



# **2017 Bicycle/Pedestrian Master Plan Update**

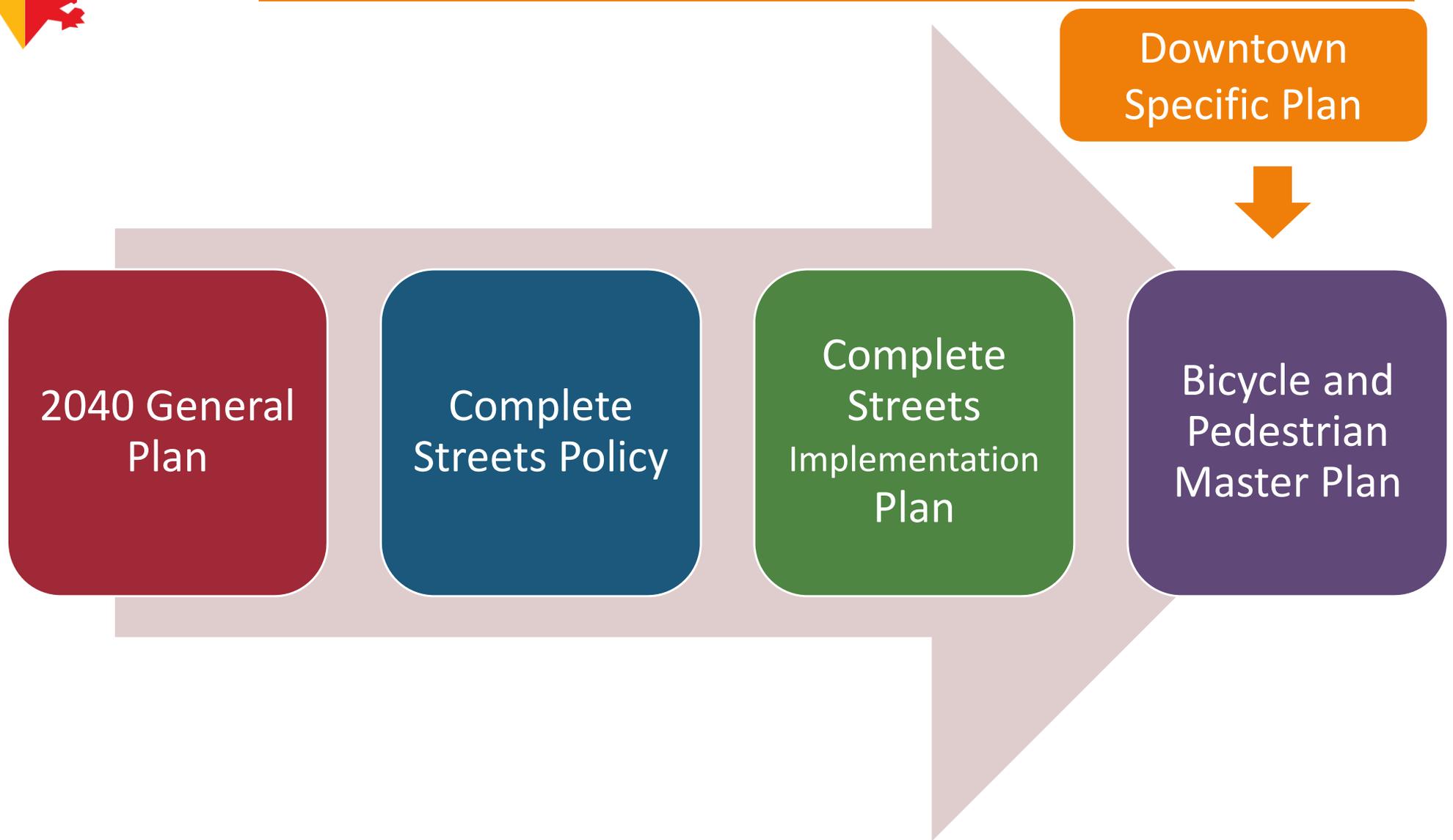
## **Sustainability Discussion**

**Presentation  
3.13.2017**

**Fred Kelley  
Transportation Manager  
PUBLIC WORKS**

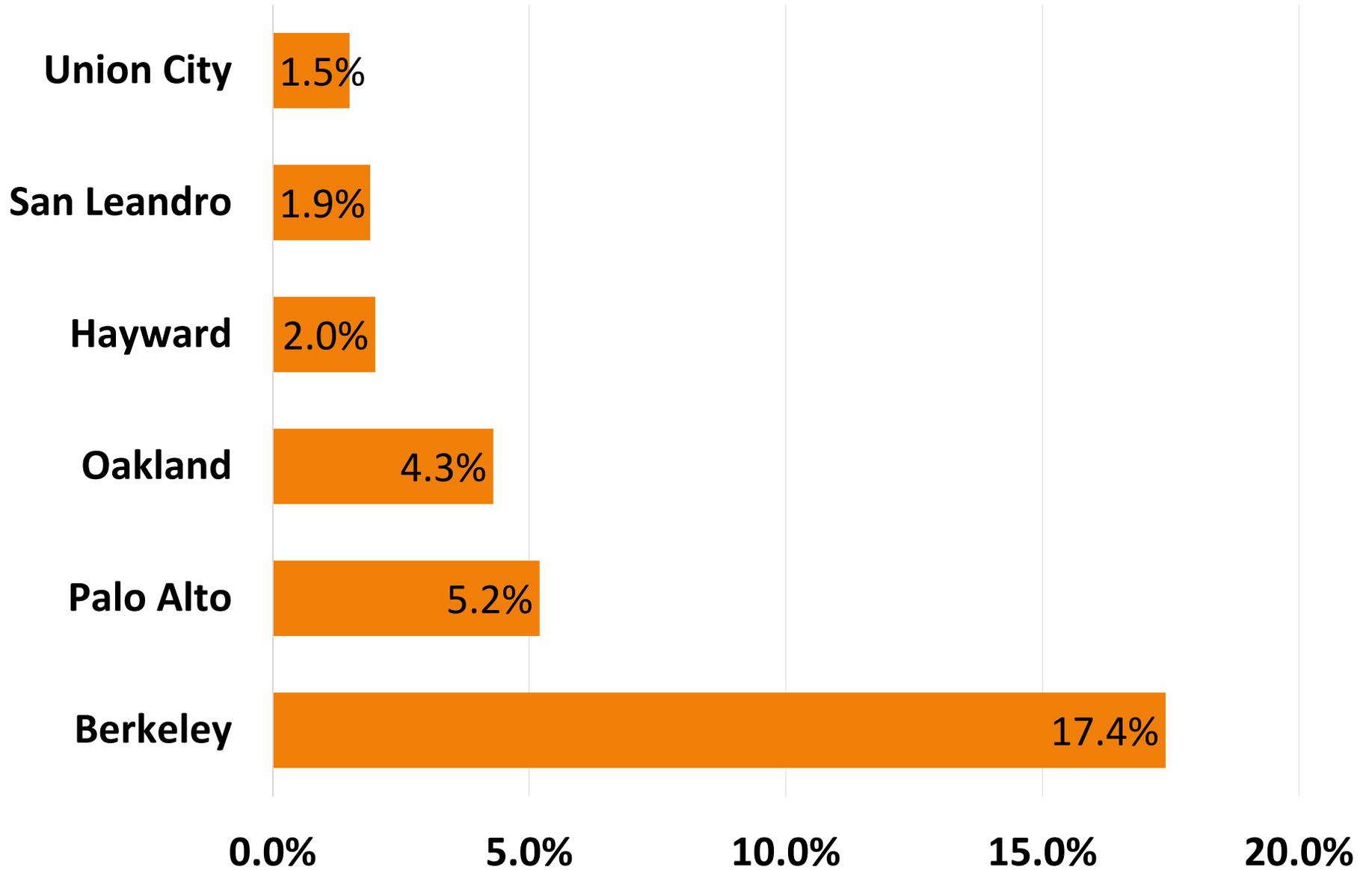


# Plans and Policies

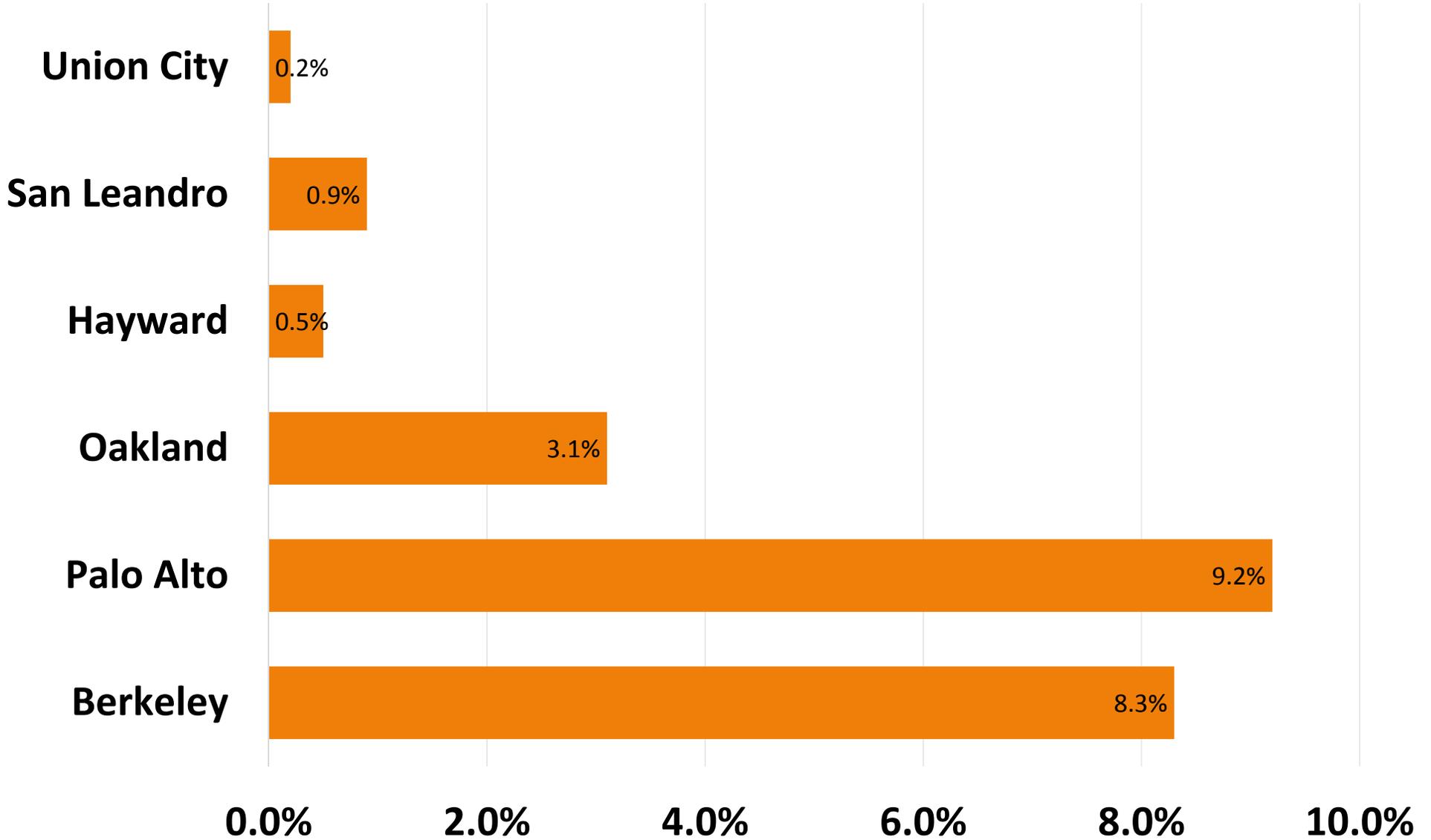




## Percentage Walk to Work



### Percentage Bike to Work



# Bike Facilities Classification



Class I Bike Path



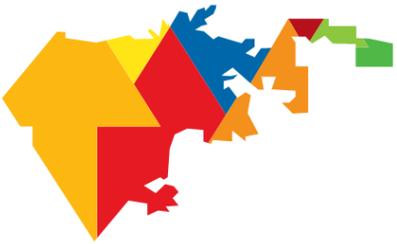
Class II Bike Lanes



Class III Bike Route

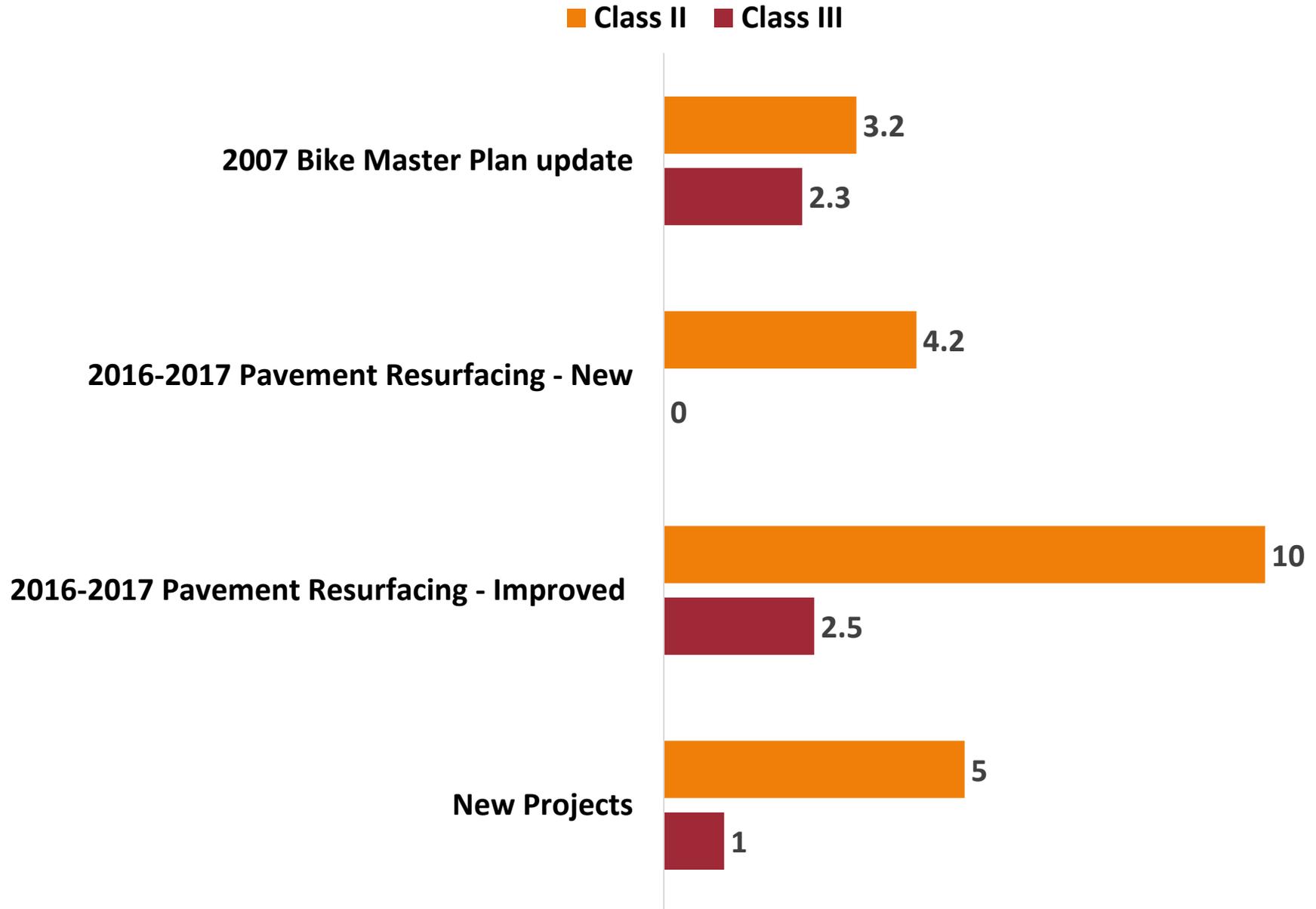


Class IV Protected  
Bike Lane – On Street



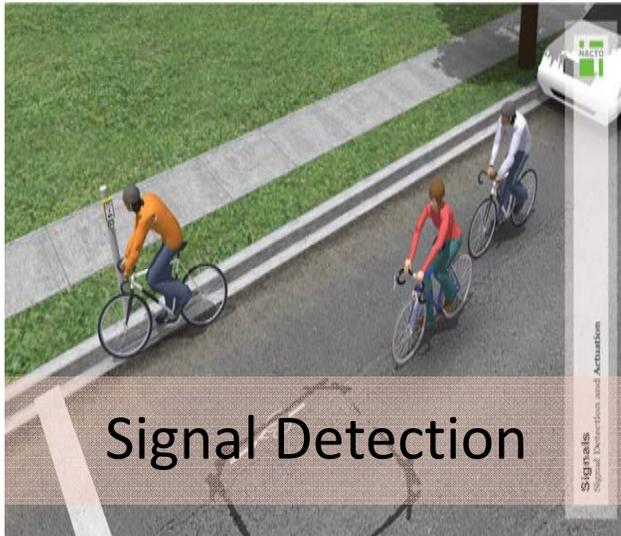
# Bikeways Installed To Date

(in miles)





