LOS ANGELES RIVER MASTER PLAN UPDATE

Steering Committee Meeting #5

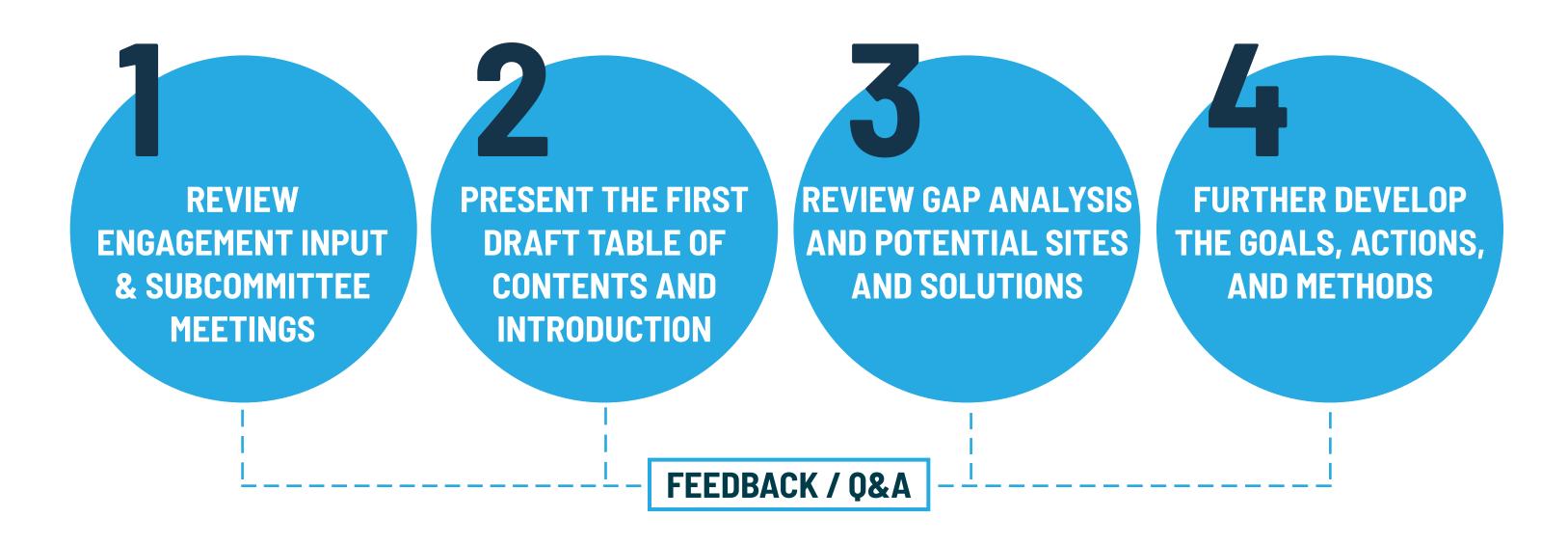


10 April 2019





PURPOSE OF TODAY'S MEETING



WELCOME

MEETING AGENDA

WELCOME AND AGENDA OVERVIEW	COMMUNITY ENGAGEMENT UPDATE	SUBCOMMITTEE MEETINGS REPORT	WHAT'S IN THE PLAN	GOAL-DRIVEN FRAMEWORK	PUBLIC COMMENT	WRAP UP
 River story Roundtable Introductions Meeting Purpose, Agenda, and Objectives Welcome and Steering Committee Updates 	 Other Meetings Review Round 1 and Preview Round 2 Studio City and West Valley Meetings Community Partners Update Upcoming Events Discussion/Q&A 	 Subcommittee Hydrology Workshop December Subcommittee Meetings Discussion/Q&A 	 Table of Contents Introduction Role of the County Vision Discussion/Q&A 	 Locating Projects: Needs, Opportunities, and Cadence Site Selection Goal-Driven Design Framework: Kit of Parts Policy Discussion/Q&A 	 Verbal Comments Comment Cards Email Comments Anytime to LARiver@dpw. lacounty.gov 	 Important Upcoming Dates June Agenda Overview Community Outreach Events

INPUT, QUESTIONS, IDEAS?

Contact Genevieve Osmena at (626) 458-4322 or LARiver@dpw.lacounty.gov

WELCOME



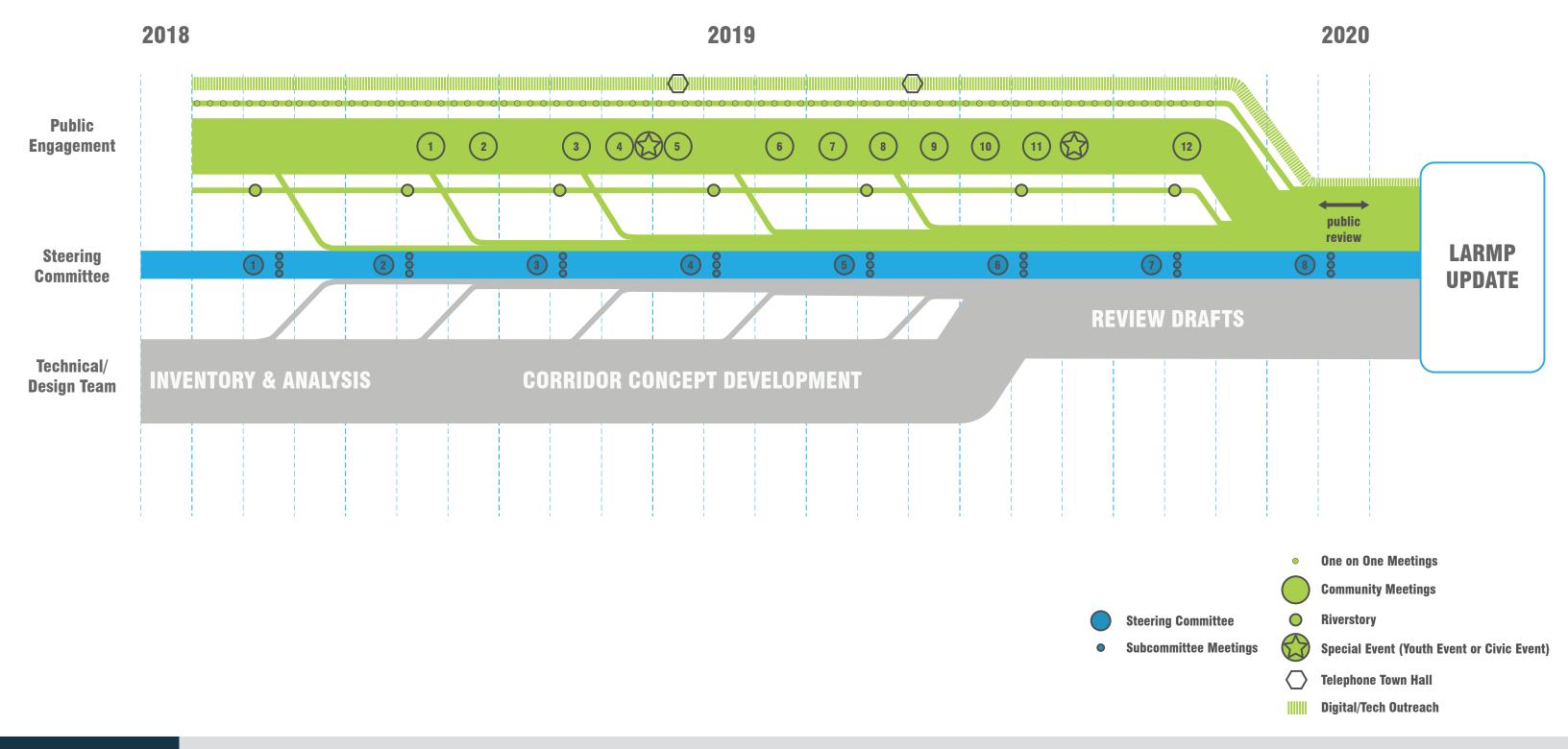
STEERING COMMITTEE CHARGE

To guide the Master Plan Update by providing input, ideas, comments, and feedback throughout the planning process, incorporating members' expertise, knowledge, and resources. The consultant team and Department of Public Works will consider the Steering Committee input when preparing the updated Master Plan, along with input from the broader community and stakeholder involvement process, technical and regulatory requirements, and other County needs and goals.

STEERING COMMITTEE MEMBER COMMITMENTS

- Contribute input based on knowledge and expertise in policy, technical, and community matters, while also considering planning from a holistic, river-wide perspective, seeking opportunities for a unified vision and continuity, balanced with recognition of the diversity in goals and needs in River communities.
- Partner with the project team in publicizing community engagement activities and generating involvement that represents the range and diversity of communities in the 51-mile Los Angeles River corridor, and attend community engagement activities on a regular basis.
- Consider community input and input from other stakeholders in Steering Committee meeting discussions.
- Participate at all meetings in-person or send an alternate for the entire two-year planning process.
- Review reference materials in advance of Steering Committee meetings.

LA RIVER MASTER PLAN SCHEDULE



STEERING COMMITTEE FRAMEWORK

2018 WE ARE HERE
2019

	1	2	3	4	5	6	7	8
Key Theme & Tentative Date	LAUNCH 11 APRIL 2018	INVENTORY & VISION PRINCIPLES 27 JUNE 2018	GOALS & ANALYSIS 26 SEPTEMBER 2018	GAPS & PLANNING 12 DECEMBER 2018	PRIORITIES & OPPORTUNITIES 10 APRIL 2019	DESIGNS & PLANS 26 JUNE 2019	PLANS & STANDARDS 25 SEPTEMBER 2019	DRAFT REVIEW 5 DECEMBER 2019
Dialogue Focus	Vision Brainstorming Project Schedule and Scope Committee Organization Draft Community Outreach Plan, Branding Strategy, and Website Flood Control History, Plan Priorities, Channel Strategies	Draft Vision Principles Existing Conditions Literature Review Community Outreach Plan Demographics, Affordable Housing, Displacement	Revised Draft Vision and Goals Goal-Driven Planning Jurisdictional Boundaries Water Resources, O&M, Access and Security, Safety, Homelessness Youth Summit	Policy Framework Planning Reaches Design Guidelines Review Geographic Gap Analysis Intro	Gap Analysis and Reach Prioritization Draft Planning Concepts Table of Contents Revised Goals, Actions, & Methods Introduction	Planning and Design Concepts Design Guidelines Goals, Actions, & Methods	Design Concepts and Design Guidelines Update	Preview of LARMP Key Concepts







MEETINGS WITH OTHER ORGANIZATIONS

UPPER LA RIVER AND TRIBUTARIES (AB466)

February 28, 2019



- Data compilation ongoing includes park need, land opportunities, and project database
- Site ID with prioritization planning consistent with Lower LA River Revitalization Project
- Gap Analysis and Project Criteria Development updates as well along tributaries

RIVER RANGERS (AB1558)

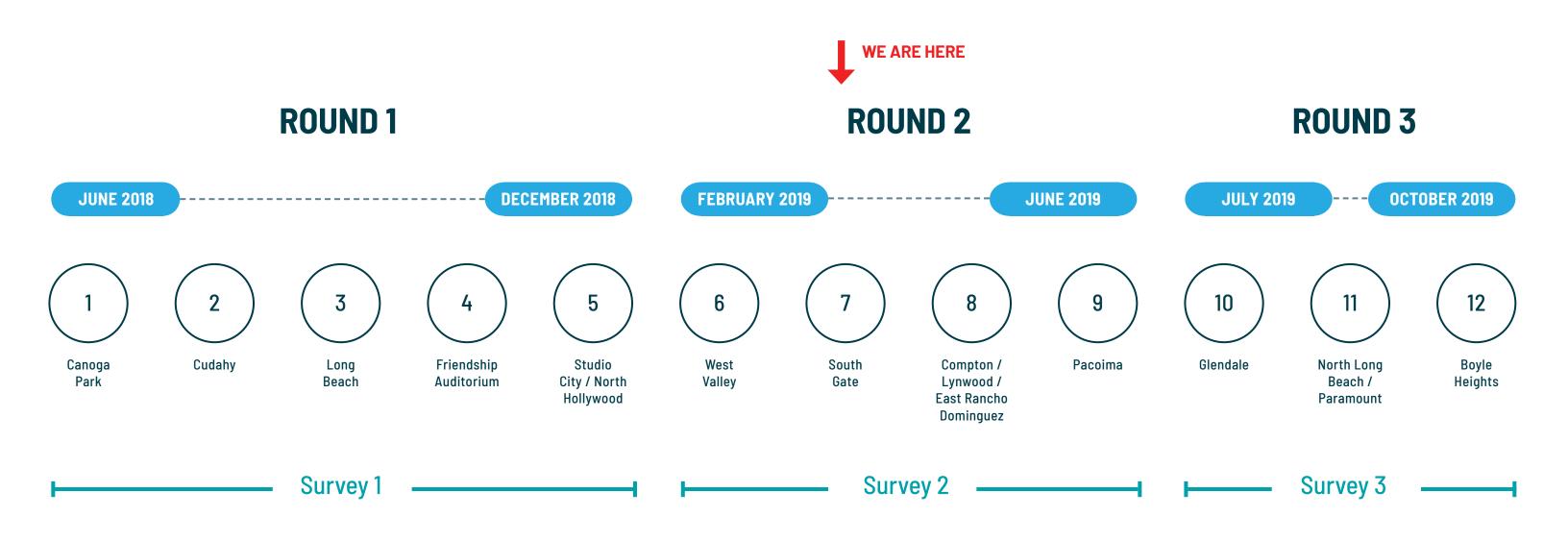


Source: Arroyo Seco Foundation, https://www.arroyoseco.org/rangers.htm

Program Goals:

- Maintenance and Resource Management
- Public Safety
- Recreation, Interpretation, and Educational Programs
- Outreach
- Administration

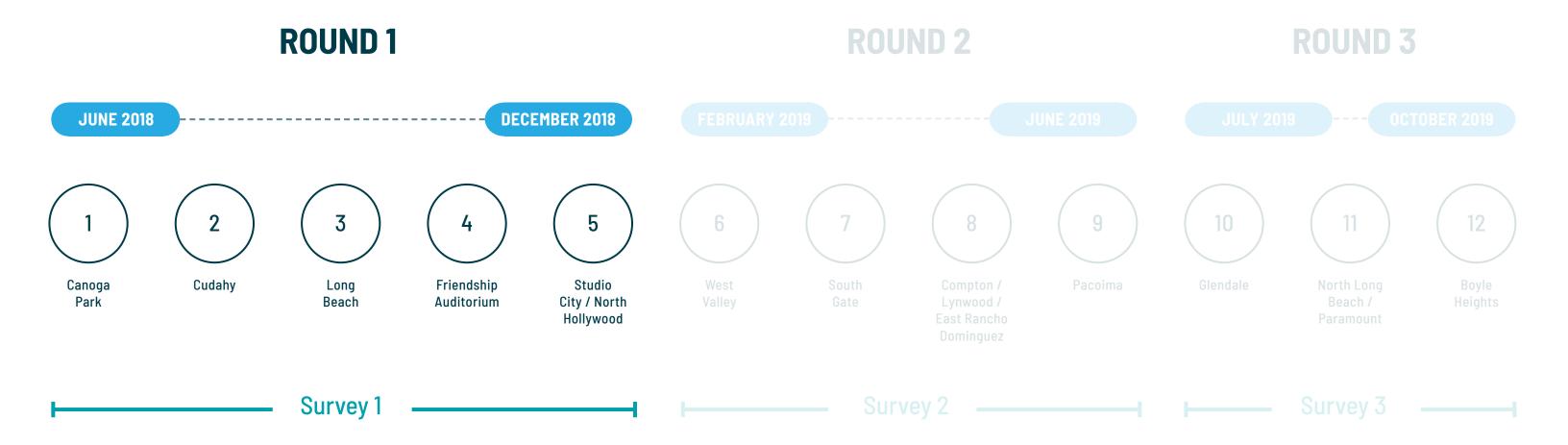
COMMUNITY ENGAGEMENT MEETINGS



WELCOME ENGA



COMMUNITY ENGAGEMENT MEETINGS





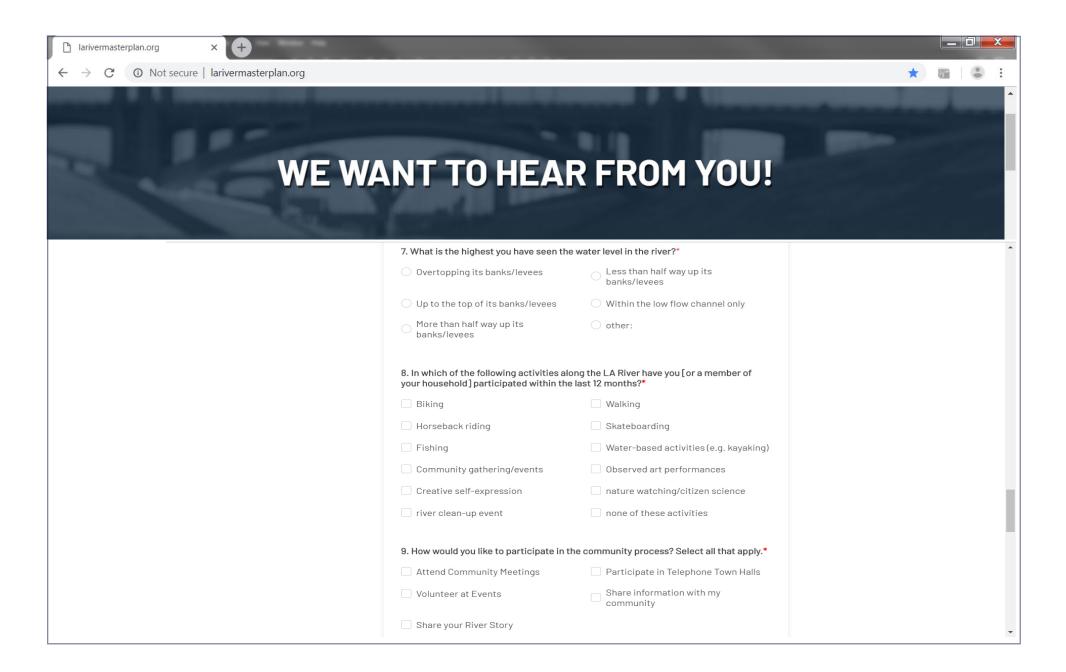








SURVEYS





OVER 1,550 ENGAGED IN COMMUNITY MEETINGS & SURVEY

Community members attended the Canoga Park meeting

126 Community members attended the Cudahy meeting

Community members attended the Long Beach meeting

214 Community members attended the Friendship Auditorium meeting

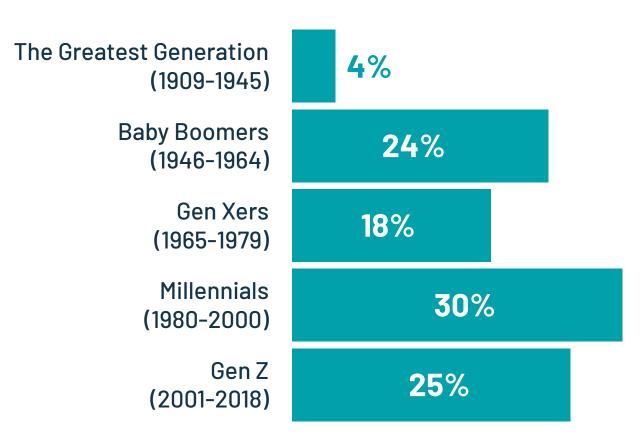
Community members attended the Studio City meeting

Completed digital and in-person surveys as of January 29, 2019

Completed Youth Summit surveys

GENERATIONS REPRESENTED:

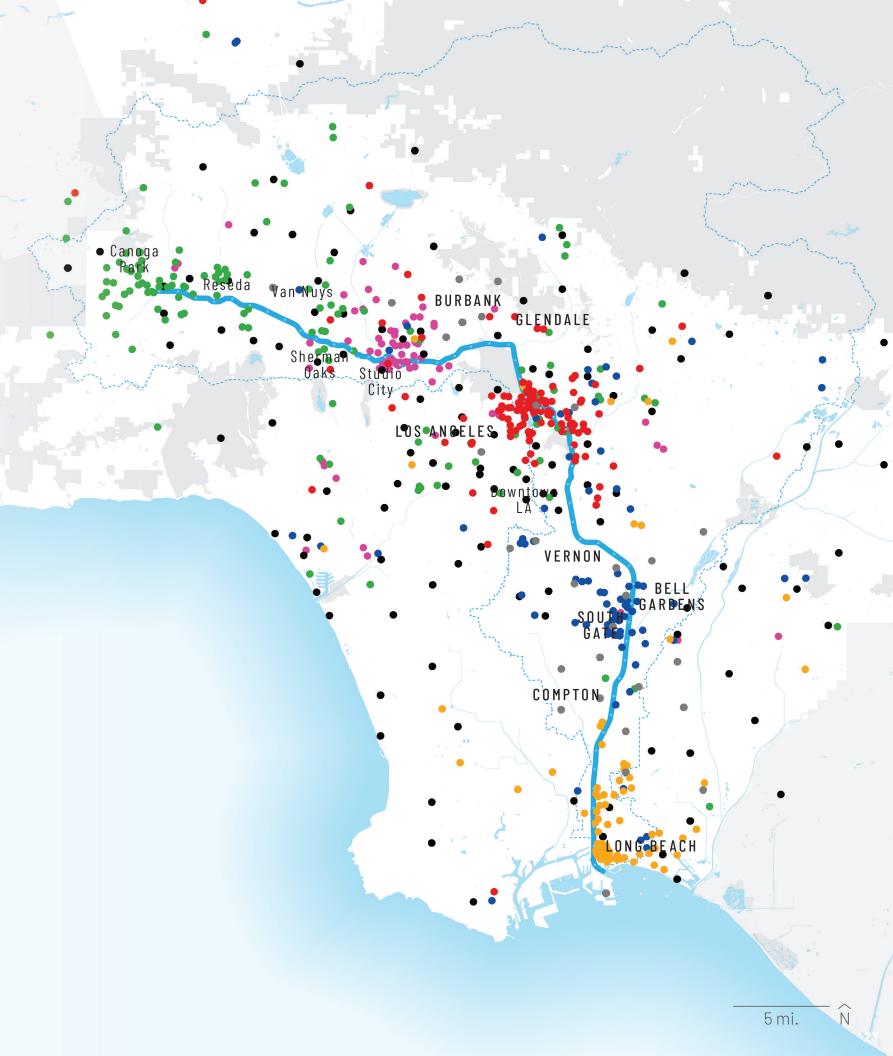
(Total from Survey + Community Meetings + Youth Summit)



ENGAGEMENT UPDATE ROUND 1

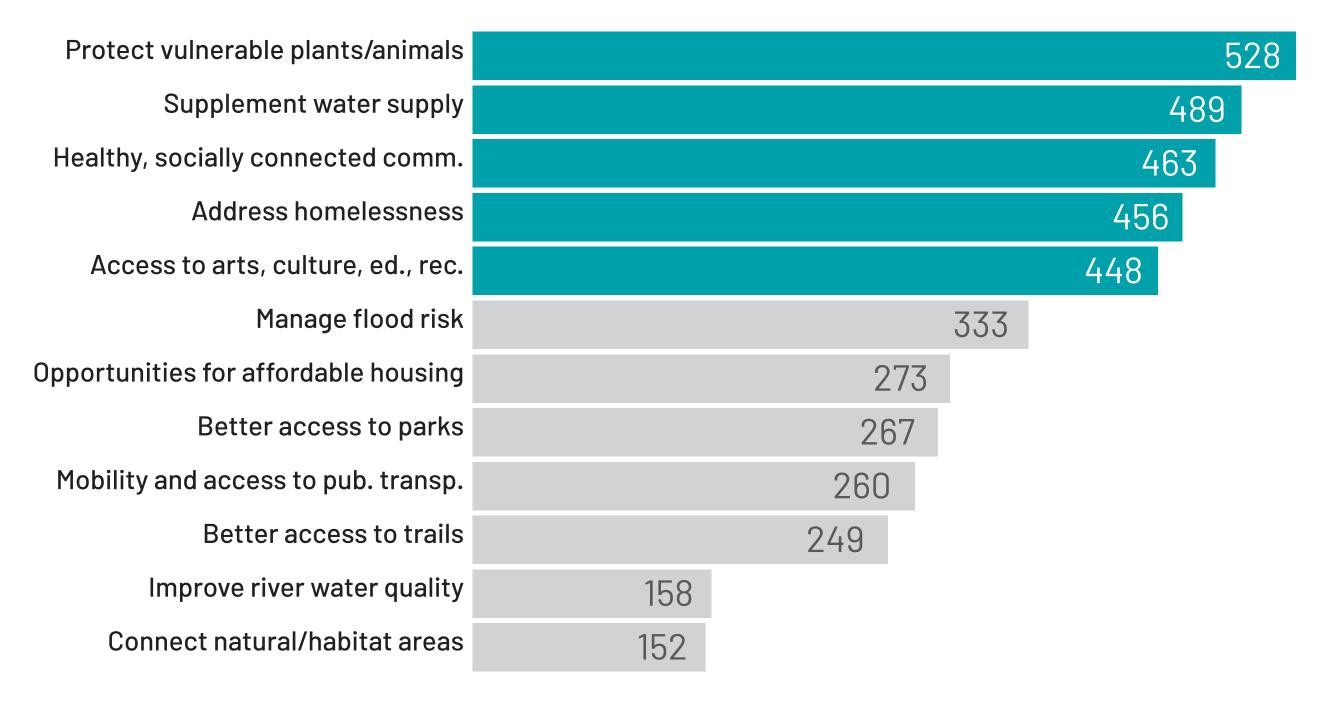
WHERE DO YOU LIVE?

- Digital Survey Respondents
- Canoga Park Attendees
- Cudahy Attendees
- Friendship Auditorium Attendees
- Long Beach Attendees
- Studio City / North Hollywood Attendees
- Youth Survey Respondents





WHICH ISSUES ARE MOST IMPORTANT TO YOU?



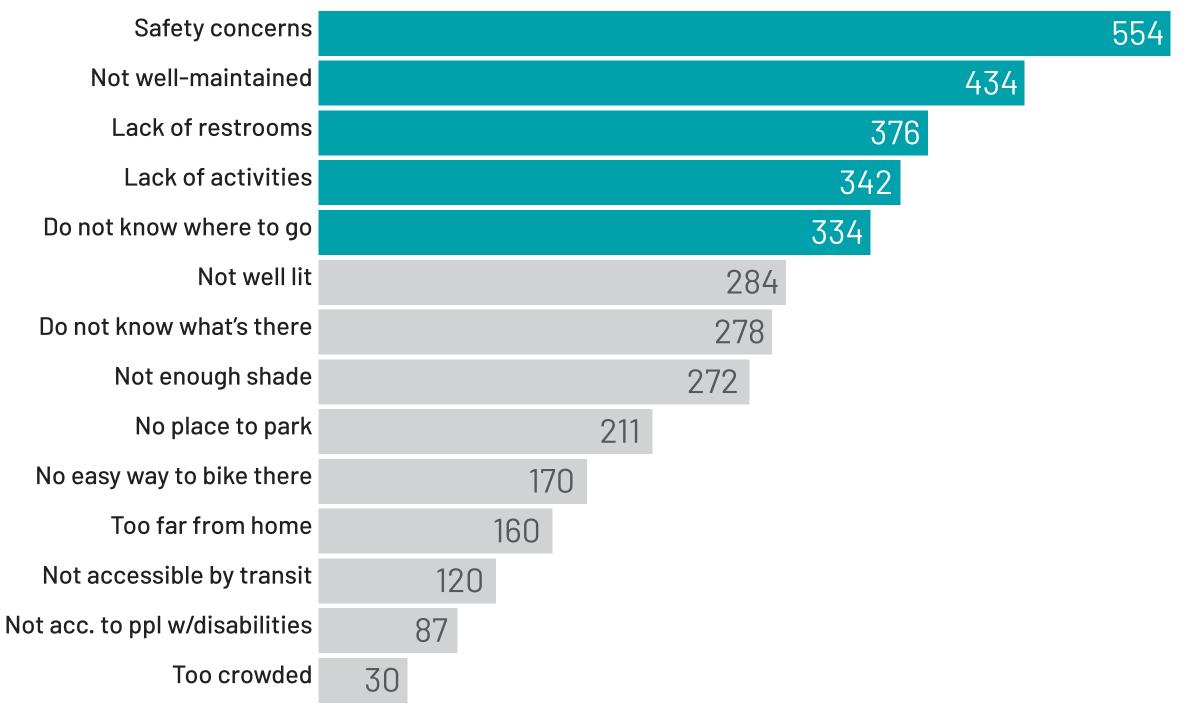


WHAT 3 WORDS WOULD YOU USE TO DESCRIBE THE LA RIVER?

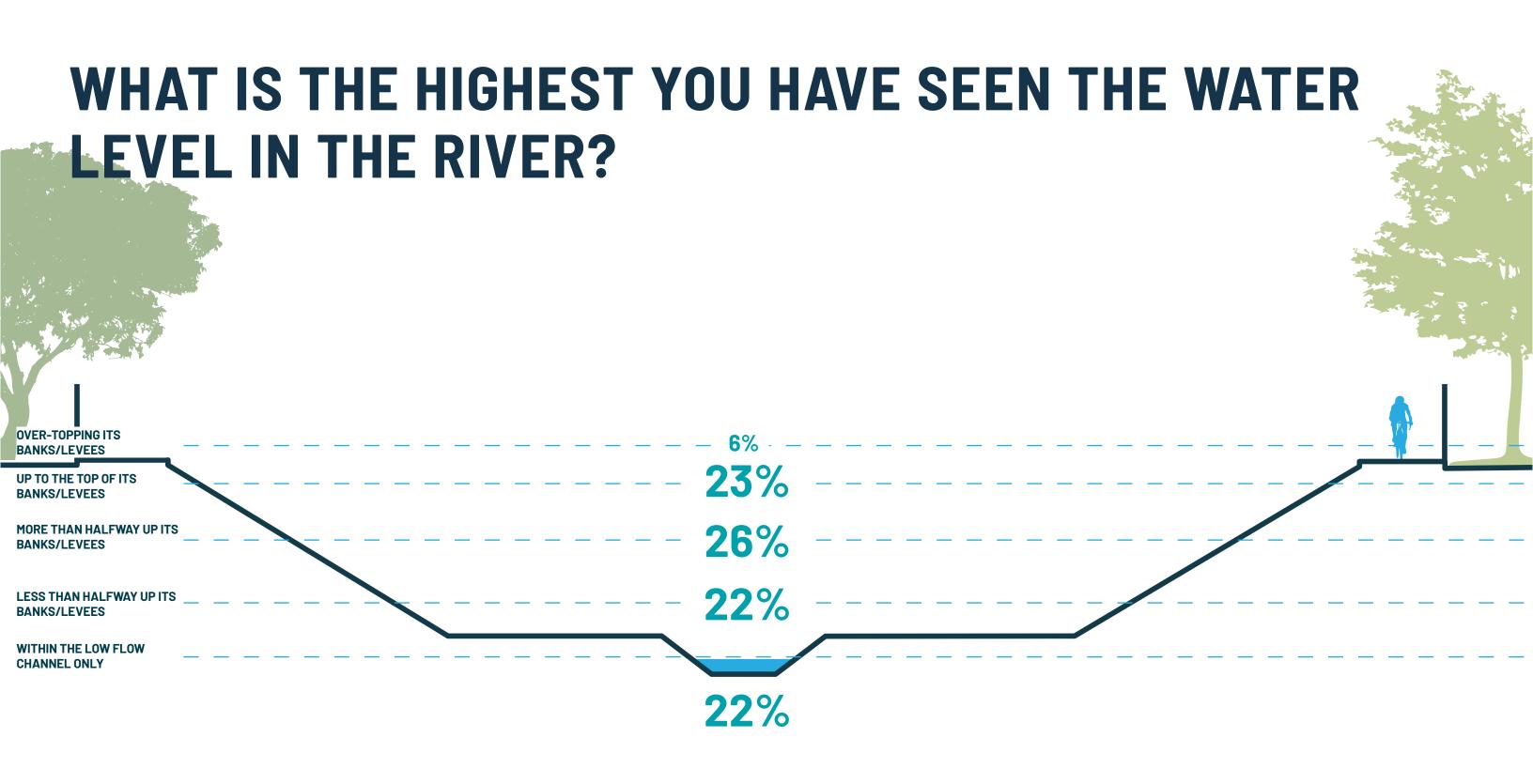




WHAT KEEPS YOU FROM VISITING THE LA RIVER?

