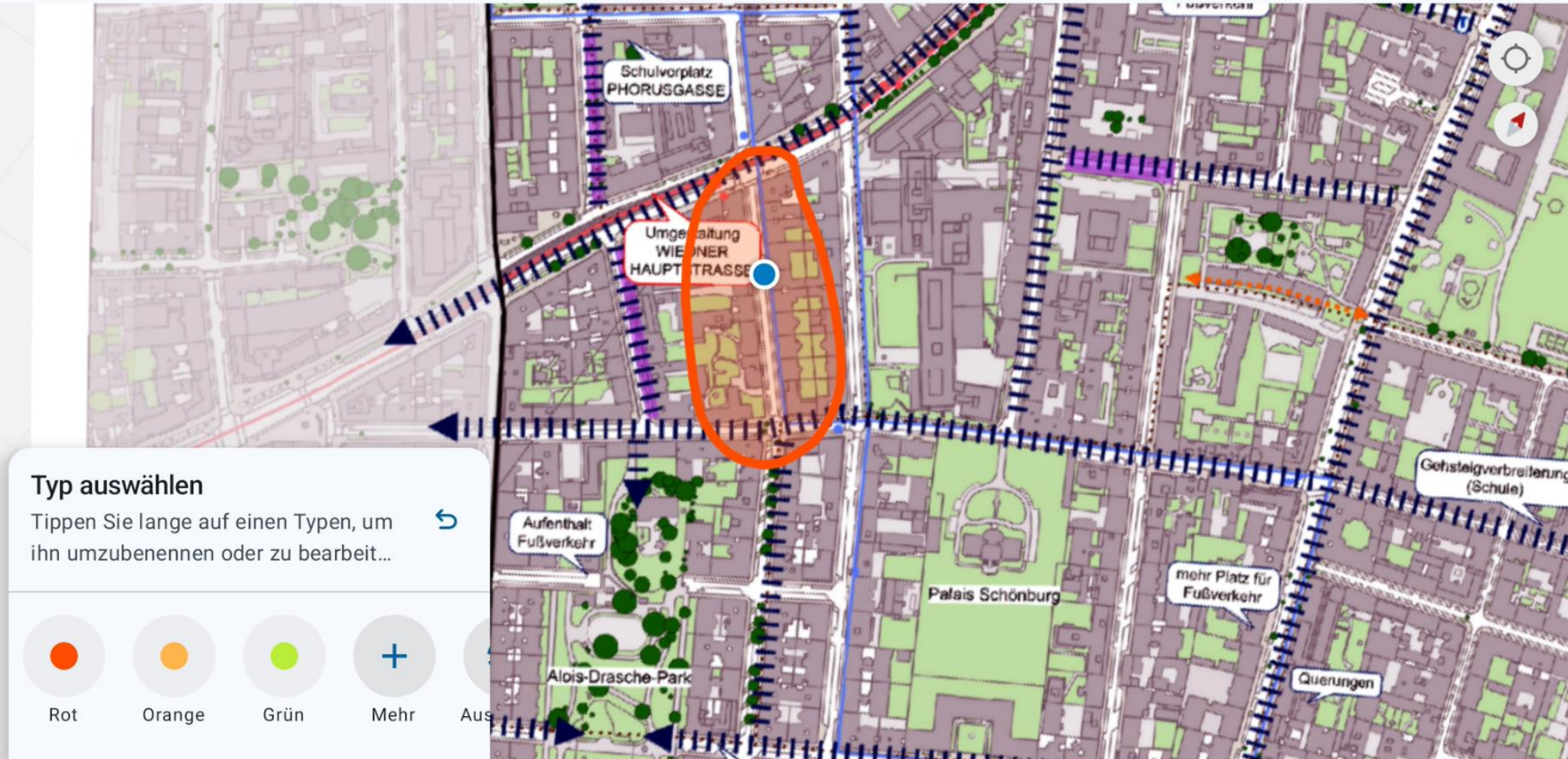
Edit Form

Completed

Status



✕ Persönliches Markup



Typ auswählen

Tippen Sie lange auf einen Typen, um ihn umzubenennen oder zu bearbeiten...



Rot



Orange



Grün



Mehr

Aus





Von synergis.and03@gmail.com

An  burgermeister@wien.gv.at



Damage reported on construction site

Please be aware that damage has been reported during a construction inspection.

Please check the ArcGIS Dashboard for more details:

<https://www.arcgis.com/apps/dashboards/5cca031003f1464e814d2b87b7f33473>



What's new in ArcGIS Survey123

July/August 2026 Release



What's new?

