



Bay Area  
Regional  
Collaborative

375 Beale Street  
Suite 700  
San Francisco, California  
94105

## Meeting Agenda - Final

### Bay Area Regional Collaborative

*Chair, Cindy Chavez, Supervisor, County of Santa Clara*  
*Vice Chair, Amy Worth, Vice Mayor, City of Orinda*

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Friday, January 15, 2021

10:00 AM

Board Room - 1st Floor (Remote)

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In light of Governor Newsom's State of Emergency declaration regarding the COVID-19 outbreak and in accordance with Executive Order N-29-20 issued by Governor Newsom on March 17, 2020 and the Guidance for Gatherings issued by the California Department of Public Health, the meeting will be conducted via webcast, teleconference, and Zoom for committee, commission, or board members who will participate in the meeting from individual remote locations.

A Zoom panelist link for meeting participants will be sent separately to committee members.

The meeting webcast will be available at:

<https://barc.ca.gov/whats-happening/meetings/upcoming-events>

Members of the public may participate by phone or Zoom or may submit comments by email at [info@bayareametro.gov](mailto:info@bayareametro.gov) by 5:00 p.m. the day before the scheduled meeting date. Please include the committee or board meeting name in the subject line. Due to the current circumstances there may be limited opportunity to address comments during the meeting. All comments received will be submitted into the record. Please click the link below to join the webinar:

<https://bayareametro.zoom.us/j/84415101609>

Or iPhone one-tap :

US: +16699006833,,84415101609# or +14086380968,,84415101609#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 669 900 6833 or +1 408 638 0968 or +1 346 248 7799 or +1 253 215 8782 or +1 301 715 8592 or +1 312 626 6799 or +1 646 876 9923 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Webinar ID: 844 1510 1609

International numbers available: <https://bayareametro.zoom.us/j/84415101609>

Detailed instructions on participating via Zoom are available at:

<https://abag.ca.gov/zoom-information>

Committee members and members of the public participating by Zoom wishing to speak should use the "raise hand" feature or dial "\*9". In order to get the full Zoom experience, please make sure your application is up to date.

The BARC Governing Board may act on any item on the agenda.

The meeting is scheduled to begin at 10:05 a.m.

Agenda, roster, and webcast available at <https://barc.ca.gov>

For information, contact Clerk of the Board at (415) 778-5218.

#### Governing Board Members

ABAG—Jesse Arreguin, David Rabbitt

BAAQMD—Cindy Chavez, Teresa Barrett, Karen Mitchoff,

BCDC—John Gioia, Anne Halsted, Dave Pine, Brad Wagenknecht, Zack Wasserman

MTC—Nick Josefowitz, Jake Mackenzie, Jim Spering, Amy Worth

CalSTA (Non-voting)—Tony Tavares, Dina El-Tawansy (Alternate)

### 1. Call to Order/ Roll Call / Confirm Quorum

### 2. Governing Board Member Announcements

*Information*

### 3. Chair's Report

- 3.a. [21-0097](#) BARC Governing Board Chair's Report for January 15, 2021

Action: Information

Presenter: Cindy Chavez

### 4. Consent Calendar

- 4.a. [21-0098](#) Approval of BARC Governing Board Minutes of November 13, 2020

Action: Approval

Presenter: Clerk of the Board

Attachments: [BARC GB Minutes 20201113 Draft.pdf](#)

### 5 Appointment of BARC Chair and Vice Chair for 2021-23

- 5.a. [21-0099](#) Approval of appointment of BARC Chair and Vice Chair for 2021-23

Action: Approval

Presenter: Cindy Chavez

### 6. BARC Executive Director's Report

[21-0169](#) BARC Executive Director's Report

Action: Information

Presenter: Allison Brooks

## 7. BARC Member Agency Executive Director's Reports

- 7.a. [21-0100](#) Metropolitan Transportation Commission and Association of Bay Area Governments

Action: Information

Presenter: Therese McMillan, MTC

- 7.b. [21-0101](#) Bay Area Air Quality Management District

Action: Information

Presenter: Jack Broadbent, BAAQMD

- 7.c. [21-0102](#) San Francisco Bay Conservation and Development Commission

Action: Information

Presenter: Larry Goldzband, BCDC

- 7.d. [21-0106](#) California State Coastal Conservancy

Action: Information

Presenter: Sam Schuchat, State Coastal Conservancy

## 7.e. San Francisco Bay Regional Water Quality Control Board

- 7.e.i. [21-0104](#) Municipal Regional National Pollutant Discharge Elimination System  
Stormwater Permit Reissuance: Status Update and Focus on Resilient  
Green Infrastructure

Action: Information

Presenter: Keith Lichten, Division Chief, SF Bay Regional Water Quality Control Board  
Matt Fabry, Manager, San Mateo Countywide Water Pollution Prevention Program

Josh Bradt, Environmental Planner, San Francisco Estuary Partnership

Robin Grossinger, Senior Scientist, San Francisco Estuary Institute

Attachments: [BARC GB 7e Water Board Presentation 011521.pdf](#)

## 8. Public Comment

## 9. Adjournment / Next Meeting

*The next meeting of the Bay Area Regional Collaborative will be held Friday, March 19, 2021 at 10:05 a.m. remotely and by webcast as appropriate depending on the status of any shelter in place orders. Any changes to the schedule will be duly noticed to the public.*

The Governing Board may take action on any item listed in the agenda.

This meeting is scheduled to end promptly at 12:00 p.m. Agenda items not considered by that time may be deferred.

The public is encouraged to comment on agenda items by completing a request-to-speak card and giving it to BARC staff or the chairperson.

Although a quorum of the Governing Board may be in attendance at this meeting, the Governing Board may take action only on those matters delegated to it. The Governing Board may not take any action as the Bay Area Regional Collaborative Governing Board unless this meeting has been previously noticed as a Bay Area Regional Collaborative Governing Board meeting.



## Legislation Details (With Text)

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**File #:** 21-0097      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** BARC Governing Board Chair's Report for January 15, 2021  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**  
BARC Governing Board Chair's Report for January 15, 2021

**Presenter:**  
Cindy Chavez

**Recommended Action:**  
Information

**Attachments:**



## Legislation Details (With Text)

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**File #:** 21-0098      **Version:** 1      **Name:**

**Type:** Minutes      **Status:** Committee Approval

**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative

**On agenda:** 1/15/2021      **Final action:**

**Title:** Approval of BARC Governing Board Minutes of November 13, 2020

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:** [BARC GB Minutes 20201113 Draft.pdf](#)

Date	Ver.	Action By	Action	Result
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**Subject:**

Approval of BARC Governing Board Minutes of November 13, 2020

**Presenter:**

Clerk of the Board

**Recommended Action:**

Approval

**Attachments:**      Item 4.a Minutes 20201113



375 Beale Street  
Suite 700  
San Francisco, California  
94105

## Meeting Minutes - Draft

### Bay Area Regional Collaborative

*Chair, Cindy Chavez, Supervisor, County of Santa Clara*  
*Vice Chair, Amy Worth, Vice Mayor, City of Orinda*

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Friday, November 13, 2020

11:00 AM

Board Room - 1st Floor (REMOTE)

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In light of Governor Newsom's State of Emergency declaration regarding the COVID-19 outbreak and in accordance with Executive Order N-29-20 issued by Governor Newsom on March 17, 2020 and the Guidance for Gatherings issued by the California Department of Public Health, the meeting will be conducted via webcast, teleconference, and Zoom for committee, commission, or board members who will participate in the meeting from individual remote locations. A Zoom panelist link for meeting participants will be sent separately to committee, commission, or board members.

The meeting webcast will be available at:

<https://barc.ca.gov/whats-happening/meetings/upcoming-events>

Members of the public are encouraged to participate remotely via Zoom at the following link or phone number. Committee members and members of the public participating by Zoom wishing to speak should use the "raise hand" feature or dial "\*9". In order to get the full Zoom experience, please make sure your application is up to date.

Attendee Link: <https://bayareametro.zoom.us/j/85491898783>

iPhone one-tap US: +16699006833,,97615635241# or +14086380968,,97615635241#

Join by Telephone Dial (for higher quality, dial a number based on your current location): US:  
+1 669 900 6833 or +1 408 638 0968 or +1 346 248 7799 or +1 253 215 8782 or +1 301 715 8592

Webinar ID: 854 9189 8783

International numbers available:

Detailed instructions on participating via Zoom are available at:

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The BARC Governing Board may act on any item on the agenda. Agenda, roster, and webcast available at <https://barc.ca.gov> For information, contact Clerk of the Board at (415) 778-5218.

**Governing Board Members****ABAG—Jesse Arreguin, Scott Haggerty, Julie Pierce, David Rabbitt****BAAQMD—Cindy Chavez, Teresa Barrett, Karen Mitchoff, Rod Sinks****BCDC—John Gioia, Anne Halsted, Dave Pine, Brad Wagenknecht, Zack Wasserman****MTC—Nick Josefowitz, Jake Mackenzie, Jim Spering, Amy Worth****CalSTA (Non-voting)—Tony Tavares, Dina El-Tawansy (Alternate)****1. Call to Order / Roll Call / Confirm Quorum**

Chair Chavez called the meeting to order at about 11:00 a.m. Quorum was present.

