

# LOS ANGELES RIVER

## MASTER PLAN UPDATE

Long Beach Sustainability Commission



04 December 2019

# TODAY'S MEETING AGENDA

1

INTRO TO THE  
MASTER PLAN

2

WHAT WE HEARD

3

MASTER PLAN  
PROGRESS

4

WHAT'S IN  
THE PLAN



# INTRO TO THE MASTER PLAN



THE LA RIVER FLOWS FOR  
51 MILES FROM CANOGA  
PARK TO LONG BEACH.  
WE ARE HERE AT MILE 0.



Source: Geosyntec, OLIN



# WHY DOES THE LA RIVER NEED AN UPDATED MASTER PLAN?



Source: Leaders from Anahauk Youth Sports Association and William C. Velazquez Institute Los Angeles State Historic Park Camp Out and Rio de Los Angeles State Park Walkathon Earth Day 2011. <https://www.flickr.com/photos/cityprojectca/5632710989>



# PREVIOUS PLANNING

## LOWER LA RIVER REVITALIZATION PLAN



**COMMUNITY ECONOMICS, HEALTH & EQUITY**



**PUBLIC REALM**



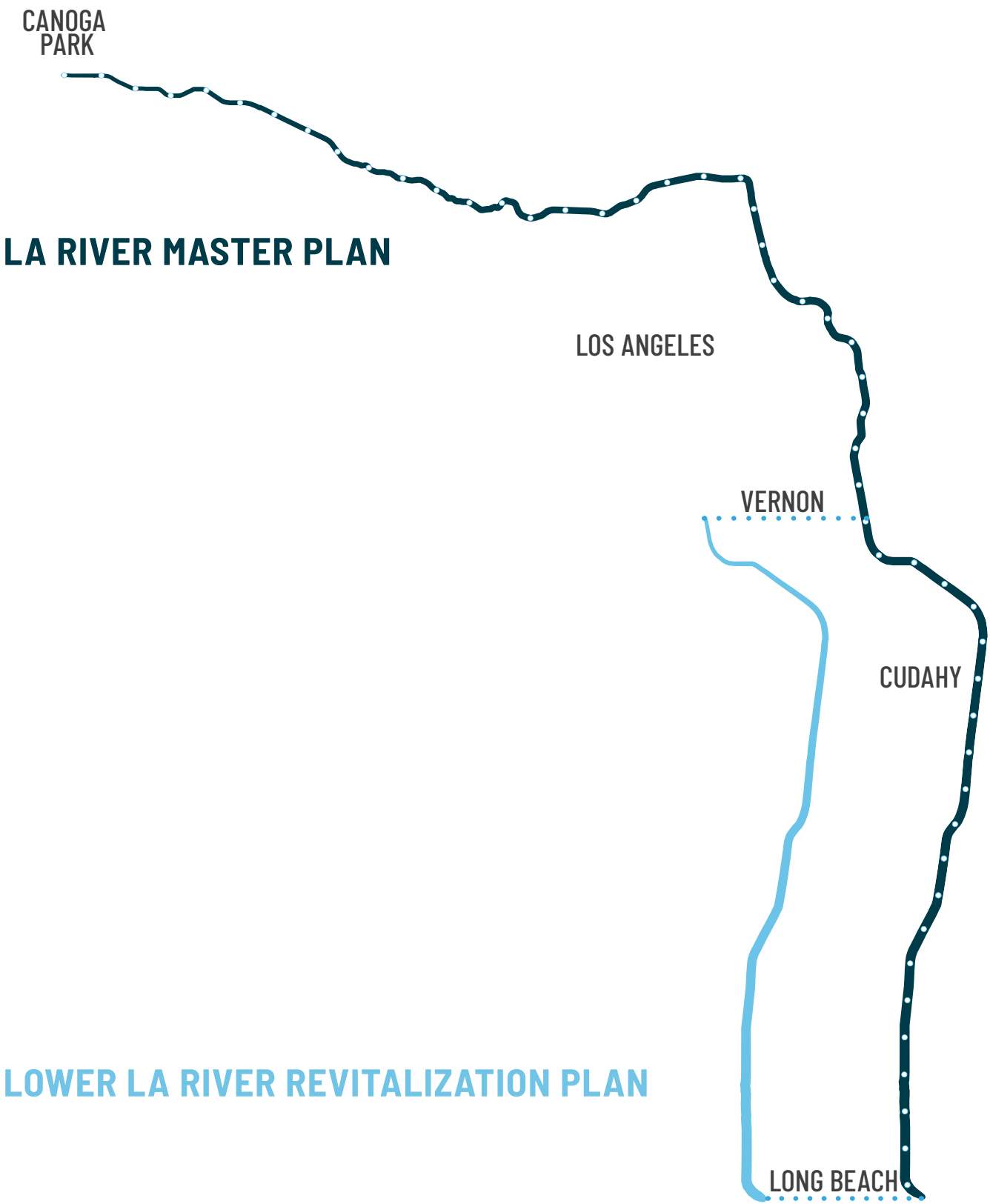
**WATER AND ENVIRONMENT**



# PREVIOUS PLANNING

LOWER LA RIVER REVITALIZATION PLAN

THE LOS ANGELES RIVER MASTER PLAN  
UPDATE WILL SUPPORT AND BUILD ON THE  
RECOMMENDATIONS OF THE LOWER LA RIVER  
REVITALIZATION PLAN.



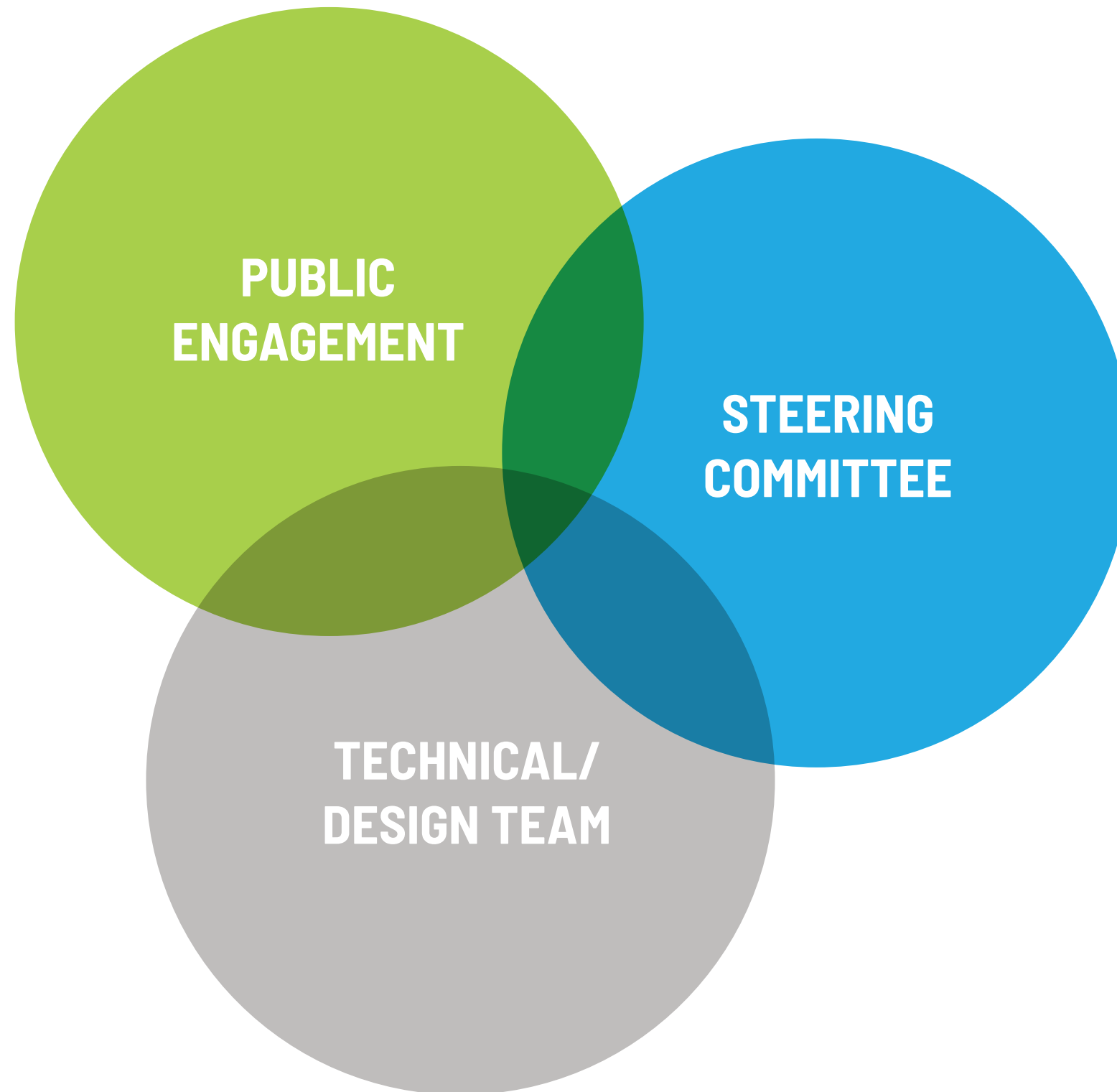
# RELEVANT PLANNING EFFORTS

140+

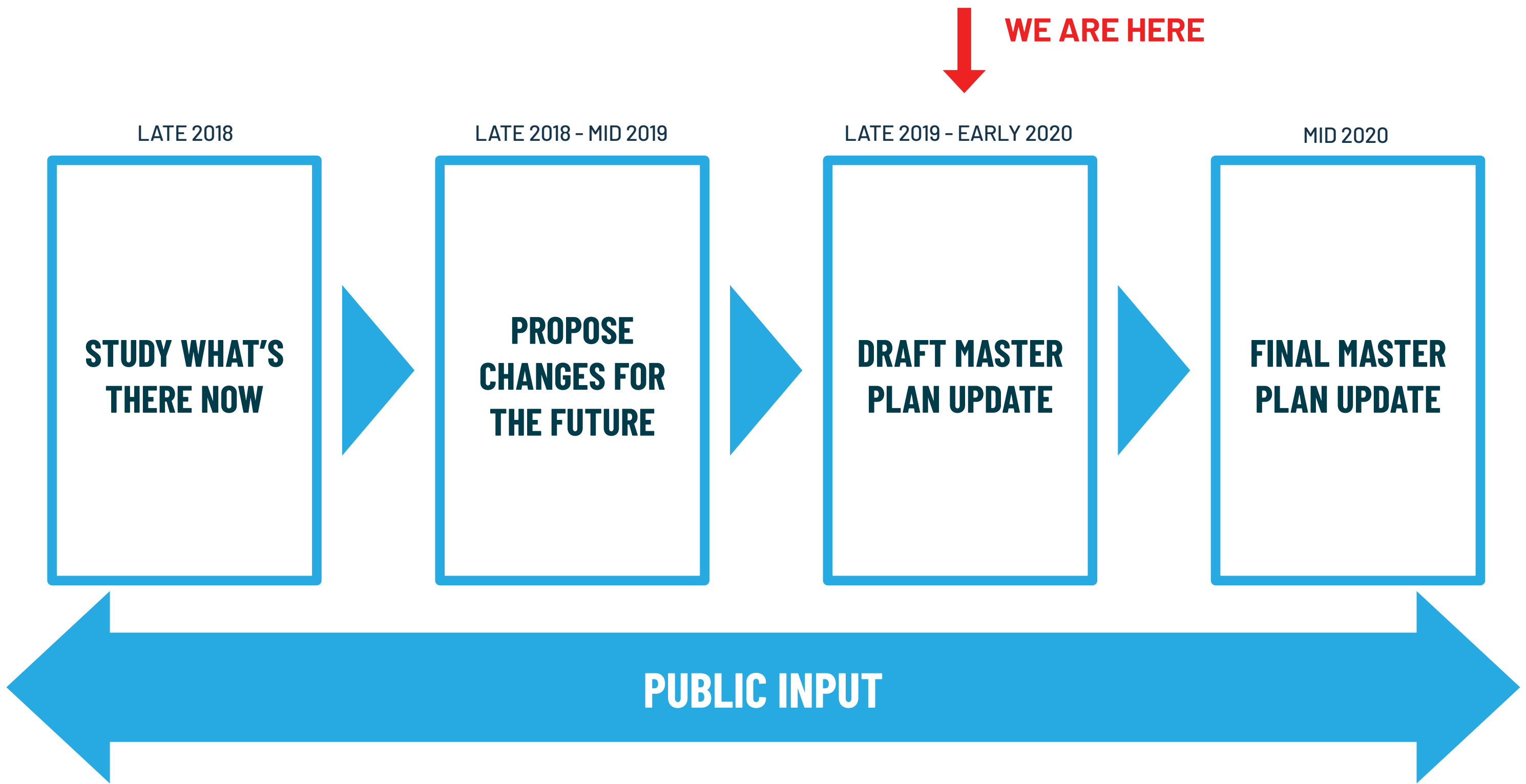
NUMBER OF DOCUMENTS REVIEWED AS PART OF LARMP LITERATURE REVIEW



# PLAN INPUT

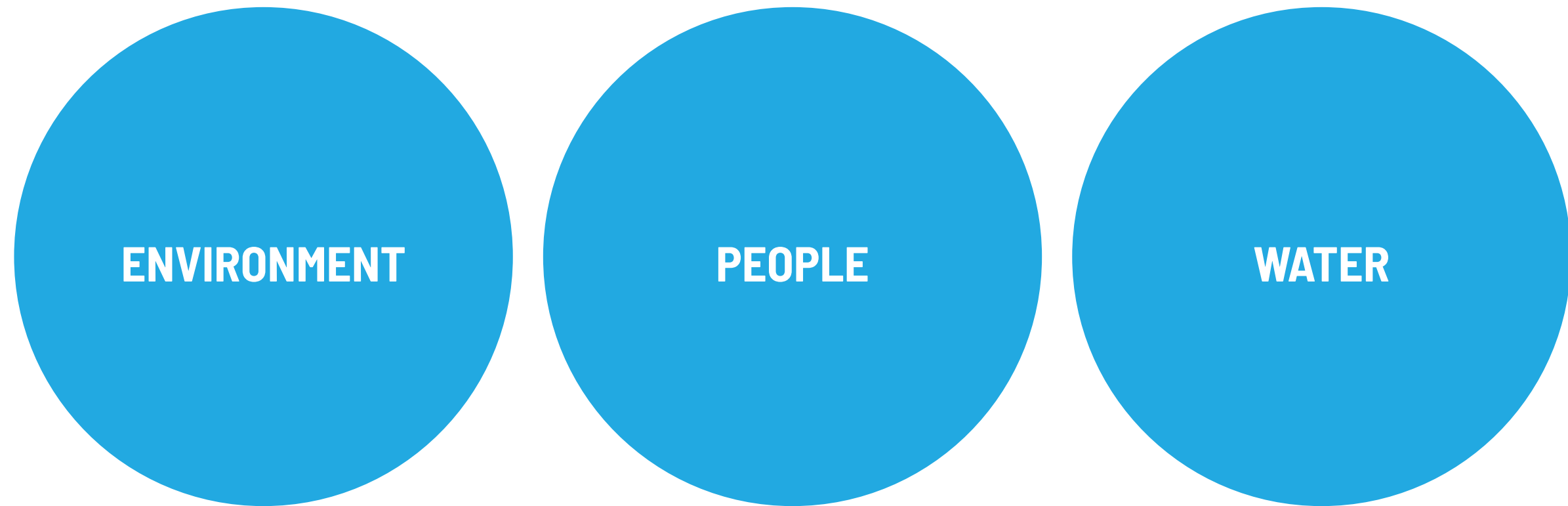


# PROJECT SCHEDULE





# PLAN TOPICS



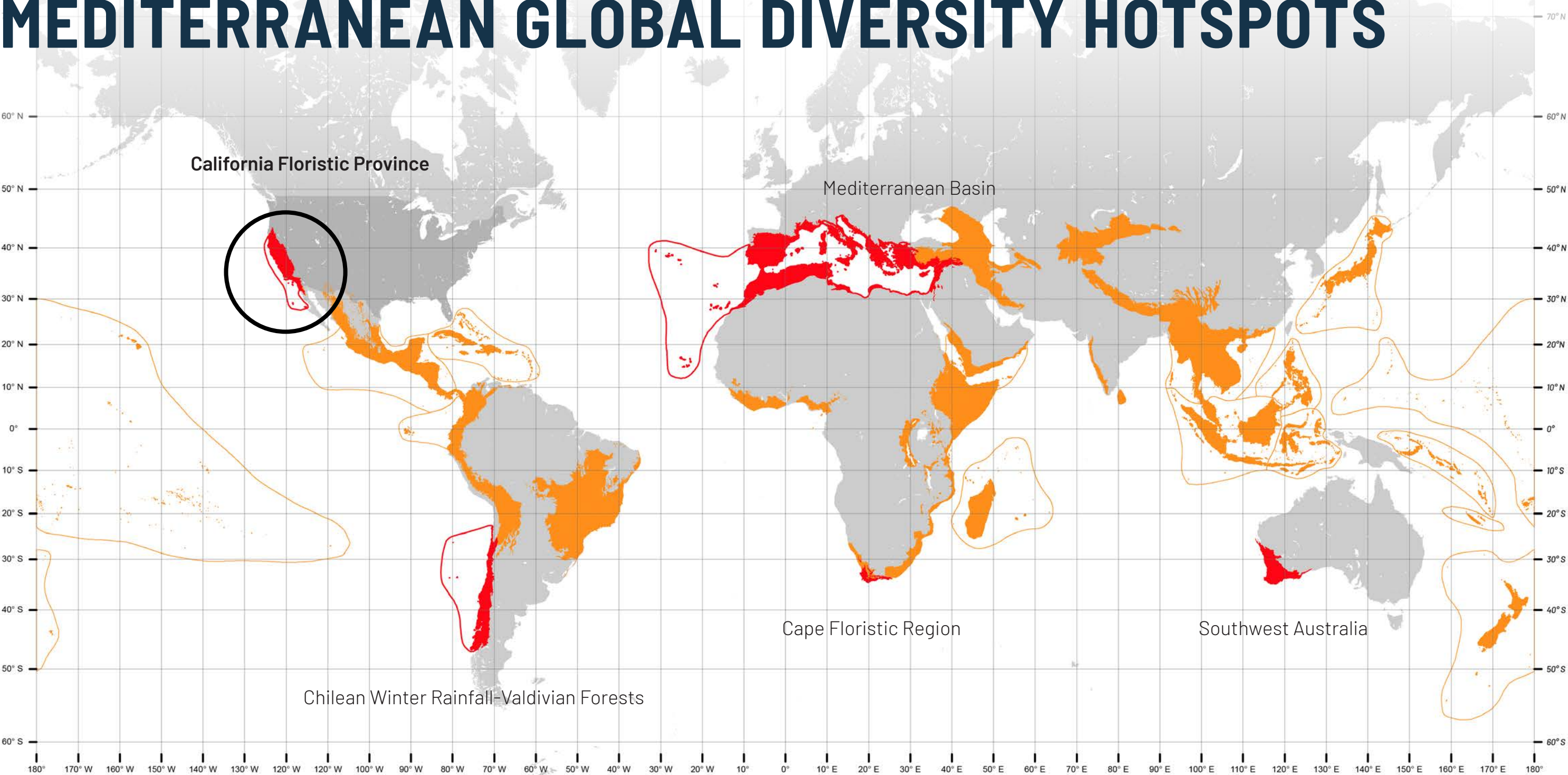
# ENVIRONMENT



Source: Map Pixel, Usa California Landscape Los Angeles, <https://www.maxpixel.net/Usa-California-Landscape-Los-Angeles-2246245>



