



City Council Presentation

# Urban Forest Management Plan

April 18, 2023



- ❖ UFMP Goals & Supporting Studies
- ❖ Project Timeline & Scope
- ❖ Planning Highlights
- ❖ UFMP Vision, Goals, & Actions
- ❖ Next Steps

# Plan Framework: Goals

## **Managing** the Urban Forest Asset

*Industry standards, best practices, resources*

## **Growing** a Sustainable Urban Forest

*Equity, sustainability, resiliency*

## **Strengthening** the Urban Forestry Program

*Efficiencies, coordination, trainings, funding*

## **Preserving** the Urban Forest

*Policies, regulations, enforcement*

## **Community Partnerships**

*Partnerships, programs, outreach, environmental justice*

# CalFire Grant Activities

- Canopy Assessment
- Tree Inventory
- UFMP
- Tree Planting
- Training Program
- Maintenance Plan



	PUBLIC	PRIVATE
CANOPY COVER	1,450 ac (4%)	3,900 ac (9%)
POSSIBLE PLANTING AREA	4,600 ac (11%)	10,300 ac (25%)

- Canopy Assessment: Learn about the canopy cover and opportunities in your neighborhood!

# CalFire Grant Activities

## Example: Census Block Groups with low tree canopy cover and where trees could address urban heat and energy conservation

HOME HUB CANOPY DATA SUPPORT

TREEPLOTTER INVENTORY

REQUEST OFFLINE ADD MOVE LOG OUT

VIEW PLAN GROW

Use the slider bars below to make maps of urban tree canopy, possible planting area, and other land cover types.

RESET VIEW RESET ALL EXPORT

Select a Geography

Census Block Groups

Urban Tree Canopy %

0 33

0 7 13 20 26 33

Average: 10

Total Possible Planting Area %

0 88

0 18 35 53 71 88

Average: 30

Options

Disable Info Tip

CLOSE CANOPY

Union City

Newark

East Palo Alto

MILPITAS

San Francisco Bay (estuarine)

2 mi

LEGEND

No Filters Applied

Urban Tree Canopy %

33

16

0

Visit [www.fremont.gov/government/departments/urban-forestry/tree-inventory-value](http://www.fremont.gov/government/departments/urban-forestry/tree-inventory-value)

Tiles courtesy of [cartocdn.com](http://cartocdn.com)

# CalFire Grant Activities

Example: Census Block Groups with low tree canopy cover and where trees could address urban heat and energy conservation

HOME HUB CANOPY DATA SUPPORT

TREEPLOTTER INVENTORY

REQUEST OFFLINE ADD MOVE LOG OUT

VIEW PLAN GROW

Use the slider bars below to make maps of urban tree canopy, possible planting area, and other land cover types.

RESET VIEW RESET ALL EXPORT

Select a Geography

Census Block Groups

Urban Tree Canopy %

0 33

0 7 13 20 26 33

Average: 10

Total Possible Planting Area %

0 88

0 18 35 53 71 88

Average: 30

Options

Disable Info Tip

CLOSE CANOPY

Address: 3300 Capitol Ave. Fremont, CA

SEARCH CLEAR RESULTS

Address: 3300 Capitol Ave. Fremont, CA

Urban Tree Canopy %

33 16 0

Census Block Groups: 060014419241

Urban Tree Canopy % 21

Total Possible Planting Area % 8

Zoom To

LEGEND

2000 ft

Visit [www.fremont.gov/government/departments/urban-forestry/tree-inventory-value](http://www.fremont.gov/government/departments/urban-forestry/tree-inventory-value)

Tiles courtesy of [cartocdn.com](http://cartocdn.com)

# CalFire Grant Activities

## Example: Census Block Groups with low tree canopy cover and where trees could address urban heat and energy conservation

Visit [www.fremont.gov/government/departments/urban-forestry/tree-inventory-value](http://www.fremont.gov/government/departments/urban-forestry/tree-inventory-value)

# CalFire Grant Activities

Example: Census Block Groups with low tree canopy cover and where trees could address urban heat and energy conservation

