

Innovation & Technology GIS



CUPERTINO

WHAT IS GIS?

GEOGRAPHIC INFORMATION SYSTEMS



GIS Core Functions

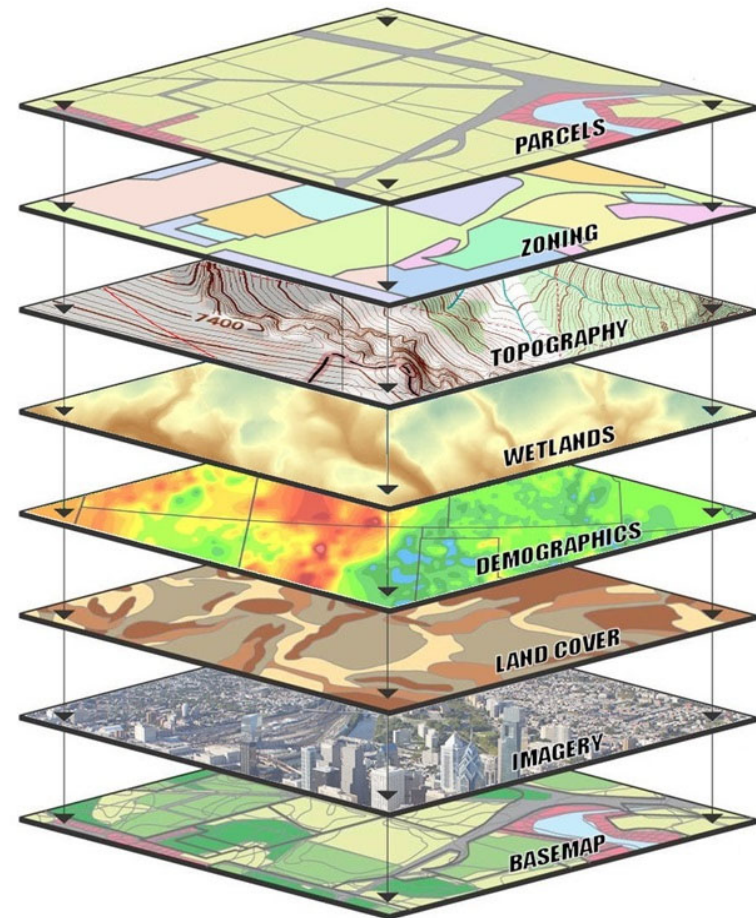
GIS Core Functions

- Increase staff **awareness** of GIS tools & capabilities



GIS Core Functions

- Data
 - Designing
 - Building
 - Maintenance





And
more!