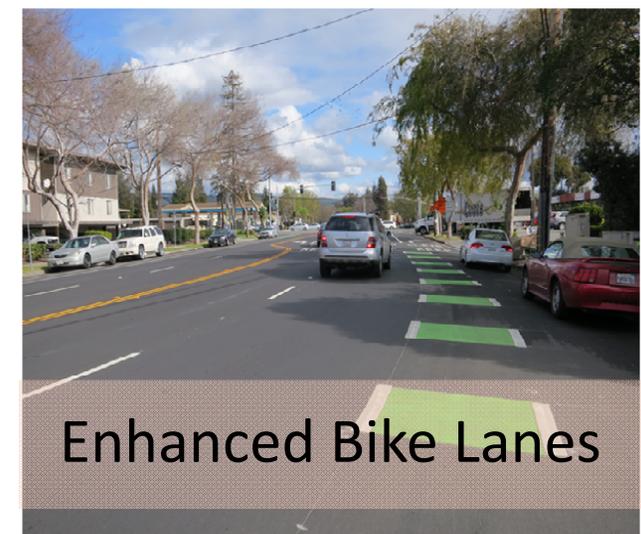
# Bike Toolbox



Signage Improvements



Bike Parking



Enhanced Bike Lanes

# Pedestrian Facilities



Sidewalk



Pedestrian Lighting



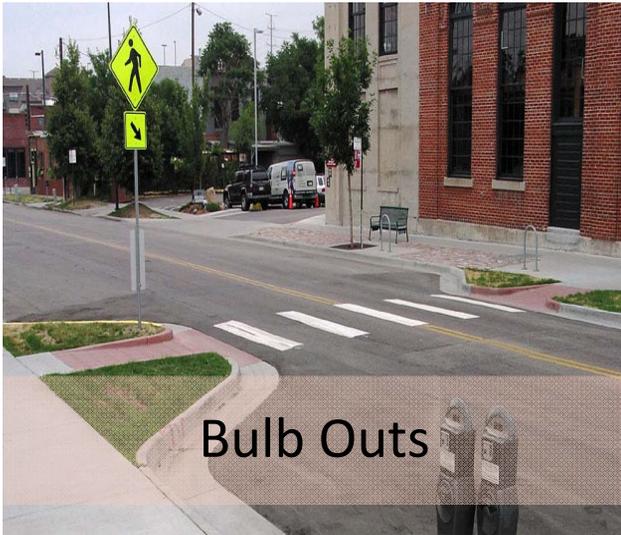
Short Crossing Distances



Enhanced Crossings



# Pedestrian Toolbox



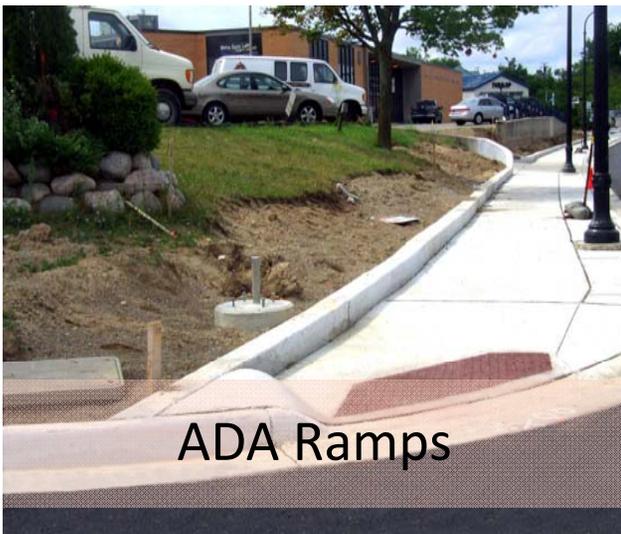
Bulb Outs



Median Refuge Island



Street Trees/Parking



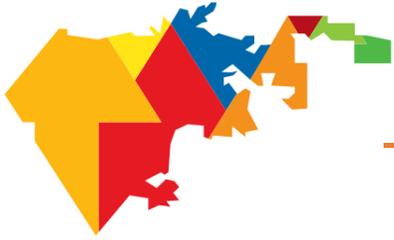
ADA Ramps



High Visibility Crosswalks

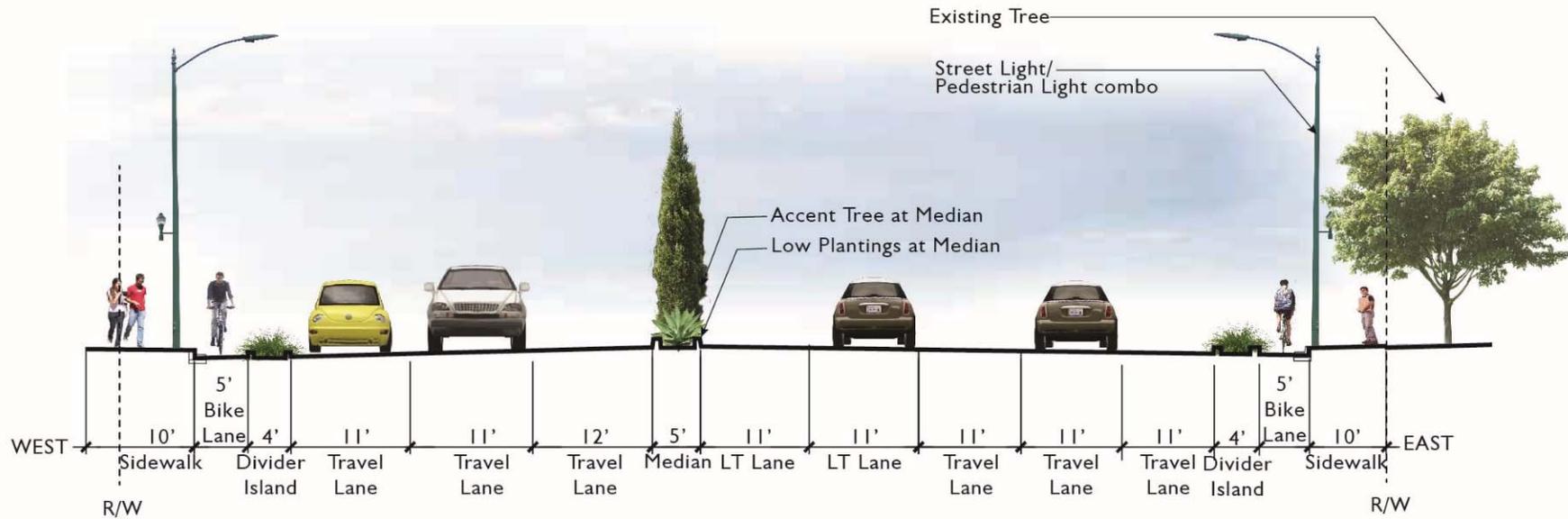


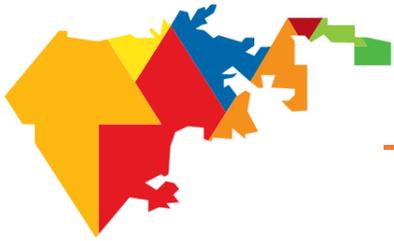
Rapid Flashing Beacon



# Upcoming Projects

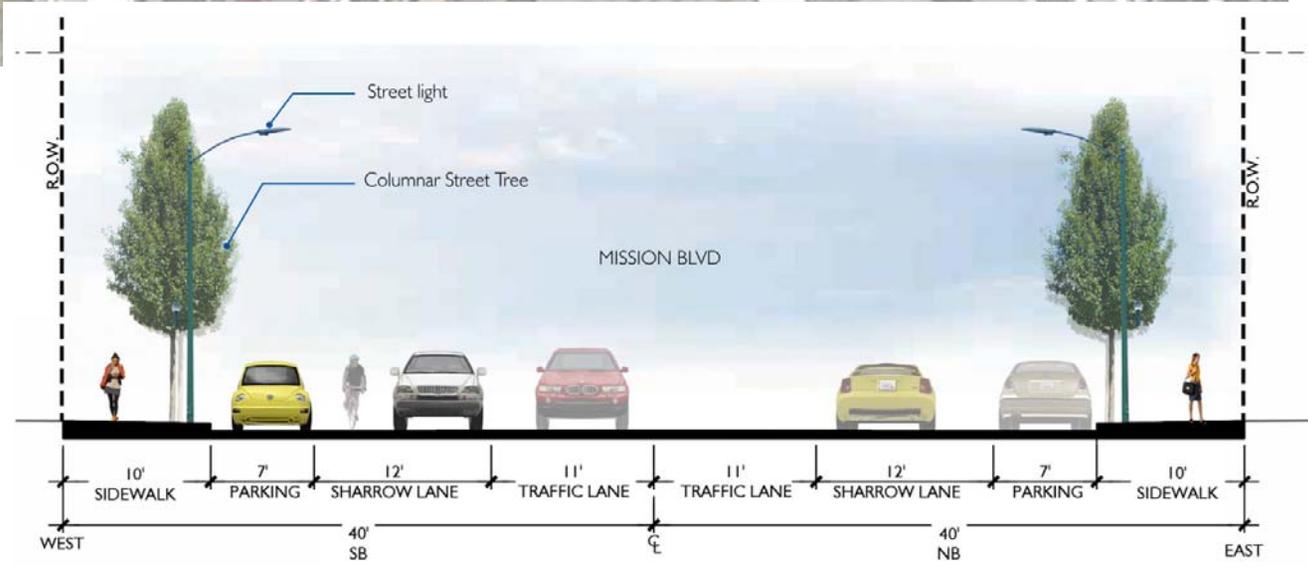
## Mission Blvd Phase II





# Upcoming Projects

## Mission Blvd Phase III



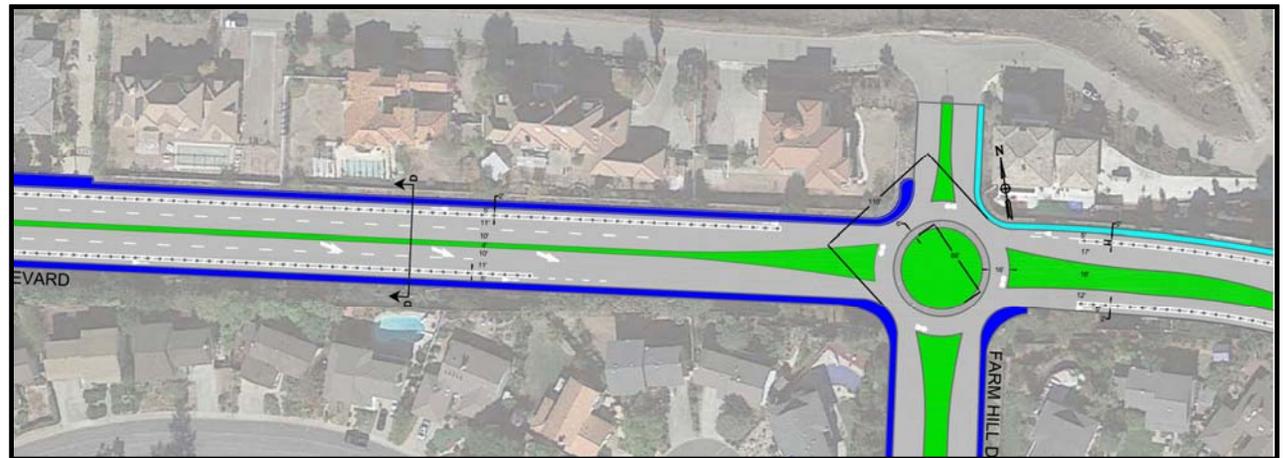


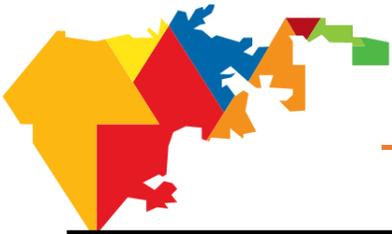
# Upcoming Projects

## Hayward Blvd



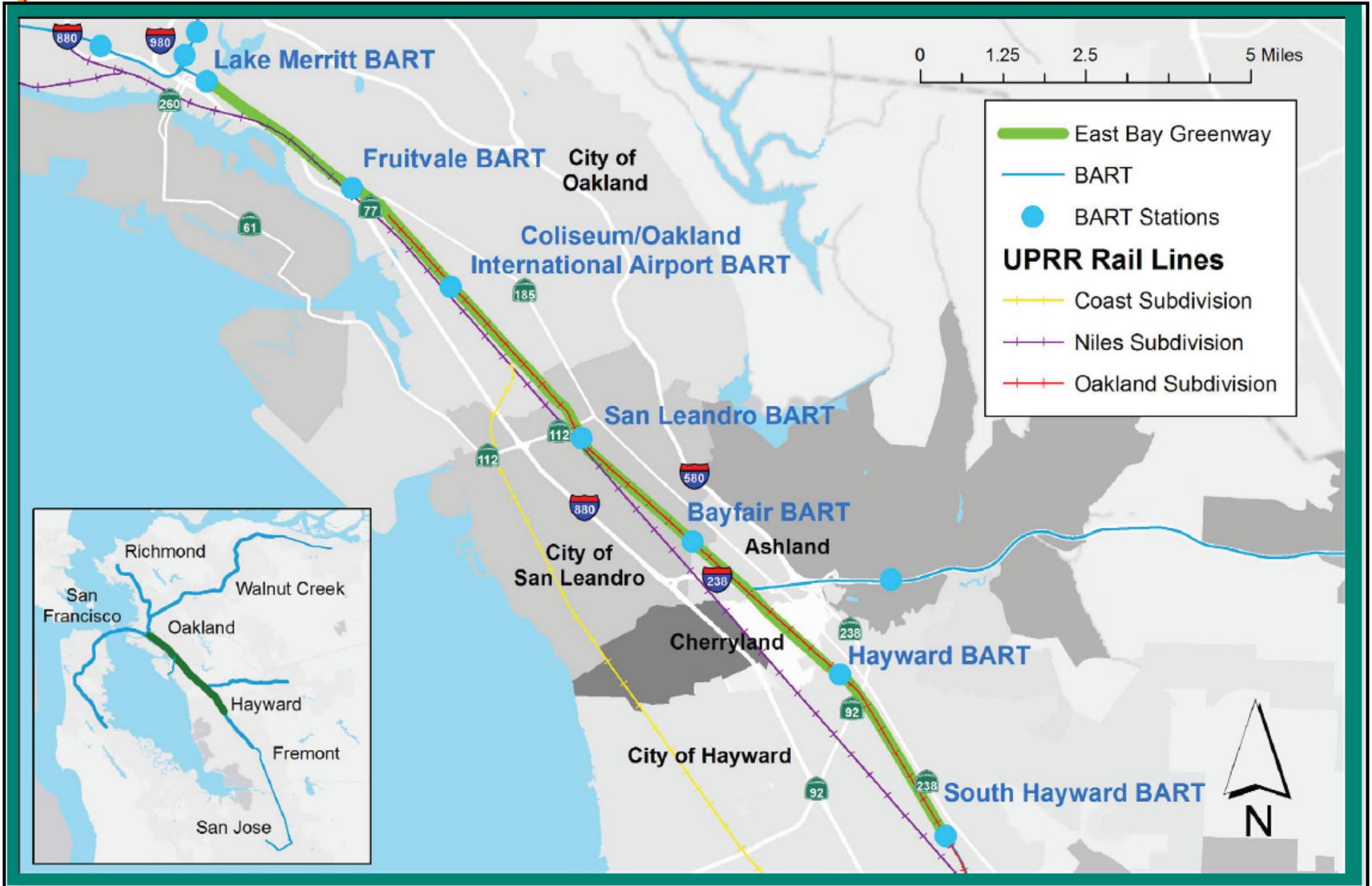
- Protected Bicycle Lanes
- Narrower Travel Lanes
- High Visibility Crosswalks
- Pedestrian Connectivity





# Upcoming Projects

## East Bay Greenway

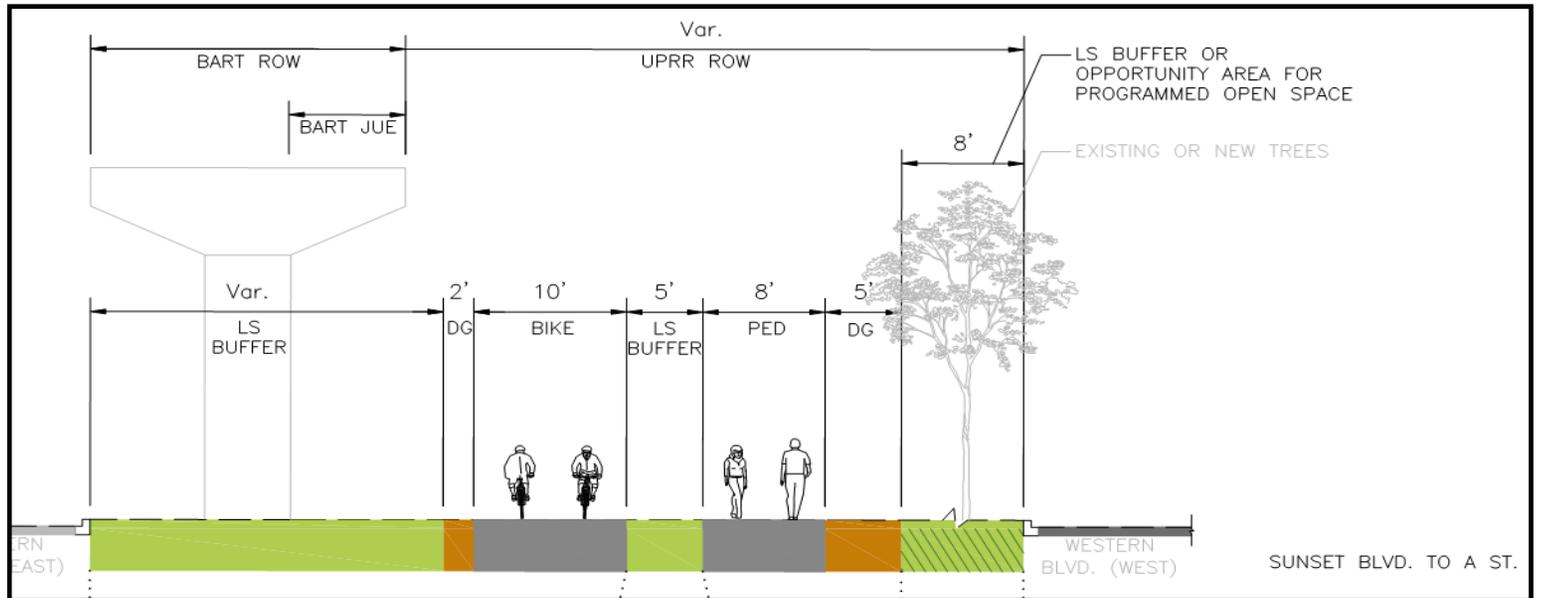




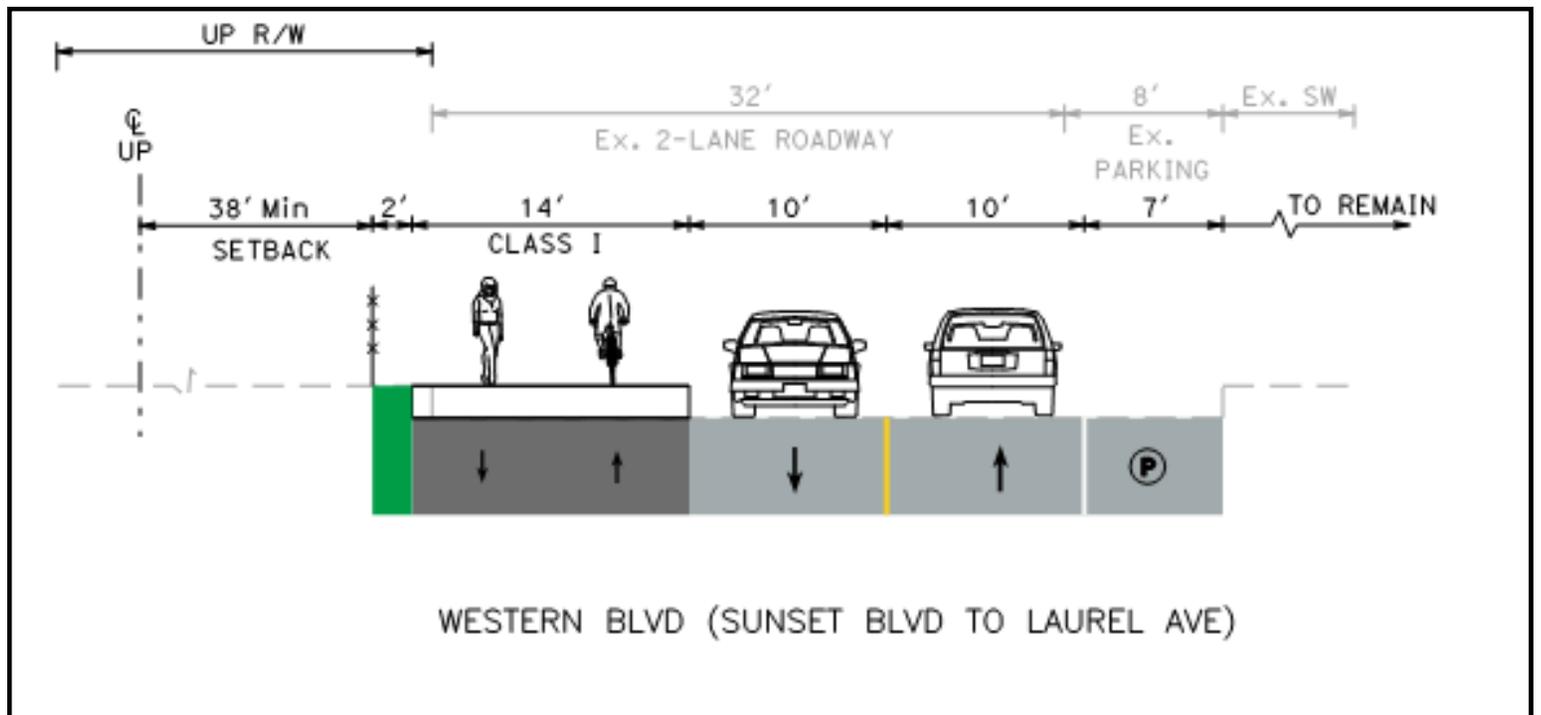
# Upcoming Projects

## East Bay Greenway

Rail to Trail