**Present:** 15 - Arreguin, Barrett, Chavez, Haggerty, Gioia, Halsted, Josefowitz, Mackenzie, Mitchoff, Pierce, Pine, Sinks, Spering, Wagenknecht, and Worth

**Absent:** 2 - Rabbitt, and Wasserman

**2. Governing Board Member Announcements****3. Chair's Report**

Cindy Chavez gave thanks to transitioning Governing Board Members, Rod Sinks, Julie Pierce, Scott Haggerty and Jake Mackenzie.

**4. Consent Calendar**

**Upon the motion by Board Member Mitchoff and seconded by Board Member Halsted, this was approved the Consent Agenda. The motion carried by the following vote:**

**Aye:** 14 - Arreguin, Barrett, Chavez, Haggerty, Gioia, Halsted, Josefowitz, Mackenzie, Mitchoff, Pierce, Pine, Sinks, Spering and Worth

**Absent:** 3 - Rabbitt, Wagenknecht and Wasserman

**4.a**     [20-1523](#)     Approval of BARC Governing Board Minutes of September 2020

**5. Appointment of Committee to Select BARC Chair and Vice Chair 2021-23**

**5.a**     [20-1527](#)     Appointment of Committee to Select BARC Chair and Vice Chair 2021-23

**Upon the motion by Mitchoff and second by Mackenzie the Appointment of Committee to Select BARC Chair and Vice Chair 2021-23 was approved. The motion passed unanimously by the following votes.**

**Aye:** 15 - Arreguin, Barrett, Chavez, Haggerty, Gioia, Halsted, Josefowitz, Mackenzie, Mitchoff, Pierce, Pine, Sinks, Spering, Wagenknecht and Worth

**Absent:** 2 - Rabbitt and Wasserman

**6. Adopt 2021 BARC Governing Board Schedule**



**6.a**     [20-1526](#)     2021 BARC Governing Board Proposed Meeting Schedule

**Upon the motion by Pine and second by Worth, the BARC Governing Board Schedule for 2021 was passed unanimously by the following vote:**

**Aye:** 14 - Arreguin, Barrett, Chavez, Haggerty, Gioia, Halsted, Josefowitz, Mackenzie, Mitchoff, Pierce, Pine, Sinks, Spering and Worth

**Absent:** 3 - Rabbitt, Wagenknecht and Wasserman

**7. BARC Strategy Session: Facilitated Discussion on High-Priority Issues****7.a**     [20-1528](#)     BARC Strategy Session Agenda

Gina Bartlett of CBI Facilitated a Discussion on High-Priority Issues along with Cindy Chavez and Allison Brooks.

**8. Public Comment**

The following gave public comment: Jed Holtzman.

**9. Adjournment / Next Meeting**

**The next meeting of the Bay Area Regional Collaborative will be held Friday, January 15, 2021 at 10:05 a.m. remotely and by webcast as appropriate depending on the status of any shelter in place orders. Any changes to the schedule will be duly noticed to the public.**

Chair Chavez adjourned the meeting at about 1:25 p.m. The next regular meeting of the BARC Governing Board is on January 15, 2021



## Legislation Details (With Text)

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**File #:** 21-0099      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Committee Approval  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** Approval of appointment of BARC Chair and Vice Chair for 2021-23  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**

Approval of appointment of BARC Chair and Vice Chair for 2021-23

**Presenter:**

Cindy Chavez

**Recommended Action:**

Approval

**Attachments:**



## Legislation Details (With Text)

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**File #:** 21-0169      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 1/6/2021      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** BARC Executive Director's Report

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**

BARC Executive Director's Report

**Presenter:**

Allison Brooks

**Recommended Action:**

Information



## Legislation Details (With Text)

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**File #:** 21-0100      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** Metropolitan Transportation Commission and Association of Bay Area Governments  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**  
Metropolitan Transportation Commission and Association of Bay Area Governments

**Presenter:**  
Therese McMillan, MTC  
**Recommended Action:**  
Information

**Attachments:**



## Legislation Details (With Text)

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**File #:** 21-0101      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** Bay Area Air Quality Management District

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**

Bay Area Air Quality Management District

**Presenter:**

Jack Broadbent, BAAQMD

**Recommended Action:**

Information

**Attachments:**



## Legislation Details (With Text)

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**File #:** 21-0102      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** San Francisco Bay Conservation and Development Commission  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:**

Date	Ver.	Action By	Action	Result
------	------	-----------	--------	--------

**Subject:**  
San Francisco Bay Conservation and Development Commission

**Presenter:**  
Larry Goldzband, BCDC

**Recommended Action:**  
Information

**Attachments:**



## Legislation Details (With Text)

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**File #:** 21-0106      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Informational  
**File created:** 12/10/2020      **In control:** Bay Area Regional Collaborative  
**On agenda:** 1/15/2021      **Final action:**  
**Title:** California State Coastal Conservancy

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:**

Date	Ver.	Action By	Action	Result
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**Subject:**

California State Coastal Conservancy

**Presenter:**

Sam Schuchat, State Coastal Conservancy

**Recommended Action:**

Information

**Attachments:**



## Legislation Details (With Text)

<b>File #:</b>	21-0104	<b>Version:</b>	1	<b>Name:</b>	
<b>Type:</b>	Report	<b>Status:</b>		Informational	
<b>File created:</b>	12/10/2020	<b>In control:</b>		Bay Area Regional Collaborative	
<b>On agenda:</b>	1/15/2021	<b>Final action:</b>			
<b>Title:</b>	Municipal Regional National Pollutant Discharge Elimination System Stormwater Permit Reissuance: Status Update and Focus on Resilient Green Infrastructure				
<b>Sponsors:</b>					
<b>Indexes:</b>					
<b>Code sections:</b>					
<b>Attachments:</b>	<a href="#">BARC GB 7e Water Board Presentation 011521.pdf</a>				

Date	Ver.	Action By	Action	Result
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### Subject:

Municipal Regional National Pollutant Discharge Elimination System Stormwater Permit Reissuance:  
Status Update and Focus on Resilient Green Infrastructure

### Presenter:

Keith Lichten, Division Chief, SF Bay Regional Water Quality Control Board  
Matt Fabry, Manager, San Mateo Countywide Water Pollution Prevention Program  
Josh Bradt, Environmental Planner, San Francisco Estuary Partnership  
Robin Grossinger, Senior Scientist, San Francisco Estuary Institute

### Recommended Action:

Information

### Attachments:



The background image shows a city waterfront scene. In the foreground, there is a green lawn with a black bench. A paved walkway runs along a body of water, where a person is walking. In the middle ground, a large fountain with multiple jets of water is active. The background features several modern buildings, including a prominent one with a curved glass facade. The sky is clear and blue.

**BARC.**

# **Municipal Regional Stormwater NPDES Permit: Reissuance and Resilient Green Infrastructure**

**January 15, 2021**

**Keith Lichten**  
**SF Bay Regional Water Quality  
Control Board**

# Overview

- Background and schedule
- Key issues
  - COVID-19
  - Trash
  - New and redevelopment
- Key tool: Resilient green infrastructure



# MRP Background

- MRP covers 79 permittees
- First stormwater permits issued early 1990s
- MRP 1 adopted 2009
- MRP 2 adopted 2015

# MRP Reissuance

## A Collaborative Stakeholder Process

### Steering Committee & Workgroups

- Meetings started late 2018/early 2019

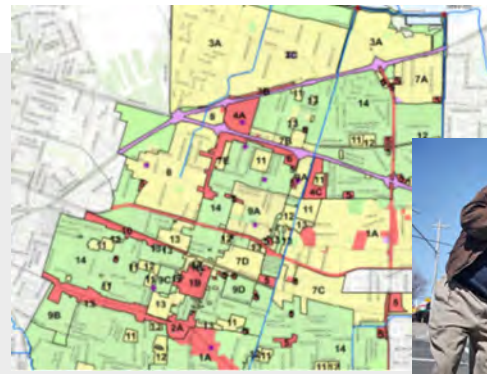
### Upcoming Schedule

- Early 2021: administrative draft for informal comment
- Summer 2021
  - Public draft for formal comment
  - Board testimony hearings
- Late 2021: Board adoption hearing
- July 1, 2022: Target effective date of reissued permit.



# Key issues

- COVID-19 impacts
- Trash, PCBs, homelessness
- New and redevelopment
- Key tool: Resilient green infrastructure





# New and Redevelopment

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- Green Infrastructure Plans – *implement plans*
  - *"Greened acres" requirement*
- Low Impact Development design – continues
- “Regulated projects”
  - *5,000 square feet* of impervious surface
  - Special Projects – *reduce scope*
  - Revised expectations for large roads projects and large single-family homes
- Alternative compliance – *recognize grant-funded project*



# Opportunity: Resilient Green Infrastructure Multi-benefit implementation







**Women**  
(18-45 Years)

**Children**  
(1-17 Years)

**2** TOTAL  
SERVINGS  
A WEEK

OR

**1** TOTAL  
SERVING  
A WEEK

**0** DO NOT  
EAT



California Office of  
Environmental Health  
Hazard Assessment

web [www.oehha.ca.gov/fish](http://www.oehha.ca.gov/fish)  
email [fish@oehha.ca.gov](mailto:fish@oehha.ca.gov)  
phone (916) 324-7572

## A GUIDE TO EATING FISH *from* SAN FRANCISCO BAY

(ALAMEDA, CONTRA COSTA, MARIN, NAPA, SAN FRANCISCO, SAN MATEO, SANTA CLARA, SOLANO, SONOMA COUNTIES)

**WOMEN 18 - 45 YEARS AND  
CHILDREN 1 - 17 YEARS**

### Eat the Good Fish

Eating fish that are  
low in chemicals  
may provide health  
benefits to children  
and adults.