# THE CALIFORNIA FLORISTIC PROVINCE IS 1 OF 5 OF MEDITERRANEAN GLOBAL DIVERSITY HOTSPOTS



Source: Conservation International, Biodiversity Hotspots Revisited, 2004



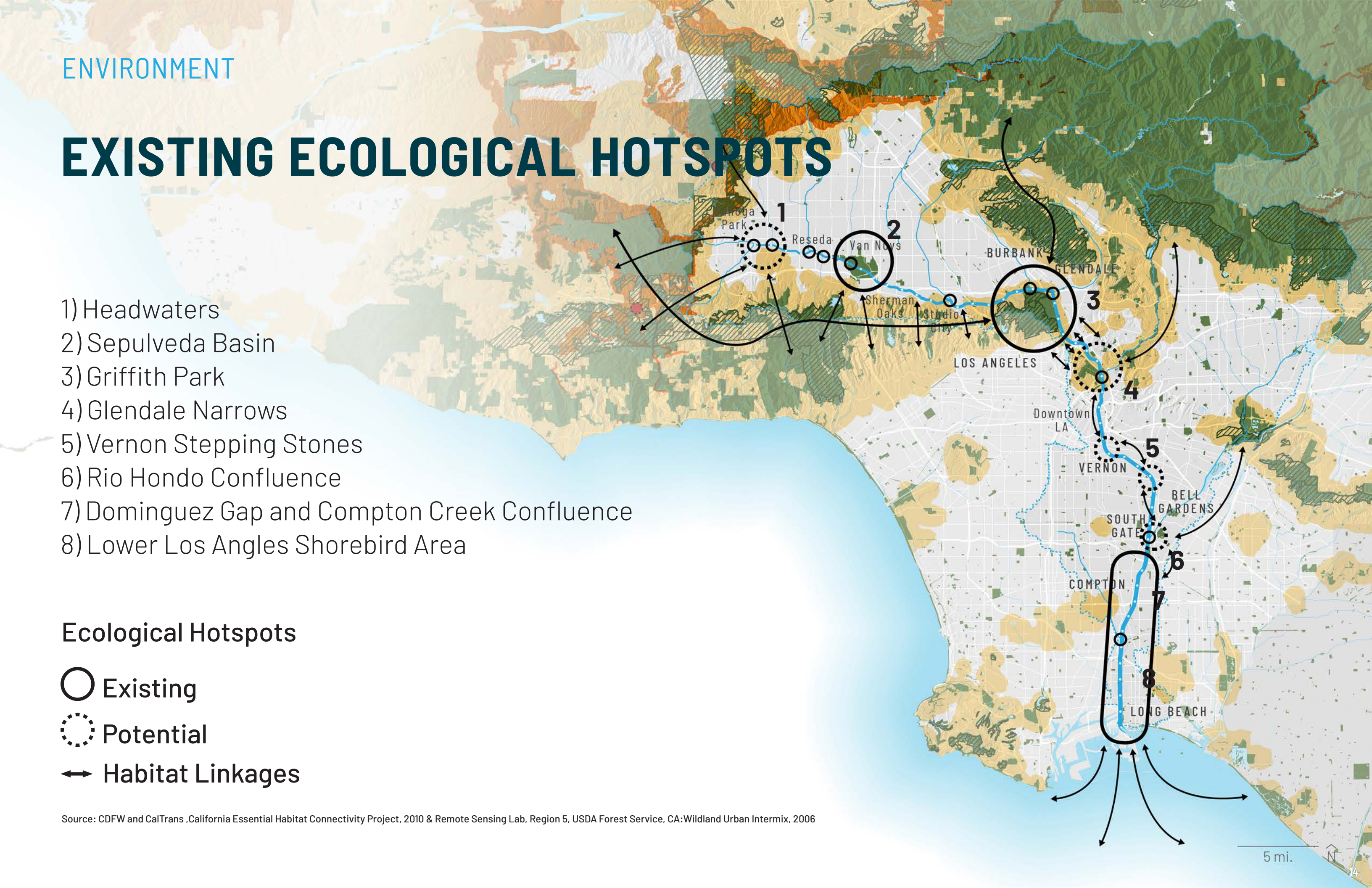
# EXISTING ECOLOGICAL HOTSPOTS

- 1) Headwaters
- 2) Sepulveda Basin
- 3) Griffith Park
- 4) Glendale Narrows
- 5) Vernon Stepping Stones
- 6) Rio Hondo Confluence
- 7) Dominguez Gap and Compton Creek Confluence
- 8) Lower Los Angeles Shorebird Area

## Ecological Hotspots

- Existing
- ⦿ Potential
- ↔ Habitat Linkages

Source: CDFW and CalTrans ,California Essential Habitat Connectivity Project, 2010 & Remote Sensing Lab, Region 5, USDA Forest Service, CA:Wildland Urban Intermix, 2006





# PEOPLE



Source: Dusadee Corhiran, Twitter User: @DCorhiran, <https://pbs.twimg.com/media/DE0xDU9UMAA3nVX.jpg>, 2017



# EXISTING PARK NEED

**1) PARK LAND**

How many acres of park (local parks and regional recreation park) are there per 1,000 people in the Study Area?

**2) PARK ACCESS**

What percent of the population lives within 1/2 mile of a park?

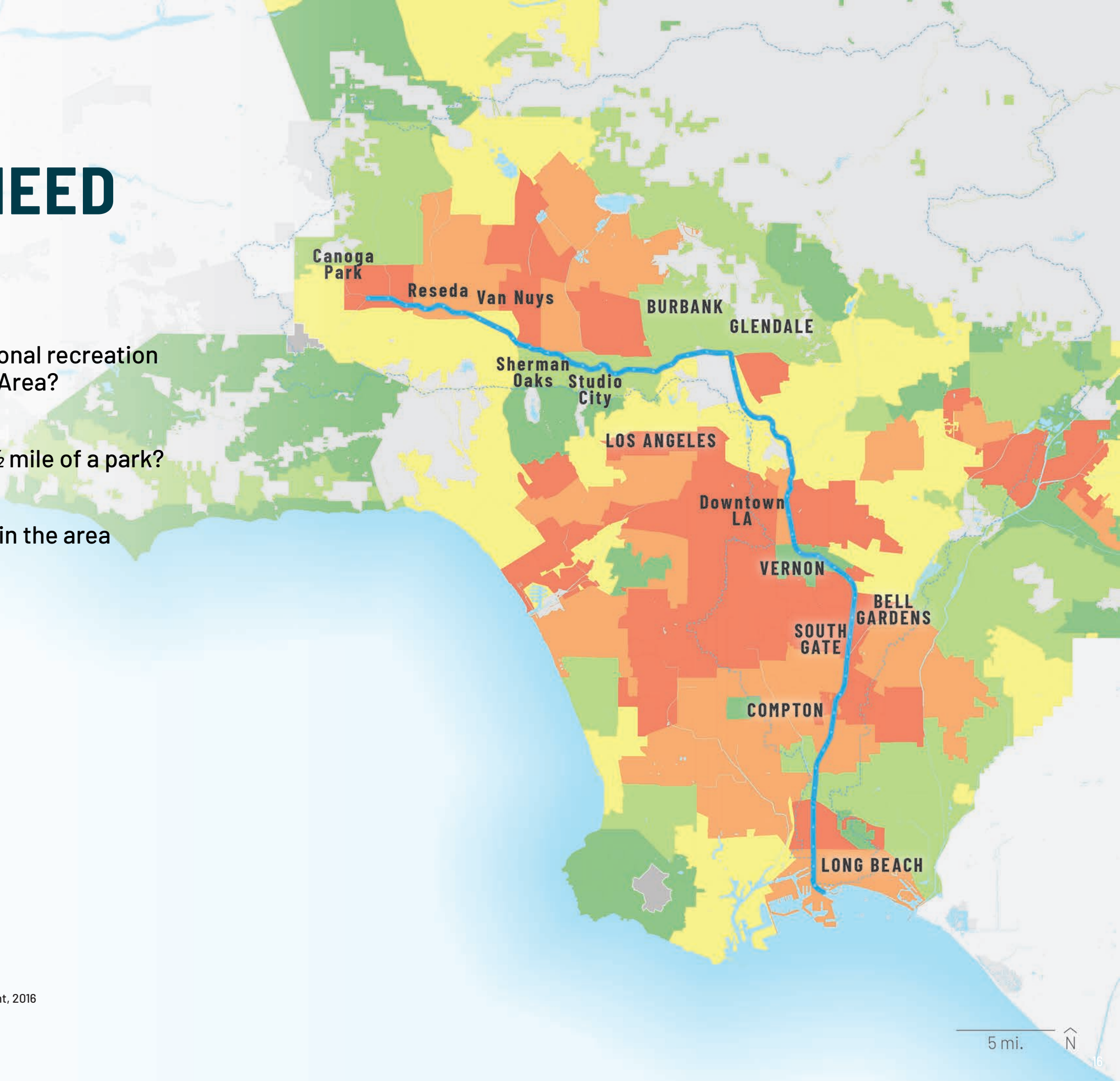
**3) PARK PRESSURE**

How much park land is available to residents in the area around each park?

Park Need

- Very High
- High
- Moderate
- Low
- Very Low

Source: Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016

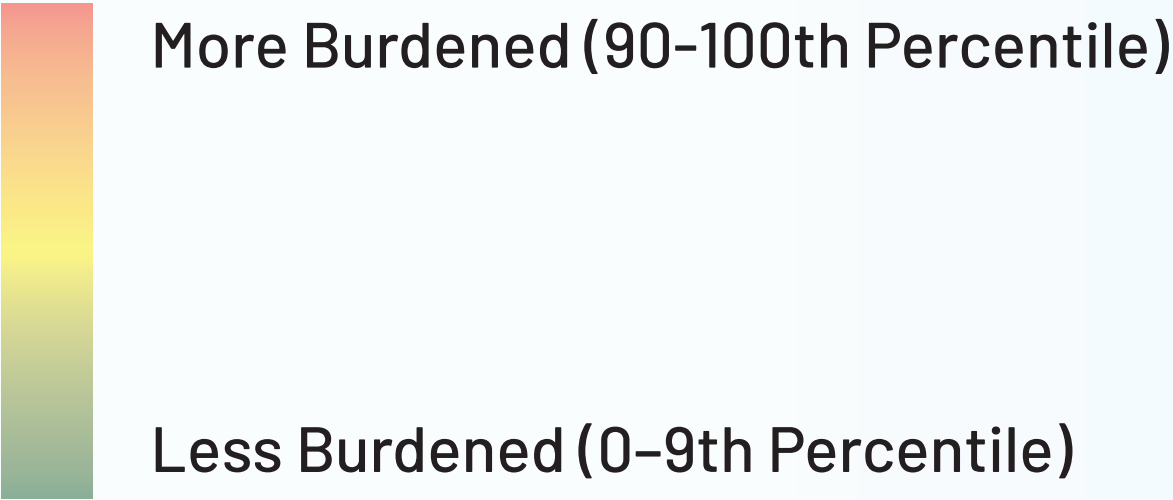




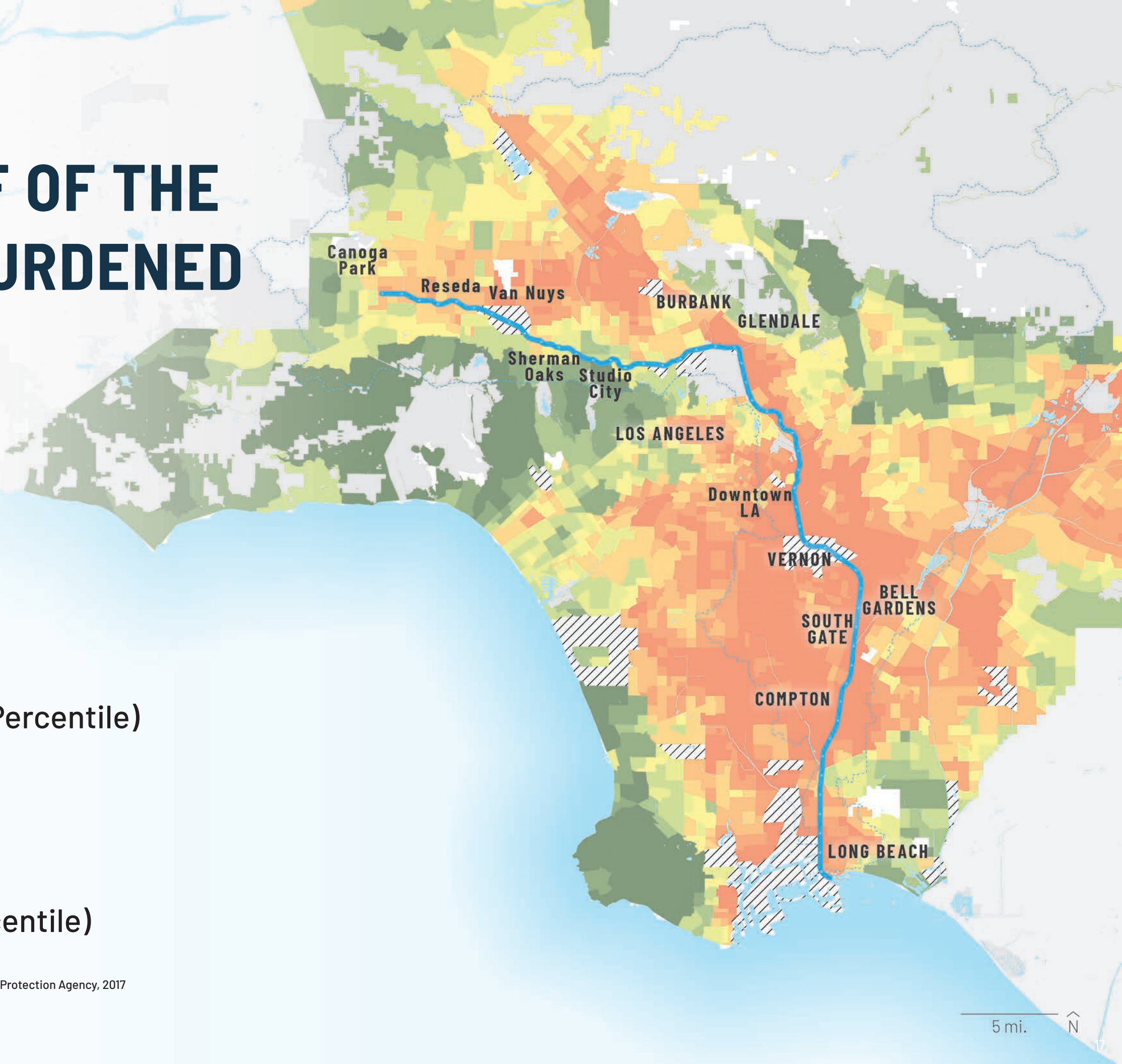
PEOPLE

# SOUTHERN HALF OF THE RIVER HIGHLY BURDENED BY POLLUTION

CalEnviroScreen 3.0



Source: Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017





# WATER



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WATER

# THE LA RIVER DRAINS AN 834 SQUARE MILE WATERSHED

● Water Reclamation Plant



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



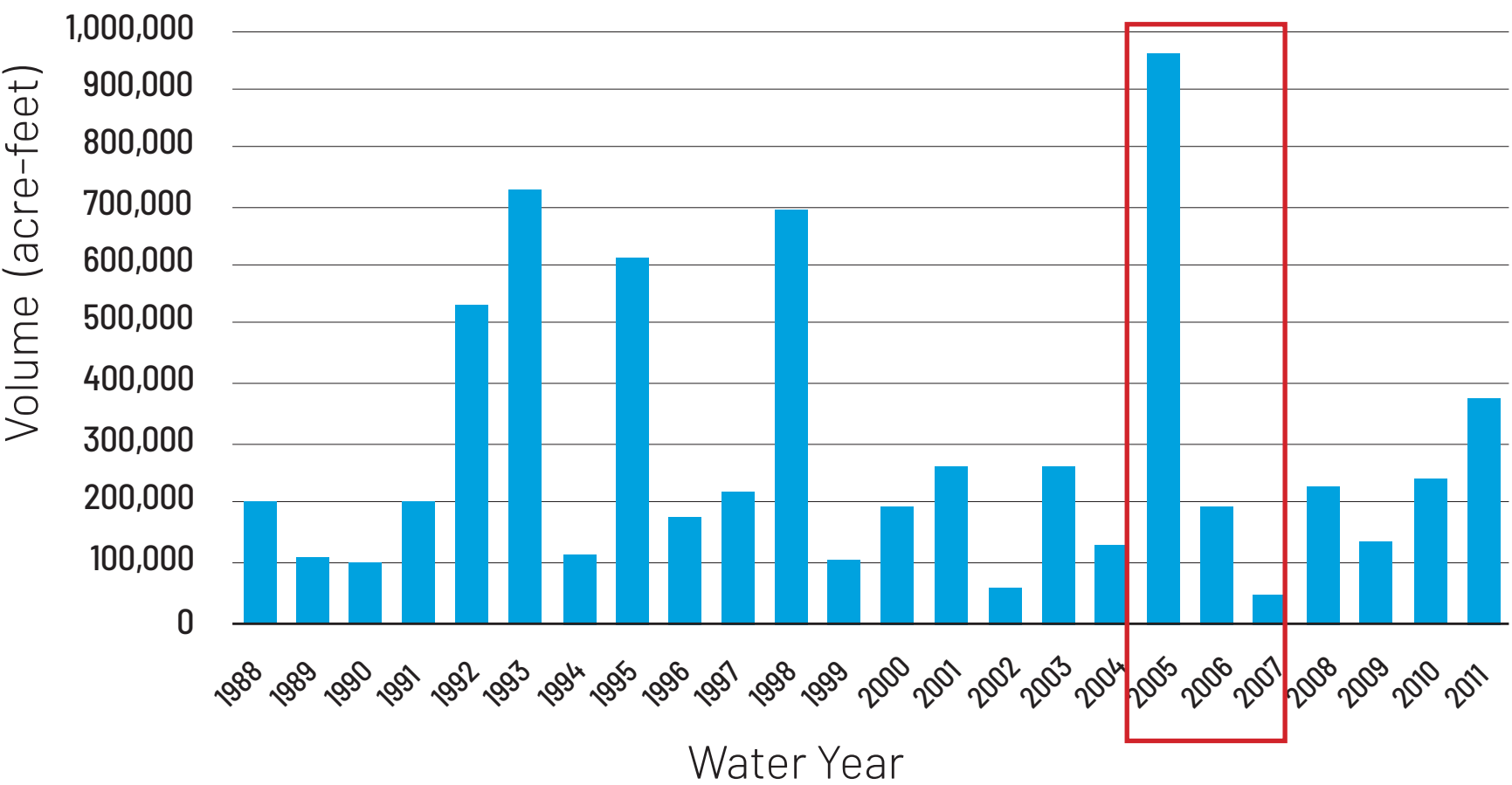
# THE WETTEST AND DRIEST YEARS IN RECENT HISTORY ON THE LA RIVER HAPPENED WITHIN TWO YEARS OF EACH OTHER

Average Volume of Wet Weather Runoff  
280,000 AFY

Wettest Year                      2005  
950,000 AFY

Driest Year                        2007  
50,000 AFY

Wet Weather Runoff Volumes at Mouth

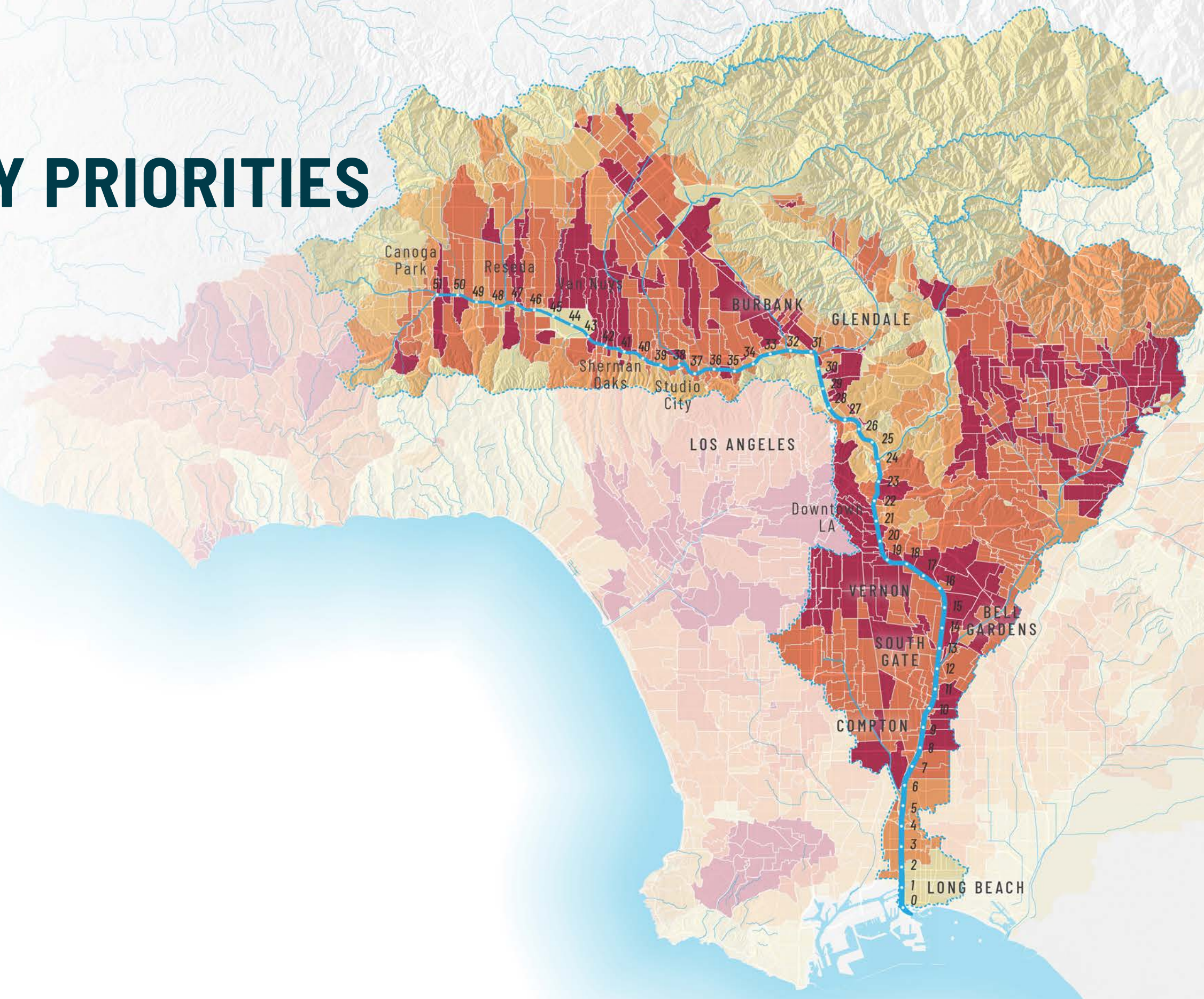
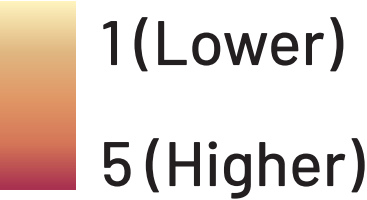




