

Esri Developer Summit

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Workforce for ArcGIS

Craig Gillgrass

Jeff Shaner

Field Operations with ArcGIS



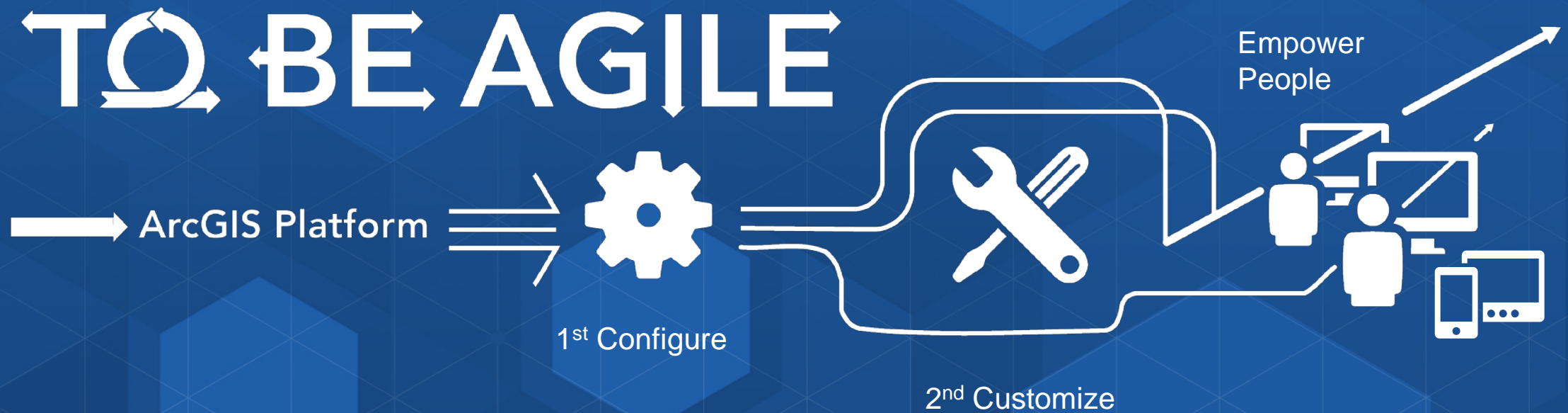
Mobile Apps Strategy

- Extend the reach of Web GIS
- Target specific functional needs
- Work together on your device
- Office and Field integration
- Platform agnostic



Key Principle

- ▶ Employing the agile methodology will deliver immediate value to your business today and into the future



Workforce for ArcGIS| Coordinating field to office workflows



- Field workforce optimization
- Efficiently plan and assign work
- Receive assignments and report status from the field
- In beta now, Q2 release

The image displays the ArcGIS Workforce for ArcGIS website and mobile app interface. The website screenshot shows the product page with the title "Workforce for ArcGIS" and the tagline "Smarter Field Workforce Coordination at Your Fingertips". It features a central graphic of a worker in an orange hard hat and a smartphone displaying a map with a location marker. Below the main content, there are four key features highlighted:

- A 360° View Keeps Things Right:** A common view in the field and the back office allows the right things to happen, the right worker at the right place with the right tools to do the right job.
- Real-time Awareness:** Gain insight from the office into the status of field assignments. Quickly adapt as priorities for field work change.
- Smart Devices, Smart Workers:** Using devices to carry their maps and assignments makes it easy for your field workers to stay organized, report progress, call for assistance, and remain productive.
- Integrated with ArcGIS:** Combined with other ArcGIS apps, you can maximize efficiency in your field workforce on a platform you trust.