### Avoid the Bad Fish

Eating fish with higher  
levels of chemicals like  
mercury or PCBs may  
cause health problems  
in children and adults.



### Choose the Right Fish

Chemicals may  
be more harmful  
to unborn babies  
and children.



Brown rockfish



Chinook (King) Salmon

♥ high in omega-3s



Jacksmelt



Red rock crab



California halibut



White croaker



Sharks



White sturgeon



Surfperches



Striped Bass

### Serving Size

A serving of fish is  
about the size and  
thickness of your  
hand. Give children  
smaller servings.

### For Adults



### For Children



Some chemicals  
are higher in the  
skin, fat, and guts

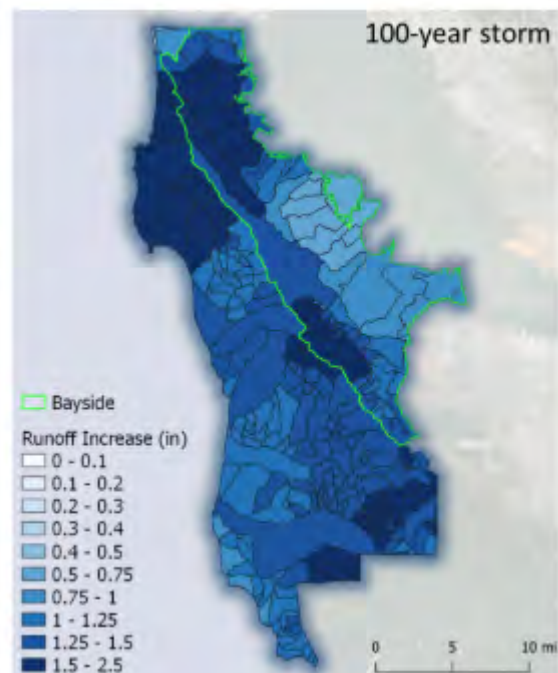
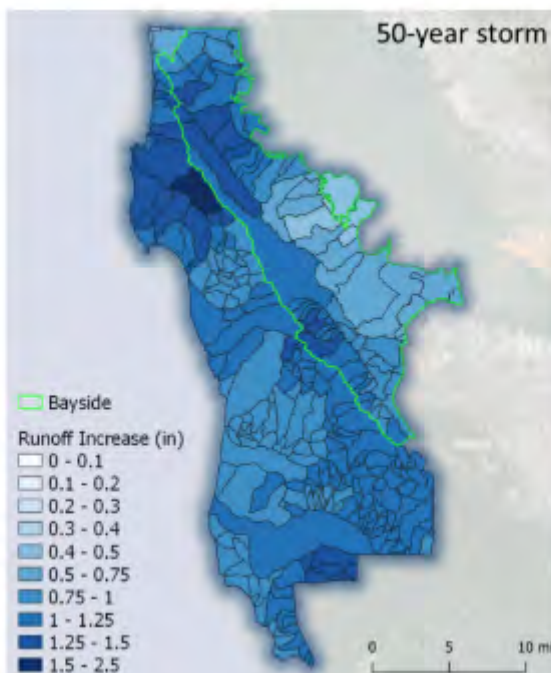
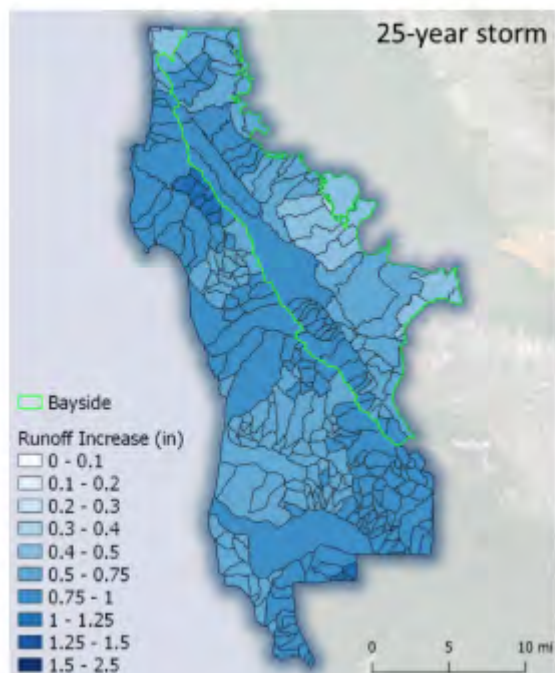
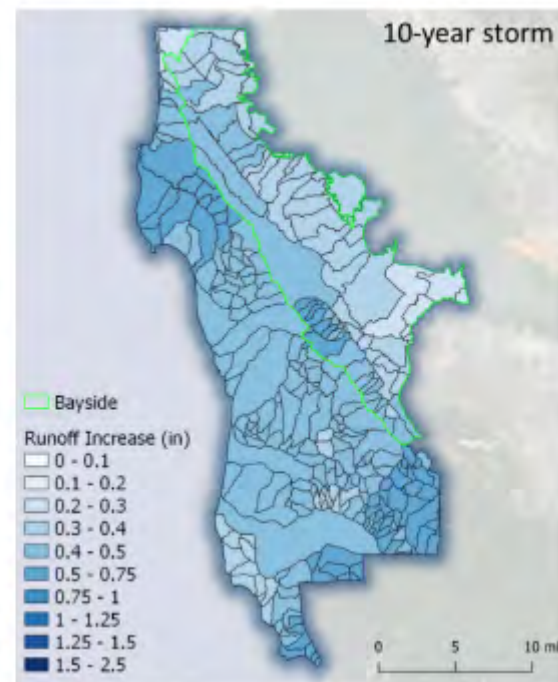
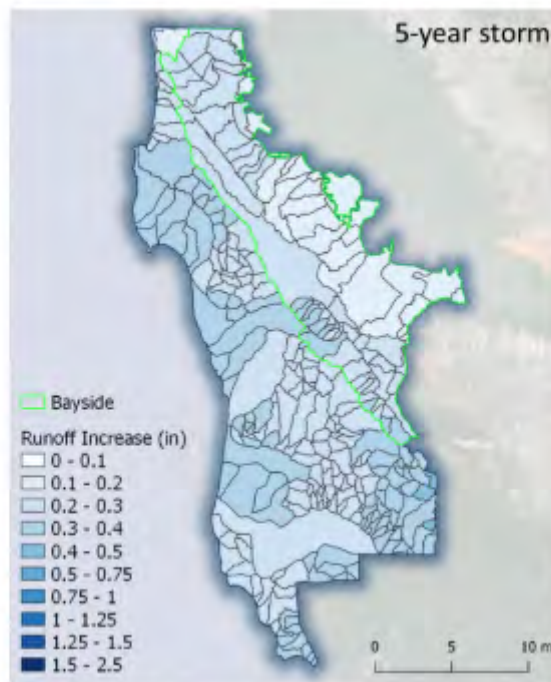
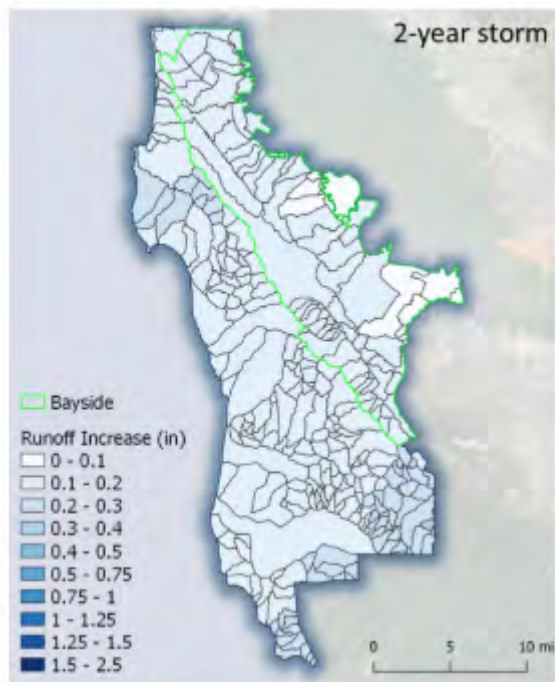
### Eat only the skinless fillet



