



ArcGIS Apps for the Field

ArcGIS Online: Tips, Tricks, and What's New

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2019 Westchester GIS User Group Meeting

**GIS
INSPIRING
WHAT'S
NEXT**



ArcGIS Apps for the Field

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An abstract 3D architectural graphic on the right side of the slide. It features several overlapping, semi-transparent planes in shades of blue, orange, and green. The planes are oriented at various angles, creating a sense of depth and perspective. Some of the planes contain white topographic contour lines, suggesting a map or terrain. The overall aesthetic is modern and technical.

**GIS
INSPIRING
WHAT'S
NEXT**

Location-aware devices

Connectivity

**THE
SCIENCE
OF
WHERE**

**Mobile
GIS**

GIS Innovation

. . . Enabling Mobile GIS

Opportunity | Needs

Practical solutions...

... for everyday workflows

Mobile GIS

Map Inventories

Call Before You Dig

Inspections

311 Call for Service

Right of Way
Inspections

Sign Inventory

Incident Report

Census Surveys

Pigging
operations

Damage Assessments

Leak surveys

Noxious Weed Mapping

SCAT survey

GCP Collection

Map Change
Requests

Streetlight inventory

Meter Inspections

Surveys

Retroreflectivity
Inspections

Debris Reporting

Tree Management

Hydrant Inspections

Permit Inspections

Search & Rescue

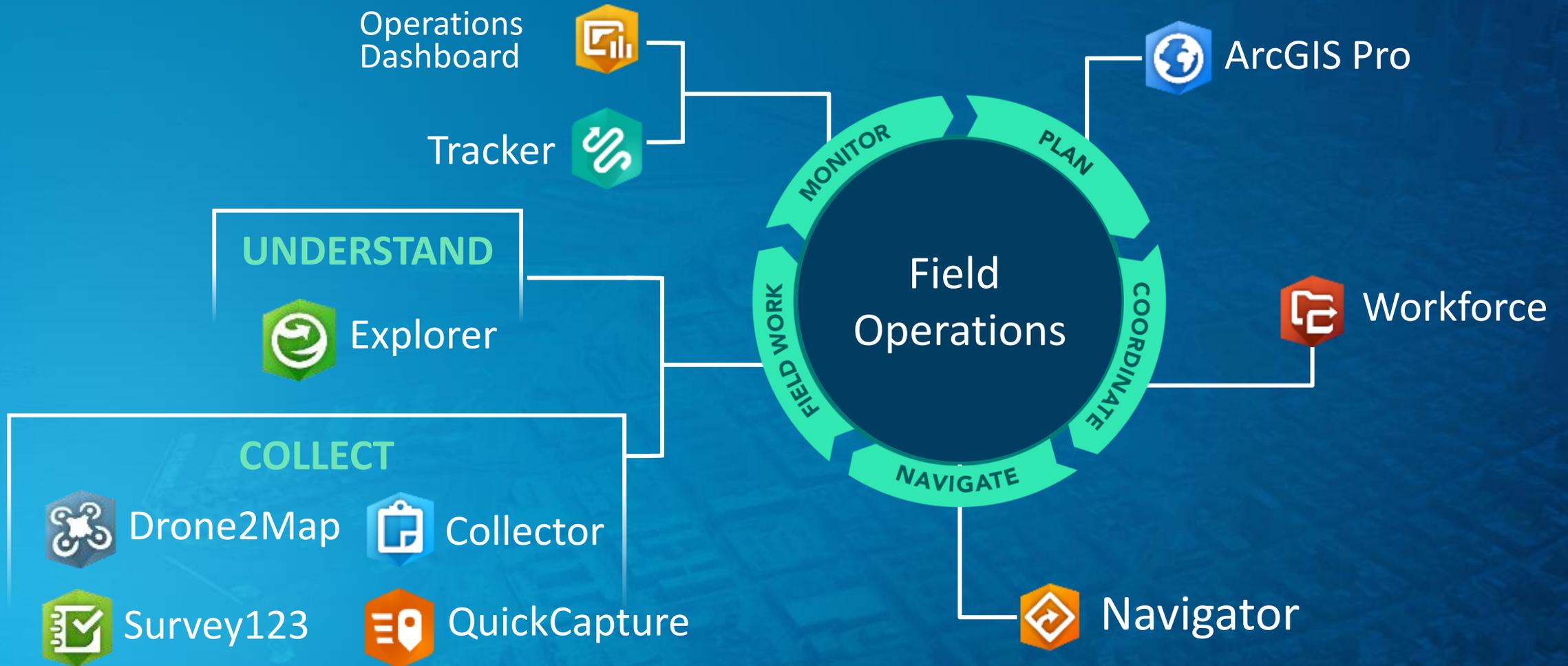
ADA Compliance
Inspection

Retroreflectivity
Inspections

Aerial
Inspections

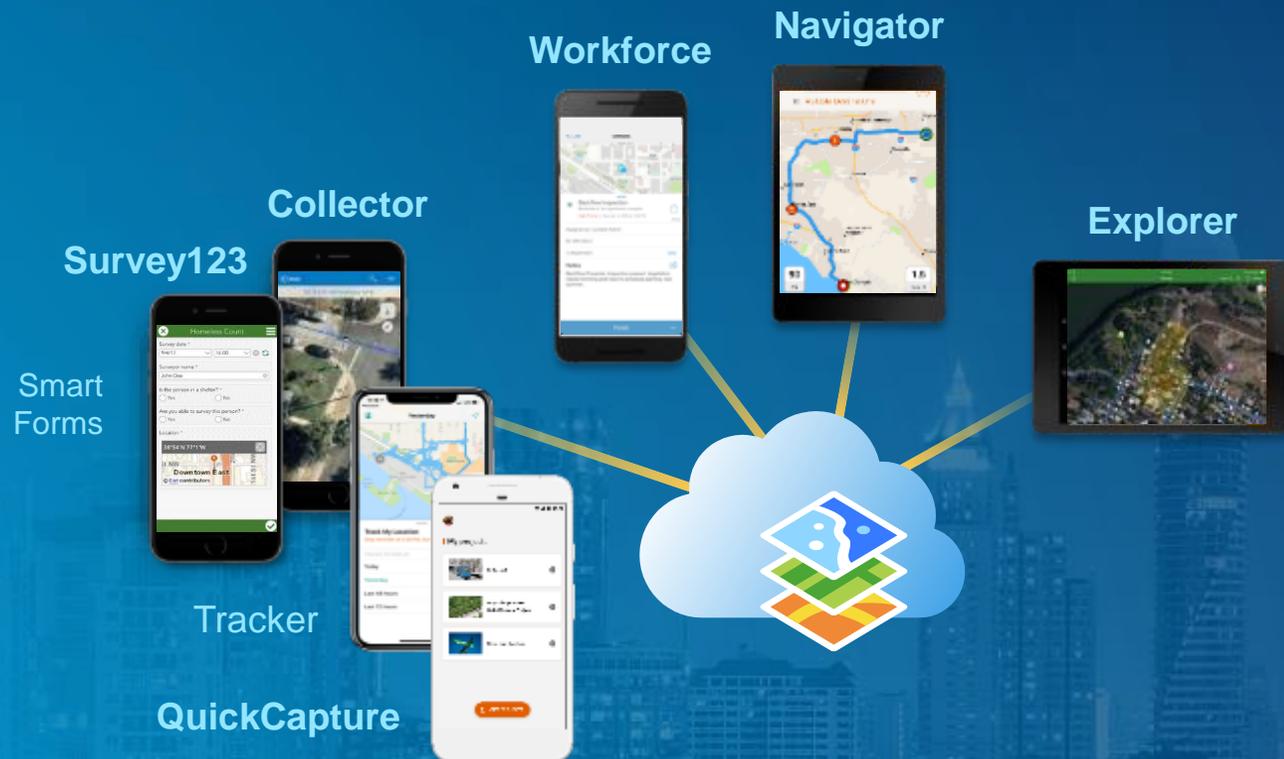
... Improving the way people work

Field Operations with ArcGIS



ArcGIS | Integrated Mobile Apps for the Field

-  Tracker
-  Workforce
-  Collector
-  Navigator
-  Explorer
-  Survey123
-  QuickCapture