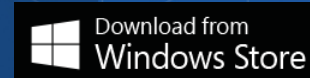
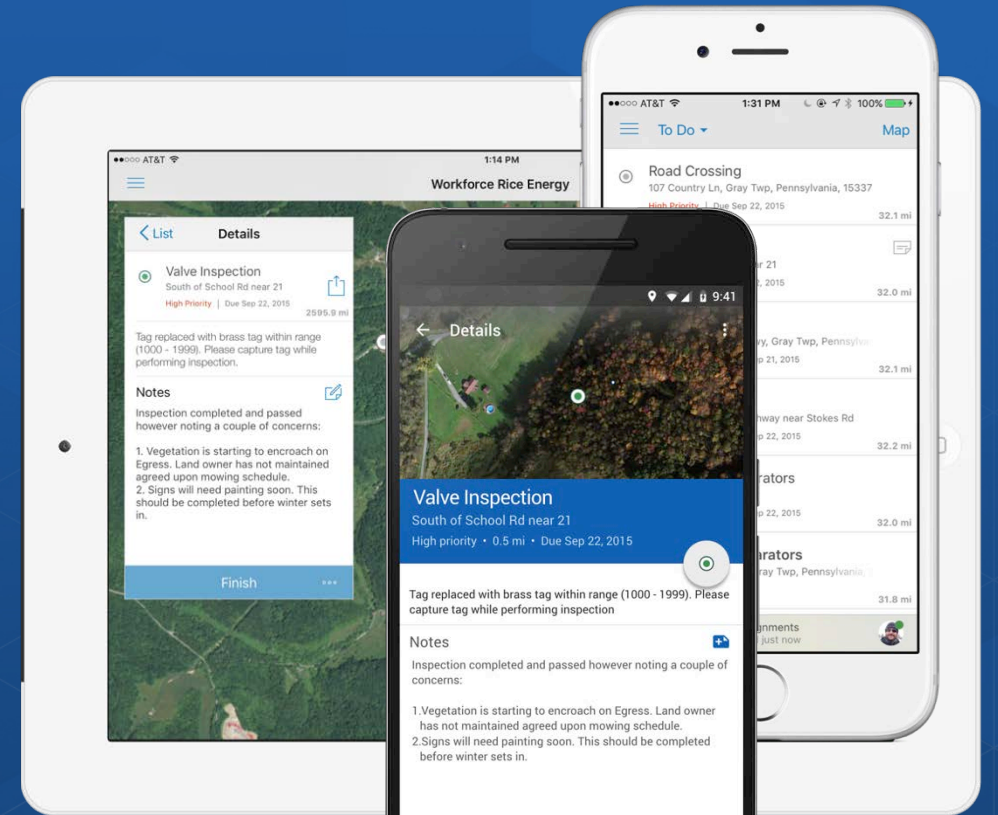
The mobile app screenshot shows a "To Do" list with a "Map" button. The list contains several assignments with details such as priority, location, and distance:

- 1 Assignment Added**
- Critical Priority** - 30.8 mi
- TDED Inspection** - TRINIDAD 224 - gate located in the NW corner - High Priority - 36.2 mi
- Inspection** - H & P 456 - New drill, road just plowed - look for dozer - Medium Priority - 47.8 mi
- Inspection** - NABORS B10 - gate is always open, SW corner - Medium Priority - 52.6 mi
- Teardown** - H & P 256 - Graveled access road and metal gates NW corner - 35.0 mi
- Assignment** - BB-CHAPIN A-151-95-0403H-7 - new drill in SW corner - 19.7 mi
- New Drilling Assessment** - 12708 38th St NW, Watford City, North Dakota - 49.8 mi

At the bottom of the app screen, it indicates "7 Assignments Updated Just Now".

Workforce for ArcGIS | Coordinate

- View and complete work assignments
- Organize your work list
- Receive notifications
- Set your working status
- Add and edit notes
- View referenced attachments