Trees

Sidewalk

Edge of
Pavement

Street
Striping

Median

Roads

Legends

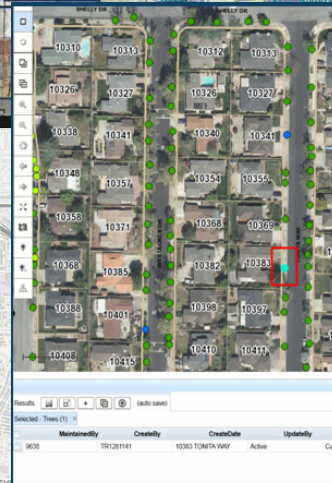
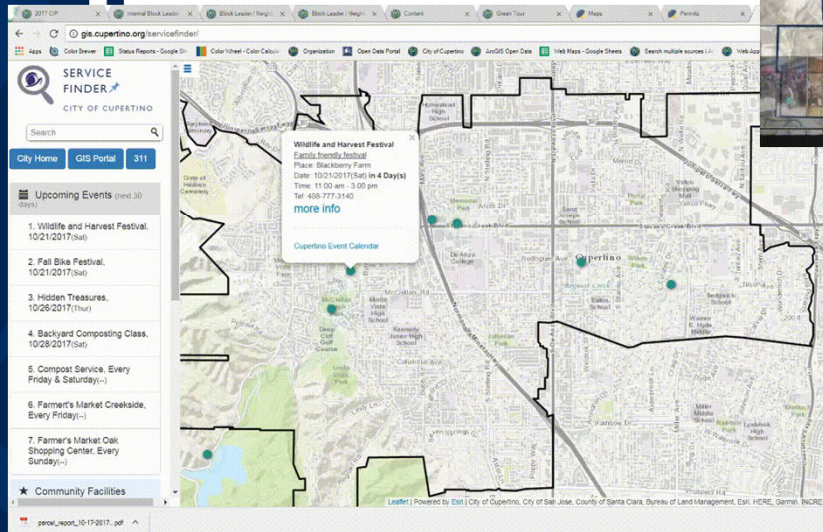
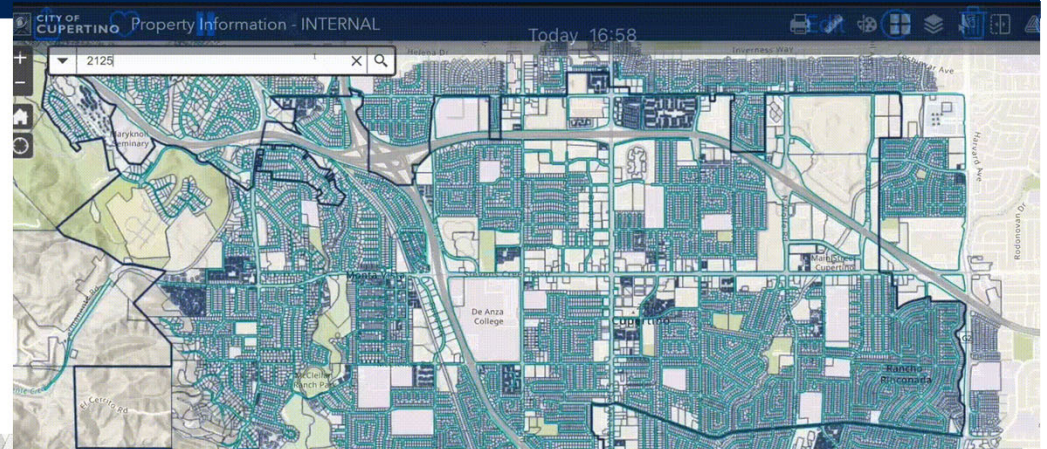
Storm
Drain