HOME HUB CANOPY DATA SUPPORT

REQUEST OFFLINE ADD MOVE LOG OUT

### ASSUMPTIONS

Select a Geography

Census Block Groups

Target Canopy %  
 Increase Canopy By %

Increase Canopy By %

20%

0% 10 20 30 40 50 60

---

### MODELED TREE CANOPY

Number of Trees to Plant

Plant 5,885 Trees

---

### MODELED ECOSYSTEM BENEFITS

OVERALL

AIR QUALITY

CARBON

Pollutants Removed (lb)  
\$19,195

Carbon Sequestered (lb)  
825,337

CANOPY

Percent Urban Tree Canopy

33

16

0

**Census Block Groups:**  
060014425002

Urban Tree Canopy %	11
Total Possible Planting Area %	16
Hypothetical Canopy	31% <span style="color: green;">■</span>
Trees needed	<u>1,368</u> <span style="color: green;">■</span>

Zoom To

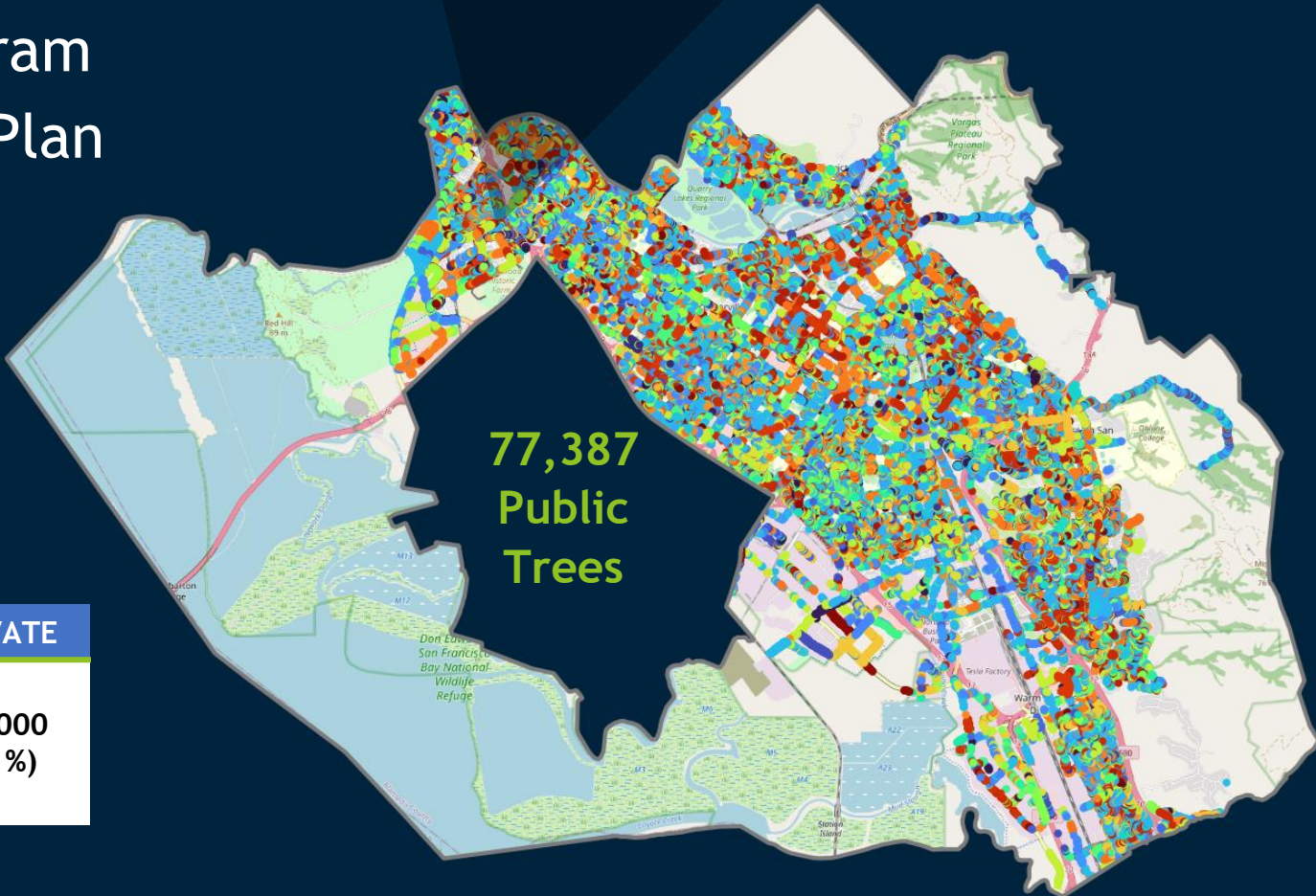
Visit [www.fremont.gov/government/departments/urban-forestry/tree-inventory-value](http://www.fremont.gov/government/departments/urban-forestry/tree-inventory-value)

