



Monitor and Manage a workforce with Tracker for ArcGIS

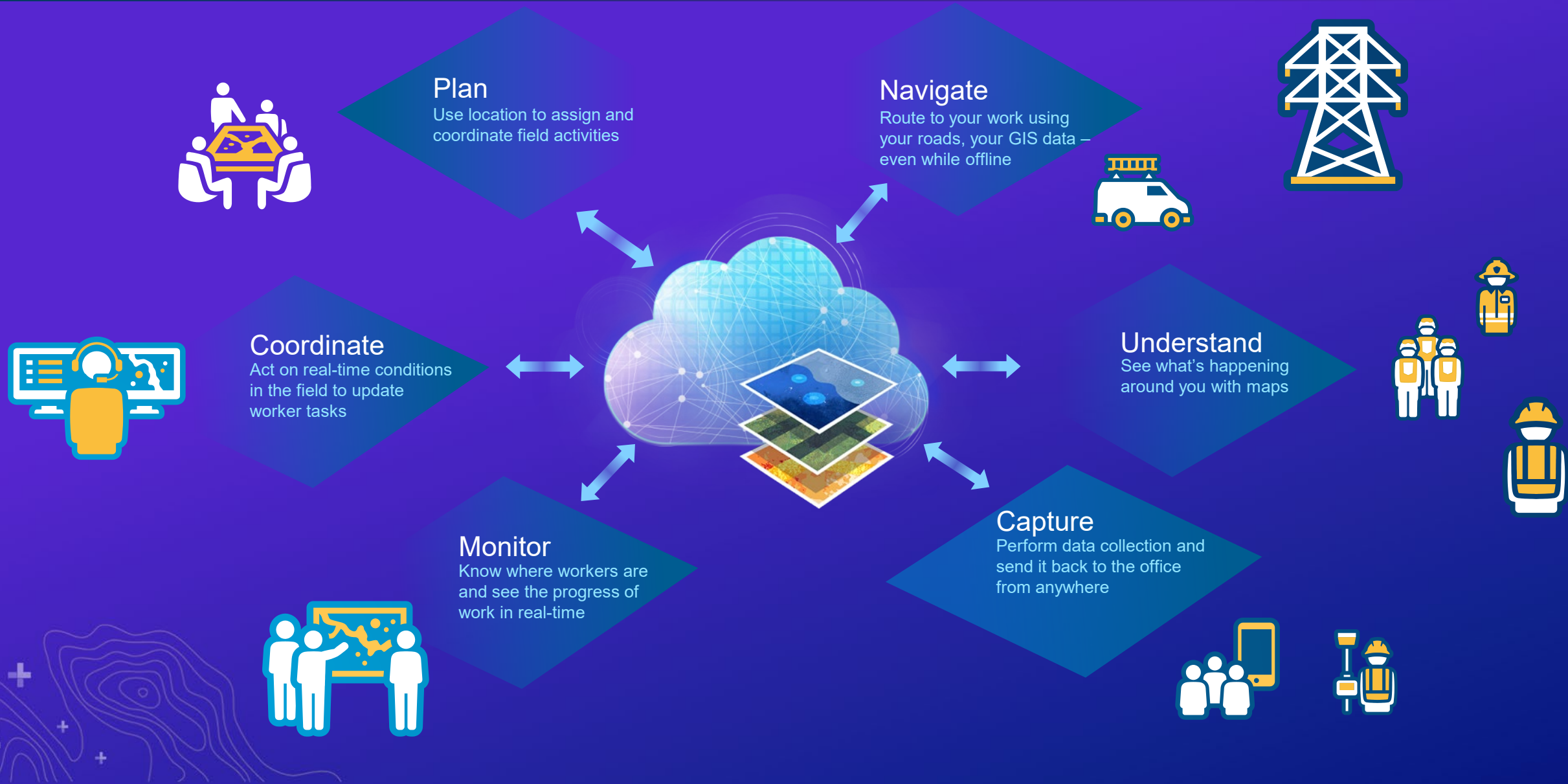
Zena Pelletier

2019 Esri Gulf Coast User Conference



Field Operations

Location-enable all phases of field work



Field Operations

Location-enable all phases of field work



Licensing and pricing

Key apps are included with **Field Workers, Creators and GIS Professionals**
Optional add-on for **Editor** user types (available for purchase through the Esri Store)



Viewer
(not applicable)



Editor
(add-on)



Field Worker
(included)



Creator
(included)



GIS Professional
(included)



Field Operations | How can you enable Field Operations?

Field Worker User Type



Comes with Workforce, Collector, Survey123,
QuickCapture and Explorer



Add premium apps as needed (all User Types)



