

Garden Mapping

An Overview of ArcGIS for Parks and Gardens

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ArcGIS for Parks and Gardens

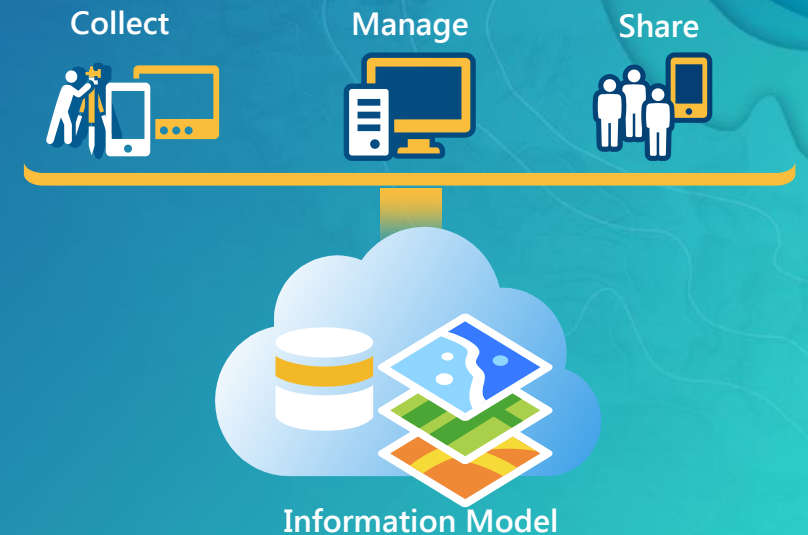
A configuration of the ArcGIS platform

- Maps, applications, and workflows for landscape management
- Focused on Administration, Collections, Development, Education & Interpretation, Facilities, and Research
- Targeted towards users from arboreta, botanical gardens, campuses, cemeteries, display gardens, historical landscapes, natural reserves, parks, private estates, zoos, and other managed landscapes
- Builds on the Alliance for Public Gardens GIS user community

Mission

Simplify the implementation of the ArcGIS platform for parks and gardens

- Build a foundation for institution-wide adoption
- Provide solutions for information collection, management, and sharing issues faced by all managed landscapes
- Deliver easy-to-use maps and apps that streamline common workflows
- Support and enhance our community
- Grow the community through presentations, workshops and symposia



Current Offering

Building a foundation for institution-wide adoption

- **Entire Organization**
 - Parks and Gardens Information Model
 - ArcGIS Online for Public Gardens
 - Canvas & Color Basemaps
- **Collections**
 - IrisBG Sync
 - Collection Mapper
 - Collection Viewer
 - Collection Editor
 - Tree Assessor
- **Facilities**
 - Irrigation Mapper
 - Irrigation Viewer
 - Irrigation Editor



ArcGIS Online for Public Gardens

A model configuration of ArcGIS Online and Portal for ArcGIS for public gardens

- Setup your ArcGIS Online subscription or Portal for ArcGIS account for your entire organization
- Quickly design your portal home page
- Setup groups that align with your work teams
- Share content with your team, organization, or the public



