

# Monitor and Manage a Workforce With Tracker for ArcGIS

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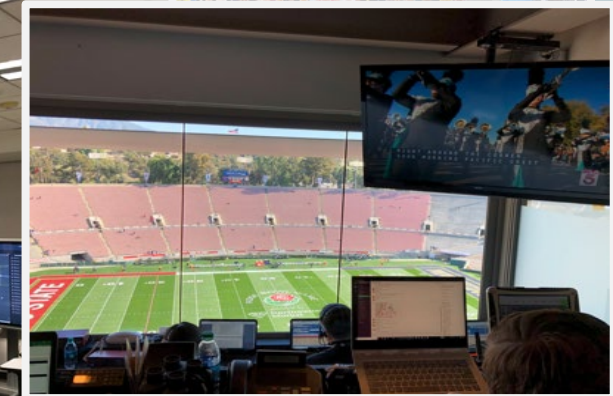




# Location Tracking

How can I use it?

- Situational Awareness during events
  - Rock and Roll marathon
  - LA Marathon
  - Superbowl
  - Grey Cup
  - Mardis Gras
- Display Last Known Location
  - Security
  - Medical
  - Event Staff



# Location Tracking

How can I use it?

- "Near real-time" assessments
  - Flooding
  - Wildfire
  - SAR





# Location Tracking

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How can I use it?

- Level of service
- Smartphone/Tablet app on contractors
- Identity Management
- Turn on/off when needed