DEMO

Workforce for ArcGIS | Dispatch work

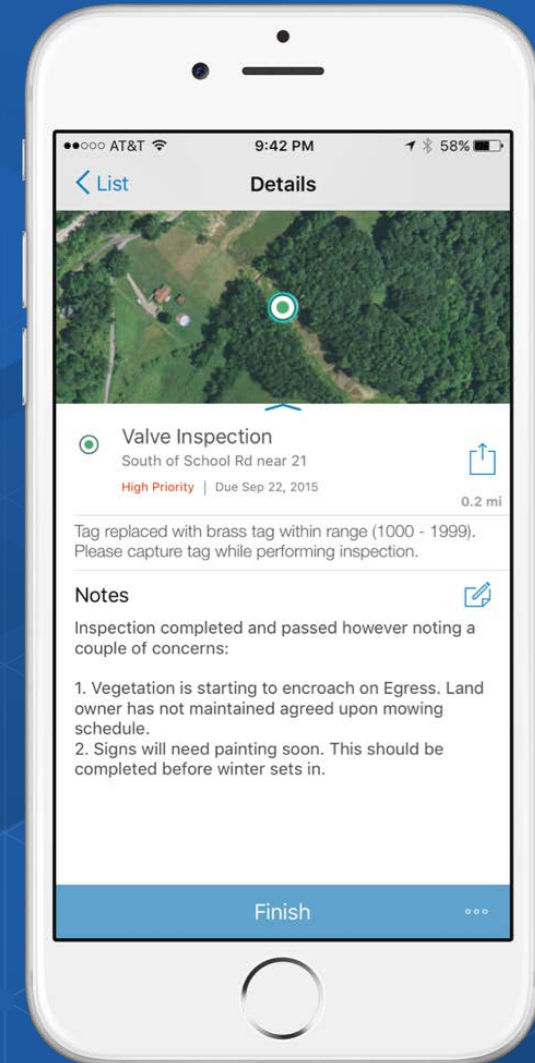
- Create new work assignments
 - By Geocode
 - Using the Map
 - From features
 - Automatically
- Assign, re-assign and cancel work
 - Individually
 - In bulk
- Filter and sort assignments
- View all mobile workers
- Search the map

The screenshot displays the ArcGIS Workforce interface. On the left, the 'Create an Assignment' form is visible, with fields for Assignment Type (Valve Inspection), Location (Jacksonburg Site), Assigned to (Zachary Schmitt), Priority (Medium), Due date (03/09/2016), Work Order ID (A12598), and Description (Quarterly Valve Inspection Report required). On the right, the 'Assign a Worker' dialog is open, showing a list of workers with their status and counts. The workers listed are Jeff Shaner (12), Zachary Schmitt (0), Adam Rusmisl (5), Brian Schill (12), Brian LeMasters, Chris Rusmisl, Grant Curfman, John Olesh, Robert Campbell, Thomas Teeling, James Joynson, and Andrew Mellema. A 'Filter workers' search bar is present at the top of the dialog. Below the worker list, a table shows assignment details with columns for Status, Due, Priority, Assignee, and Sort. A dropdown menu is open over the Priority column, showing options: None, Low, Medium (selected), High, and Critical. The table also shows a '4 assignments' filter and a 'Clear filter' button.

Status	Due	Priority	Assignee	Sort
<input type="checkbox"/>		4 assignments		
<input type="checkbox"/>		Meter Dropped Medium		
<input type="checkbox"/>		Meter Dropped Medium		
<input type="checkbox"/>		Corrosion Dropped Pin Medium Priority		