Parks and Gardens Information Model

An ArcGIS Desktop and Enterprise geodatabase schema

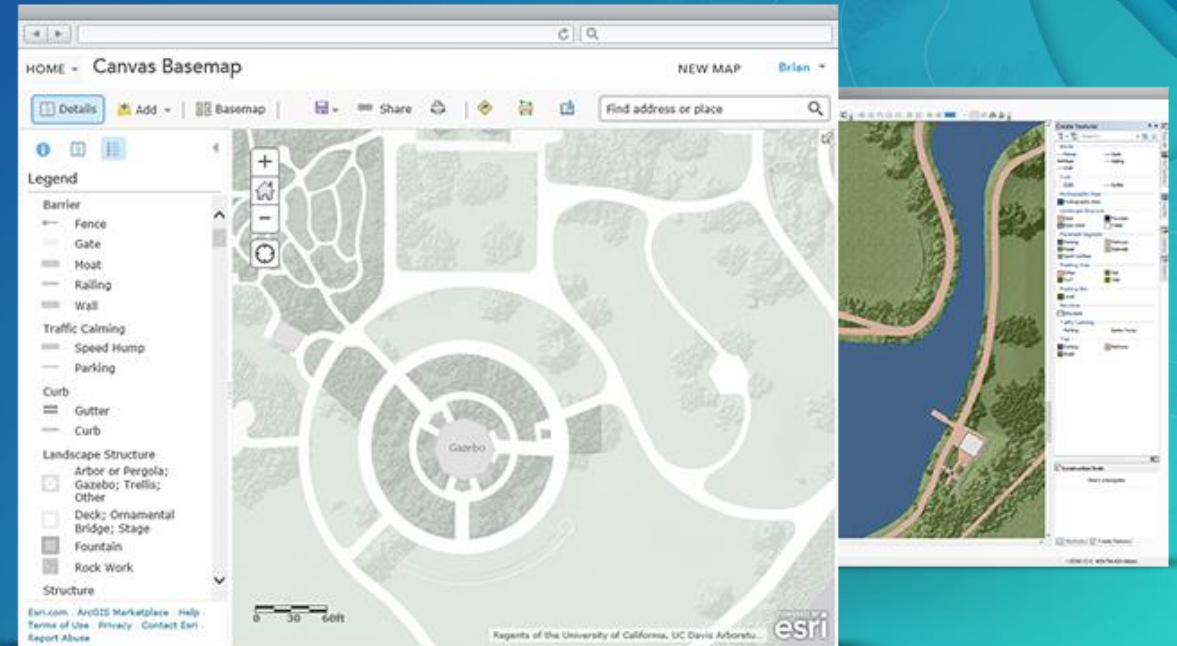
- Defines feature classes, attributes, and related tables for landscape management
- Major overhaul of the ArcGIS Public Garden Data Model
- Expanded capacity for plant records, asset management, utilities, and commemorative features
- Complimentary ArcGIS Online Service Catalog



Canvas & Color Basemaps

A configuration of ArcGIS Desktop for publishing basemap services

- Create and publish large scale, high performance basemap web services
- Based on the Parks and Gardens Information Model
- Import existing CAD or GIS data
- Heads-up digitize new features from aerial photography
- Available in any app on any device




Service Catalog Demonstration

PlantCenter [Edit](#)


Overview Data Visualization Usage Settings

[Edit Thumbnail](#)



Service for plant center mapping. [Edit](#)

by ArcGISforParksandGardens
Last Modified: February 23, 2016

 Feature Layer

★ Add to Favorites

Description [Edit](#)

This service contains plant center information and is intended for use in feature collection and updating.

Layers

Plant Center

[Open In](#) [Service URL](#)

Irrigation Mapper

A configuration of Collector for ArcGIS for irrigation system mapping

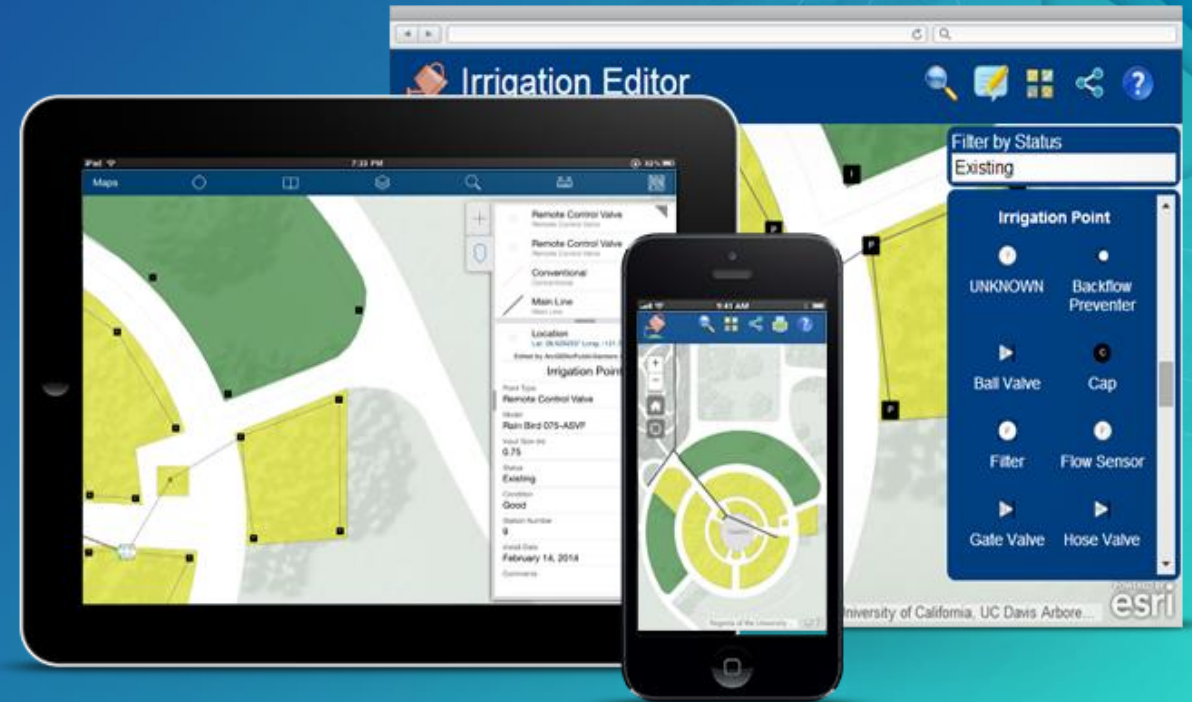
- Create and update irrigation system information in the field
- Designed by irrigation system specialists for use by all parks and gardens
- Rich information model with support for nearly all types irrigation features
- Industry standard symbology