# WATER QUALITY PRIORITIES

- PRIORITIES BASED ON:**
- 1) IMPAIRED RECEIVING WATERS**  
(TMDLs and 303(d) lists) per the Clean Water Act
  - 2) EXPECTED POLLUTANTS**  
draining from the land uses within the catchment

Priority Areas



Source: LA County Public Works LSPC Model Input, 2012, <http://dpw.lacounty.gov/wmd/irwmp/>; Geosyntec, 2018



# WHAT WE HEARD



WHAT WE HEARD

# ENGAGEMENT BY THE NUMBERS



Source: LA County Public Works



**1,306** Community Meeting Participants

**5,592** Telephone Town Hall Participants

**1,650** Online and In-Person Survey Responses

**981,898** Digital Ad Impressions

**800** Youth Summit Participants



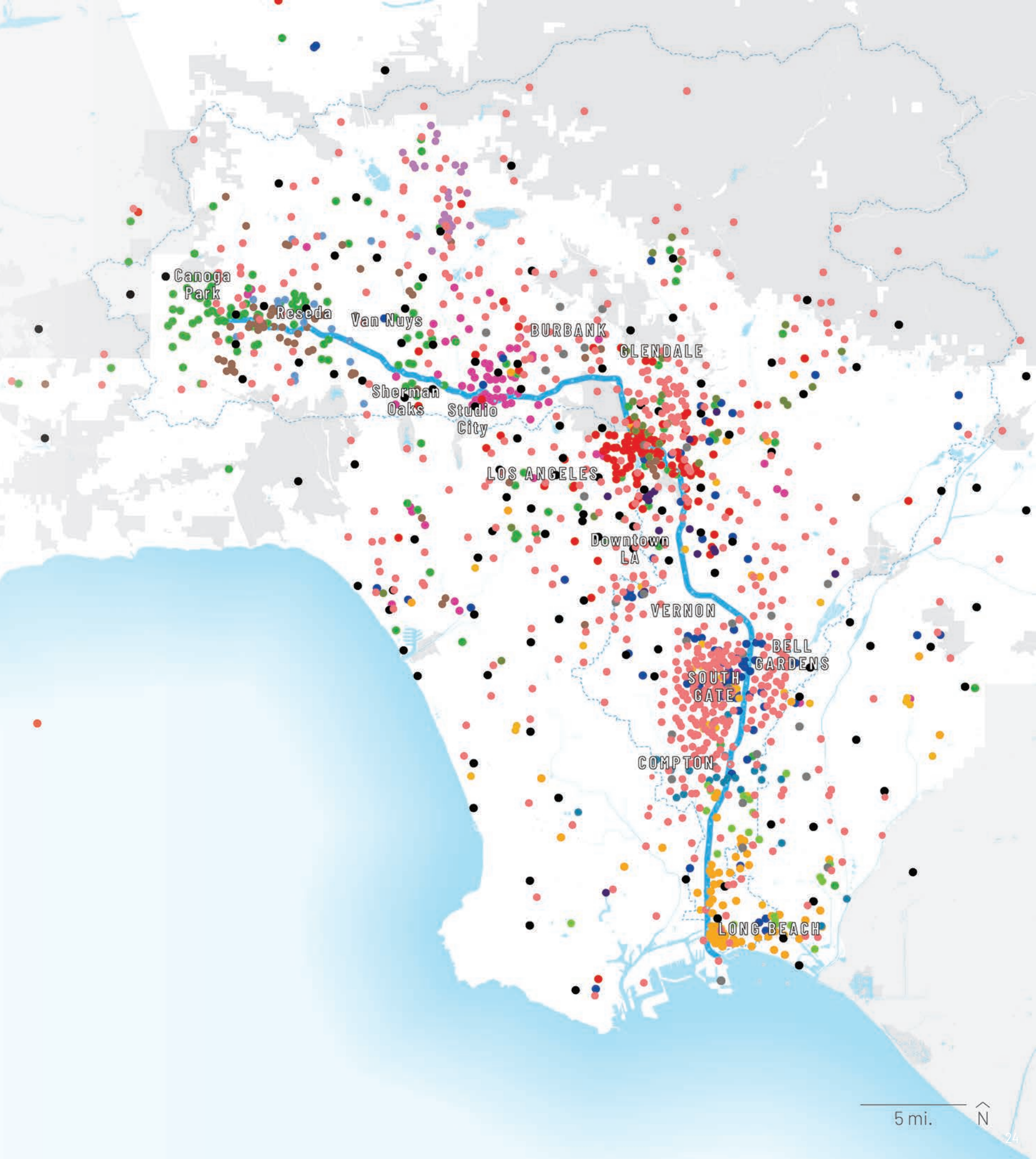
WHAT WE HEARD

WHERE DO YOU LIVE?

MEETING ATTENDEES & SURVEY RESPONDENTS

- Canoga Park Round 1
- Cudahy
- Friendship Auditorium
- Long Beach
- Studio City / North Hollywood
- West Valley
- South Gate
- Compton / E Rancho Dominguez
- Pacoima
- Glendale
- Canoga Park Round 3
- N Long Beach
- Central LA
- Youth Survey
- Digital Survey Round 1
- Digital Survey Round 2

Source: Community Meetings, Survey, and Youth Summit

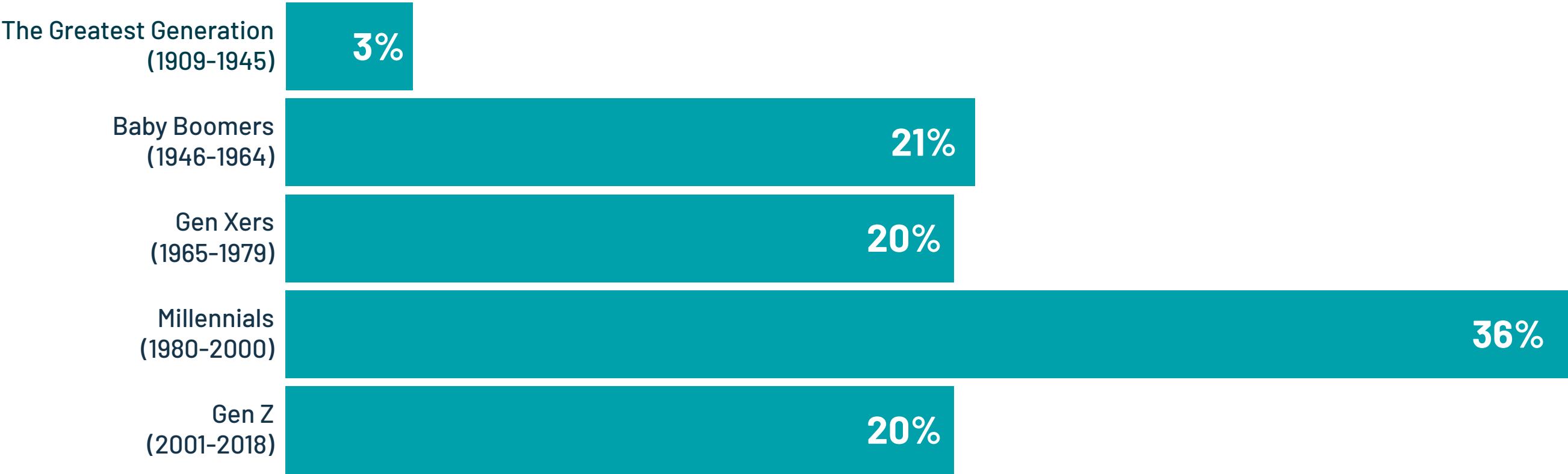


WHAT WE HEARD

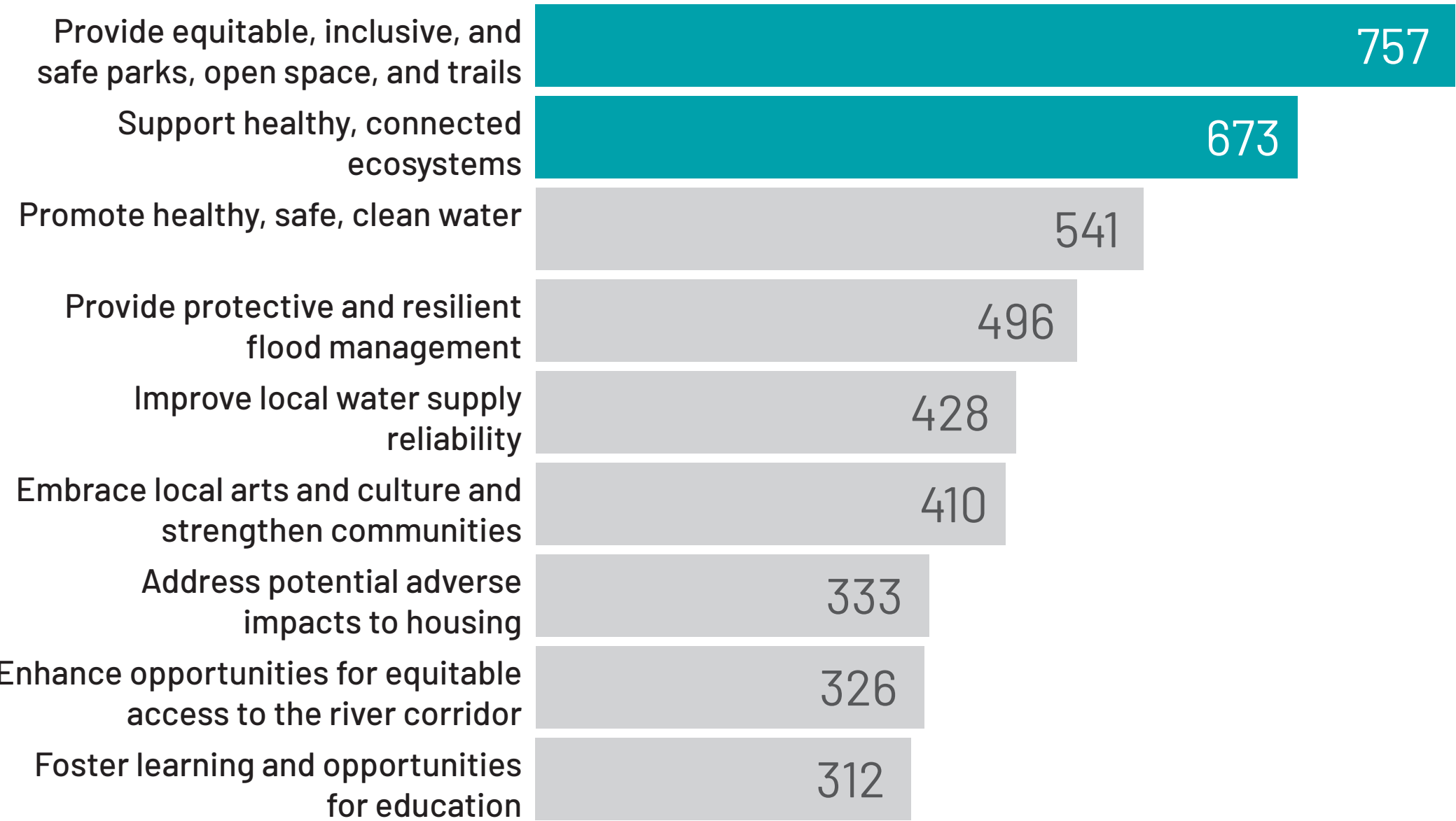
OVER 3,700 ENGAGED IN  
COMMUNITY MEETINGS & SURVEY

GENERATIONS REPRESENTED

(Total from Survey + Community Meetings + Youth Summit)



# WHICH OF THE GOALS FOR THE LA RIVER ARE MOST IMPORTANT TO YOU?



Source: Community Meetings, Survey



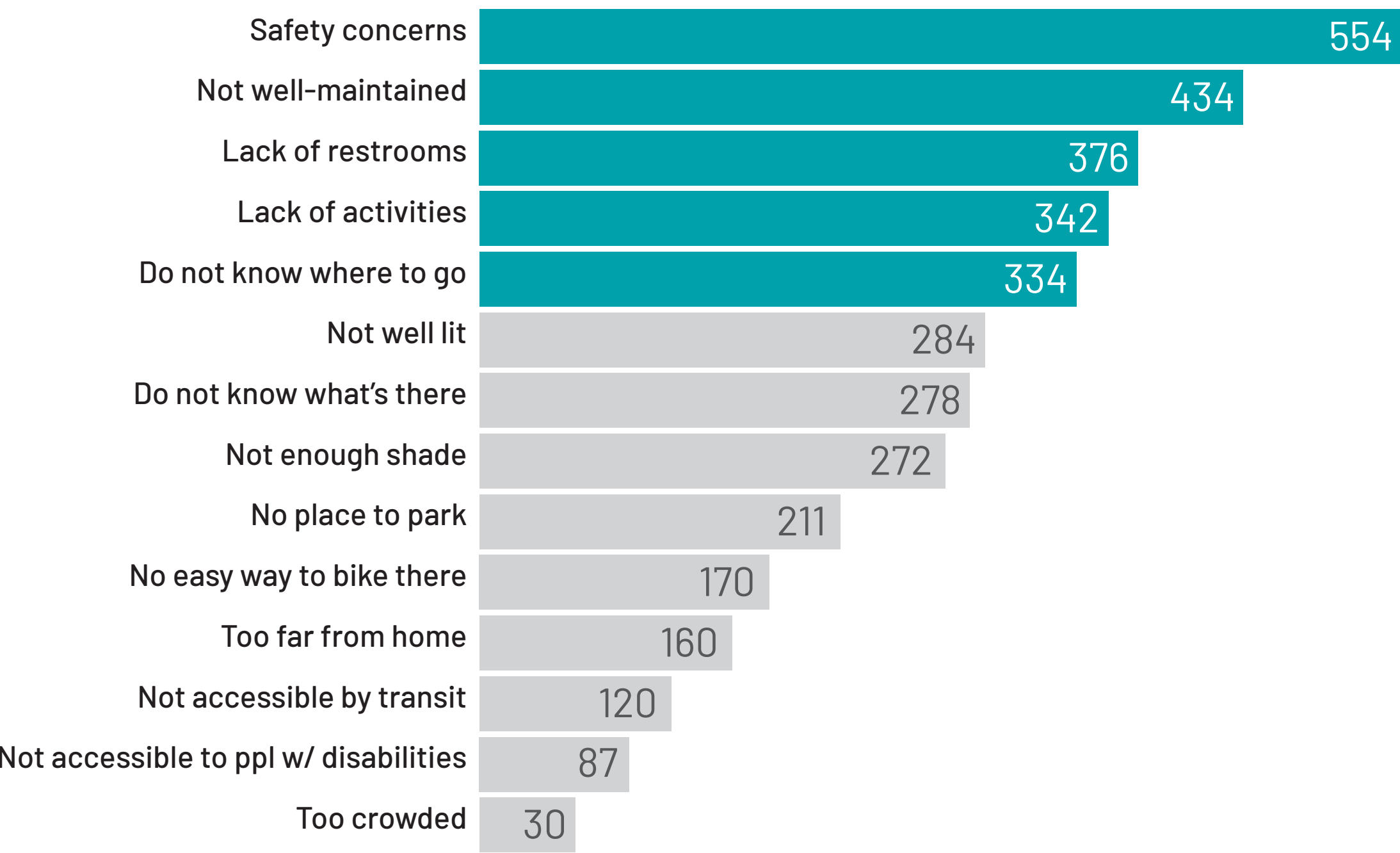
WHAT WE HEARD

WHAT 3 WORDS WOULD YOU USE TO DESCRIBE THE  
LA RIVER?



Source: Community Meetings, Survey, and Youth Summit

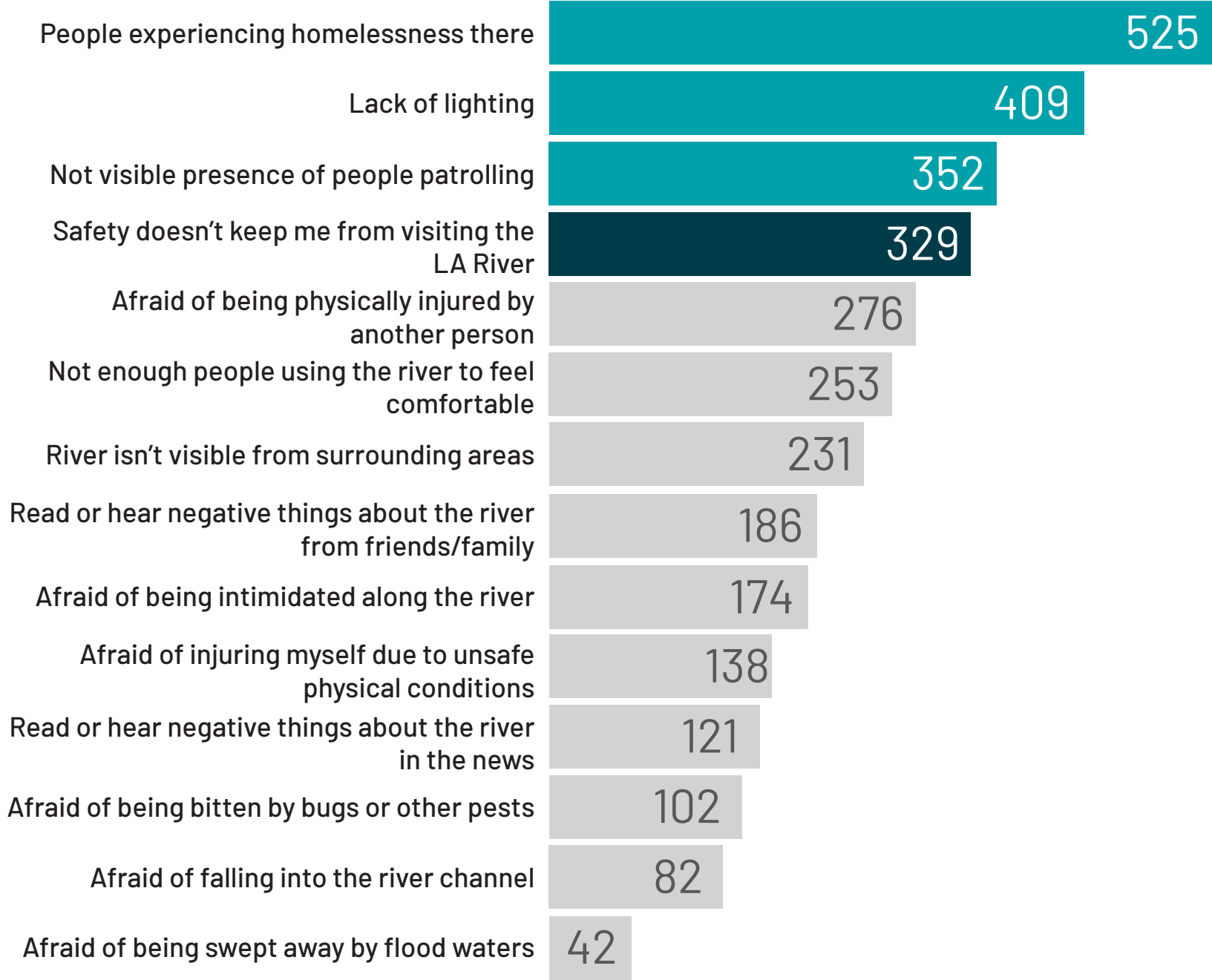
# WHAT KEEPS YOU FROM VISITING THE LA RIVER?



