Mobile
Field Apps

Taking GIS Beyond the Office

- Configurable apps
- Connecting the field with the enterprise
- Built on top of the ArcGIS Platform
ArcGIS App Builders | Frameworks for Configuring and Creating Apps

Web AppBuilder

Many 2D Widgets

500,000+ Web Apps Created and Deployed

AppStudio

Build Once

Deploy Anywhere

No Programming Required
Developers | ArcGIS Runtime SDKs and Architecture

- .NET
- iOS
- macOS
- Android
- Java
- Qt QML

Runtime Common API
C++ with C ABI

C++ Runtime core
Mapping and GIS capabilities
Taking GIS Beyond your Office

- Hydrant Inspections
- Map Change Requests
- Joint Use Surveys
- Damage Assessments
- Water Quality Inspections
- Permit Inspections
- Sign Inventory
- Streetlight Inventory
- Guardrail Inspections
- Census Surveys
- Mosquito Abatement
- Well Inspections
- Meter replacement program
- Meter Inspections
- GCP Collection
- Leak Surveys
- Debris Reporting
- Valve Inspections
- DUI Checkpoint
- SCAT collection
- Trail mapping
- Park and trail viewer
- Parcel mapping
- Tree-trimming
- Pigging operations
- Invasive Species Mapping
- Aquatic surveys
Field Workflows

- Operations Dashboard for ArcGIS
- Explorer for ArcGIS
- Collector for ArcGIS
- Survey123 for ArcGIS
- ArcGIS Pro
- Workforce for ArcGIS
- Navigator for ArcGIS

Field Operations
Workforce for ArcGIS
Workforce for ArcGIS
Coordinate field work

Plan, coordinate field work

Location Awareness

Optimize field operations

Available on the
App Store
Workforce for ArcGIS RoadMap

• March 2019
  - Make it easy for the worker
    - Projects will open with everything they need* to go offline
    - Any choices or complexity is handled by the Project Owner
    - Workers need the ability to view unassigned work and self-assign or pick-up the assignment

• After March
  - Continue to improve app integration
    - More fields, more capabilities
    - Custom apps
  - Ability to expand the Assignment schema
  - Multiple Project Owners
Navigator for ArcGIS
Navigator for ArcGIS
Get your field workforce where it needs to be

Leverage your own map (search, route, display)

Create routes honoring your specific vehicle type

Work offline - maps are on your device
Navigator for ArcGIS Road Map

18.1.0 (end of 2018)

• Pre-planned routes
  - Navigate using route geometry

• Popup Support
  - Full popup support for features

• UI/UX refresh
  - Look and feel equal to Explorer, Collector, Workforce
Survey123 for ArcGIS

Form Centric Data Collection

Simple data collection experience

Web & Native / Desktop & Devices

End to end data collection workflow
- New High Quality Custom Report capabilities
  - Define your report template in Microsoft Word
  - Upload template to ArcGIS Online
  - Generate reports one at a time or in bulk
- Direct support for external GNSS receivers
  - Connect to high accuracy GNSS sensors
  - Store GNSS metadata as GIS attributes
- Better Maps
  - Support for webmaps
  - Mobile map packages (vector tiles…)
- New Extensibility framework for partners and developers

Releases every 8-10 weeks across all supported platforms
Collector for ArcGIS
Collector for ArcGIS
Map Centric Data Collection

Web Maps
Works offline
High accuracy GPS
Collector for ArcGIS Road Map

• Current status
  - IOS: first release end of Oct/early Nov
  - Android: beta program, release targeted for end of 2018

• Themes
  - Better maps
  - Improved user experience
  - Enhanced collect experience
  - Several new capabilities
Demo
Explorer for ArcGIS
Explorer for ArcGIS
Your maps in your mobile device

Your maps anywhere

Access information while disconnected

Sketch, annotate, and communicate

Available on the App Store
Explorer for ArcGIS

19.1.0 Release

- Pre-planned offline maps support
- On-demand offline maps support
- Explorer on the Windows platform!
Operations Dashboard
Operations Dashboard for ArcGIS

• Included with 10.6.1 Release
  - New Configurable web app
  - Many ready-to-use data visualizations
    - Map, Serial chart, Pie chart, Indicator, Gauge
    - List, Details, Embedded content, Rich text
  - Various tools and Interactivity Options

• What’s Next
  - New layout options for data visualizations
  - Dashboard actions via URL parameters
  - TV-ready dashboards

• What’s After Next
  - Better mobile experience
  - Moving to 4.x JS API
  - 3D Web Scenes
  - IoT Dashboards
Location Tracking

Emergency Response

Level of service

Proof of work
What Is Location Tracking in ArcGIS

• Organizational Capability
  - Administrators can enable location tracking in their organization
  - Will create a single service for storing and managing location tracks in the big data store

• Mobile app
  - Simple, schedule-driven tracking experience
  - Supports offline use
  - Optimized for low battery consumption
  - Any level or named user role can contribute

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

**Administrator View**
- Create Track Views
  - Group, Track Privileges

**Supervisor View**
- View Tracks for a user
- Investigating track point data
- Filter tracks by Date/Time
- Filter tracks by Accuracy
- Highlight tracks using Speed
- Highlight tracks using Activity
Location Tracking Release Plan

- Closed Early Adopter now
- Beta program coming in November
- Support for both ArcGIS Online and ArcGIS Enterprise
- Mobile app for iOS and Android platforms
- Release in Q2 2019 (ArcGIS Enterprise 10.7 and ArcGIS Online)