... Empowering Mobile Users

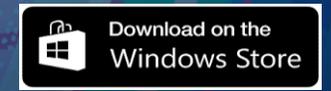
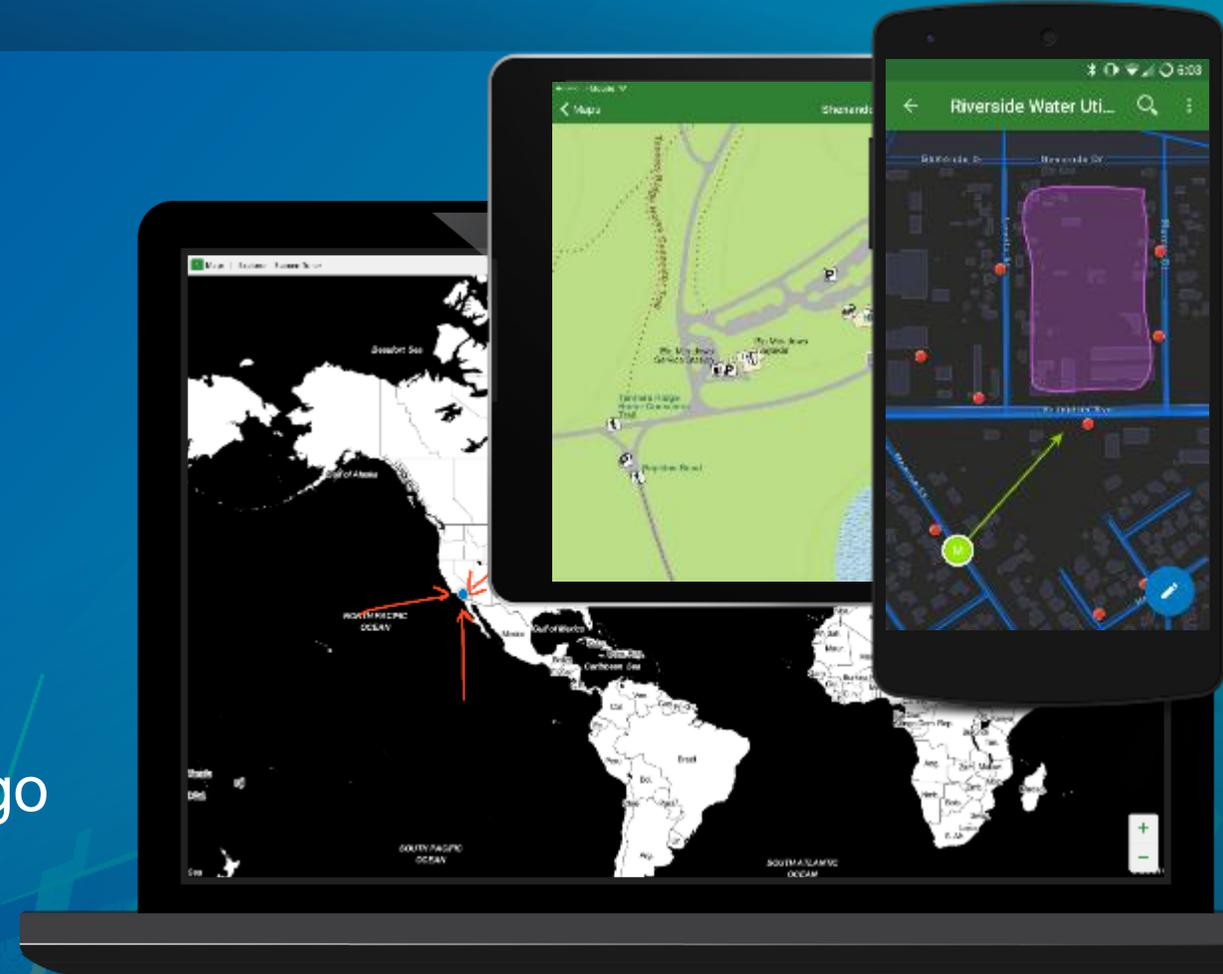


Explorer for ArcGIS | Maps, wherever you are

View your maps anywhere

Easily find field assets

Create and share notes on-the-go





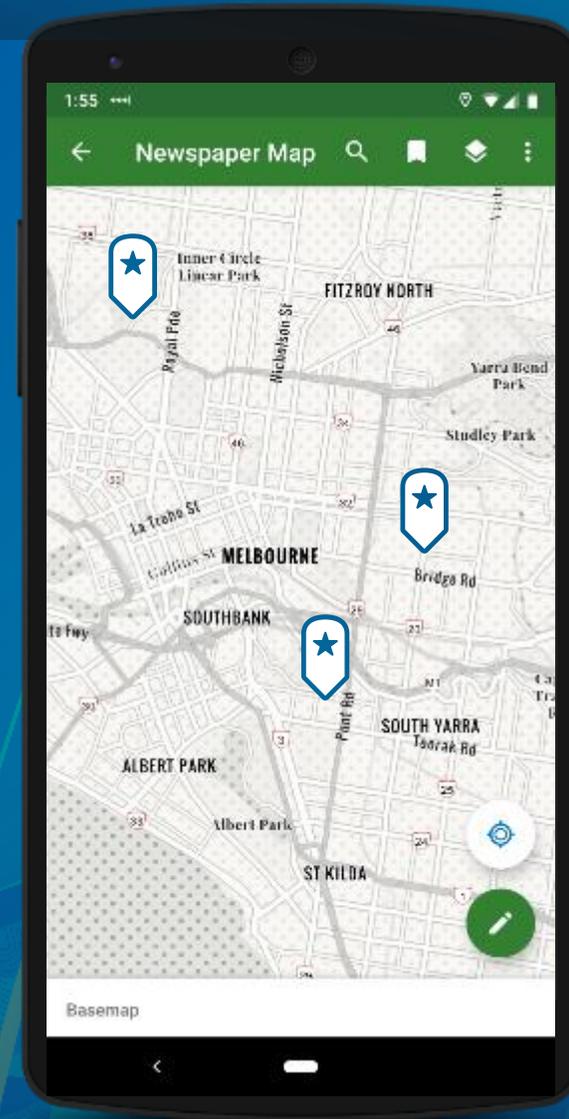
Explorer for ArcGIS | Live and offline maps



web maps



mobile map packages





ArcGIS Pro Publisher Extension

Mobile offline maps for everyone

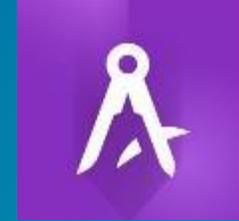
Create offline maps for everyone

View in Explorer or your branded app

Available in ArcGIS Pro



Explorer
for ArcGIS



Your branded
AppStudio for ArcGIS app



Mobile
Map Package
(MMPK)