Source: Community Meetings, Survey, and Youth Summit

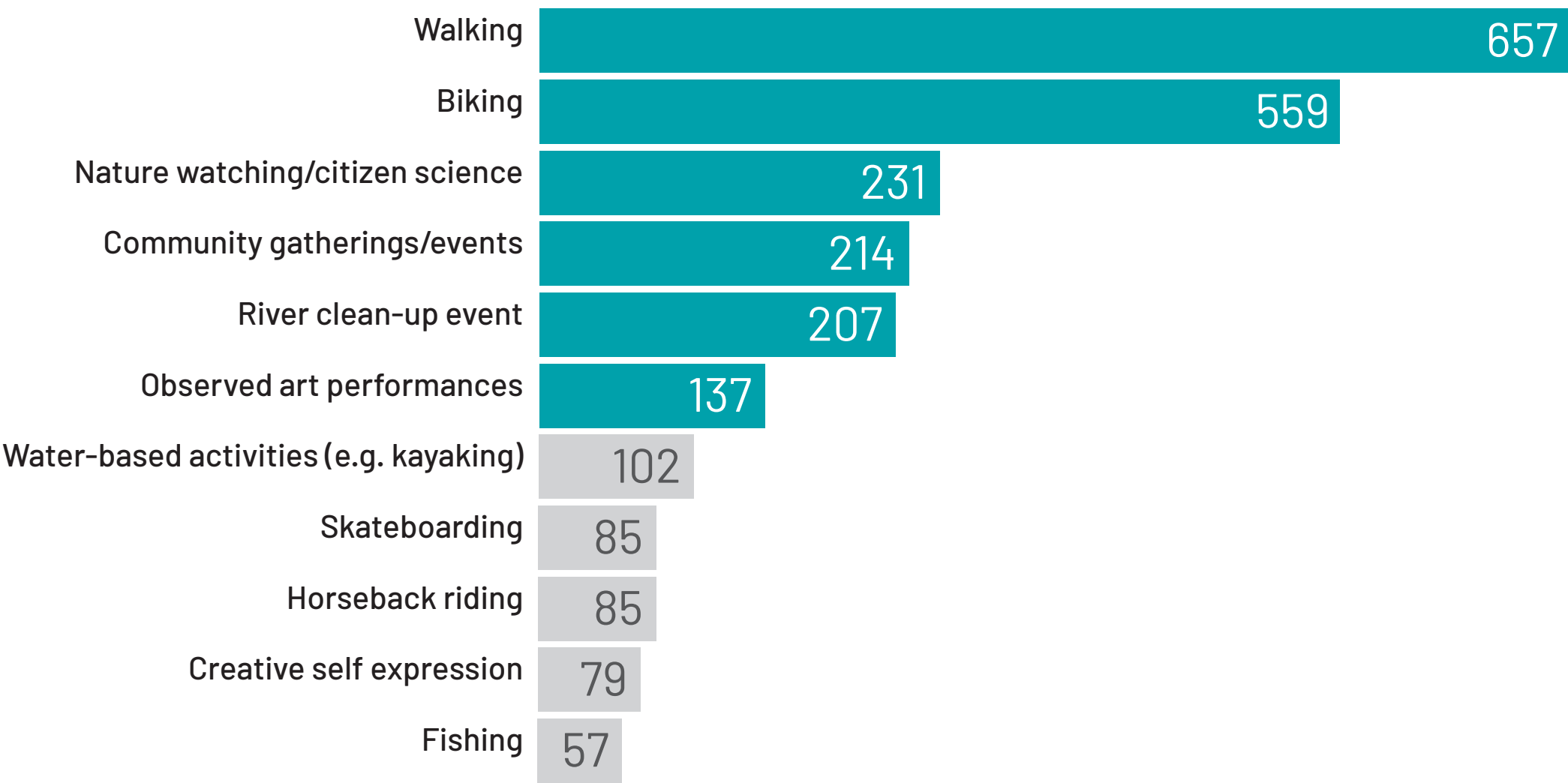


# WHAT ABOUT SAFETY KEEPS YOU FROM VISITING THE LA RIVER?



Source: Community Meetings, Survey

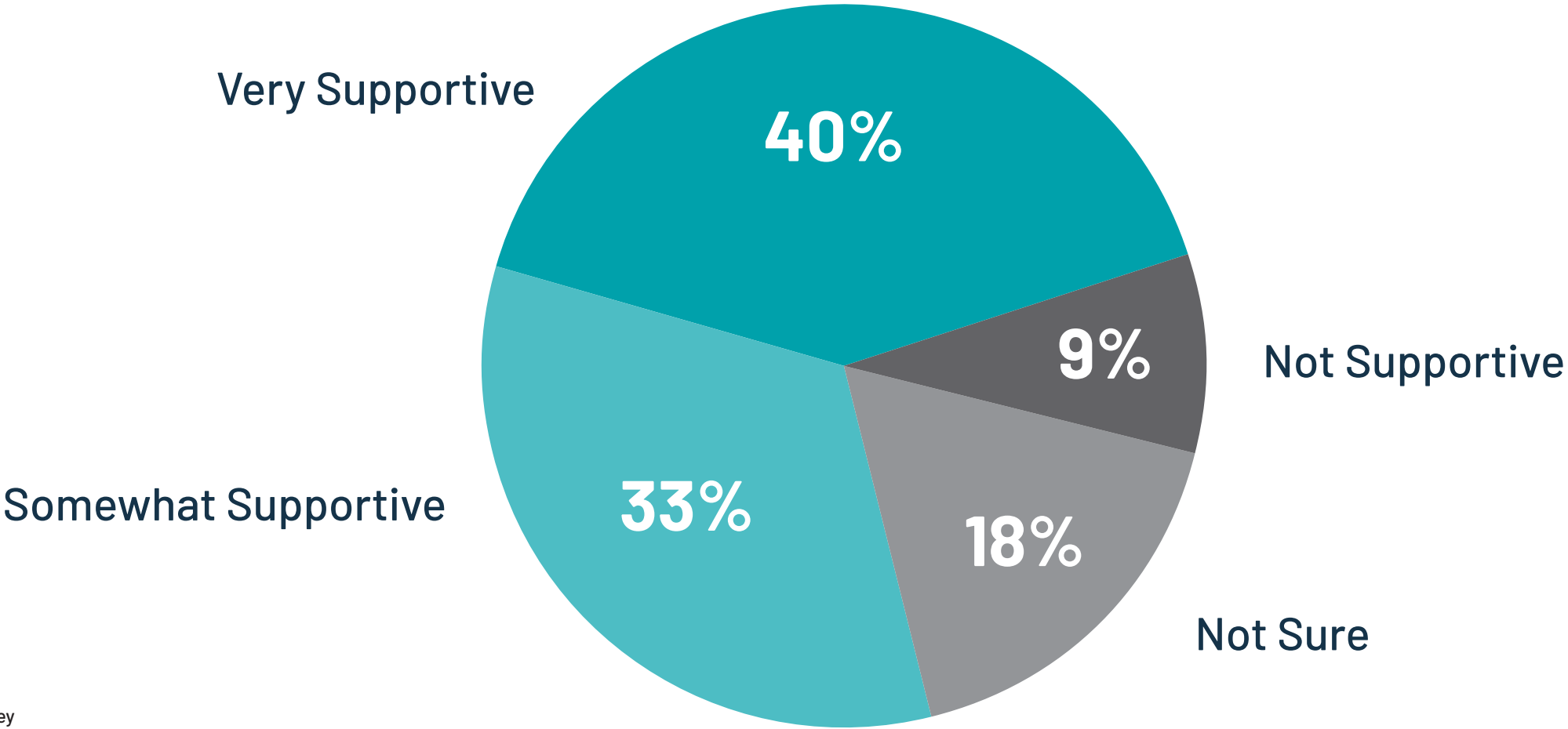
# IN WHAT ACTIVITIES HAVE YOU PARTICIPATED ALONG THE LA RIVER?



Source: Community Meetings, Survey, and Youth Summit

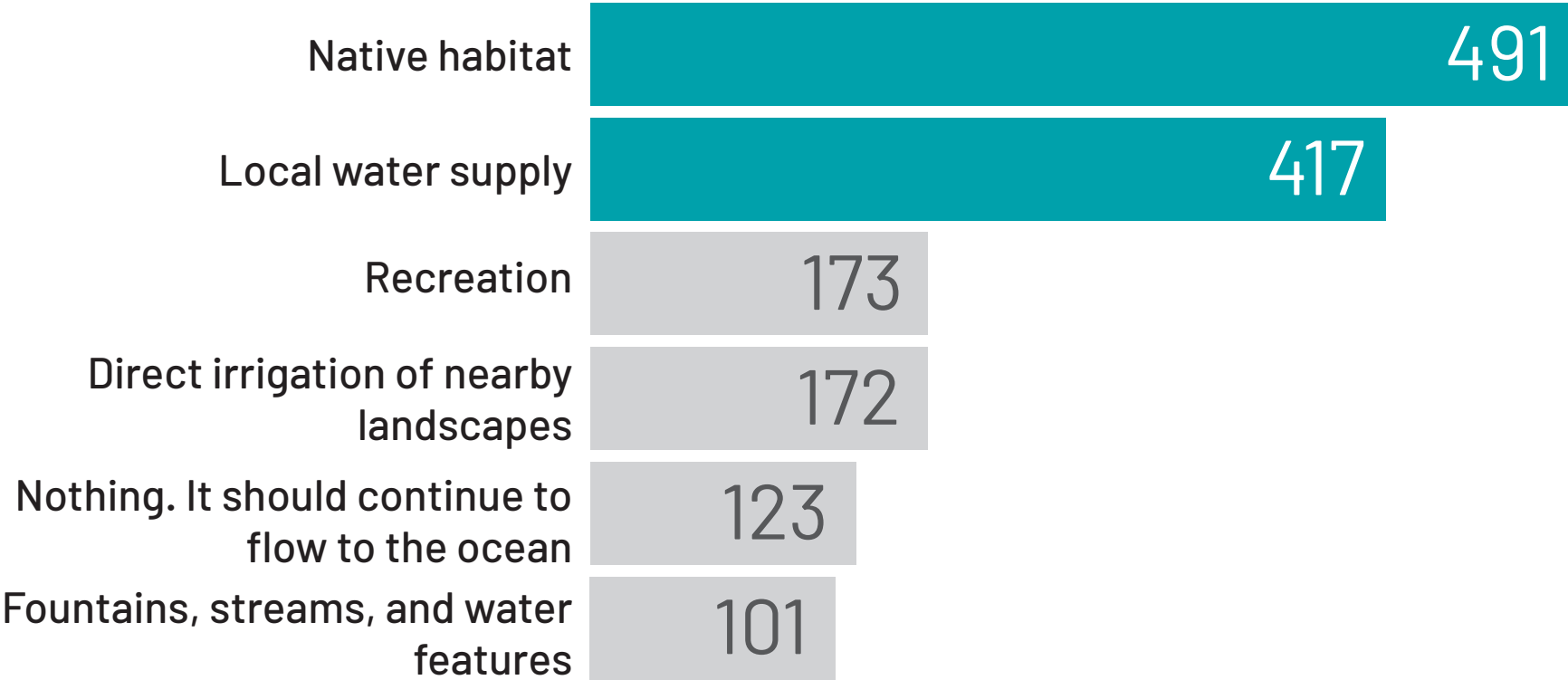


HOW SUPPORTIVE ARE YOU OF SOME INCREASE IN TAXES TO FUND PROJECTS THAT WOULD ACHIEVE THE 3 GOALS FOR THE LA RIVER YOU IDENTIFIED AS MOST IMPORTANT TO YOU?



Source: Community Meetings, Survey

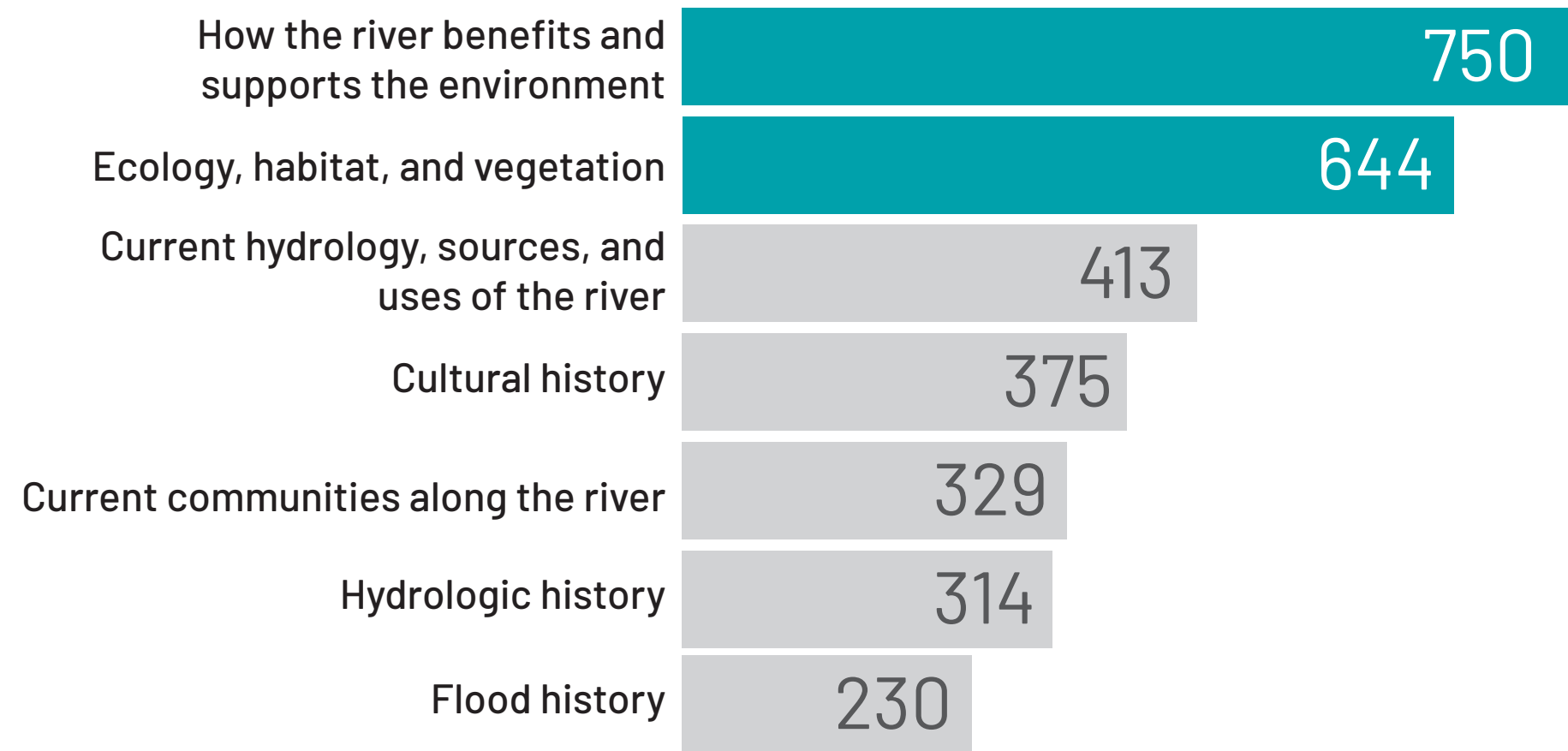
WHEN IT'S NOT RAINING, THERE IS STILL FLOW IN THE LA RIVER. WHAT DO YOU THINK IS A BETTER USE FOR THIS WATER INSTEAD OF LETTING IT FLOW TO THE OCEAN?



Source: Community Meetings, Survey

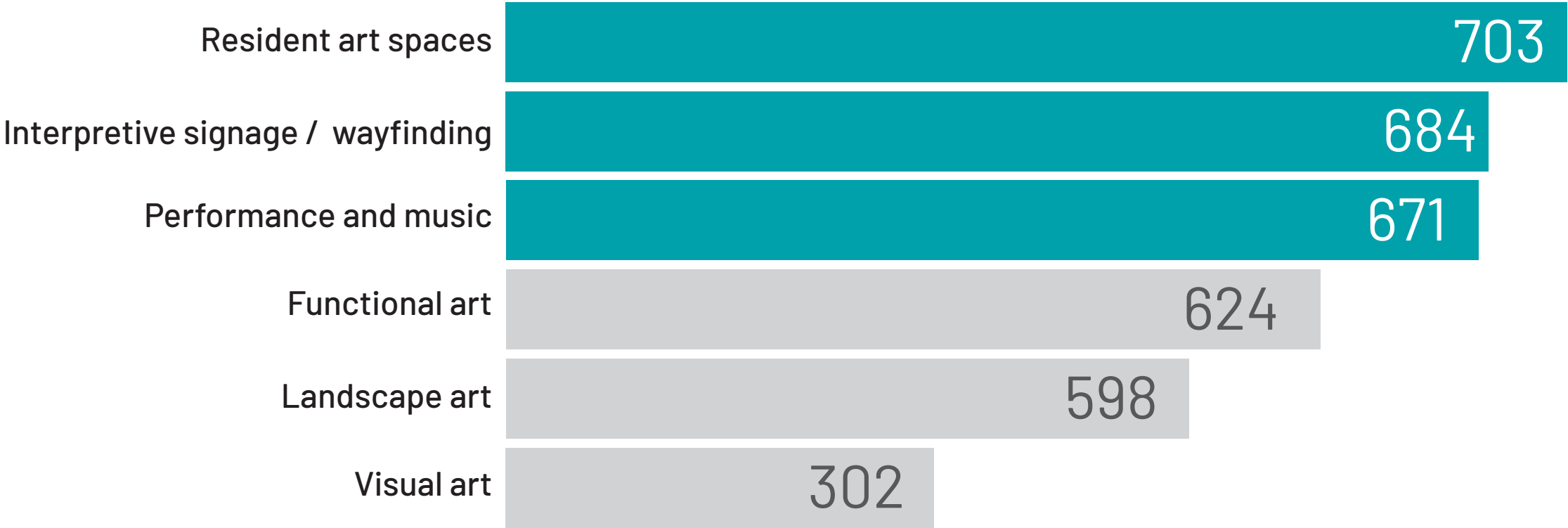


# WHAT DO YOU THINK IS MOST IMPORTANT FOR PEOPLE TO LEARN ABOUT THE LA RIVER?



Source: Community Meetings, Survey

# WHAT TYPES OF ART WOULD YOU LIKE TO SEE OR PARTICIPATE IN ALONG THE LA RIVER?



Source: Community Meetings, Survey



WHAT WE HEARD

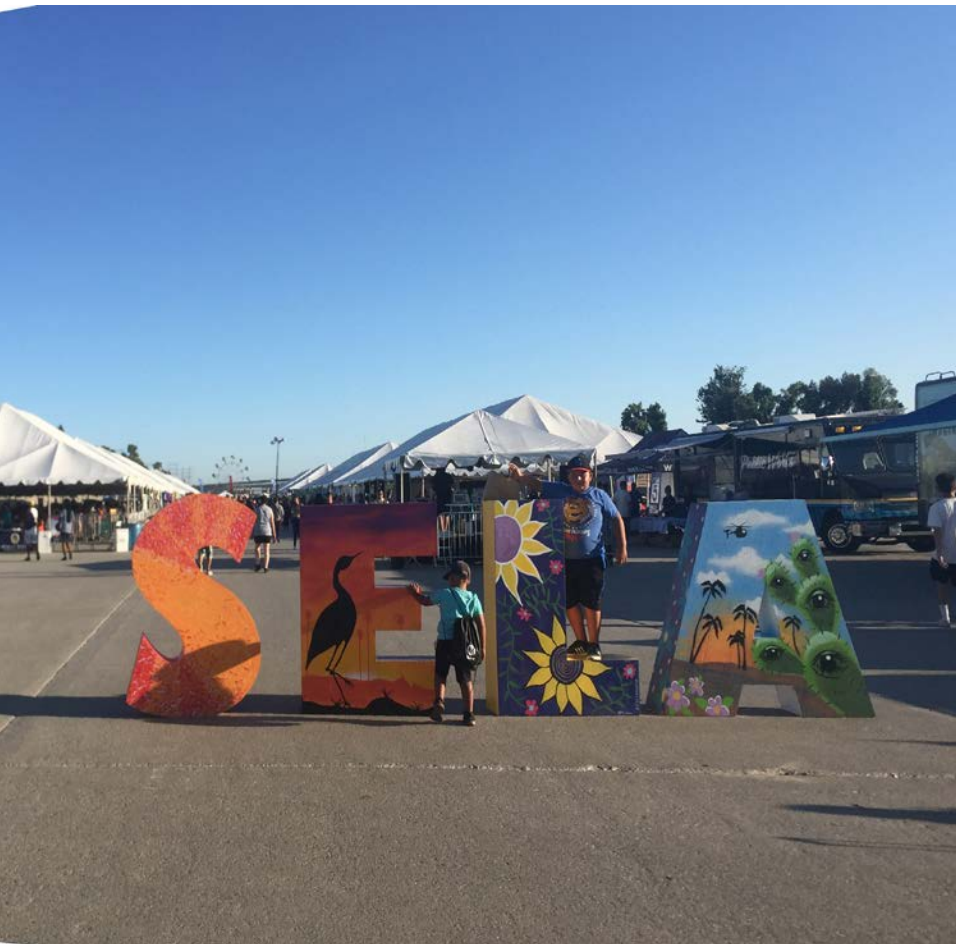
# COMMUNITY PARTNERSHIPS





WHAT WE HEARD

# COMMUNITY PARTNERSHIPS





A teal-tinted photograph of a dry riverbed. Several people are walking through the shallow water and sand. In the background, there are trees and distant hills under a clear sky. The text "MASTER PLAN PROGRESS" is overlaid in large, white, bold letters.