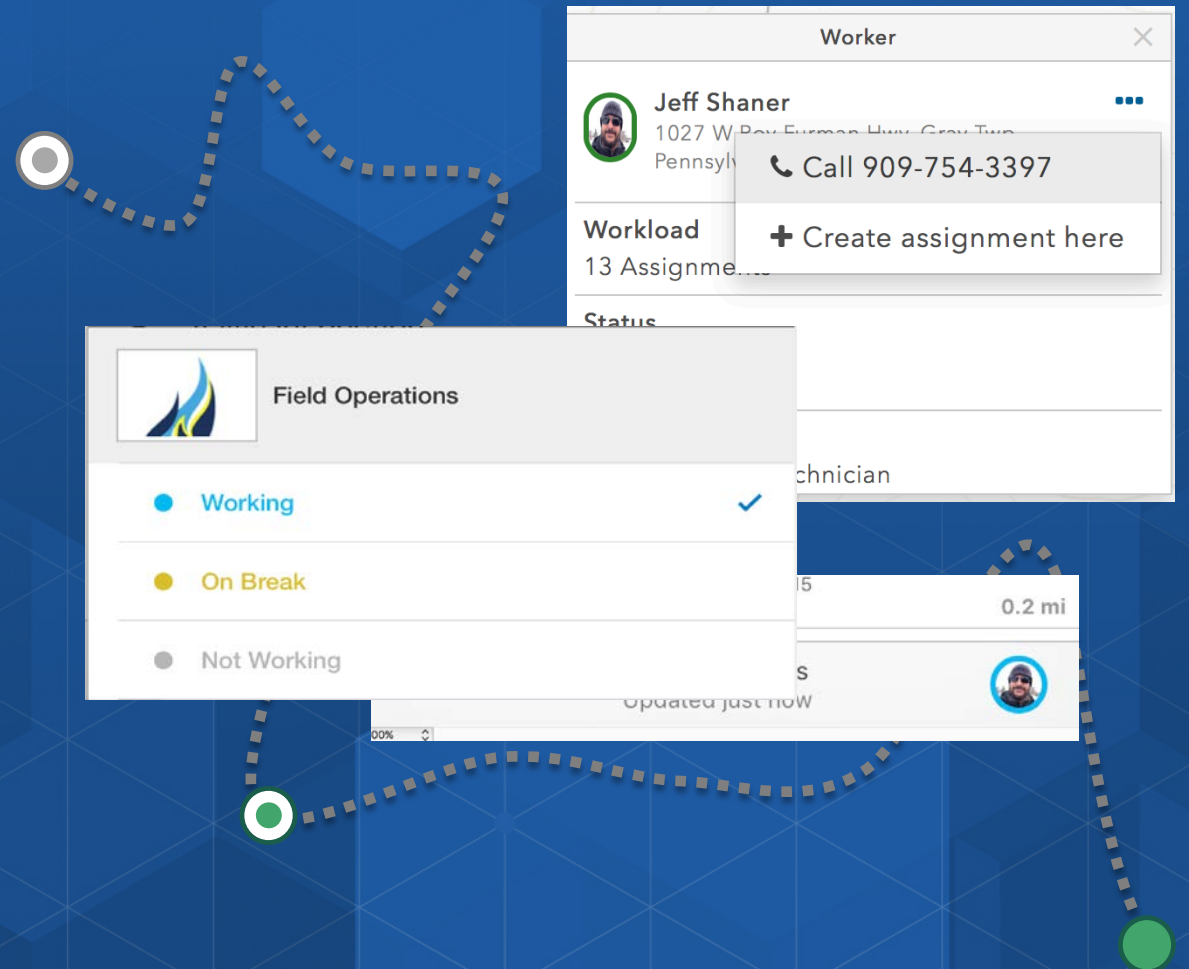
Workforce for ArcGIS | Work Assignments

- Properties of a Work Assignment
 - Status, Due Date, Priority, Assignee, Type
- States
 - Unassigned, Assigned, In Progress, Paused, Completed, Declined
 - Date/Time stamps
- Priorities
 - None, Low, Medium, High, Critical*
- Attachments
 - Documents, Pictures



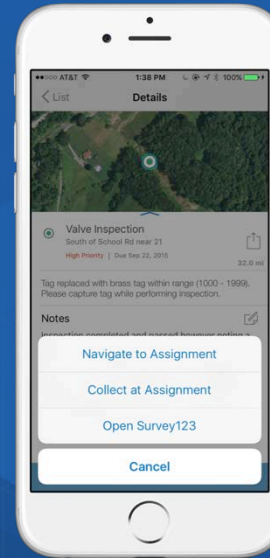
Workforce for ArcGIS | Workers

- Dispatchers and Mobile Workers
- Worker Details
 - Contact Number, Title, Notes
- Worker Status
 - Working, On Break, Not Working
- Worker Location
 - Current Location, Location Tracks



Workforce for ArcGIS | Get to assigned work

- Integrated with ArcGIS Apps so you can:
 - Get to the location of work assignments using Navigator for ArcGIS