Irrigation Editor

A web application for irrigation system data management

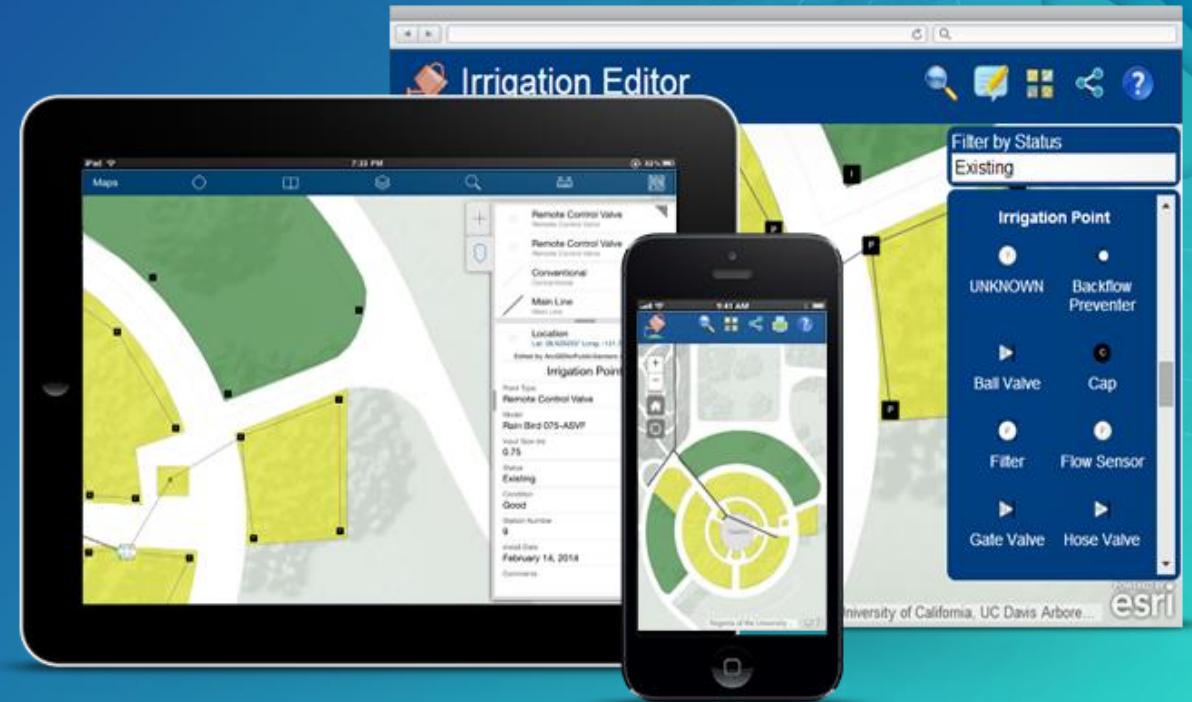
- Search irrigation inventory by multiple attributes
- Create new, and edit existing irrigation features
- Share map views with team members
- Little training required
- Available on desktops and tablets