Signs

Sign
Supports

GIS Core Functions

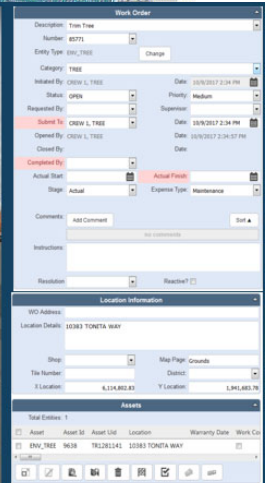
- Service Requests
- App Support



View of Tree on Cityworks



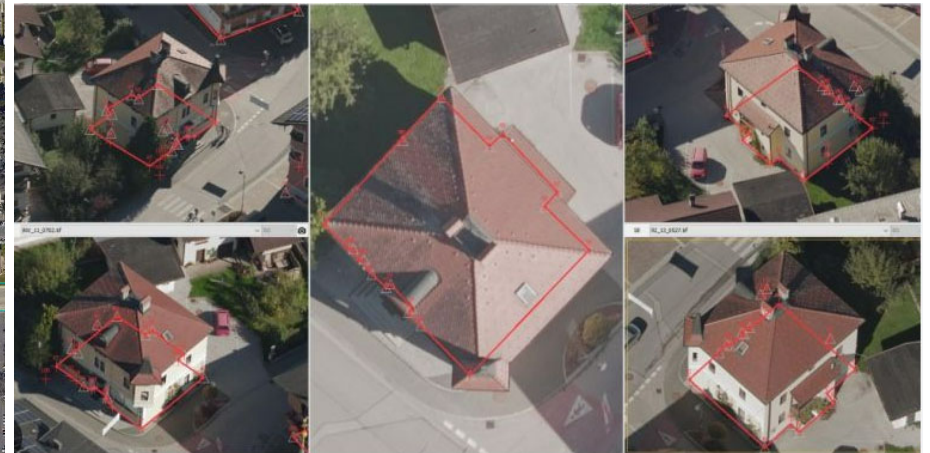
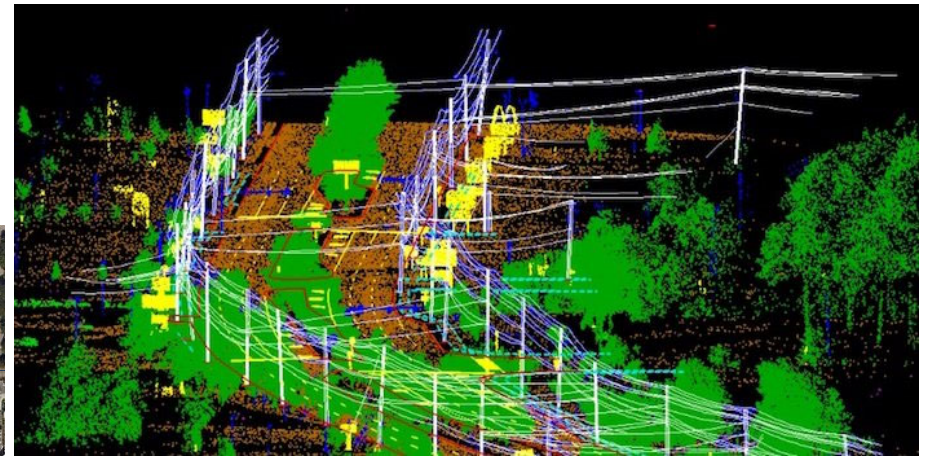
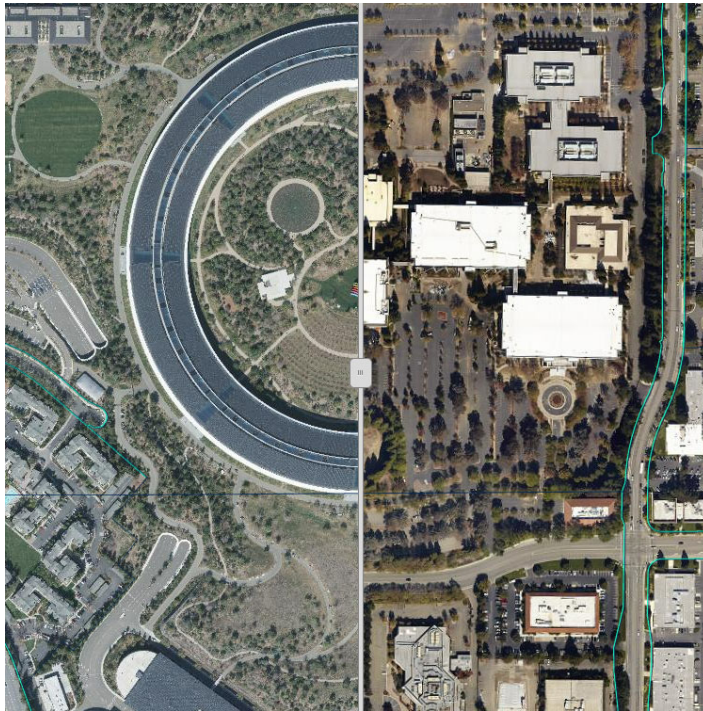
Tree on 10383 Tonita Way



Work history on Tree

GIS Core Functions

- Aerial Acquisition



GIS Core Functions

- Disaster Preparedness

Cupertino Emergency Operations Dashboards

Situational Awareness Feeds

Quick Capture Dashboard

Damage Assessment Dashboard

Windshield Survey Dashb...