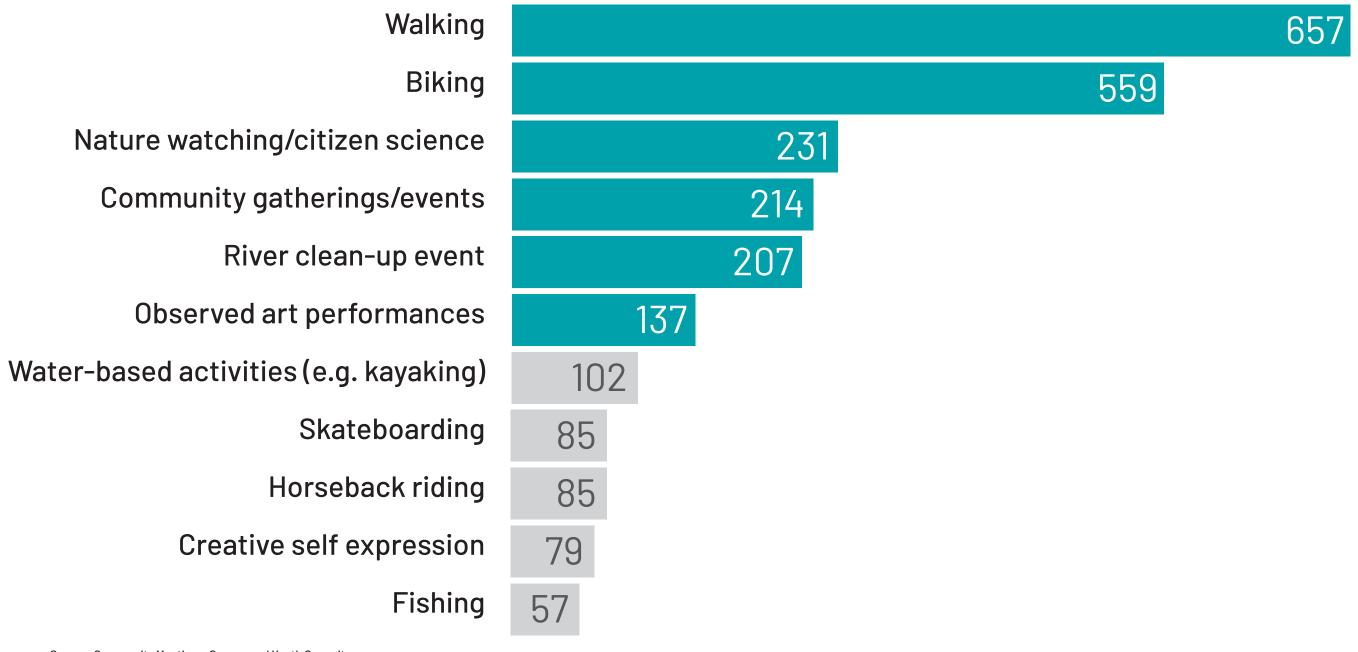




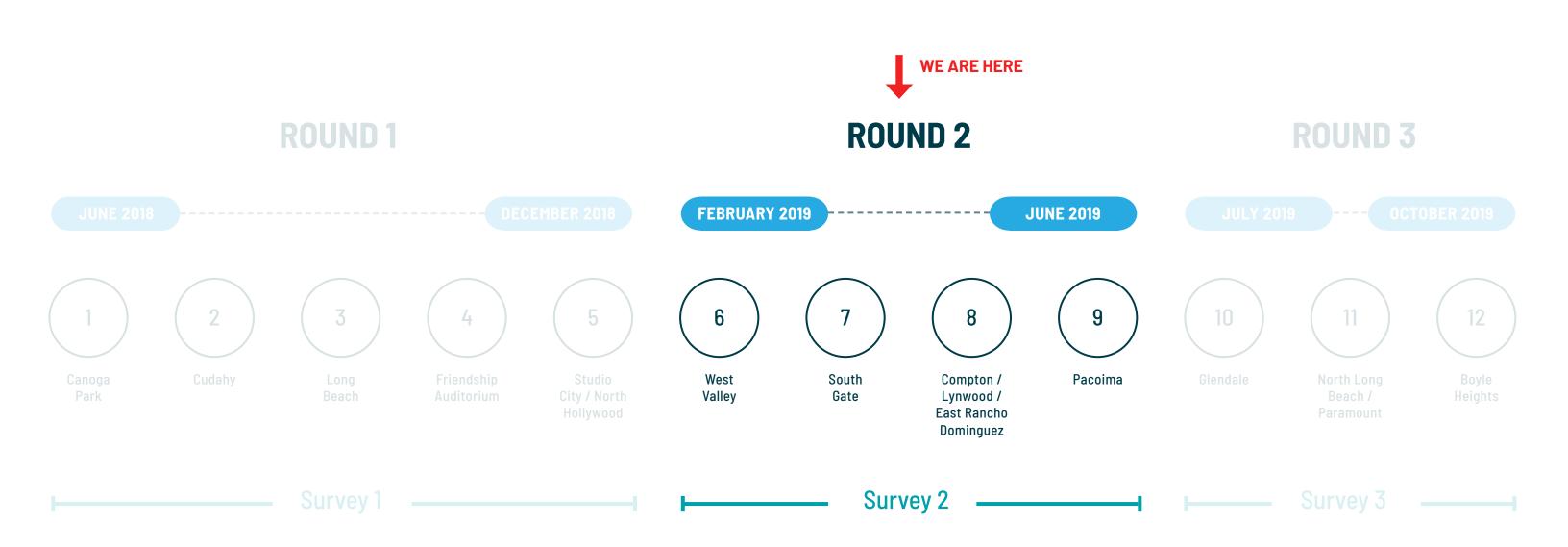




IN WHAT ACTIVITIES HAVE YOU PARTICIPATED ALONG THE LA RIVER?



COMMUNITY ENGAGEMENT MEETINGS



WELCOME ENGAGEMENT UPDATE







ENGAGEMENT UPDATE ROUND 2 (FEBRUARY - MARCH)

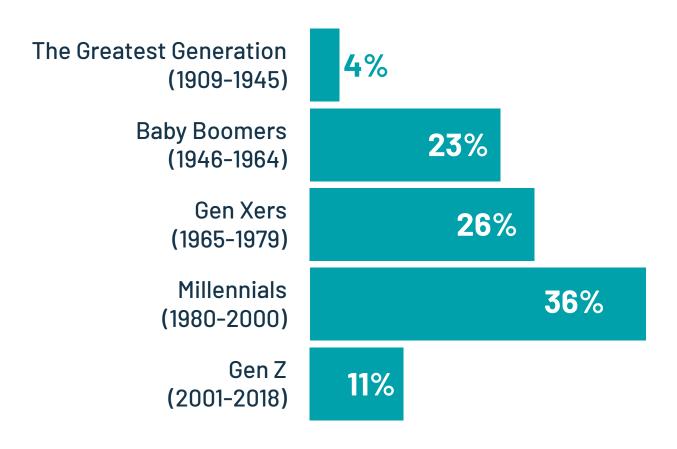
205 ENGAGED IN COMMUNITY **MEETINGS & SURVEY**

Community members attended the West Valley meeting

Community members attended the South Gate meeting

Completed digital and in-person surveys as of February 28, 2019

GENERATIONS REPRESENTED:



Source: Community Meetings, Survey

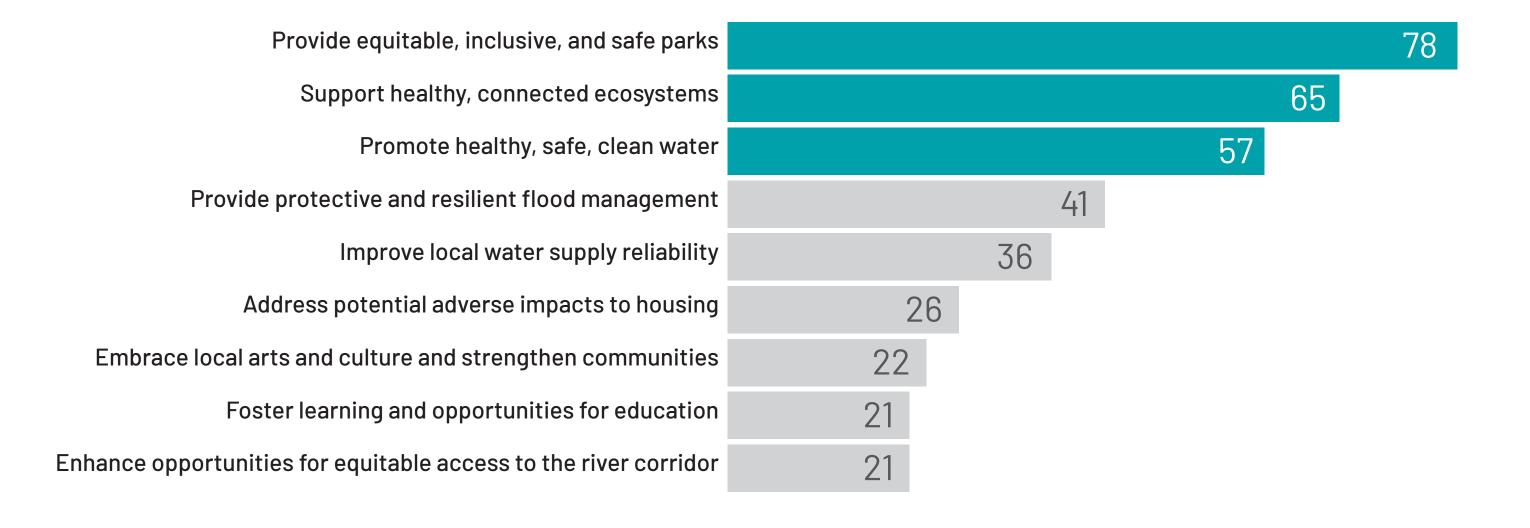
ENGAGEMENT UPDATE ROUND 2 (FEBRUARY - MARCH)

WHERE DO YOU LIVE?

- West Valley Attendees
- South Gate Attendees
- Digital Survey Respondents

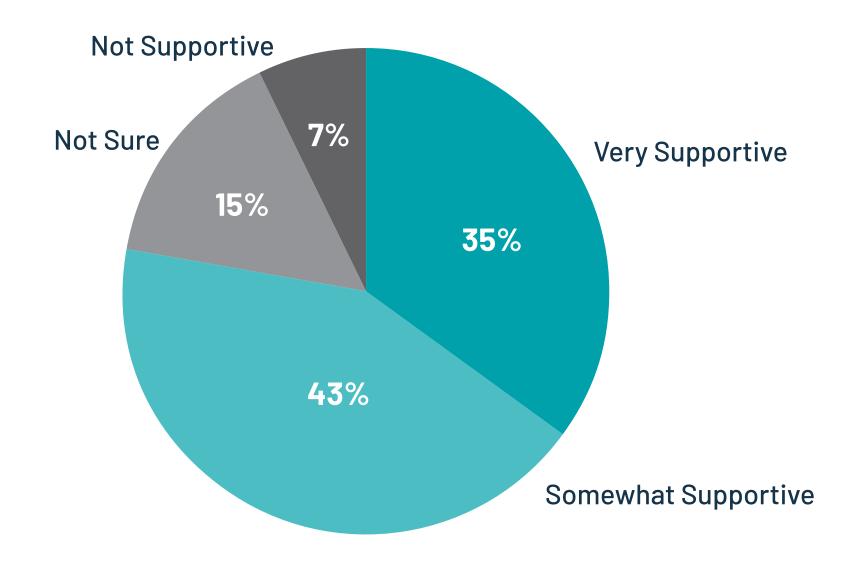


WHICH OF THE GOALS FOR THE LA RIVER ARE MOST IMPORTANT TO YOU?



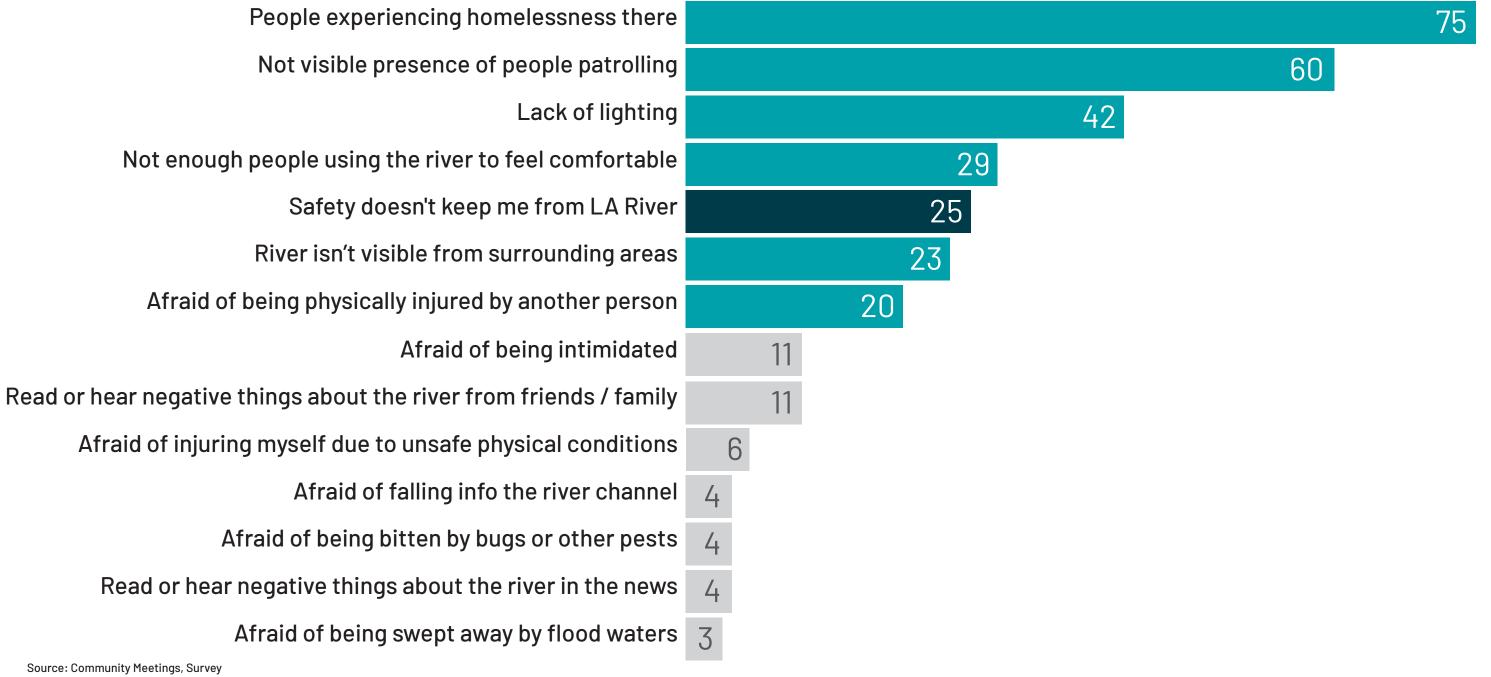
Source: Community Meetings, Survey

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?**



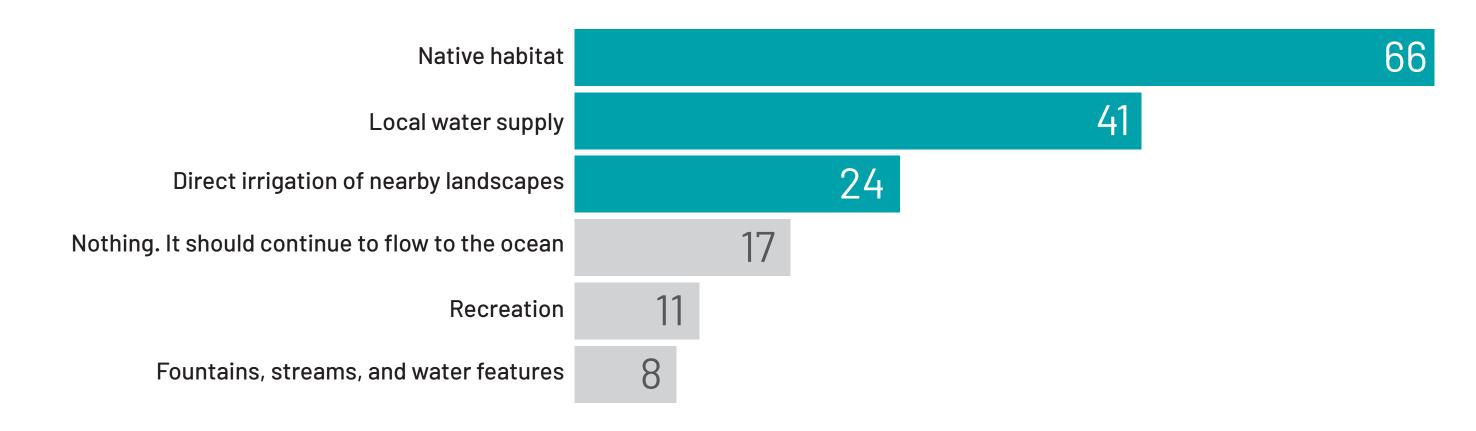
Source: Community Meetings, Survey

WHAT ABOUT SAFETY KEEPS YOU FROM VISITING THE LA RIVER?



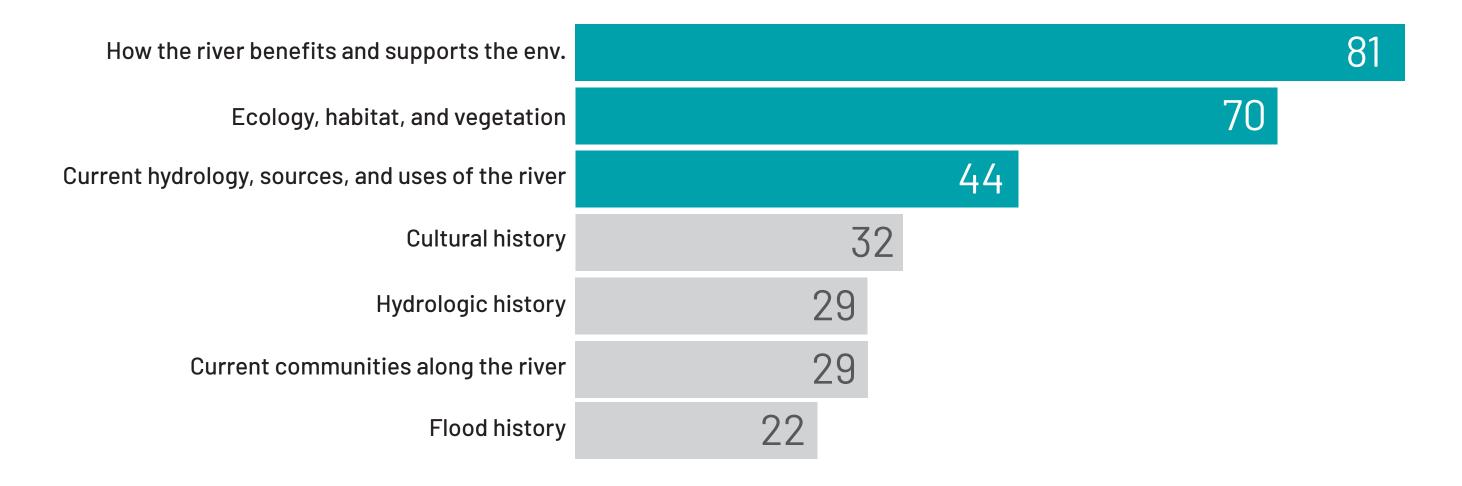
ENGAGEMENT UPDATE ROUND 2 (FEBRUARY - MARCH)

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



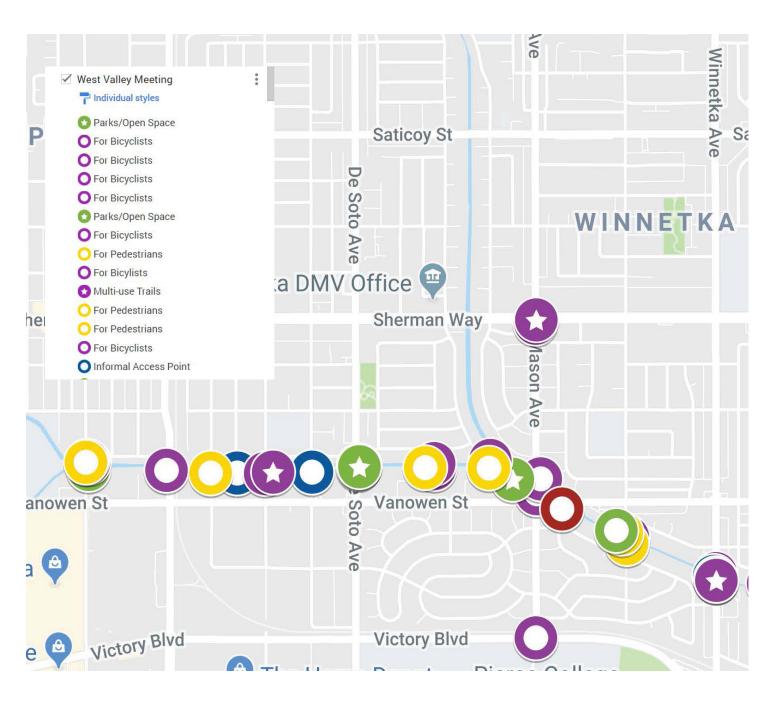
WHAT TYPES OF ART WOULD YOU LIKE TO SEE OR PARTICIPATE IN ALONG THE LA RIVER?

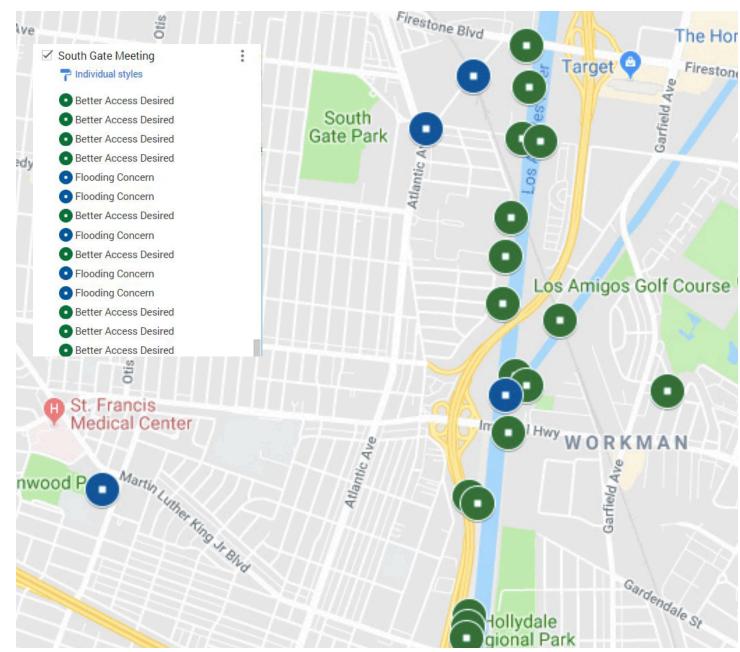


Source: Community Meetings, Survey



YOUR STRETCH OF THE RIVER





Source: West Valley Community Meeting responses

TELEPHONE TOWN HALLS

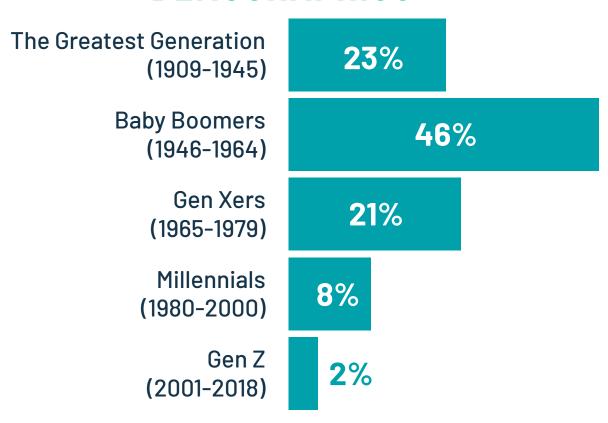
MARCH 12, 2019

Long Beach to Downtown LA

MARCH 13, 2019

Downtown LA to Canoga Park

DEMOGRAPHICS



Number of participants on the line at one time

5,592 Total number of participants

36,946 Households called within a half mile of the river

TELEPHONE TOWN HALLS

QUESTIONS ANSWERED LIVE!

- Have you taken into account native plants and trees?
- How will the homeless be accommodated?
- Is it possible to save some of the run-off for a drought?
- What measures are being taken to ensure safety of areas near the flood zone?
- How far is the LA River going to expand?
- What does the master plan include?
- Can we capture more trash before it gets to the river?

- When are they going to get rid of barrels that should never have been installed?
- What provisions are being made to bring back the wildlife, like the Valley Bullfrog?
- Are they going to plant milkweed along the river to help sustain the monarch butterfly?
- How much is this going to cost and who will be paying for it?
- Are there any plans to capture runoff?
- What are the options for habitat/adaptation if reclaimed water is used by residents?

COMMUNITY PARTNERS

- Resource Conservation District of the Santa Monica Mountains
- Pacoima Beautiful
- Fernandeños Tataviam Band of Mission Indians
- Gabrieliños/Tonga Band of Mission Indians
- Anahuak
- From Lot to Spot
- East Yard Communities for Environmental Justice
- Friends of the LA River
- Las Fotos Project
- Weaving the River



UPCOMING COMMUNITY PARTNER EVENTS

- Resource Conservation District Clean Up Day at Sepulveda Basin April 13, 2019
- Native Voices Symposium June 1, 2019
- Pacoima Beautiful Summer Institute and Community Event July 1, 2019
- SELA Arts Fest (Exhibitors) July 27, 2019
- Tabling Events and Pop-ups

ENGAGEMENT UPDATE





Join the Resource Conservation District (RCD) of the Santa Monica Mountains in their efforts to keep the waterways safe for wildlife.

This event is made possible by our partnership with the L.A. River Master Plan effort.



The County of Los Angeles is updating its L.A. River Master Plan. It is a comprehensive approach covering all 51 miles of the River. The effort was launched to update the original 1996 master plan, synthesizing more recent ideas for portions of the River and bringing a comprehensive vision to the transformation of the LA River. To do this, LA County is partnering with community organizations throughout the region to incorporate your needs, concerns, hopes, and the vision for the entire Los Angeles River.

Free April 13, 2019 Free Event! 8:30am - 1:00pm

Sepulveda Basin Wildlife Reserve 6100 Woodley Ave., Van Nuys, CA 91406

Creek Clean-Up | 8:30am - 12:00pm

Start the day helping the San Fernando Valley Audubon by cleaning up Haskell Creek, where it runs through the Sepulveda Basin Wildlife Reserve.

Older children welcome but must be accompanied by adult.

Community Event | 10:30am - 1:00pm

Lots of hands-on experiences!

—All ages welcome!—

Join RCD Educators to learn more about the L.A. River and Sepulveda Basin.

- Take a guided hike to the dam
- Check out live plankton in microscopes
- Use binoculars to view the birds
- Test the water quality of the lake
- Visit booths to learn more about enjoying the L.A. River



Meet at the amphitheater. Stay right of the Japanese Garden and continue all the way to the end of Wildlife Way.

Wear sturdy shoes! Please come ready to get muddy and possibly wet during clean-up!

RSVP or questions: rcdsmm.edu@gmail.com

ENGAGEMENT UPDATE



Panelists



Julia Bogany Cultural Affairs Gabrieleno Tongva Band of Mission Indians



Pamela Villasenor Executive Advisor, Fernandeno Tataviam Band of Mission Indians



Desiree Renee Martinez Tongva (Gabrielino)

Moderator



Joseph A. Quintana Development Director. United American Indian Involvement



Jorge "Boch" Boche Head Dancer Kalpulli Teotlalli Tepeyollotl Instructor of Pre-Cuauhtemoc (Mesoamerica) indigenous cultures



Commissioner, LA City/ County Native American

The County of Los Angeles is updating its LA River Master Plan. It is a comprehensive approach covering all 51 miles of the River. The effort was launched to update the original 1996 master plan, synthesizing more recent ideas for portions of the River and bringing a comprehensive vision to the transformation of the LA River. To do this, LA County is partnering with community organizations throughout the region to incorporate your needs, concerns, hopes, and the vision for the entire Los Angeles River.

The LA River Master Plan recognizes and acknowledges the first people of this ancestral and unceded territory that the river runs through. With respect to their elders, past and present, we recognize that the Gabrieleño Tongva, Fernandeño Tataviam and Ventureño Chumash who are still here and are committed to lifting up their stories and culture.





The Autry Museum 4700 Western Heritage Way Los Angeles, CA 90027

Saturday, June 1, 2019 11 am to 2 pm RVSP: http:goo.gl/xSuACF







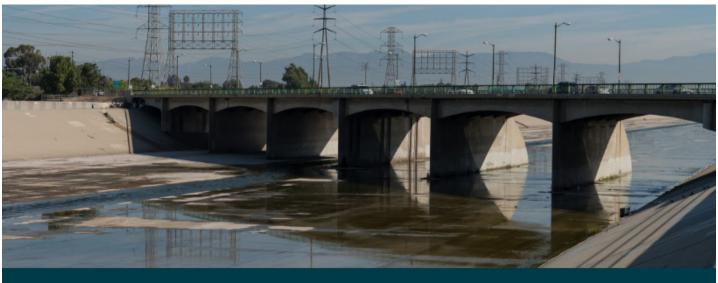






LA RIVER MASTER PLAN COMMUNITY MEETING

COMPTON



JOIN US FOR A MEETING WHERE YOU'LL:

- Share your thoughts on the future of the LA River
- Hear the vision of the LA River Master Plan
- Receive updates on river-related issues

Date: Wednesday, April 24, 2019

Time: 6 - 8 pm

Location: East Rancho Dominguez Park

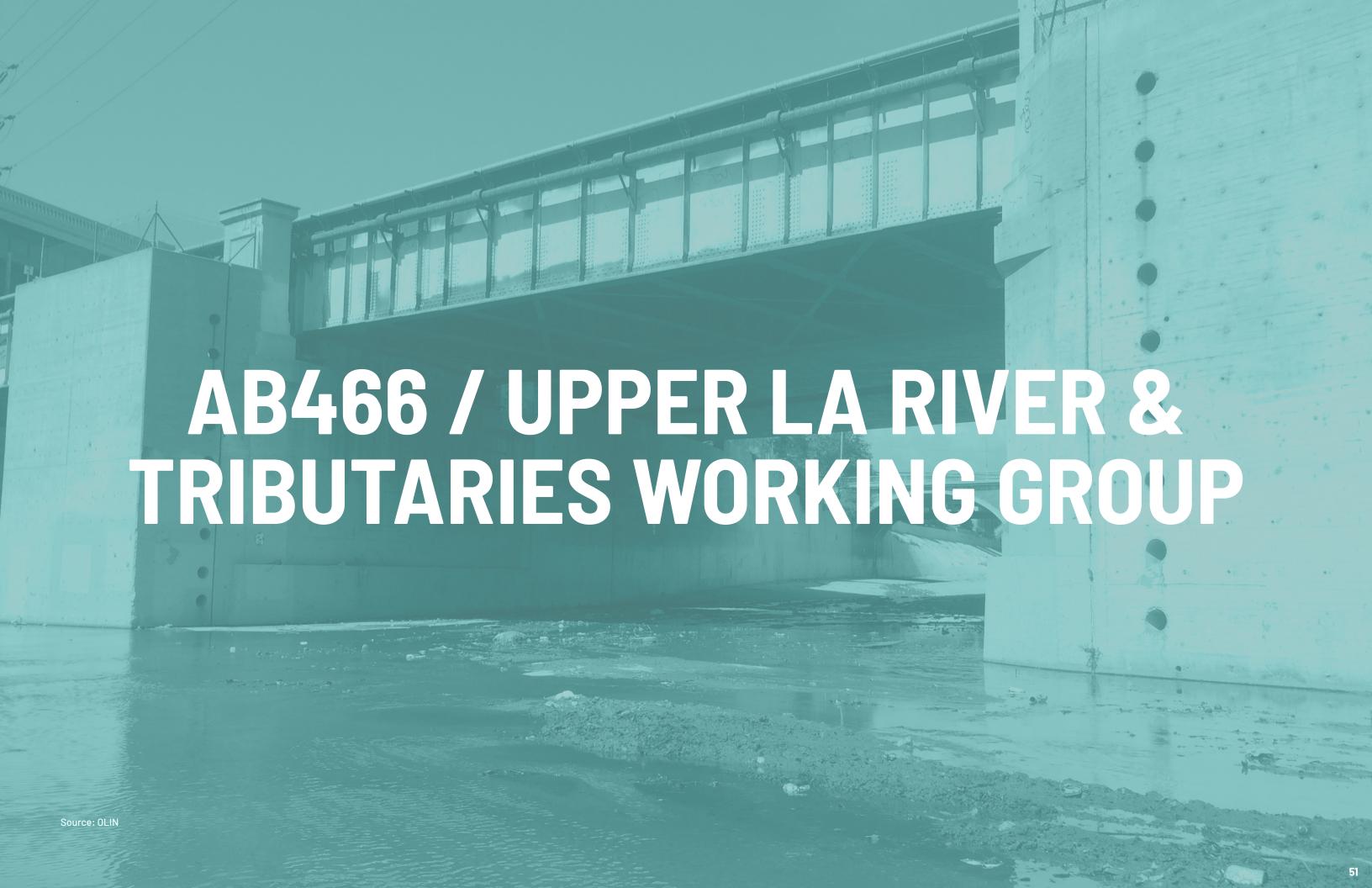
15116 S. Atlantic Ave. Compton, CA 90221

This event is free and open to the public. Refreshments will be provided.

For information, visit LARiverMasterPlan.Org for email updates and event recaps.

LARiverMasterplan.org







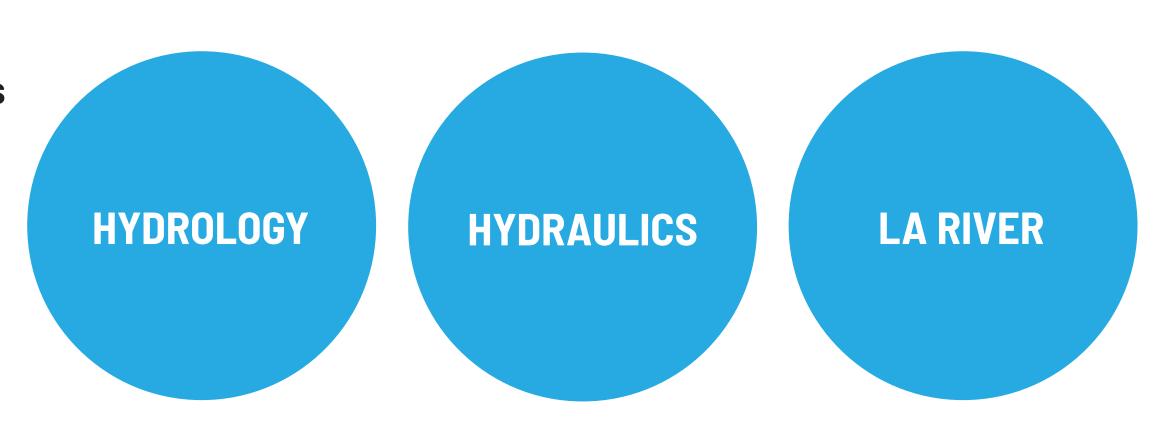


SPECIAL SUBCOMMITTEE WORKSHOP ON HYDROLOGY + HYDRAULICS

March 20, 2018

Los Angeles River Center and Gardens

Thank you Rivers and Mountains Conservancy



WELCOME

CONTEXT - RECENT STORM (FEB 2, 2019)

ABC News 7, Rain Swollen Los Angeles River Roars in Glendale:

https://abc7.com/weather/video-rain-swollen-los-angeles-river-roars-in-glendale/5118212/

IDEAS TO...