Navigator



Tracker

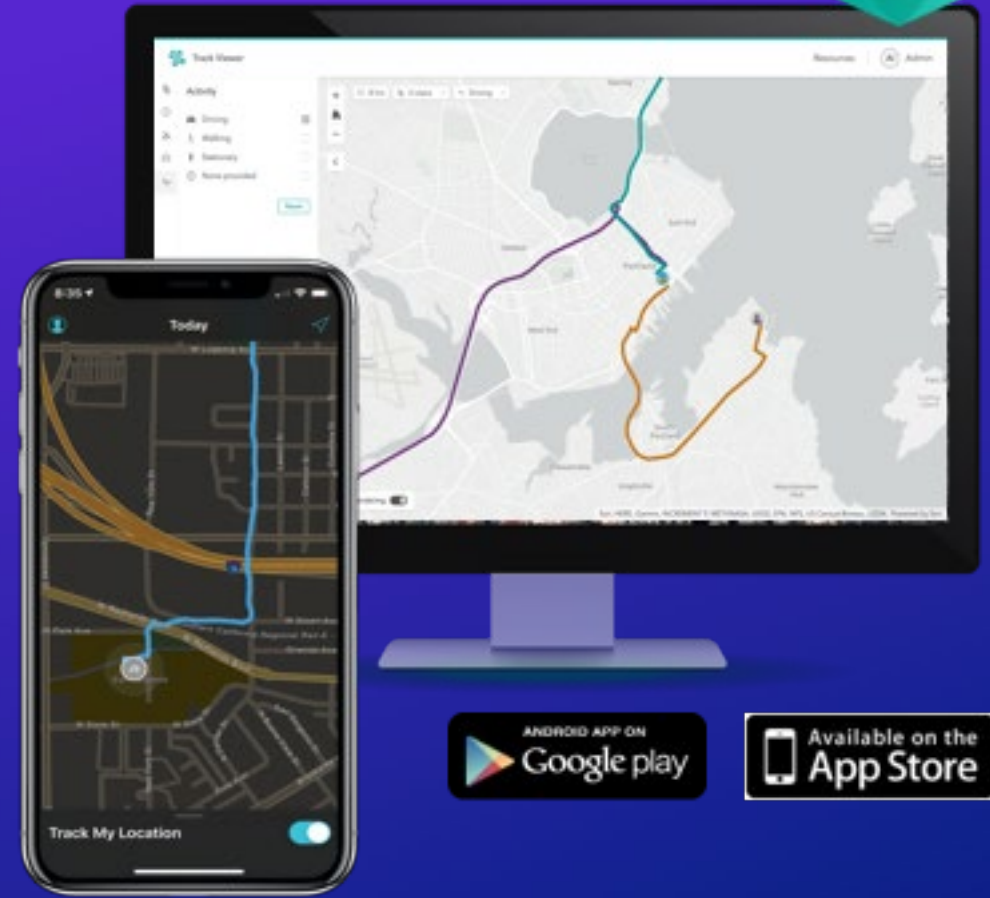
Tracker for ArcGIS

Know what happens In the field

Share your location

Know where everyone is

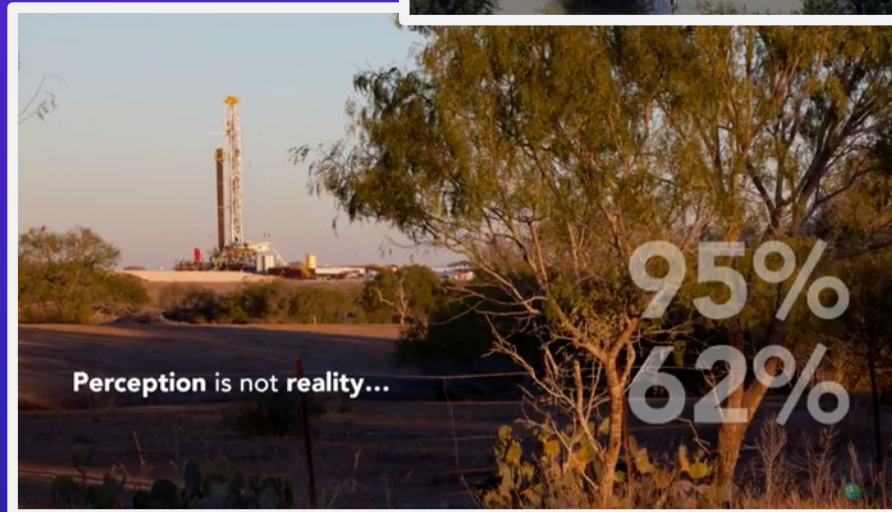
Detect Patterns



Tracker for ArcGIS

Use cases

- Situational Awareness
- "Near real-time" assessments
- Proof of work
- Level of service



Tracker for ArcGIS

Key Components

Tracker Mobile app (iOS, Android)

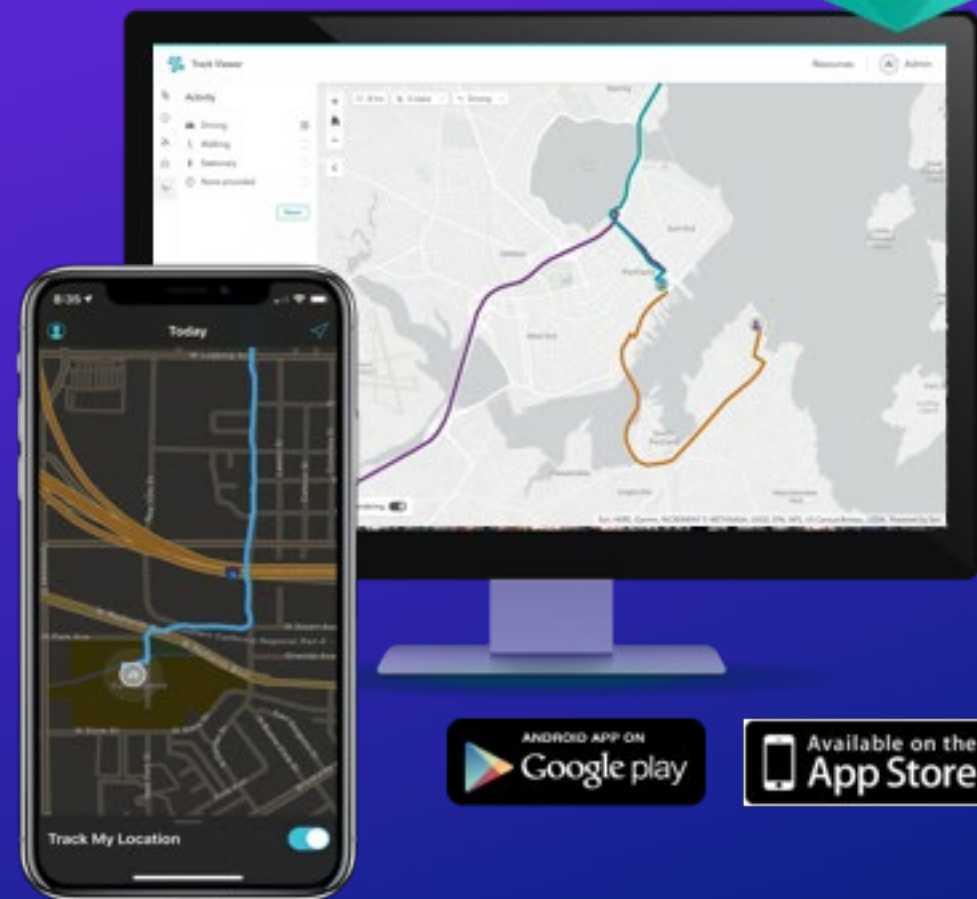
- Simple, schedule-driven tracking experience
- Supports offline use
- Optimized for low battery consumption
- Requires an premium add-on license

Track Viewer Web app

- Display and manage users and their location history
- See only the users that you have access to (Feature Service views, OBAC)