### Eat only the meat









# *Multi-Scale Stormwater Management*

**Parcel**



**Street**



**Regional**



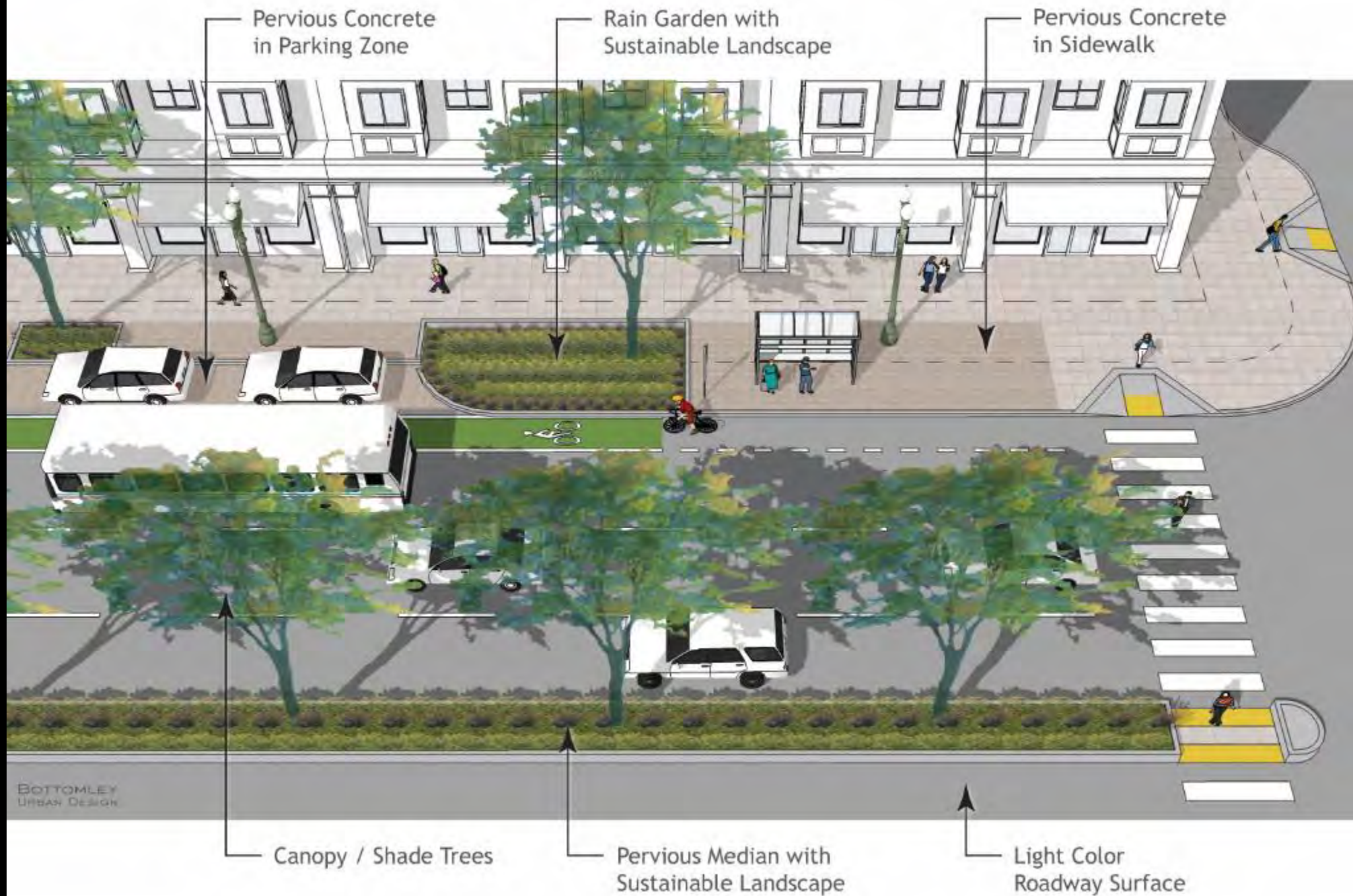




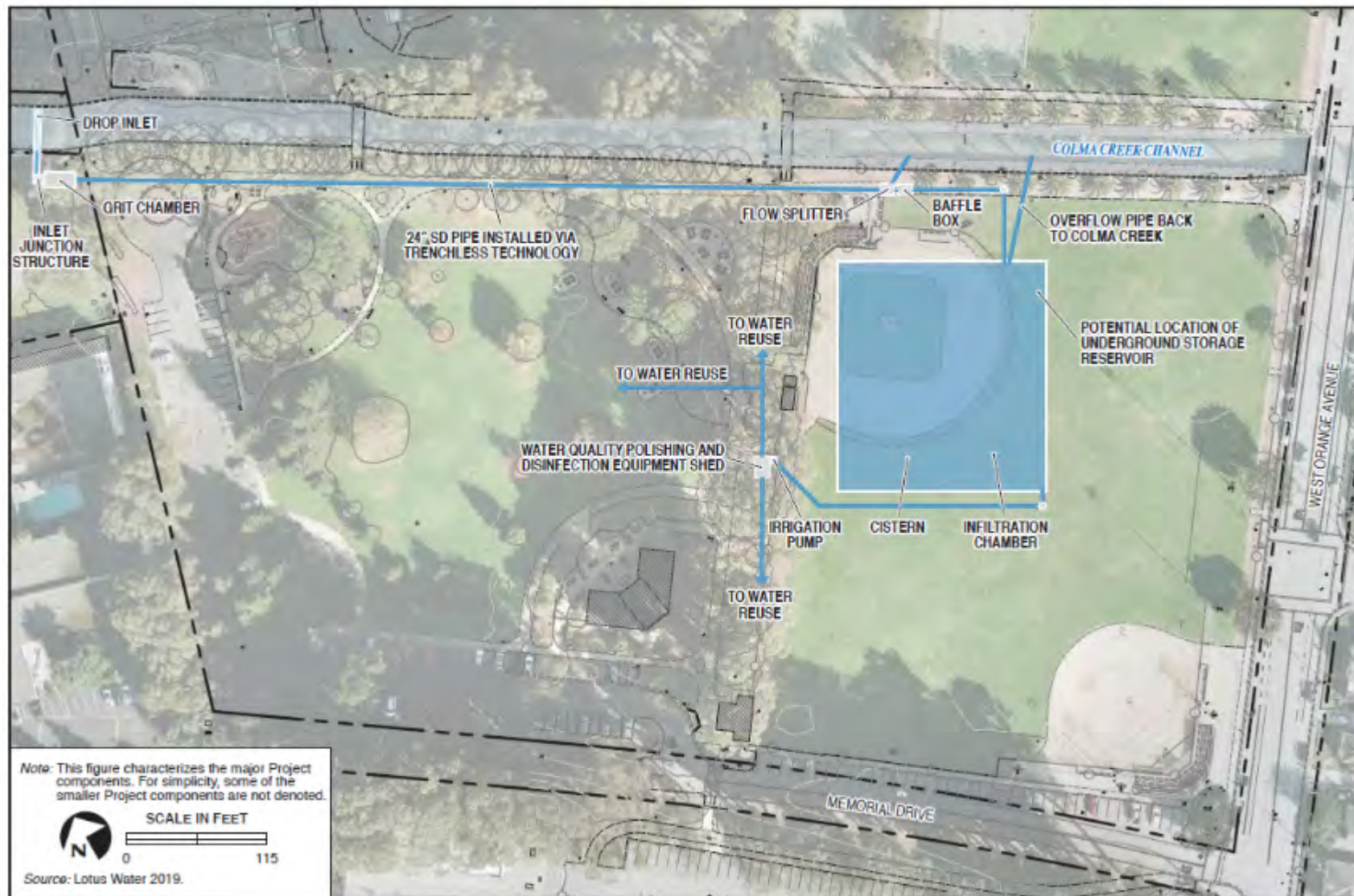
*Rain Garden  
Brisbane City Hall*













# *How do we work together to collaboratively manage stormwater?*







- **Improve Water Quality**
- **Reduce Runoff Volumes**
- **Improve Pedestrian Safety & Experience**
- **Reduce Heat Islands**
- **Improve Street Aesthetics**
- **Increase Public Awareness of Stormwater**