Rail with Trail





# Upcoming Projects

## I-880 Ped Improvements



- Develop Scope of Work – Summer 2017
- Coordinate with Alameda CTC and City of San Leandro
- Schedule Community Outreach Meetings – Fall 2017



# Feedback/Comments





# Council Sustainability Committee

## Illegal Dumping

ROD AFFONSO

STREETS MAINTENANCE MANAGER

03/13/17

# Maintenance Services Department

The mission of the Maintenance Services Department is to provide for the maintenance of City streets, landscaping, fleet, and facilities. The Department's emphasis is to enhance the quality of life for City residents, businesses, and visitors by supporting the City Council's priorities of a safe, clean, and green community.

- ❑ Streets Maintenance
- ❑ Landscape Maintenance
- ❑ Facilities Management
- ❑ Fleet Management

# Pursuit of a Greener Community

To maintain properties in a manner that is consistent with preserving the safety and cleanliness of the public right-of-way in direct support of City Council priorities; SAFE CLEAN & GREEN

# Illegal Dumping

## Contributing Factors

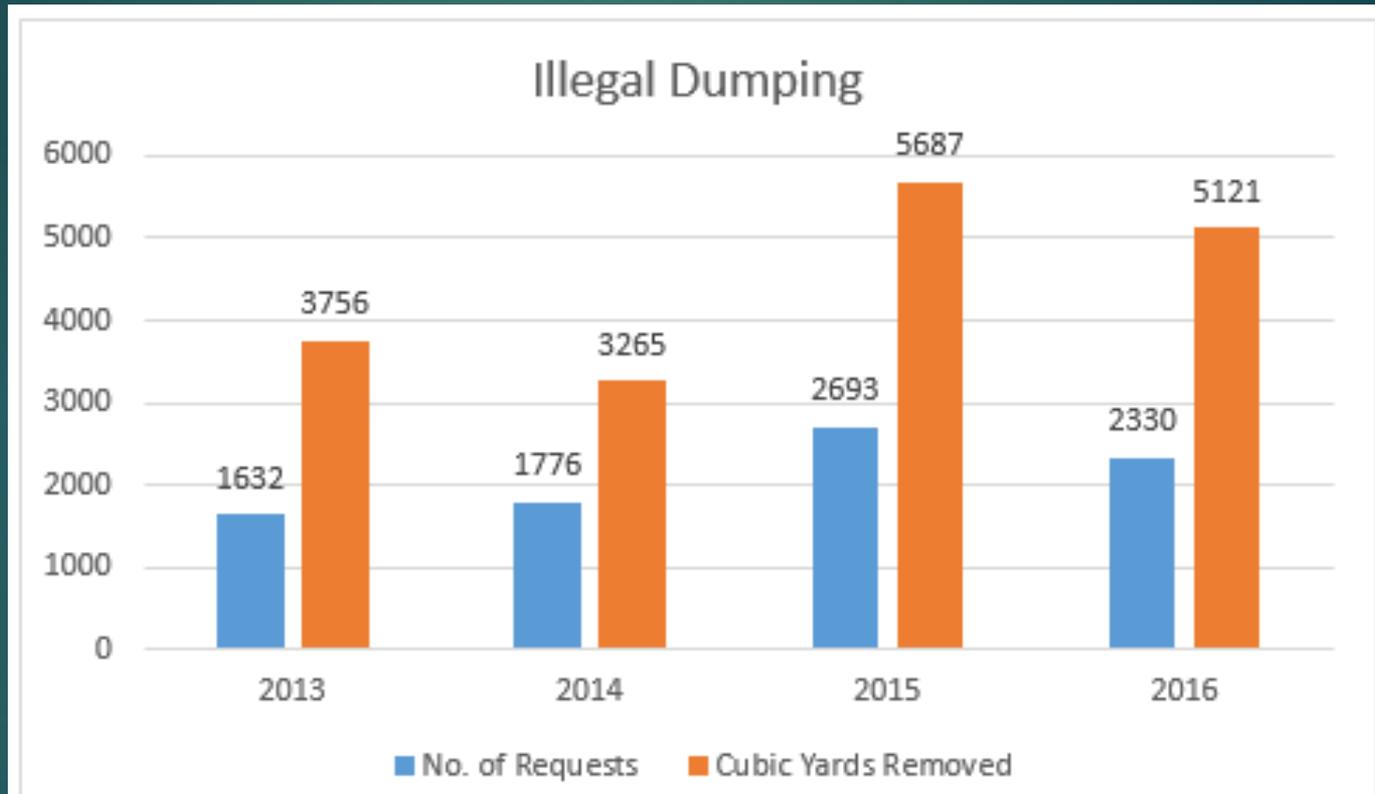
- ❑ Cost of disposal
- ❑ Perceived service
- ❑ Behavior