LEGEND



# CalFire Grant Activities

- Canopy Assessment
- Tree Inventory
- UFMP
- Tree Planting
- Training Program
- Maintenance Plan

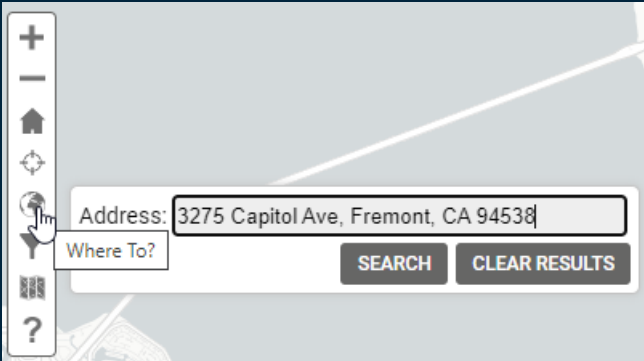


	PUBLIC	PRIVATE
<b># OF PUBLIC TREES TO MAINTAIN</b>	<b>22,000 (29%)</b>	<b>55,000 (71%)</b>

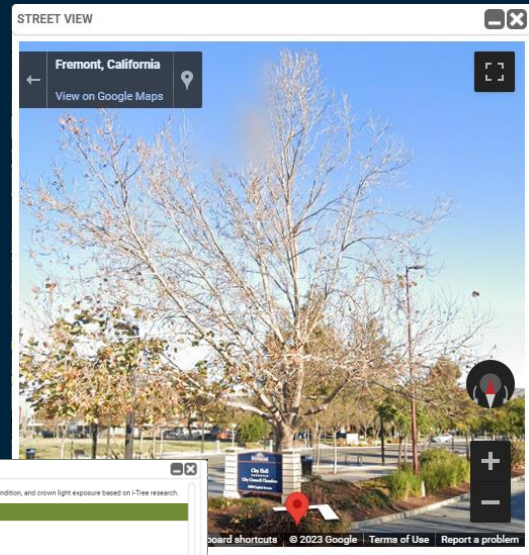
# CalFire Grant Activities

- Tree Inventory: Explore and learn about the public trees in your front yard or neighborhood!

Visit [www.fremont.gov/government/departments/urban-forestry/tree-inventory-value](http://www.fremont.gov/government/departments/urban-forestry/tree-inventory-value)



Pan & zoom the map or type in an address. Let's explore the trees outside of Council Chambers! → →



Tree 103417

Tree	
Common Name	American sycamore
Address	3300 Capitol Avenue
Condition	Fair- 60%
DBH	20
Estimated Dollar Value (\$)	16,904

The "Estimated Dollar Value" is meant to represent an approximate depreciated dollar cost for the tree based solely on its location, species, trunk size, condition, and current replacement estimates factored by data recorded in the most recent inventory capture date. It may fluctuate depending on multiple factors as evaluated by the City Urban Forester.

[DETAILS](#)
[WRS](#)
[ECO-BENEFITS](#)

[DATA TABLE](#)
[STREET VIEW](#)

[SERVICE REQUEST](#)
[REPORT](#)
[SHARE](#)

Learn about the tree's species, size, condition, value, and ecosystem benefits it provides! → →

ECO-BENEFITS

Benefits are only calculated for trees with defined species, DBH, condition, and crown light exposure based on i-Tree research.