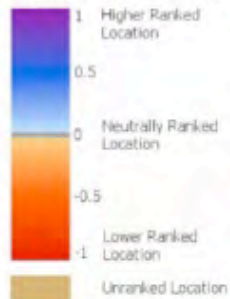


**GREEN STORMWATER INFRASTRUCTURE BENEFITS**

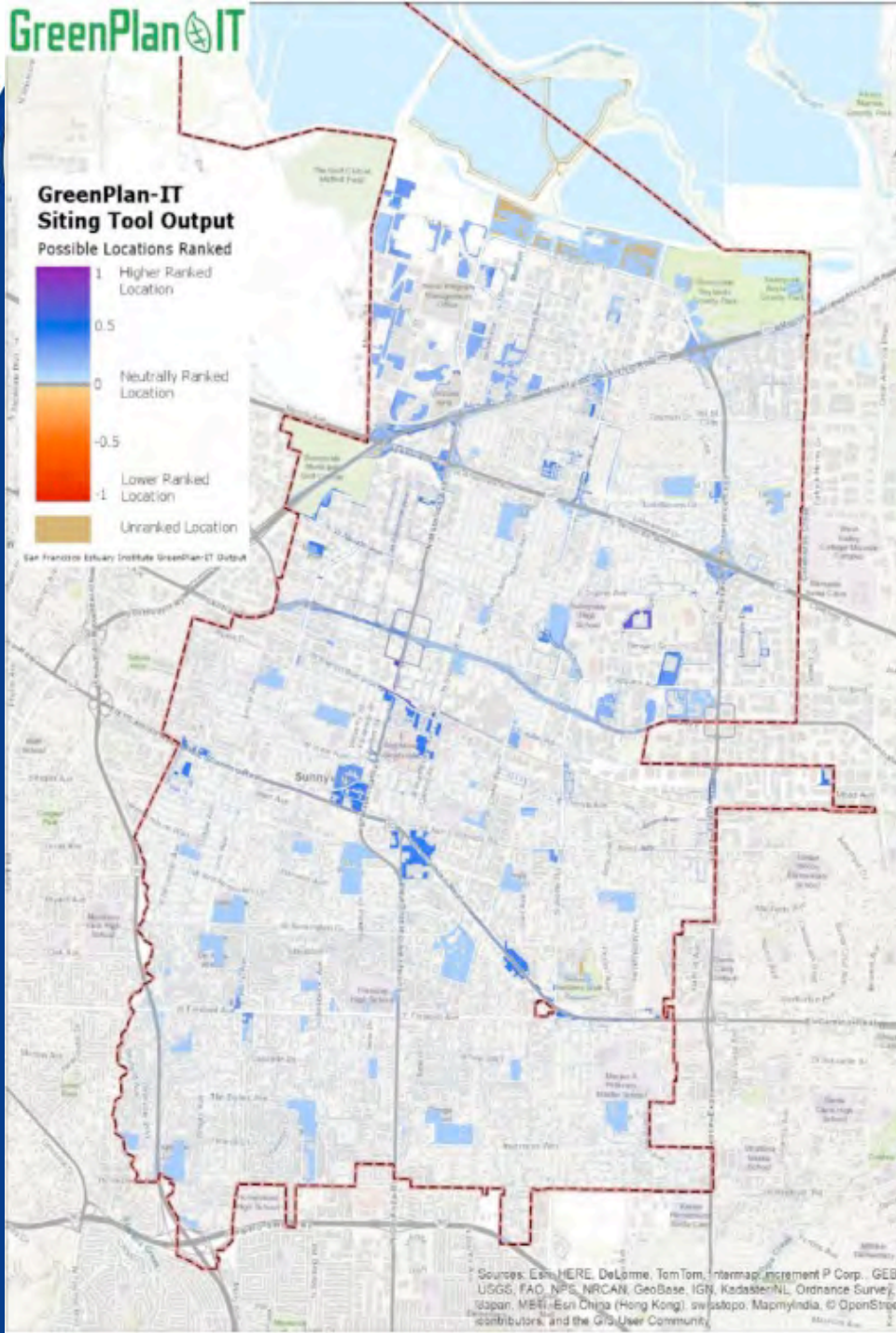


# GreenPlan-IT Siting Tool Output

Possible Locations Ranked



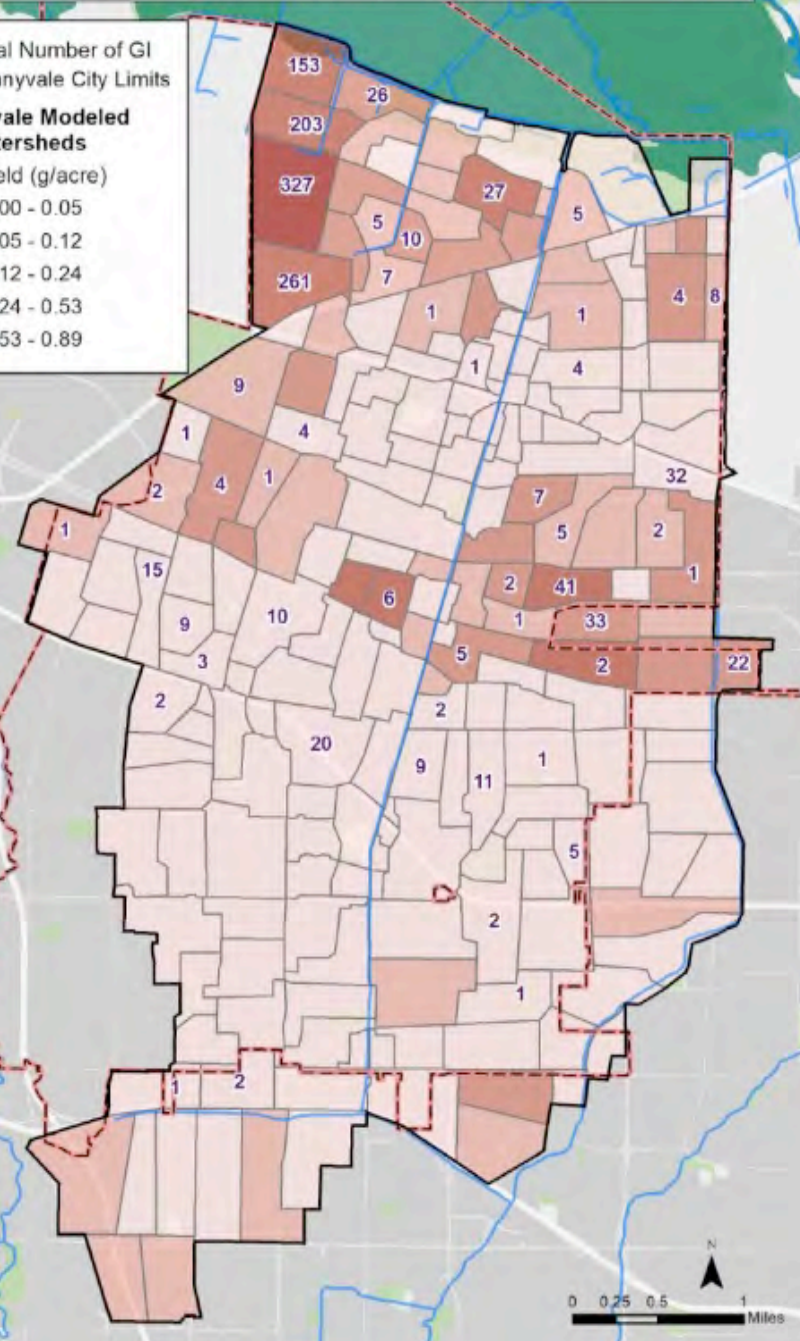
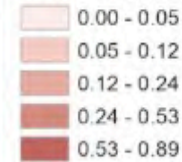
San Francisco Estuary Institute GreenPlan-IT Output



# Total Number of GI  
Sunnyvale City Limits

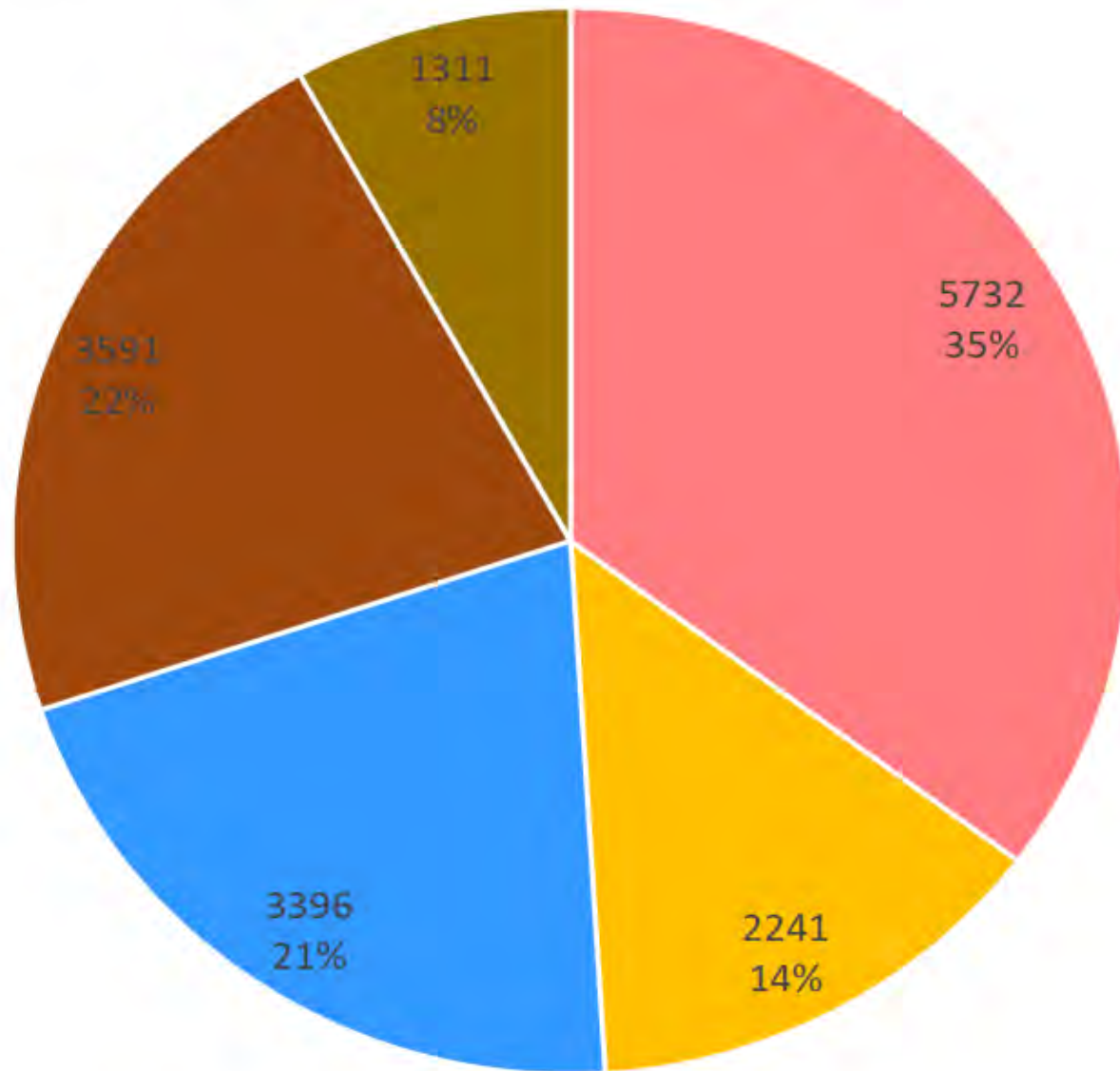
## Sunnyvale Modeled Subwatersheds

PCB Yield (g/acre)





## Proposed Impervious Area Treated (acres) by 2040, by County



■ Alameda

■ Contra Costa

■ San Mateo

■ Santa Clara

■ Solano

# Challenges for Widespread GSI Implementation



- Personnel and agency inexperience
- Costly as a standalone retrofit project
- Funding and capacity constraints
- Physical space and drainage constraints:
  - Water Quality credit sizing requirements
  - Utility information, coordination, relocation
- Multiple jurisdictions, stakeholders, and risks in public right-of-way
- How is progress tracked regionally?