## Resources

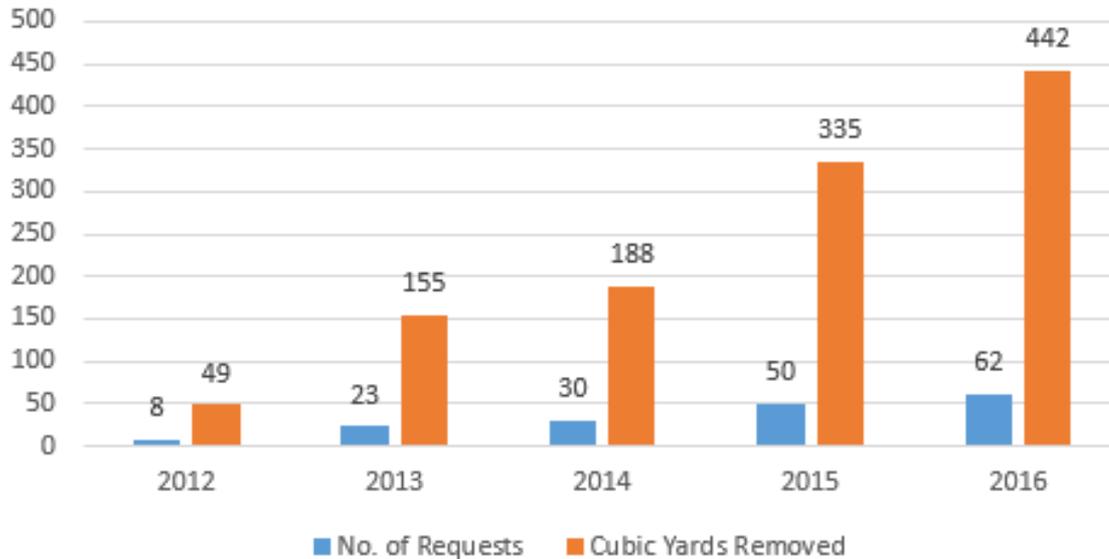
- ❑ Measure C – 4 positions
- ❑ Waste Management Bulky Service
- ❑ Waste Management Coupons

# Access Hayward Requests



# Homeless Encampments

## Homeless Encampments



## WARNING,

YOUR OCCUPATION OF THIS PROPERTY IS UNLAWFUL UNDER AUTHORITY OF CALIFORNIA PENAL CODE 602(O) AND/OR HAYWARD MUNICIPAL CODE 4-2.40 YOU MAY BE SUBJECT TO ARREST FOR TRESPASSING YOU ARE REQUESTED TO VACATE THIS PROPERTY IMMEDIATELY PLEASE TAKE ALL OF YOUR POSSESSION WITH YOU.

ON **FRIDAY, MAY 21, 2010** AT **0800 HOURS** THE PROPERTY WILL BE CHECKED ANY PERSON FOUND TRESPASSING MAY BE ARRESTED AND ANY ITEMS LEFT BEHIND WILL BE PICKED UP AND REMOVED FROM THE PROPERTY.

IF YOU NEED ANY FURTHER INFORMATION CONTACT THE HAYWARD POLICE DEPARTMENT AT:

NORTHERN DISTRICT OFFICE (510) 293-5004  
1190 B ST., HAYWARD CA

SOUTHERN DISTRICT OFFICE (510) 293-5750  
28200 RUUS RD., HAYWARD CA

## NO TRESPASSING,



# Adoption of Ordinance 5-7.25

- ❑ Adopted by City Council on October 23, 2012
- ❑ Amendment 5-7.25 addresses unlawful nuisance on public property
- ❑ Places responsibility
  - ❑ Property owners
  - ❑ Occupants
  - ❑ Tenants

# The Ordinance Seeks to Achieve

- ❑ Minimize illegal dumping
- ❑ Educating the community
- ❑ Partner with property owners/tenants
- ❑ Open line of communication with community
- ❑ Cost Recovery

# Video Surveillance Cameras

- ❑ Mobile Surveillance Cameras
- ❑ Solar Powered
- ❑ Historical Hot Spots
- ❑ Hayward Police Assistance
- ❑ Dummy Cameras



# Signs

- ❑ Education
- ❑ Historical Hot Spots
- ❑ LED Message Boards
- ❑ Hayward Police Enforcement



# Community Groups

## Keep Hayward Clean & Green

- ❑ Maintain positive community appearance – in partnership with HPD
- ❑ Protect Public's Health & Safety
- ❑ Recognition via signage
- ❑ Keep Hayward Clean & Green



# Lean Innovation Bootcamp

## Illegal Dumping

5 member team

Target area of South Hayward neighborhood

Single & multi-unit dwellings

Contacted 250 residents

### Outcome

Two-thirds of residents contacted admitted illegal dumping was illegal

Residents were not aware of options

### Action Taken

Outreach/education from staff

WM vouchers

LED message board

# Questions?





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## Update on Hayward's Bulky Item Collection Program

UTILITIES & ENVIRONMENTAL SERVICES

# Bulky Program Overview



- Curbside Collection of Large Items
- 4 Cubic Yards Per Household Annually
- No Extra Cost to Residents
- Convenience Offered Hayward Residents - SFD and MFD
- Program Expanded in 2015



# Bulky Program Logistics



- Waste Management Performs Collections
- Resident Makes Appointment
  - Mailed Confirmation and Set-out Instructions
  - Collection in About Two Weeks on Regular Service Day
- Two-Truck Teams
- Average About 45 Collections Per Day







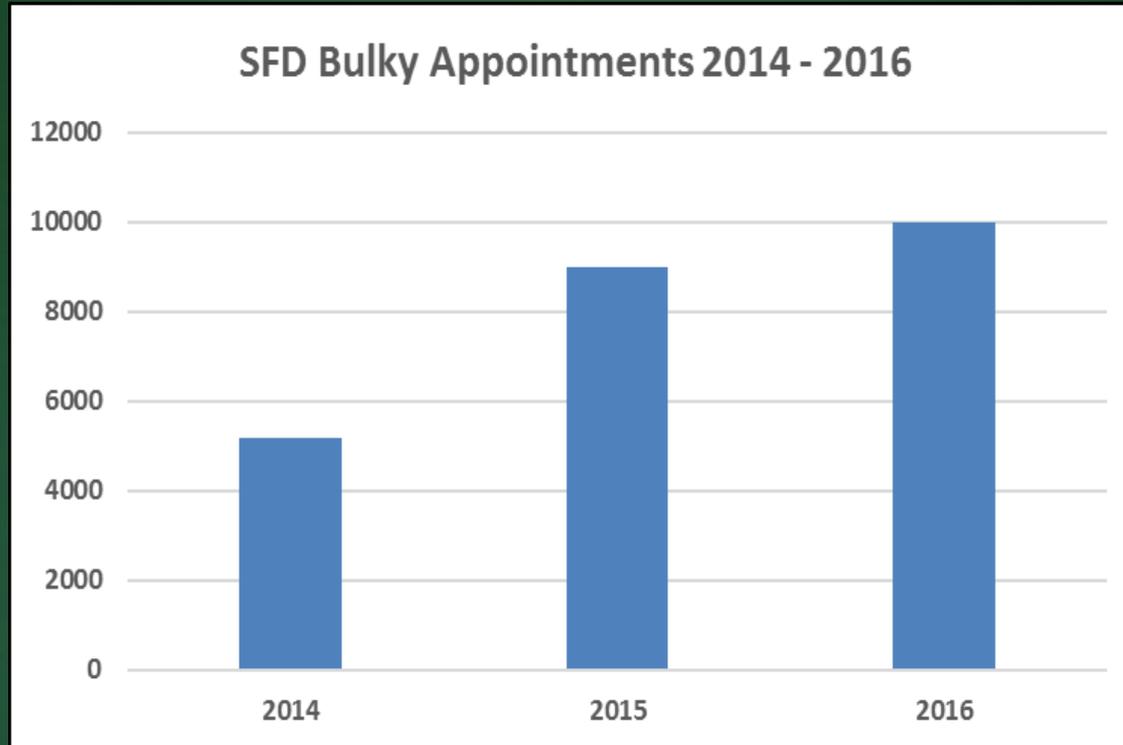
# Outreach



- ▶ Bulky collection mailer sent twice annually
- ▶ Annual mailing of recycling guides
- ▶ Garbage bill inserts
- ▶ Posters on Big Belly City litter receptacles
- ▶ City of Hayward and WMAC Websites
- ▶ Promoted at Events i.e. Downtown Street Parties City Annual Clean-Up Day

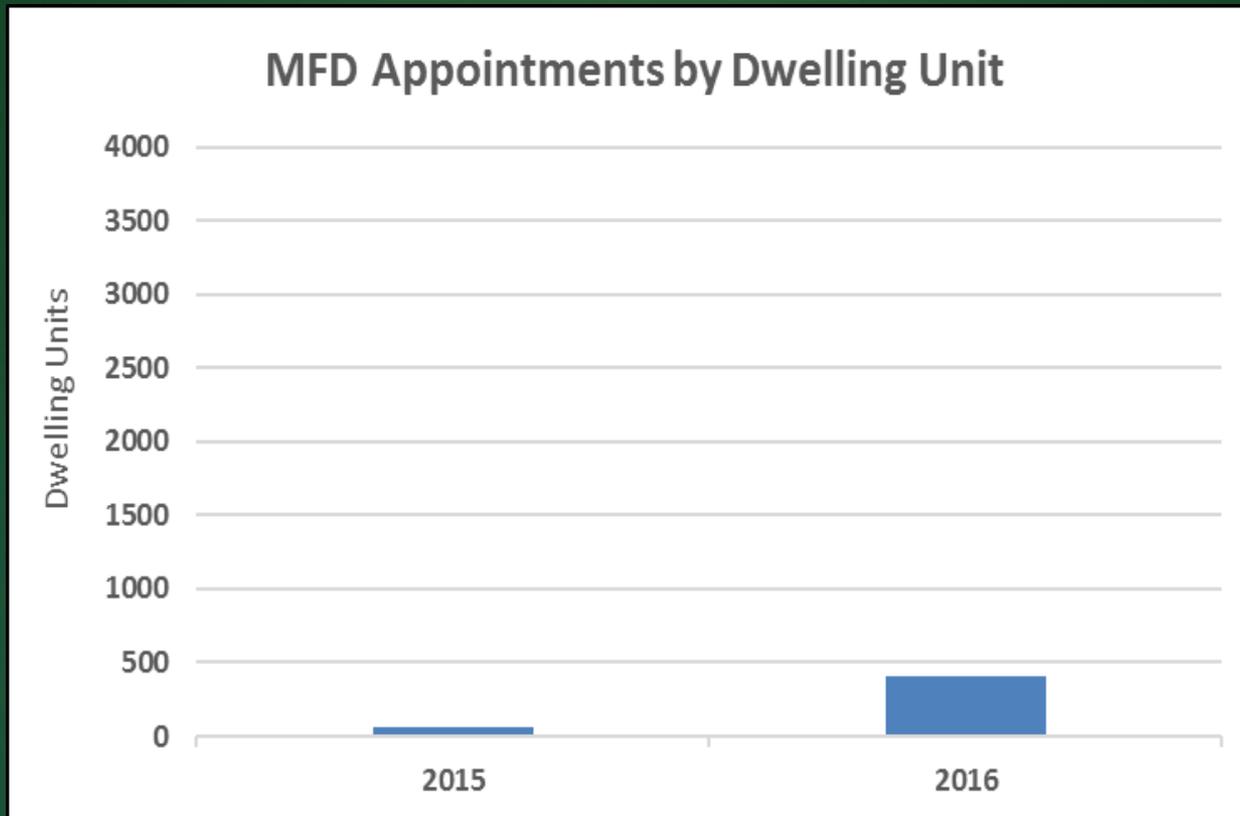


# Single-Family Participation



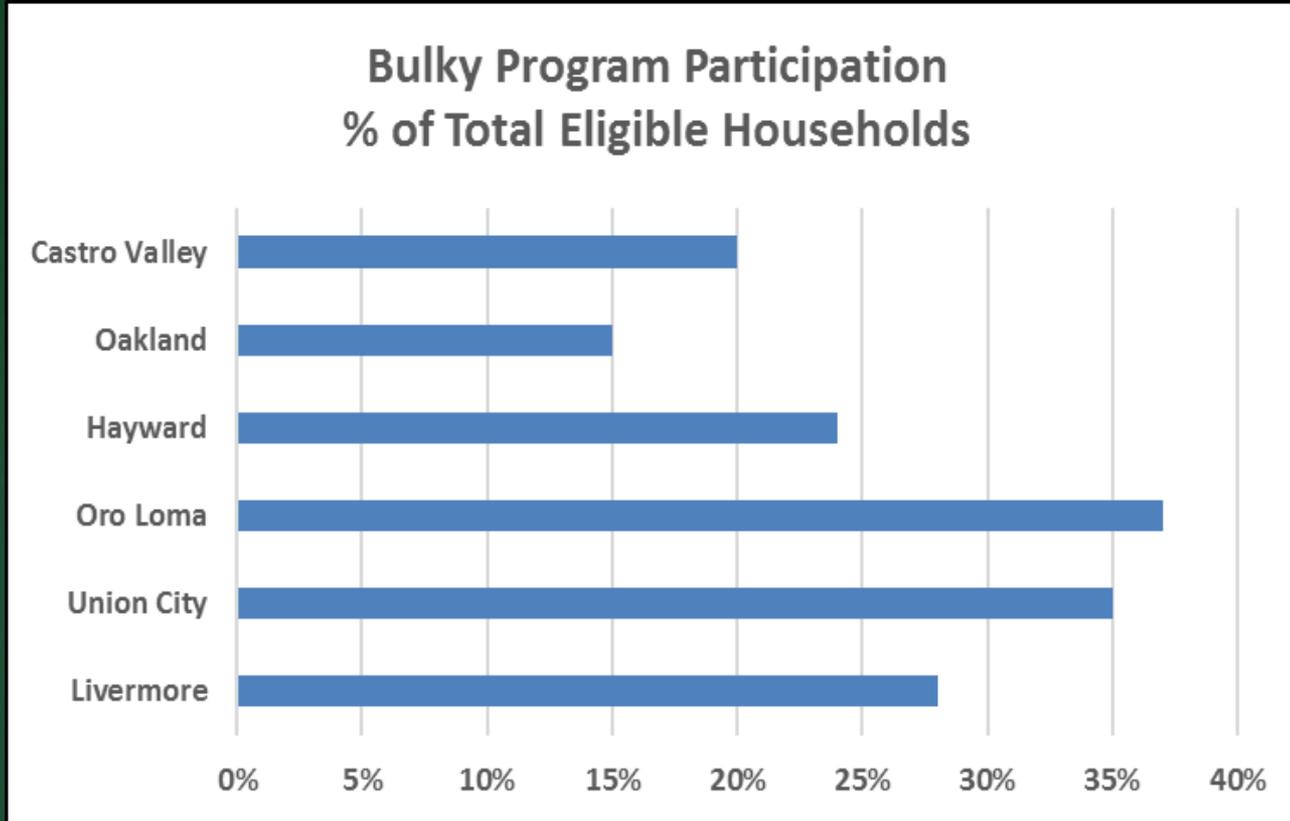
About 30% of Eligible SFD dwelling units participated in 2016

# Multi-Family Participation



About 3% of Eligible MFD dwelling units participated in 2016

# Other Jurisdictions' Participation



# GIS Map – Illegal Dumping and Bulky Collections



- ▶ <http://hayward.maps.arcgis.com/apps/webappviewer/index.html?id=956bf65ded6e4658a849294fa254f19e>



# Next Steps



- ▶ Continue Current Outreach Efforts
- ▶ Add New Outreach
- ▶ Focus on Centrally-Billed MFDs
- ▶ Pilot Pre-scheduled Appointments?