OVERALL (ANNUAL)		
Overall Monetary Benefit	\$7.57	

STORMWATER (ANNUAL)		
Stormwater Monetary Benefit	Runoff Avoided	Interception
\$2.60	38.96 (ft³)	251.76 (ft³)

AIR QUALITY (ANNUAL)	
Air Quality Monetary Benefit	Pollutants Removed
\$0.06	2.04 (lbs)

CARBON (ANNUAL)	
Carbon Monetary Benefit	CO <sub>2</sub> Sequestered
\$4.90	210.80 (lbs)

CARBON (LIFETIME)		
Carbon Storage	CO <sub>2</sub> Storage	CO <sub>2</sub> Storage Monetary Benefit
1,062.30 (lbs)	3,895.12 (lbs)	\$90.59

Powered by i-Tree

# Urban Forest Benefits



Wildlife

Pollinators

Climate Mitigation

Boosts Local Economies

Air Quality

Property Values

Aesthetics

Well-being

Shade

Water Runoff & Quality

Traffic Calming

## PUBLIC TREE BENEFITS & SERVICES

<b>\$6.9M</b>	<b>Total annual ecosystem value</b>
<b>\$89</b>	<b>Annual benefits per tree</b>
<b>\$28</b>	<b>Annual benefits per capita</b>
<b>\$492M</b>	<b>Estimated dollar value</b>
<b>\$1 : \$7.44</b>	<b>Cost-benefit ratio</b>

## Project Timeline

**RESEARCH  
&  
ANALYSIS**

**March 2021 -  
March 2022**

**OUTREACH  
&  
ENGAGEMENT**

**May 2021 -  
March 2022**

**STRATEGIES,  
DRAFTS, &  
FINAL PLAN**

**March 2022 -  
April 2023**

# Engagement to Develop the Plan

## INTERNAL ENGAGEMENT

City Project Team: 10 staff, 3 Depts

25 staff, 4 departments, 8 divisions

Parks Master Plan & CAP 2.0 collaboration

Recreation Commission presentations

## FREMONT UFMP



Shared Vision

Streamline Urban Forestry

Address Shared Priorities

Achieve Common Goals

## EXTERNAL ENGAGEMENT








Project website, social media, press releases

Public kickoff, Meet & Greet (62 attendees)

2 polls, 1 statistical survey, 2,000 mailings

Public comment period, Working Group mtg

# Public Comment Period & Plan Revision

Status of Grant projects		Shared at Recreation Commission meetings
Need to plant more trees		Canopy goals, plantings scale up
Expedite hiring the Urban Forestry Manager		Posted and in progress
Partnerships critical to success		Working Group, Non-profits, UFMP actions
Need to explore funding opportunities		UFMP funding section, grants, Inflation Reduction Act \$
Tree-related ordinances need attention		Tree Manuals, long-term UFMP action
Changes to the Recommended Tree List		Revised in updated UFMP

# Planning Highlights: Strengths & Opportunities

## THE URBAN FOREST

510 unique species  
\$6.9 million in benefits  
\$7.44 return on investment

## THE PROGRAMS

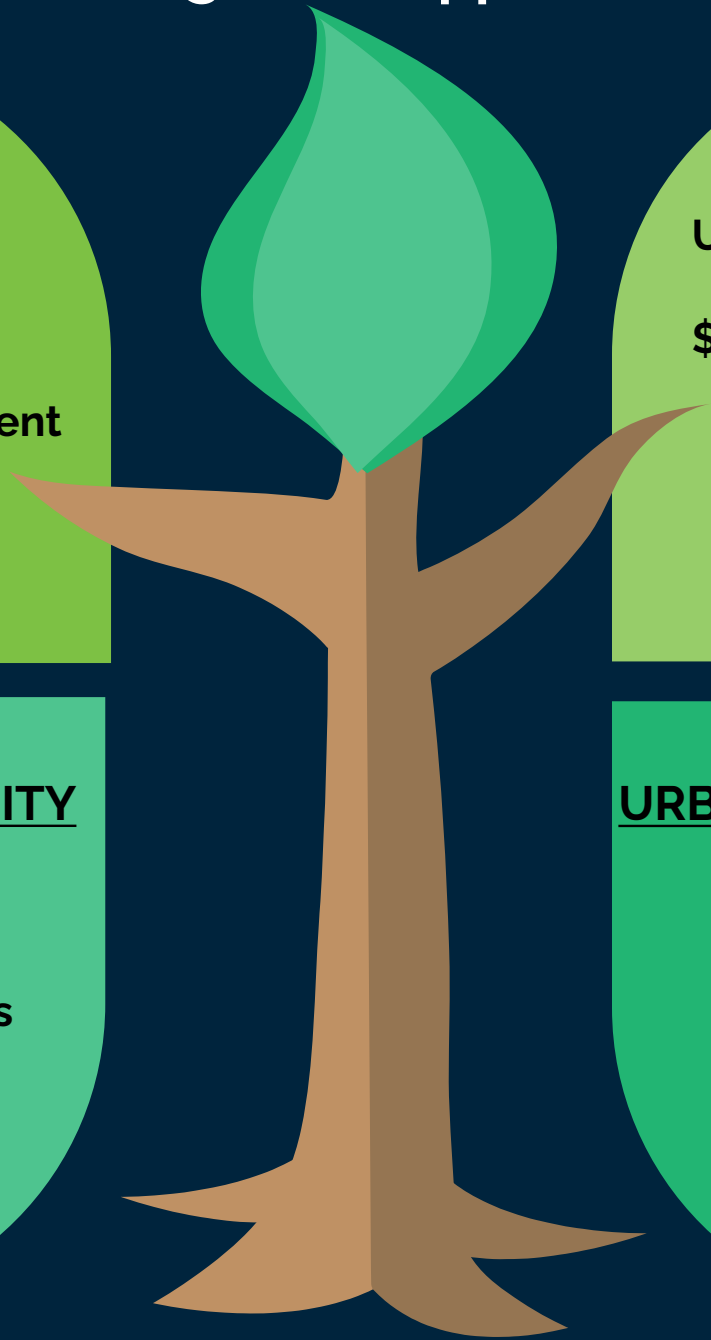
Urban Forestry Program  
\$1.7M in grant projects