ArcGIS Pro





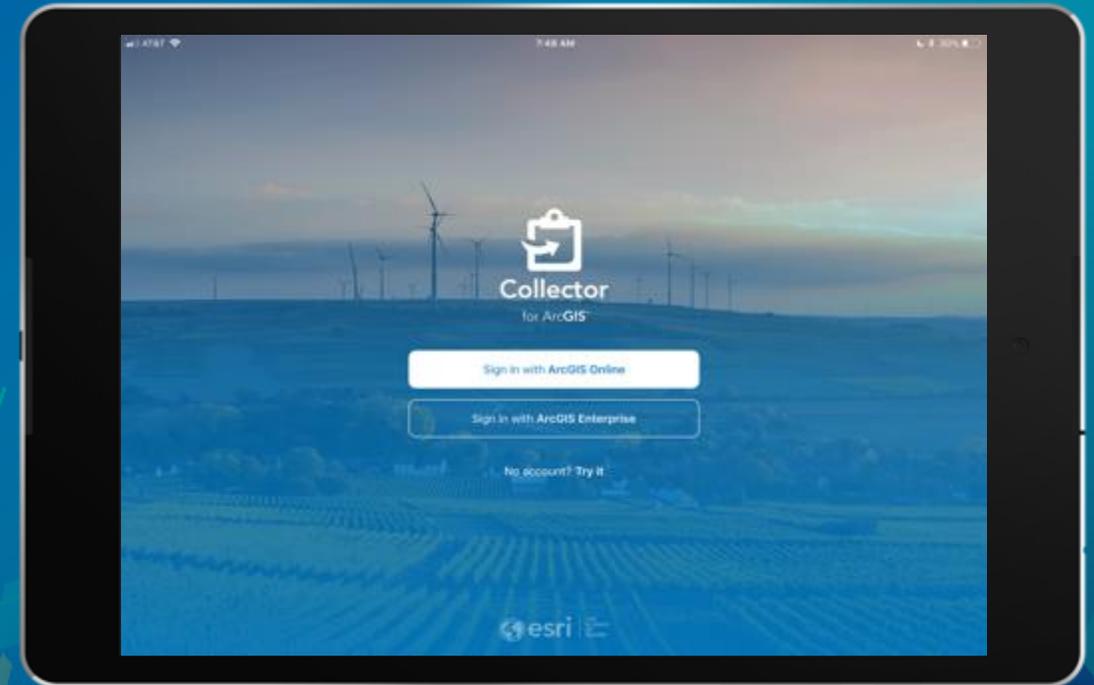
Collector for ArcGIS

Accurate data collection made easy

Map-centric data collection

Works online and offline

High data accuracy





Collector for ArcGIS

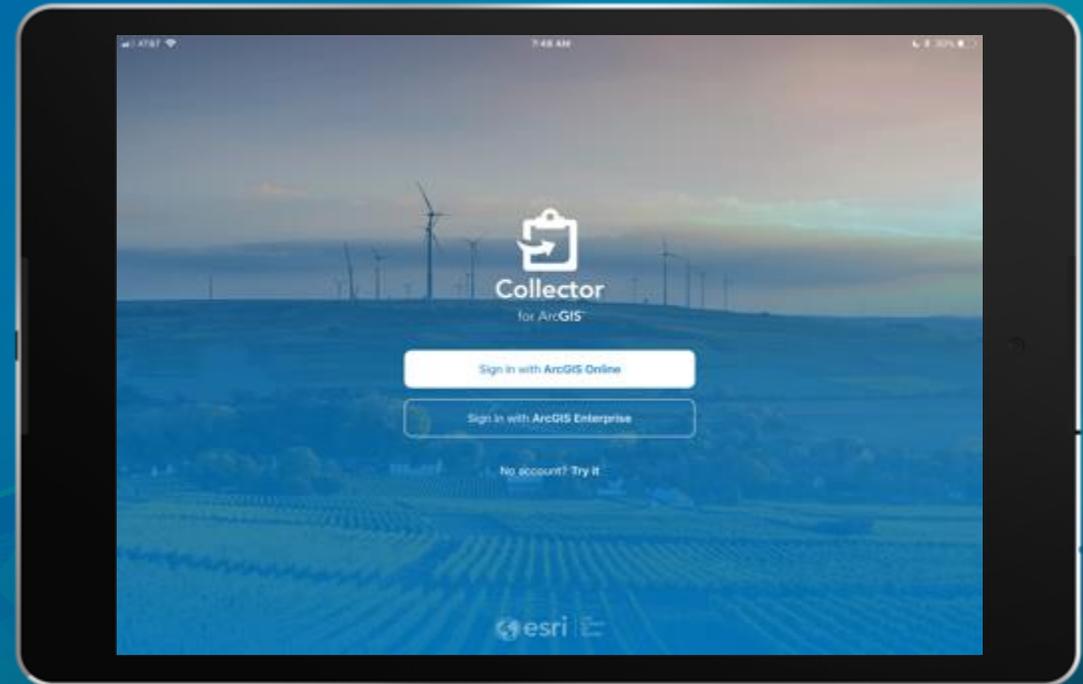
Accurate data collection made easy

- **Collector App**

- iOS Released in December
- Side-by-side with Classic

- **Other Platforms**

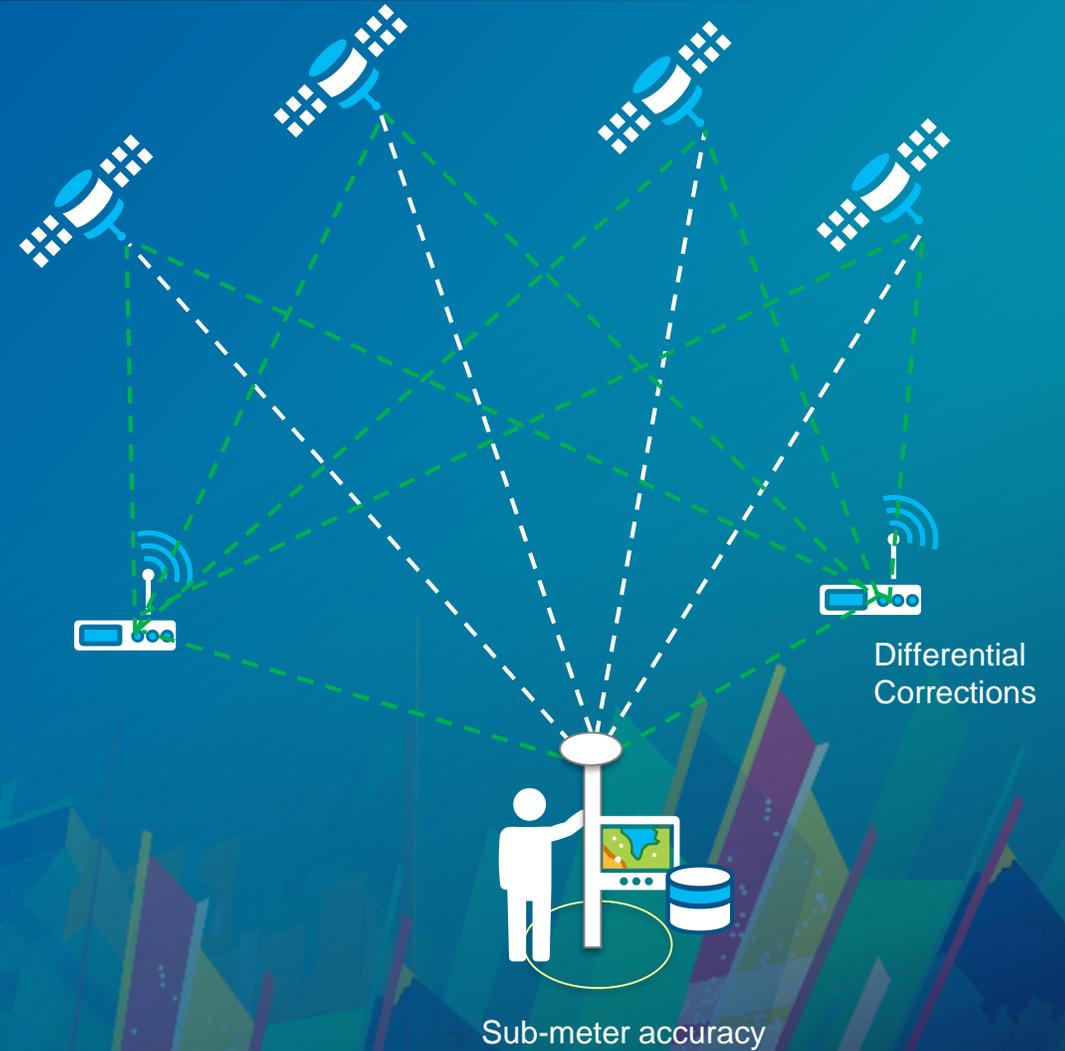
- Android: in beta
- Windows 10: Development to start later in 2019





Collector for ArcGIS

Integrates with high accuracy GNSS receivers



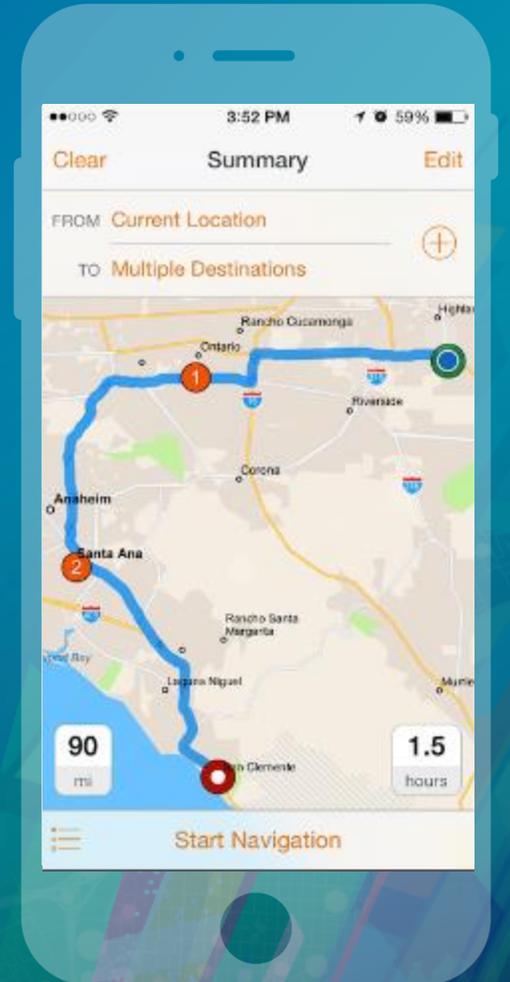


Navigator for ArcGIS | Driving directions, your way.

Turn by turn driving directions

Find assets and navigate to them while **offline**

Use **your own** maps, asset inventory, and custom roads

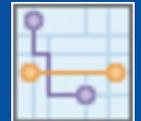




Navigator for ArcGIS | On the fly and pre-planned routes.



Closest Facility



Route



VRP



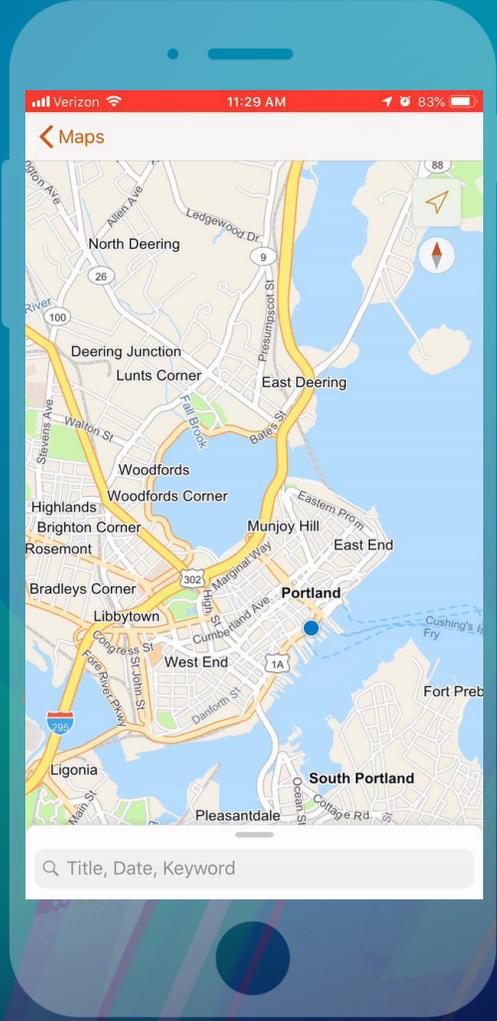
API's & SDK's
Map Viewer
Enterprise
Desktop