# Tracker for ArcGIS

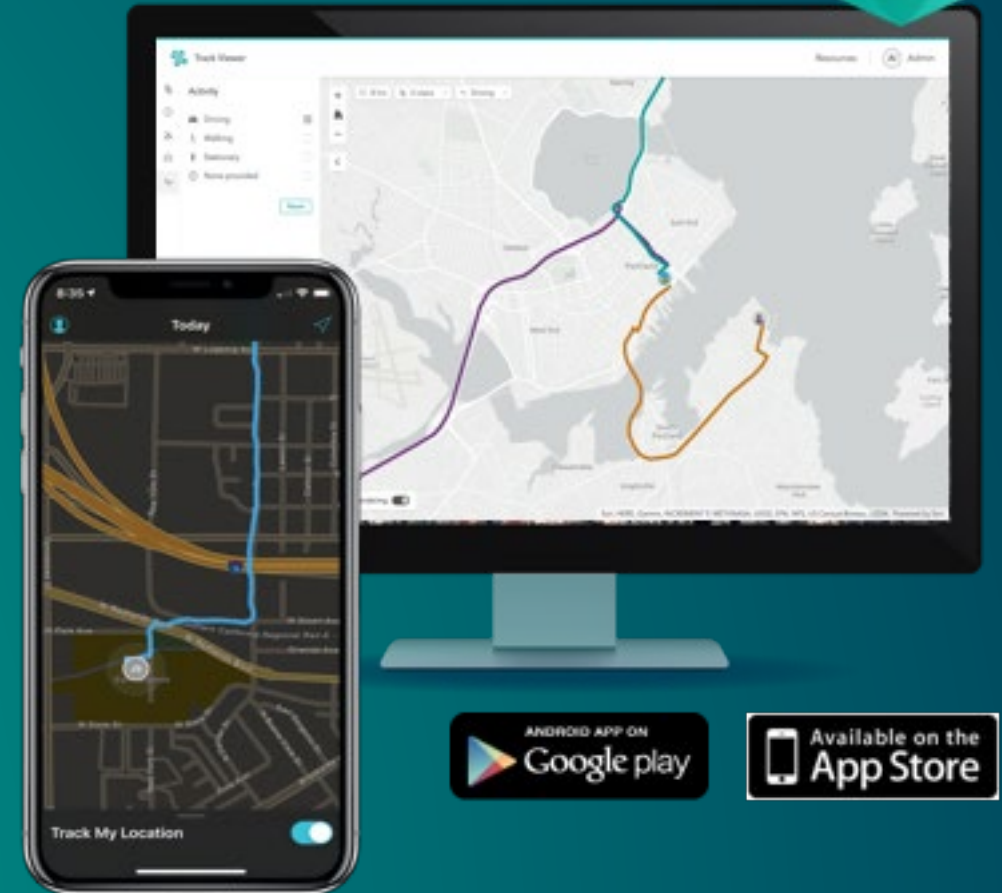
Know what happens In the field



Share your location

Know where everyone is

Detect Patterns



# Tracker for ArcGIS

## Key Components

### Tracker Mobile app (iOS, Android)

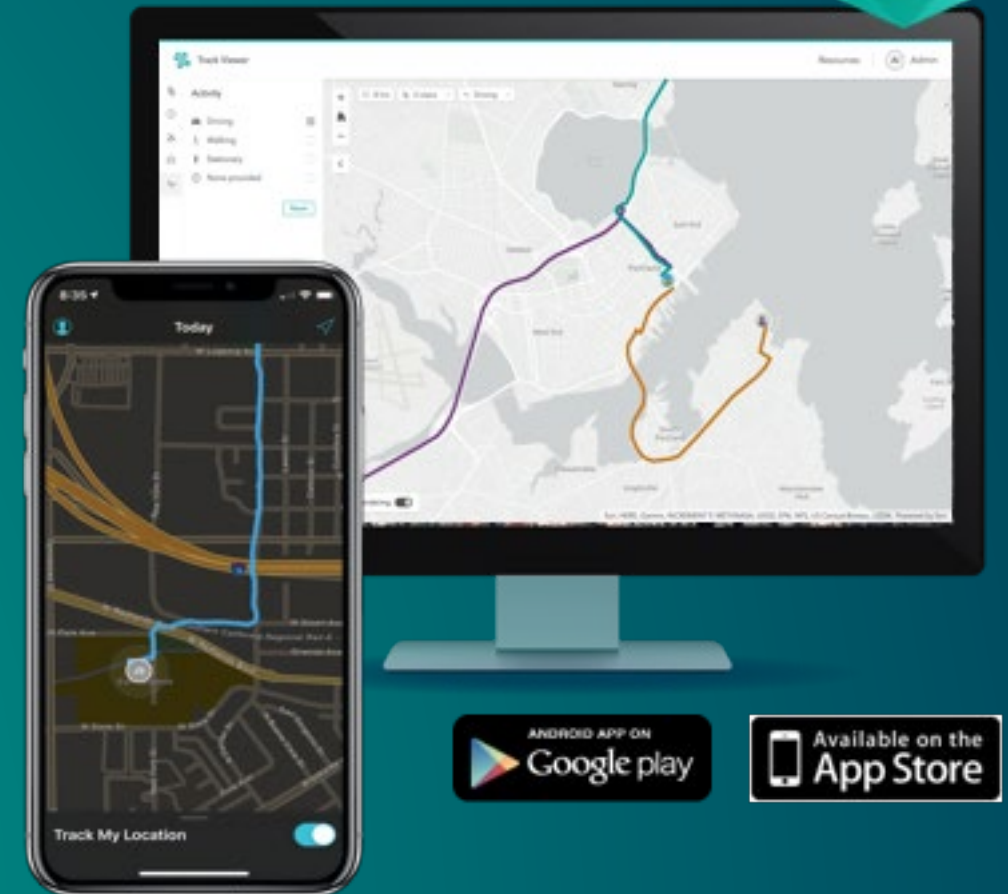
- Simple, schedule-driven tracking experience