REDUCE FLOWS TO THE CHANNEL

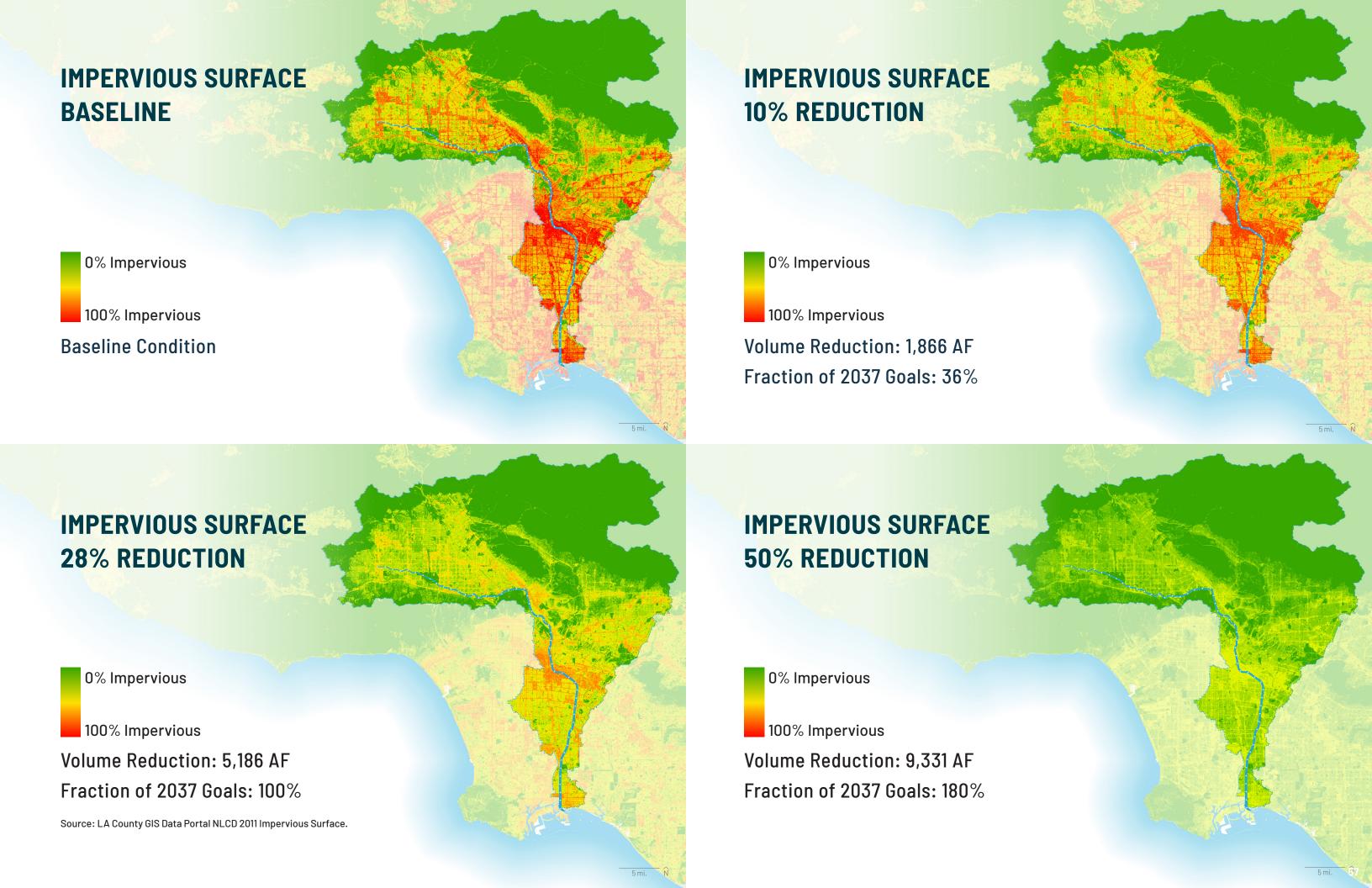
- Low Impact Development
- Best Management Practices
- Distributed Storage
- Increase Sepulveda and Hansen Flood

Control Basins

Additional Flood Control Basins

INCREASE CHANNEL CAPACITY

- Increase Channel Width
- Increase Levee Height
- Bypass Tunnel
- Sediment Removal/Vegetation Conversion
- Concrete



HYDROLOGIC MODELING WITH VARYING LEVELS OF LID Glendale Narrows (River Mile 29) Hydrograph: Glendale Narrows, River Mile 29 120,000 100,000 Discharge (Cubic Feet Per Second) 80,000 78,000 cfs Design Capacity (51-year return period)* 60,000 Baseline Imperviousness 40,000

20,000

0

10% Reduction in Imperviousness

28% Reduction in Imperviousness

50% Reduction in Imperviousness

HEC-HMS

12

24

Time (hours)

48

36

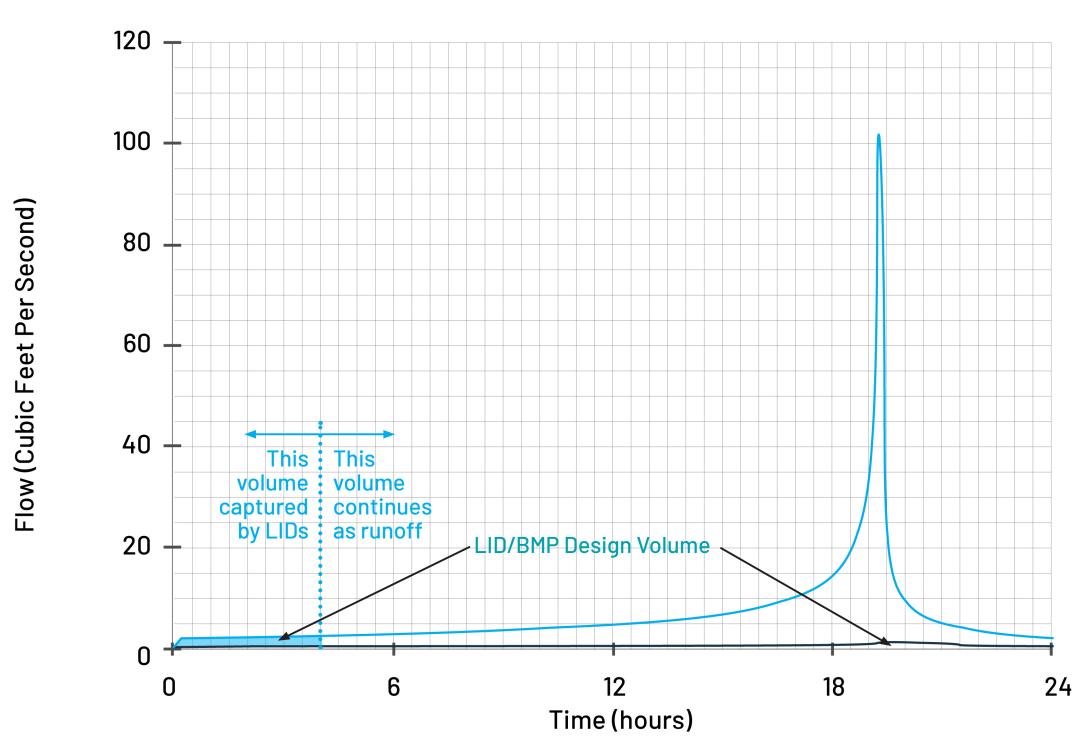
34,700 cfs

Existing Capacity

(4-year return period)*

^{*} flow rates and return periods from Table 17 of HH Appendix E (USACE, 2015)

HYDROLOGIC MODELING



Hydrograph: Sub Area 1

- E.g. 40 acre parcel
- LIDs/BMP "filled up" within first
 4 hours of a storm
- Significant benefit to water quality and water conversation
- Provides urban green space
- Minimal ability to impact peak flow rate
- Minimal impact to reducing stormwater volume in channel during large storm events.

100-Year Storm

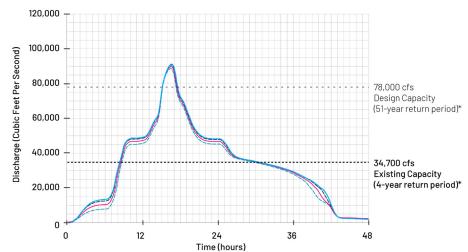
85th Percentile Storm LID Design Requirement

Source: http://dpw.lacounty.gov/wrd/publication/Engineering/hydrology/HydroCalc.zip and the control of the co

ALTERNATIVES STUDIED

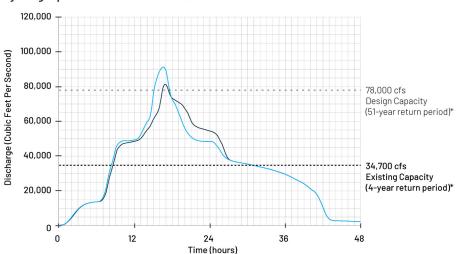
NARROWS 100-YEAR STORM





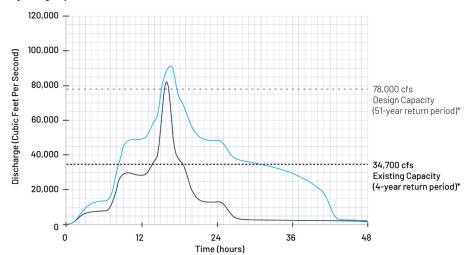
NARROWS 100-YEAR STORM WITH EXTRA BASINS

Hydrograph: Glendale Narrows, River Mile 29



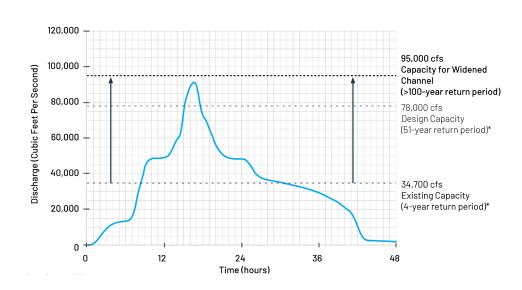
NARROWS 100-YEAR STORM WITH LARGER BASINS

Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH A WIDER CHANNEL

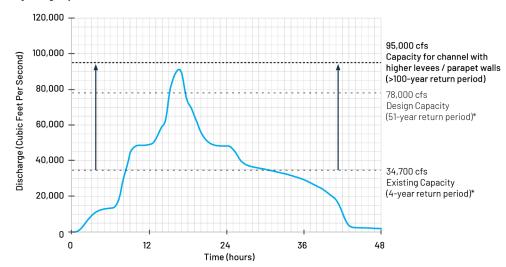
Hydrograph: Glendale Narrows, River Mile 29



ALTERNATIVES STUDIED

100-YEAR STORM WITH HIGHER LEVEES / PARAPET WALLS

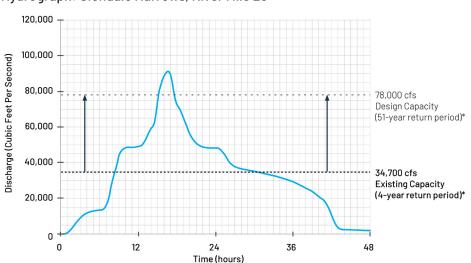
Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH REFURBISHMENT

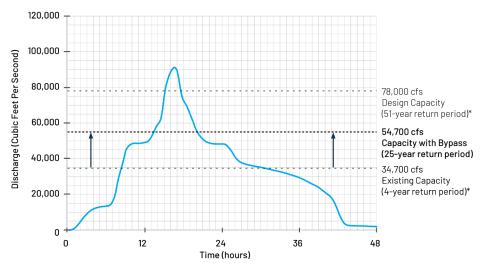
To increase channel capacity: remove invasives, remove sediment, maintain channel, replace exotic with native grasses.

Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH BYPASS TUNNEL

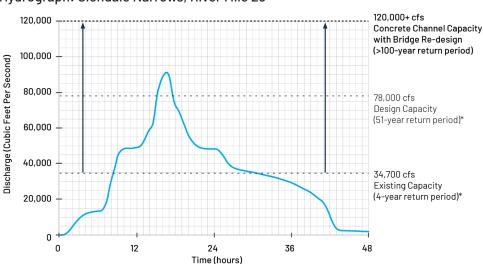
Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH CONCRETE BOTTOM

To increase channel capacity: Harden the channel bottom to reduce friction.

Hydrograph: Glendale Narrows, River Mile 29



HOW THE IDEAS RELATE TO THE GOALS

REDUCE FLOWS TO THE CHANNEL

•	Low Impact	Development	[3, 8, 9]
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- Best Management Practices [3, 8, 9]
- Distributed Storage [8, 9]
- Increase Sepulveda and Hansen Flood

Control Basins [1]

Additional Flood Control Basins [1]

INCREASE CHANNEL CAPACITY

•	Increase	Channel	Width	[1,	2, 3	3]	
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- Increase Levee Height [1]
- Bypass Tunnel [1, 2, 3, 8]
- Sediment Removal/

Vegetation Conversion [1, 2, 3, 9]

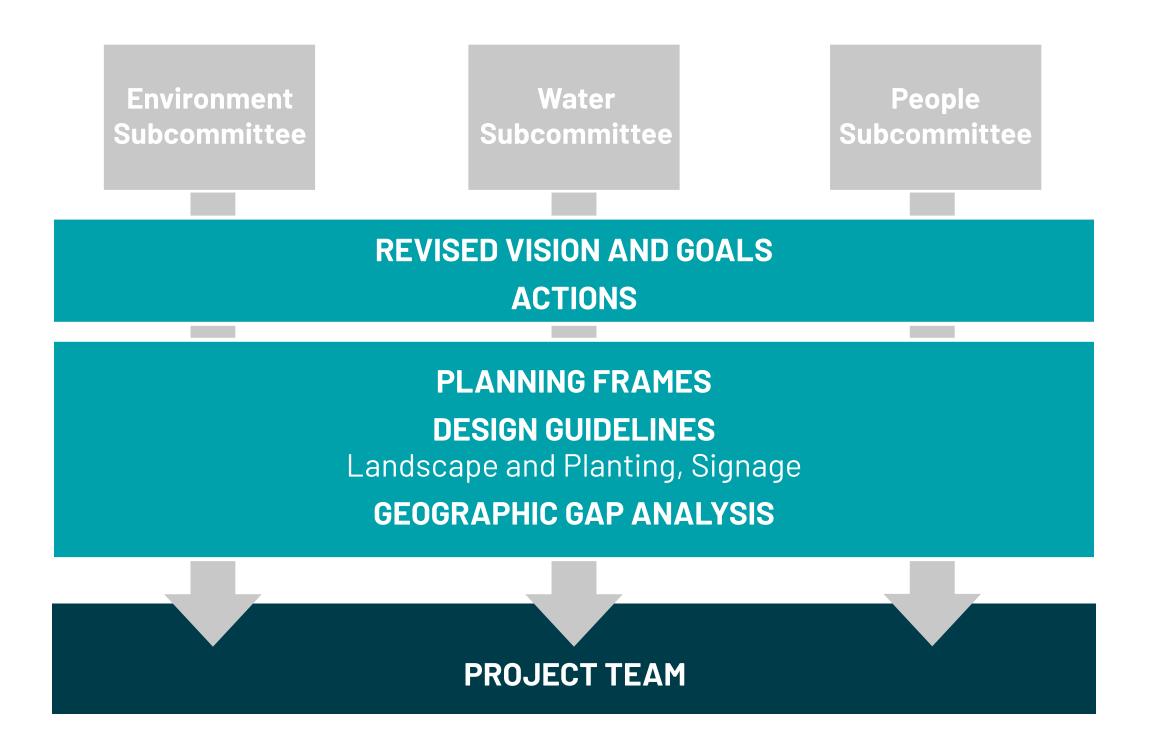
• Concrete [1]

SUBCOMMITTEE MEETINGS #4

December 17, 2018

Los Angeles River Center and Gardens

Thank you Rivers and Mountains Conservancy







WHAT'S IN THE PLAN

ANALYSIS & INPUT

- Existing Conditions
- Community Engagement

RECOMMENDATIONS

- Goals
- Design Framework

IMPLEMENTATION

- Operations & Maintenance
- Funding

INTRODUCTION

- Building on other plans
- Watershed and community approach to a corridor plan
- Resiliency
- Governance & multi-jurisdictional collaboration

WELCOME

THE ROLE OF THE COUNTY AND COORDINATION

Similar to the 1996 LA River Master Plan, the 2020 Plan will be used to guide LA County decision making for LA River projects and facilities owned, operated, funded, and/or maintained by the County. Other agencies and municipalities are encouraged to adopt the LA River Master Plan for their jurisdictions and communities and partner with LA County in making the Reimagined River a reality.

WELCOME

VISION

The Reimagined River

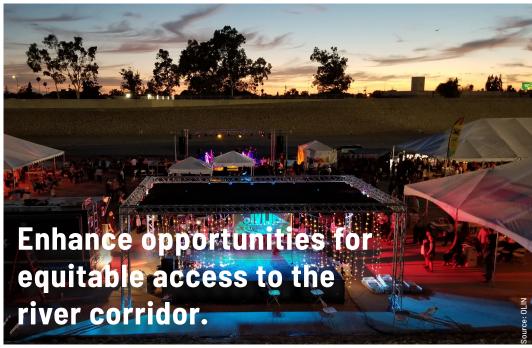
Fifty-one miles of connected open space that includes clean water, native habitat, parks, multiuse trails, art, and cultural resources to improve health, equity, access, mobility, and economic opportunity for the diverse communities of LA County, while providing flood risk management.

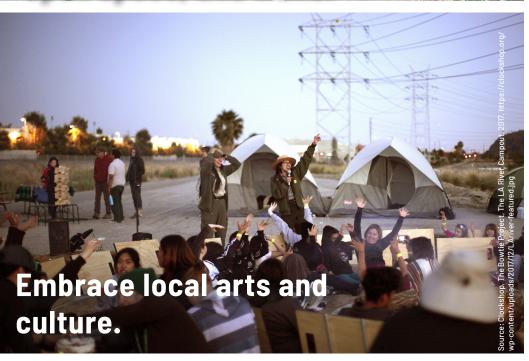






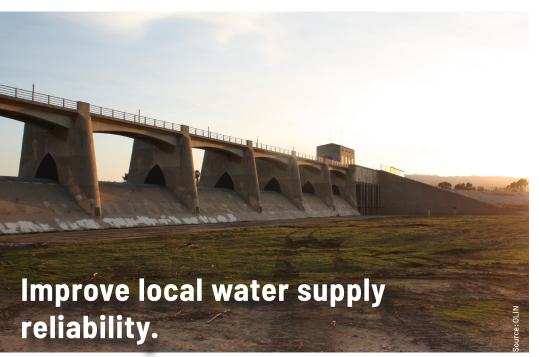


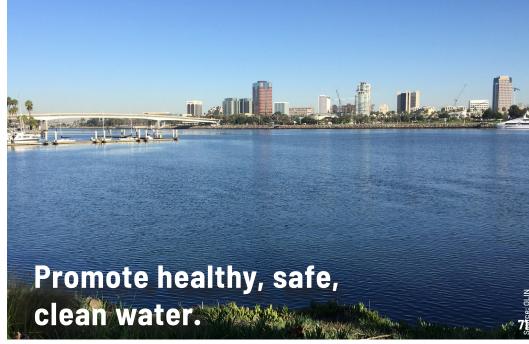








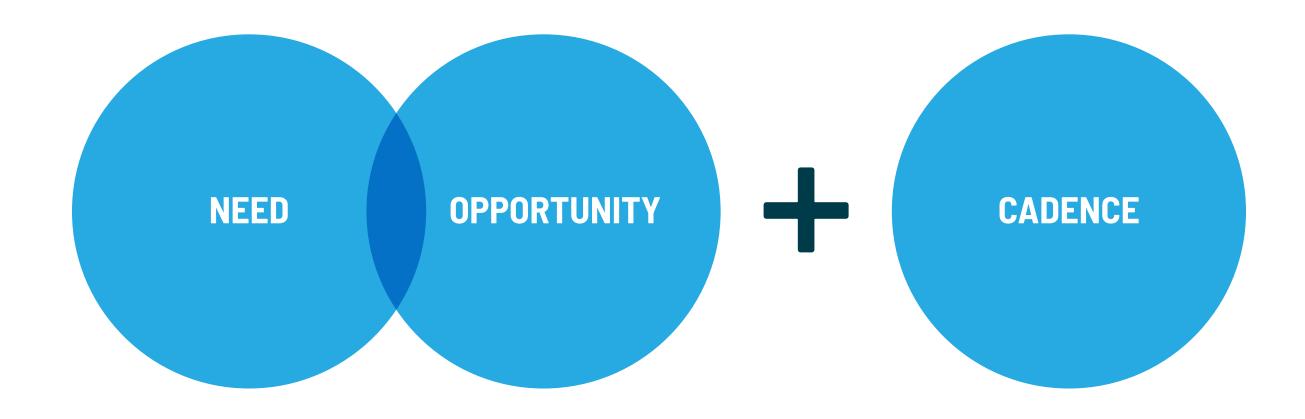






HOW DO WE LOCATE NEW PROJECTS?

Align need, opportunity, and cadence along the LA River corridor considering existing and planned projects.



GOAL-BASED NEEDS CRITERIA

1. FLOOD RISK MANAGEMENT

Level of Channel Protection
Flood Plains
Critical Infrastructure & Facilities

2. PARKS

Parks Needs Assessment CalEnviroScreen 3.0

3. ECOSYSTEM

Existing Vegetation
Unprotected Areas
Protected Areas Buffer
Habitat Linkages

4. ACCESS

River Trail Access Points
River Trail Gaps
Adjacent Trail Gaps
Health Composite
Proximity to Metro Stops, Parks, & Schools

5. ARTS & CULTURE

Arts & Culture Asset Mapping Population Density Household Income

6. HOUSING AFFORDABILITY

Displacement Risk

7. ENGAGEMENT & EDUCATION

Education Asset Mapping Population Density

8. WATER SUPPLY

Regional Need

9. WATER QUALITY

EWMP/WMP Score Water Quality Priority

WELCOME

PROPOSED EXTRA LARGE PARKS (XL)

Draft Example from December 2018 BURBANK XL Parks GLENDALE + High Park Need Sherman Canoga Park 51 Oaks Studio Canoga Park? Reseda 47 LOS ANGELES Sepulveda Van Nuys 44 Downtown Sherman Oaks 41 Studio City 37 VERNON Burbank 33 Headworks Glendale 31 Taylor Yard (G2) High Park Need Cornfields Downtown LA 22 XL Parks Existing Vernon 18 XL Parks In-development Bell Gardens 14 ONG BEACH South Gate 12 Rio Hondo Confluence XL Parks Proposed Compton 9 Long Beach 0

Source: Geosyntec, OLIN

NEEDS ANALYSIS Source: OLIN

EXAMPLE: GOAL RATIONALE

Goal: Provide equitable, inclusive, and safe parks, open space, and trails.

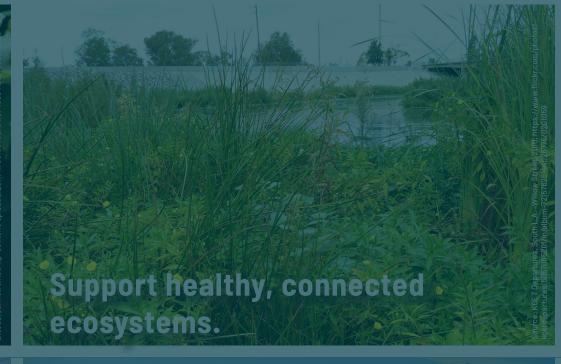
COMMUNITY INPUT In community meetings and surveys, the top two activities that people indicated they participate in along the river are walking and bicycling—with combined participation greater than all other activities combined. Yet, the top reason people do not use the river is due to safety concerns, identified by 61% of participants.

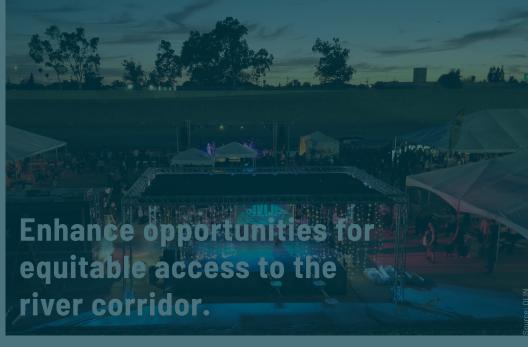
ANALYSIS

This is apparent when looking at available parks and trails. Many cities along the LA River do not meet the World Health Organization's minimum standards of 2.2 acres of parks per thousand people, and only 31 of the river's 51 miles have trails.







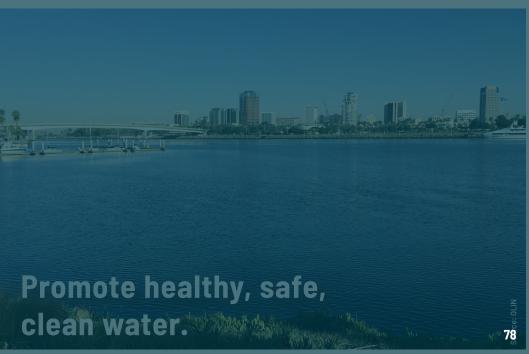














Department of Transportation, California Rail Network, 2013 & EPA, FRS Geospatial Data, 2018 & State of California Energy Commission, California Electric Transmission Line, 2018 &

California Department of Conservation, All Wells, 2018. Only facilities inside 100- and 500-yr floodplains included in needs scoring.

5 mi.

FLOOD RISK MANAGEMENT

Level of Channel Protection^{1,2,3} (45%) Flood Plains⁴ (45%) Critical Infrastructure and Facilities (10%)

Need Analysis:

Highest Need

Lowest Need

Footnotes:

1. Level of channel protection from DS Sepulveda to top of ARBOR Study reaches interpolated from point locations within U.S. Army Corps of Engineers (USACE): Los Angeles District. 1991. Los Angeles County Drainage Area: Review, Part I Hydrology Technical Report: Base Conditions. Plate 4: Levels of Protection Base Conditions.

2. Level of channel protection within ARBOR Study reaches from USACE: Los Angeles District. 2015. Los Angeles River Ecosystem Restoration Integrated Feasibility Report, Final Feasibility Report and Environmental Impact Statement/Environmental Impact Report, Appendix E. Table 17: Original Design Discharge and Existing Channel Capacity. 3. Level of channel protection from bottom of ARBOR Study reaches to Pacific Ocean interpolated from point locations within USACE: Los Angeles District. 1991. Los Angeles County

Drainage Area: Review, Part II Hydrology Report, Project Alternatives. Plate 11: NED Plan Levels of Protection.

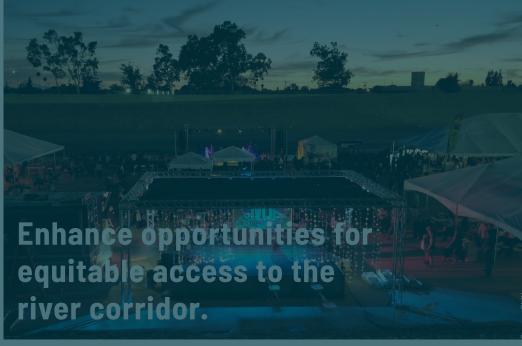
4. 100-year flood plain for ARBOR Study area from USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2016, remaining 100- and 500-yr flood plains from Los Angeles County GIS Data Portal, Flood Zones; The Flood Insurance Study (FIS) for Los Angeles County was issued by FEMA in 2008 and revised in 2016. 5. Critical Infrastructure and Facilities from Los Angeles County GIS Data Portal, Points of Interest, 2016 & Los Angeles County GIS Data Portal, Disaster Routes, 1998 & California Department of Transportation, California Rail Network, 2013 & EPA, FRS Geospatial Data, 2018 & State of California Energy Commission, California Electric Transmission Line, 2018 & California Department of Conservation, All Wells, 2018. Only facilities inside 100- and 500-yr floodplains included in needs scoring.

BURBANK GLENDALE LOS ANGELES LONG BEACH





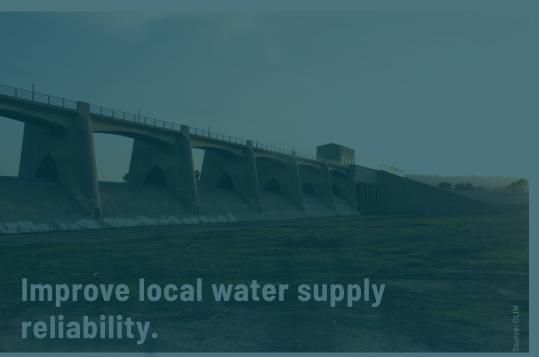


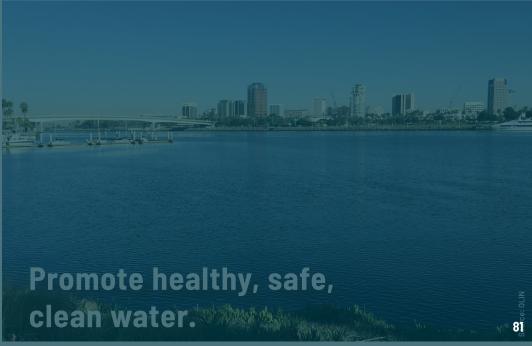






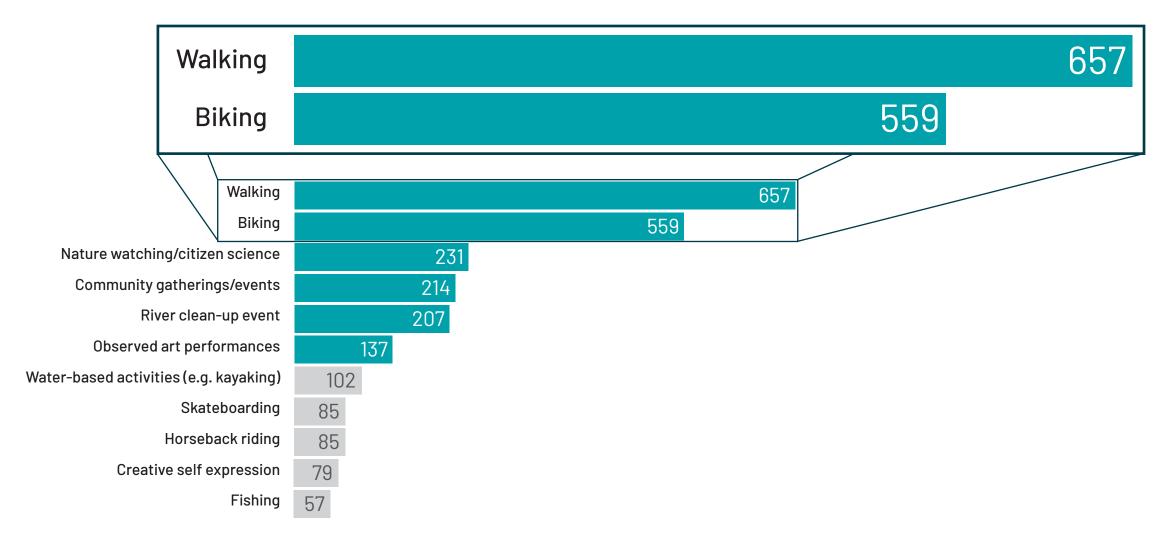






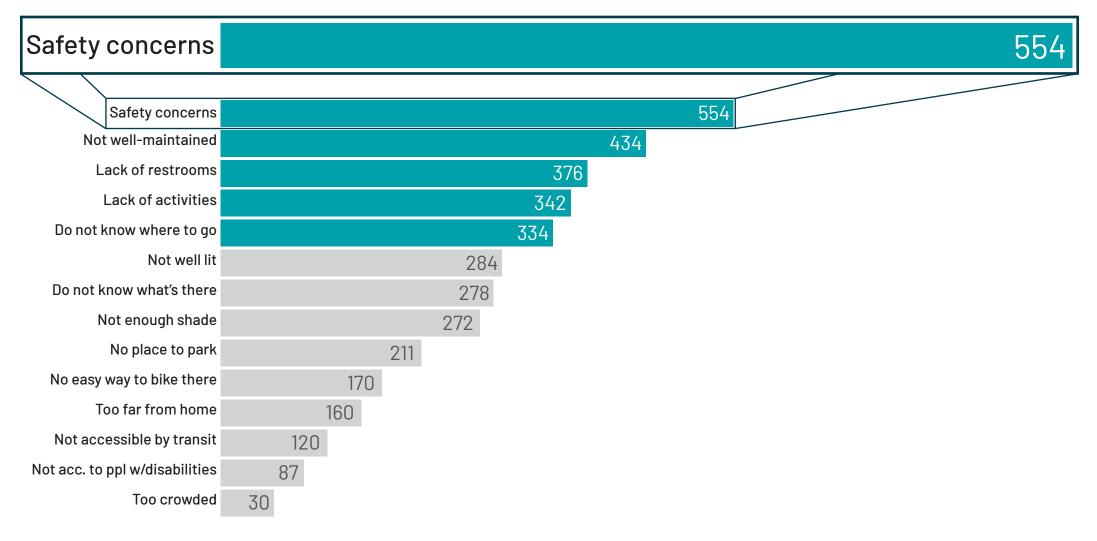
THE TOP TWO ACTIVITES ALONG THE RIVER ARE WALKING AND BICYCLING

Goal: Provide equitable, inclusive, and safe parks, open space, and trails.



THE TOP REASON PEOPLE DO NOT VISIT THE RIVER IS DUE TO SAFETY CONCERNS

Goal: Provide equitable, inclusive, and safe parks, open space, and trails.