# MASTER PLAN PROGRESS

Source: [Joff House](#), *Playing in Sepulveda Basin*, 2014; from [Project 51](#), *Play the LA River*

# VISION

## The Reimagined River

The iconic LA River flows through a 51-mile connected public open space that is seamlessly woven together with neighboring communities. It is an integral part of daily life in LA County—a place to enjoy the outdoors and to get across town, a place to appreciate the serene and to bring all people together, a place to celebrate a thriving urban habitat and respect feats of infrastructure, a place to learn from the past and to shape the future.



# GOALS

**Reduce flood risk and improve resiliency.**

**Provide equitable, inclusive, and safe parks, open space, and trails.**

**Support healthy, connected ecosystems.**

**Enhance opportunities for equitable access to the river corridor.**

**Embrace and enhance opportunities for arts and culture.**

**Address potential adverse impacts to housing affordability and people experiencing homelessness.**

**Foster opportunities for continued community engagement, development, and education.**

**Improve local water supply reliability.**

**Promote healthy, safe, clean water.**



FOR EXAMPLE...

# **GOAL: *ACTIVE PRIORITY FOR THE FUTURE***

## **POTENTIAL ACTIONS**

- *Movements toward the ideal state*

## **POTENTIAL METHODS**

- *Specific implementation steps for each action*



FOR EXAMPLE...

**GOAL: PROVIDE EQUITABLE, INCLUSIVE, AND SAFE  
PARKS, OPEN SPACE, AND TRAILS.**

FOR EXAMPLE...

**GOAL: PROVIDE EQUITABLE, INCLUSIVE, AND SAFE  
PARKS, OPEN SPACE, AND TRAILS.**

## **POTENTIAL ACTIONS**

- **Create 51 miles of connected open space along the river.**



FOR EXAMPLE...

# **GOAL: PROVIDE EQUITABLE, INCLUSIVE, AND SAFE PARKS, OPEN SPACE, AND TRAILS.**

## **POTENTIAL ACTIONS**

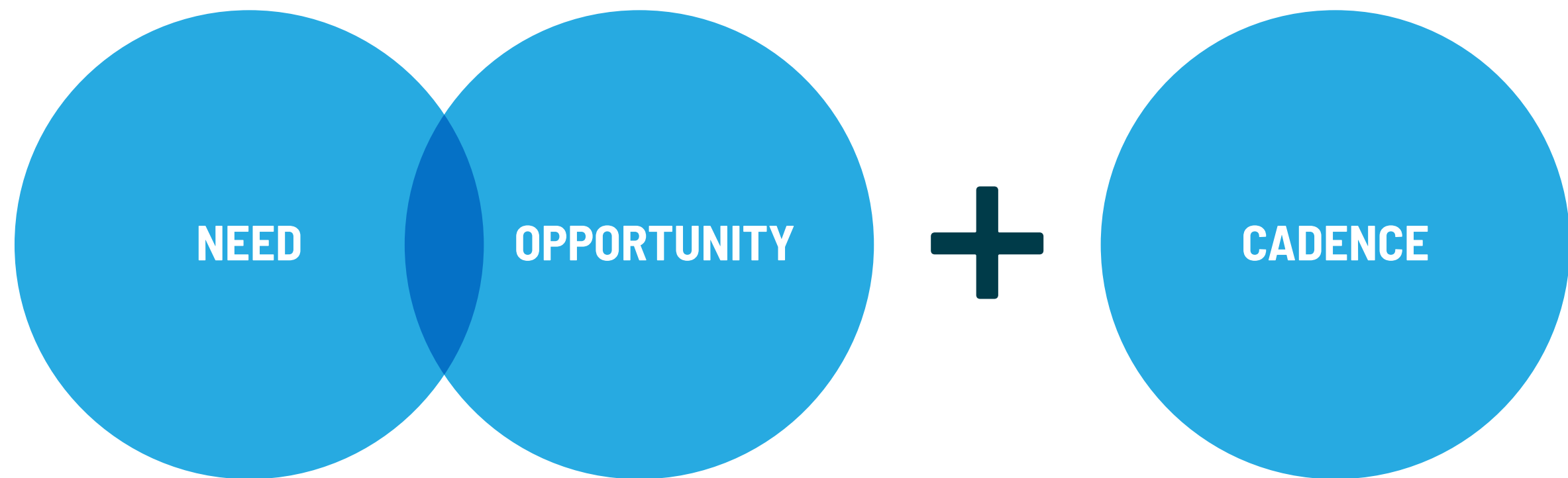
- **Create 51 miles of connected open space along the river.**

## **POTENTIAL METHODS**

- Utilize river channel right-of-way and adjacent areas to increase park space.

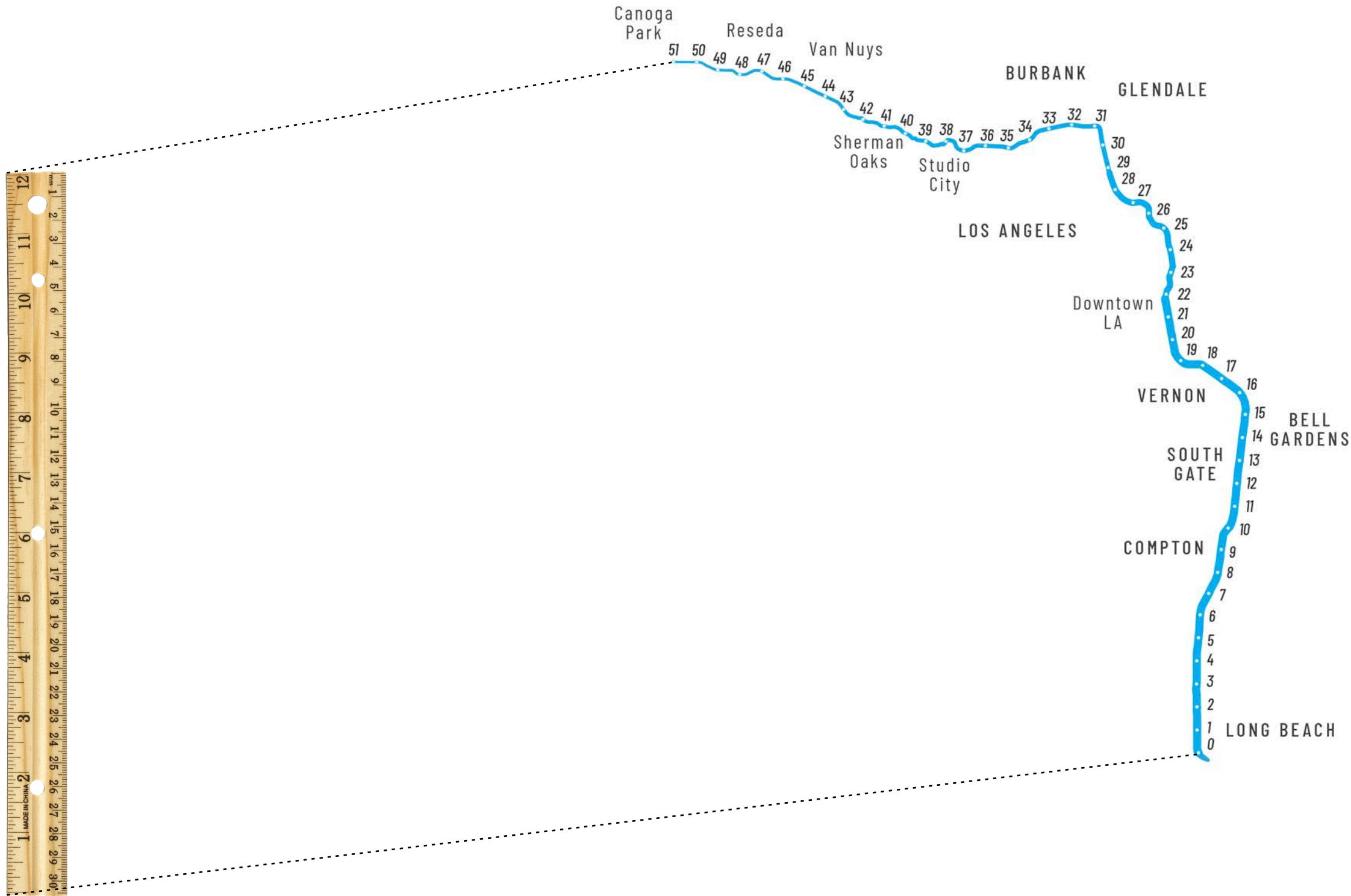
# HOW DO WE LOCATE NEW PROJECTS?

Align need, opportunity, and cadence along the LA River Corridor.

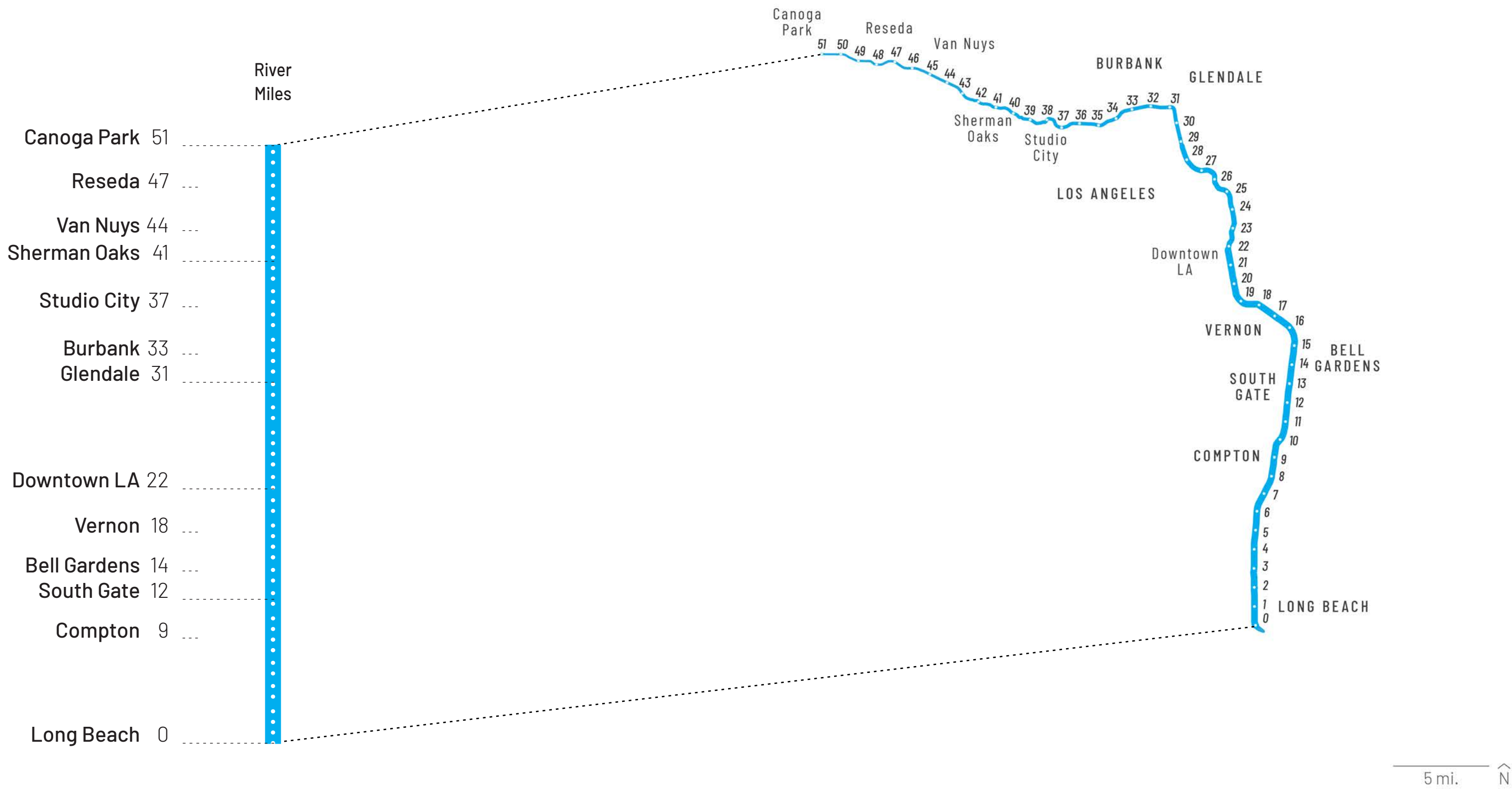




# THE LA RIVER RULER



# THE LA RIVER RULER



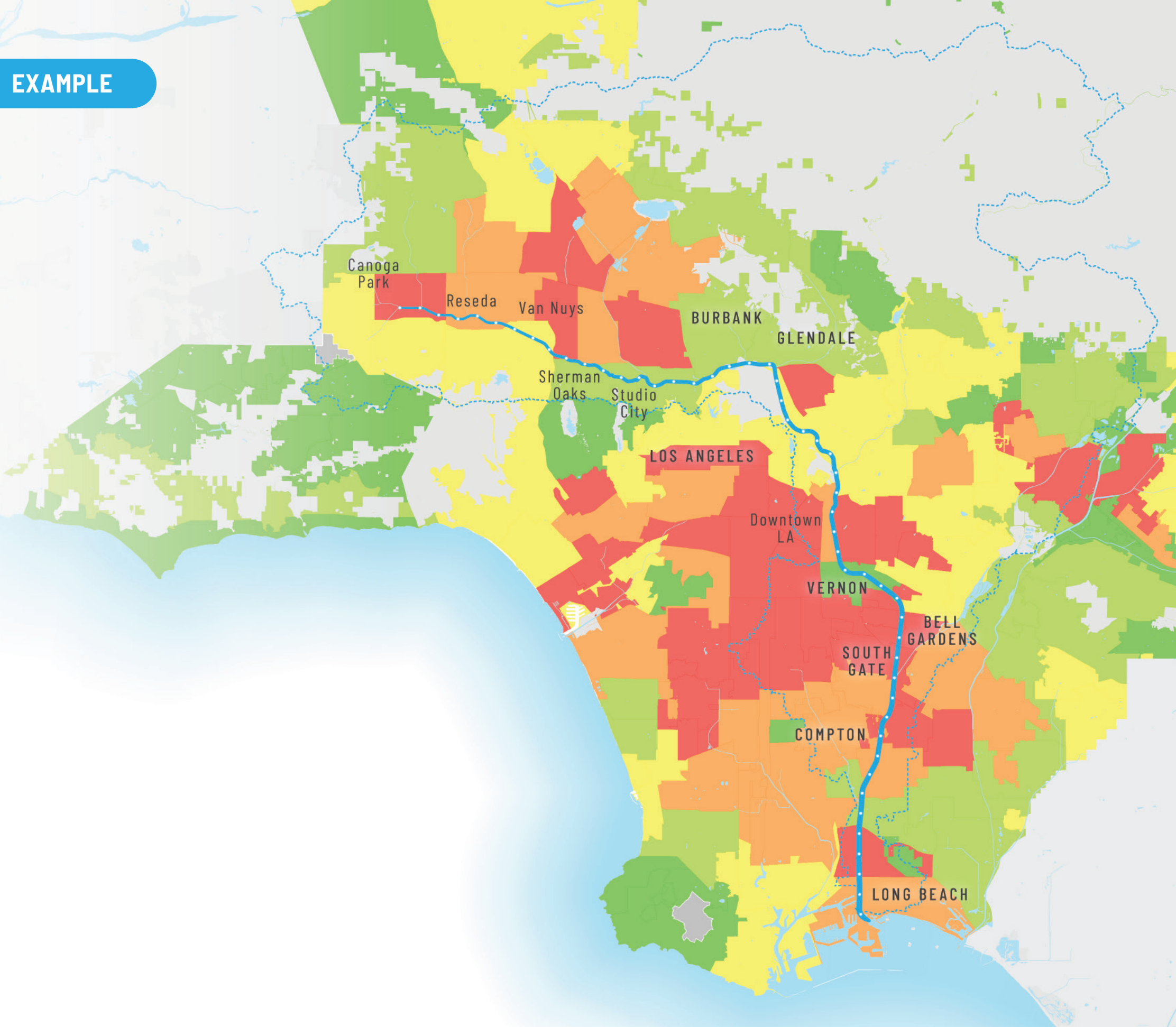


EXAMPLE

# PARK NEED

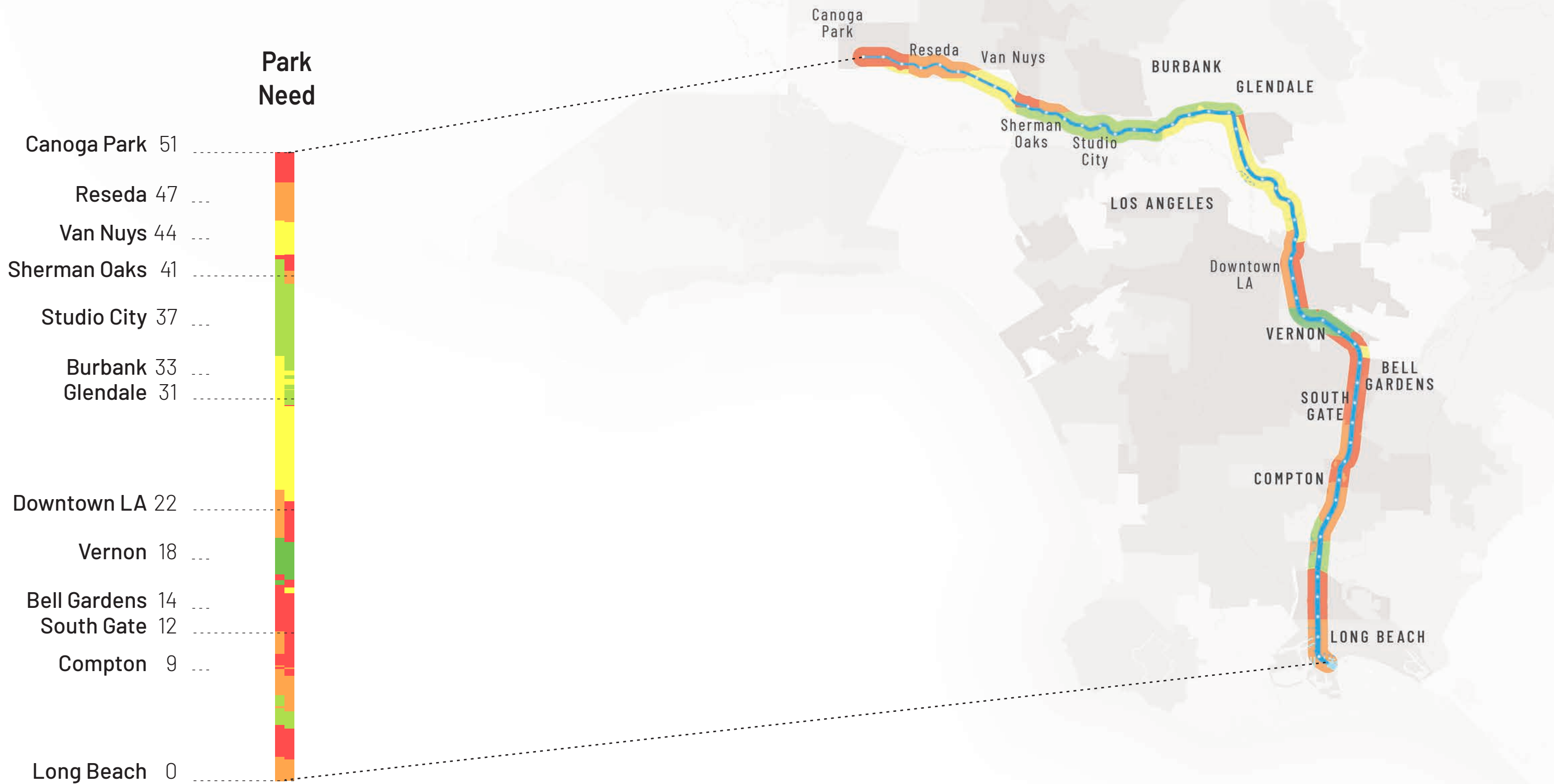
## Park Need Analysis:

- Very High
- High
- Moderate
- Low
- Very Low



Source: Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016

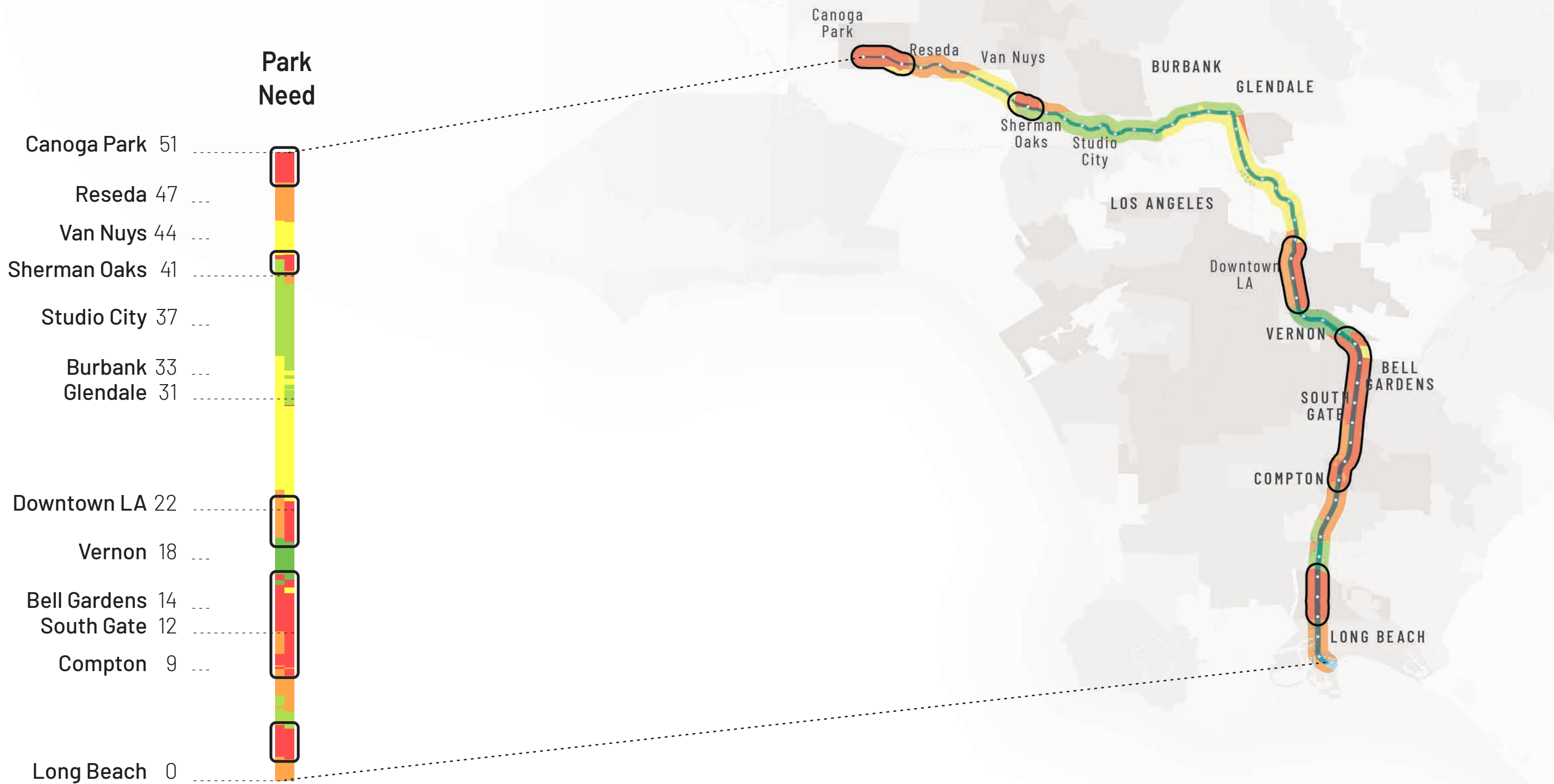
# PARK NEED ALONG THE LA RIVER CORRIDOR



Source: OLIN, Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016

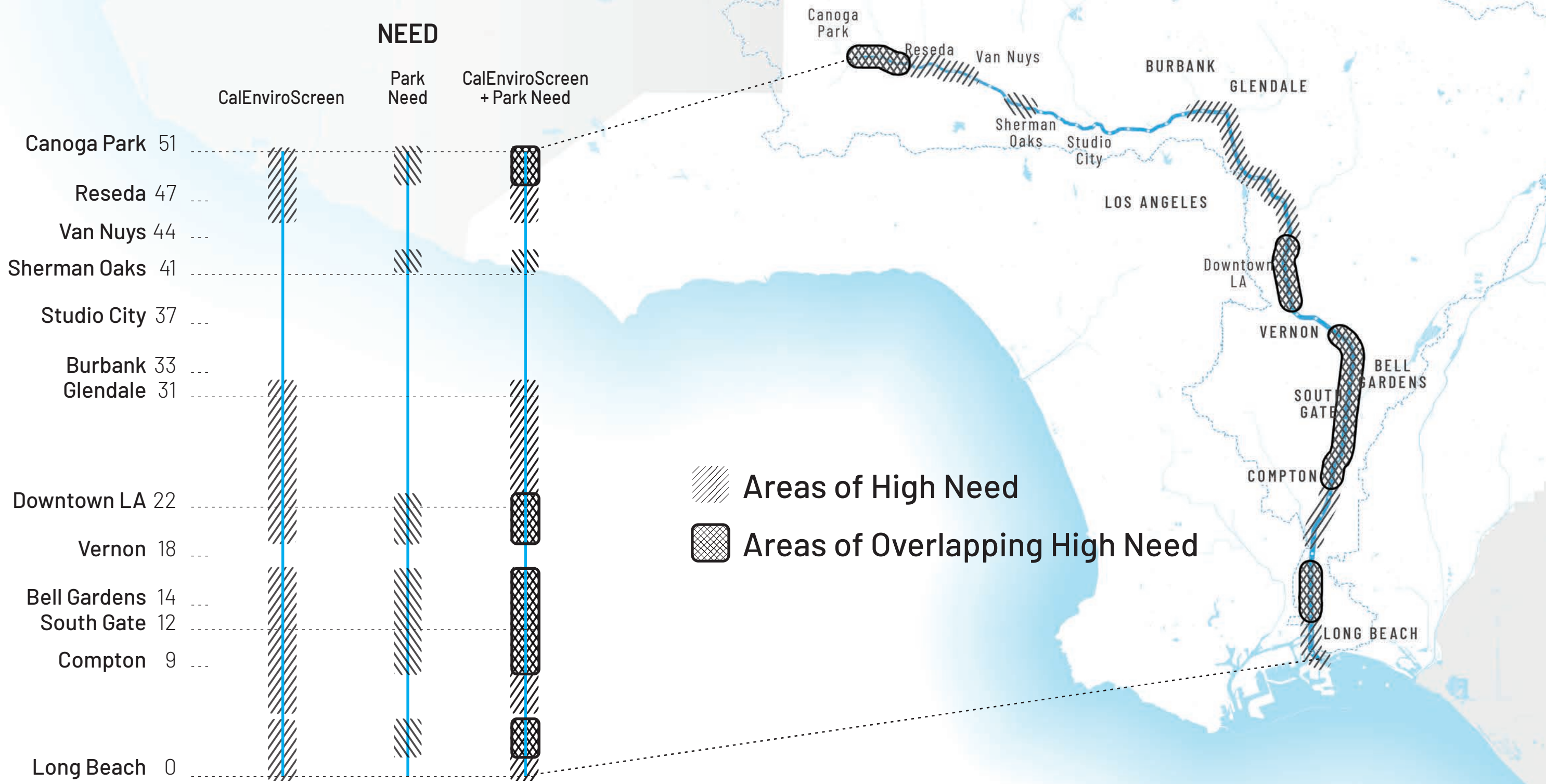


# IDENTIFY AREAS OF HIGHEST NEED



Source: OLIN, Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016

# IDENTIFY AREAS OF OVERLAPPING HIGH NEED





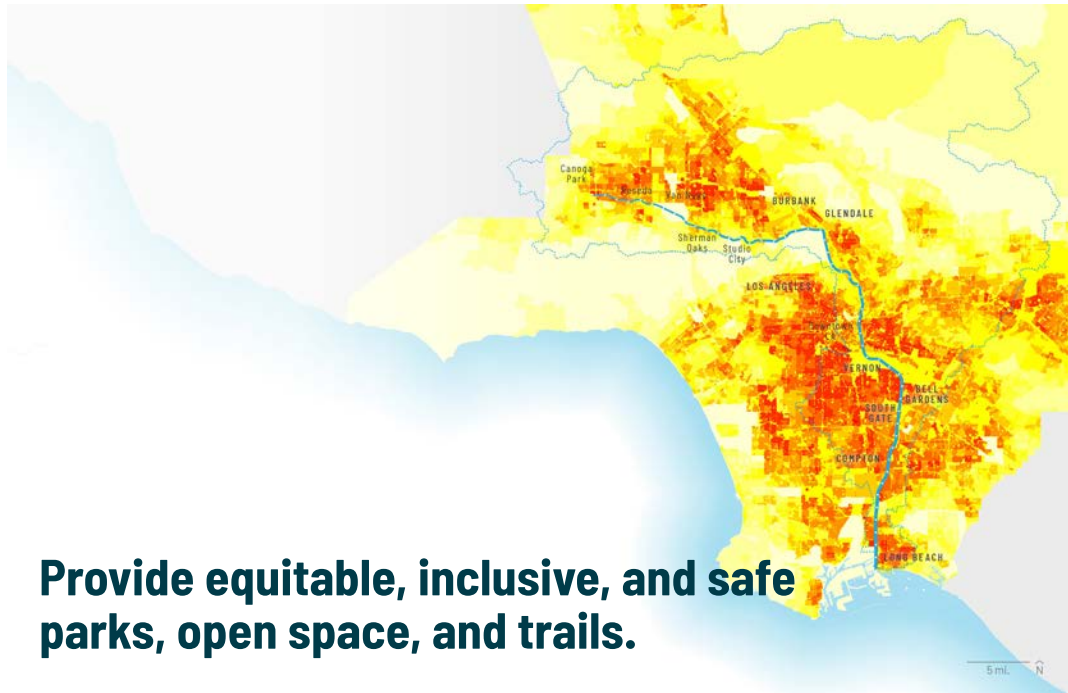
# LARMP UPDATE 2020

# RIVER RULERS





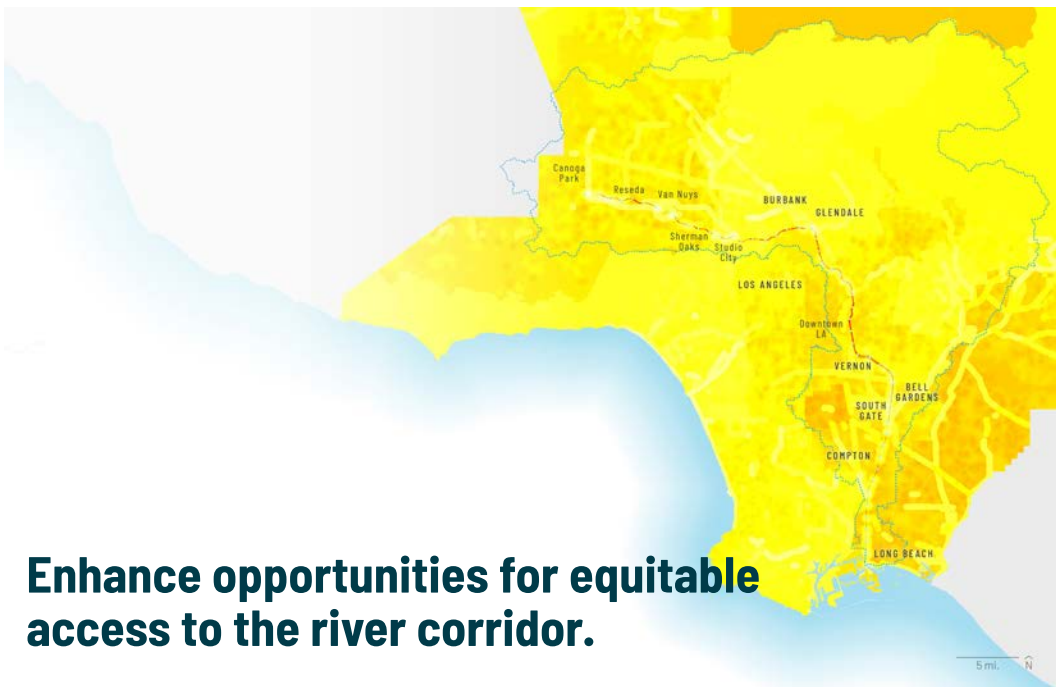
**Reduce flood risk and improve resiliency.**



**Provide equitable, inclusive, and safe parks, open space, and trails.**



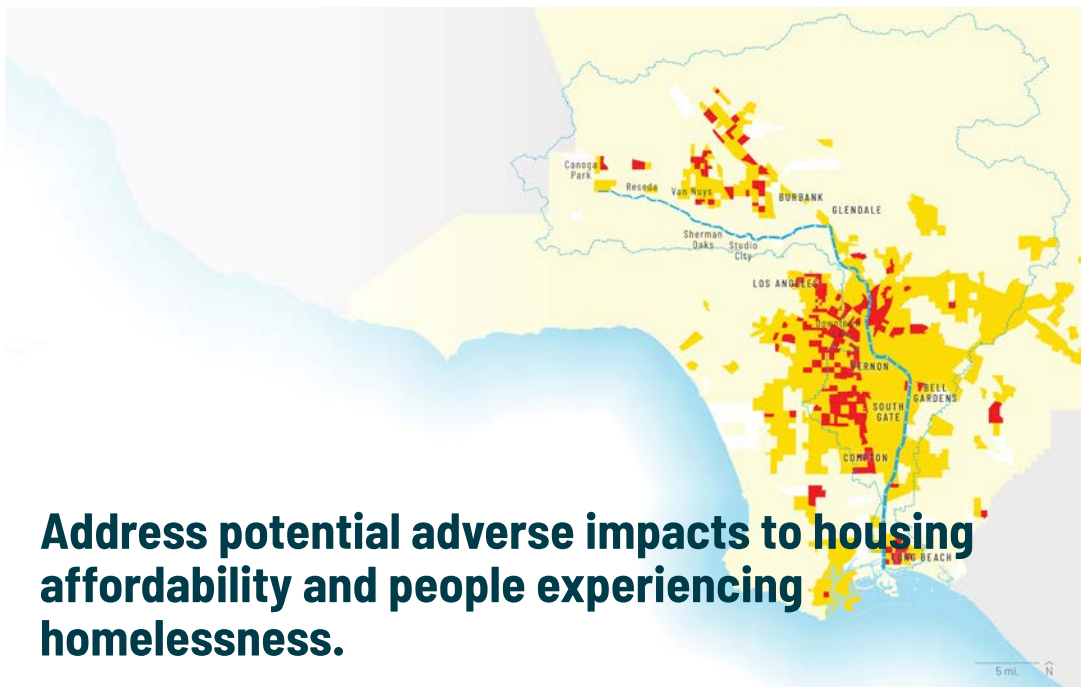
**Support healthy, connected ecosystems.**



**Enhance opportunities for equitable access to the river corridor.**



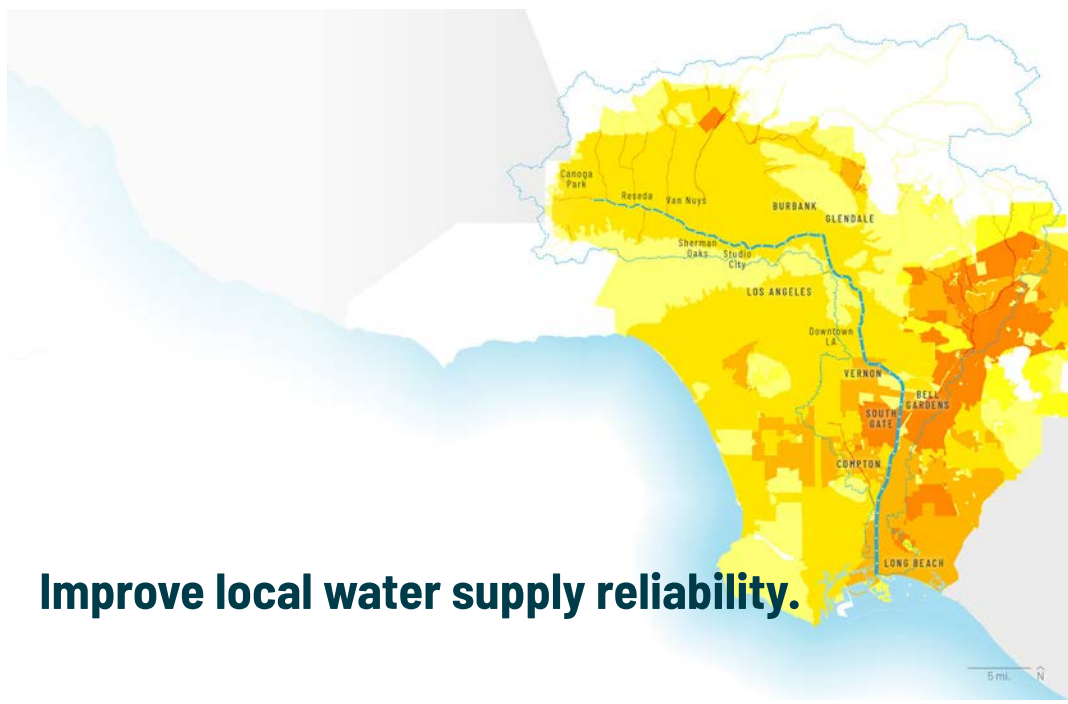
**Embrace and enhance opportunities for arts and culture.**



**Address potential adverse impacts to housing affordability and people experiencing homelessness.**



**Foster opportunities for continued community engagement, development, and education.**



**Improve local water supply reliability.**



**Promote healthy, safe, clean water.**



# OPPORTUNITY

What areas have the greatest capacity to site new projects?

## EXAMPLE: LOCATING NEW PARKS

Vacant Land



Publicly Owned Land



Right-of-Way



# OPPORTUNITY

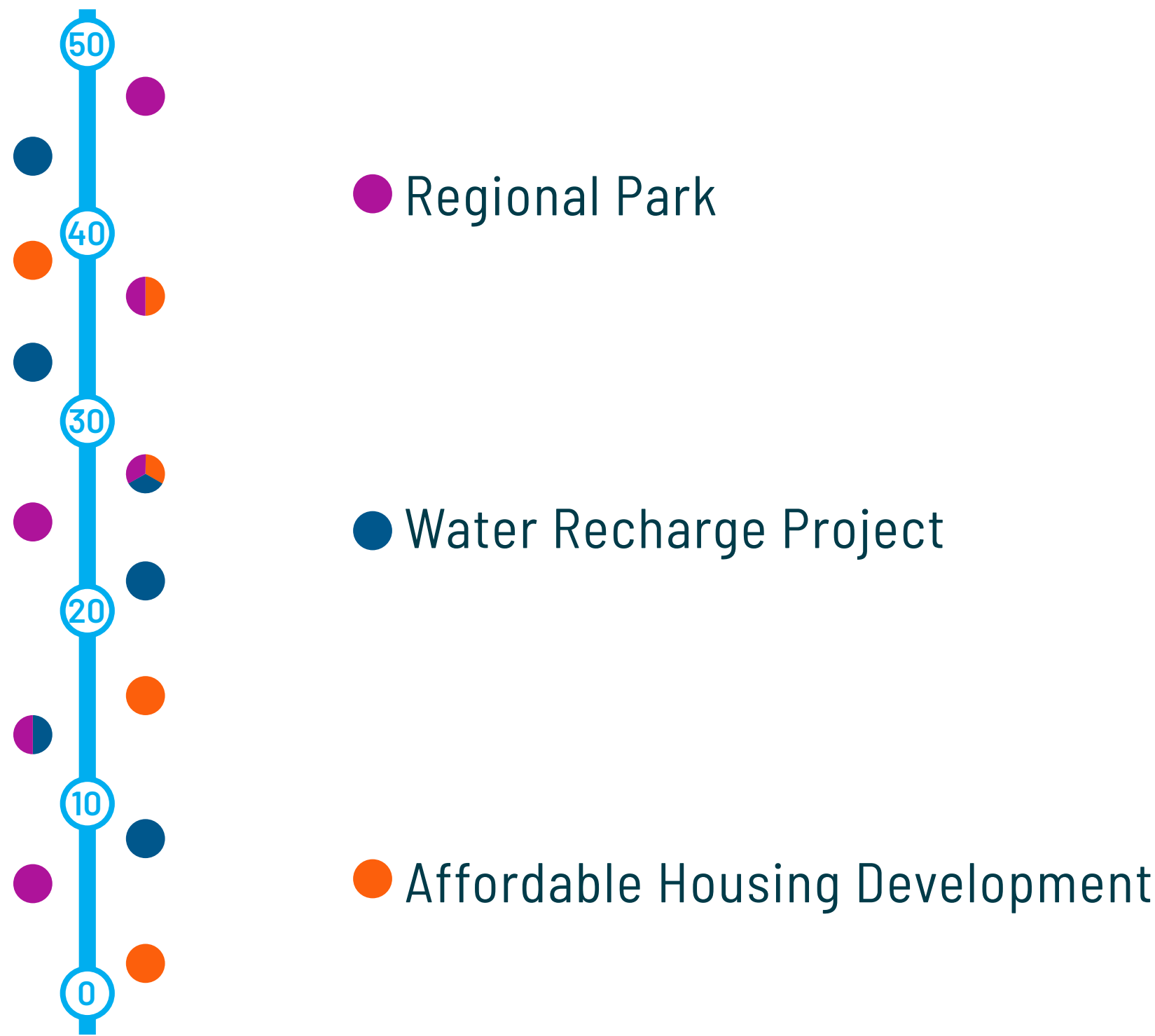
Capitalize on areas that have the greatest capacity to site new projects.