- Supports offline use
- Optimized for low battery consumption
- Requires an premium add-on license

### 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
- Enterprise requires the **spatiotemporal big data store**



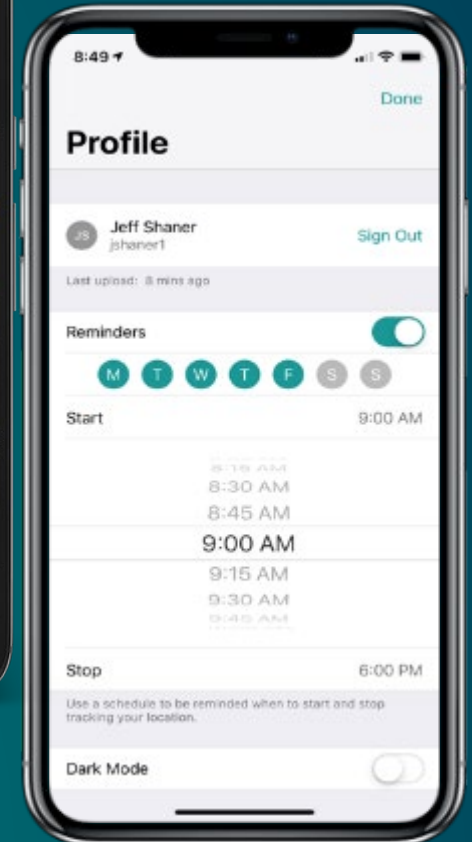
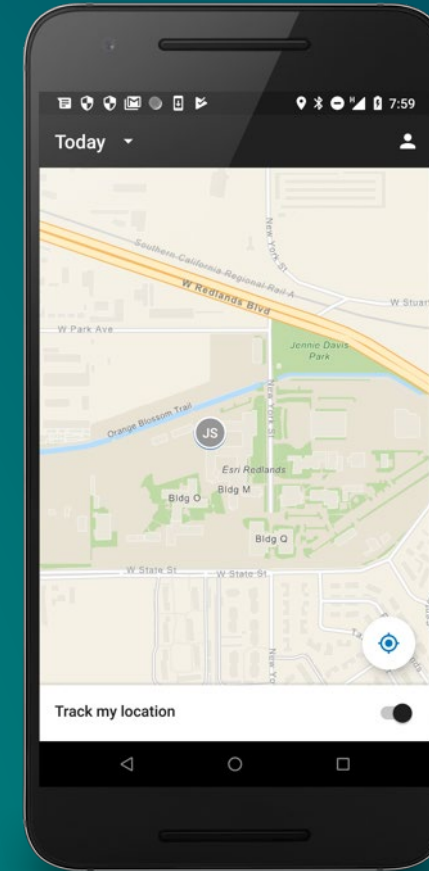
# DEMO