PARK NEED

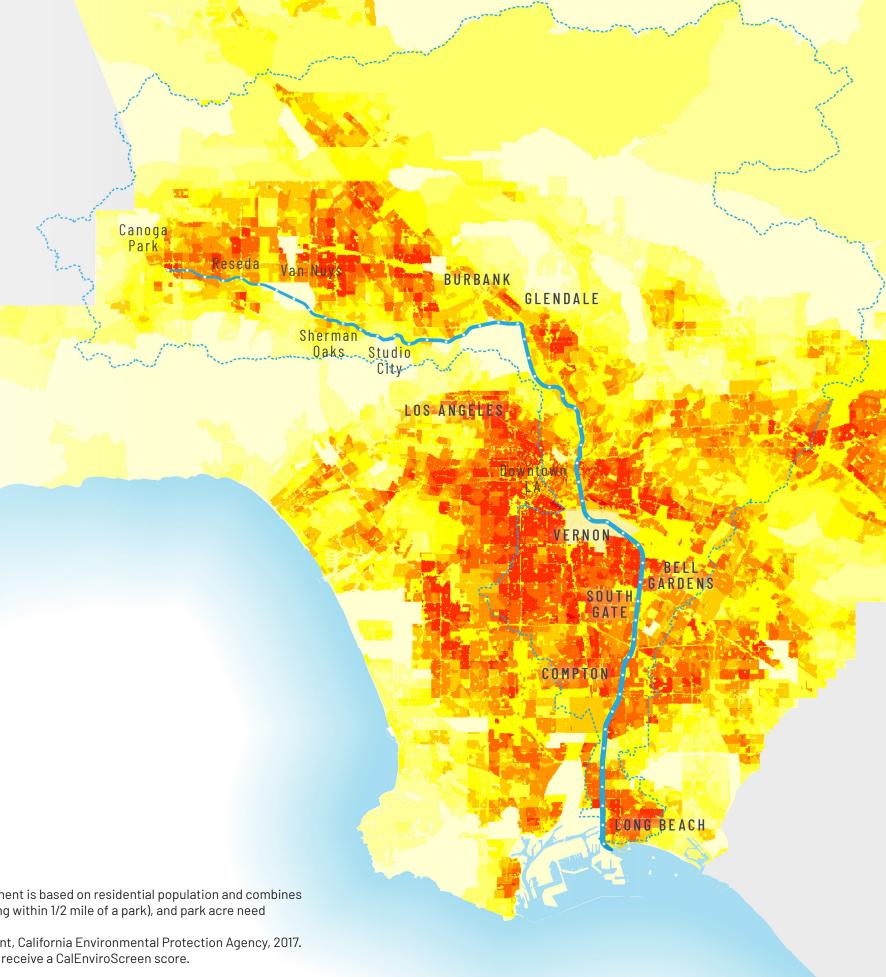
Parks Needs Assessment¹ (50%) CalEnviroScreen 3.02 (50%)

Need Analysis: **Highest Need**

Lowest Need

1. Park need from Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016. Assessment is based on residential population and combines park pressure (amount of park land available to residents around each park), park access (percent of population living within 1/2 mile of a park), and park acre need (acres of park per 1,000 people).

2. Exposure to environmental pollution from CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017. CalEnviroScreen combines pollution burden indicators with population indicators. Areas with low population do not receive a CalEnviroScreen score.

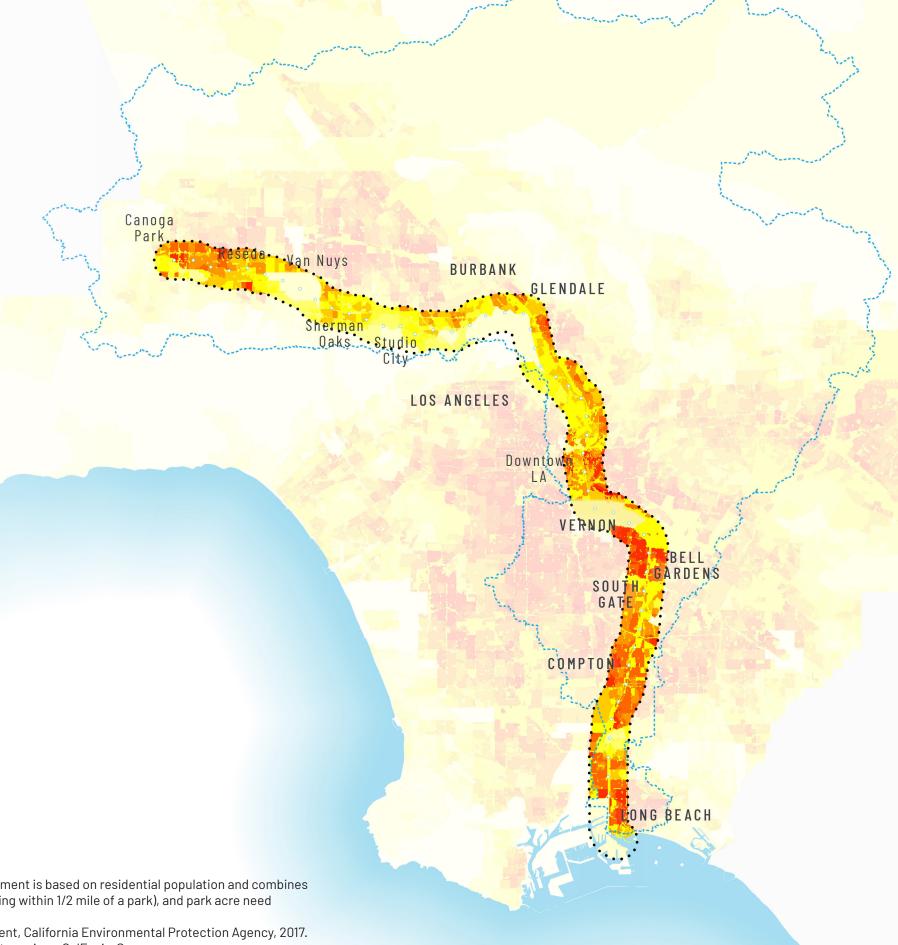


PARK NEED

Parks Needs Assessment¹ (50%) CalEnviroScreen 3.02 (50%)



^{2.} Exposure to environmental pollution from CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017. CalEnviroScreen combines pollution burden indicators with population indicators. Areas with low population do not receive a CalEnviroScreen score.

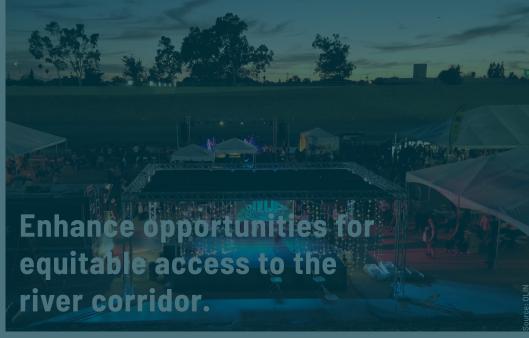


^{1.} Park need from Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016. Assessment is based on residential population and combines park pressure (amount of park land available to residents around each park), park access (percent of population living within 1/2 mile of a park), and park acre need (acres of park per 1,000 people).













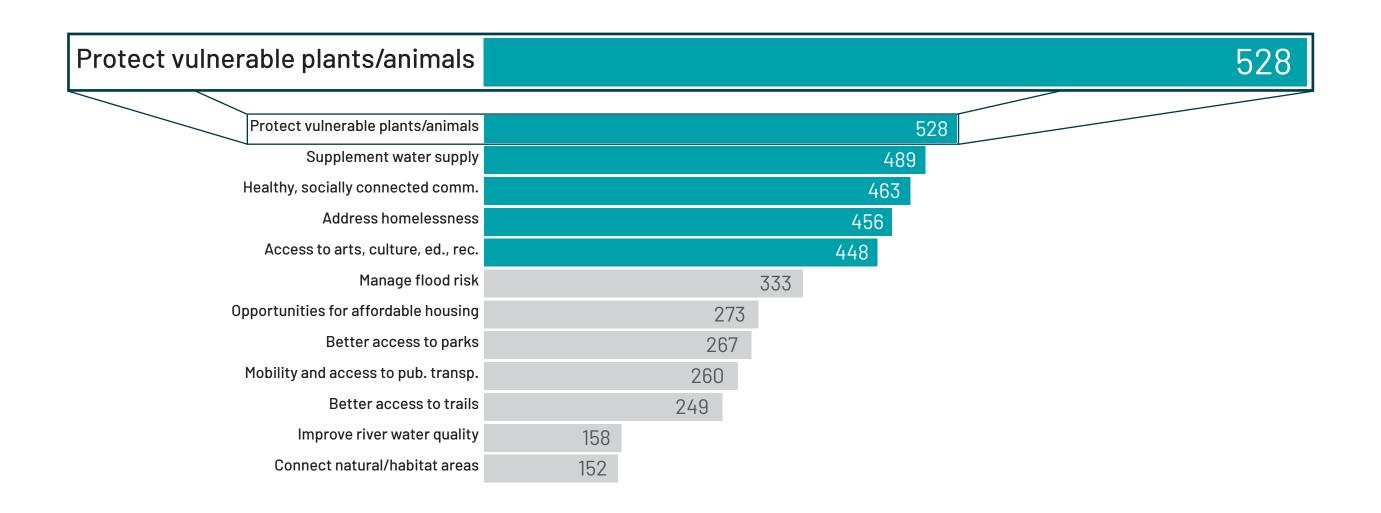






PROTECTING VULNERABLE PLANTS AND ANIMALS IS THE MOST IMPORTANT ISSUE TO THE COMMUNITY

Goal: Support healthy, connected ecosystems.



ECOSYSTEMS

Existing Vegetation¹ (37.5%)
Protected Habitat Area Buffer² (20%)
Unprotected Areas³ (12.5%)
Linkages⁴ (30%)

Need Analysis:

Highest Need

Lowest Need

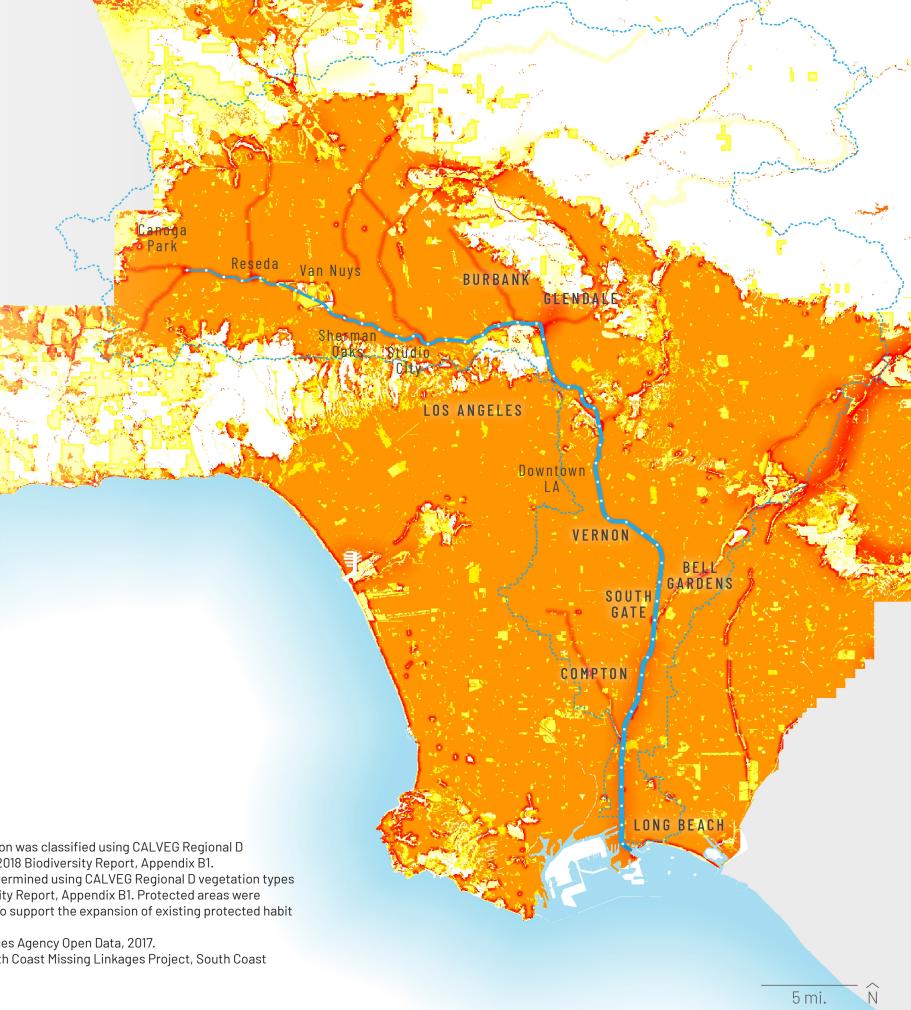
Footnotes:

1. Existing vegetation from USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Vegetation was classified using CALVEG Regional D vegetation types to determine natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1.

2. Protected habit areas were determined by intersecting habit areas with protected areas. Habit areas were determined using CALVEG Regional D vegetation types categorized into natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1. Protected areas were extracted from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017. To support the expansion of existing protected habit areas, an increased need value was assigned within a 1000 foot buffer of the protected habit areas.

3. Unprotected areas were determined from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017.

4. Linkages were identified to support existing and potential wildlife corridors. Linkage features come from South Coast Missing Linkages Project, South Coast Wildlands, 2008; & LA River Tributaries, Geosyntec, 2016.



ECOSYSTEMS

Existing Vegetation¹ (37.5%)
Protected Habitat Area Buffer² (20%)
Unprotected Areas³ (12.5%)
Linkages⁴ (30%)

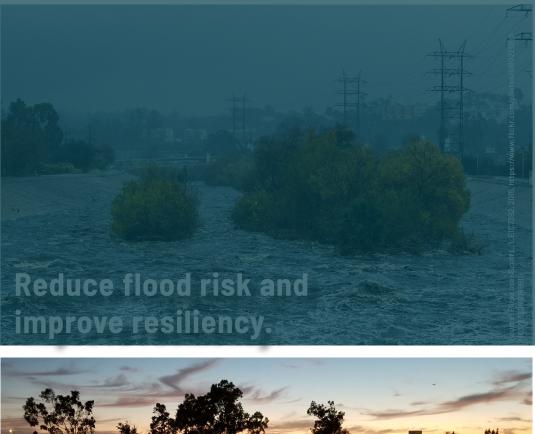
Need Analysis: Highest Need

Lowest Need

Footnotes:

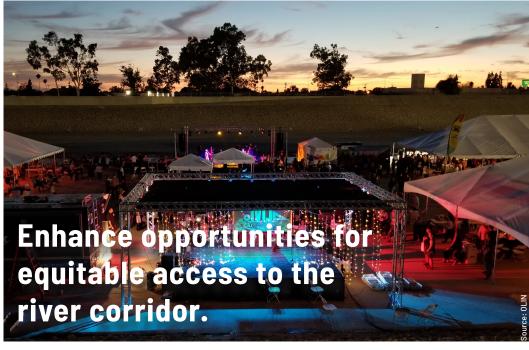
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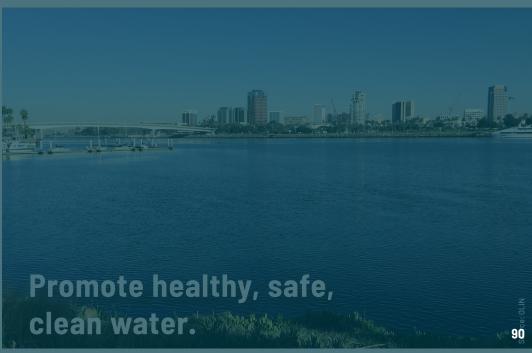






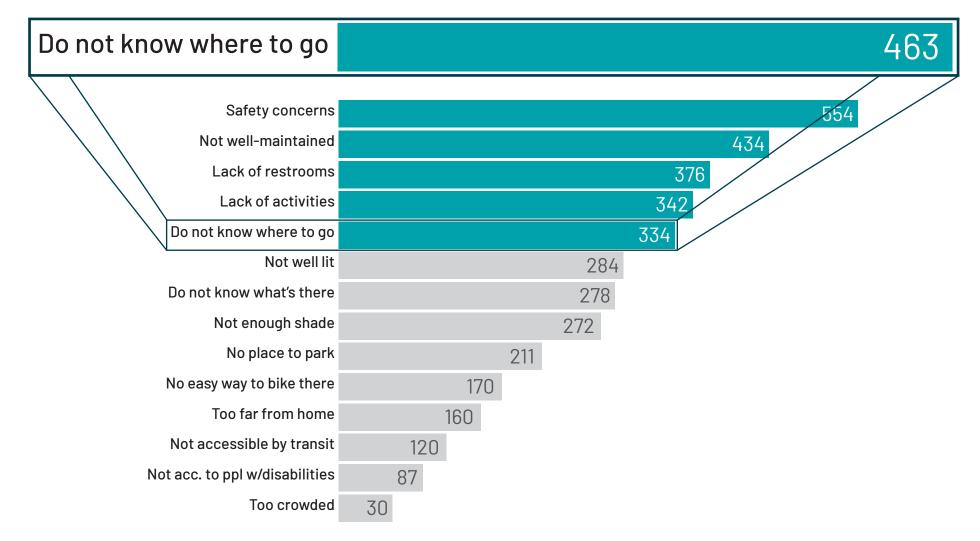






NOT KNOWING WHERE TO GO IS A TOP REASON PEOPLE DON'T VISIT THE RIVER

Goal: Enhance opportunities for equitable access to the river corridor.



ACCESS & TRAILS

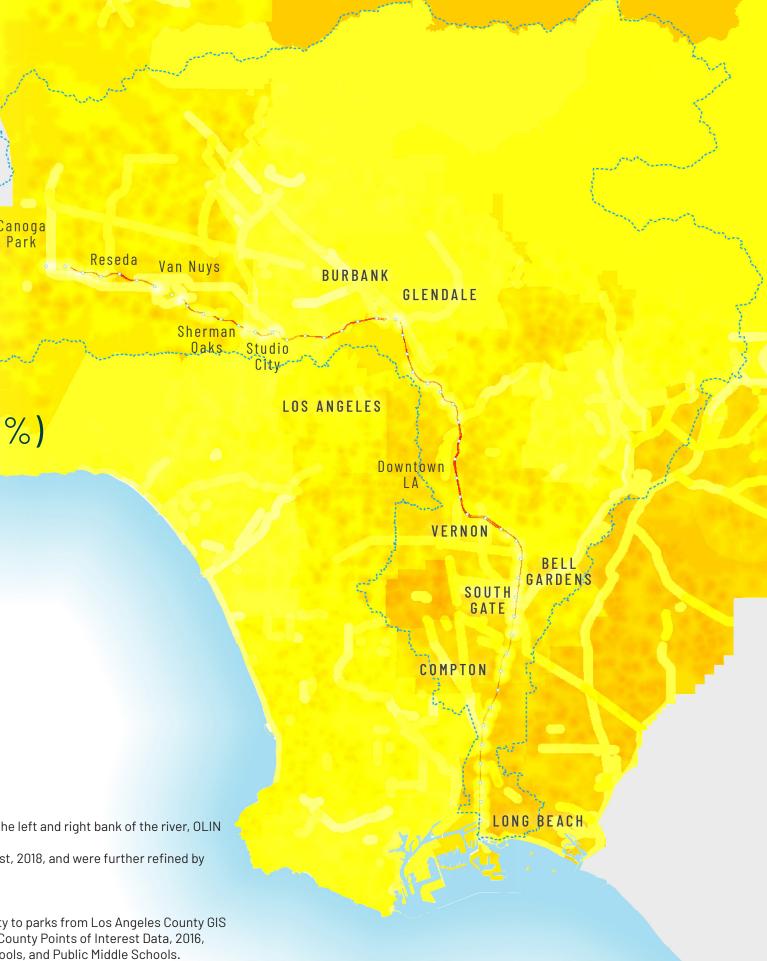
River Trail Gaps¹(30%)
River Trail Access Points²(30%)
Adjacent Trails³(20%)
Health Composite⁴(10%)
Proximity to Metro Stops, Parks, and Schools⁵(10%)

Need Analysis:
Highest Need

Lowest Need

Footnotes:

- 1. River trail gaps were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018. On both the left and right bank of the river, OLIN identified gaps between existing and proposed trail segments.
- 2. Existing river trail access points were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018, and were further refined by OLIN using aerial and Google Street View observations.
- 3. Adjacent existing and proposed trails from Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2015.
- 4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
- 5. A half-mile proximity to stops identified in LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014. A half-mile proximity to parks from Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2016. A half-mile proximity to schools from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Colleges and Universities, Early, Private and Charter Schools, Public Elementary Schools, Public High Schools, and Public Middle Schools.



ACCESS & TRAILS

River Trail Gaps¹ (30%)
River Trail Access Points² (30%)
Adjacent Trails³ (20%)
Health Composite⁴ (10%)

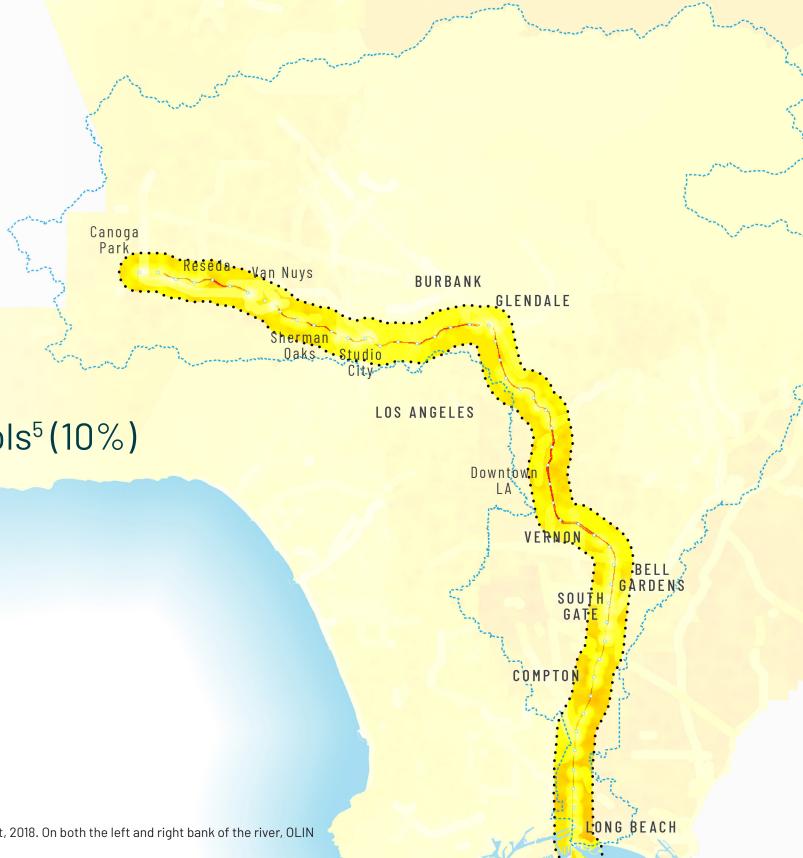
Proximity to Metro Stops, Parks, and Schools⁵ (10%)

Need Analysis: Highest Need

Lowest Need

Footnotes

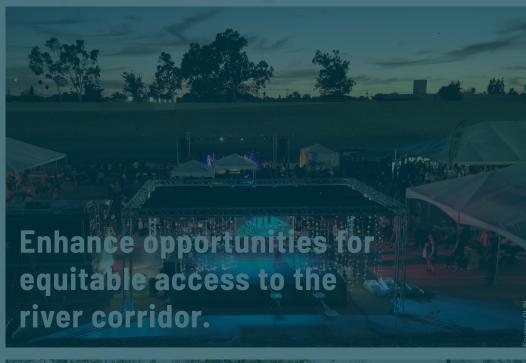
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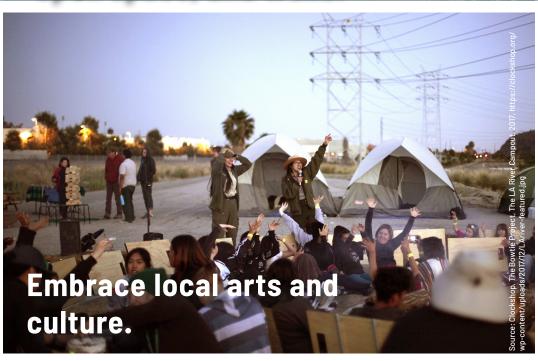








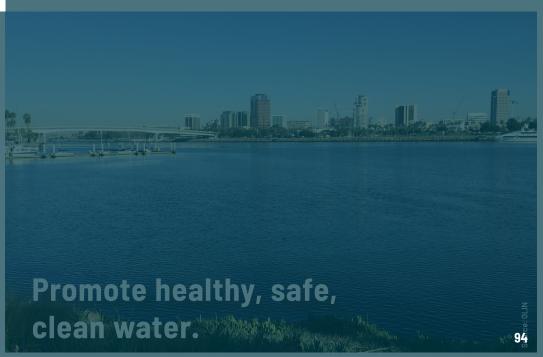






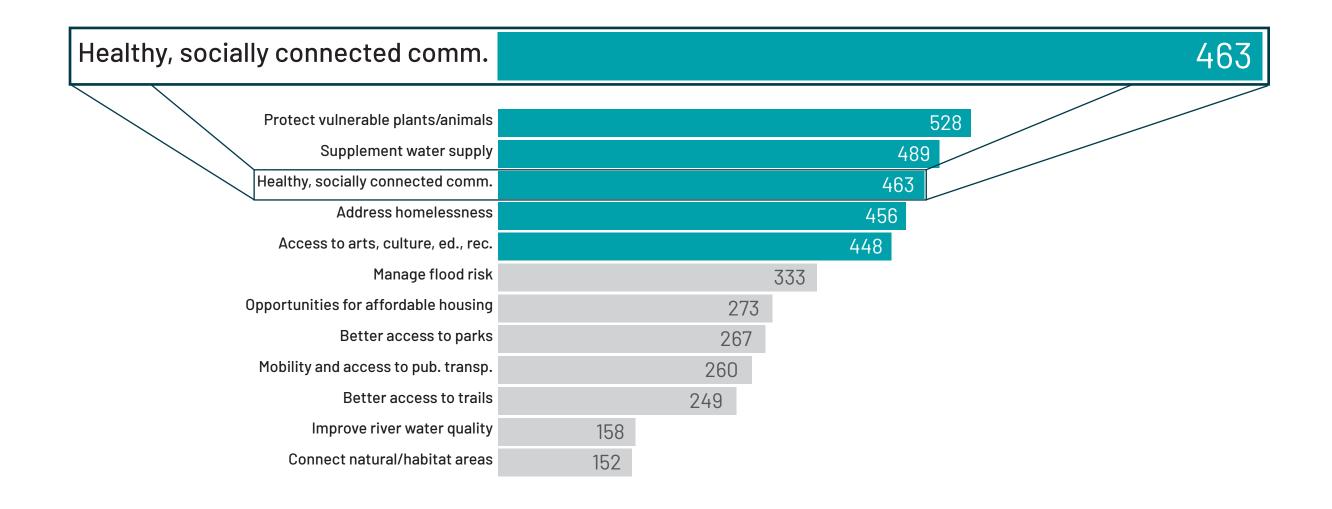






HEALTHY, SOCIALLY CONNECTED COMMUNITIES ARE A TOP PRIORITY TO THE COMMUNITY

Goal: Embrace local arts, culture, and communities.



ARTS & CULTURE

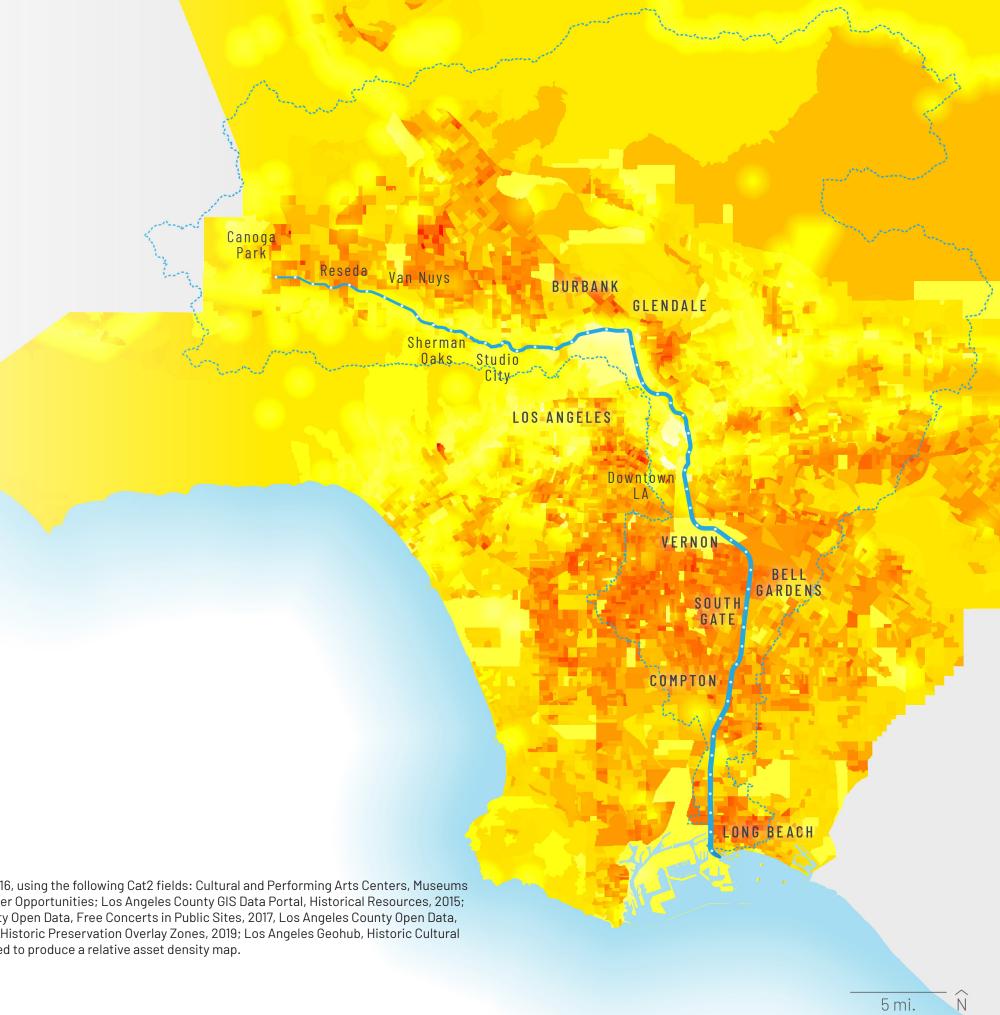
Asset Mapping¹ (33%)
Population Density² (33%)
Household Income² (33%)

Need Analysis: Highest Need Lowest Need

Footpotes:

1. Asset mapping from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Cultural and Performing Arts Centers, Museums and Aquariums, Historical Parks, Churches, Community Organizations, Farmers Markets, Volunteer Opportunities; Los Angeles County GIS Data Portal, Historical Resources, 2015; Los Angeles County Open Data, Los Angeles County Open Data, Los Angeles County Open Data, Free Concerts in Public Sites, 2017, Los Angeles County Open Data, Community Arts Partners, 2012; National Register of Historic Places, 2014; Los Angeles Geohub, Historic Preservation Overlay Zones, 2019; Los Angeles Geohub, Historic Cultural Monuments, 2019; & ArcGIS Online, User USCSSI, Los Angeles Murals, 2018. Assets were combined to produce a relative asset density map.

2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.



ARTS & CULTURE

Asset Mapping¹ (33%)
Population Density² (33%)
Household Income² (33%)

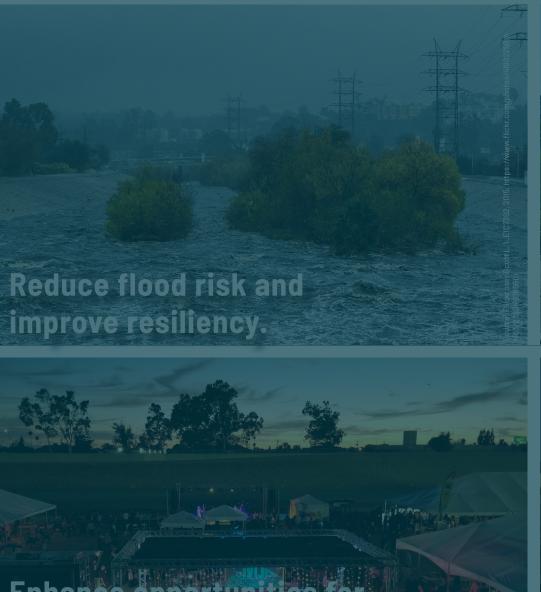


Footpotos:

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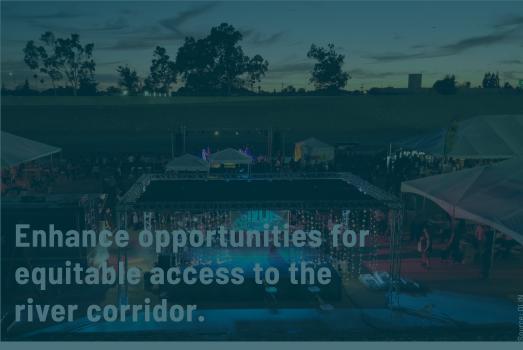
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.





















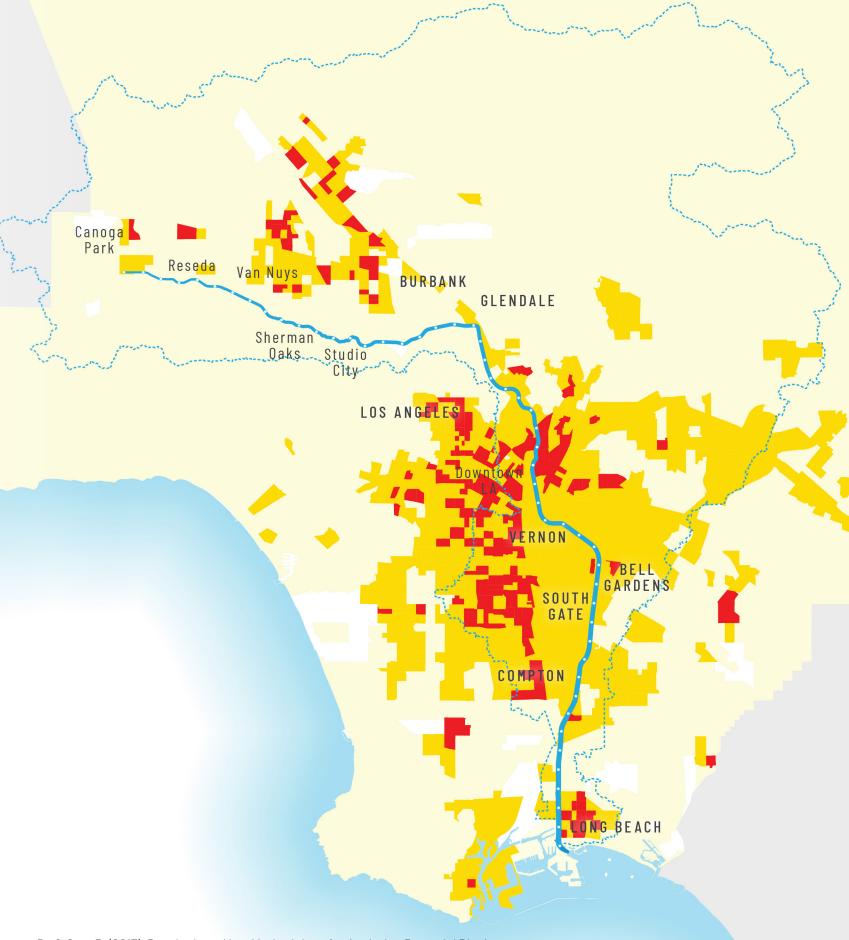
HOUSING AFFORDABILITY

Displacement Index¹ (100%)

Highest needs were assigned to areas at risk of or with on going displacement.²



2. Displacement risk categories were scored from 0 (low need) to 5 (high need) as follows: advanced displacement 1, ongoing displacement 5, at risk of displacement 5, lower risk of displacement 1, & not vulnerable 0.5.