Open Navigator
and create a route

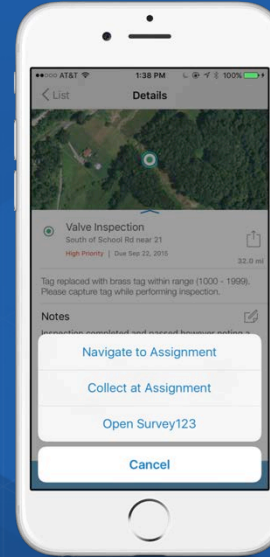


Return to Workforce
at destination

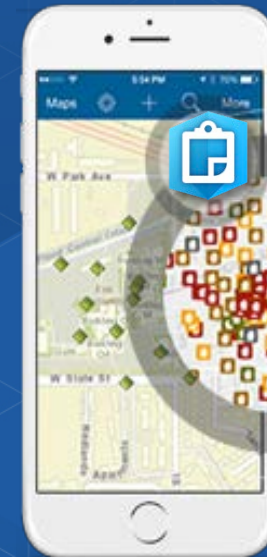
Workforce for ArcGIS | Collect at location

- Integrated with ArcGIS Apps so you can:
 - Get to the location of work assignments using Navigator for ArcGIS
 - Complete your work using:
 - Collector for ArcGIS

Open Collector
and go to location

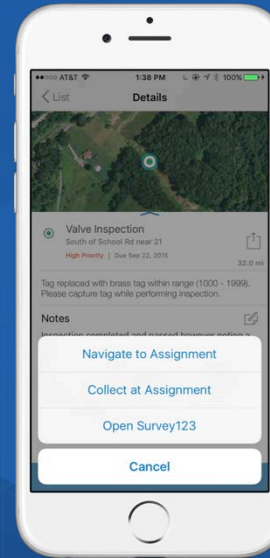


Return to Workforce
when finished

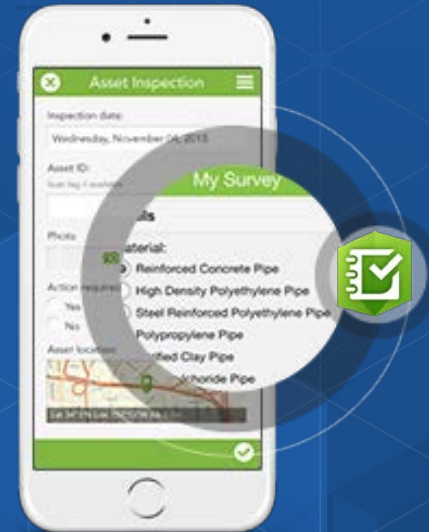


Workforce for ArcGIS | Survey at location

- Integrated with ArcGIS Apps so you can:
 - Get to the location of work assignments using Navigator for ArcGIS
 - Complete your work using:
 - Collector for ArcGIS
 - Survey123