## THE COMMUNITY

Local partners  
Views trees as assets  
Tree City USA

## URBAN FOREST PLAN

City's first UFMP  
Shared vision  
Supported goals





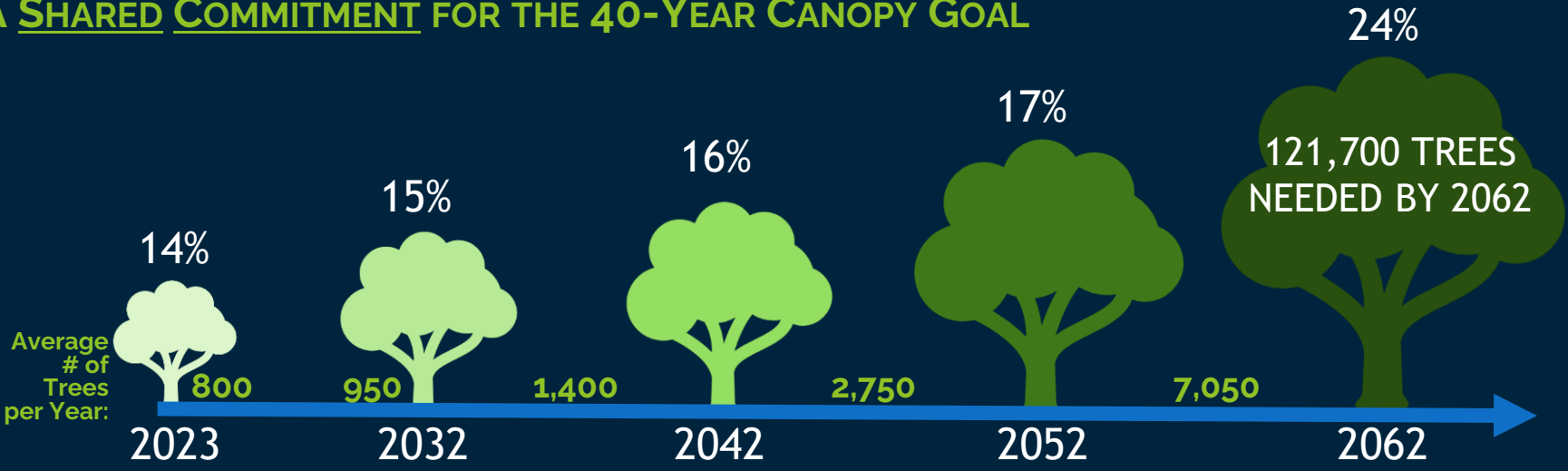
# Plan Framework

## UFMP VISION

“With a healthy, thriving, and sustainable urban forest, Fremont’s trees will be thoughtfully managed in a way to maximize a range of public benefits, including a thriving ecosystem, a vibrant economy, and a livable community shared by all.”