Irrigation Viewer

A web application for viewing irrigation system information

- Search irrigation inventory by multiple attributes
- Share map views with team members
- Print maps for online or offline use
- Little training required
- Available on any device



IrisBG Sync

A configuration of ArcGIS Desktop for synchronizing data with IrisBG

- Load plant records data from IrisBG into ArcGIS
- Based on the Parks and Gardens Information Model
- Click on plants to quickly open records in IrisBG
- Next release to include round trip synchronization

The screenshot displays the ArcGIS Desktop interface. The main map window shows an aerial view of a park with several green circular markers representing plant locations. The Table of Contents on the left lists layers: Reference, Plant Center, Mass Planting, UNKNOWN, and Basemap. The ArcToolbox on the right includes various tool categories, with 'Parks and Gardens Tools' expanded to show 'Load Plant Center from IrisBG'. Below the map, a data table titled 'Plant Center' is visible, containing columns for OBJECTID, SHAPE, Plant Center ID, Accession Number, Qualifier, Plant Center Type, Number of Specimens, Plant Habit, Family, Family Common Name, and Genus. A workflow diagram is overlaid at the bottom, showing a sequence of steps for data synchronization, including 'Load Plant Center from IrisBG' and 'Export to File'.

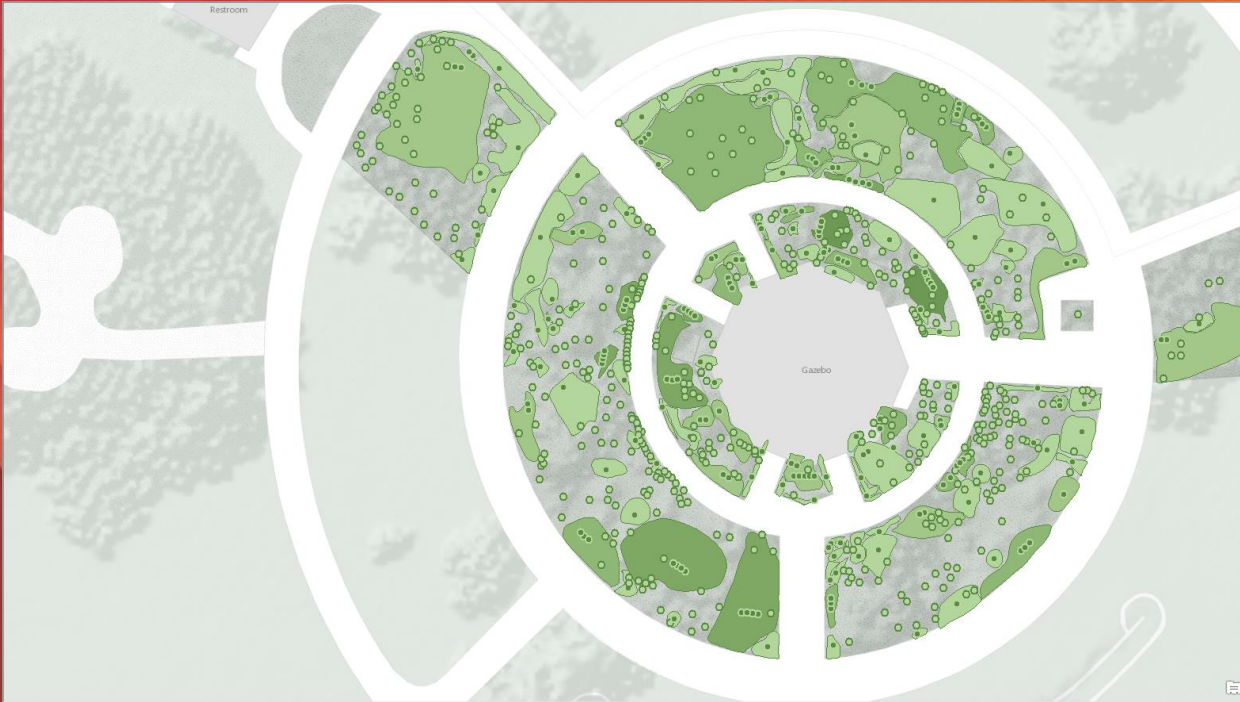
OBJECTID	SHAPE	Plant Center ID	Accession Number	Qualifier	Plant Center Type	Number of Specimens	Plant Habit	Family	Family Common Name	Genus
339	Point	1970-1671/1	1970-1671	1	Plant Center	-Hub-	UNKNOWN	Geraniaceae	-Hub-	Gerani
340	Point	2008-9914/1	2008-9914	1	Plant Center	-Hub-	Perennial herb	Rosaceae	-Hub-	Aronica
341	Point	1992-981/2	1992-981	2	Plant Center	-Hub-	UNKNOWN	Anacardiaceae	-Hub-	Cotinus
342	Point	2008-6303/1	2008-6303	1	Plant Center	-Hub-	UNKNOWN	Geraniaceae	-Hub-	Gerani
343	Point	2007-9907/1	2007-9907	1	Mass Planting	-Hub-	Perennial herb	Apiaceae	-Hub-	Astragal
344	Point	2007-9907/2	2007-9907	2	Mass Planting	-Hub-	Perennial herb	Apiaceae	-Hub-	Astragal
345	Point	1999-1072/1	1999-1072	1	Plant Center	-Hub-	UNKNOWN	Anacardiaceae	-Hub-	Cotinus