New Organizational Capability

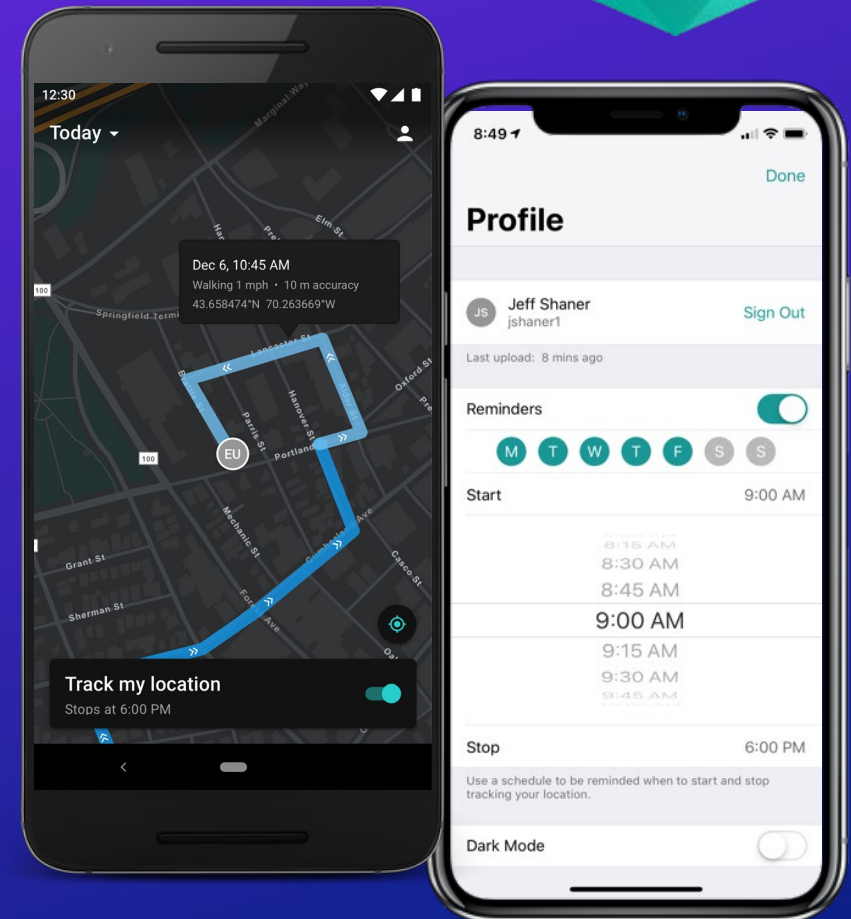
- Enable location tracking in their organization
- Single service for storing and managing location tracks
- Requires the **spatiotemporal big data store**



Tracker for ArcGIS

Mobile app

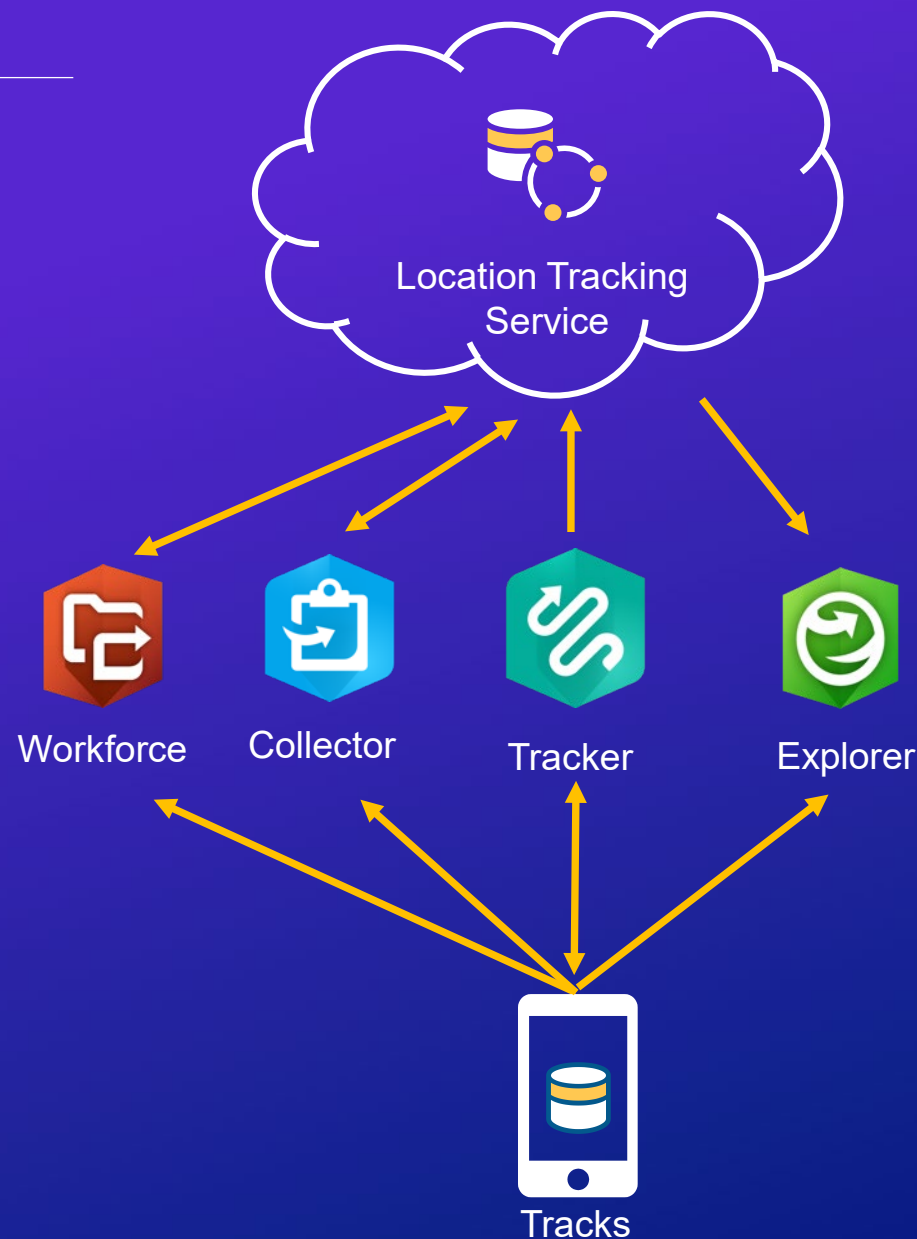
- **Mobile user in control**
 - Turns on/off tracking
 - Set reminders/schedule to start or stop tracking
- **Collect Tracks**
 - Tracks are collected using movement with core location and motion APIs
- **Tracks are uploaded every**
 - 10 mins (60 secs if device is being charged and battery is > 20%)
- **LKL (Last known location) are uploaded every**
 - 60 seconds but configurable to 30 seconds
- **Supports offline use**
 - Tracks stored locally if connectivity is lost
- **Licensing**
 - Premium app that works with Viewer+ user type



Tracker for ArcGIS

Mobile app

- Viewing Tracks on device
 - Tracks displayed as lines with direction
 - Tap on tracks to see details
 - View up to last 72 hours
- Tracker app writes tracks
 - Other ArcGIS Field Apps read tracks
- 3rd Party apps consume tracking service