# Berkeley Site Rendering





TURN  
ONLY





# GREEN STREETS BLUE BAY

## EMERYVILLE GREEN STREET WATERSHED

Stormwater from the shaded 2 acre area indicated on the map is collected and cleared by this Green Street.



## BEFORE THE GREEN STREET



# Next Generation Urban Greening



**Robin Grossinger**

Urban Nature Lab  
San Francisco Estuary Institute

January 15, 2021

*In the future, our green infrastructure will need to do more:*

- Clean stormwater and flood protection
- Urban heat mitigation
- Health and well-being
- Equitable access to nature



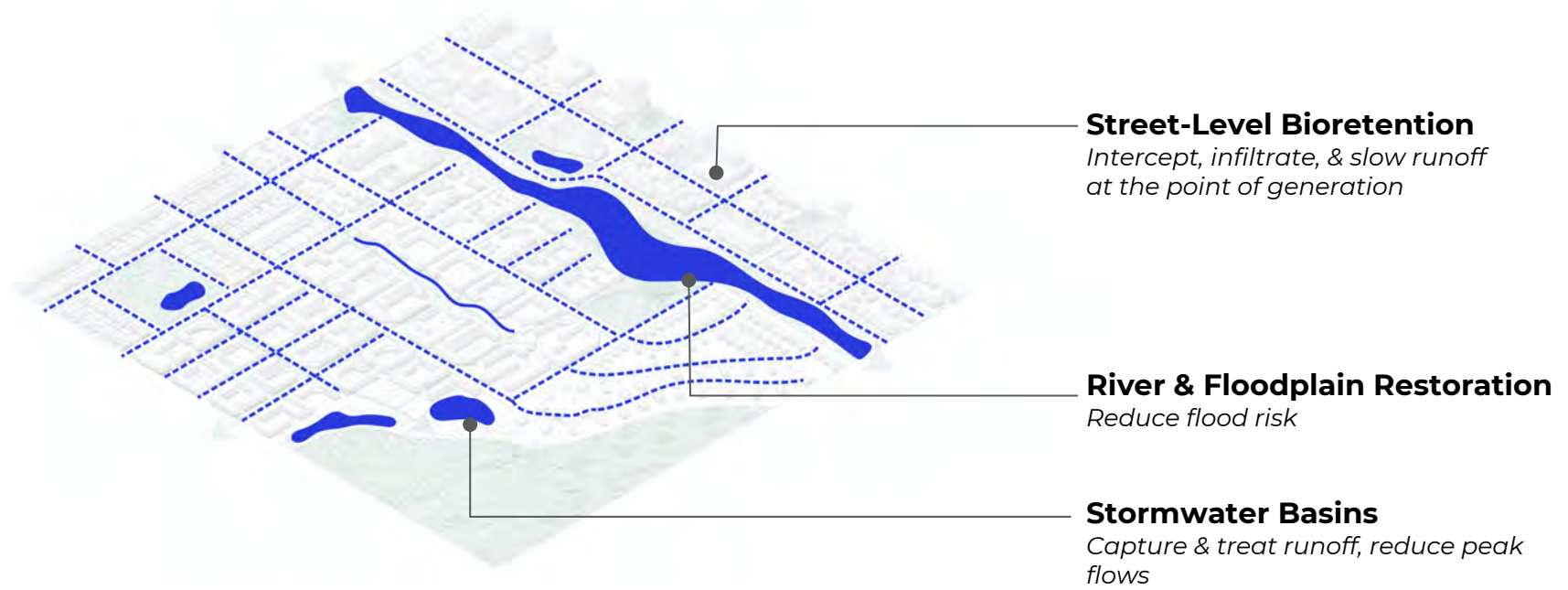


*Networks of GI to support these critical functions across the urban landscape*

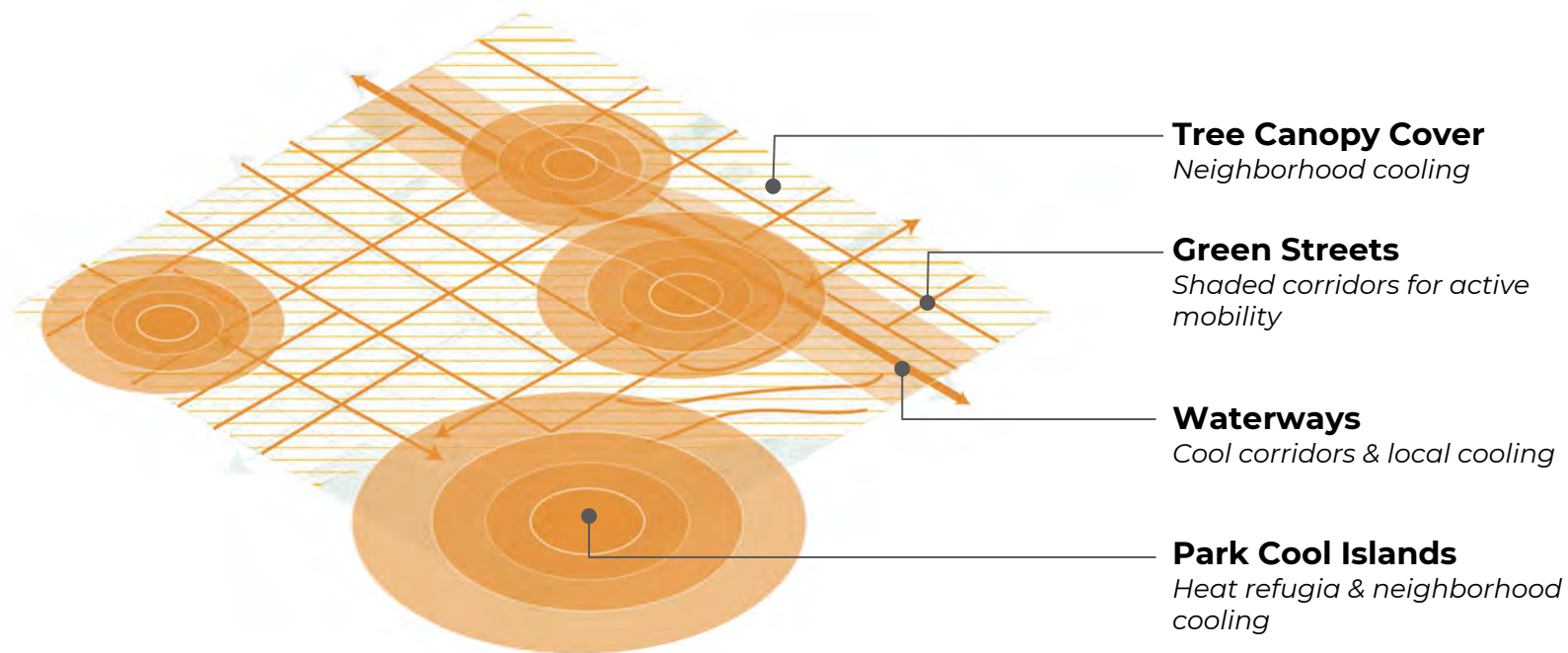




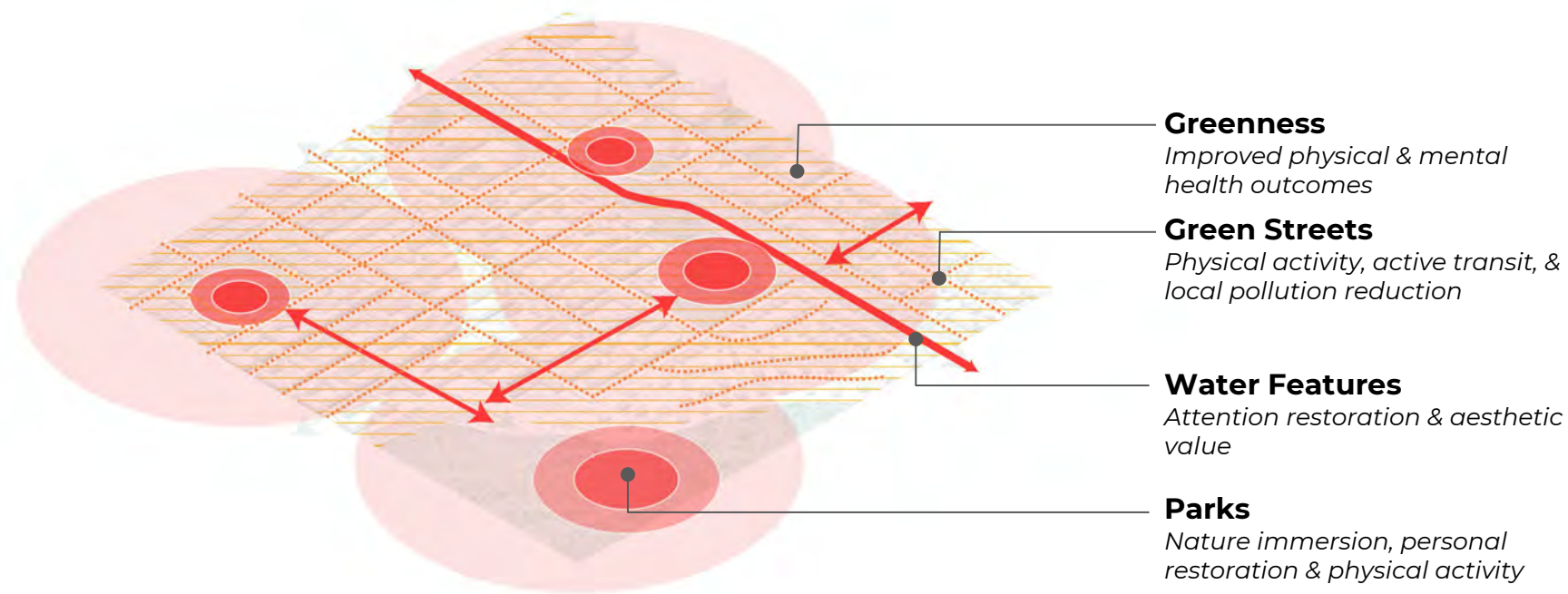
## Benefit: **Stormwater Management**



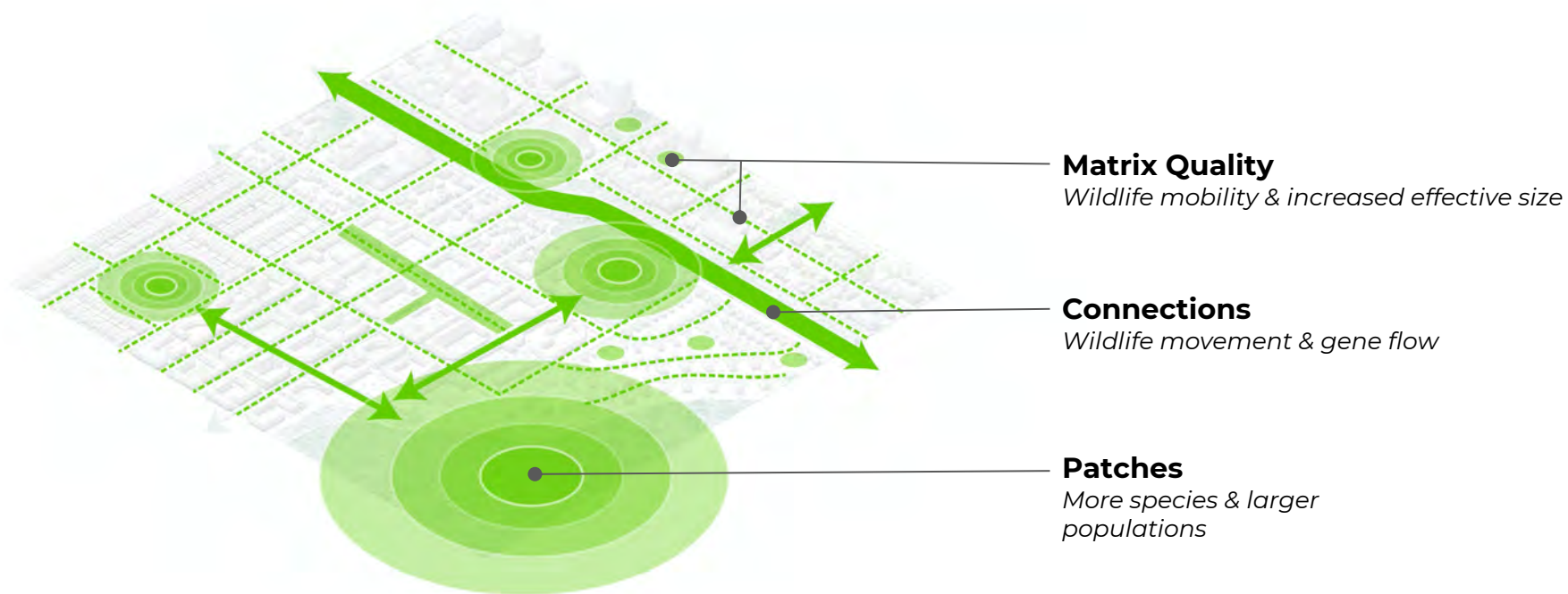
## Benefit: **Heat Mitigation**



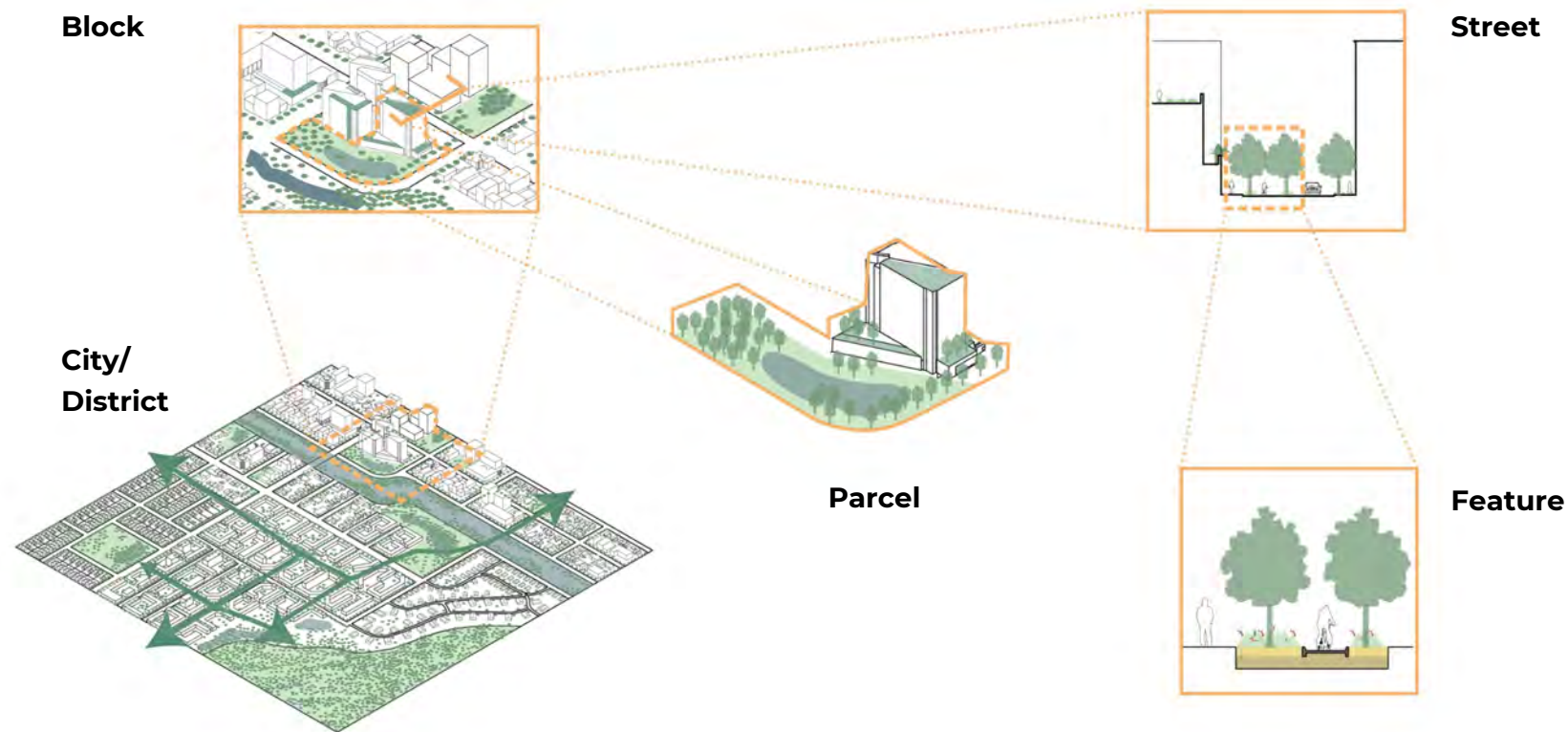
## Benefit: **Health**



## Benefit: **Biodiversity**



APPROACH  
Multi-Scalar



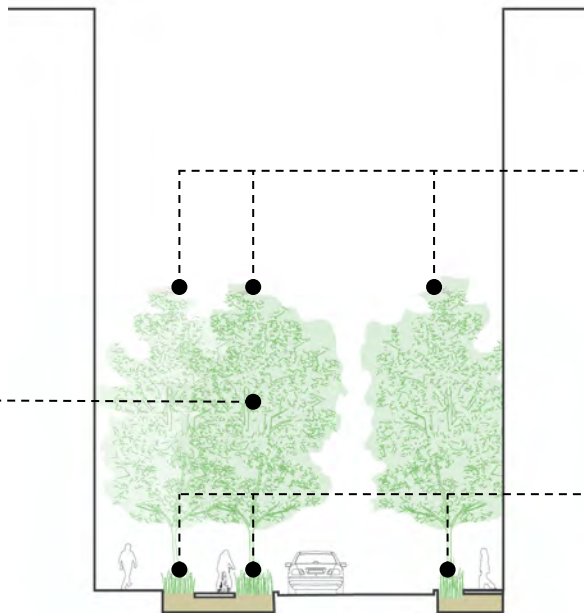
## *Example Guidance for a Model Resilient Street*