Collection Mapper

A configuration of Collector for ArcGIS for living plant collection mapping

- Create and update living plant collection information in the field
- Perform inspections, create work orders, and track maintenance history
- Track labeling and dedications
- Perform tree health and hazard assessments
- Collect ecosystem services metrics



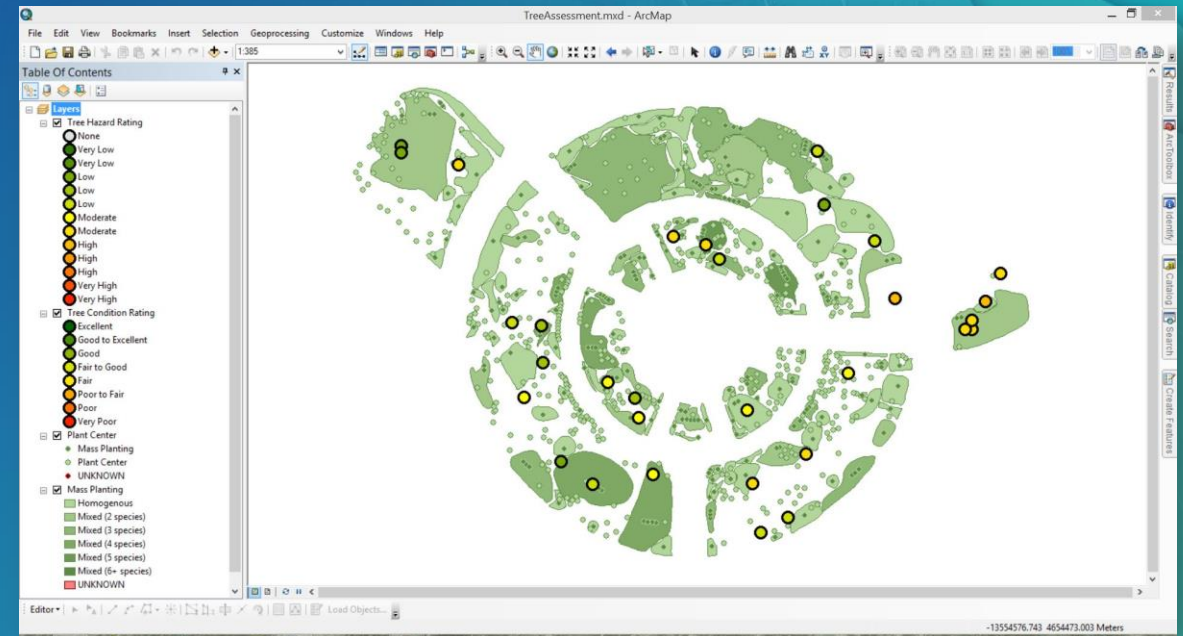


Collection Mapper Demonstration

Tree Assessor

A configuration of ArcGIS Desktop for tree assessment

- Perform tree health and hazard assessments in the office
- Certified arborist performs field assessment
- Geoprocessing tool calculates hazard rating based on ISA standard
- Geoprocessing tool calculates condition rating based on ISA and Neighbourwoods standards