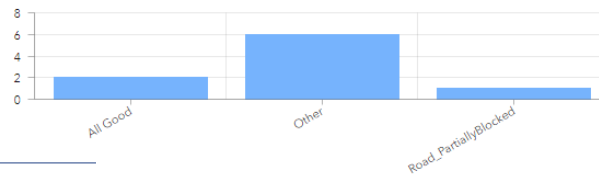
Filter by Incident Type
Click to select a cate...

Filter by Status
Click to Filter by S...

Filter by Creating Acco...
Click to select by Creati...

9

Reports



1:07 ATC-20 Detailed

ATC-20 Detailed Evaluation Safety Assessment Form, City of Cupertino

Inspection

Inspector ID

Affiliation

Inspection Date

Sunday, January 29, 2023

Inspection Time

1:07 PM

Building Description

Building Name

Address

Location

37°17'N 121°53'W ± 7 m

12:38 Windshield Survey

User Name: Terig

Map Trace Path

Structure

Light Moderate Heavy

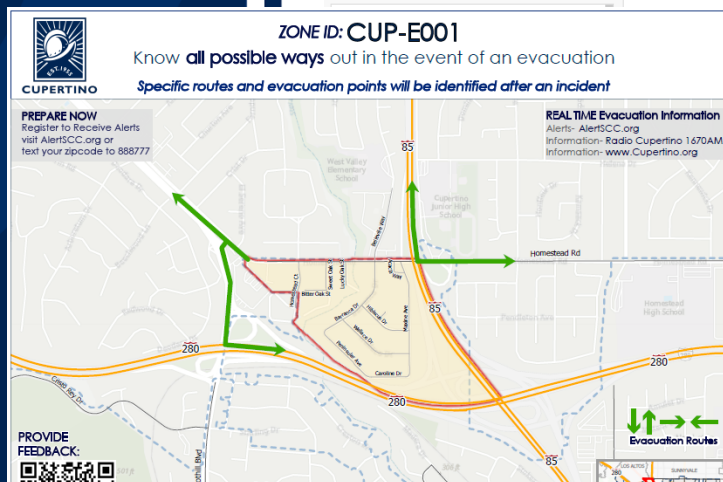
Road

Partially Blocked Fully Blocked

Hazard

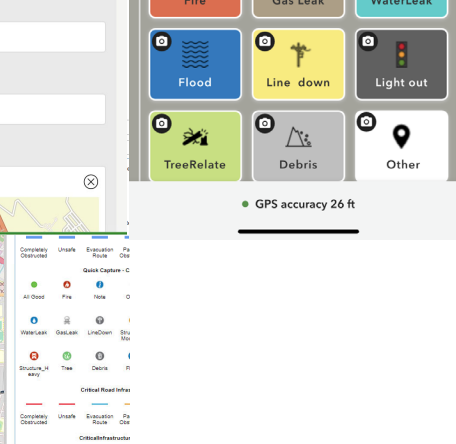
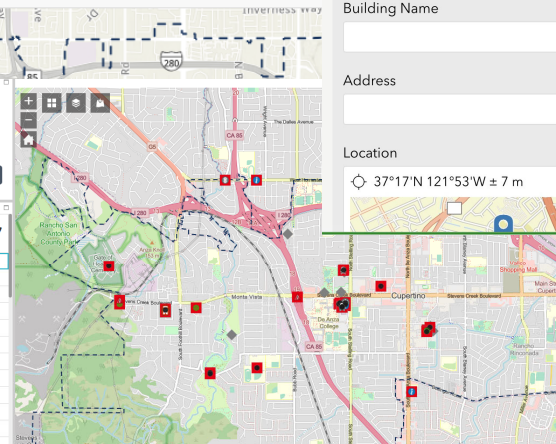
Fire Gas Leak WaterLeak Flood Line down Light out TreeRelate Debris Other