TRACK VIEWS



Track Viewer Web App

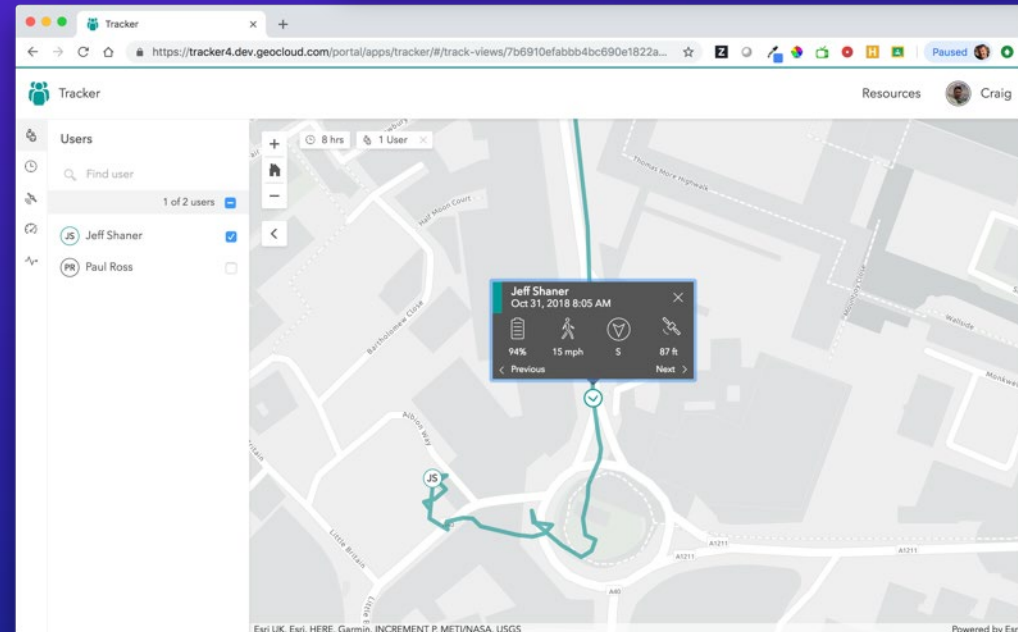
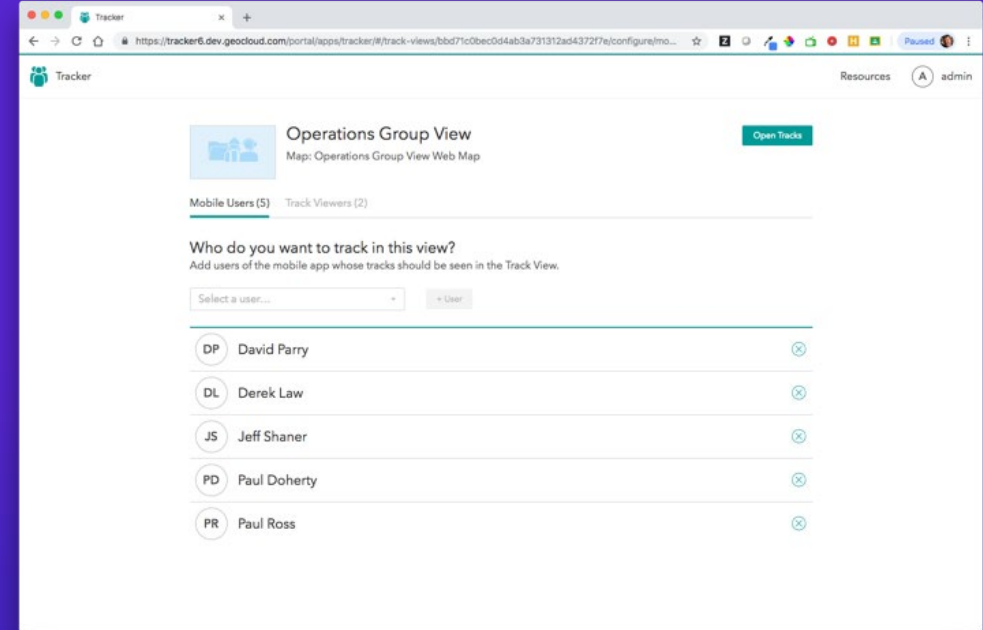
Manage in the field

Administrators

- Create track views

Supervisors

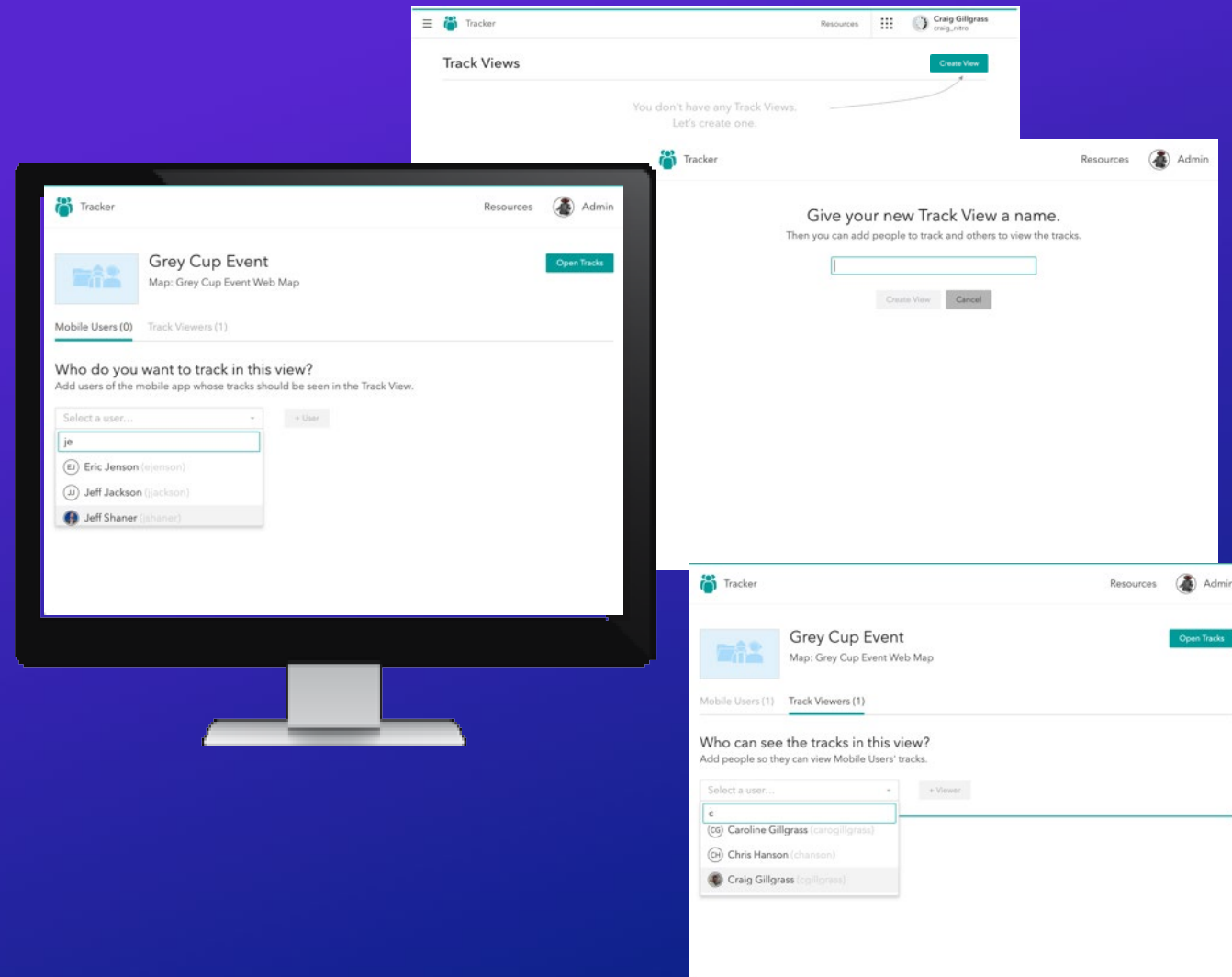
- Visualize and interrogate location tracks