## A SHARED COMMITMENT FOR THE 40-YEAR CANOPY GOAL



# Plan Framework: Goals

## **Managing** the Urban Forest Asset

*Industry standards, best practices, resources*

## **Growing** a Sustainable Urban Forest

*Equity, sustainability, resiliency*

## **Strengthening** the Urban Forestry Program

*Efficiencies, coordination, trainings, funding*

## **Preserving** the Urban Forest

*Policies, regulations, enforcement*

## **Community Partnerships**

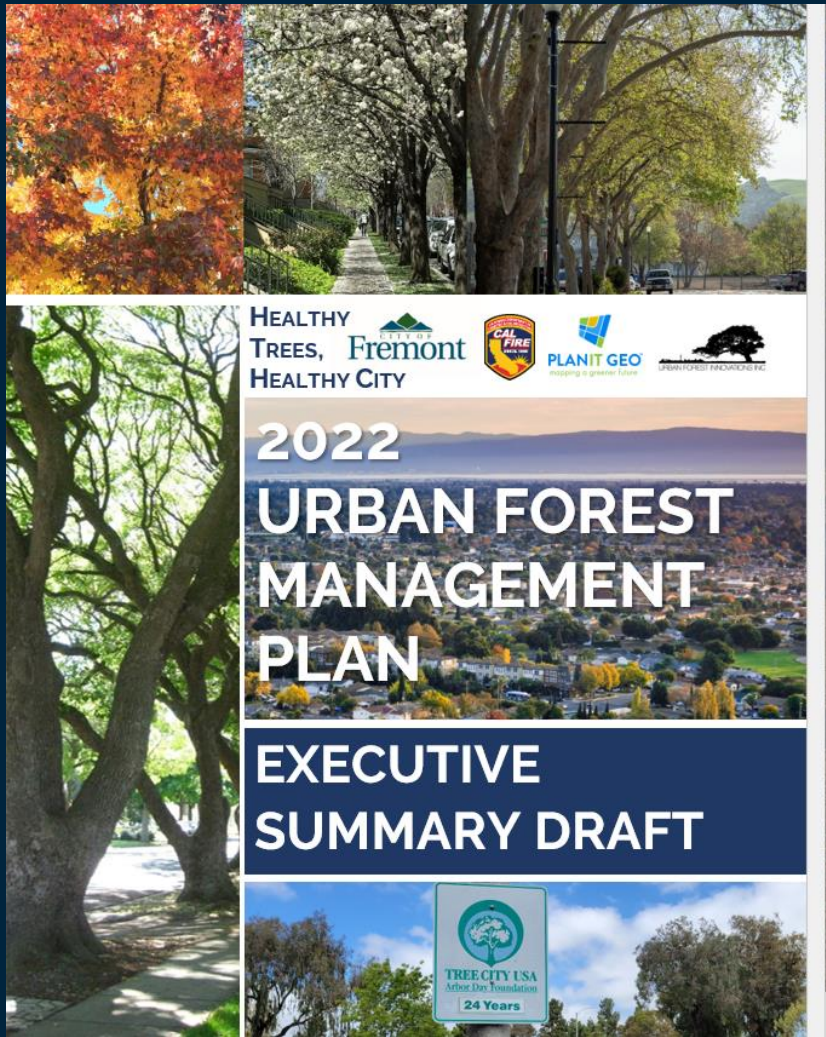
*Partnerships, programs, outreach, environmental justice*

# Plan Framework: Priority Actions

- ❖ Council **adoption** of the UFMP
- ❖ Citywide Tree **Maintenance** Plan
- ❖ **Community** partnerships & engagement
- ❖ Ongoing & future **funding**
- ❖ Inform **climate action** urban forest milestones
- ❖ Apply an **adaptive** management approach
- ❖ Trees for **climate** change, **equity**, and **sustainability**

# Completed & Next Steps

- Draft UFMP
- Public Comment to Tree Advisory Working Group
- Recreation Commission
- City Council



## Recommendations:

1. Find that the Urban Forest Management Plan is exempt from the requirements of CEQA per guidelines stated in the Staff report.
2. Adopt a resolution adopting the Urban Forest Management Plan.



City Council Presentation

# Urban Forest Management Plan

April 18, 2023