# Questions & Discussion





# Pioneers for Sustainable Communities

(aka Sustainable City Year Program)



Cal State East Bay – City of Hayward Partnership  
Course-Based Faculty-Guided Student Research on City Sustainability Issues

A Progress Report to the City of Hayward  
Council Sustainability Committee

March 13, 2017



# Overview of Projects AY 16/17

Five City Projects Involving **5 Full Courses (RED)**; 12 Partial Courses (Black), 8 Funded FTE.

Project	Funded?	Staff Lead	Faculty Lead	Fall Courses	Winter Courses	Spring Courses	Participating Faculty	Participating Sections	Funded FTE Sections
<b>1 Art Master Art Plan</b>	Y	Bristow (Dev. Serv.)	Chamberlain (Fortune, Muerta, White)	REC 2200(2)	REC 3510(2) <u>REC 3300(1)</u>	REC 4000(1)	4	6	2
<b>2 San Lorenzo Creek Landuse</b>	Y	Schmidt (Dev. Serv.)	Rohrmeier	GEOG 3030(1)	GEOG 3030(1)	GEOG 4605(1)	1	3	2
<b>3 Composing 4 Littering</b>	Y	Pearson & Thomas (U&ES)	Derkson & Brooks (Liu, Guo, Haft)	PHIL 3151(1) HUM 2010(1)	COMM 4107(1) COMM 3004(1)	COMM 4107(1) HDEV 3203(1) <u>DANC 3456(+)</u>	5	7	4
<b>5 Building Seismic Safety Survey</b>	N	James (CMO/DSD)	Akhavian	<u>CMGT 4800</u>			1	1	0
<b>TOTAL</b>								<b>17</b>	<b>8</b>

# **SAN LORENZO CREEK ENHANCEMENT PLANNING**

## Anthropology, Geography, and Environmental Studies

Leigha Schmidt, AICP - Senior Planner, City of Hayward

Dr. Kerry Rohrmeier, AICP - CalState East Bay



## San Lorenzo Creek Enhancement Planning

Two Partial Courses:

- GEOG 3030 - Fundamentals of Geographic Information Systems (Fall 2016)
- GEOG 303 - Fundamentals of Geographic Information Systems (Winter 2017)

One Full Course:

- GEOG 4605 - Applications of GIS (Spring 2017)



## Successes (Fall 2016)

- Worked with Alameda County Flood Control & Water District to secure an encroachment permit and key access
- Completed San Lorenzo Creek field survey between Downtown Hayward and the Bay Trail
- Coordinated and delivered the San Lorenzo Creek area GIS data layers within the Hayward Area Parks & Recreation boundary

## Next Steps (Winter 2017)

- Complete the San Lorenzo Creek field survey between Downtown Hayward and Don Castro and Cull Canyon Regional Recreation Areas
- Deliver GIS data of Parks & Recreation facilities within the Hayward Area Parks & Recreation District boundary



**Goal (Spring 2017) - Develop a GIS-based San Lorenzo Creek trail map and with prioritized improvements**

# ART AND INNOVATION MASTER PLAN

## Hospitality, Recreation & Tourism

Deputy Directory, DSD, Stacy Bristow (City of Hayward)

Dr. Chris Chamberlain, HRT Department Chair & Associate Professor (Cal State East Bay)

Dr. Mary F. Fortune, Professor, HRT Department (Cal State East Bay)

Mr. Dave Muela, Instructor, HRT Department

Dr. Nancy White, Associate Professor, HRT Department

# Fall 2016 Highlights

- HRT Faculty met to 1) strategize on how to engage HRT students, 2) develop assignment, and 3) job announcement seeking students for paid position
- 2 sections of REC 2200 Leisure Programming (online & face-to-face) participated (n=40)
- Assignment guidelines:
  - Conduct an Internet search to locate three (3) Public Arts Master Plans,
  - Formulate ten (10) questions that could be used to develop a comprehensive survey.

# RESULTS

- 36 students completed the assignment
- 130 question developed
- 18 City Master Arts Plans researched
- Student comment: The purpose of the plan is to foster culture activism, diverse artistic expression and positive collaboration. I also believe it's to help with graffiti. The City is taking a pro-active, preventive approach to help eliminate graffiti through the public mural art program, which was implemented in April of 2009.

# Future Steps

- 3 separate recreation classes will be given the next step in the assignment – further researching of 5 top master plans and to develop 10 questions from the original list of 130 developed by students enrolled in recreation classes fall 2016.
- Finalize survey questions and forward to the City of Hayward for distribution.

# COMPOSING AND LITTERING

## PHIL, HUM, COMM, HDEV, and DANCE

Erik Pearson and Mary Thomas – Utilities and Environmental Services, City of Hayward

Dr. Craig Derksen, Dr. Lonny Brooks- CalState East Bay, Project Leads

Dr. Yung-I Liu, Dr. Yiangsheng, Ms. Nina Haft – Cal State East Bay, Contributors

# An undergraduate course in Relational Communication in Organizations + a Graduate Seminar in Interactive Design

- Students created their own Environmental PR Consulting Practices
- Waste Management of Alameda, Inc. and the City of Hayward asked student teams to design a game booth to promote environmental awareness, composting and three stream sorting
- Students in the undergraduate course presented their prototypes on March 7<sup>th</sup>
- Graduates in the Multimedia Interactive Design course will present their prototype tomorrow March 14<sup>th</sup>

Better Tomorrow  
Student Environmental Consulting Practice

***Better Tomorrow***

TRICIA MANIQUIS , SHANNON PANEC & JESSICA BRYANT

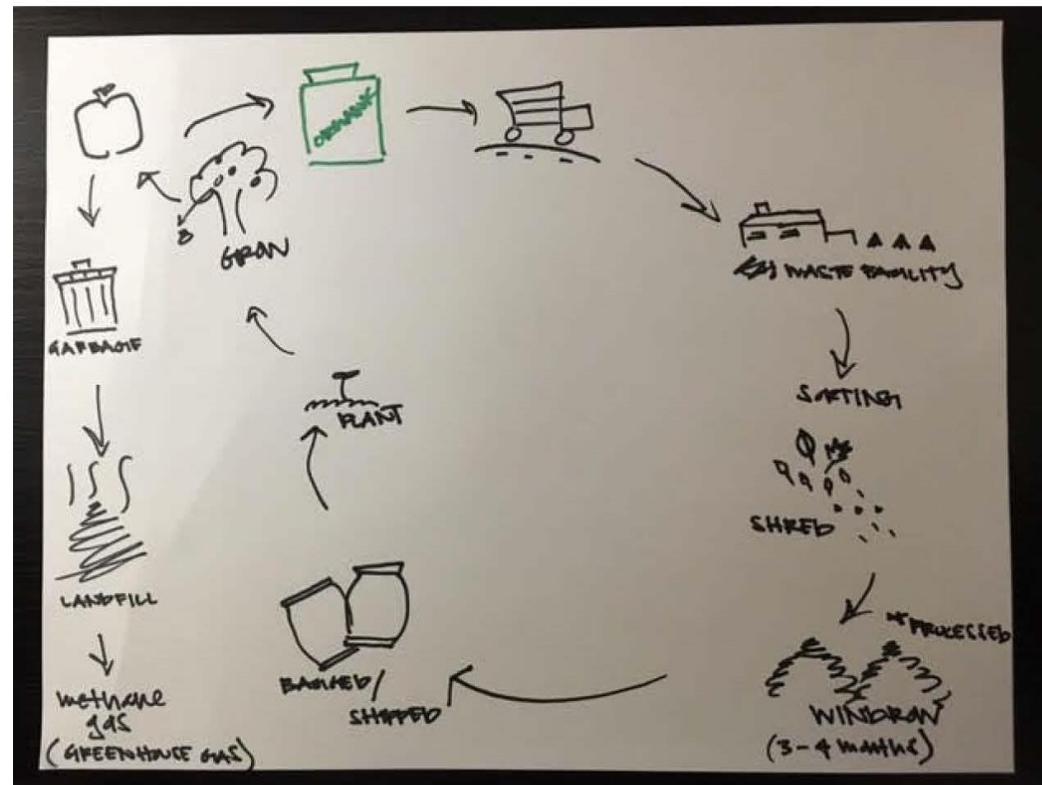
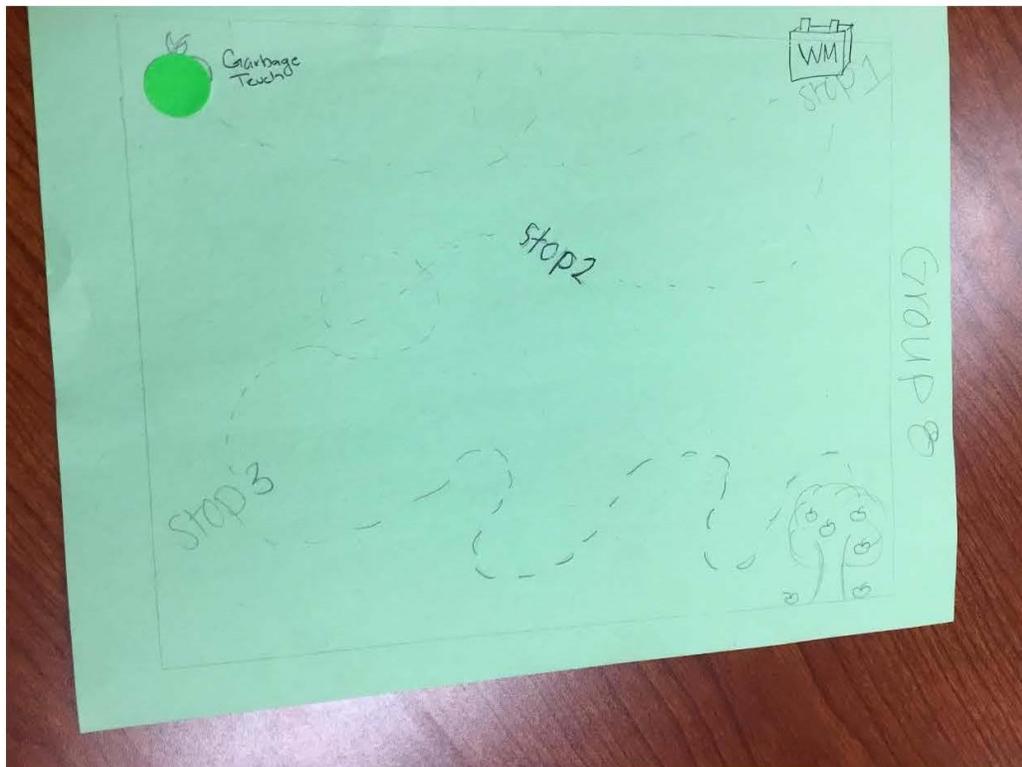
# *Mission Statement*

- To create a simplified learning experience for children to understand the importance of composting:  
Composting is a sustainable practice that will benefit the community and environment for future generations

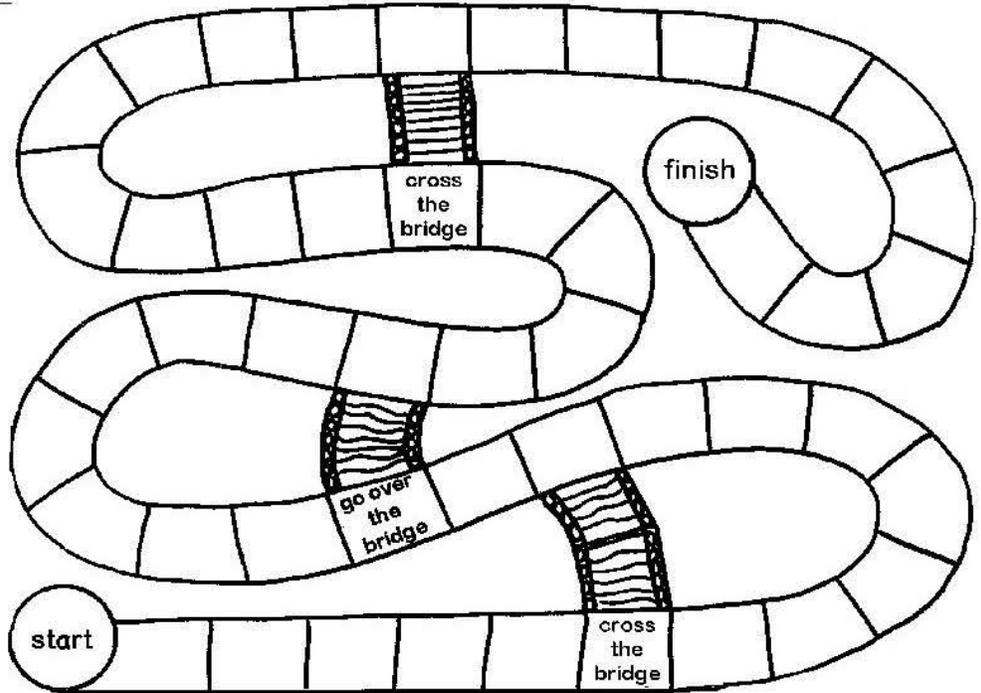
# Objectives

- Learn the full cycle of composting after the apple core is placed in the composting bin
- What happens after the garbage is picked up?
- The idea of the game is for players to understand that the decisions they make can either lead to a new apple tree or lead to hindering our future

# Process



# COMPOSTING PROCESS=GAMEBOARD





# From Garbage to Garden



- A roadmap showing the journey of an apple core from disposal to the growth of another apple tree
- Players are asked questions about how they dispose their apple core (organics) which determines where it goes next...
  - Organize the step-by-step process of composting
  - Learn the benefits of composting
- **Apple core** → **Garbage** → **Landfil** 🦴 → **Methane**
- **Apple core** → **Organics** → **Compost** → **GARDEN** 🎉
- Visuals of the apple core, organics bin, waste bin, garbage truck, facility, landfill, windrow piles, compost and a garden as well as information about each step

# Game Questions

## Game Questions

- Sand, coal and ashes can be compost. True or False
- Heat is used for the decomposition process. True or False
- Can coffee grounds, egg shells and horse manure be compost? Yes or no
- Fill in the blank: Water + oxygen + \_\_\_\_\_ = Composting
- Name one reason why composting is important for the environment.