GPS accuracy 26 ft



Quick Capture - Category 67

1/7/2023, 4:16 PM - Submitted - All Good
1/7/2023, 12:44 PM - Submitted - Other
1/6/2023, 3:43 PM - Submitted - All Good
1/5/2023, 11:03 AM - Submitted - All Good
1/5/2023, 10:25 AM - Submitted - Other
1/5/2023, 10:22 AM - Submitted - Other
1/5/2023, 8:16 AM - Submitted - Road_PartiallyBlocked
1/1/2023, 5:07 PM - Submitted - Other
12/20/2022, 9:19 AM - Submitted - Road_PartiallyBlocked
11/12/2022, 4:05 PM - Submitted - Structure_Heavy
11/12/2022, 9:54 AM - Submitted - Structure_Light
11/12/2022, 9:54 AM - Submitted - Tree

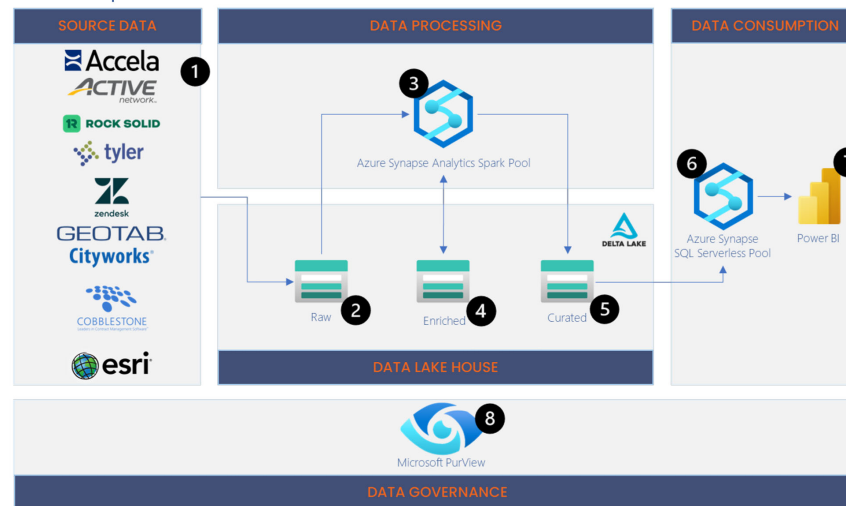


FY23 Projects

FY23 Projects

- Move to Enterprise GIS
- Business Process Automation
- Data Warehouse

2. Conceptual Solution Architecture:



The screenshot shows an IT portal with a dark blue header. The header contains a gear icon, the text 'IT', and links for 'Home', 'IT Support Request', and 'IT Policies'. Below the header is a navigation bar with '+ New', 'Share', 'Export', and 'Automate' options. The main content area is titled 'Business Processes to Digitize' and includes a search bar and a list of items with their status and counts:

- > Form Name ↑ ↓
- > Status : Complete (33)
- > Status : In Development (5)
- > Status : New Update Requested (2)
- > Status : No longer need to digitize (2)
- > Status : Not Started (20)
- > Status : On Hold (2)