## LAND ASSETS:

- LA River Right-of-Way
- LA County Owned Parcels (Priority to Vacant & Underutilized)
- Other Publicly Owned Parcels (Priority to Vacant & Underutilized)
- Other Underutilized Right-of-Way
- Vacant Private Parcels
- Underutilized Private Parcels (Only Applied to Housing Need)
- Pedestrian Street Network



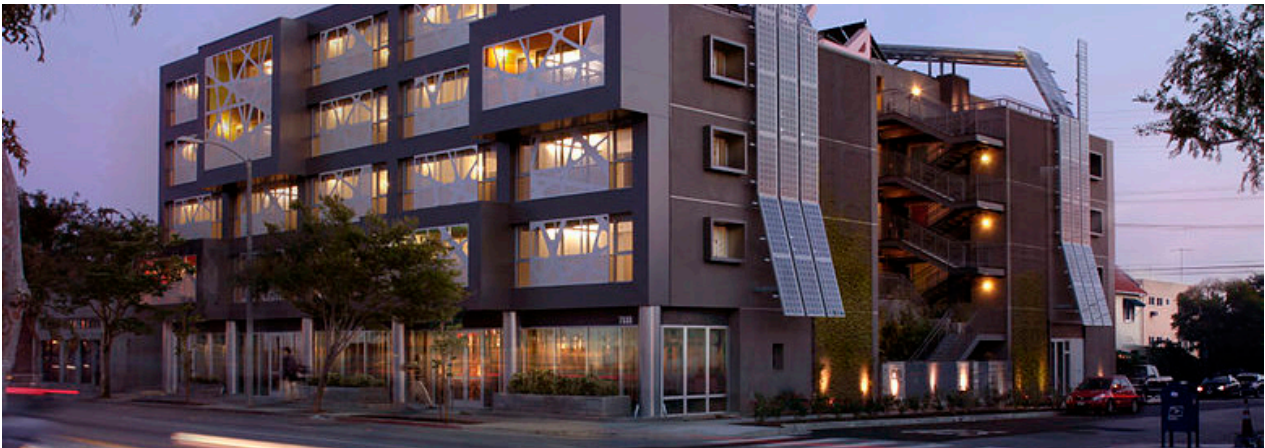
# CADENCE



Source: USACE Los Angeles district, Paddle the LA River 2012






Source: Flickr, Bryan Fernandez, 2010. <https://www.flickr.com/photos/dailymatador/4492204629>



Source: Art Gray, 2010. Wikipedia. [https://en.wikipedia.org/wiki/File:Sierra\\_bonita\\_housing.jpg](https://en.wikipedia.org/wiki/File:Sierra_bonita_housing.jpg)

SITES

# OVERLAYS

-  River Improvement Overlay Zone (LARRMP)
-  Habitat Restoration Zones (ARBOR Study)
-  Opportunity Zones (LLARRP)

Source: OLIN, Geosyntec, based on Lower LA River Revitalization Plan (2017) ARBOR Study (2015), and LA River Revitalization Master Plan (2007).



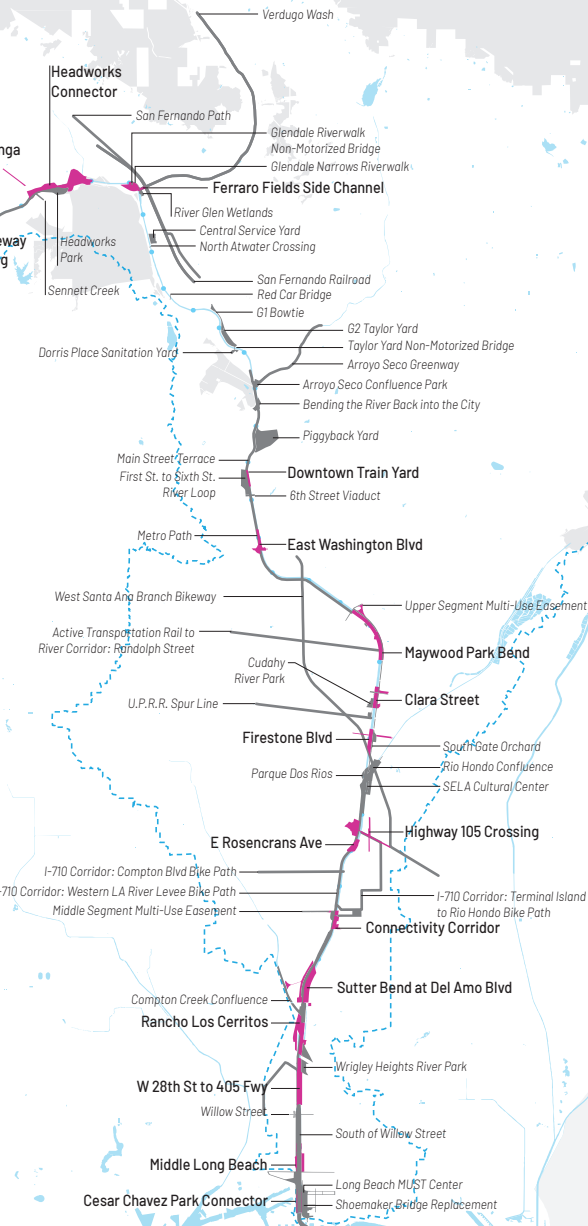
SITES

# M, L, XL SITE-BASED PROJECTS

22 PROPOSED PROJECT SITES  
54 PLANNED MAJOR PROJECTS

- Proposed Project Sites
- Planned Major Projects

Sources: OLIN, Gehry Partners, Geosyntec



SITES

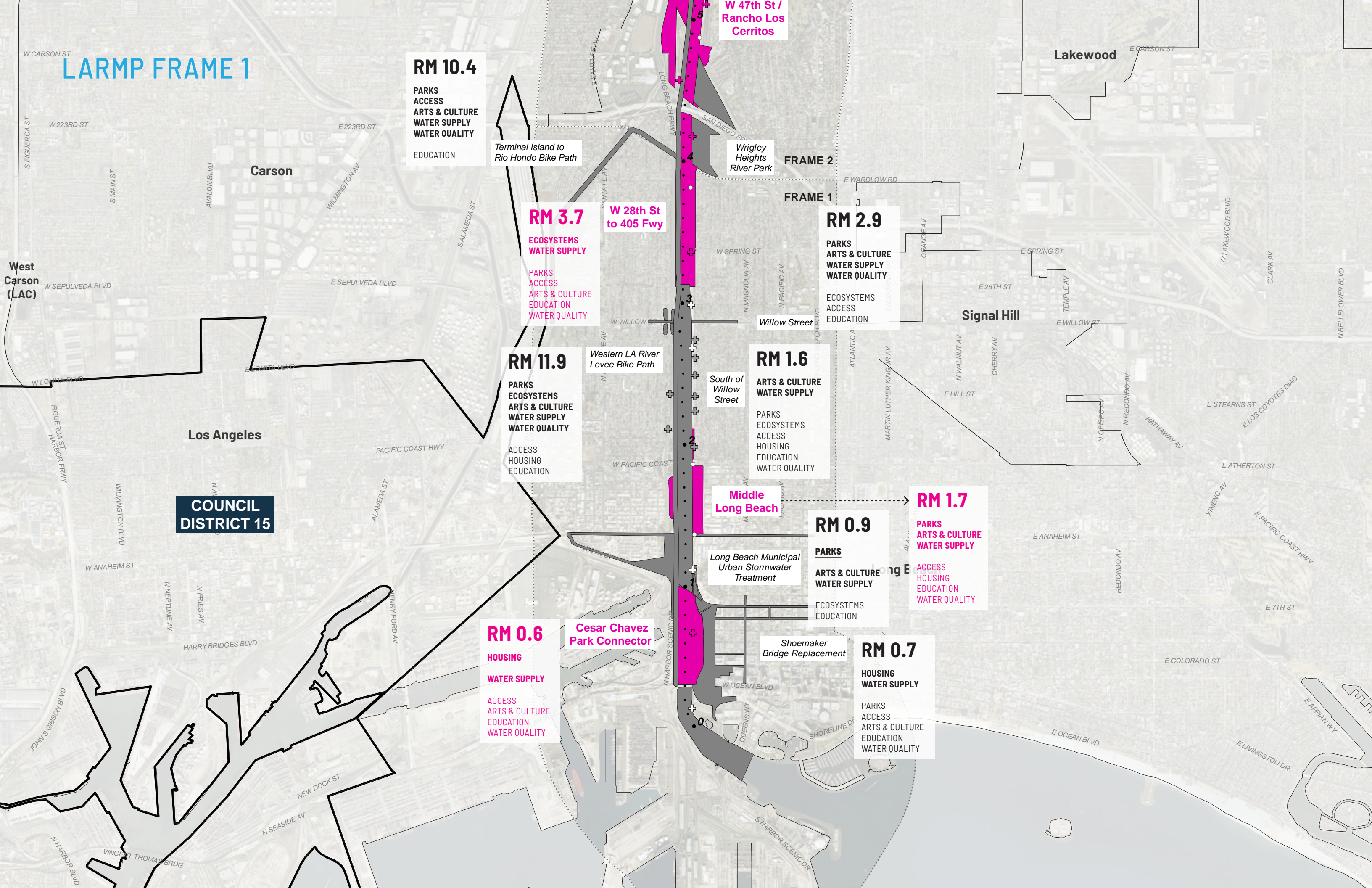
# XS, S PROJECTS

43 NEWLY PROPOSED PROJECTS  
123 ADDITIONAL PROJECTS FROM PLANS  
42 IMPROVED ACCESS POINTS

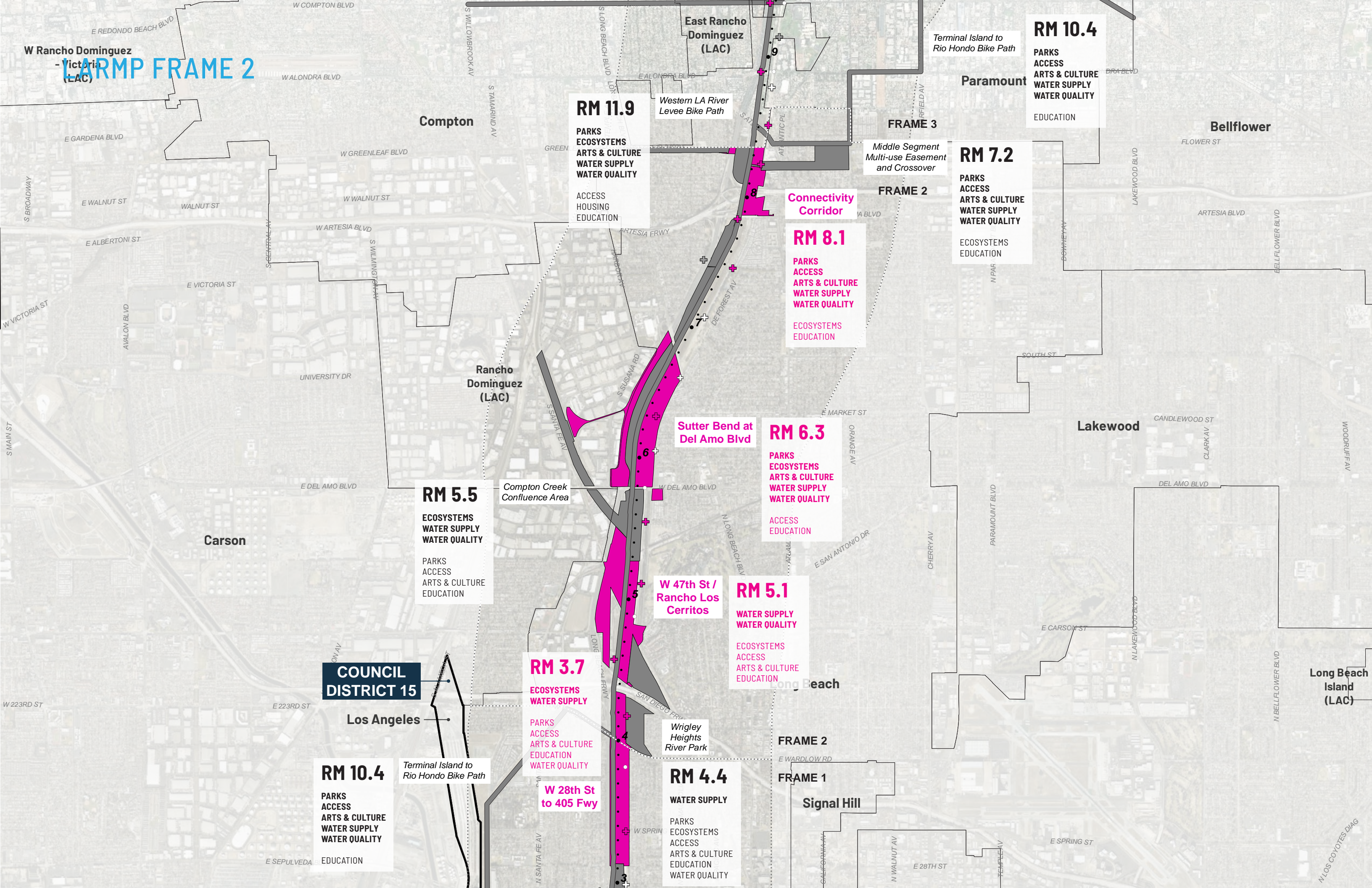
- ✚ XS, S Proposed Projects
- ✚ XS, S Projects from Plans\*
- ✚ Potential Access Points to Upgrade
- Existing Access Points



LARMP FRAME 1







W Rancho Dominguez - Victoria (LAC)

# LAMP FRAME 2

**RM 11.9**

PARKS  
ECOSYSTEMS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

ACCESS  
HOUSING  
EDUCATION

**Connectivity Corridor**

**RM 8.1**

PARKS  
ACCESS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

ECOSYSTEMS  
EDUCATION

**RM 10.4**

PARKS  
ACCESS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

EDUCATION

**RM 7.2**

PARKS  
ACCESS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

ECOSYSTEMS  
EDUCATION

**RM 6.3**

PARKS  
ECOSYSTEMS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

ACCESS  
EDUCATION

**RM 5.1**

WATER SUPPLY  
WATER QUALITY

ECOSYSTEMS  
ACCESS  
ARTS & CULTURE  
EDUCATION

**W 47th St / Rancho Los Cerritos**

**RM 3.7**

ECOSYSTEMS  
WATER SUPPLY

PARKS  
ACCESS  
ARTS & CULTURE  
EDUCATION  
WATER QUALITY

**W 28th St to 405 Fwy**

**RM 4.4**

WATER SUPPLY

PARKS  
ECOSYSTEMS  
ACCESS  
ARTS & CULTURE  
EDUCATION  
WATER QUALITY

**RM 5.5**

ECOSYSTEMS  
WATER SUPPLY  
WATER QUALITY

PARKS  
ACCESS  
ARTS & CULTURE  
EDUCATION

**COUNCIL DISTRICT 15**

**RM 10.4**

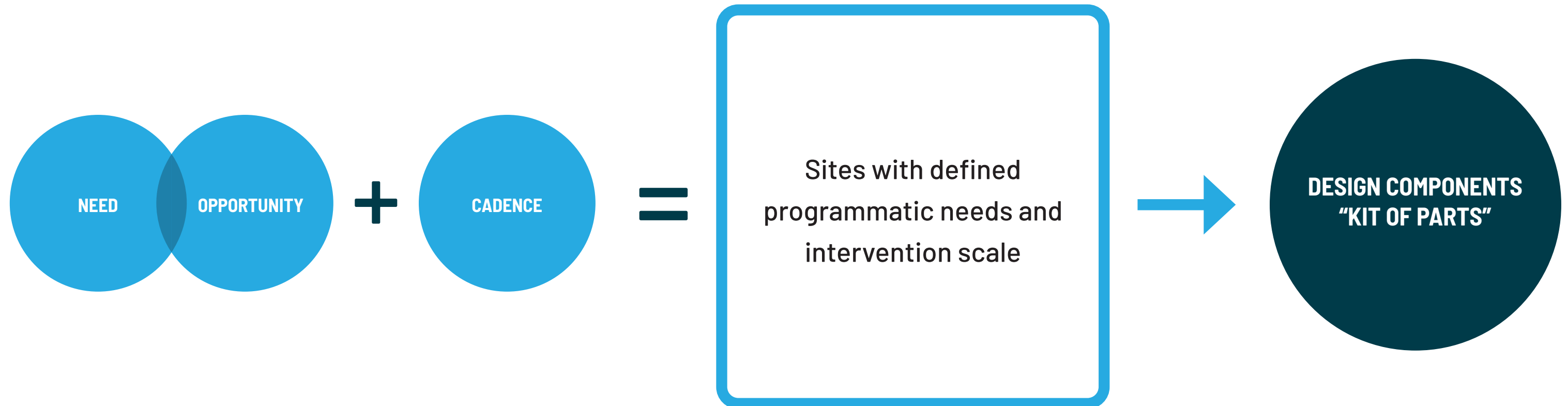
PARKS  
ACCESS  
ARTS & CULTURE  
WATER SUPPLY  
WATER QUALITY

EDUCATION

Terminal Island to Rio Hondo Bike Path



# GOAL-DRIVEN DESIGN FRAMEWORK

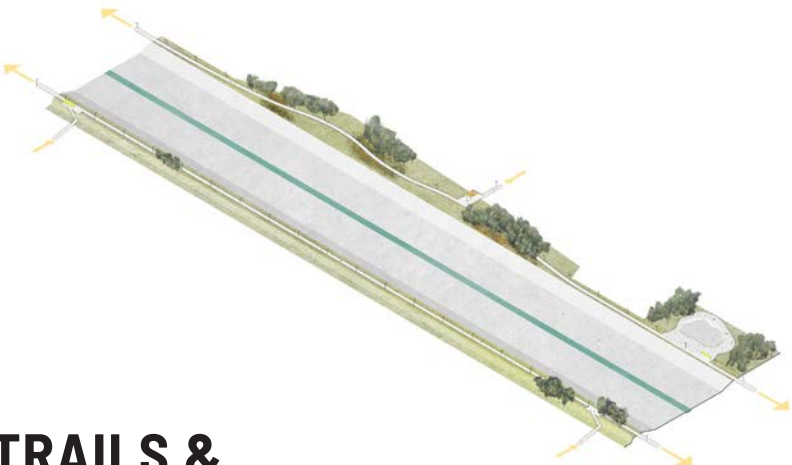


# KIT OF PARTS: EXAMPLE

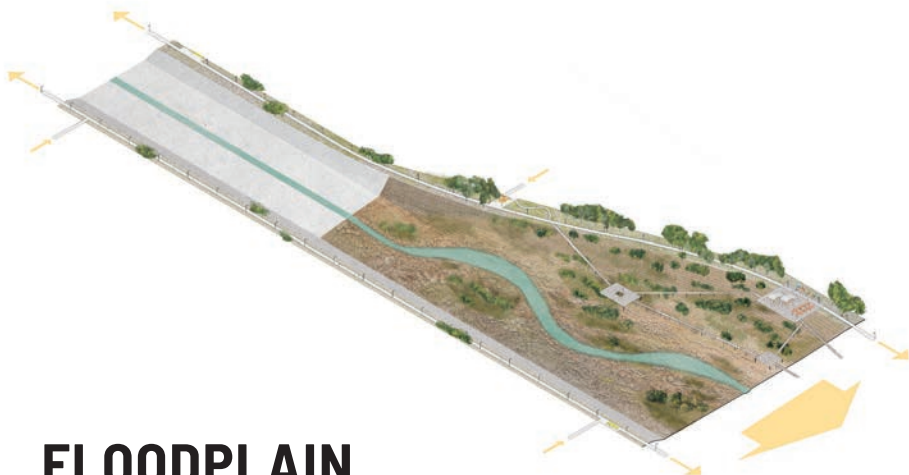
NEED	OPPORTUNITY	CADENCE (SCALE)	DESIGN COMPONENT
Flood risk reduction + Water quality + Habitat	Landside RM 11.5 Right bank (Vacant parcel, Publicly owned)	15 acres	Wetland