*Thank You from the Apple Core*

THANK YOU



# Zero Waste Game Jam March 4<sup>th</sup>



JOIN US  
**MARCH 4<sup>TH</sup>**  
**10 AM TO 5 PM**  
**NO EXPERIENCE NECESSARY**

**EAST BAY**  
*game jam*

REGISTER NOW - MAKE GAMES - MAKE FRIENDS - PLAY GAMES - SAVE THE PLANET

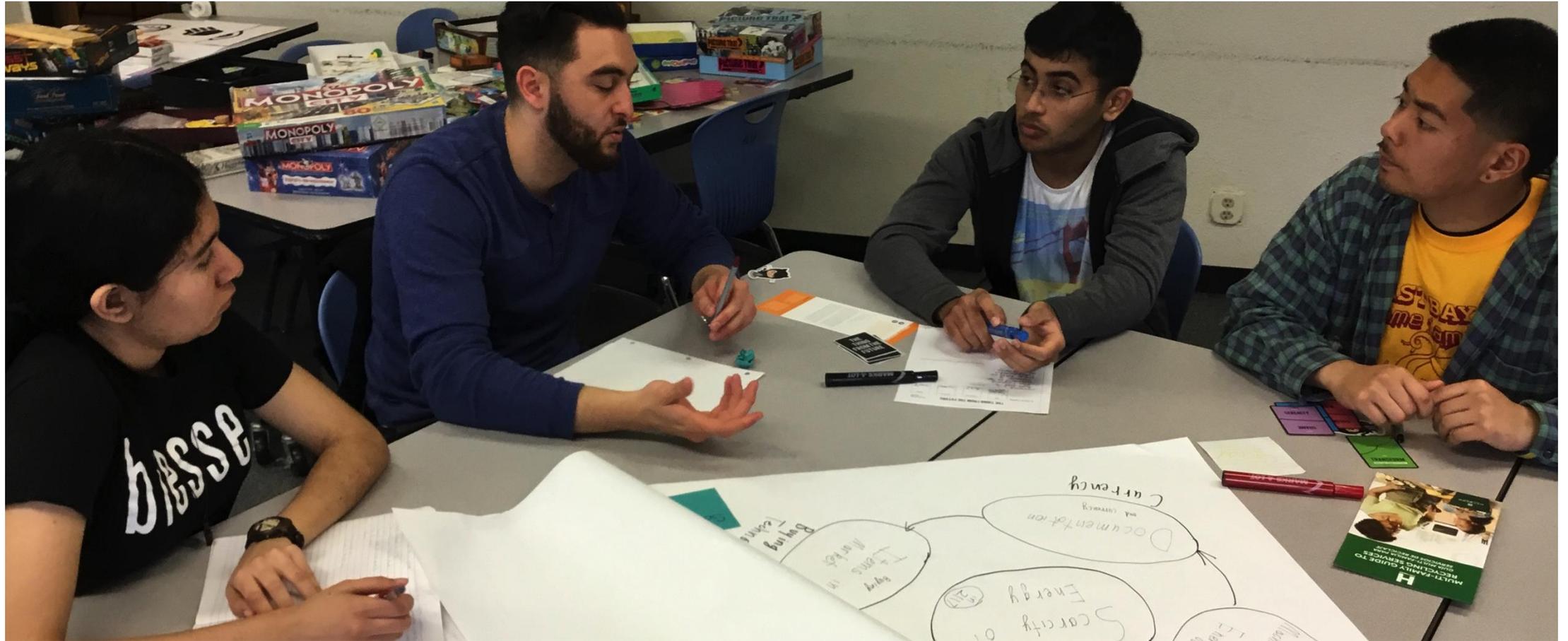
# Zero Waste Game Jam March 4<sup>th</sup>

## Inspiration phase--U.N. Sustainability Goals



# Zero Waste Game Jam March 4th

## Designing the Solar Domination Game



# Solar grids compete for Solar Domination



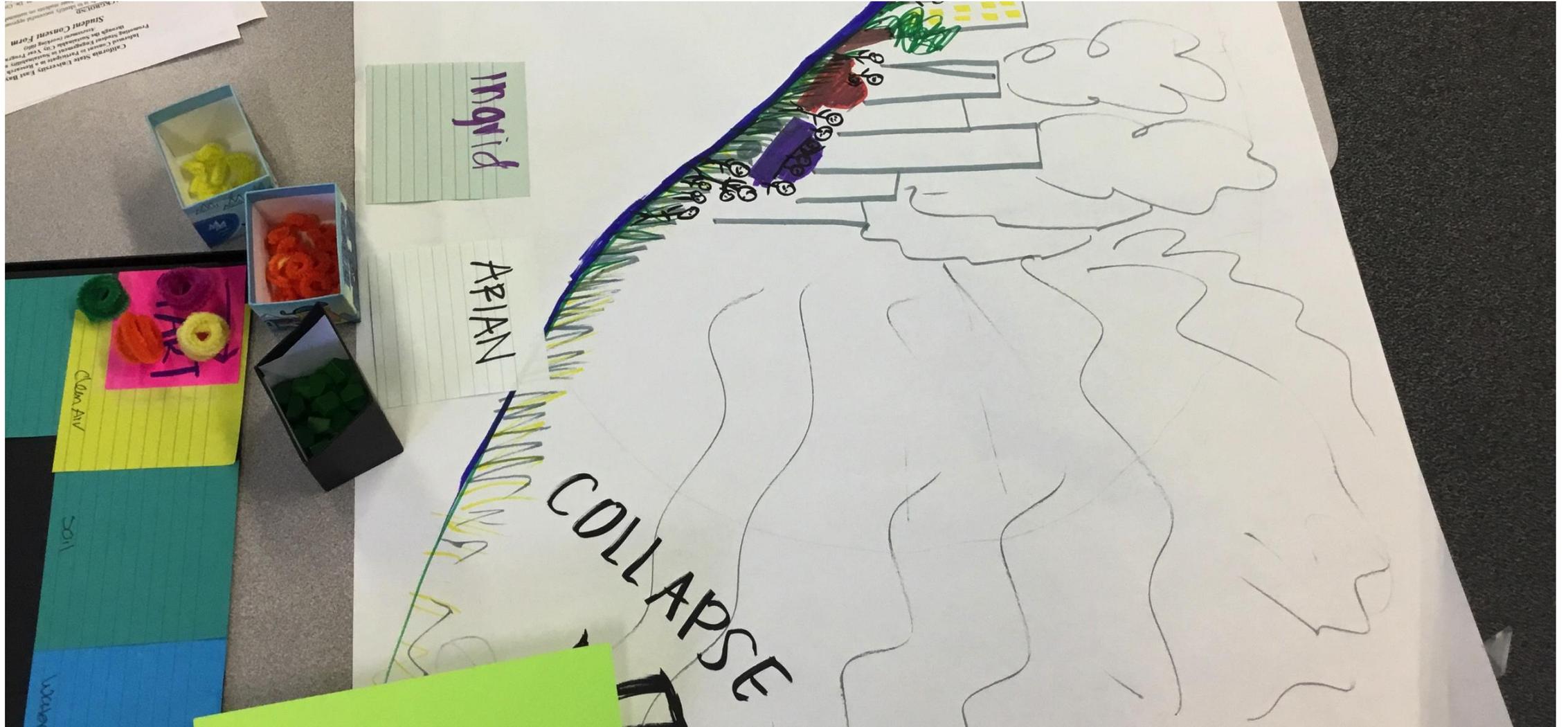
# Zero Waste Game Jam March 4<sup>th</sup>



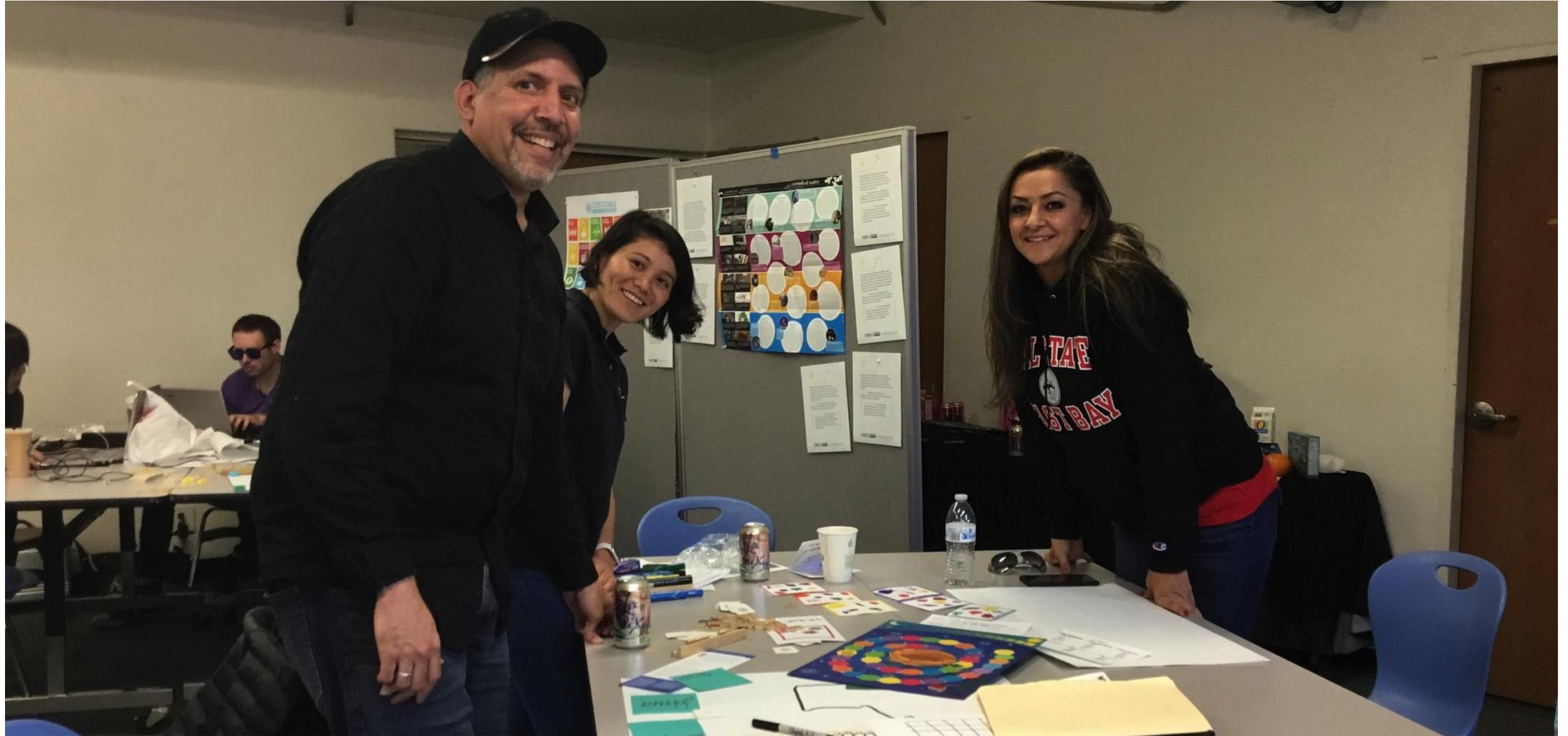
# Zero Waste Game Jam March 4<sup>th</sup>



# Zero Waste Game Jam March 4th Earthopoly Design



# Zero Waste Game Jam March 4<sup>th</sup>



# Thank you.... Questions?

## Contact Information

- P4SC Program Information
  - Audrey Wade ([P4SC@csueastbay.edu](mailto:P4SC@csueastbay.edu))

## Co-directors

- Karina Garbesi ([karina.garbesi@csueastbay.edu](mailto:karina.garbesi@csueastbay.edu)) 510-885-3172
- Craig Derksen ([craig.derksen@csueastbay.edu](mailto:craig.derksen@csueastbay.edu))

## Acknowledgements

- President Leroy Morishita (match funding this pilot year)
- Advisory input: Lonny Brooks and Nina Haft



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# GREEN INFRASTRUCTURE FRAMEWORK

## UTILITIES & ENVIRONMENTAL SERVICES

Elisa Wilfong  
Water Pollution Control Administrator

MARCH 13, 2017

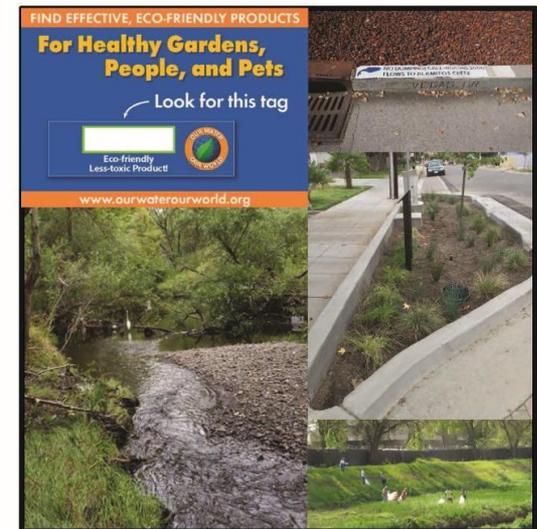
# Stormwater Green Infrastructure Requirements