Tracker for ArcGIS

Creating Track Views

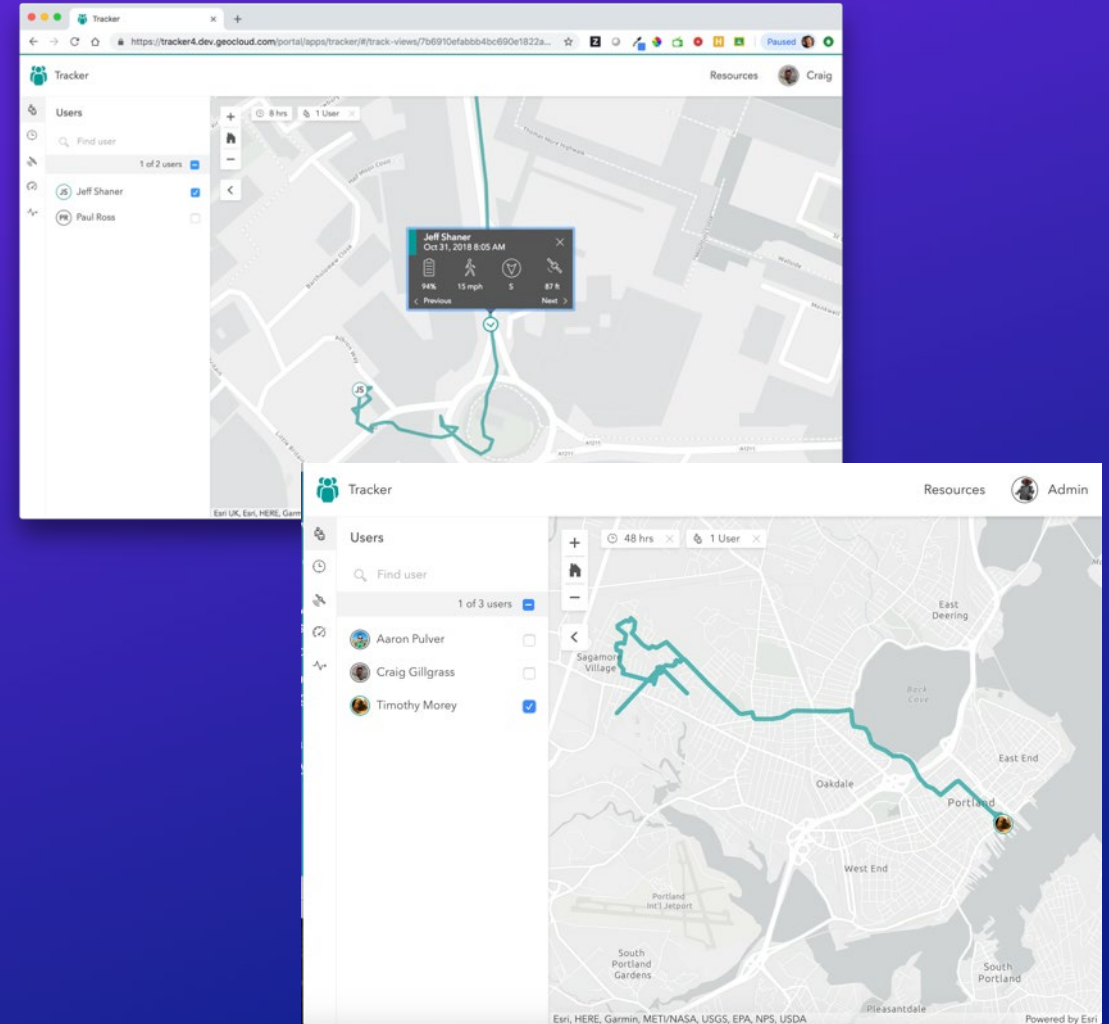
- Track Views
 - Can create multiple Track Views
 - New Group with Track Name
 - Feature Service View shared in group:
 - LKL layer
 - Tracks layer
 - **Must be an Administrator**
- Mobile Users
 - Users being tracked
 - Must have the Tracker add-on license
- Track Viewers
 - Users that view tracks
 - **Must have the View Tracks privilege**



Tracker for ArcGIS

Using Track Views

- Supervisors can open the Track View to display the tracks of users
 - Default displays the last 8 hrs
 - Tap on tracks to view details
 - Highlight individual user tracks
- Options that filter track data
 - Timespan
 - Accuracy
- Options that highlight track data
 - User list
 - Speed
 - Activity