^{1.} Map developed based on research by the Urban Displacement Project: Chapple, K., Loukaitou-Sideris, A., Waddell, P., Chatman, D., & Ong, P. (2017). Developing a New Methodology for Analyzing Potential Displacement.

HOUSING AFFORDABILITY

Displacement Index¹ (100%)

Need Analysis: **Lowest Need**



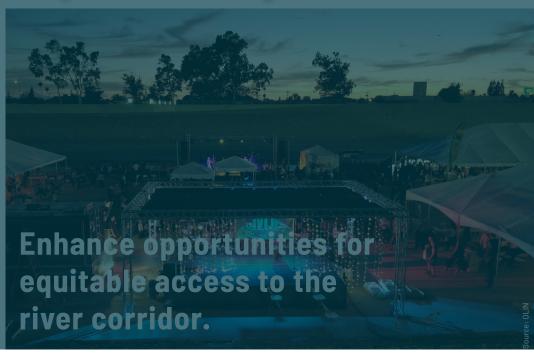
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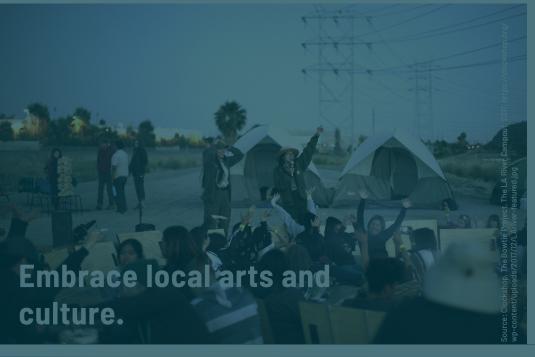
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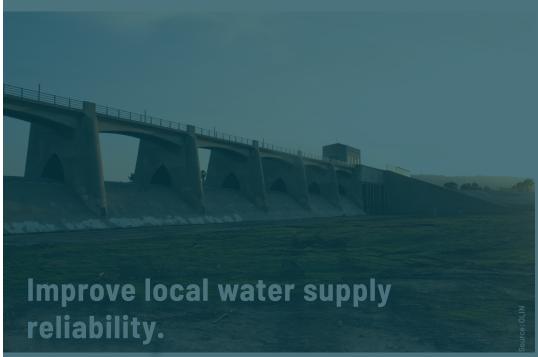


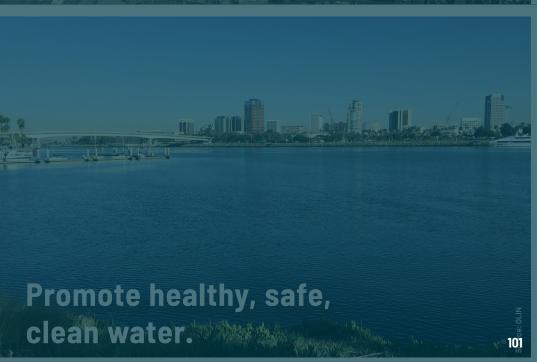








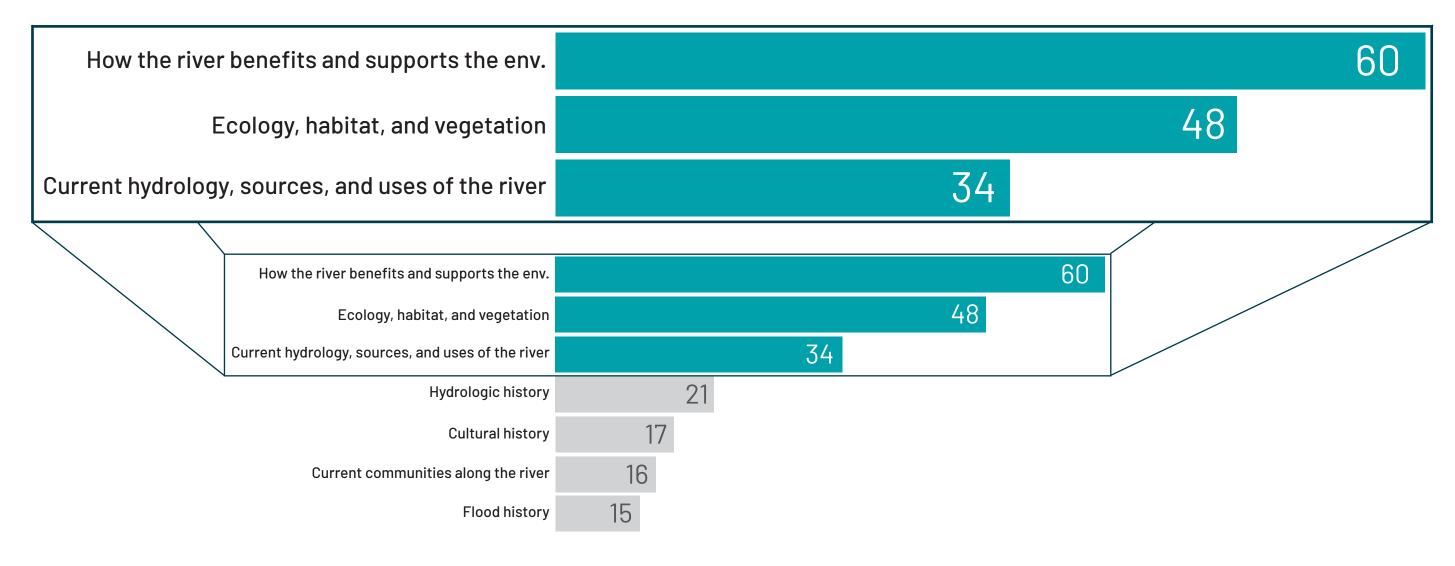




GOAL RATIONALE

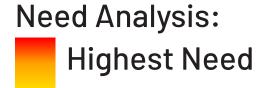
WHAT THE COMMUNITY VALUES AS EDUCATIONAL OPPORTUNITY

Goal: Foster learning and opportunities for education.



ENGAGEMENT & EDUCATION

Asset Mapping¹ (50%) Population Density² (50%)

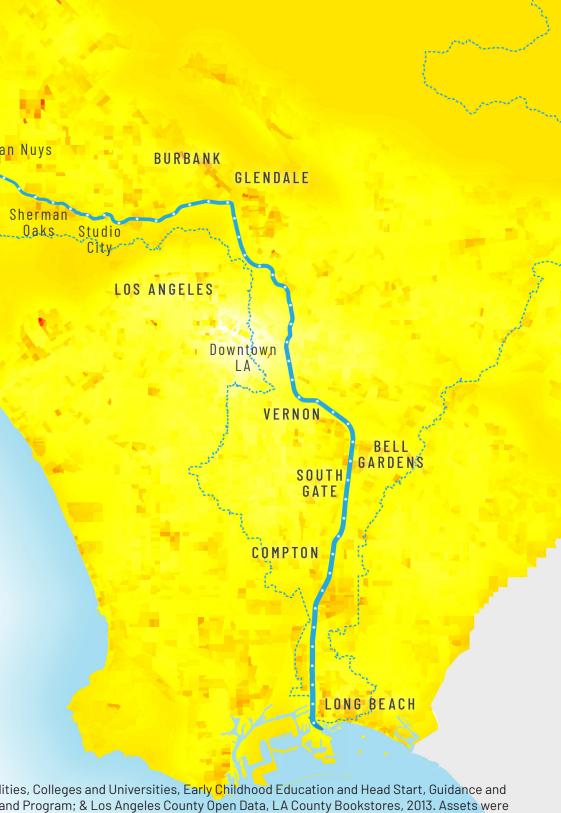


Lowest Need

1. Asset mapping includes: Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Libraries, Adult Education Facilities, Colleges and Universities, Early Childhood Education and Head Start, Guidance and Tutoring Programs, Private and Charter Schools, Public Elementary Schools, Public High Schools, Public Middle Schools, School Districts, Special Curriculum Schools and Program; & Los Angeles County Open Data, LA County Bookstores, 2013. Assets were combined to produce a relative asset density map.

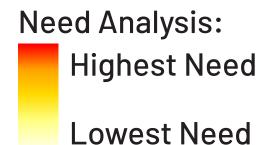
Park

2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates. 5 mi. Source: OLIN



ENGAGEMENT & EDUCATION

Asset Mapping¹ (50%)
Population Density² (50%)



Footnotes

1. Asset mapping includes: Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Libraries, Adult Education Facilities, Colleges and Universities, Early Childhood Education and Head Start, Guidance and Tutoring Programs, Private and Charter Schools, Public Elementary Schools, Public High Schools, Public Middle Schools, School Districts, Special Curriculum Schools and Program; & Los Angeles County Open Data, LA County Bookstores, 2013. Assets were combined to produce a relative asset density map.

2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

5 mi.

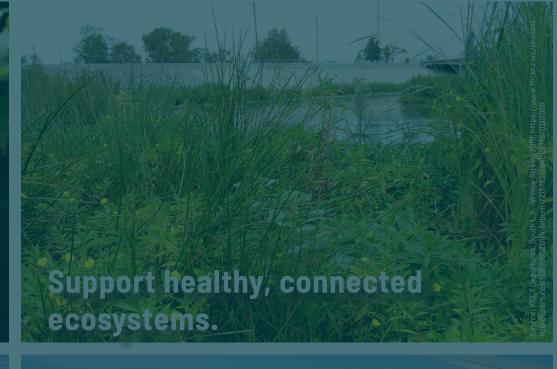
LONG BEACH

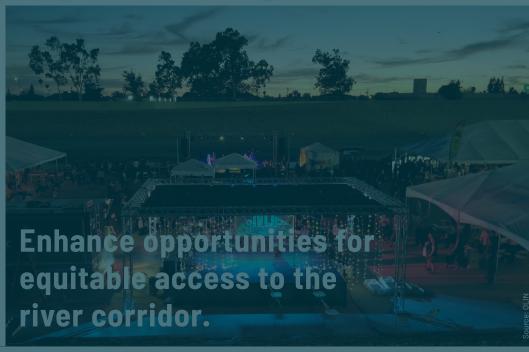
BURBANK

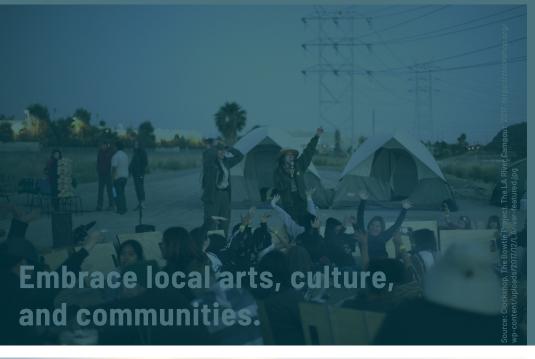
LOS ANGELES







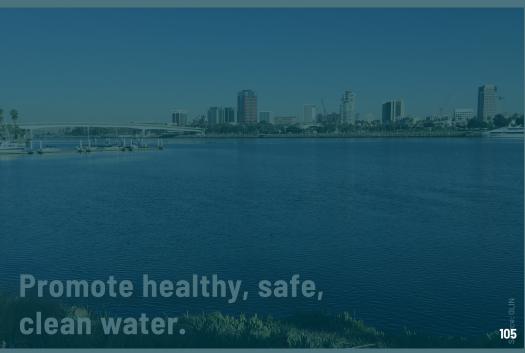






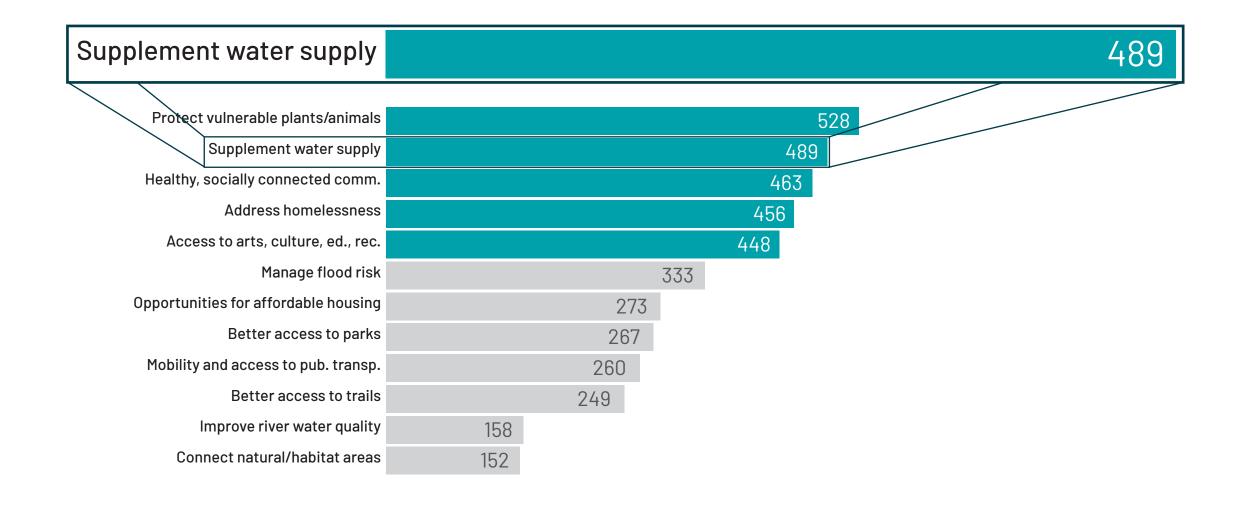






SUPPLEMENTING WATER SUPPLY IS THE SECOND MOST IMPORTANT ISSUE TO THE COMMUNITY

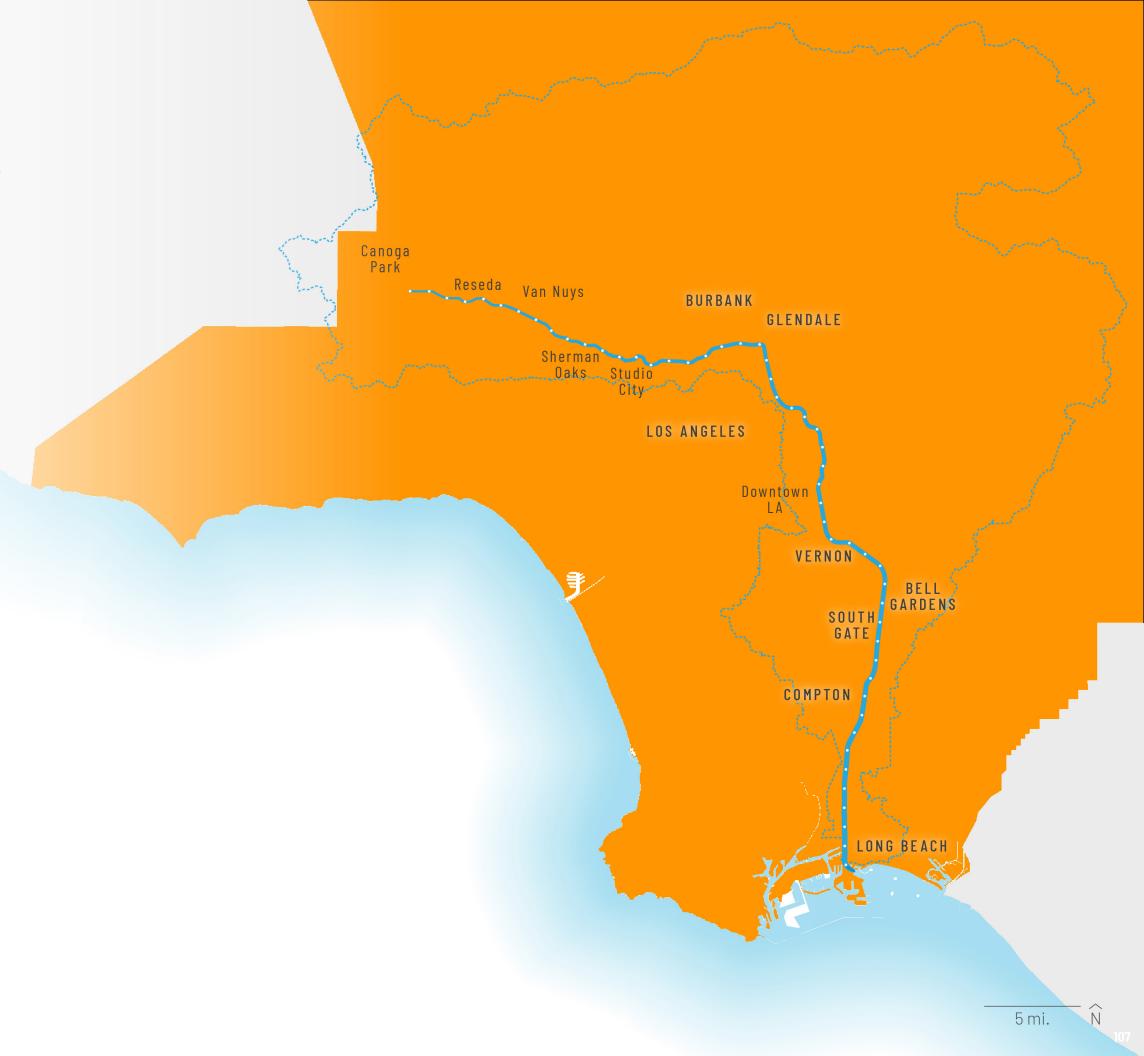
Goal: Improve local water supply reliability.



WATER SUPPLY

Regional Need (100%)

Need Analysis:
Highest Need
Lowest Need



WATER SUPPLY

Regional Need (100%)

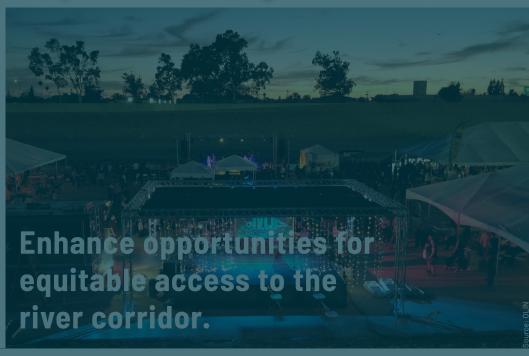
Need Analysis:
Highest Need
Lowest Need

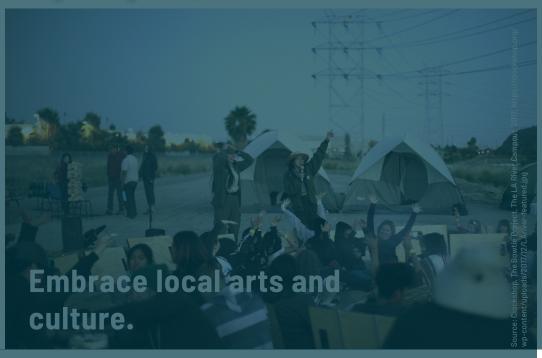








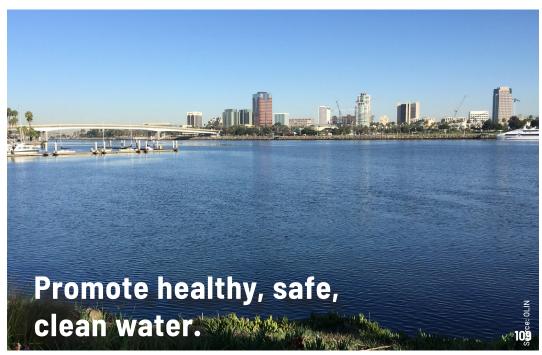








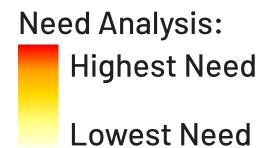


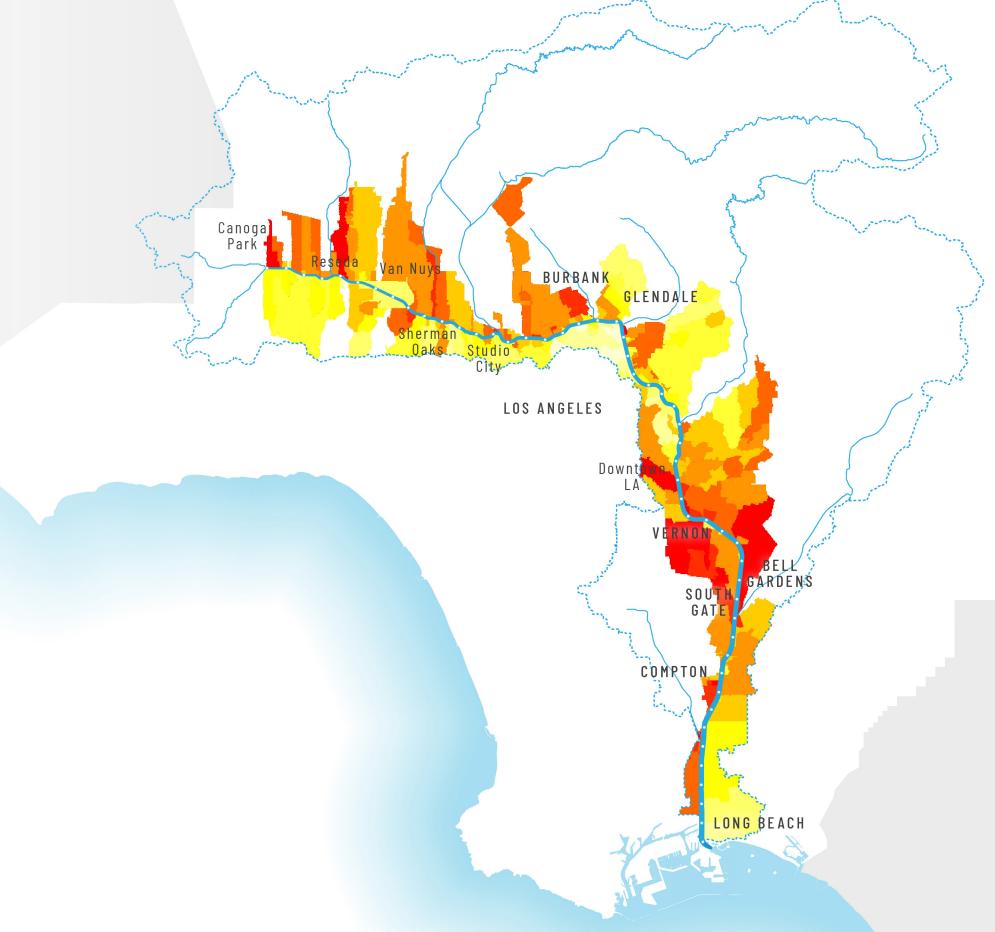


NEEDS ANALYSIS

WATER QUALITY

EWMP/WMP Score¹ (50%) Water Quality Priority (50%)





Footnotes:

1. EWMP and WMP score compiled from target versus planned BMP volume assigned to catchment areas within Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017). Target BMP volume weighted 75% versus 25% planned volume to account for uncertainty in future implementation.

NEEDS ANALYSIS

WATER QUALITY

EWMP/WMP Score¹(50%)
Water Quality Priority (50%)

Need Analysis:
Highest Need
Lowest Need

BURBANK LOS ANGELES GARDENŚ LONG BEACH

Footnotes:

1. EWMP and WMP score compiled from target versus planned BMP volume assigned to catchment areas within Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017). Target BMP volume weighted 75% versus 25% planned volume to account for uncertainty in future implementation.

Source: OLIN, Geosyntec



Enhance opportunities

for equitable access to

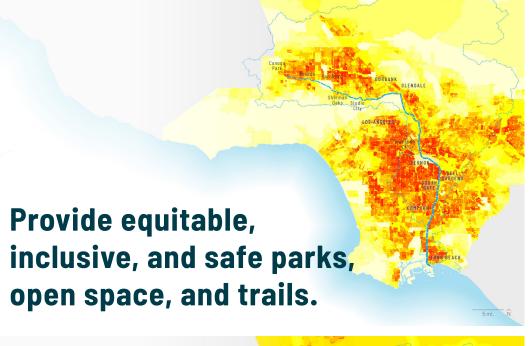
Foster opportunities for

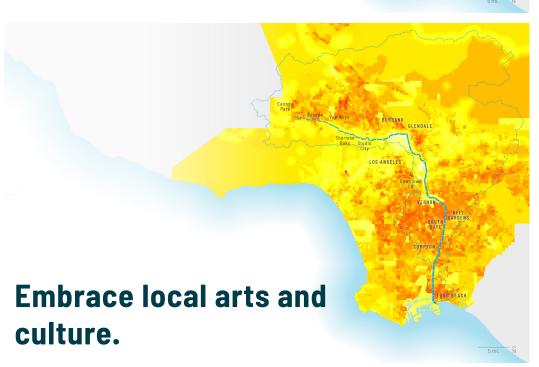
engagement, development,

continued community

and education.

the river corridor.





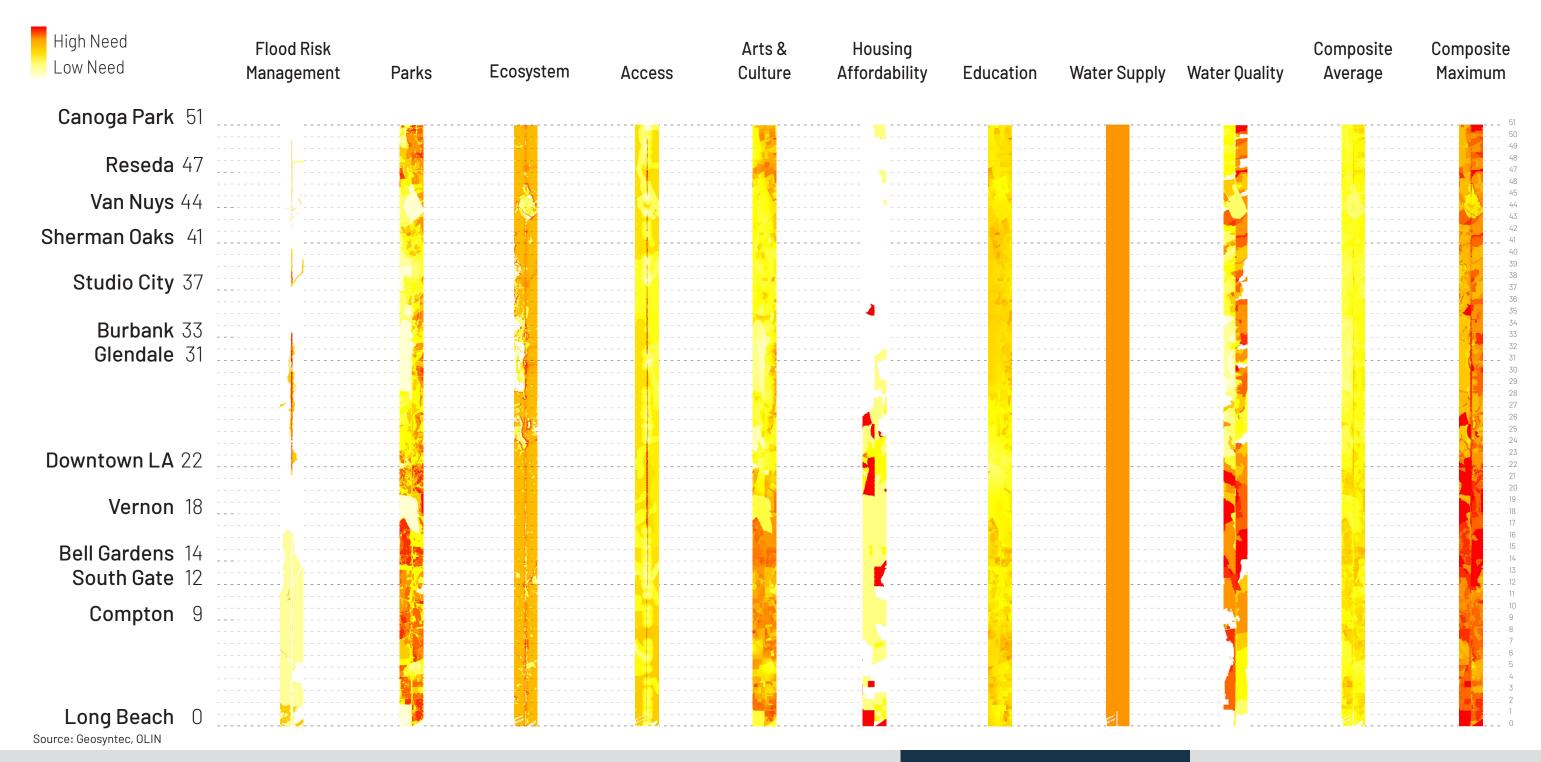








RELATIVE NEEDS COMPARISON



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

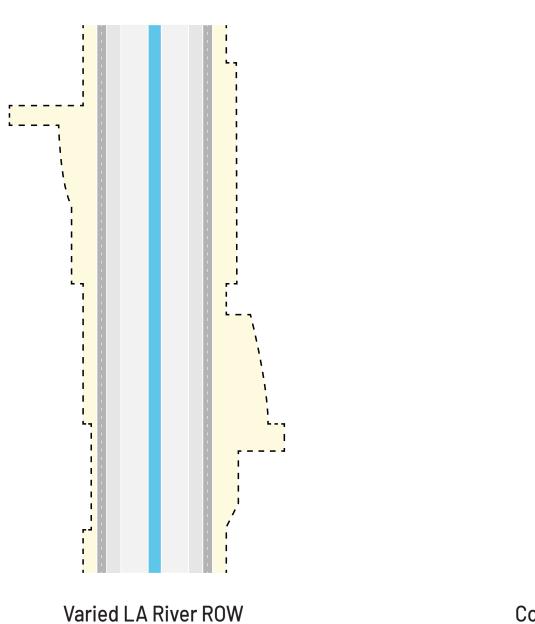
BLIC COMMENT

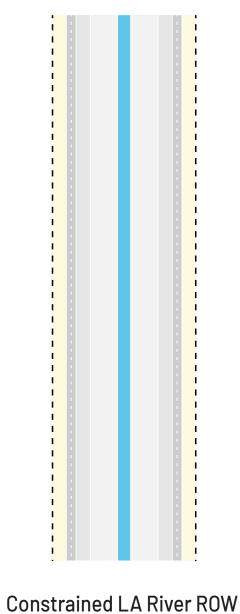
WRAP UP

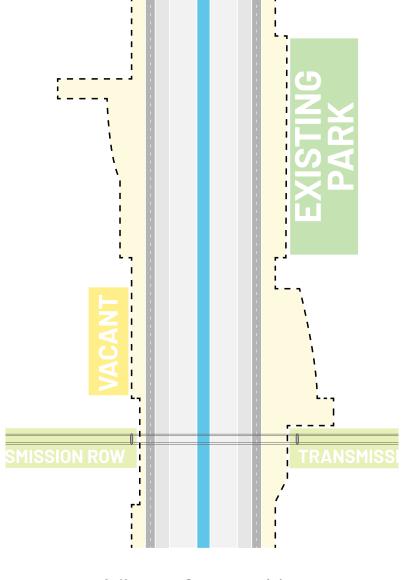


TYPICAL OPPORTUNITY SITES

Typical Conditions Along the LA River Corridor







Adjacent Opportunities

OPPORTUNITY

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

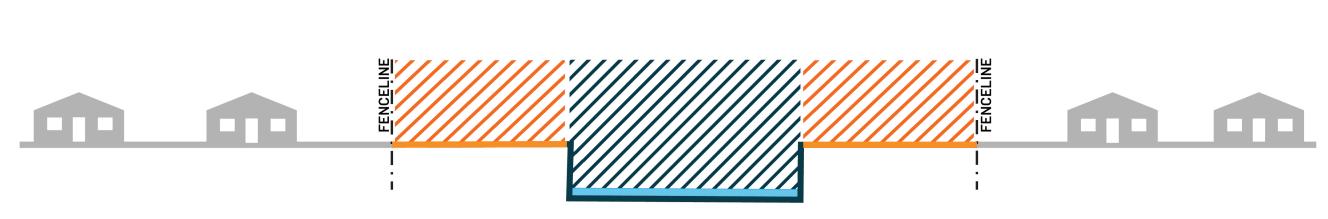
LAND ASSETS:

- 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

OPPORTUNITY: LAND ASSETS

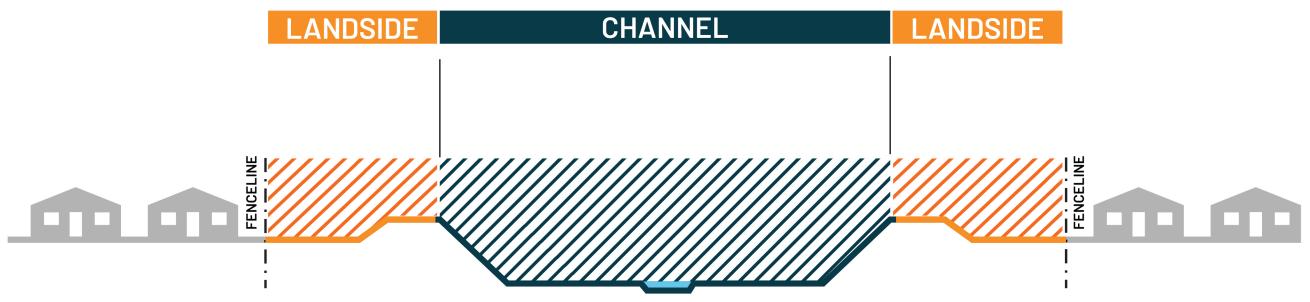
LA River Right-of-Way (ROW)

Rectangular Box Channel:



CHANNEL

Trapezoidal Channel:



LANDSIDE

LANDSIDE

OPPORTUNITY: LAND ASSETS

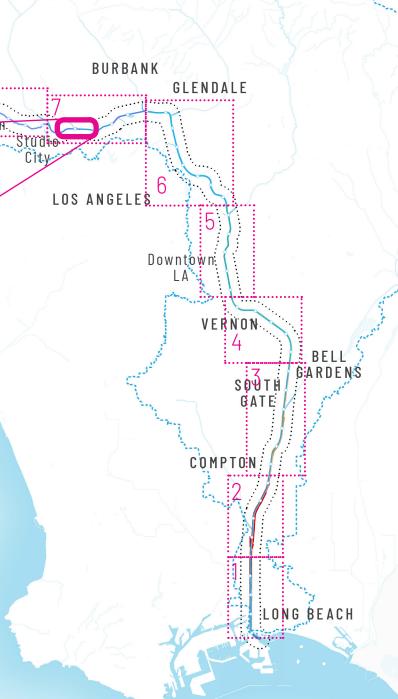
LA River Right-of-Way (ROW)

ROW Detail: Frame 7 / River Mile 36



LA River ROW Totals By Frame

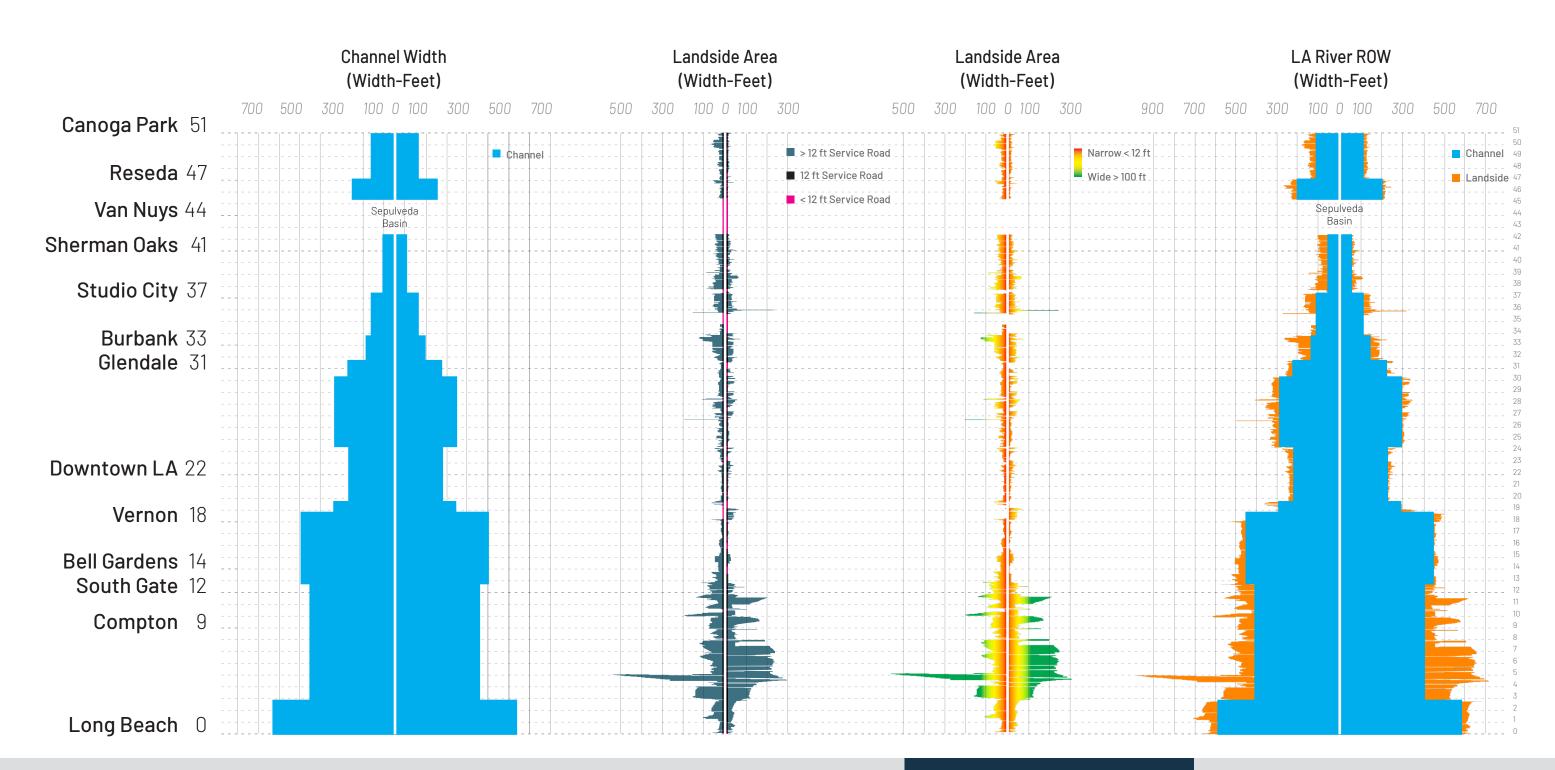
#	Planning Frame Name	Length (mi)	Landside Area Left Bank (ac)	Landside Area Right Bank (ac)	Landside Area Total (ac)	Channel Area Total (ac)	LA River ROW Total (ac)
9	Western San Fernando Valley	8.0	12.9	17.2	30.1	116.8	146.9
8	Central San Fernando Valley	5.3	19.2	25.2	40.7	32.9	73.6
7	Eastern San Fernando Valley	5.8	21.9	21.6	47.1	85.8	132.9
6	Narrows	7.5	25.1	22.0	47.1	301.2	348.3
5	Heights	5.0	12.8	9.9	22.7	152.5	175.2
4	North Los Angeles Plain	5.1	15.2	11.1	26.1	273.4	299.5
3	Central Los Angeles Plain	6.0	53.7	40.6	94.3	303.7	398.0
2	South Los Angeles Plain	4.4	130.5	54.1	184.6	219.0	403.6
1	Estuary	4.0	37.3	31.6	68.9	260.3	329.2
	TOTAL:	51.1	328.6	233.3	561.7	1745.7	2307.5



Reseda

Van Nuys

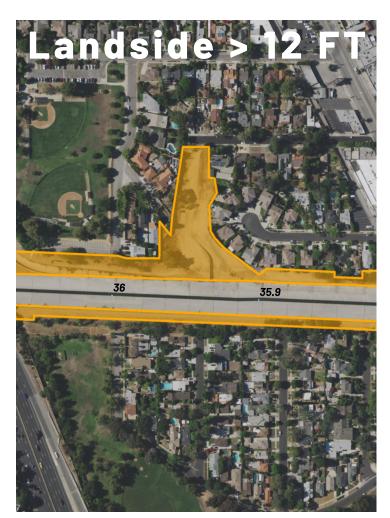
OPPORTUNITY: LA RIVER ROW ANALYSIS



WELCOME ENGAGEMENT UPDAT

OPPORTUNITY: LAND ASSETS

LA River Landside Area



Total: 74 mi / 72.6% Right Bank: 41.8 mi / 82.0%

Left Bank: 32.2 mi / 63.1%



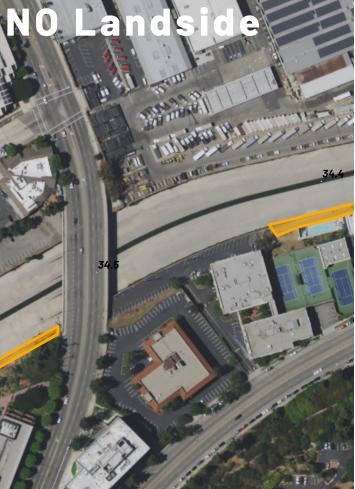
Total: 6.7 mi / 6.6%

Right Bank: 0.9 mi / 1.76% Left Bank: 5.8 mi / 11.4%



Total: 4.5 mi / 4.4%

Right Bank: 0.7 mi / 1.4% Left Bank: 3.8 mi / 7.5%



Total: 16.8 mi / 16.5%

Right Bank: 7.6 mi / 14.9 % Left Bank: 9.2 mi / 18.0%

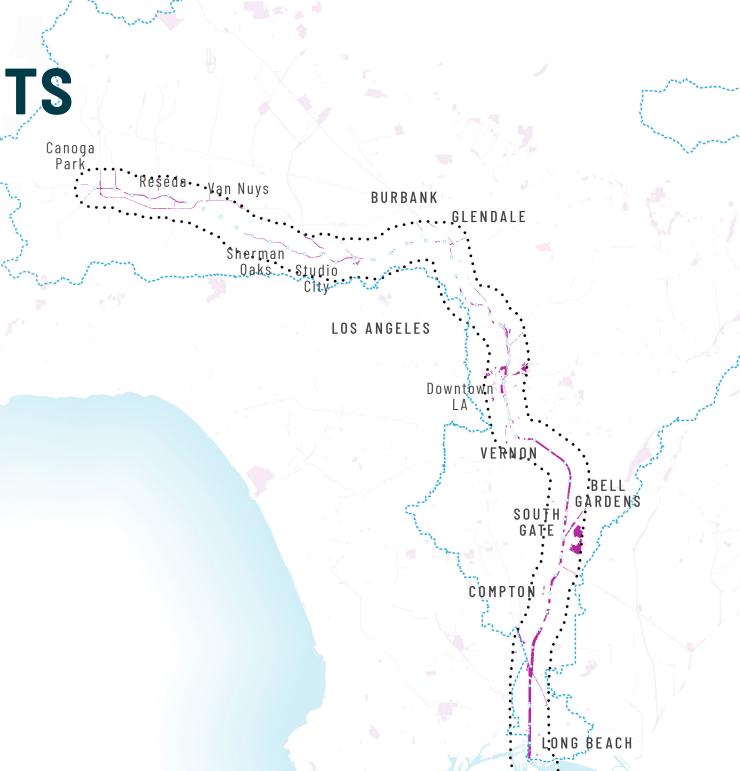
OPPORTUNITY: LAND ASSETS

LA County Owned Parcels



LA County-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	137.87	135.14	273.01
8	Central San Fernando Valley	5.3	85.44	20.57	106.01
7	Eastern San Fernando Valley	5.8	42.78	33.42	76.20
6	Narrows	7.5	116.36	26.86	143.22
5	Heights	5.0	141.40	180.83	322.23
4	North Los Angeles Plain	5.1	158.72	101.99	260.71
3	Central Los Angeles Plain	6.0	542.64	80.20	622.84
2	South Los Angeles Plain	4.4	251.87	188.40	440.27
1	Estuary	4.0	182.17	125.17	307.34



OPPORTUNITY: LAND ASSETS

Other Publicly Owned Parcels (Excluding County) Park

Sherman Oaks Studio City

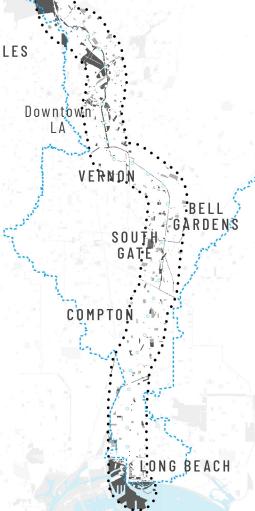
LOS ANGELES

Municipally Owned Parcels (Evo

Other Publicly Owned Parcels (Excluding County)

Publicly-Owned Parcels Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	City Owned Left Bank (ac)	City Owned Right Bank (ac)	City Owned Total (ac)	Other Public Left Bank (ac)	Other Public Right Bank (ac)	Other Public Total (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	93.29	68.24	161.53	1326.93	1171.09	2498.02	2659.55
8	Central San Fernando Valley	5.3	79.71	57.84	137.55	115.97	246.32	362.29	499.84
7	Eastern San Fernando Valley	5.8	170.74	601.99	772.73	62.65	387.49	450.14	1222.87
6	Narrows	7.5	366.44	2707.99	3074.43	291.05	46.58	337.63	3412.06
5	Heights	5.0	375.42	238.83	614.25	72.23	83.60	155.83	770.08
4	North Los Angeles Plain	5.1	118.77	121.75	240.52	141.40	53.71	195.11	435.62
3	Central Los Angeles Plain	6.0	177.16	168.65	345.82	115.92	200.12	316.03	661.85
2	South Los Angeles Plain	4.4	123.30	58.45	181.75	89.27	66.72	155.98	337.73
1	Estuary	4.0	352.25	1495.49	1847.74	61.30	128.01	189.31	2037.05



5 mi.

OPPORTUNITY: LAND ASSETS

Other Underutilized Right-of-Way (ROW)



Other Underutilized ROW Parcels

Privately-Owned LA River ROW Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL ROW AREA (ac)
9	Western San Fernando Valley	8.0	37.66	84.15	121.81
8	Central San Fernando Valley	5.3	2.62	6.46	9.08
7	Eastern San Fernando Valley	5.8	13.07	37.44	50.50
6	Narrows	7.5	223.58	0.11	223.69
5	Heights	5.0	246.16	159.16	405.32
4	North Los Angeles Plain	5.1	567.20	121.97	689.18
3	Central Los Angeles Plain	6.0	312.82	48.71	361.53
2	South Los Angeles Plain	4.4	96.91	244.20	341.11
1	Estuary	4.0	24.83	184.91	209.74



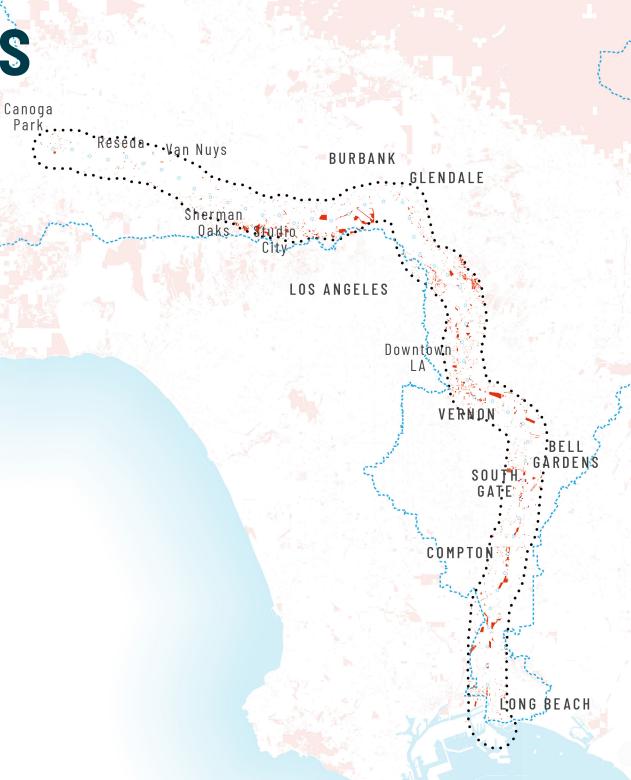
OPPORTUNITY: LAND ASSETS

Vacant Private Parcels



Privately-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	148.63	29.76	65.51
8	Central San Fernando Valley	5.3	54.98	231.63	250.06
7	Eastern San Fernando Valley	5.8	92.12	325.21	417.33
6	Narrows	7.5	265.30	105.30	370.61
5	Heights	5.0	113.01	141.47	254.48
4	North Los Angeles Plain	5.1	224.82	83.92	308.73
3	Central Los Angeles Plain	6.0	129.03	162.29	291.32
2	South Los Angeles Plain	4.4	148.63	101.97	250.60
1	Estuary	4.0	54.98	130.29	185.27



OPPORTUNITY: LAND ASSETS

Underutilized* Private Parcels**

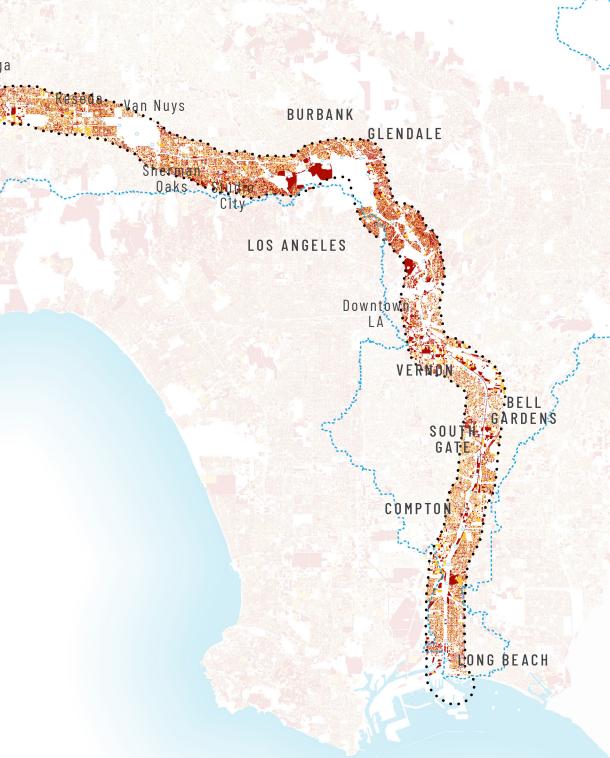
*Improvement to Land Value Ratio (ILR) is an indicator of underutilization. The decimal ratio represents how much buildings or ammenities are worth divided by how much the land itself is worth. Anything below 0.8 is considered underutilized.

**Only applicable for housing need

Private Parcels, $0 \le ILR \le 0.5$ Private Parcels, $0.5 < ILR \le 0.8$

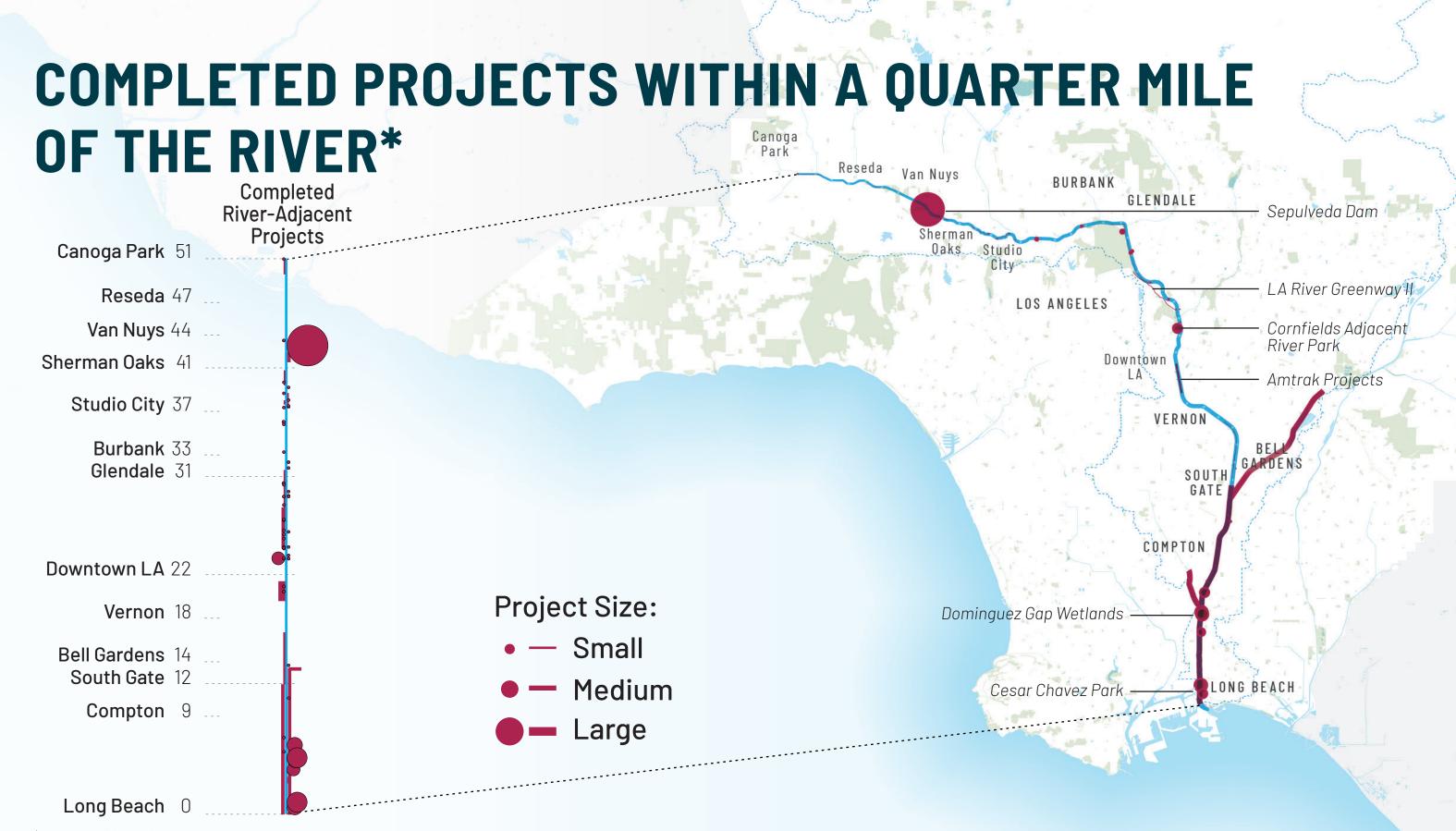
Privately-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	2985.65	2872.49	5858.14
8	Central San Fernando Valley	5.3	2093.29	2681.95	4775.24
7	Eastern San Fernando Valley	5.8	2365.65	2354.06	4719.71
6	Narrows	7.5	3590.99	1608.49	5199.48
5	Heights	5.0	1903.79	1354.59	3258.38
4	North Los Angeles Plain	5.1	2738.13	2448.25	5186.38
3	Central Los Angeles Plain	6.0	1981.36	2547.48	4528.84
2	South Los Angeles Plain	4.4	1999.65	1842.22	3841.87
1	Estuary	4.0	1478.91	1264.77	2743.68



OPPORTUNITY ANALYSIS OPPORTUNITY: LAND ASSETS Canoga Park Reseda Pedestrian Street Network Van Nuys BURBANK GLENDALE Sherman Studio Oaks LOS ANGELES Downtown VERNON BELL GARDENS SOUTH GATE COMPTON Pedestrian Street Network within 1 mile of the LA River LONG BEACH Other Pedestrian Street Network Streets

5 mi.



*DRAFT - AND COUNTING Source: Los Angeles County Public Works, Geosyntec, OLIN

COMPLETED AND PROPOSED PROJECTS WITHIN A





*DRAFT - AND COUNTING Source: Geosyntec, OLIN

Long Beach 0

SITES OF INTEREST ARE LOCATED AT OVERLAPPING AREAS OF NEED AND OPPORTUNITY



VELCOME ENGAGEMENT (

OPPORTUNITY: POTENTIAL SITES

Selection of Opportunity Parcels within 1 mile of the LA River (Includes LA River ROW)

450 PARCELS



SITE SELECTION

DESKTOP ANALYSIS

Analysis for Choosing Opportunity Sites

Is there recent construction on the site?

Is there apparent contamination (Superfund or Brownfield designation)?

Is there known hazardous waste?

Are there any known existing or planned projects for the site?

Does the site align with an area of high need?

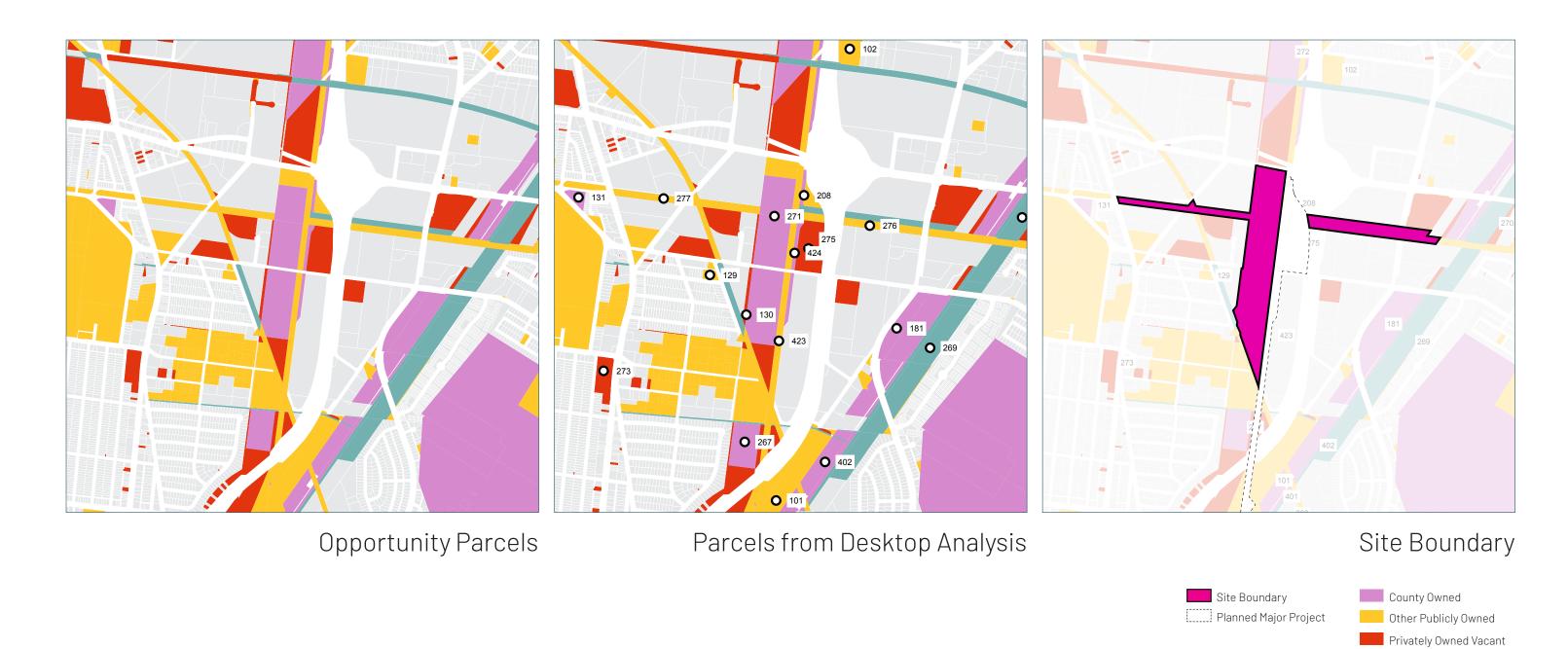
How large is the site?

How close is the site to the LA River?

Could the site be part of a connected continuous open space system?

LCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP

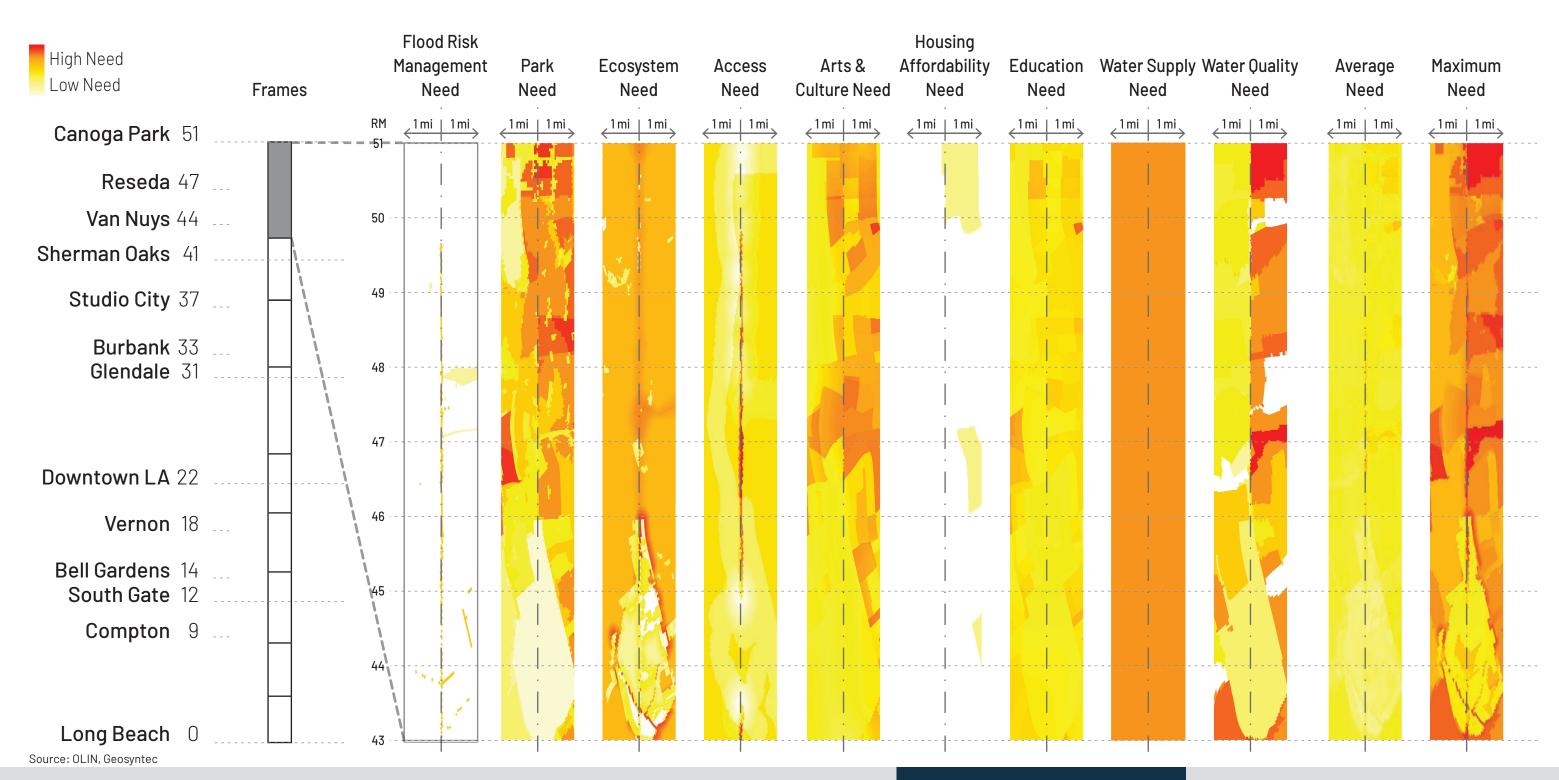
AGGREGATING PARCELS



GOAL-DRIVEN FRAMEWORK

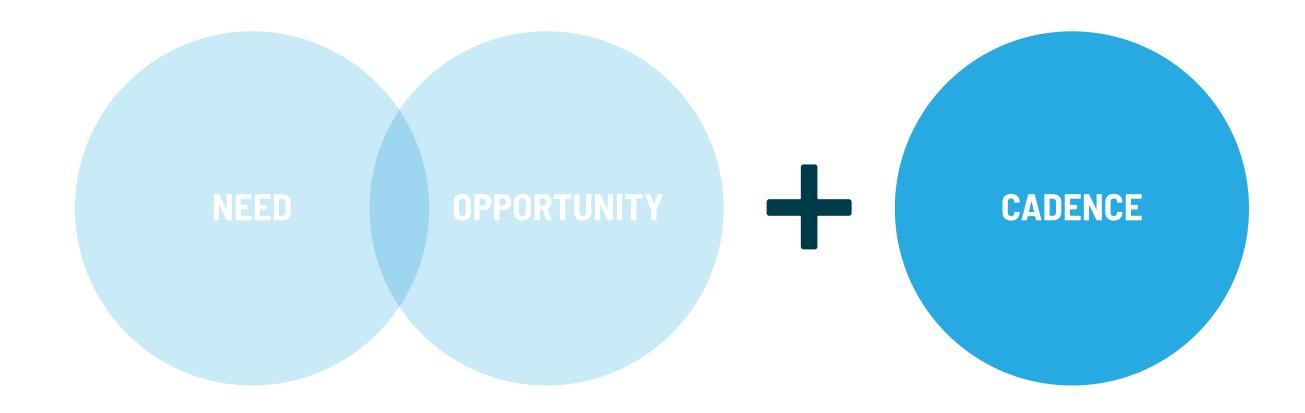
Privately Owned ROW

FRAME 9 NEEDS



HOW DO WE LOCATE NEW PROJECTS?

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



WELCOME ENGAGEMENT UPI

CADENCE

Confirm projects are distributed along the river equally and vary in scale.

XL

ex: Regional Parks, Water Recharge Area, Affordable Housing

L

ex: Community Park, Cultural Center

M

ex: Neighborhood Parks, Community Center, Bridges

DESIGN COMPONENTS >

S

ex: Pocket Parks, Park Nodes, Access Gateways, Restrooms & Premium Shelters

XS

ex: Basic & Comfort Shelters, Lighting, Signage, Benches

SOUDELINES

SITE SELECTION

SAMPLE SITE SELECTION: XS, S

Final Criteria for Choosing Opportunity Sites

Is there an opportunity to cross from one bank to the other every half mile?

Is an existing trail disconnected from adjacent neighborhoods?

Where do major streets intersect with the river?

Is there land availability where roads and proposed trails (like bike paths) meet the river?