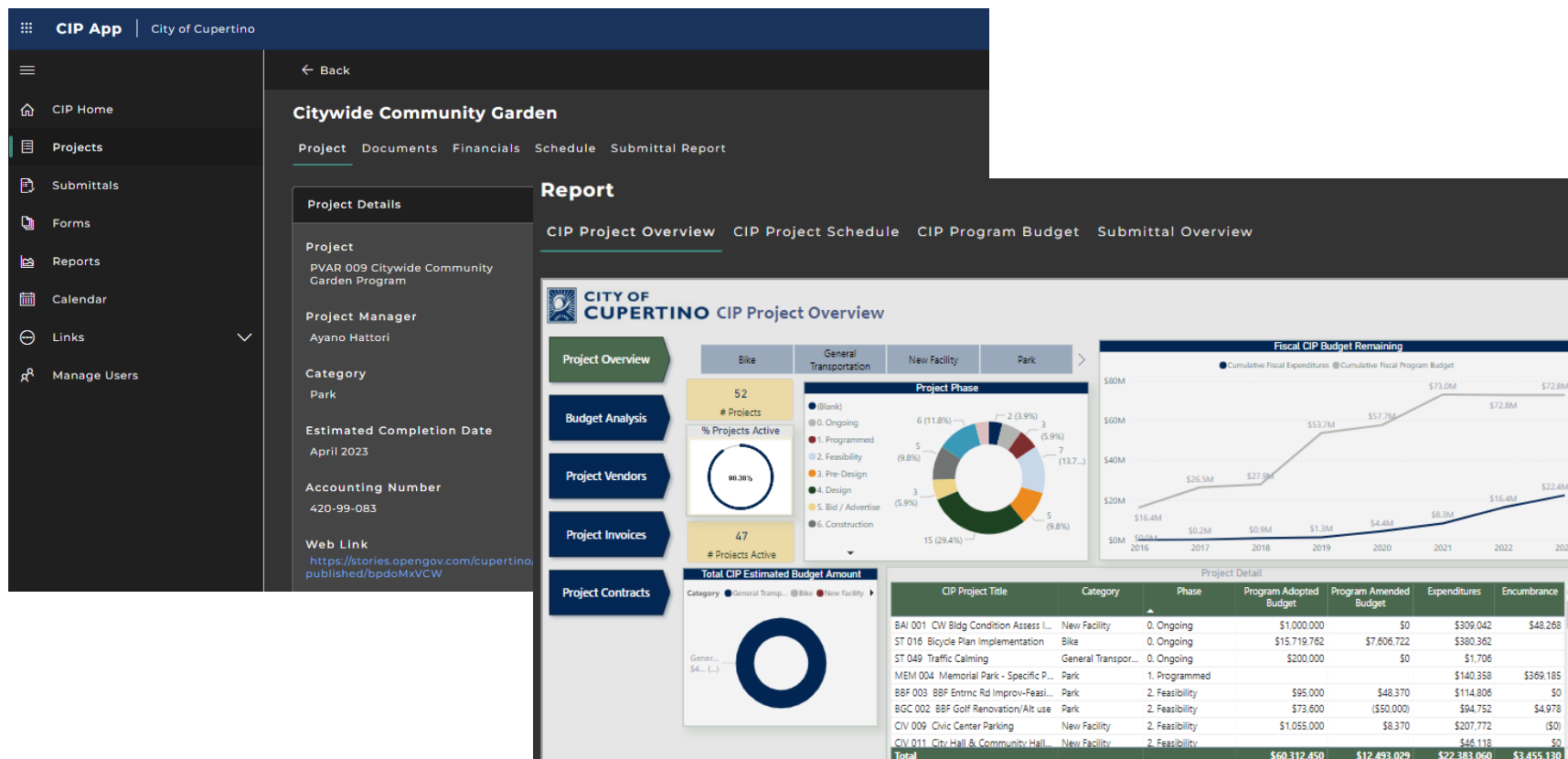
FY22 Admin Projects

- Laserfiche Roadmap

[illegible]