July update (highlights)

- **Translation AI Assistant**
Translate entire survey in a few clicks
- **Survey123 AI Assistant**
Draft survey designs through prompts
- **Rapid Data Capture**
Open an QuickCapture project in **Survey123 Mobile**

- **New user experience:**
 - Survey123 Studio
 - Survey123 Mobile

The image displays two screenshots of the Survey123 interface. The top screenshot shows the 'Tree Pit Inspection Form' in the Survey123 Studio web application. It includes a URL bar with 'https://survey123.arcgis.com/surveys/create', a title 'Tree Pit Inspection Form', and three questions: '1. Mark the location of the tree pit', '2. What is the construction status of the tree pit?', and '3. Is there any damage to the tree pit?'. The bottom screenshot shows the 'Fire Hydrant Inspection Form' in the Survey123 Mobile app. It features a title bar with the time '6:38 PM' and a user profile 'Chris'. The form includes fields for 'Hydrant Location (Address)*', 'Hydrant Location (Map)*' with a map view, 'Hydrant ID Number*', and a question 'Is the hydrant visibly damaged?*'.

https://survey123.arcgis.com/surveys/create

Here's a simple 4-question inspection form for each tree pit, written for the respondent:

Tree Pit Inspection Form

1. Mark the location of the tree pit
Please place a point on the map for the tree pit you are inspecting.
2. What is the construction status of the tree pit?
Select the option that best describes the current status:
 - Not started
 - Partially constructed
 - Fully constructed
 - Under repair
 - Other
3. Is there any damage to the tree pit?

Make a three pit (locations where trees will be planted) inspection form that collects:

- add the location of the tree pit with a point
- what is the construction status of the tree pit (give a few options)
- Is there any damage to the tree pit (give multiple choice options)
- if yes, provide a close up photo and a photo that is far away

+ BETA

6:38 PM

Chris

Fire Hydrant Inspection Form

Hydrant Location (Address)*

Hydrant Location (Map)*

Find address or place

Esri, USGS | Esri, FAO, NOAA, USGS

Powered by Esri

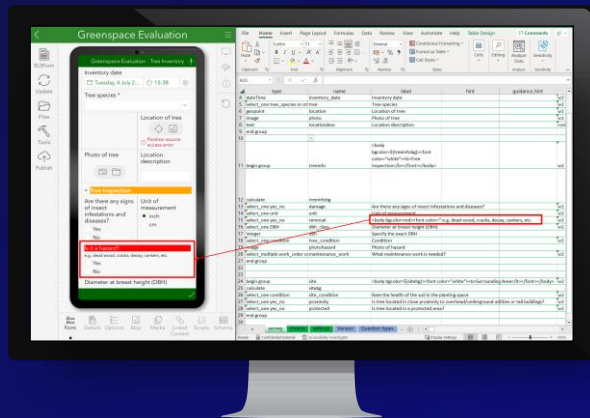
Lat: Lon:

Hydrant ID Number*

Is the hydrant visibly damaged?*

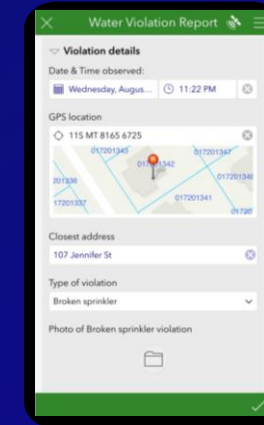
Next-Generation Apps

Desktop Authoring



Survey123 Connect

Field Data Collection

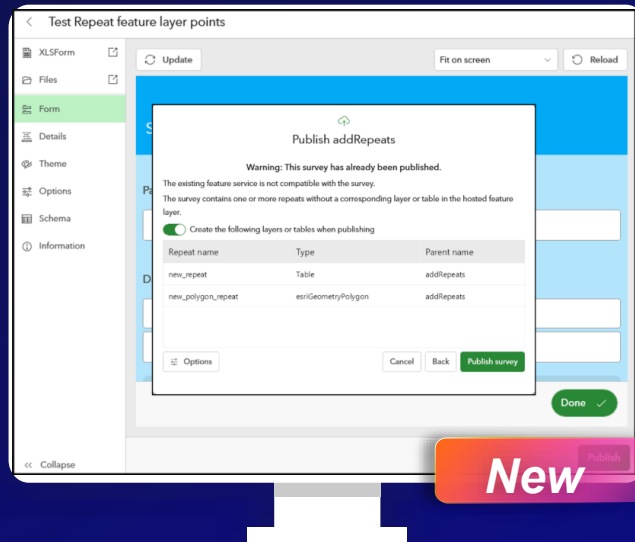


Survey123 (field app)

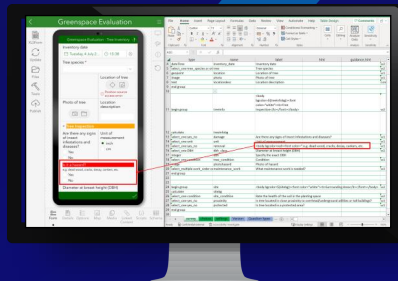
Next-Generation Apps

Desktop Authoring

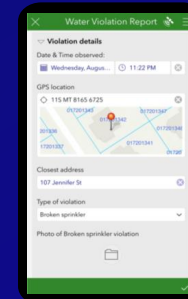
Field Data Collection



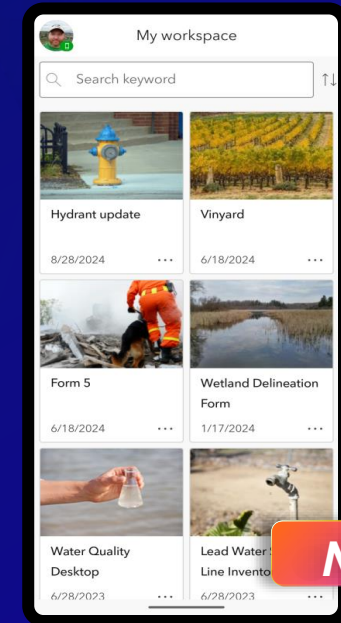
Survey123 Studio



Survey123 Connect



Survey123 (field app)