Save



Enterprise or Online

Download



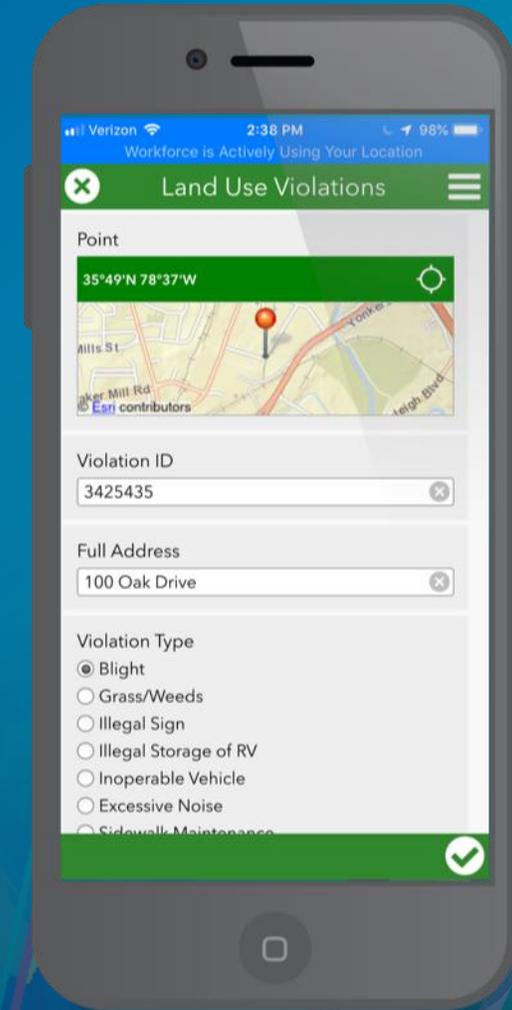


Survey123 for ArcGIS | Location-aware smart forms

Simple data collection experience

Sophisticated smart form capabilities

Web & Native / Desktop & Devices



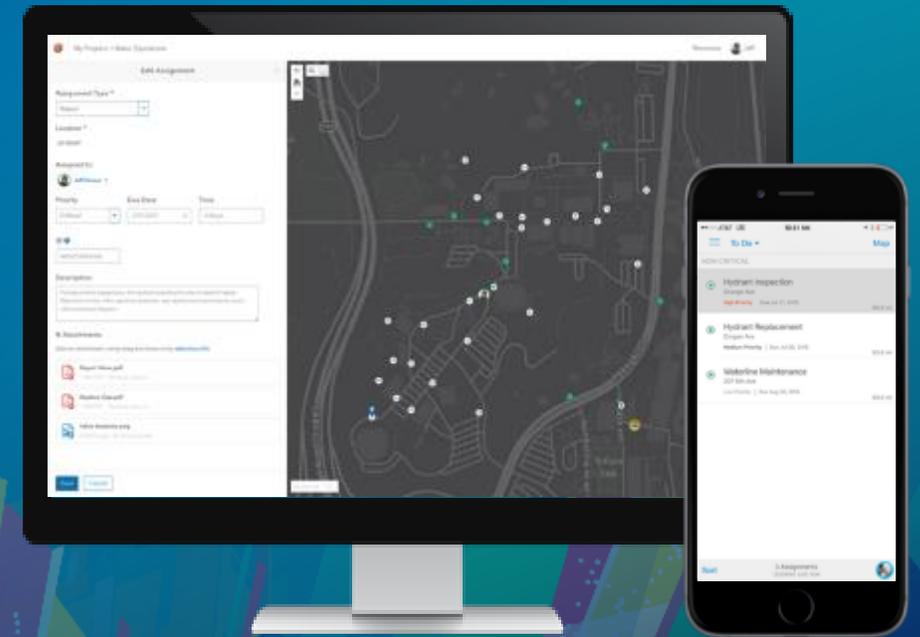


Workforce for ArcGIS | Coordinate field work

Plan and coordinate field work

Improve efficiency with location awareness

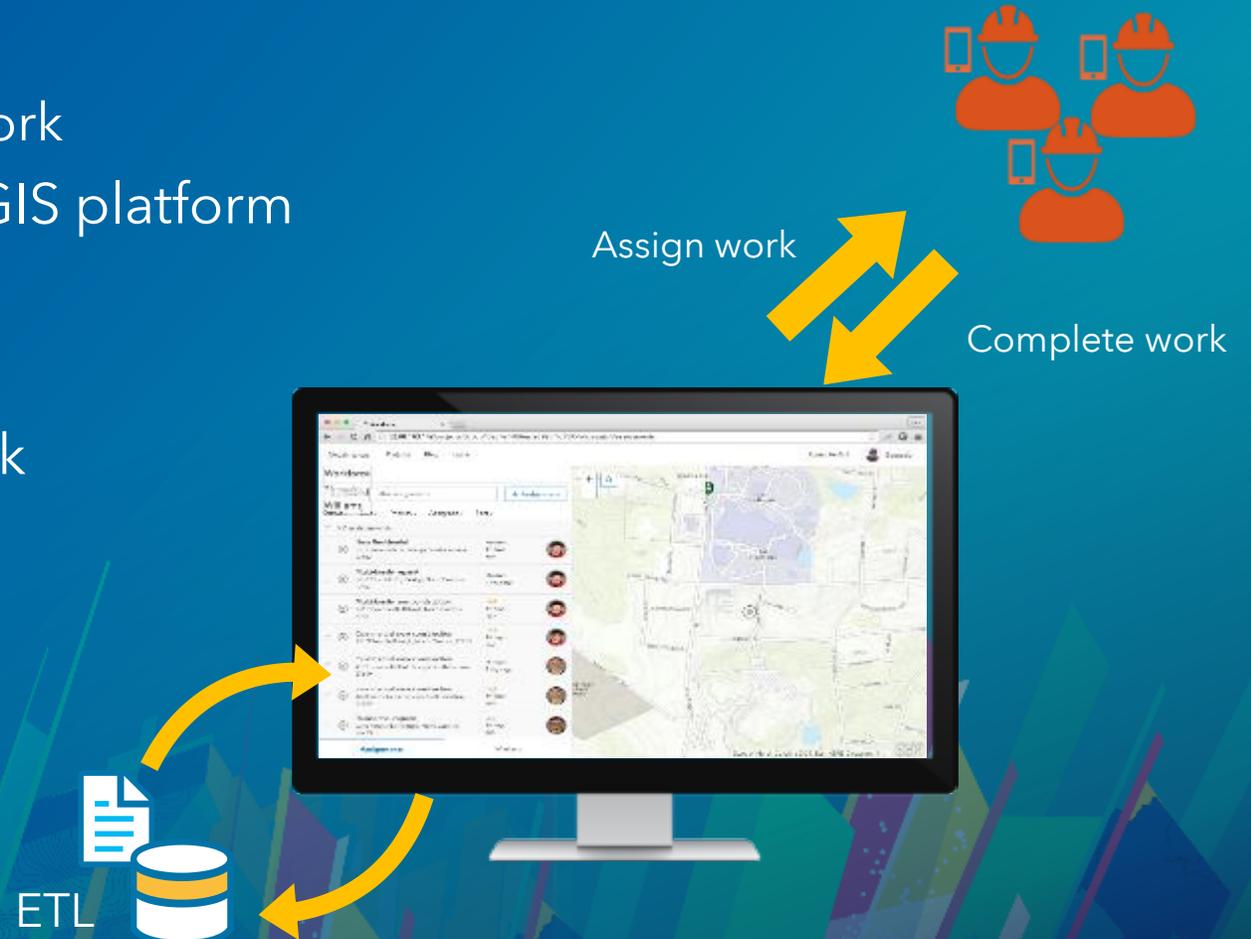
Create & Manage field assignments





Workforce for ArcGIS | Back-office

- Plan, Coordinate, Assign and Complete work
 - Fuse work management into the ArcGIS platform
 - Create, Prioritize and Assign Work
 - Manage planned work assignments
 - React and respond to unplanned work





Workforce for ArcGIS | The mobile app

- Manage To-Do list, report location and work status
- Navigate directly to your work
- Capture and update data:
 - Map: Collector for ArcGIS
 - Form: Survey123 for ArcGIS
- Complete field work



Workforce for ArcGIS | Workforce Scripts

Create Assignments From CSV

Copy Assignments To Feature Service

Export Assignments to CSV

Delete Assignments By Query

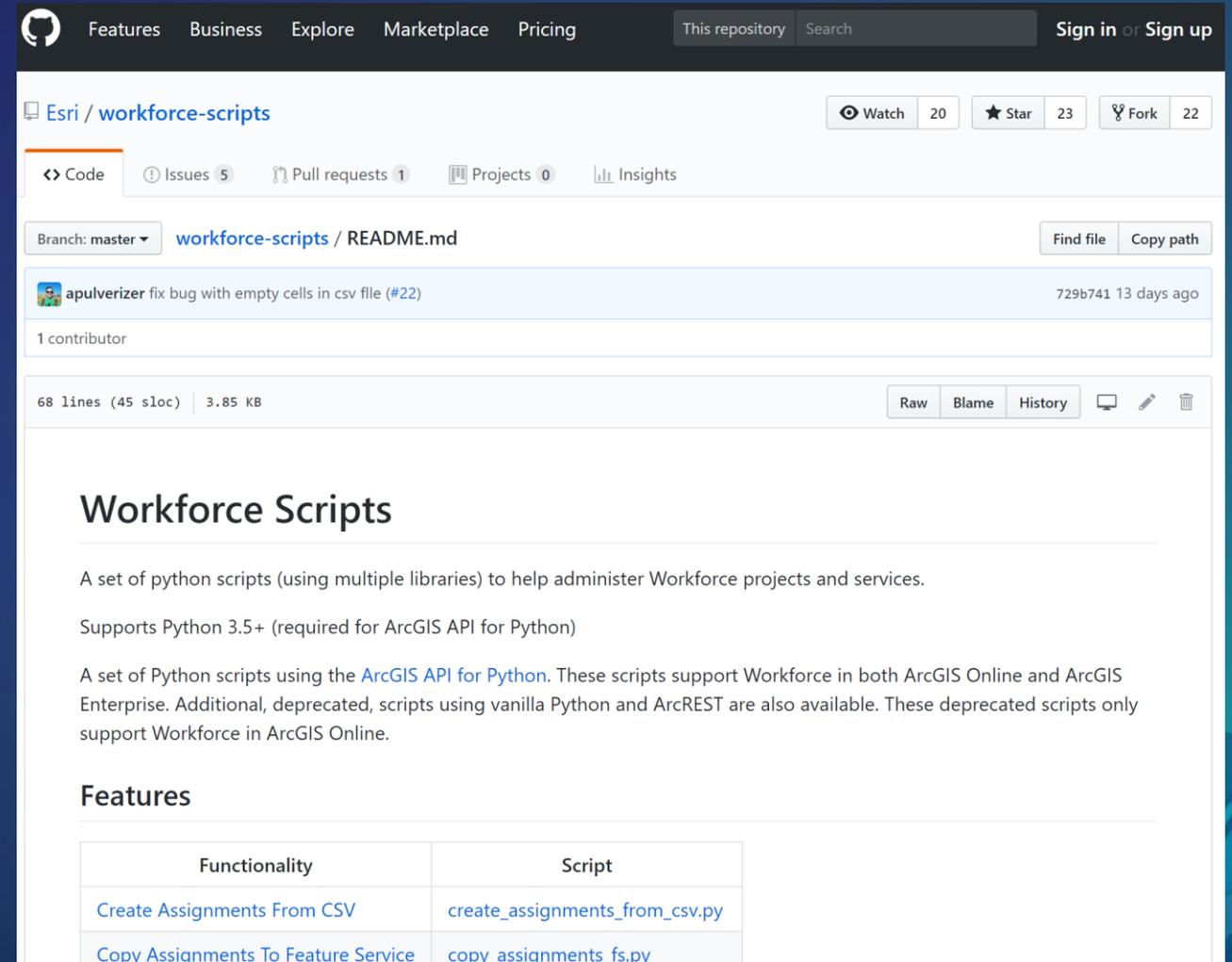
Check Assignment Completion

Import Workers

Create Assignment Types

Delete Assignment Types

Assignment Monitor



The screenshot shows the GitHub repository page for `Esri/workforce-scripts`. The repository has 20 watches, 23 stars, and 22 forks. The current view is the `README.md` file on the `master` branch. A pull request by `apulverizer` is visible, titled "fix bug with empty cells in csv file (#22)". The file statistics show 68 lines (45 sloc) and 3.85 KB. The README content includes the title "Workforce Scripts", a description of the scripts, supported Python versions, and a list of features.