Collection Editor

A web application for living plant collection data management

- Search collection inventory by multiple attributes
- Create new and edit existing plant features
- Markup and share collection maps with staff, researchers and visitors
- Little training required
- Available on any device



Collection Viewer

A web application for viewing your living plant collection data

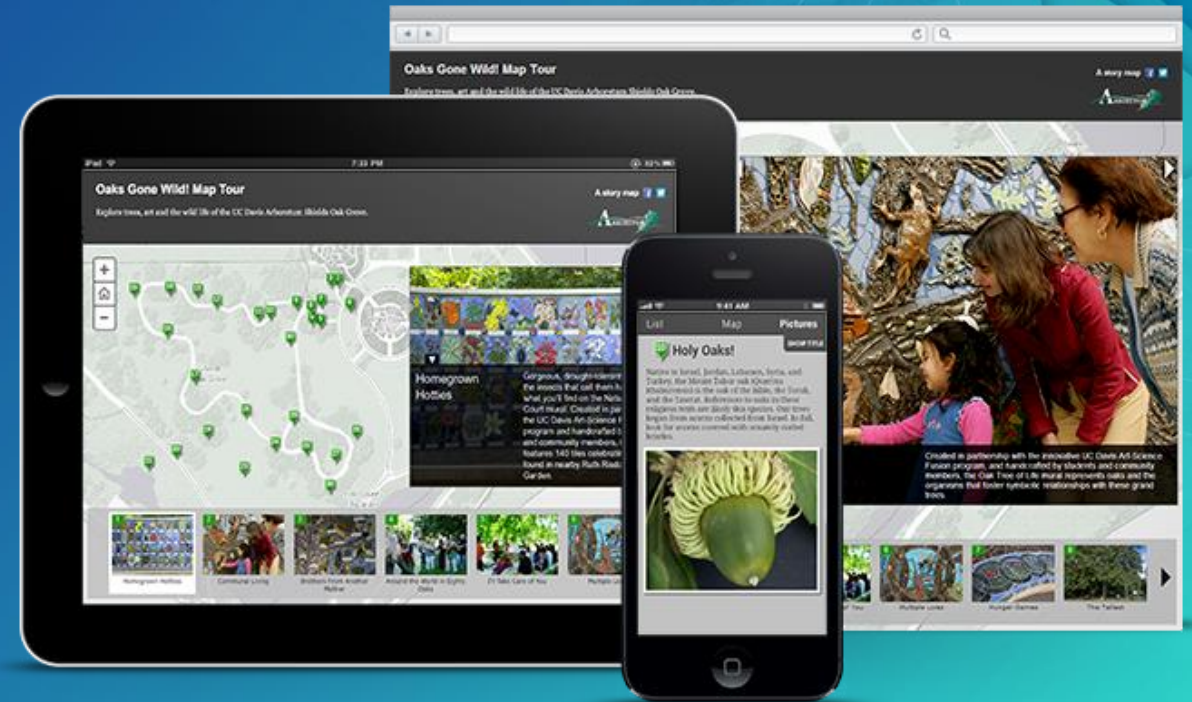
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Story Maps

Interpretive tour applications for all gardens

- Share educational and interpretive information with garden visitors
- Combines tour stop map with text and multimedia
- Part of ArcGIS Online or can be hosted on your own server
- ArcGIS Online option includes easy to use application builder



Oaks Gone Wild! Map Tour
Explore trees, art and the wild life of the UC Davis Arboretum Shields Oak Grove.

A story map  



Communal Living

Shields Oak Grove

Communal Living

Created in partnership with the innovative UC Davis Art-Science Fusion program, and handcrafted by students and community members, the Oak Tree of Life mural represents oaks and the organisms that foster symbiotic relationships with these grand trees.