FY23 Projects

- CIP Management System



FY23 Projects

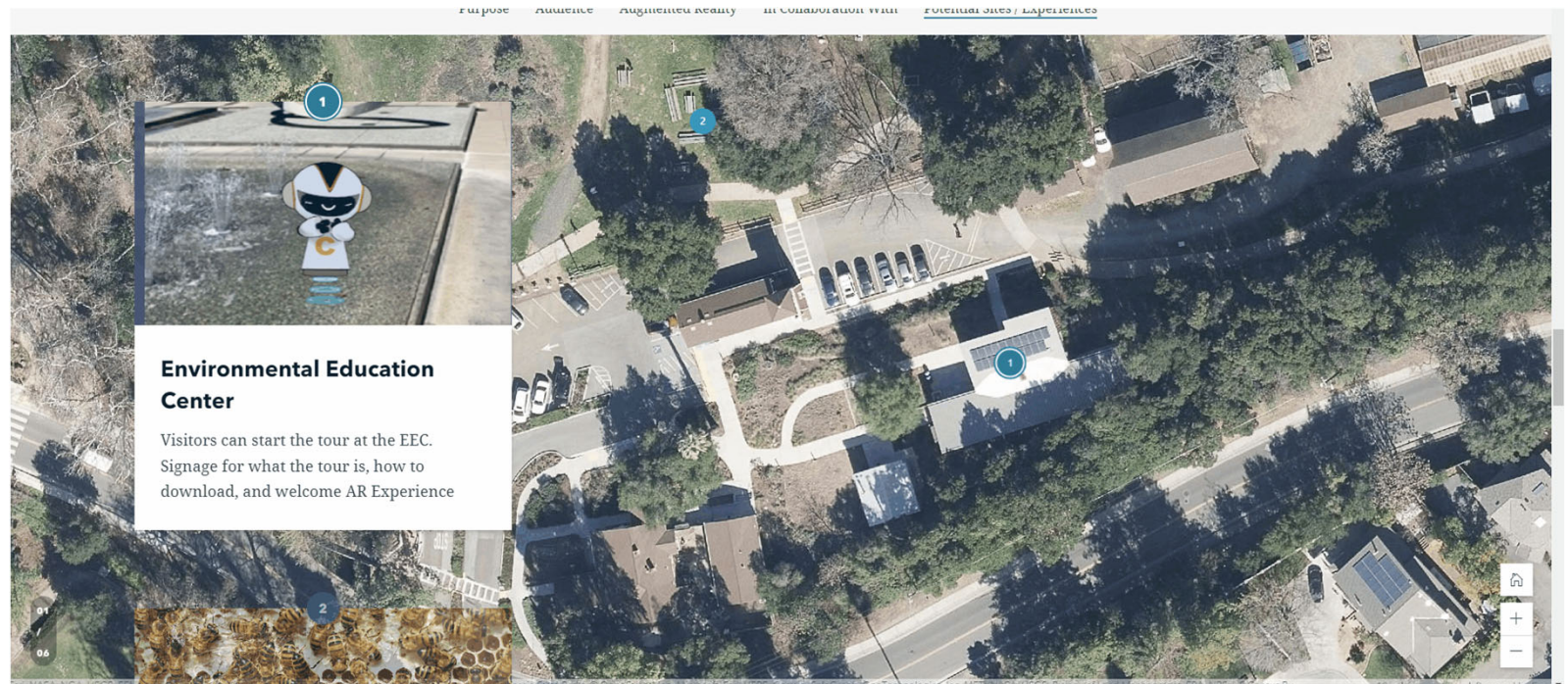
Augmented Reality (AR) Tour of McClellan Ranch

- Using AR to show unique features of the park
- Educational games for school-aged children and parents
- Collaborative effort between City of Cupertino, Balance Studios, and various groups at McClellan Ranch



FY23 Projects

Augmented Reality (AR) Tour of McClellan Ranch



FY23 Projects

Drone Program Goals

- Continue Staff Training
- Increase Awareness of Program
- Procedures for Point Cloud and Contour Creation
- Detailed Facility Flyovers





FY23 Projects

- Streetlight Conversion StoryMap
- Aerial
- GeoTab Keyless Entry
- Telematics Expansion
- Cityworks Storeroom Upgrade
- Cityworks Sidewalk Revamp
- Crisis Incident Management System



Thank you

Questions?