### **Tree Selection**

- Mix of large and small trees
- Dense canopies
- Avoid trees that produce high volumes of allergenic pollen
- Prioritize native species

### **Landscape Area**

- At least 100 ft<sup>2</sup> plantable surface area per tree
- At least 1,000 ft<sup>3</sup> rooting volume per tree

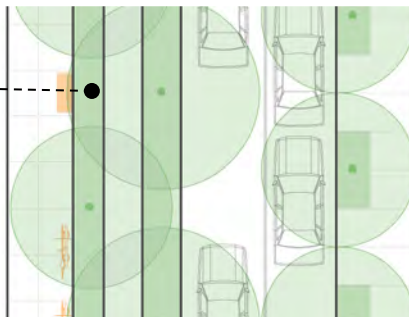


### **Tree Placement**

- Continuous canopy (75% target)
- Gaps <100 ft
- Trees on both sides of street

### **Understory Vegetation**

- Shrubs between road and bike path
- Flowering plants for pollinators and aesthetic enjoyment
- Buffer wide enough for canopy trees







# Next Generation Urban Greening

**EPA WQIF-Funded Project  
2020 - 2024**



# Partners and Participants

- US EPA San Francisco Bay Water Quality Improvement Fund
- SF Bay Regional Water Quality Control Board

## City of San Francisco

- SF Public Utilities Commission
- SF Rec and Parks Department
- SF Department of the Environment
- SF Public Works

## MRP Stormwater Programs

- Oakland Watershed and Stormwater Management Division
- Santa Clara Valley Urban Runoff Pollution Prevention Program
- San Mateo Countywide Water Pollution Prevention Program

## Other

- Visitacion Valley Greenway
- CNPS - Yerba Buena
- Golden Gate Audubon Society
- SF Bay Regional Monitoring Program
- State Coastal Conservancy
- Ocean Protection Council
- SPUR
- Univ. of Washington, Center for Urban Waters
- University of Toronto
- Google Ecology Program

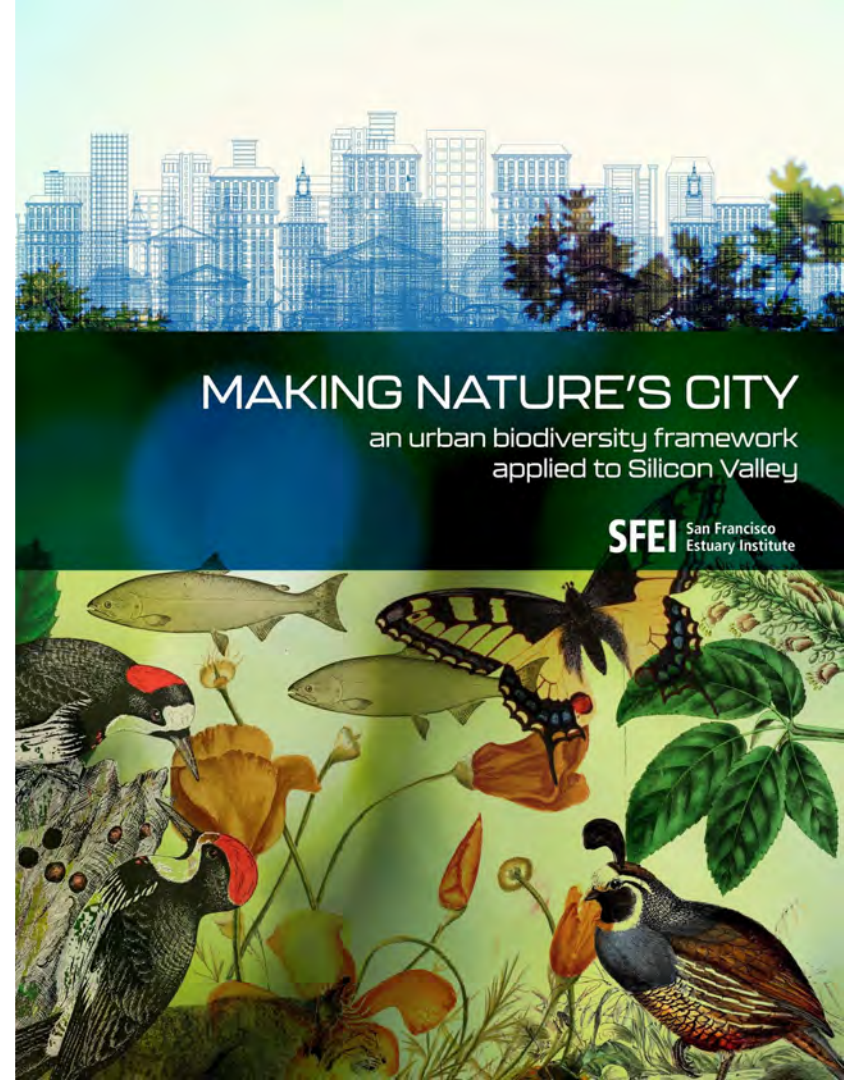


# Building on

- Urban Biodiversity Framework
- Integrated Nature Design Guidance
- GreenPlan-IT
- Microplastics research



*USEPA, Google Ecology Program, Robert Wood Johnson Foundation, Bay RMP*



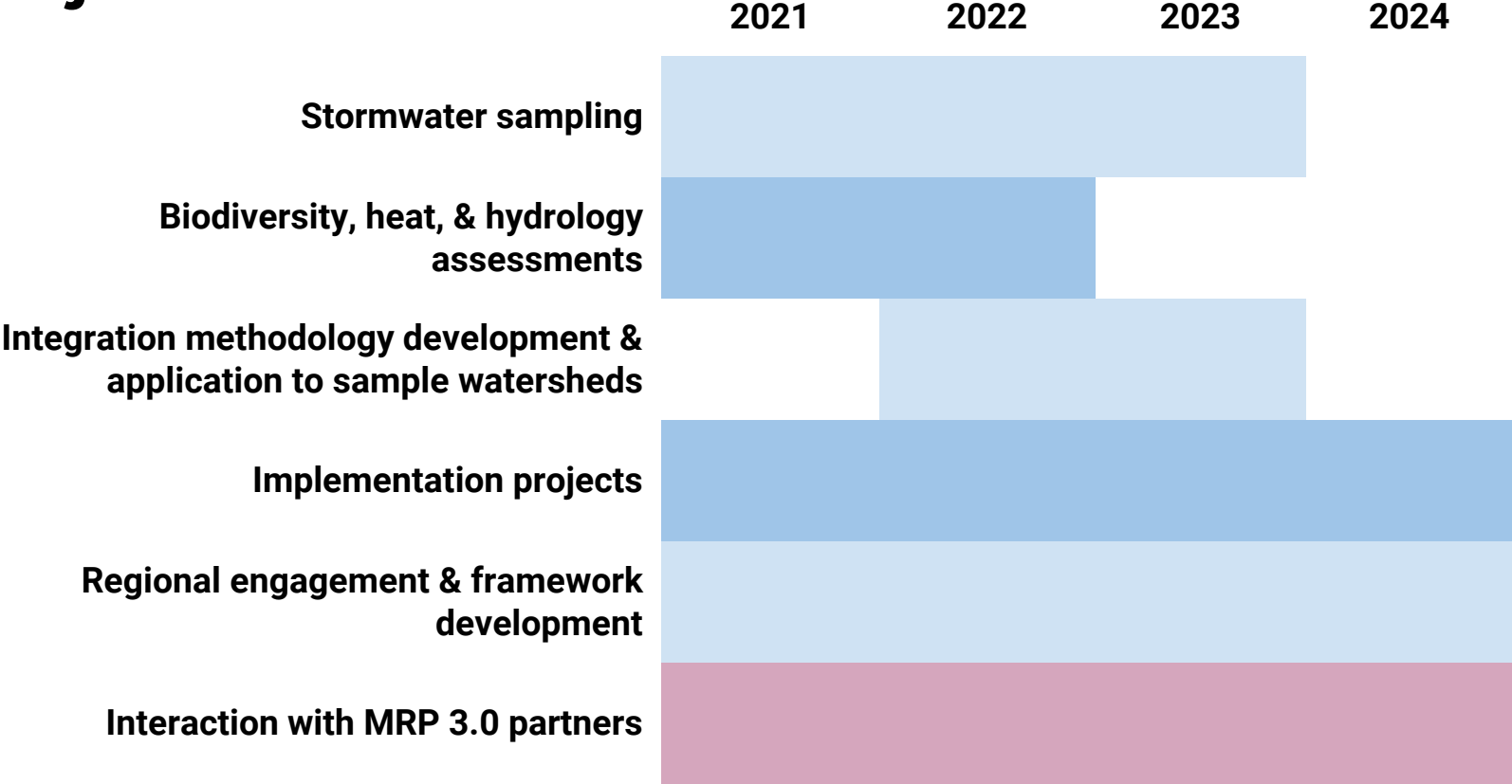
# Key Products

- **Methodology for multi-benefit Resilient GI planning** in the San Francisco Bay Area
- Model Next Generation Urban Greening **Watershed Strategy**
- New tech guidance for **GSI removal of microplastics** and emerging contaminants
- Demonstration **implementation projects**



Tanner Springs Park  
Portland, OR

# Project Timeline



# THANK YOU

[robin@sfei.org](mailto:robin@sfei.org)

[meganw@sfei.org](mailto:meganw@sfei.org)

[www.sfei.org/rl/unl](http://www.sfei.org/rl/unl)