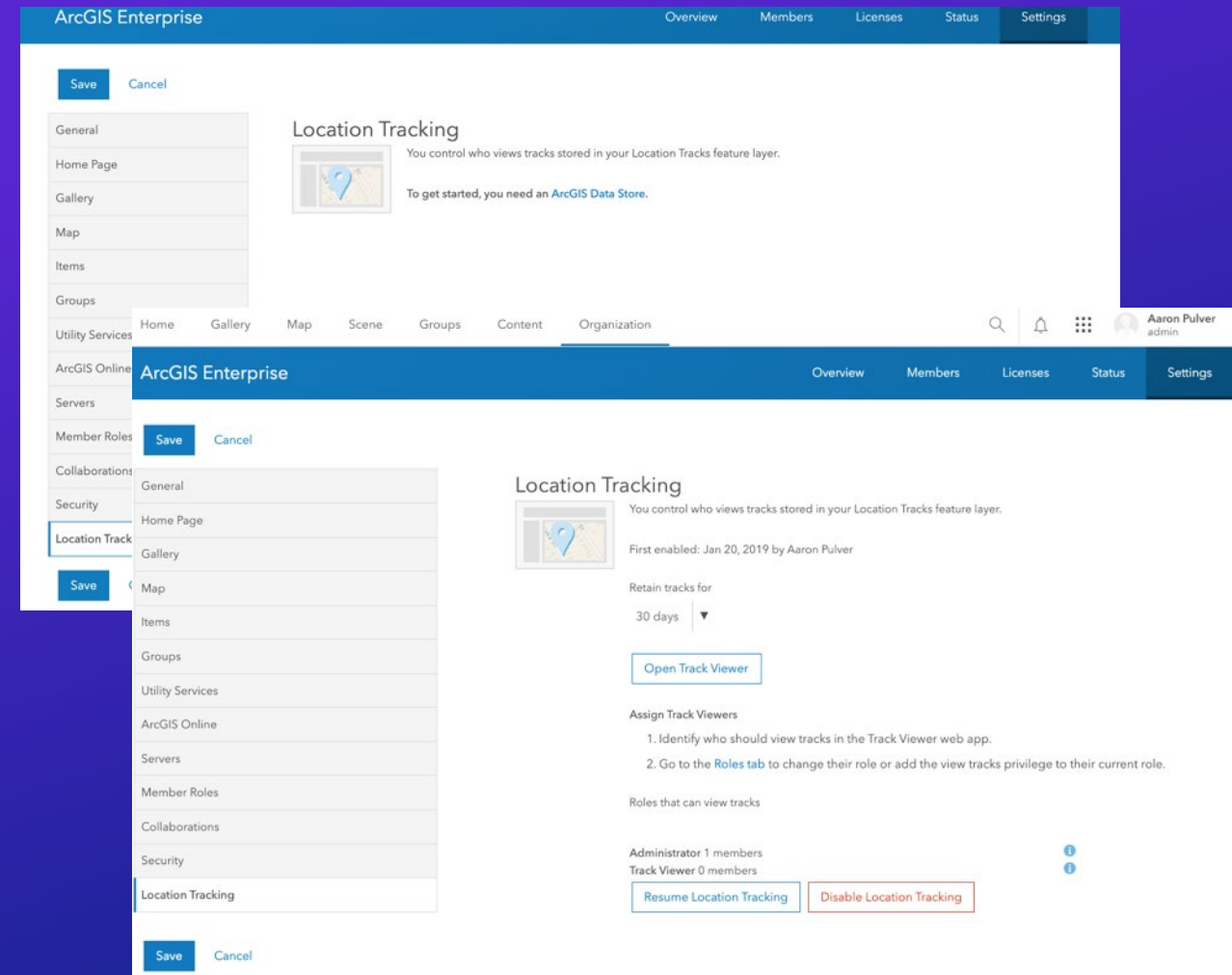
LOCATION TRACKING CAPABILITY



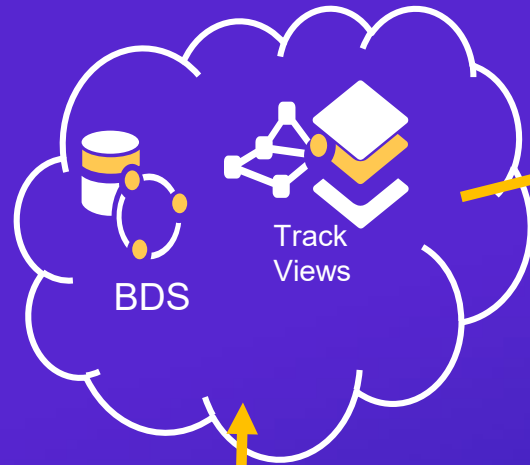
Location Tracking Capability

Included at ArcGIS Enterprise 10.7+

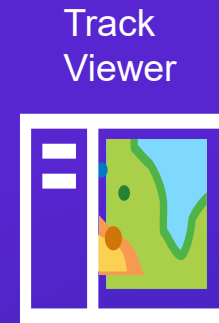
- Requires the Spatiotemporal Big Data Store
- Administrators enable location tracking
 - Creates a folder called Location Tracking
 - Creates a single service for storing and managing location tracks
 - Exposes a new View Tracks privilege for track viewers
- Tracks have a retention period
 - Default 30 days
- Admin can pause/disable tracking
- Admin can view how many members can view tracks



Administrator



Feature
Service
View



Supervisor



Dashboards



Read/Write



Tracker
App



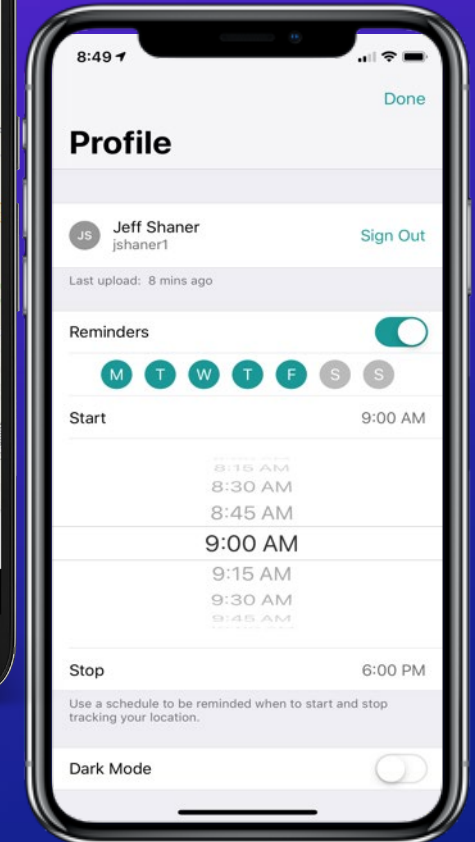
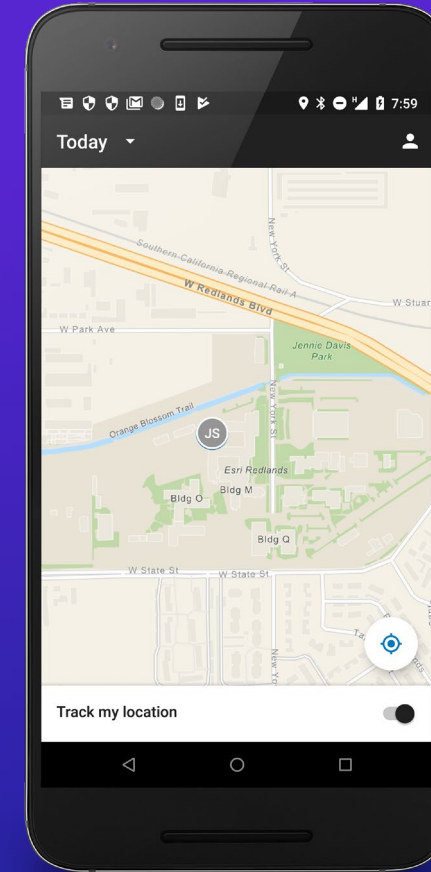
Mobile User