Workforce Scripts

A set of python scripts (using multiple libraries) to help administer Workforce projects and services.

Supports Python 3.5+ (required for ArcGIS API for Python)

A set of Python scripts using the [ArcGIS API for Python](#). These scripts support Workforce in both ArcGIS Online and ArcGIS Enterprise. Additional, deprecated, scripts using vanilla Python and ArcREST are also available. These deprecated scripts only support Workforce in ArcGIS Online.

Features

Functionality	Script
Create Assignments From CSV	<code>create_assignments_from_csv.py</code>
Copy Assignments To Feature Service	<code>copy_assignments_fs.py</code>

<https://github.com/Esri/workforce-scripts/blob/master/README.md>

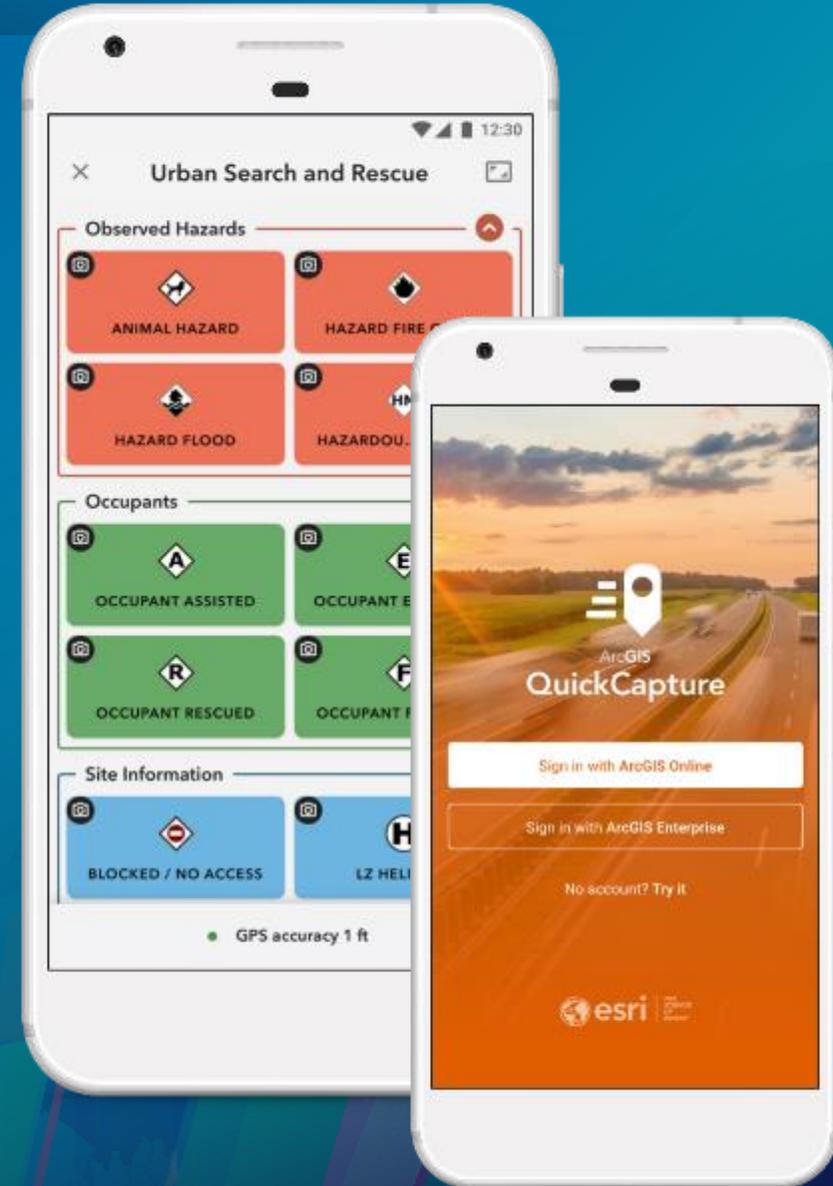


ArcGIS QuickCapture | The Rapid Data Collection app

“Big button” mobile app, simplest way to capture data

Ideal for at-speed data collection workflows

Works offline and online





ArcGIS QuickCapture | Common workflows



Aerial Surveys



At-Speed data capture



Windshield Damage Assessments



On-the-go Inspections



Rapid Incident Reports

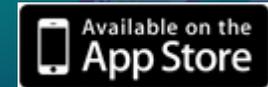
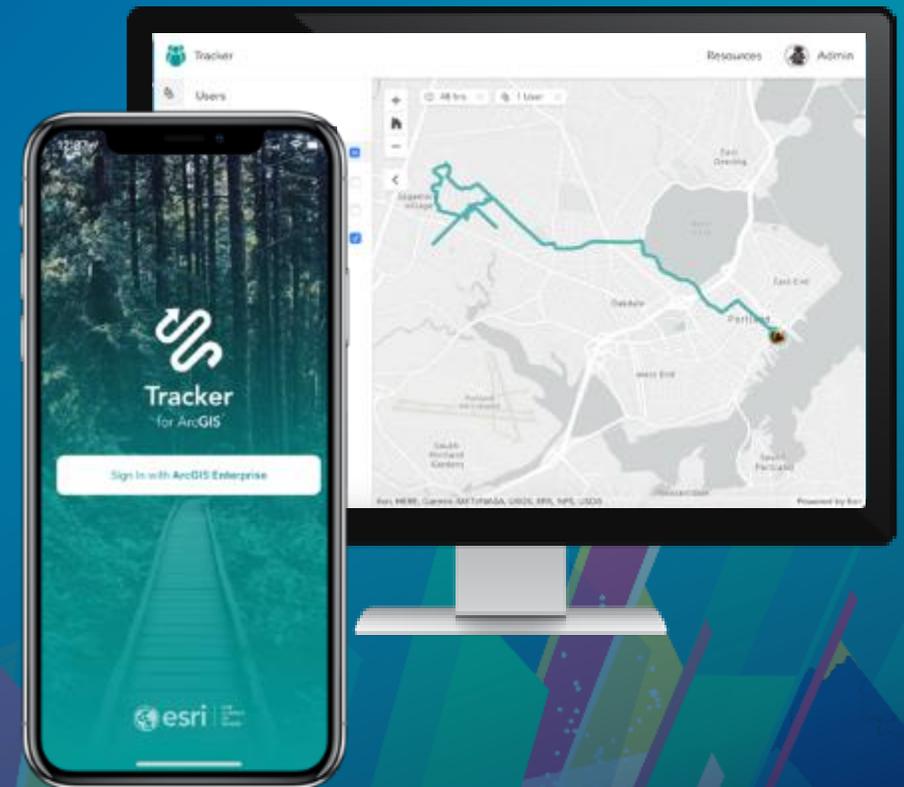


Tracker for ArcGIS | Know what happens in the field

Share your location

Know where everyone is

Own your locations





Tracker for ArcGIS | Know what happens in the field



Tracker for ArcGIS

Components



Tracker mobile app (iOS, Android)

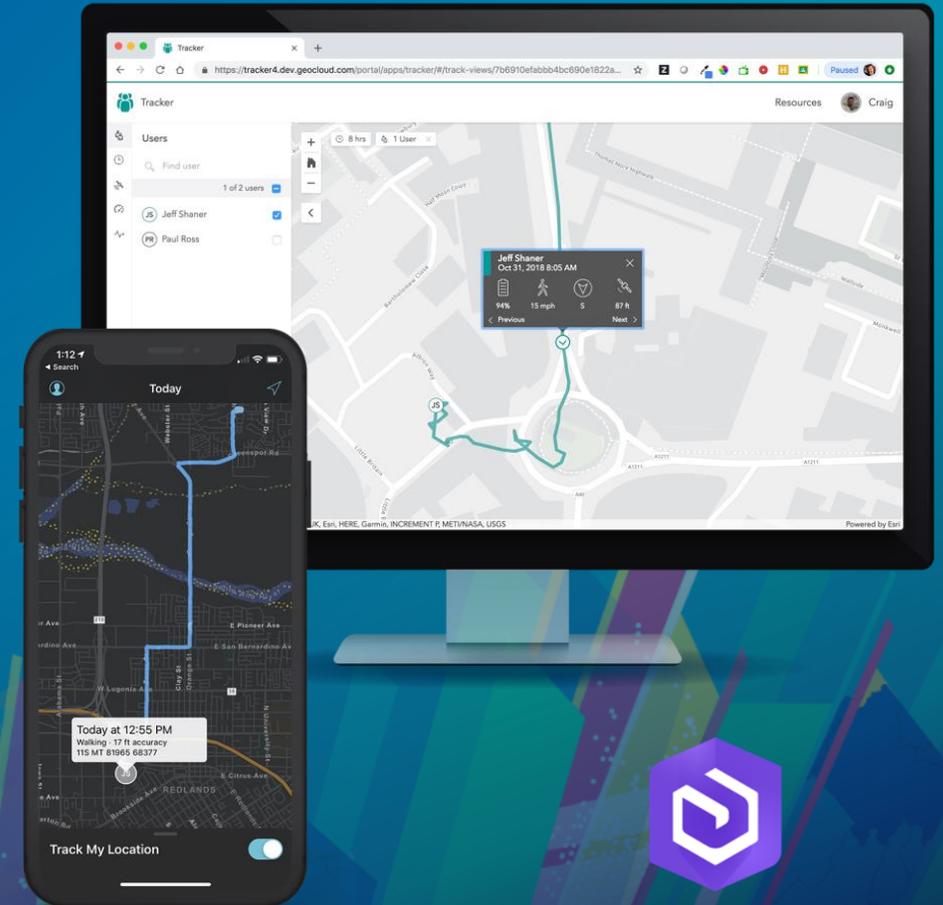
- Simple, schedule-driven tracking experience
- Supports offline use
- Premium App available with all user types
 - Requires an add-on license