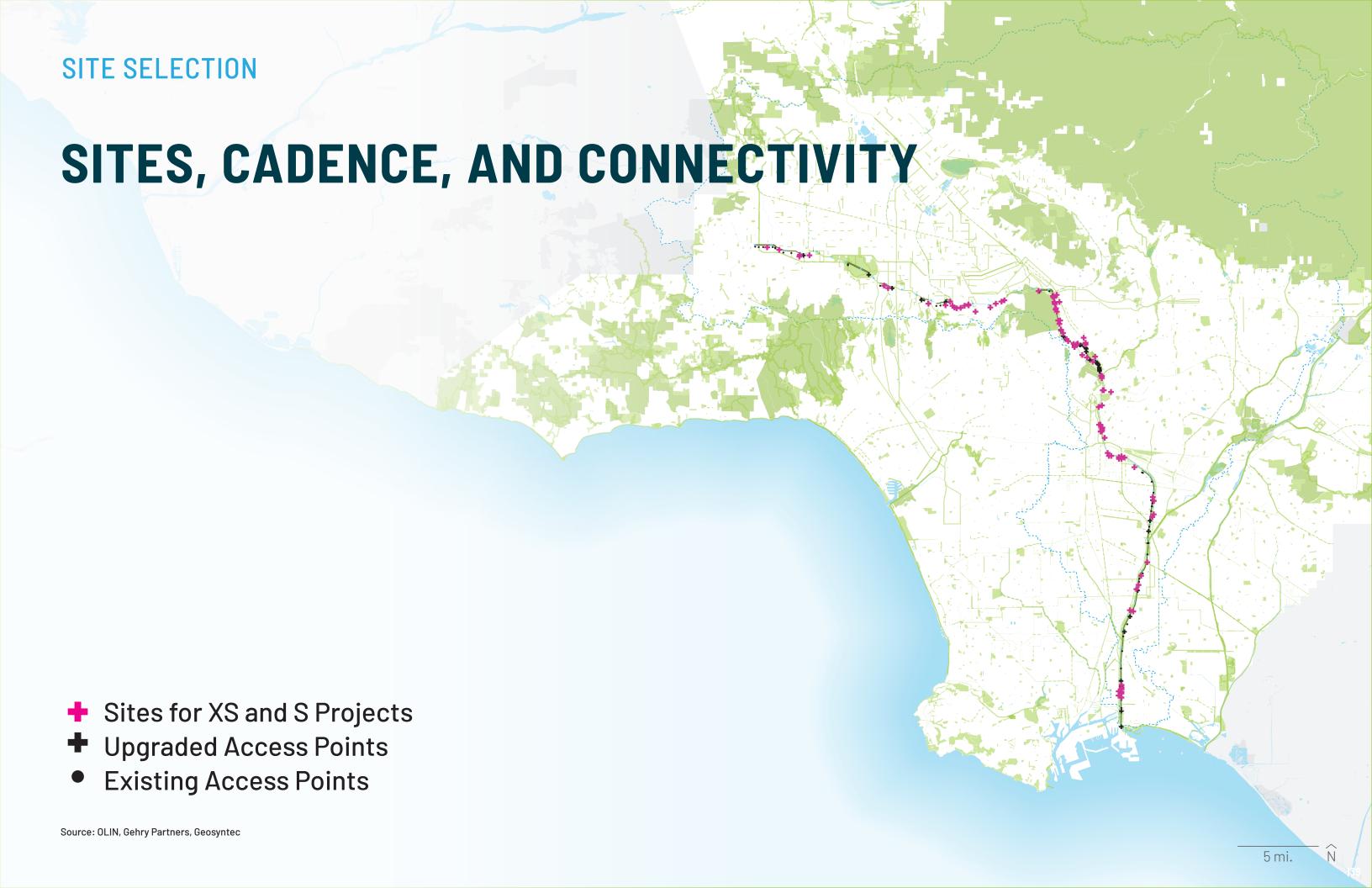
LCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP



SITE SELECTION: XS, S

13 NEWLY PROPOSED SITES 85 ADDITIONAL SITES FROM PLANS* 40 IMPROVED ACCESS POINTS

- Sites for XS and S Projects
- Upgraded Access Points
- Existing Access Points



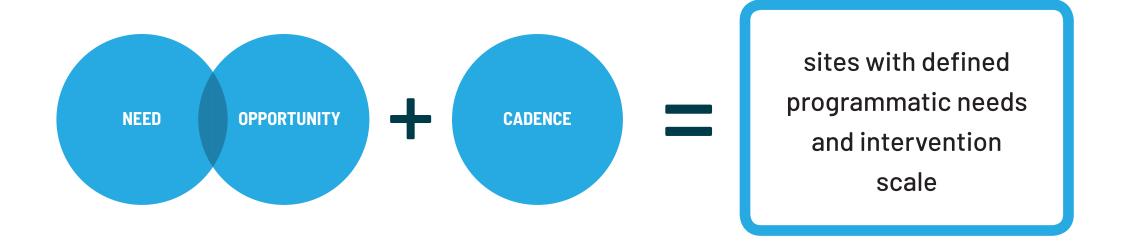


GOAL-DRIVEN DESIGN FRAMEWORK



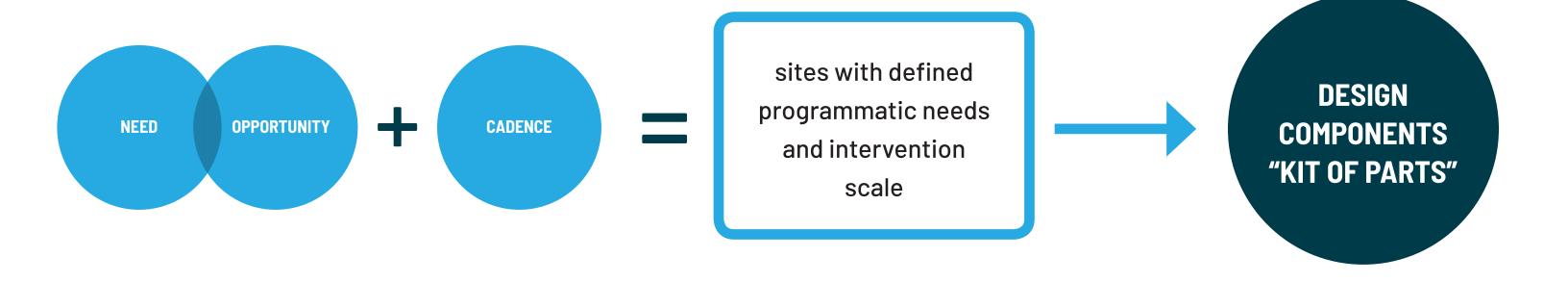
WELCOME

GOAL-DRIVEN DESIGN FRAMEWORK



WELCOME EN

GOAL-DRIVEN DESIGN FRAMEWORK



WELCOME

KIT OF PARTS

EXAMPLE

NEED	OPPORTUNITY	CADENCE (SCALE)	DESIGN COMPONENT
flood risk management + water quality + habitat	landside RM 11.5 right bank (vacant parcel, publicly owned)	15 acres	natural treatment system

VELCOME ENGAGEMENT UPDATE

KIT OF PARTS: CATEGORIES

- FLOODPLAIN RECLAMATION
- 2 CROSSINGS & PLATFORMS
- TRAILS, ACCESS GATEWAYS, AND SHELTERS
- 4 CHANNEL MODIFICATIONS
- 5 DIVERSIONS
- 6 OFF CHANNEL LAND ASSETS

KIT OF PARTS: CATEGORIES & COMPONENTS

1

FLOODPLAIN RECLAMATION

- Natural Treatment System
- Naturalized Bank
- Braided Channel
- Field
- Storage (Surface: Reservoir, Lake, Pond)

2

CROSSINGS & PLATFORMS

- Pedestrian Bridge
- Bike Bridge
- Equestrian Bridge
- Multi-use Bridge
- Cantilever
- Platform
- Natural Treatment System

3

TRAILS, ACCESS GATEWAYS & SHELTERS

- River Gateway
- Pedestrian Trail
- Pedestrian Facility (Bench, Lighting, Trash Receptacle, Wayfinding)
- Bike Trail
- Equestrian Trail
- Equestrian Facility
- Multi-use Trail
- Multi-use Facility
- Shelter
- General Amenity (Cafe, Kiosk, Restroom)
- Light Tower / Water Tower
- Lookout
- Boardwalk
- Channel Access
- Vehicular Access
- Underpass and Overpass
- Natural Treatment System

4

CHANNEL MODIFICATIONS

- Terraced Bank
- Check Dam
- Deployable Barrier (Rubber Dam)
- Levee
- Armored Channel
- Flood Vent
- Vertical Wall
- Channel Widening
- Reshape Low Flow
- Channel Smoothing
- Texturizing or Grooving
- Concrete Bottom
- Soft Bottom
- Sediment Removal /
 Vegetation Conversion
- Bridge Pier / Abutment
 Removal / Modification

5

DIVERSIONS

- Pump
- Deployable Barrier (Rubber Dam)
- Diversion Pipe
- Diversion Channel
- Diversion Tunnel
- Overflow Weir

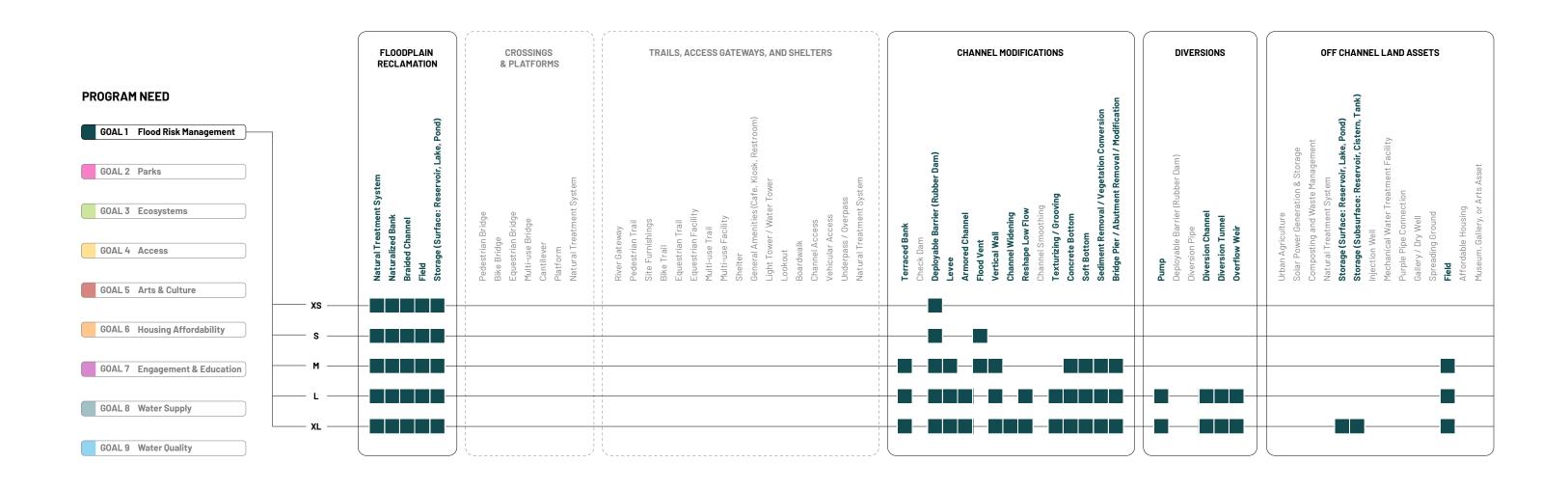
6

OFF CHANNEL LAND ASSETS

- Urban Agriculture (Orchard, Farm, Nursery, Community Garden)
- Solar Power Generation & Storage
- Composting and Waste Management
- Natural Treatment System
- Storage (Surface: Reservoir, Lake, Pond)
- Storage (Subsurface: Reservoir, Cistern, Tank)
- Injection Well
- Mechanical Water Treatment Facility
- Purple Pipe Connection
- Gallery / Dry Well
- Spreading Ground
- Field
- Affordable Housing
- Museum, Gallery, or Other Arts
 Installation or Institution

WELCOME

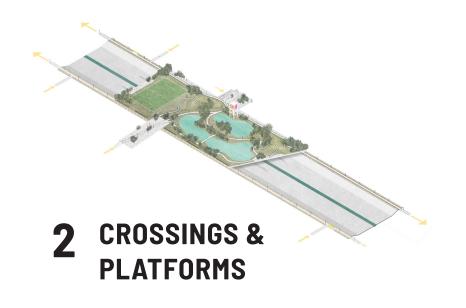
KIT OF PARTS FRAMEWORK



Source: OLIN, Gehry Partners, Geosyntec

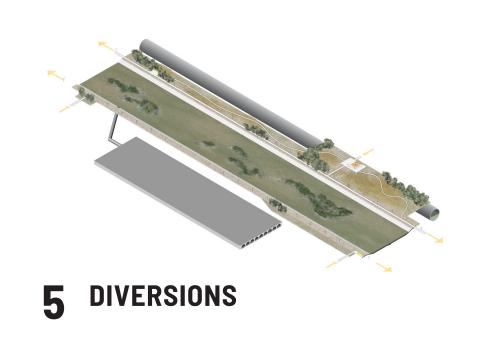
KIT OF PARTS









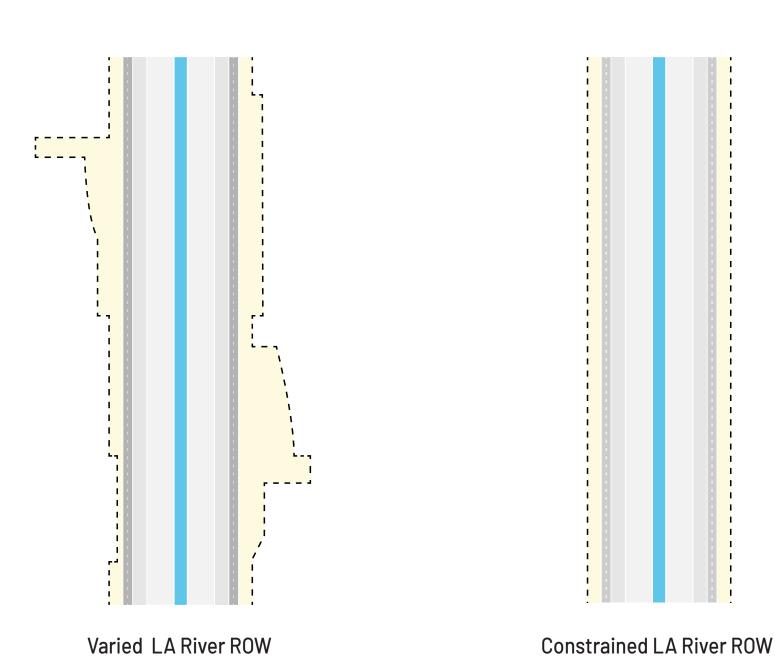


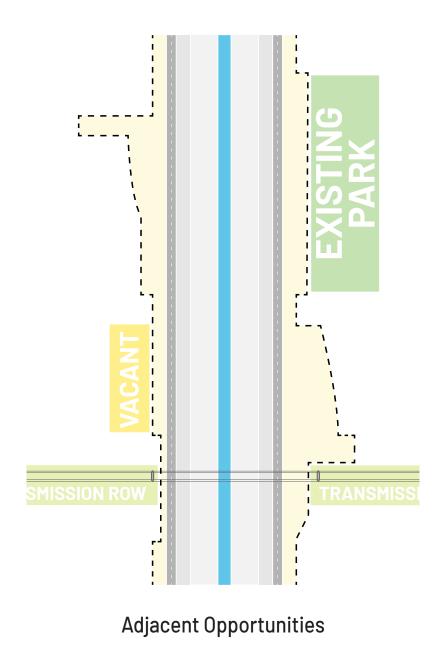


Source: OLIN, Gehry Partners, Geosyntec

TYPICAL OPPORTUNITY SITES

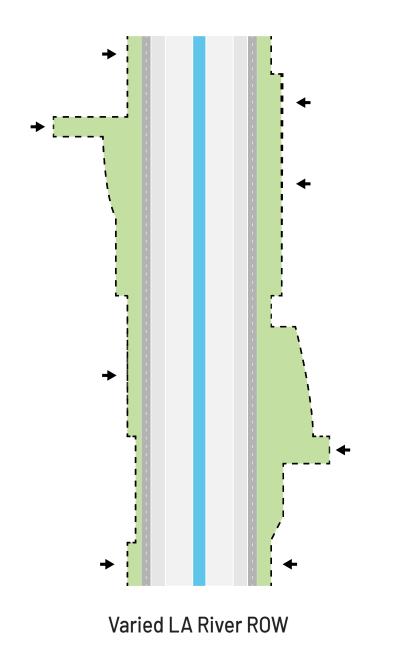
Common Conditions Along the LA River Corridor

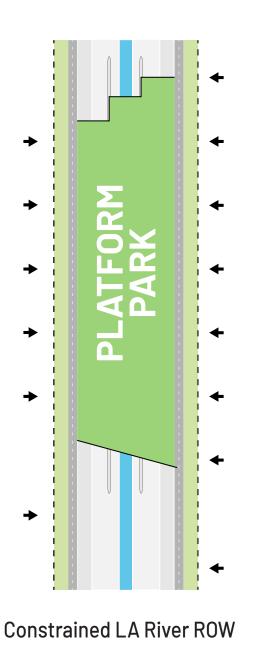


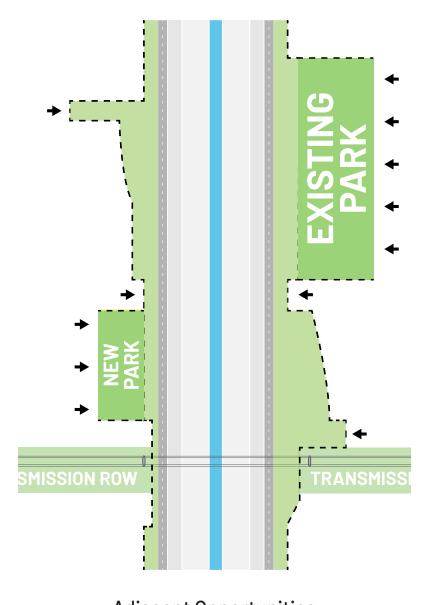


RELATING NEED AND DESIGN

Strategies for Applying Design Elements

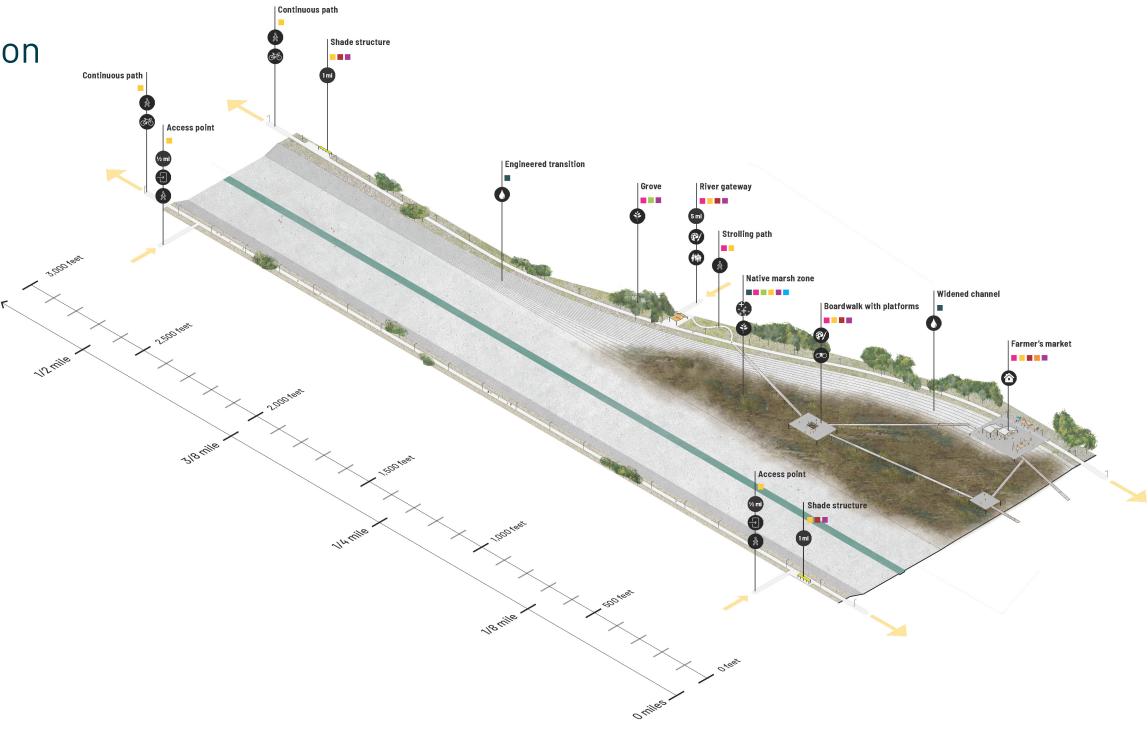






Floodplain Reclamation

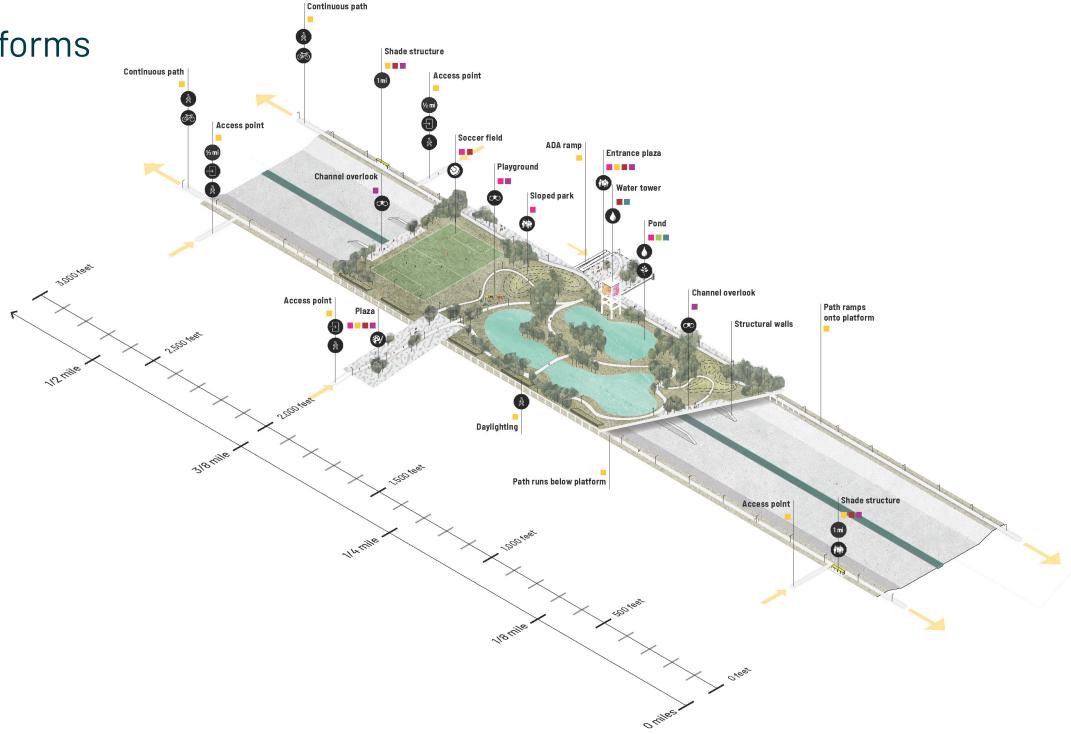
PARKS
ECOSYSTEMS
ACCESS
ARTS & CULTURE
HOUSING AFFORDABILITY
EDUCATION
WATER SUPPLY
WATER QUALITY



Crossings and Platforms

PARKS
ECOSYSTEMS
ACCESS
ARTS & CULTURE
HOUSING AFFORDABILITY
EDUCATION
WATER SUPPLY

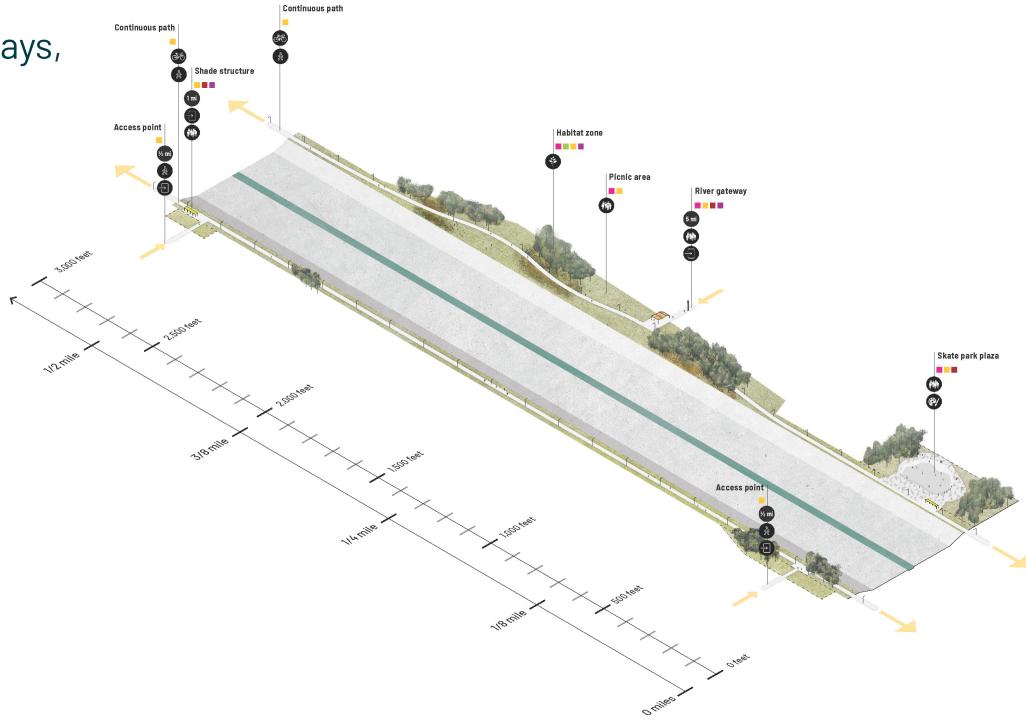
WATER QUALITY



KIT OF PARTS

Trails, Access Gateways, and Shelters

PARKS
ECOSYSTEMS
ACCESS
ARTS & CULTURE
HOUSING AFFORDABILITY
EDUCATION
WATER SUPPLY

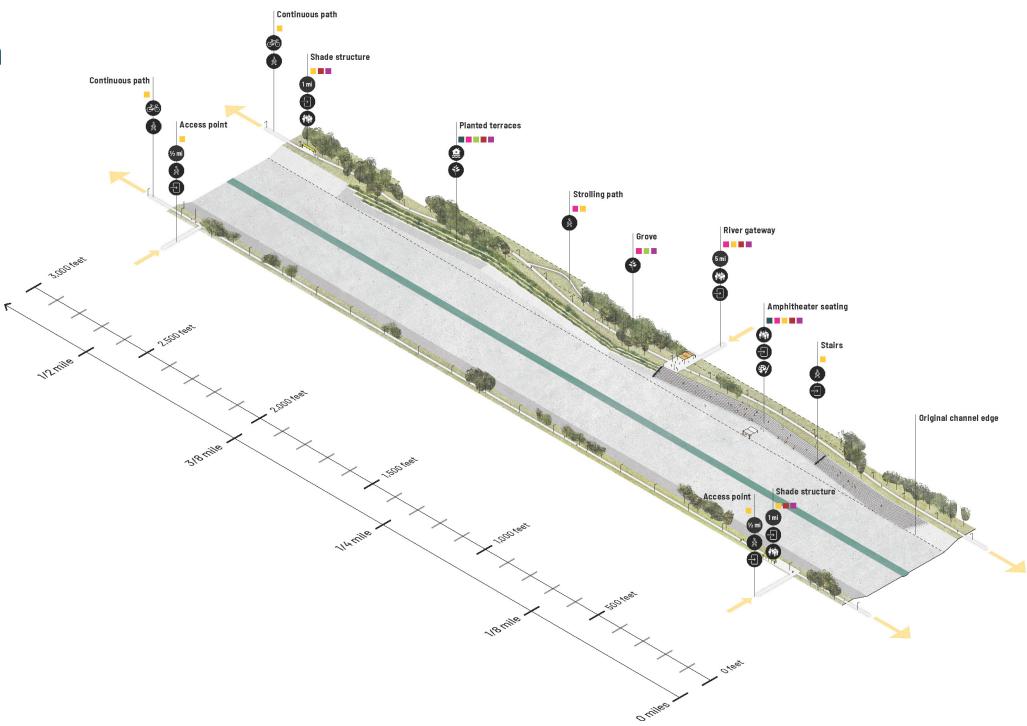


NELCOME ENG

Channel Modification

PARKS
ECOSYSTEMS
ACCESS
ARTS & CULTURE
HOUSING AFFORDABILITY
EDUCATION
WATER SUPPLY

WATER QUALITY



Diversions

FLOOD RISK MANAGEMENT

PARKS

ECOSYSTEM

ACCES

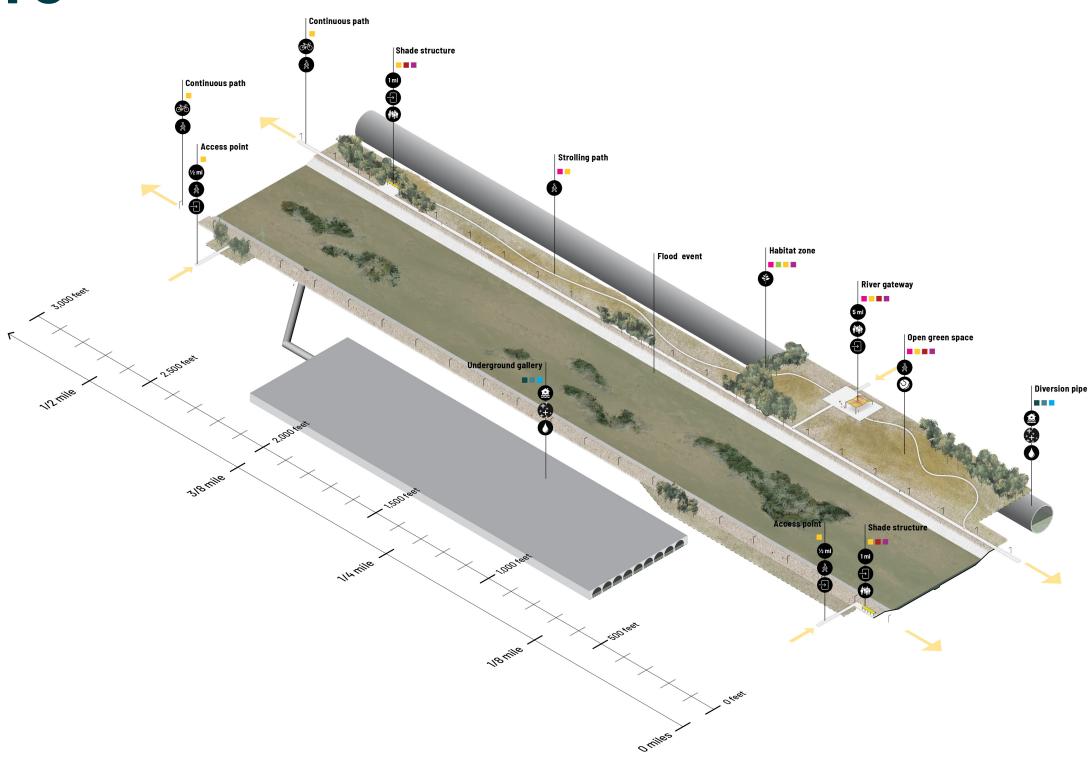
ARTS & CULTUR

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EDUCATION

*N*ATER SUPPL

WATER QUALITY



Off Channel Land Assets

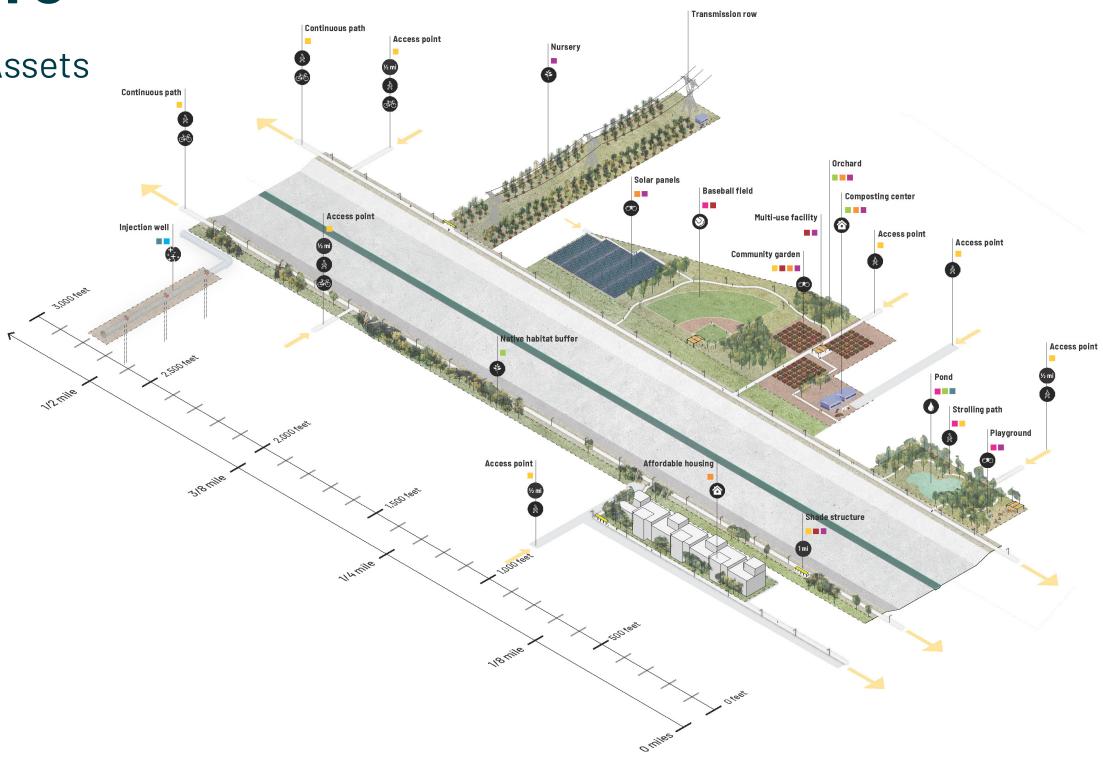
PARKS
ECOSYSTEMS

HOUSING AFFORDABILITY

EDUCATION

WATER SUPPL

WATER QUALITY



WELCOME



GOAL: ACTIVE PRIORITY FOR THE FUTURE

POTENTIAL ACTIONS

Movements toward the priority

POTENTIAL METHODS

• Specific implementation steps for each action

ELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP

2020 PLAN RECOMMENDATIONS

Goals (9)

Actions

Methods

PARTIES RESPONSIBLE FOR IMPLEMENTATION POTENTIAL IMPLEMENTATION PARTNERS

GEOGRAPHIC BOUNDARIES

ORDER-OF-MAGNITUDE COST
EXISTING FUNDING SOURCES
POTENTIAL NEW FUNDING SOURCES

TIMEFRAME

Frames (9)

L Projects

WHAT

WHO

WHERE

HOW

WHEN

WELCOME

ENGAGEMENT UPDATE

EXAMPLE OF GAM MATRIX

Reduce flood risk and improve resiliency.	WHAT		W	HO	WHERE		HOW		WHEN
Action/Methods	Related Actions/Methods	LARMP 1996	Implementation Responsibilitiy	Potential Partners	Geographic Boundaries	Cost	Existing Funding Sources	Potential New Funding Sources	Timeframe
1.1. Reduce flows into the river.			PW/FCD		LA River Watershed				ongoing
1.1.1. Ensure all development within the watershed incorporates low impact development techniques.									
1.1.2. Evaluate regional scale upstream flood detention basins.									
1.1.3. Coordinate with Watershed Management Programs/Enhanced Watershed Management Programs (E/WMPs) and other watershed management efforts to reduce imperviousness in the watershed.									
.2. Increase capacity of the river in high risk areas and provide flood risk management to at least the 100-year event.			PW/FCD	USACE	LA River Corridor				long term (0-20 years)
1.2.1. Prioritize natural features and processes for flood risk reduction.									
 Purchase or otherwise reclaim land along the channel and immediately adjacent floodplain areas. 									
1.2.3. Widen and deepen the channel or raise levees.									
1.2.4. Build bypass channels and tunnels.									
1.2.5. Manage sediment in the river channel and before it accumulates in the river channel.									
1.2.6. Manage vegetation and remove invasive plants.									
1.3. Include climate change research in the planning process for new projects along the river.			PW/FCD	CSO	LA River Watershed				short term (0-5 years)
1.3.1. Update and improve the LA River hydrology analysis.									
1.3.2. Update and improve flood inundation mapping.									
Conduct inter-institutional study on climate change impacts in the LA Basin and how they impact hydrology.									
Apply latest accepted climate change preduction models in flood risk reduction planning.									
1.4. Improve and refine emergency preparedness.			PW/FCD	Sheriff, Fire Department, Health Agency, Municipal	LA River Corridor				short term (0-5 years)