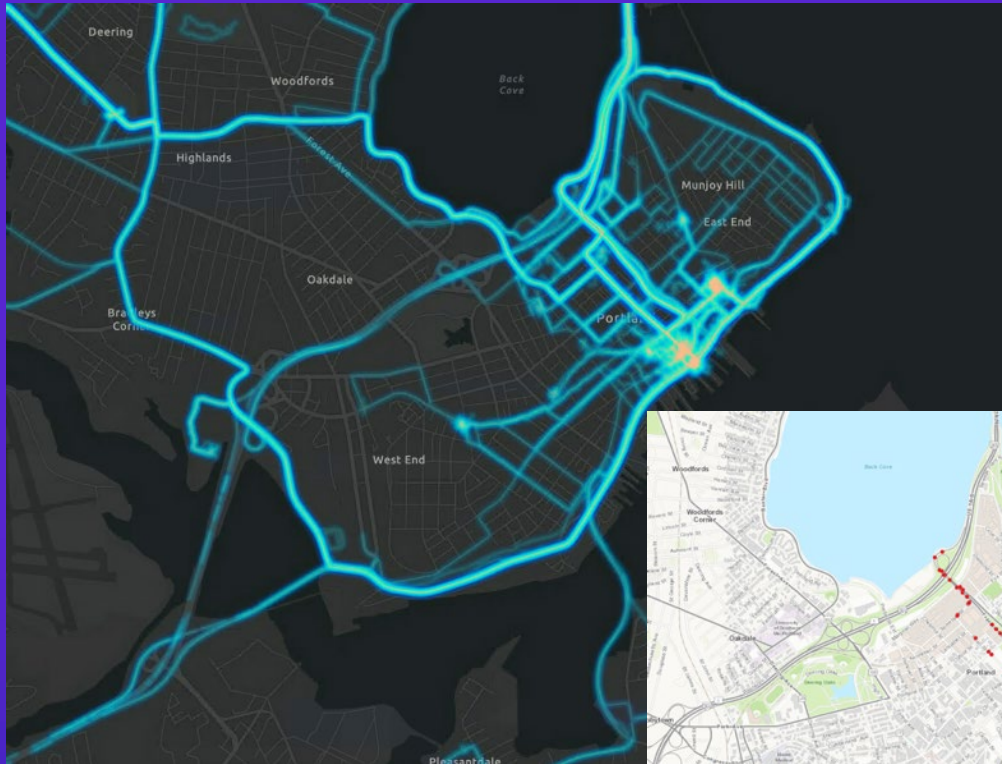
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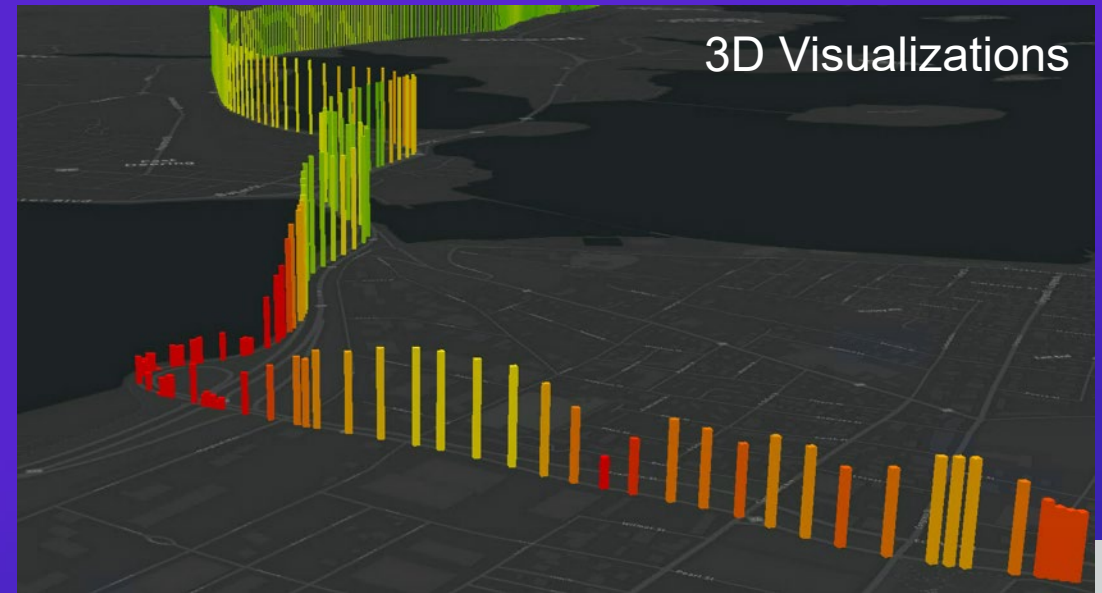
Analyzing Location Tracks



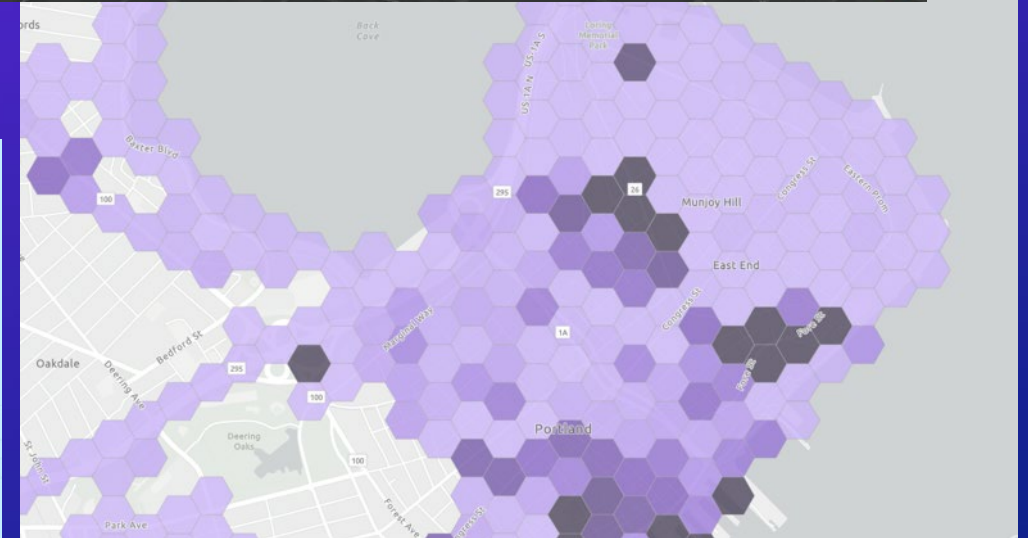
Linear heat maps



Incident Detection



3D Visualizations



Aggregation

Track Analysis

Examples:

- Convert Track Points to Lines
- Aggregate Points into Polygons
- Creating 3D scenes
- Creating Linear Heatmaps
- Animating Tracks
- Incident Detection



Enhance workflows by pairing apps

Capture and Monitor



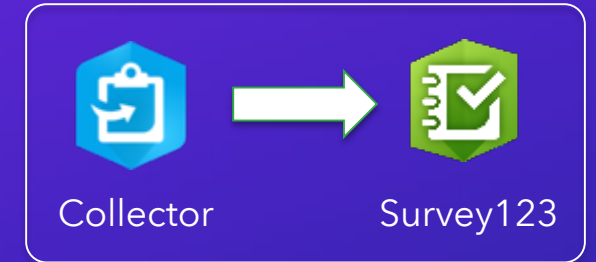
Workforce Launchpad



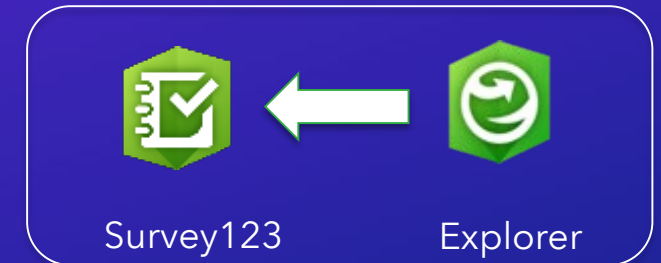
Third Party Integrations



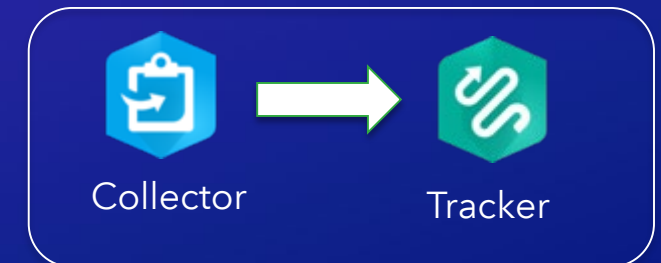
Maps + Forms



Forms + Maps



Inspect + Track



Tracker for ArcGIS

What's Next

- ArcGIS Online
 - Dec 2019
 - Will include mobile app updates for iOS and Android platforms
- What's Next
 - Ability to set and push a location profile to all Tracker users in an organization
 - Basic analysis capabilities in the Track Viewer web app
 - Basic charting capabilities in the Track Viewer web app
 - Support for push notifications to return last known location / tracks

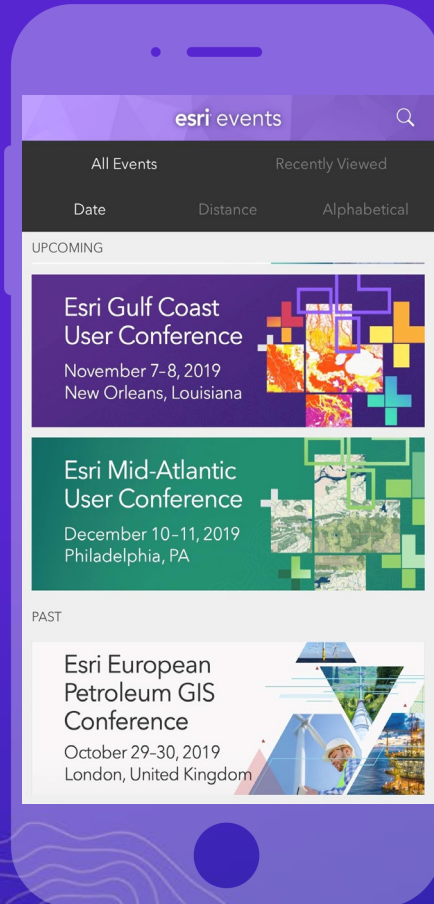
Monitor

Know where workers are
and see the progress of
work in real-time

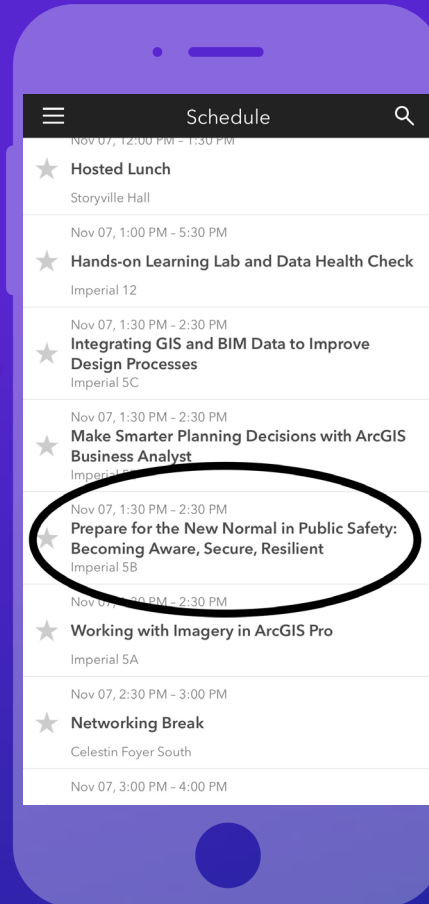


Give Us Your Feedback

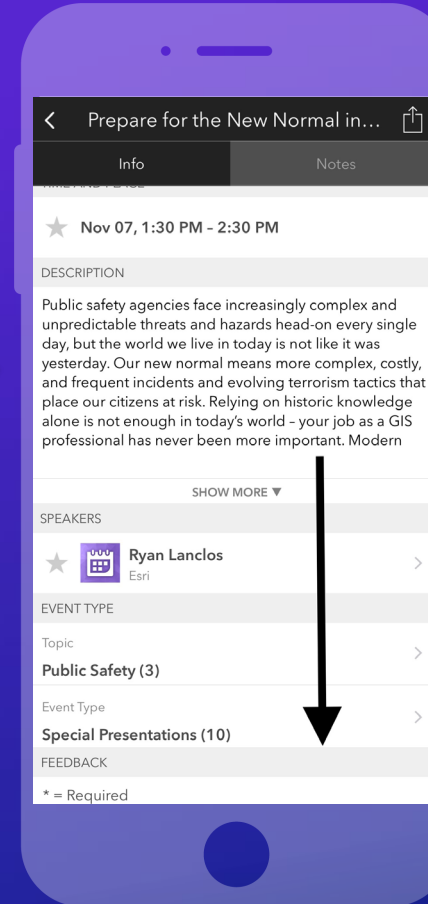
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Scroll down below the description to find the feedback section



Complete answers and select "Submit"