Track Viewer web app

- Display and manage users and their location history
- See only the users that you have access to

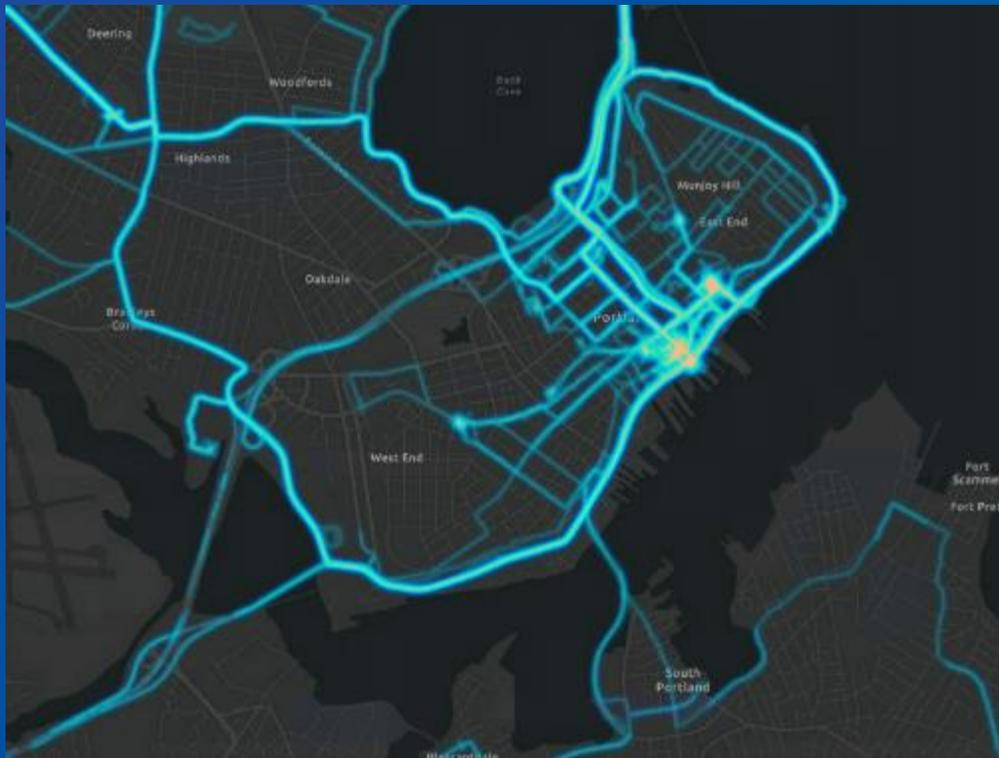
New Location Tracking capability in Enterprise

- Enable location tracking in their organization
- Single service for storing and managing location tracks
- Requires the **spatiotemporal big data store**

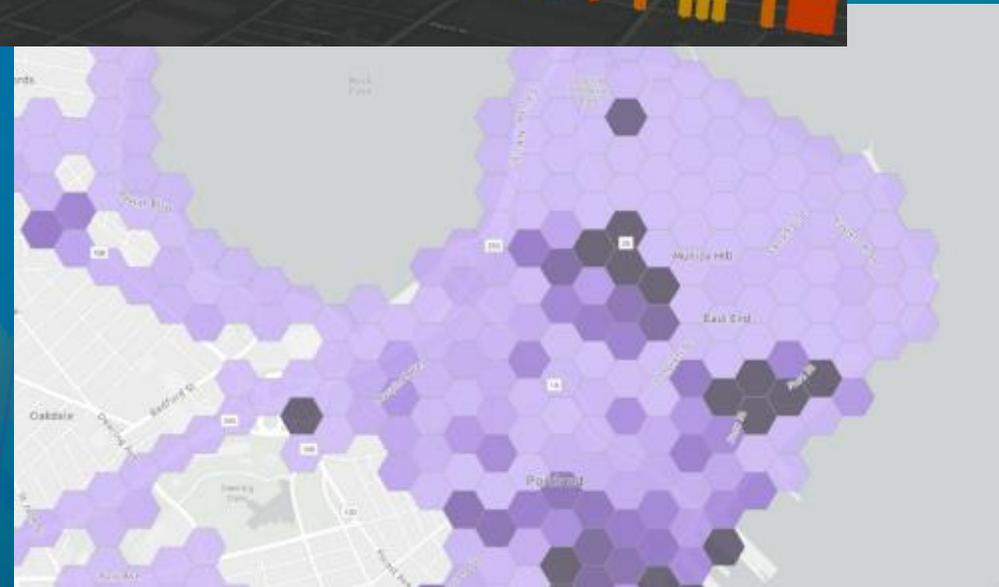
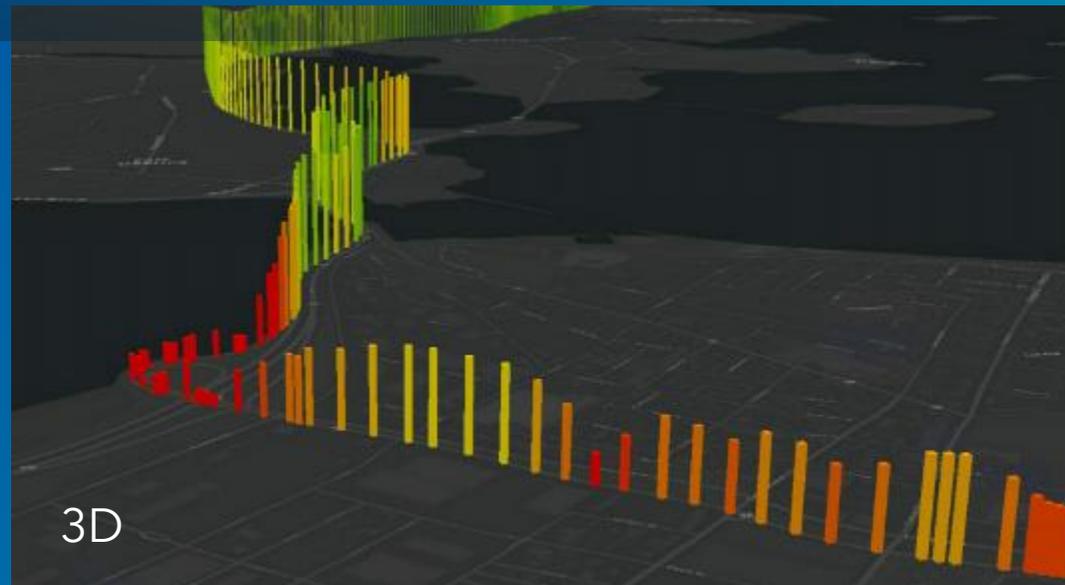




Tracker for ArcGIS | Know what happens in the field



Linear heat maps



Aggregation

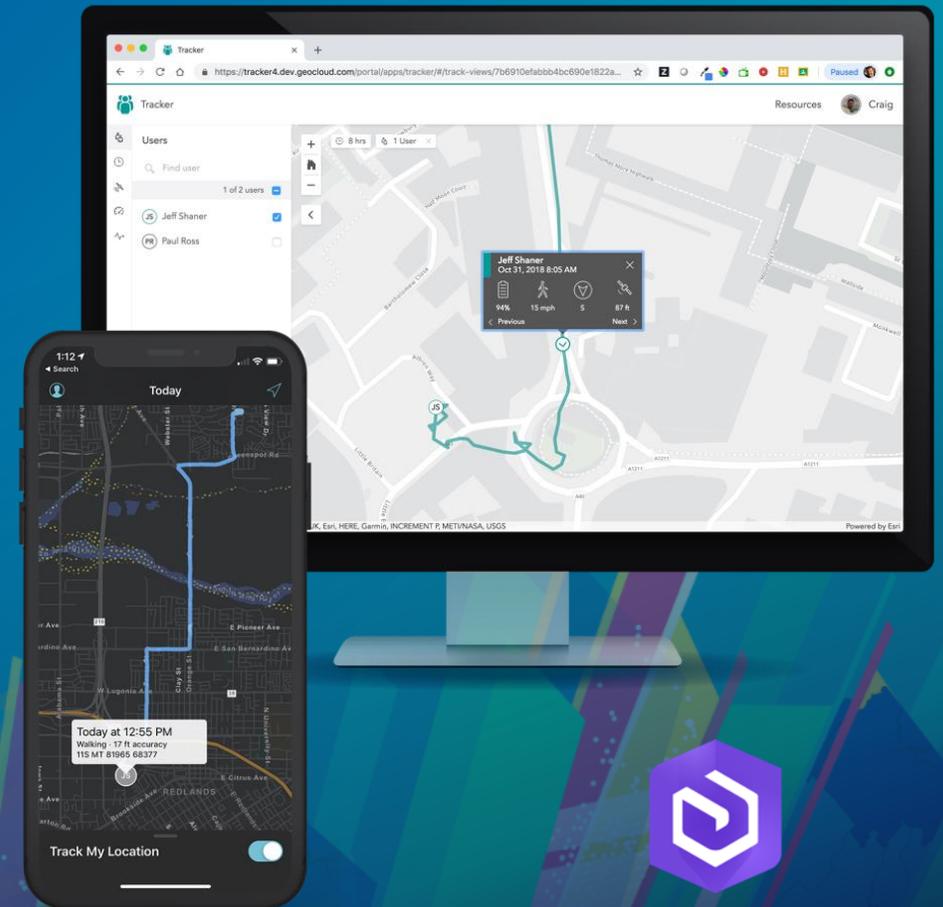
Tracker for ArcGIS

Release Plans

- ArcGIS Enterprise 10.7 release in **Q1 2019**
 - Mobile app for iOS and Android platforms
- ArcGIS Online release in **Q2 2019**
 - Mobile app updates for iOS and Android platforms