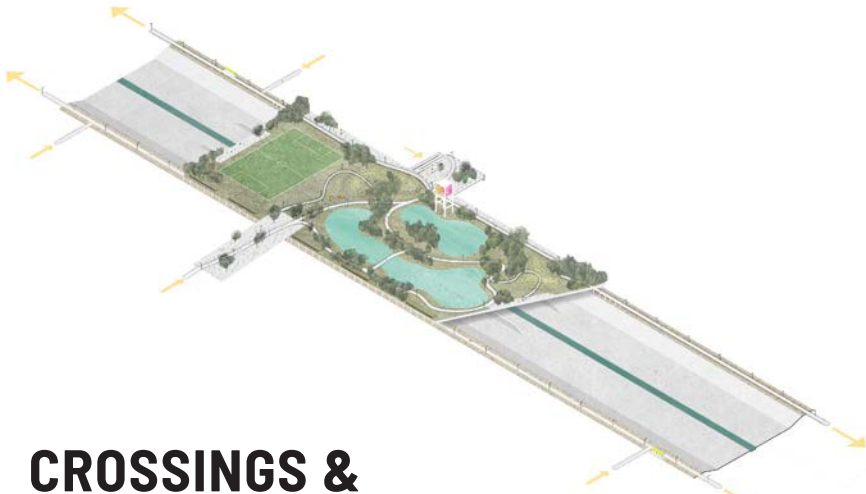
# KIT OF PARTS: CATEGORIES



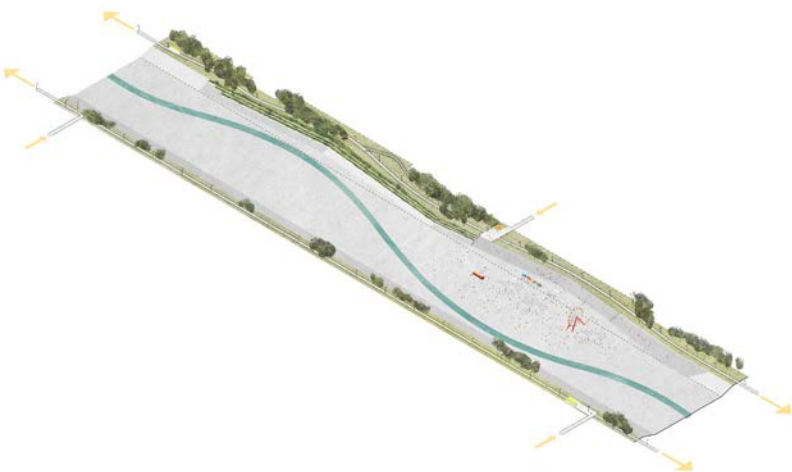
**TRAILS &  
ACCESS GATEWAYS**



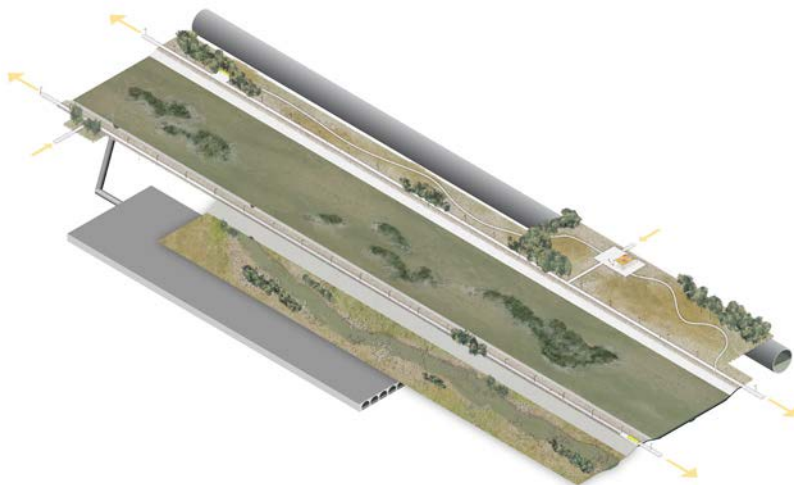
**FLOODPLAIN  
RECLAMATION**



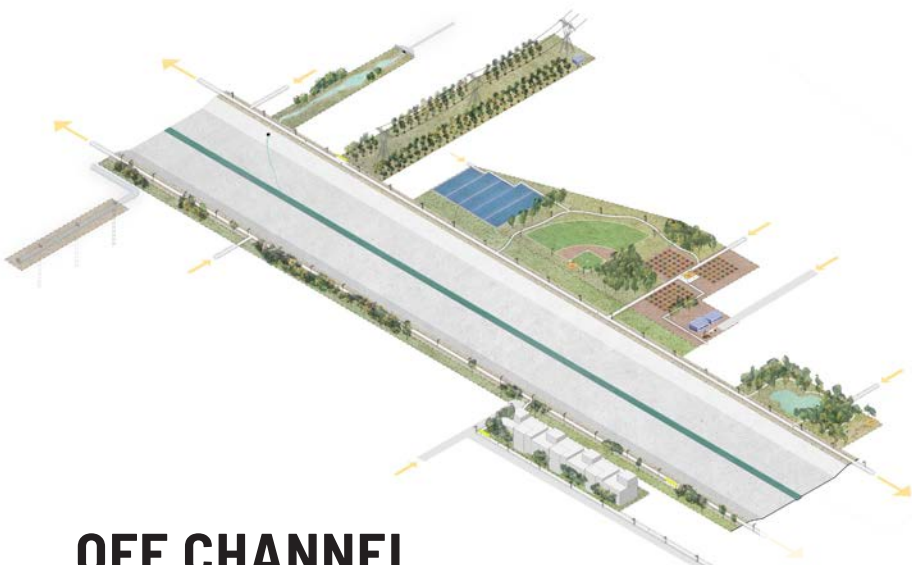
**CROSSINGS &  
PLATFORMS**



**CHANNEL  
MODIFICATIONS**

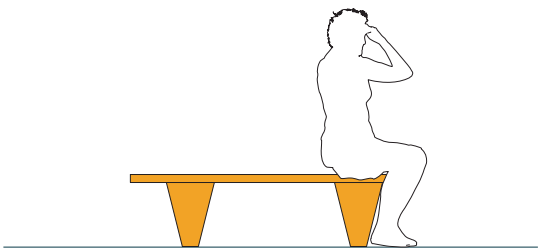


**DIVERSIONS**

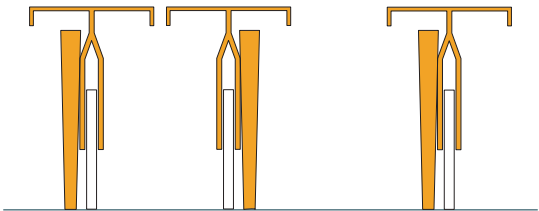


**OFF CHANNEL  
LAND ASSETS**

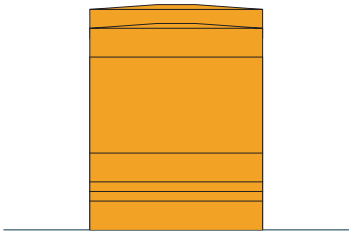
# INVENTORY OF REPEATED COMMON ELEMENTS



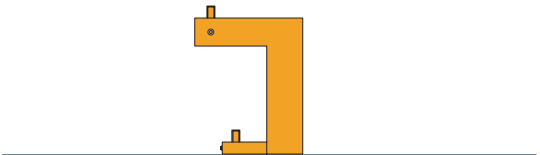
**BENCHES**



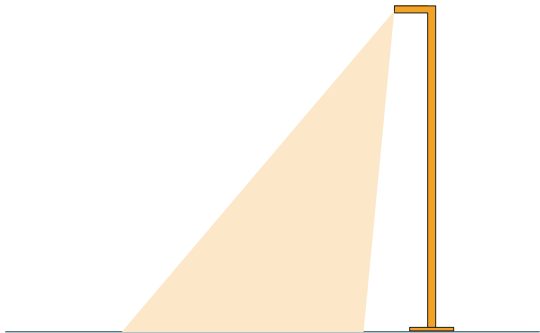
**BIKE RACKS**



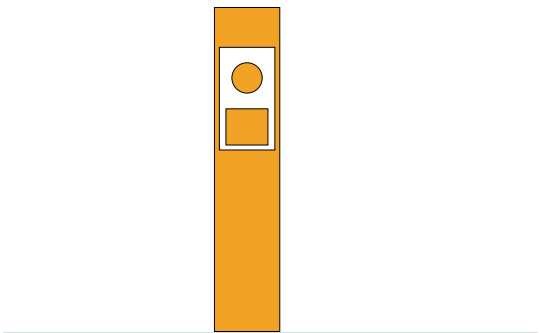
**TRASH & RECYCLING**



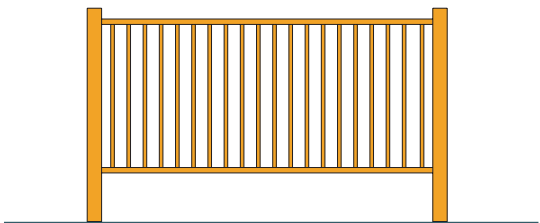
**WATER FOUNTAINS**



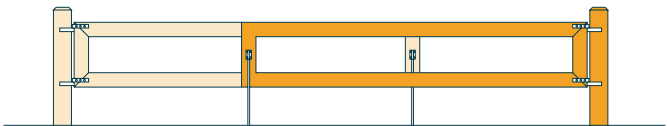
**LIGHTING**



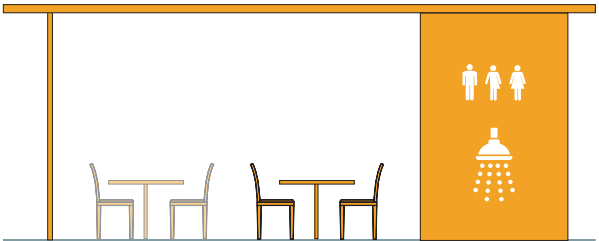
**EMERGENCY CALL BOXES**



**GUARDRAILS**



**FENCES & GATES**



**PAVILIONS**



**HYGIENE FACILITIES**



**ART**

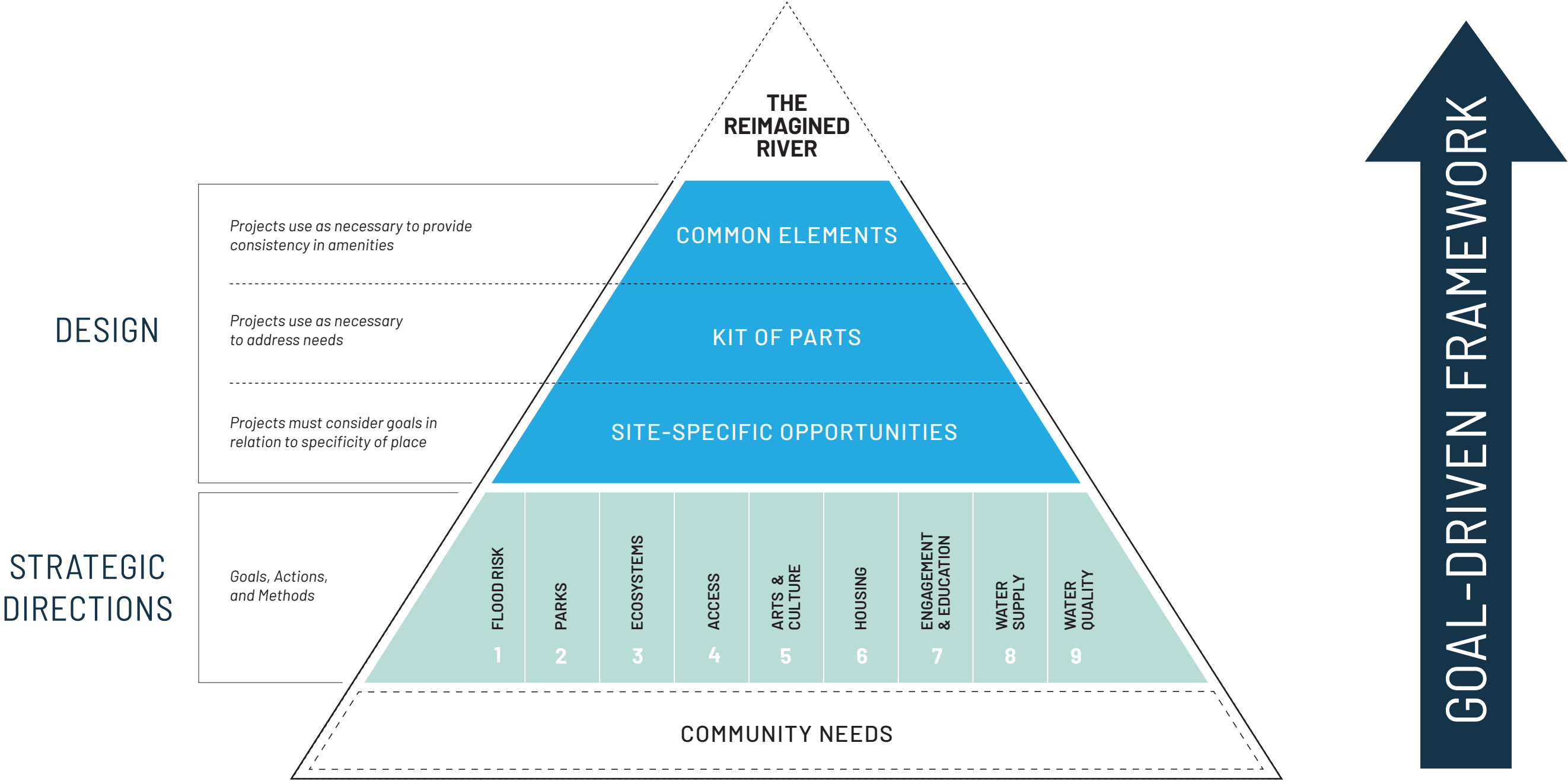


**ENVIRONMENTAL GRAPHICS**

\*Common elements are great opportunities to integrate art  
Source: OLIN, Gehry Partners



# PROJECTS SHOULD BUILD UPON THE GOALS USING THE KIT OF PARTS AND COMMON ELEMENTS





# WHAT'S IN THE PLAN



# WHAT'S IN THE PLAN

## STRATEGIC DIRECTIONS

- **Goals, Actions, Methods**
- **Implementation  
Responsibility and  
Partners**
- **Funding Sources**

## DESIGN FRAMEWORK

- **Needs Analysis**
- **Sites**
- **Kit of Parts and  
Common Elements**  
(possible intervention  
strategies)
- **System Recommendations**
- **Design Examples**

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LARMP

## SECTION I: INTRODUCTION

- Executive Summary
- Master Plan 2020

## SECTION II: CONTEXT

- History of the River
- Existing Conditions Summary

## SECTION III: FUTURE OF THE LA RIVER

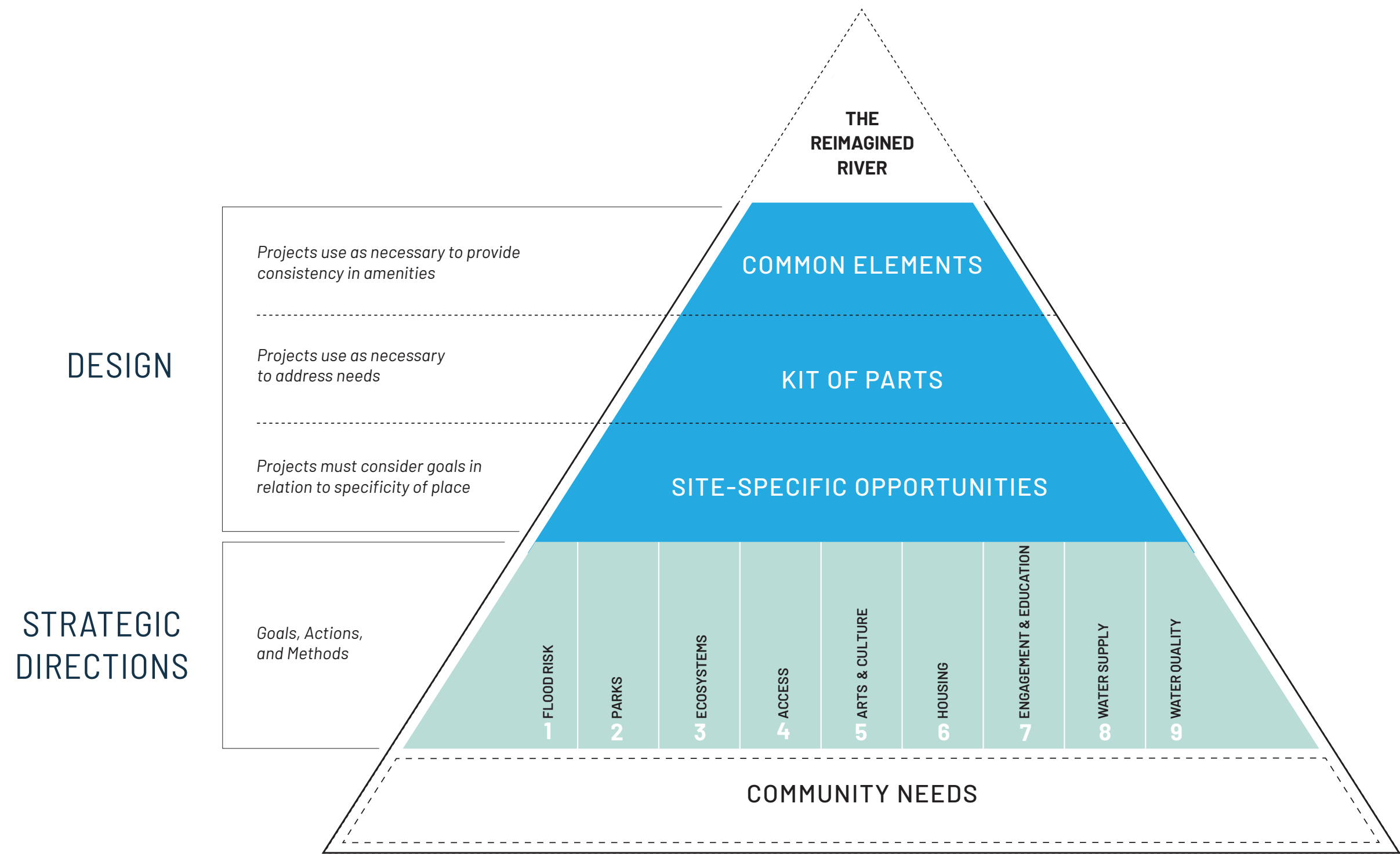
- Goals and Needs
- Sites
- Design Framework

## SECTION IV: IMPLEMENTATION

- Public Stewardship
- System Management
- Operations and Maintenance
- Funding Sources
- Implementation and Funding Matrix



# GOAL-DRIVEN FRAMEWORK





# EXAMPLE OF COMMON ELEMENTS: PAVILION COMPONENTS

SHADE PAVILIONS (TIER I)



REST PAVILIONS (TIER II)



GATHERING PAVILIONS (TIER III)



GATHERING PAVILIONS (TIER III)





# EXAMPLE OF SITE SPECIFIC OPPORTUNITIES: RM 8.1 COMPTON - PARAMOUNT CONNECTIVITY CORRIDOR





**EXAMPLE OF SITE SPECIFIC OPPORTUNITIES:  
FERRARO FIELDS SIDE CHANNEL**







**[LARiverMasterPlan.org](http://LARiverMasterPlan.org)**