1 Homegrown Hotties
2 Communal Living
3 Brothers From Another Mother
4 Around the World in Eighty Oaks
5 I'll Take Care of You
6 Multiple Lives
7 Hunger Games
8 The Tallest

Story Map Demonstration

What's Coming

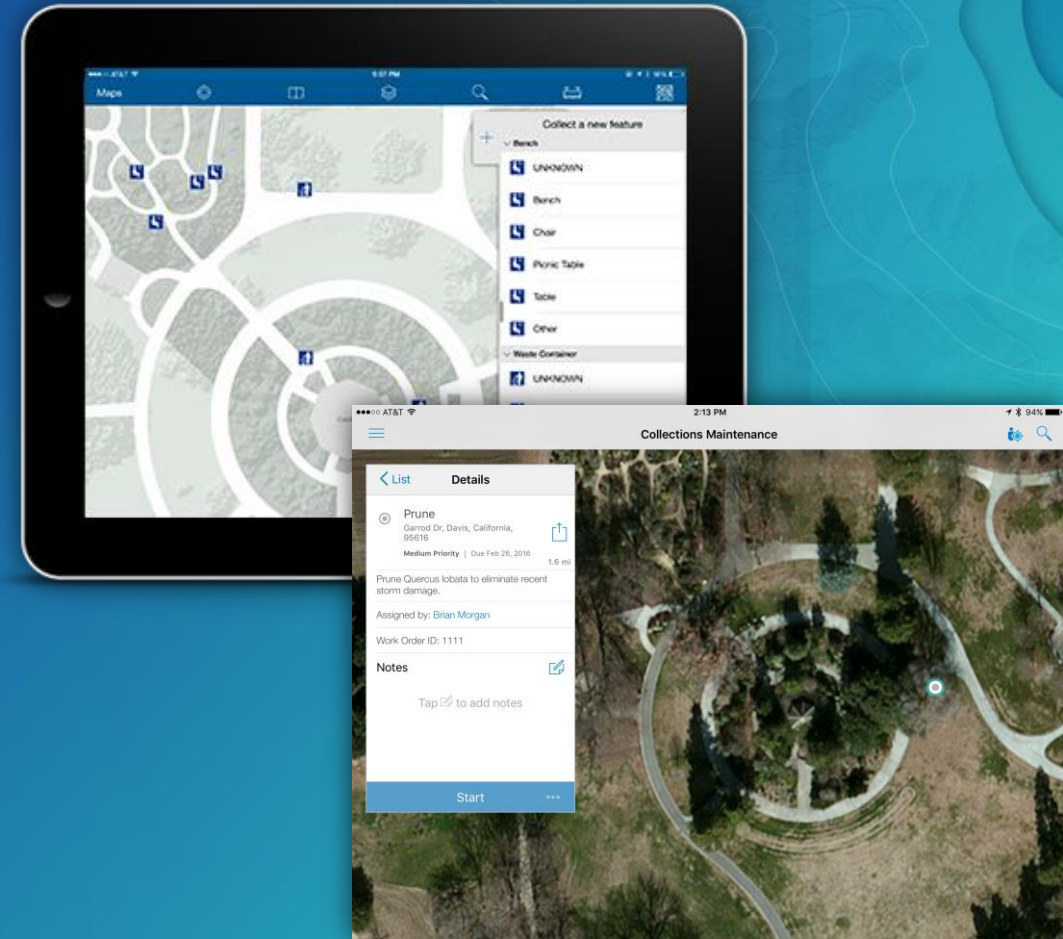
Increasing value across the entire organization

- **Collections**

- Collection Workforce
- Collection Mapper 3.0
- Collection Editor & Viewer 2.0
- Collection Explorer 2.0
- IrisBG Sync 2.0

- **Facilities**

- Facilities Workforce
- Irrigation Damage Inspection
- Cemetery Plot Finder



Online Resources

Download templates, join the community, and get help with your project

- **ArcGIS for Parks and Gardens**
 - <http://solutions.arcgis.com/parks-gardens>
- **LinkedIn**
 - <http://www.linkedin.com/groups?gid=6544811>
- **Twitter**
 - <https://twitter.com/ArcGISforPG>
- **Alliance for Public Gardens GIS**
 - <http://www.apgg.org>



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THE
SCIENCE
OF
WHERE