Open Survey123

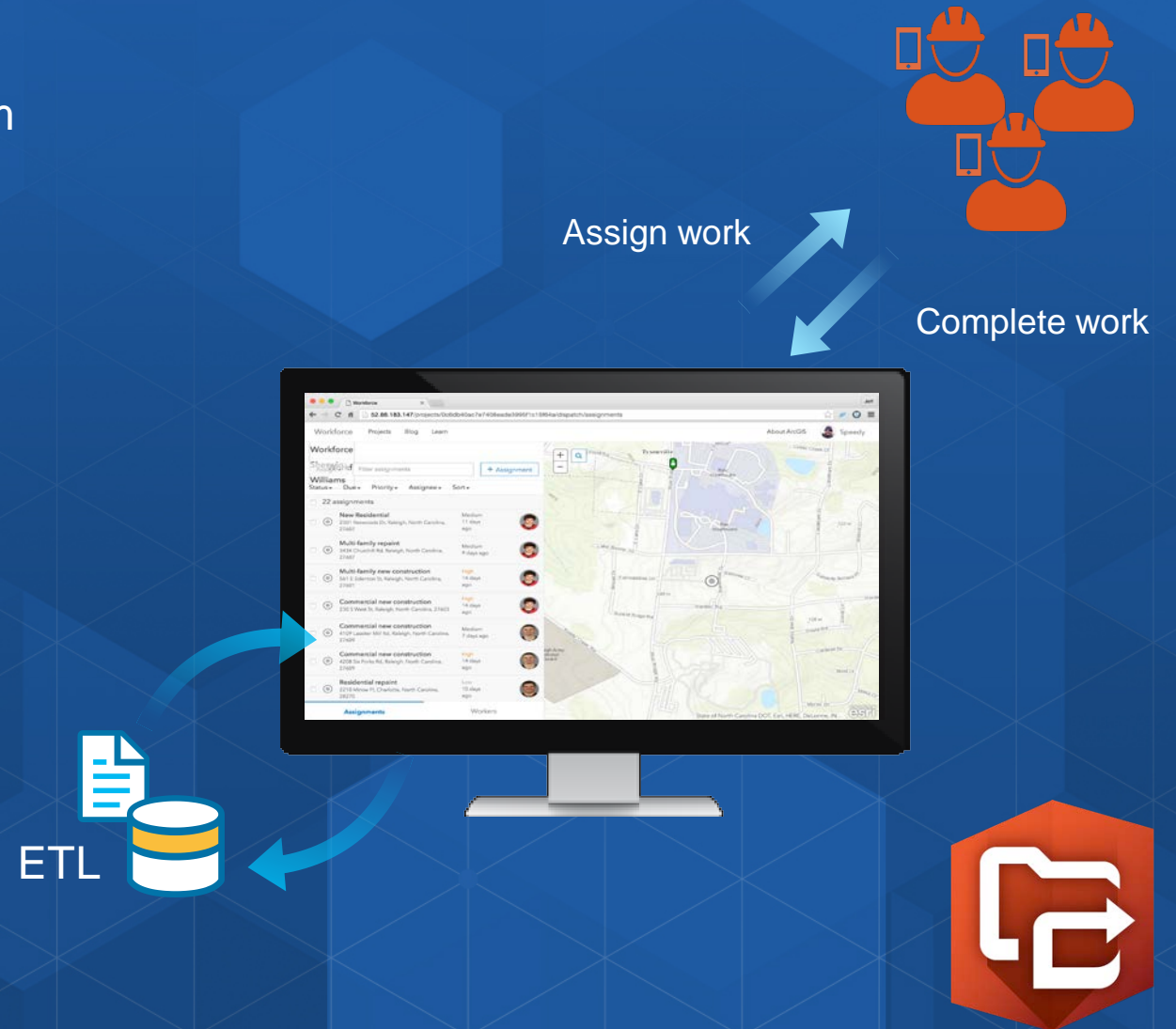


Return to Workforce when finished

DEMO

Workforce for ArcGIS | Plan

- 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 | Administer Workforce Projects

- Create new Workforce Projects
- Configure assignment types
- Add Dispatchers and Mobile Workers
 - Contact Number, Job Title, Notes
- Configure maps and layers
- Configure apps*

Assignment types specify the different kinds of work that your mobile workers need to perform. When creating a new work assignment, dispatchers choose from a list of assignment types.

Add an Assignment Type

Enter a new type...

Assignment Type In Use

Valve Inspection
Meter Filter Separators
Compressor Reading
Pigging
Road Crossing
Corrosion Inspection
Site Inspection
PA One Call
Meter replacement

Edit User Details


Contact Number

Adding a contact number allows mobile workers in this project to get in touch.

Job Title

Notes

Add notes for this user to describe their skills and inventory.

 **About this Project**

A summary has not been saved. What is this project for?