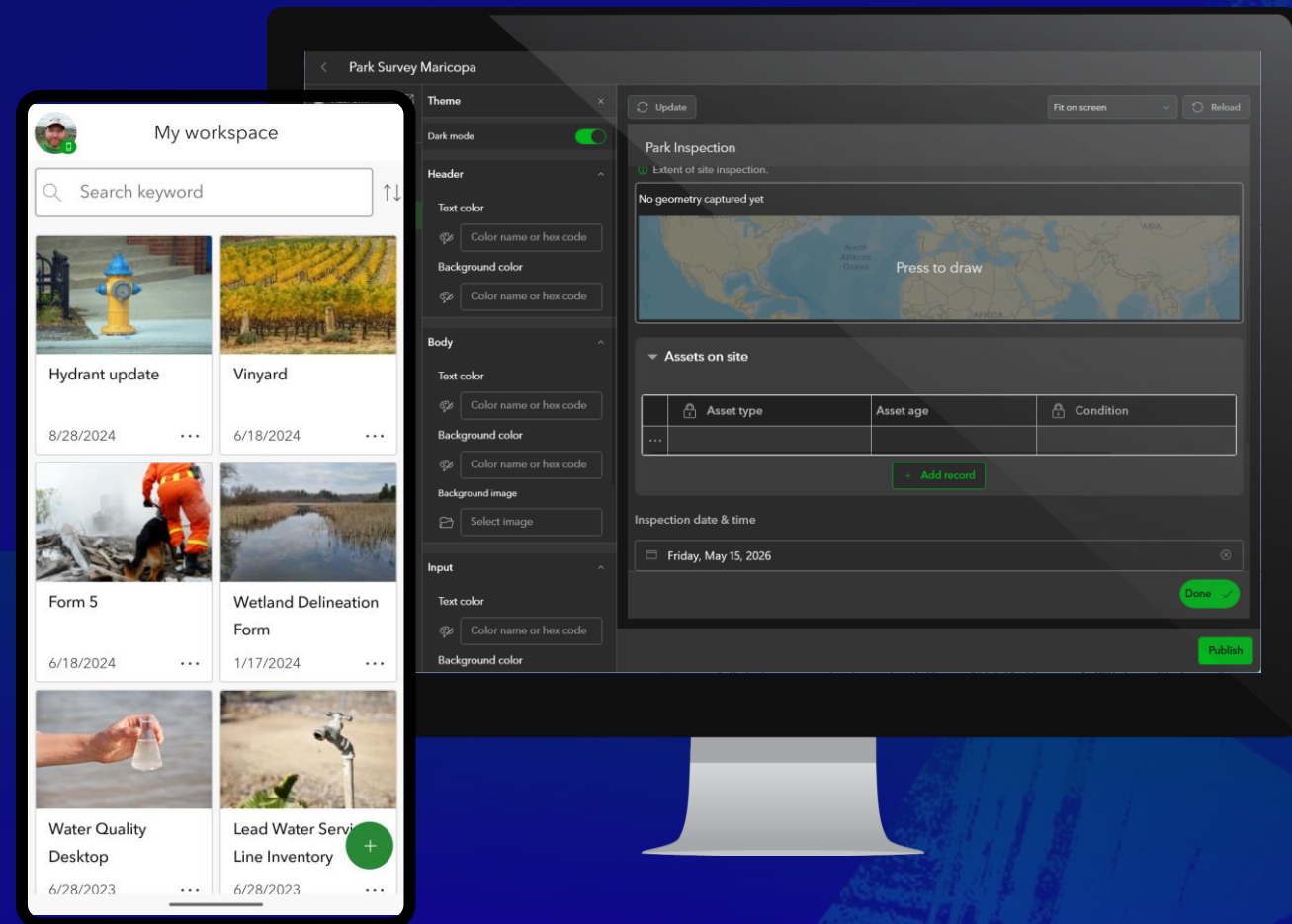


Survey123 Mobile

ArcGIS Survey123 Mobile & Survey123 Studio

Next-Generation Field App and Form Authoring

- New look, but familiar user experience
- Same form support
- New capabilities
 - Redesigned intuitive sign-in experience
 - Improved accessibility support
 - Enhanced mapping capabilities
 - New capture experiences



Stay up to date

And become a member of the community



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Celebrating America 250 with Casey Trees

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Questions?



*AI Generated



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