Opportunities to use Tracker prior to release:

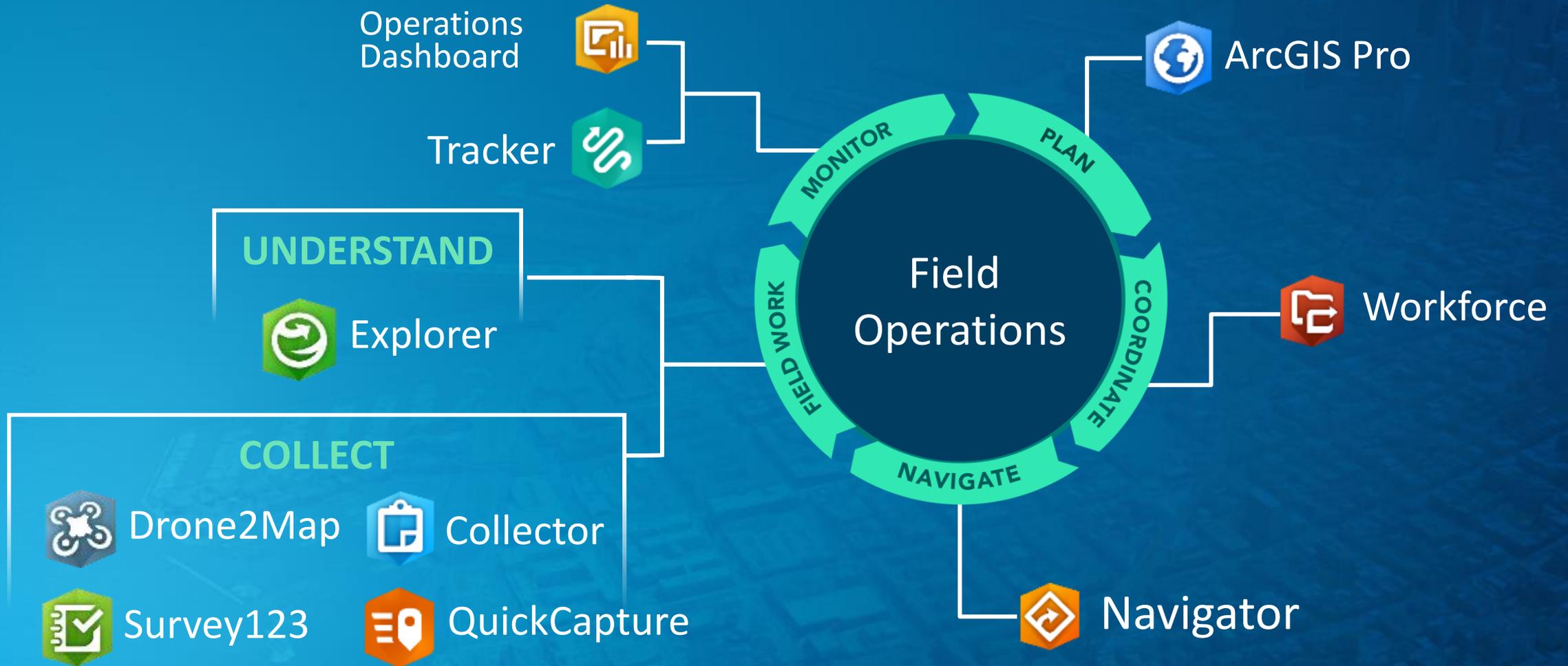
- Contact tracker4arccgis@esri.com for general inquires



ArcGIS Enterprise 10.7

Patterns

All Apps Work Together



Pairing ArcGIS Field Apps

Collect and Monitor



Third Party Integrations



Workforce Launchpad



Maps + Forms



Prepare - Field



ArcGIS User Types | Role-Based Licensing Model

Viewer



Editor



Field Worker



Creator



GIS Professional

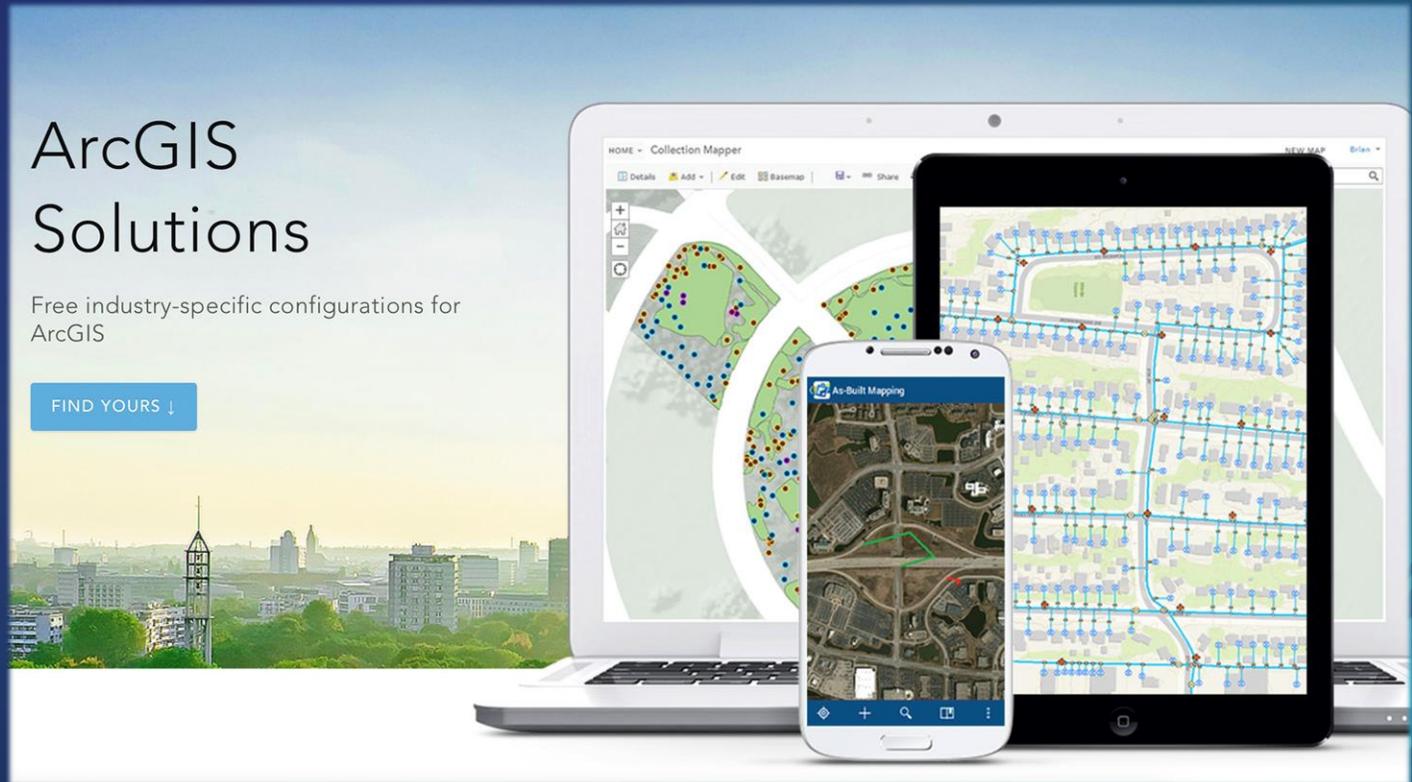


[Taking User Types to the Field Blog](#)

Now Part of ArcGIS Online and Enterprise

ArcGIS Solutions

- Quickly address challenges
- Free and Open Source
- Supported by Esri
- Updated as tech moves forward
- **Use the solutions deployment tool!!!**





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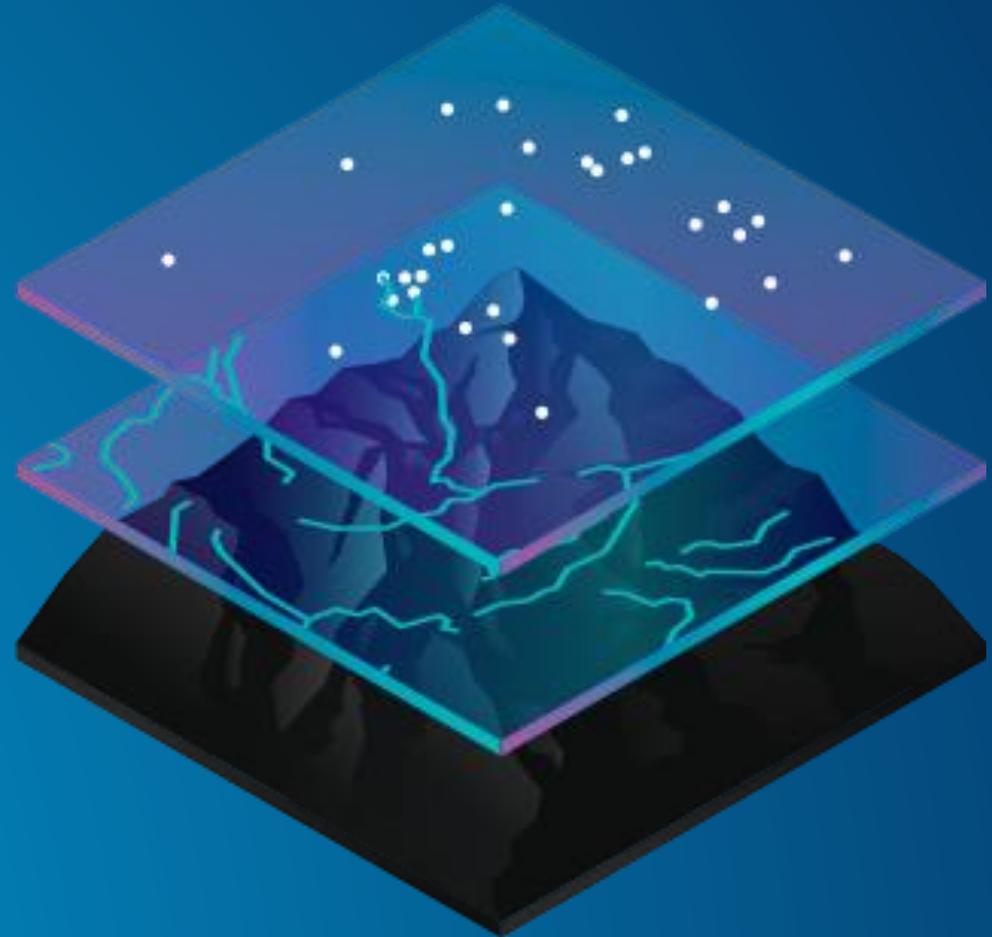
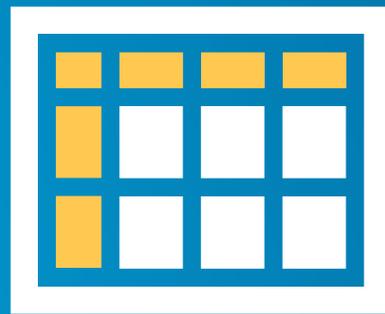
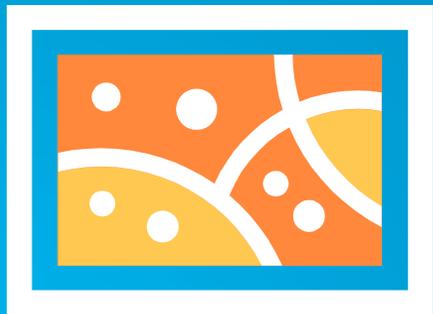
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An abstract 3D graphic on the right side of the slide, tilted at an angle. It features various colored planes (blue, orange, green, red) and lines, suggesting a 3D map or data visualization. A topographic map pattern is visible on one of the blue planes.