- ▶ MRP 2.0 Provision C.3
  - ▶ Develop GI framework & GI long-term plan
  - ▶ Reduce PCBs & Mercury with GI
    - ▶ Treat 43 acres of industrial areas by 2020
  - ▶ Council approval of GI Plans

California Regional Water Quality Control Board  
San Francisco Bay Region  
Municipal Regional Stormwater NPDES Permit

Order No. R2-2015-0049  
NPDES Permit No. CAS612008  
November 19, 2015



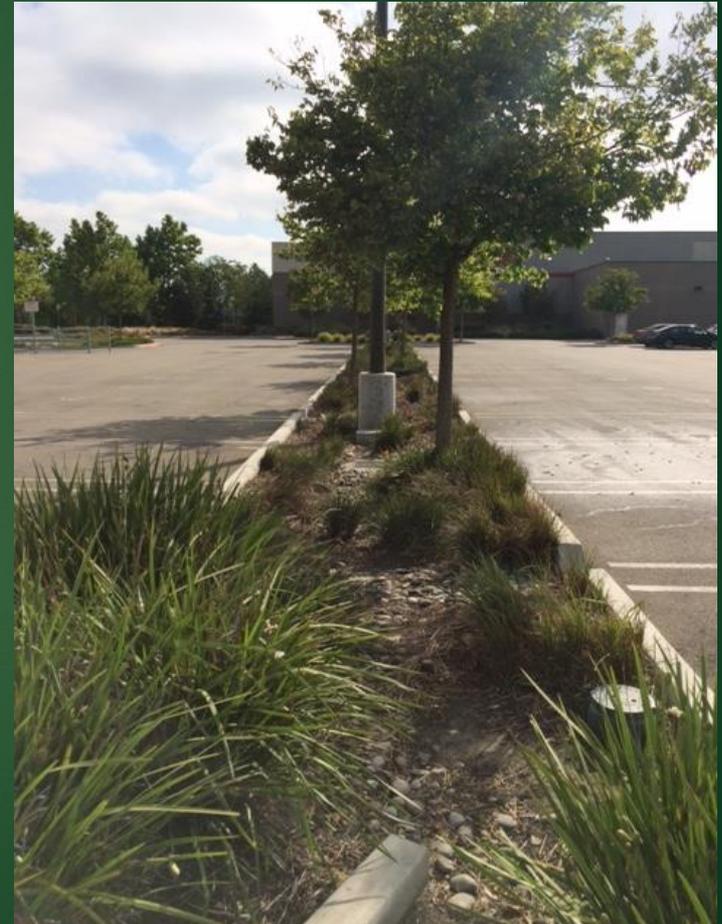
# What is Provision C.3?



If you create this:



You have to create this:



# C.3 Offsets Impervious Surface



Figure 2.1: Three-Dimensional View of a Stormwater Planter



# Green Infrastructure is Aboveground Treatment of Stormwater

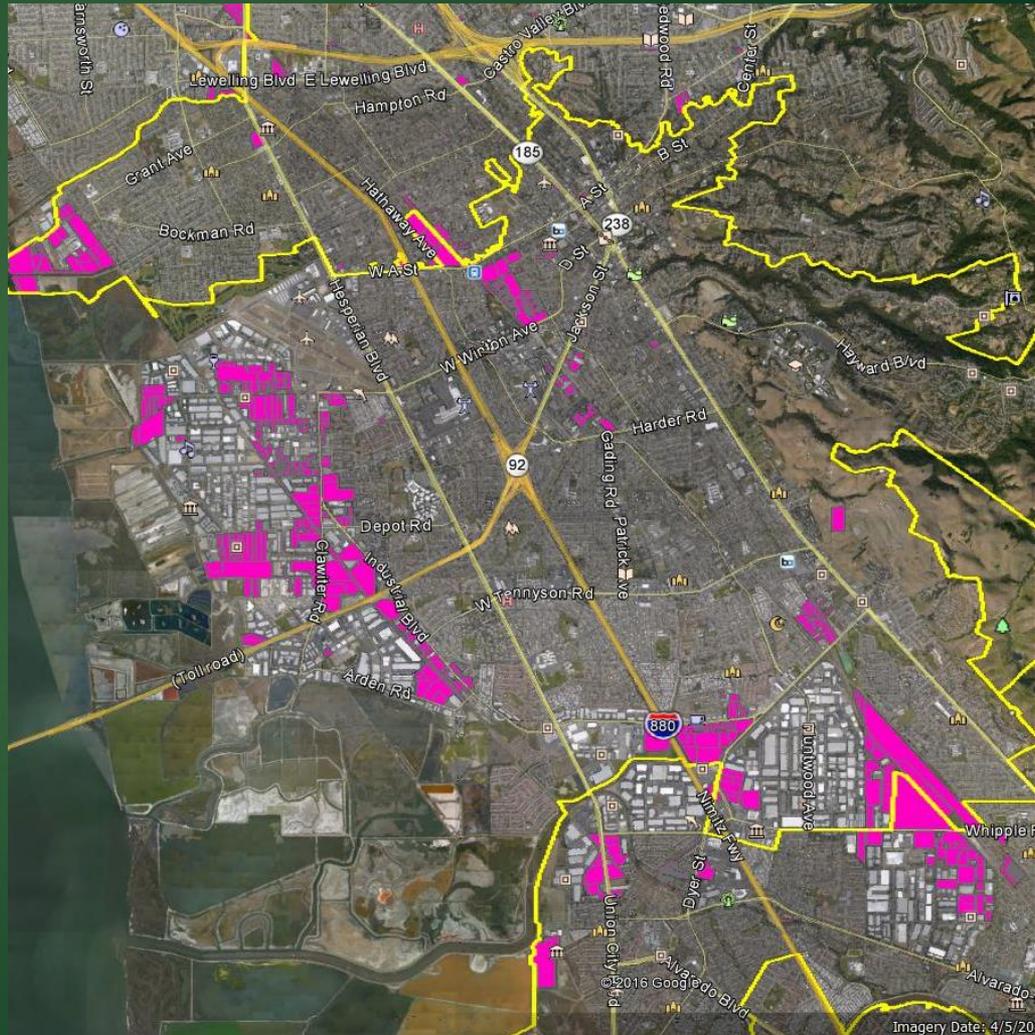


Green Infrastructure goes above and beyond traditional C.3 requirements

# Current C.3 Program is Not Enough



- ▶ Need to implement large-scale projects
- ▶ Need to focus on **industrial** for GI
- ▶ Need to incorporate GI in current CIP projects for cost savings



# Two Prong Approach to GI Implementation



Require GI in Current  
Projects (no missed  
opportunities)

Design Future Projects  
for GI to meet goals



Long-Term GI Plan

# Steps Towards Compliance:



- ▶ Staff created “GI Team”
- ▶ GI Team developed draft GI Framework
- ▶ Staff will review CIP list and assess current C.3 projects to reach goals by 2020 and 2040
- ▶ Design future projects for GI and possible grant funding



# Green Infrastructure Tasks and Due Dates



Date	Task
June 30, 2017 (required date)	Framework must be approved by City Council
September 30, 2019 (required date)	Green Infrastructure Plan must be submitted to S.F. Regional Water Quality Control Board
September 30, 2019 (required date)	Adopt ordinance ensuring GI plan implementation

# Questions & Discussion





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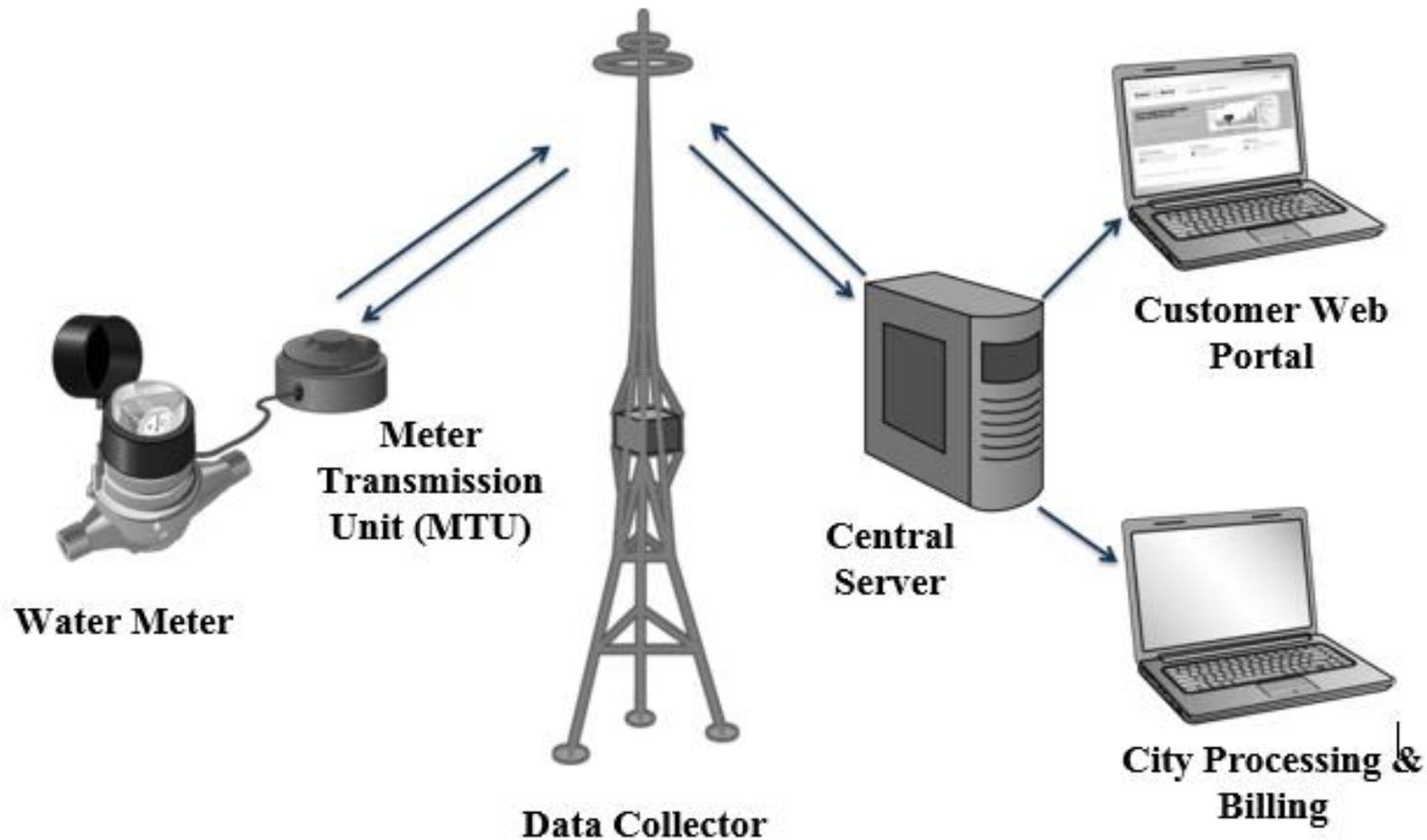
# Advanced Metering Infrastructure Project Update