Users:
24
23 Mobile Workers,
1 Dispatchers

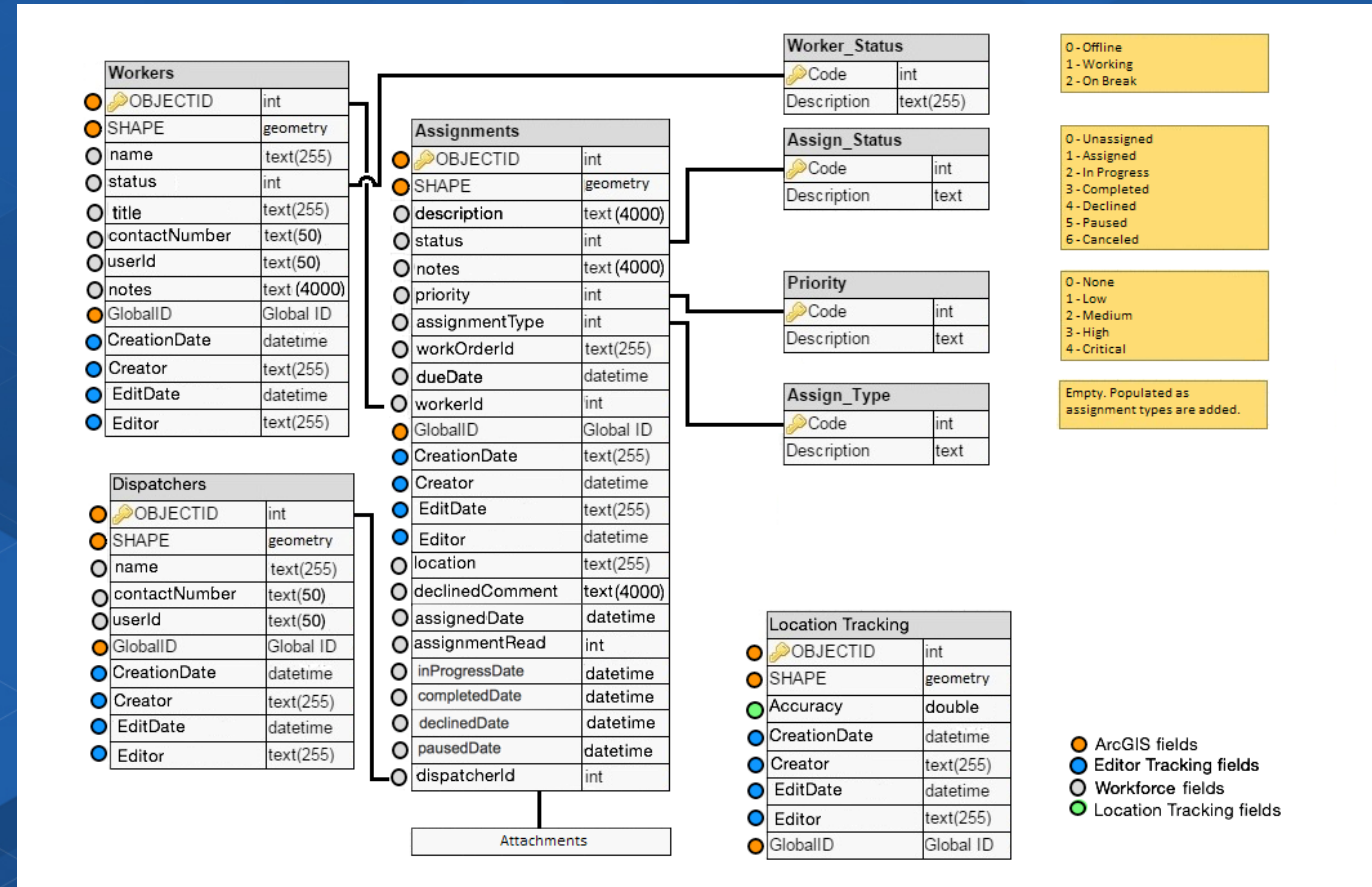
Assignments:
68
9 Completed, 53 Assigned,
6 Unassigned

Maps:
 Dispatcher map
 Worker map

Open the maps in ArcGIS Online to add new layers.

Workforce for ArcGIS | Workforce Project

- Workforce Project Item
- Maps
 - Dispatcher Web Map
 - Mobile Web Map
- Layers
 - Dispatchers
 - Workers
 - Assignments
 - Location Tracking
- Project Group
- Project Folder



First Release

- **Dispatcher to Mobile Workers**
 - Dispatchers can create work anywhere
- **Mobile Workers**
 - Must be connected
 - Assignment sorting



Summary

- **The First Release**

- We are almost there!

- **What's Missing??**

- Help us make it successful!
- workforce4arcgis@esri.com