**GIS
INSPIRING
WHAT'S
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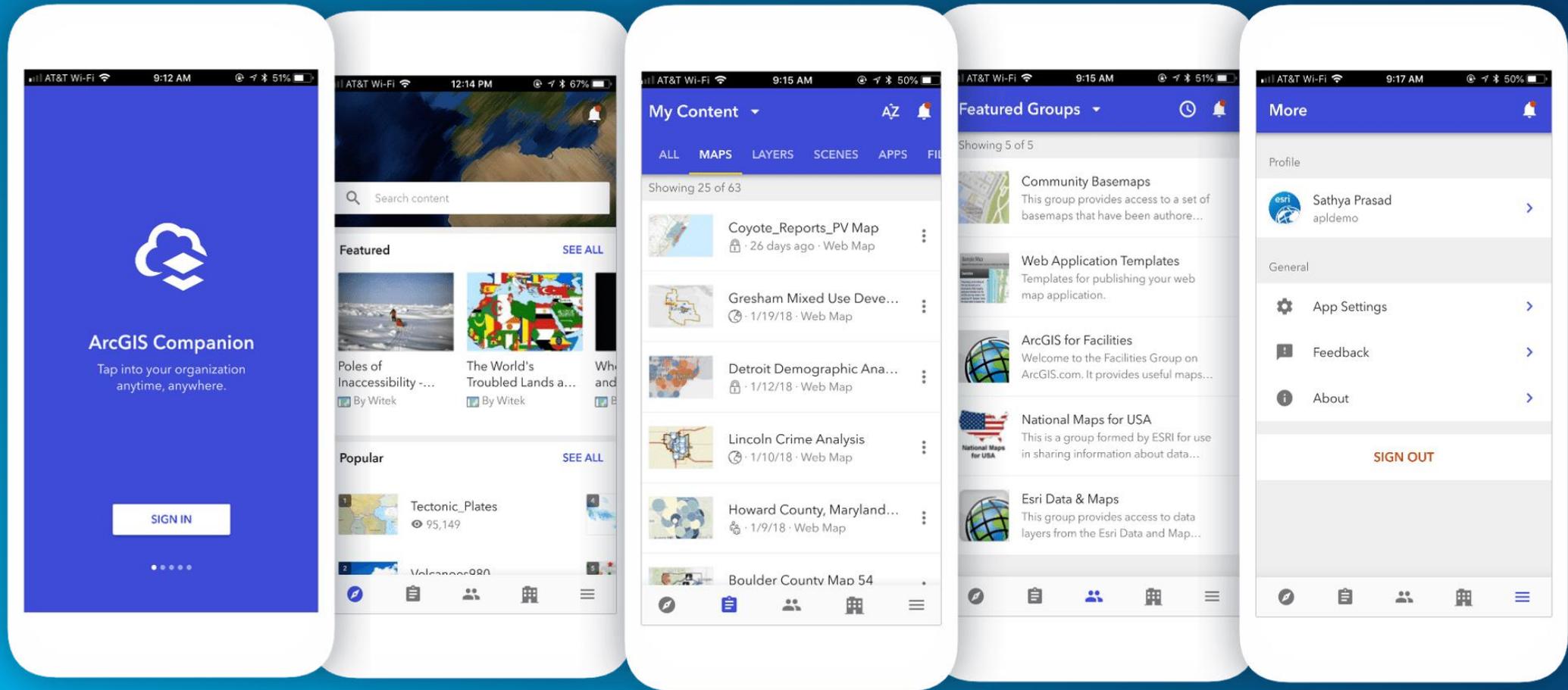
ArcGIS Online Data Management

More Capabilities for Managing Data in ArcGIS Online



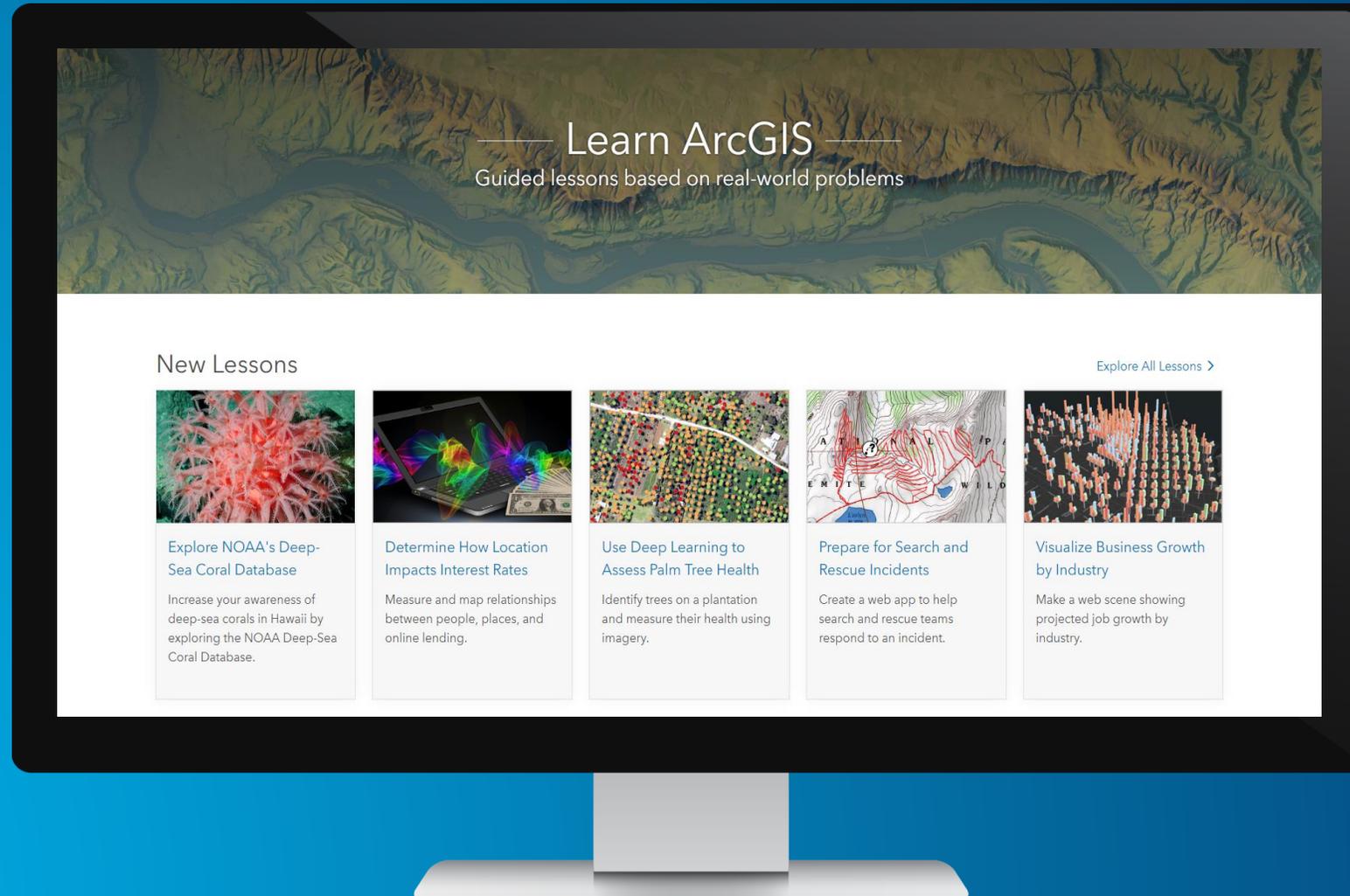
ArcGIS Companion

A New Mobile App to Complement Your Organization



Learn ArcGIS

Guided Lessons Based On Real-World Problems



Recap and Takeaways

- ArcGIS Apps for the Field
- Living Atlas
 - Wayback Imagery App
 - Esri Maps for Public Policy
 - Live Feeds and ACS Datasets
- ArcGIS Online Data Management
 - Data table
 - Create lists/domains
 - Append data
 - Hosted Feature Layer Views ([Story Map](#))
 - Editing Settings
- ArcGIS Companion App
- [Learn ArcGIS](#)

**PICK ONE THING AND
TRY IT FOR YOURSELF!**

LEARN FROM EACH OTHER!