UTILITIES & ENVIRONMENTAL SERVICES

Corinne Ferreyra  
Senior Management Analyst

March 13, 2017

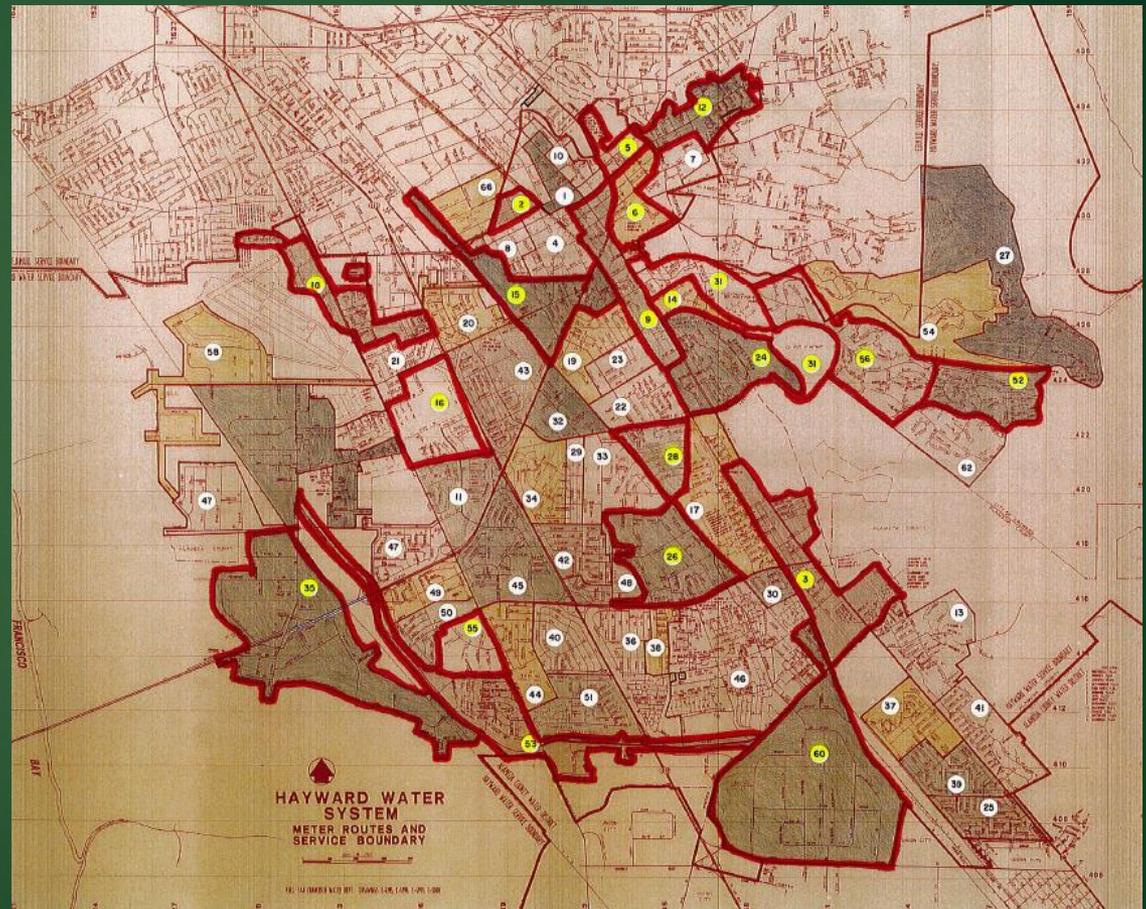
# Advanced Metering Infrastructure



# Water Meters in Hayward



- ▶ 34,000 meters
- ▶ Manually read
- ▶ 60+ routes



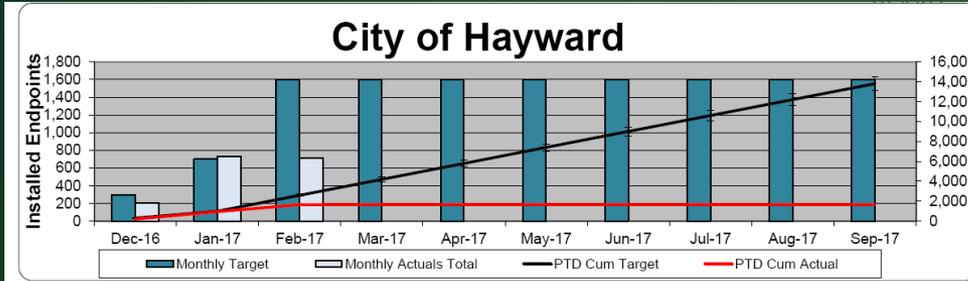
# Existing Water Meters



# Existing Water Meter Registers



# Project Implementation



#### Project Meter Installation Breakdown (4.83% Project Complete)

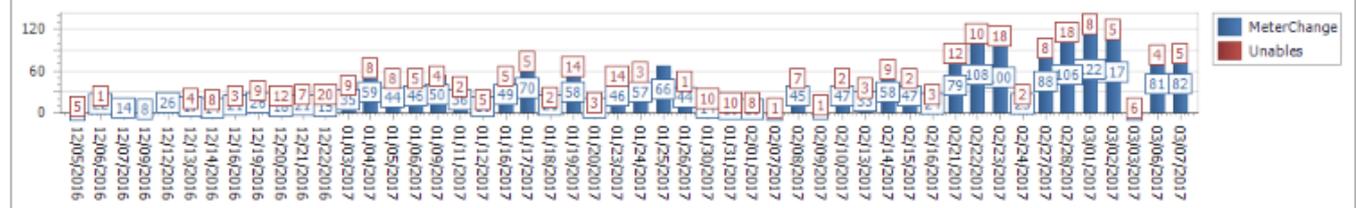
Monthly Target	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Totals
Monthly Actuals Total	208	733	712	0	0	0	0	0	0	0	1,653
5/8"	126	472	610								1,208
3/4"	65	43	29								137
1"	17	188	63								268
1.5"		24	8								32
2"		6	2								8
3" and Larger											0
Retrofits											0
RTU Actual											0
PTD Cum Target	300	1,000	2,600	4,200	5,800	7,400	9,000	10,600	12,200	13,800	
PTD Cum Actual	208	931	1,653	1,653	1,653	1,653	1,653	1,653	1,653	1,653	
PTD Variance	-92	-69									

Phase	Zone	Type	Total in Zone	Complete	Incomplete	RTU	Scheduled	Removed	Completion Rate
1	03E	WTR	111	96	12	0	3	0	86.48
1	03F	WTR	136	132	3	0	0	1	97.77
1	24B	WTR	136	132	1	0	0	3	99.24
1	25B	WTR	136	130	6	0	0	0	95.58
1	2Z	WTR	123	118	5	0	0	0	95.93
1	27A	WTR	135	130	5	0	0	0	96.29
1	27B	WTR	141	140	1	0	0	0	99.29
1	54A	WTR	115	112	2	0	0	1	98.24
1	54B	WTR	60	59	0	0	0	1	100.00
1	56C	WTR	91	84	5	0	0	2	94.38

## Weekly Production



## Daily Production



# Installation Monitoring



**Account Information**

<b>PMI Number:</b> 26365	<b>Account Number:</b> [REDACTED]	<b>Account Type:</b> WTR
<b>Location Code:</b> 26365-100000-001	<b>Customer Code:</b> 10031242	<b>Zone:</b> 548
<b>Name:</b> C DUNN	<b>Address:</b> [REDACTED]	<b>Job Type:</b> Meter Change
<b>Phone1:</b> [REDACTED]	<b>Phone2:</b> [REDACTED]	<b>Status:</b> [REDACTED]

**Meter Information**

<b>Meter:</b> 20421694	<b>Transmitter:</b> [REDACTED]	<b>Last Read:</b> 307
<b>Size:</b> 5/8-inch	<b>Install Type:</b> WTR	<b>Last Reading Date:</b> 8/18/2016
<b>Location:</b> [REDACTED]		

**Appointment Information**

<b>Scheduled Date:</b> [REDACTED]	<b>Scheduled Time:</b> [REDACTED]
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**Install Information**

<b>Install Date:</b> 12/19/2016	<b>Out Read:</b> 324	<b>Old Meter:</b> 20421694
<b>Outside Read:</b> 0	<b>High Flow Read:</b> [REDACTED]	<b>Low Flow Read:</b> [REDACTED]
<b>Meter Size:</b> 5/8-inch	<b>Meter:</b> 16433039	<b>Transmitter:</b> 21414105
<b>Lid Type:</b> [REDACTED]	<b>Install Notes:</b> [REDACTED]	
<b>Installed By:</b> Luke	<b>Latitude:</b> 37.662057	<b>Longitude:</b> -122.031623

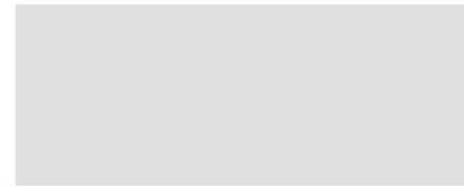
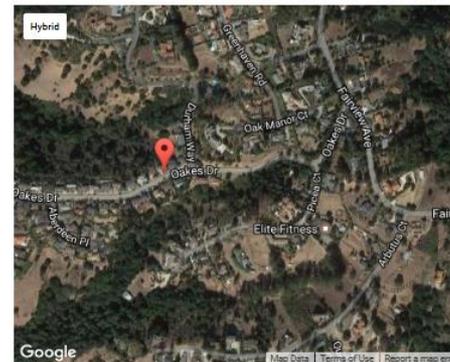
**Read Information**

<b>Current Read:</b> [REDACTED]	<b>Current Read Date:</b> [REDACTED]
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**Upload Information**

<b>Upload:</b> 02/10/2017	<b>Invoice:</b> 01/26/2017
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Install Records							
PMI No	Time Stamp	Able To Install	Install Disposition	Install Notes	Meter	Transmitter	Installed by
26365	12/7/2016	L					
26365	12/19/2016	Y			16433039	21414105	Luke
26365	12/19/2016	V					



# Replaced Meters



# Replaced Meter Box Lids



# Consumption Data



## MTU 21471263, Port 1 Consumption

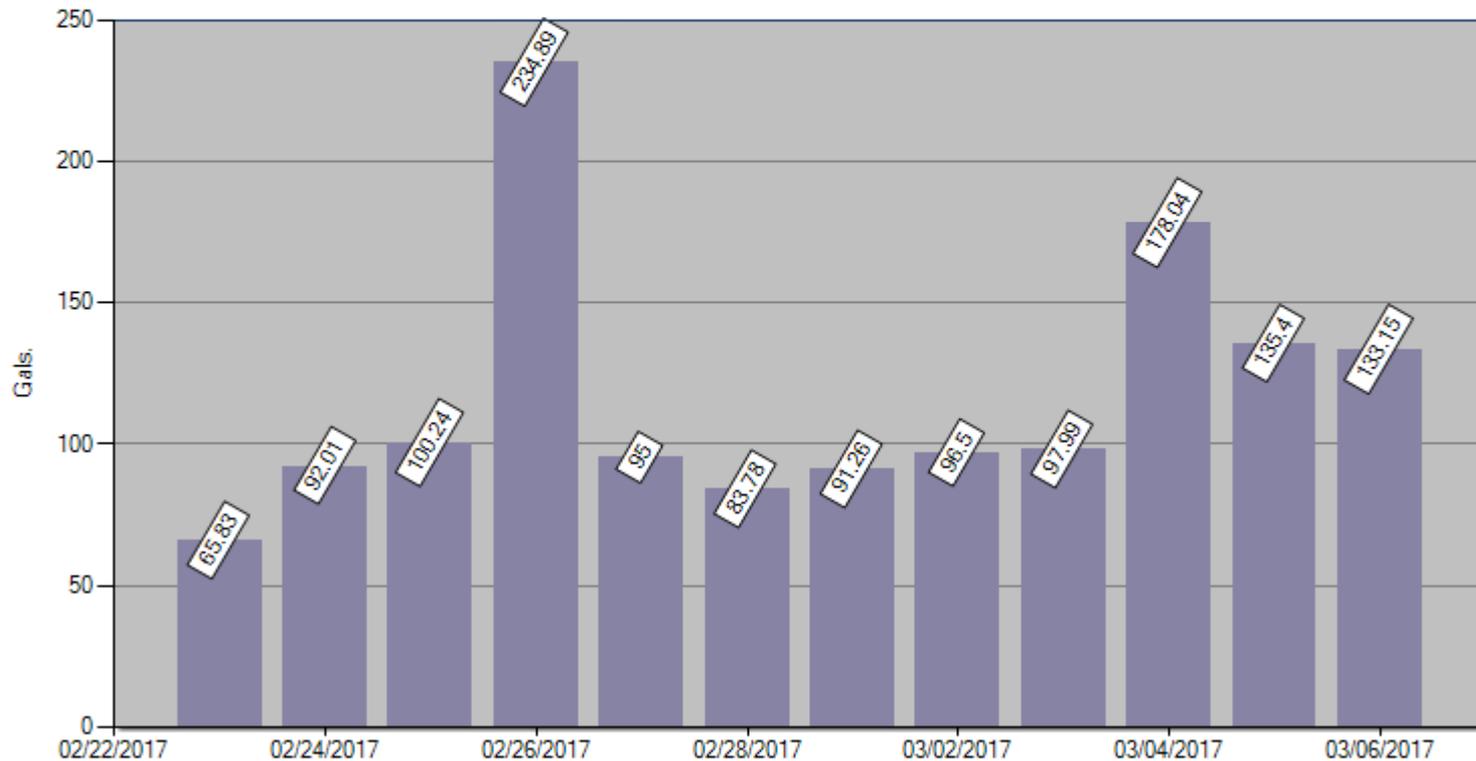
- Interval  Weekly  
 Daily  Monthly

Units  ▾

### Daily Consumption Summary (Gals.)

Total	1404.09	High	234.89
Average	117.01	Low	65.83

### Daily Consumption, 02/23/2017 to 03/06/2017



# Consumption Data



MTU 21471263, Port 1 Consumption

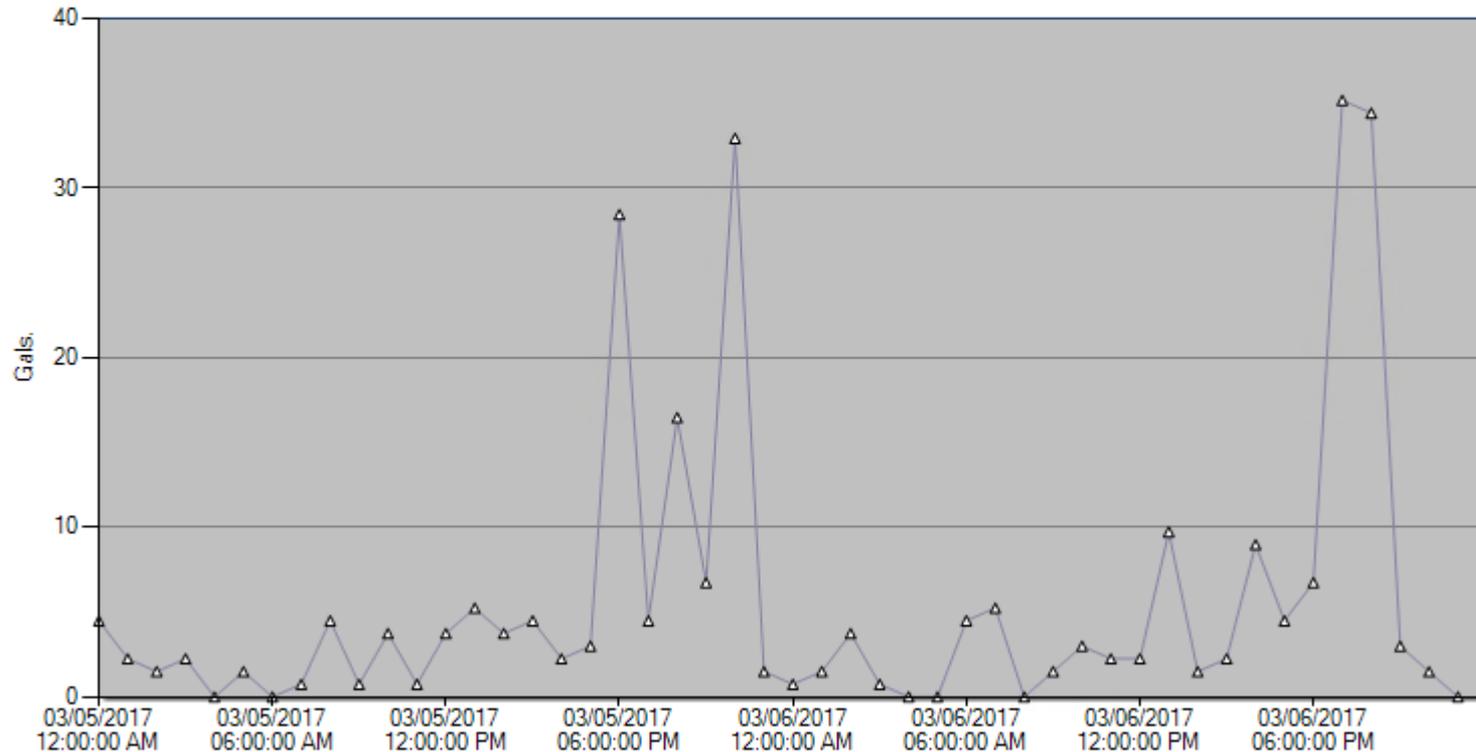
- Interval  Weekly  
 Daily  Monthly

Units  ▼

### Interval Consumption Summary (Gals.)

Total	268.55	High	35.16
Average	5.59	Low	0

Interval Consumption, 03/05/2017 to 03/06/2017





# Future Customer Engagement Web Portal

- ▶ Customers will be able to see detailed usage info
  - ▶ Allows better understanding and management of water use
- ▶ RFP release scheduled for Spring
- ▶ Seeking input on criteria that should be included

# Questions & Discussion