Introducing Tracker for ArcGIS



# Tracker 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 mobile Core Motion and Fitness 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, 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
- 3<sup>rd</sup> Party apps consume tracking service



# Tracker for ArcGIS

## Privacy and Security

- Personal Privacy
  - Mobile user is in control of when to record and share tracks
  - Mobile user can set a schedule to determine when to start/stop tracking
  - Administrator CANNOT remotely control tracking
- Corporate Privacy
  - With ArcGIS Enterprise you own and manage your location tracks
  - Data store can be behind your firewall, use app-level VPN to sync



# DEMO

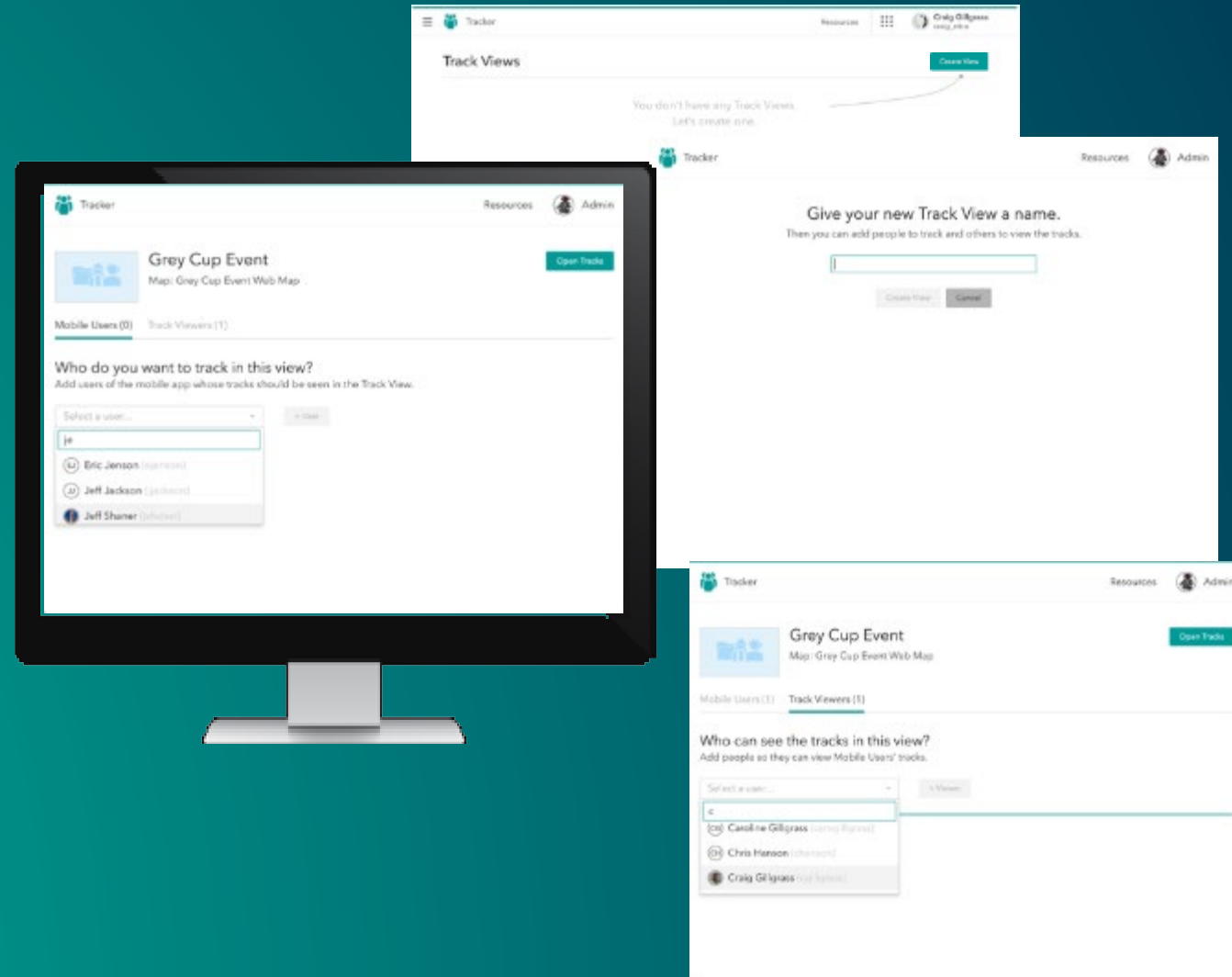
Creating and using Track Views



# Tracker for ArcGIS

## Administrator - Creating Track Views

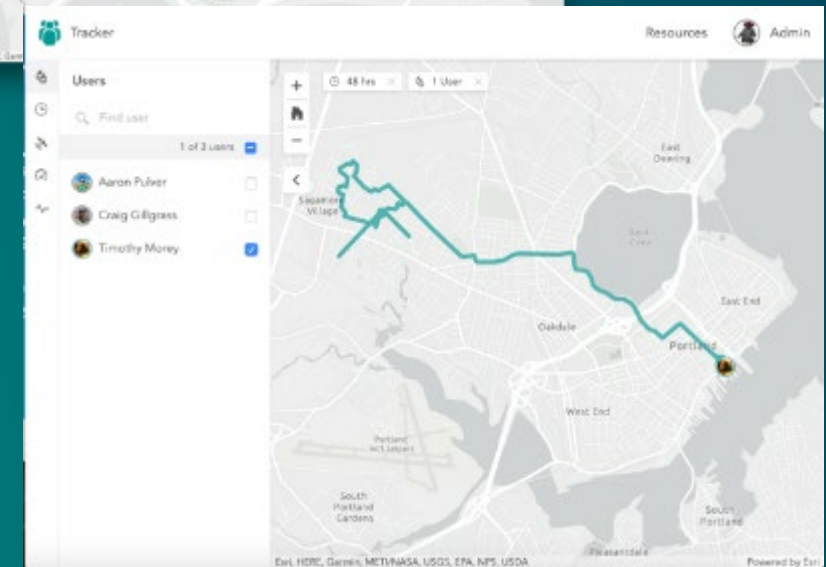
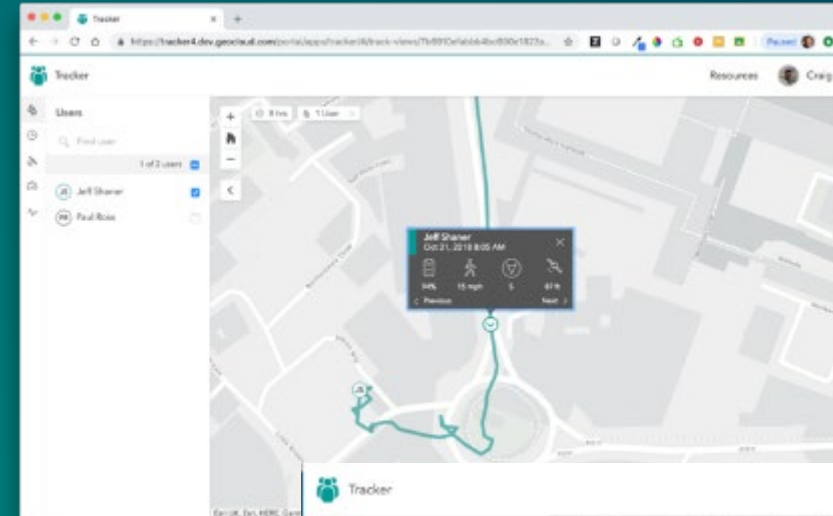
- Track Views
  - Can create multiple Track Views
  - New Group with Track Name
  - Feature Service View shared in group:
    - LKL layer
    - Tracks layer
  - **Must be an Administrator**
- Mobile Users
  - Users being tracked
  - Must have the Tracker add-on license
- Track Viewers
  - Users that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



# Tracker for ArcGIS

## Supervisor - 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

Included with ArcGIS Enterprise 10.7+

- Enterprise requires the Spatiotemporal Big Data Store
  - 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