VELCOME ENGAGEMENT UPDAT





PUBLIC COMMENT OPTIONS

Verbal comments

- Speakers to be called in order of speaker cards submitted (optional)
- Up to 15 minutes total for the Public Comment item
- Total time per person will depend on number of speaker cards received
- Comment cards
- Email comments to LARiver@dpw.lacounty.gov



Important Upcoming Dates:

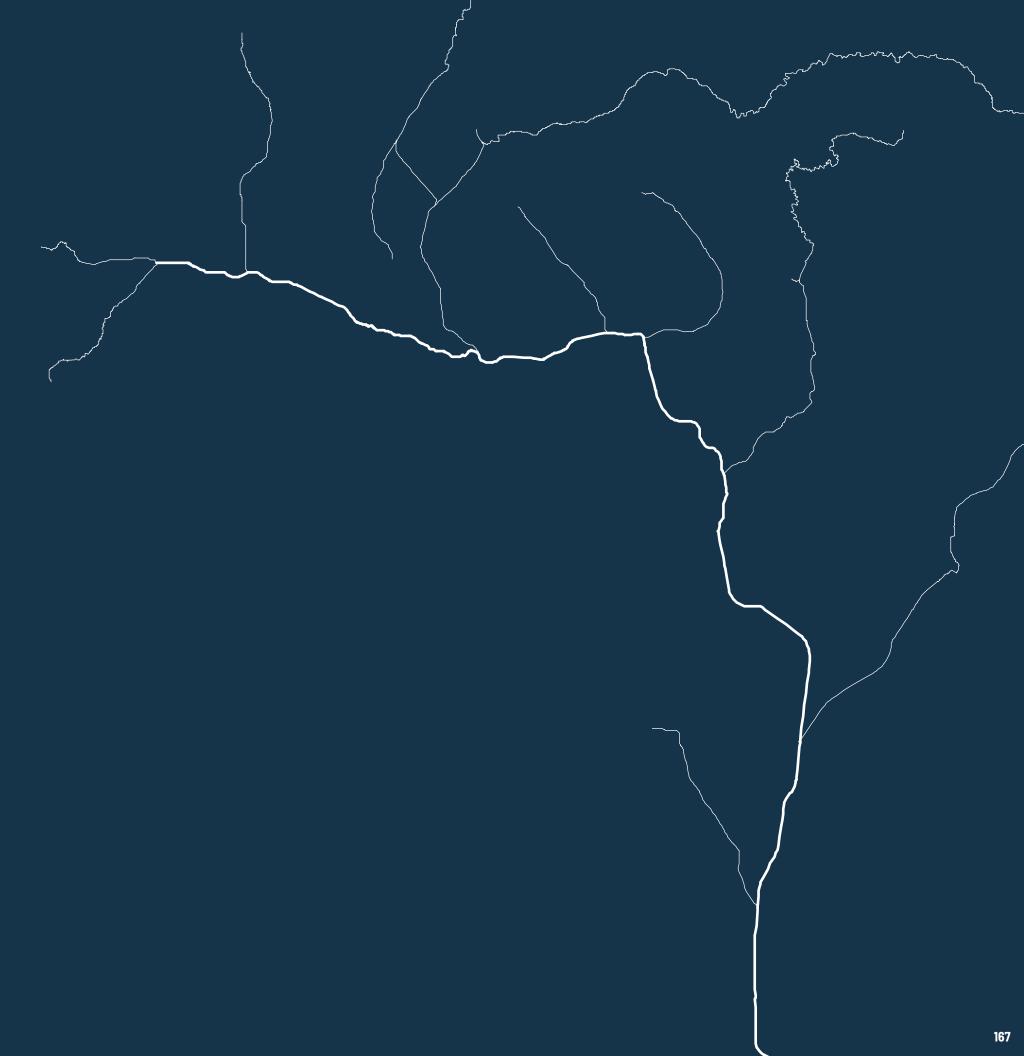
- Resource Conservation District Clean Up Day at Sepulveda Basin April 13, 2019
- Community Meeting (Compton /Lynwood/East Rancho Dominguez) April 24, 2019
- Community Meeting (Pacoima) May 15, 2019
- Native Voices Symposium June 1, 2019
- Steering Committee Meeting #6 June 26, 2019
- Community Meeting (Glendale) June 27, 2019
- Pacoima Beautiful Summer Institute and Community Event July 1, 2019
- SELA Arts Fest (Exhibitors) July 27, 2019

INPUT, QUESTIONS, IDEAS? Contact Genevieve Osmena at (626) 458-4322 or LARiver@dpw.lacounty.gov

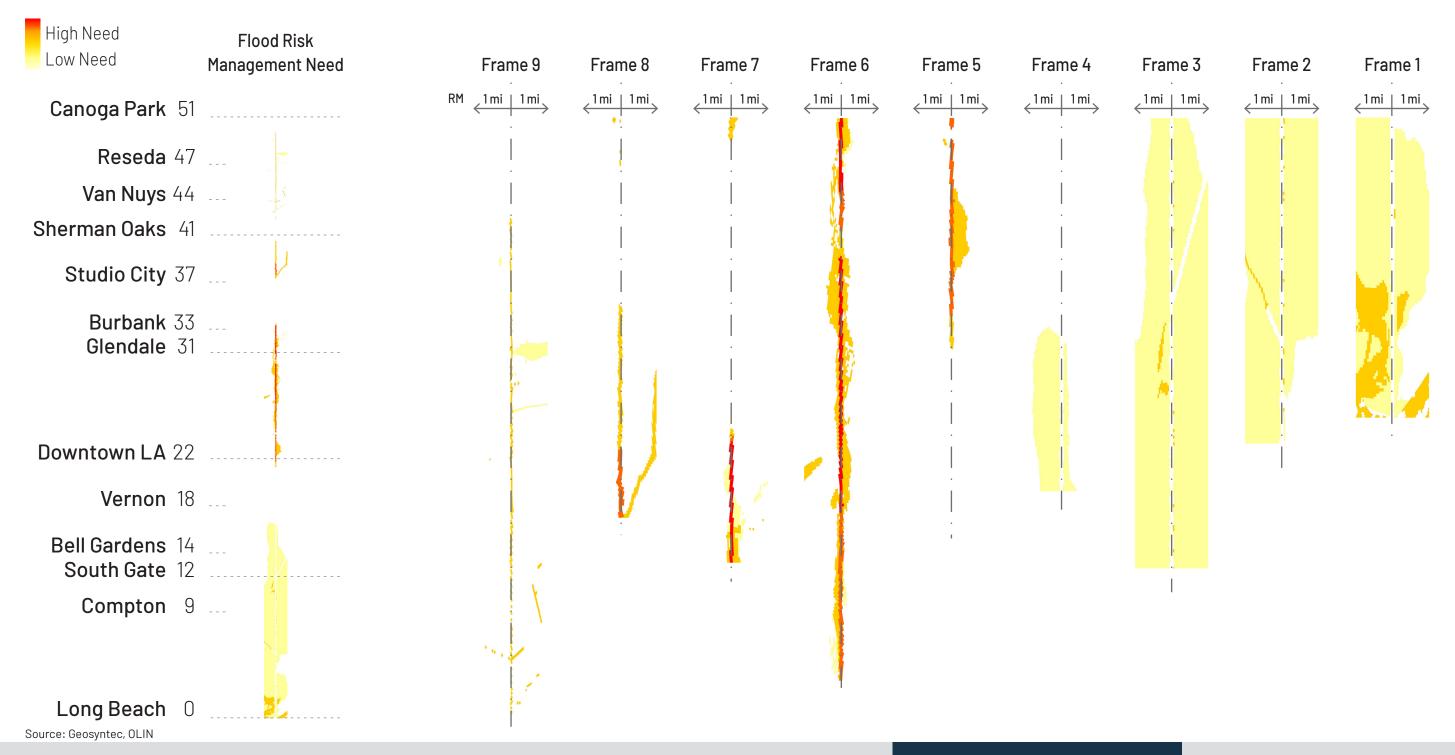


LARiverMasterPlan.org

APPENDIX



FLOOD RISK MANAGEMENT NEED

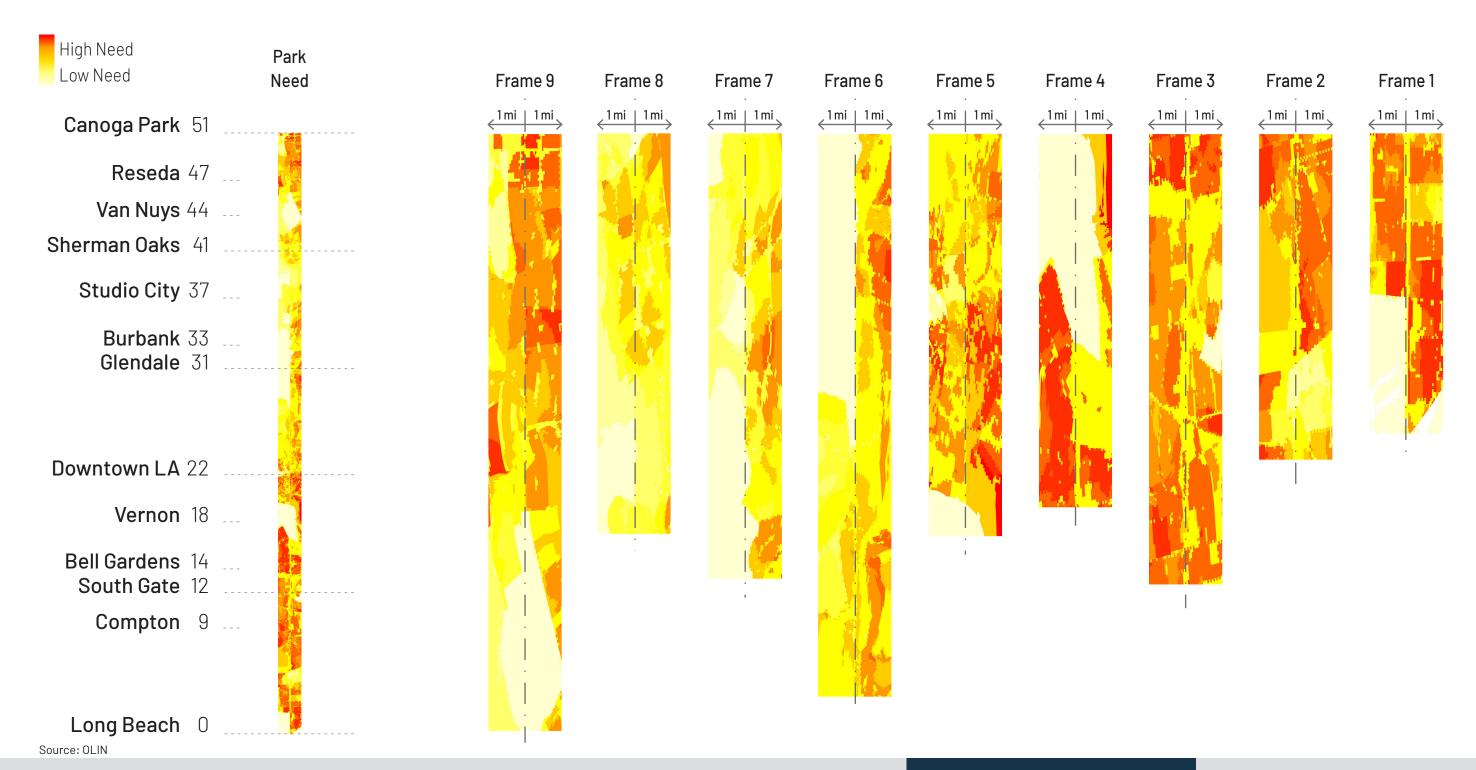


WELCOME

ENGAGEMENT UPDATE

NEEDS ANALYSIS

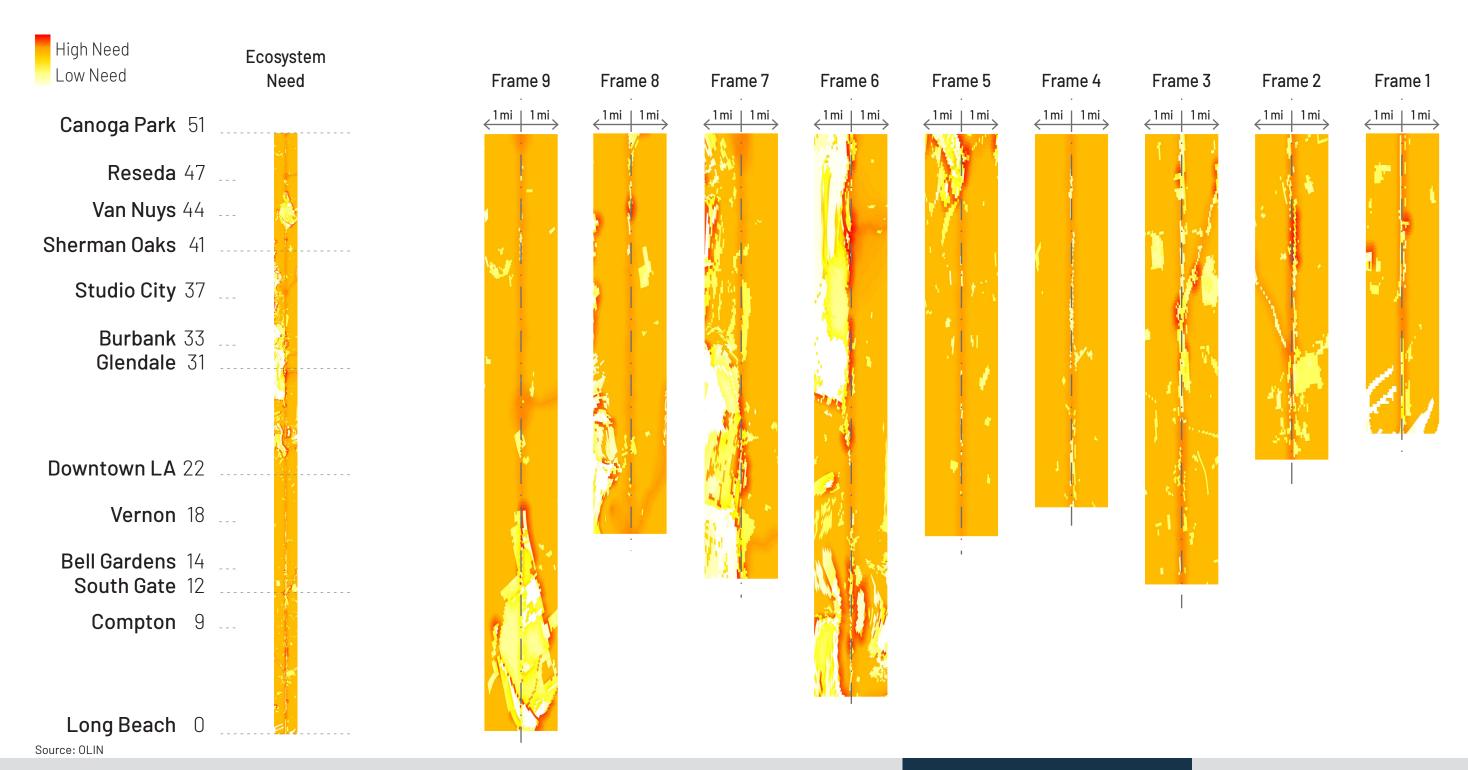
PARK NEED



WELCOME

ENGAGEMENT UPDATE

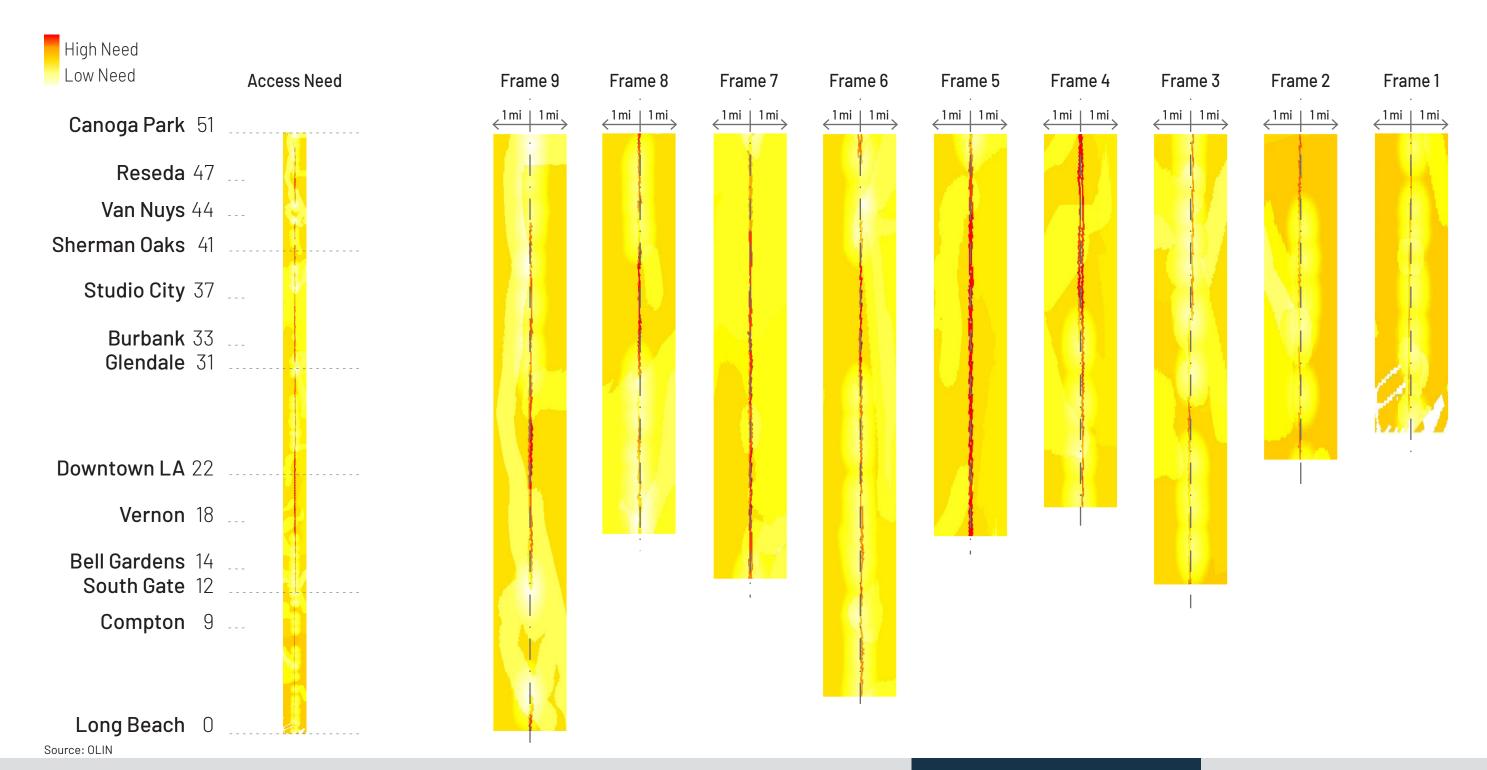
ECOSYSTEM NEED



WELCOME

NEEDS ANALYSIS

ACCESS NEED



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

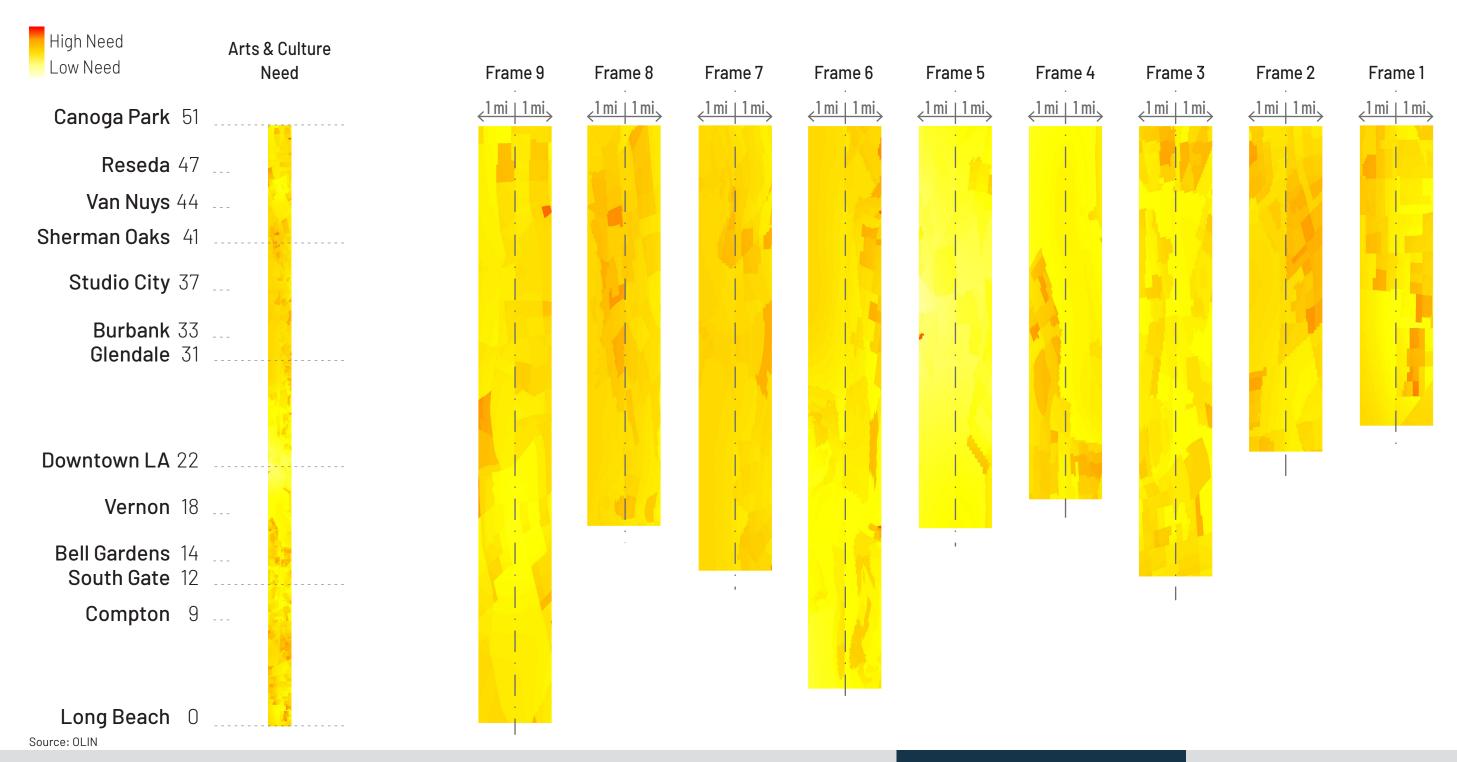
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

SLIC COMMENT

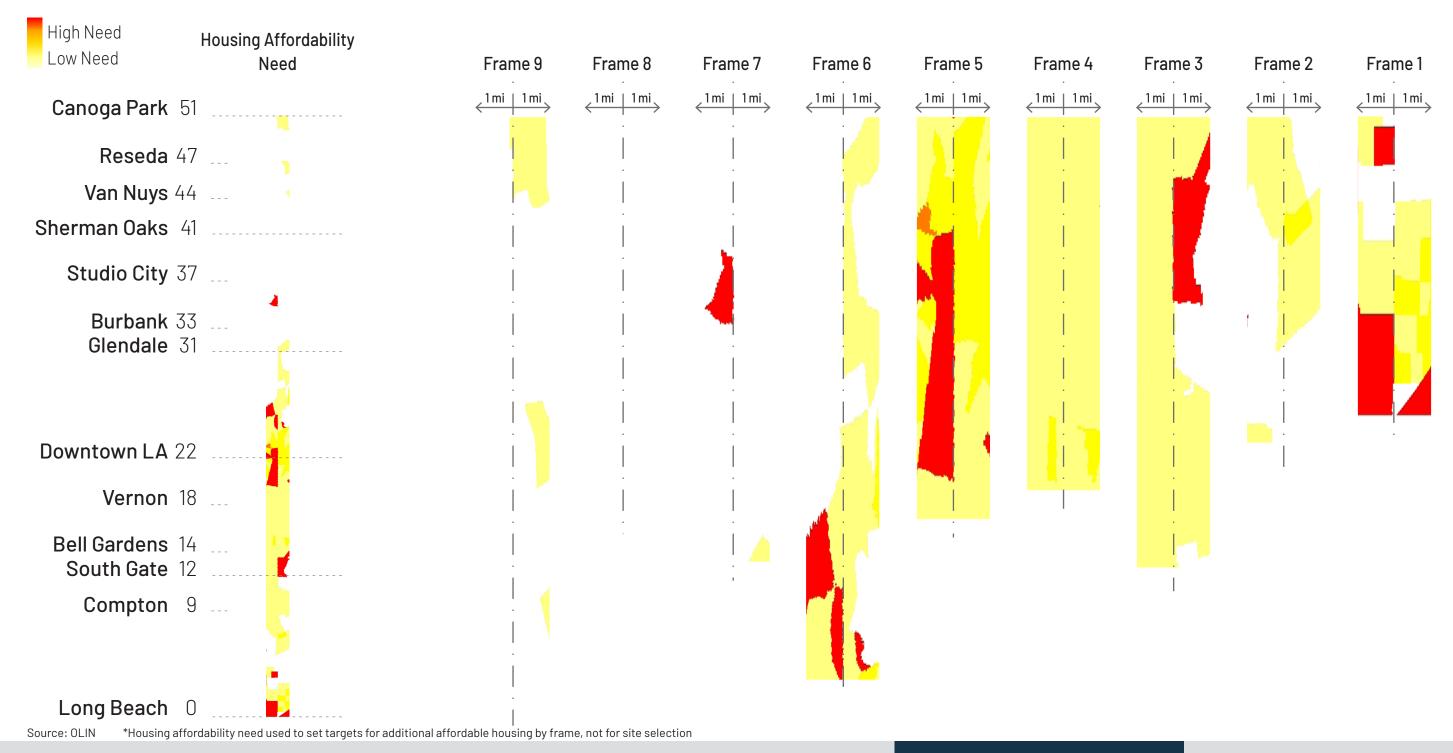
WRAP UP

ARTS & CULTURE NEED



WELCOME

HOUSING AFFORDABILITY NEED

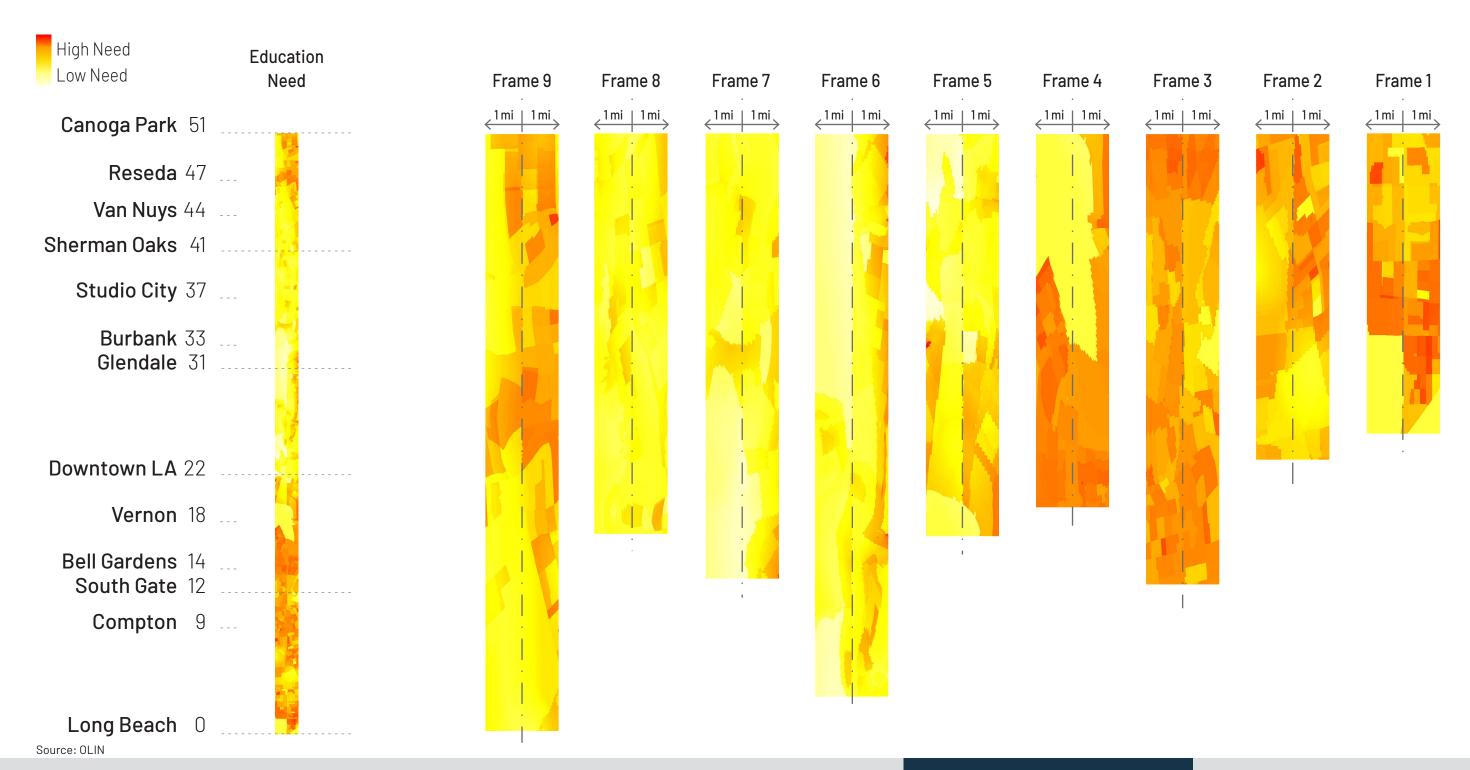


WELCOME

ENGAGEMENT UPDATE

NEEDS ANALYSIS

EDUCATION NEED



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

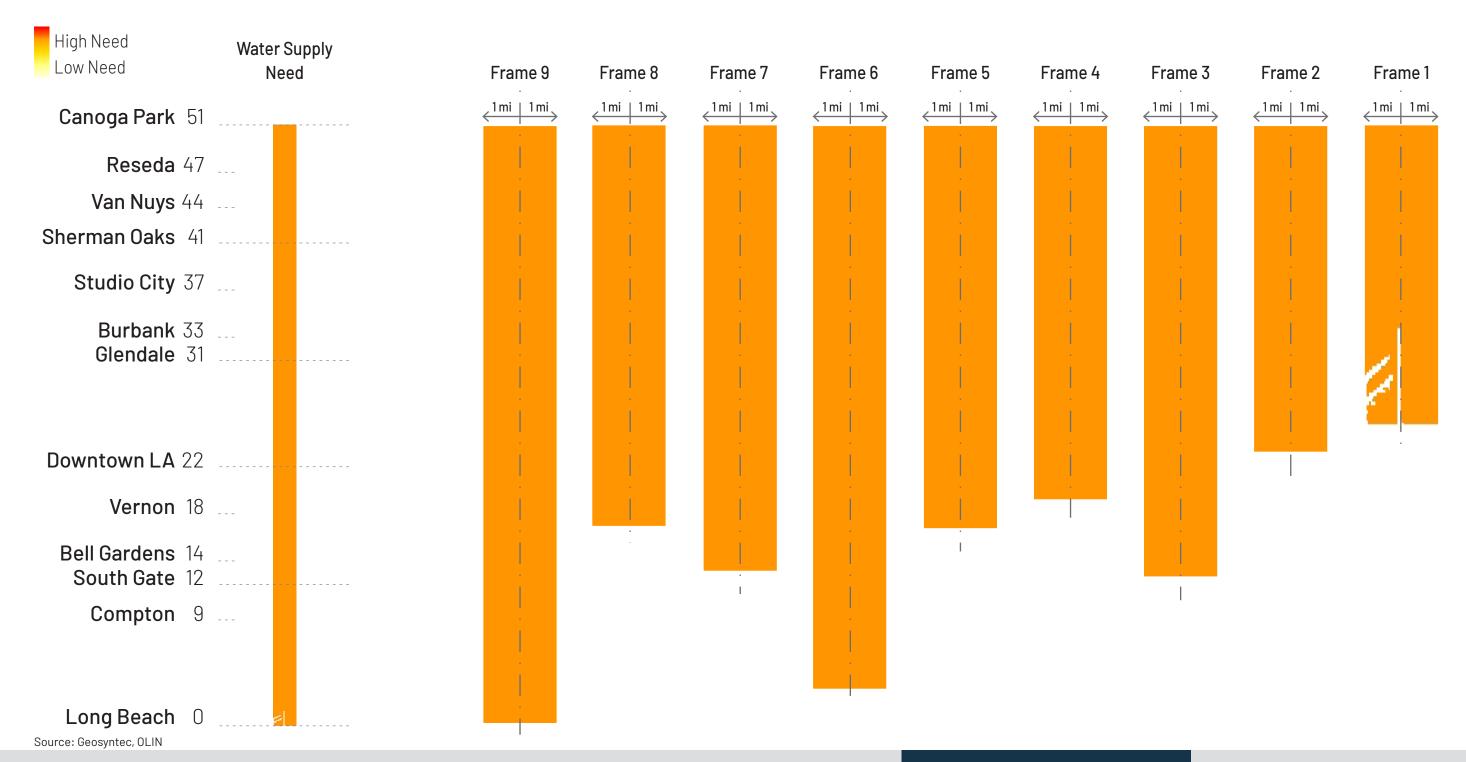
GOAL-DRIVEN FRAMEWORK

BLIC COMMENT

WRAP U

NEEDS ANALYSIS

WATER SUPPLY NEED



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

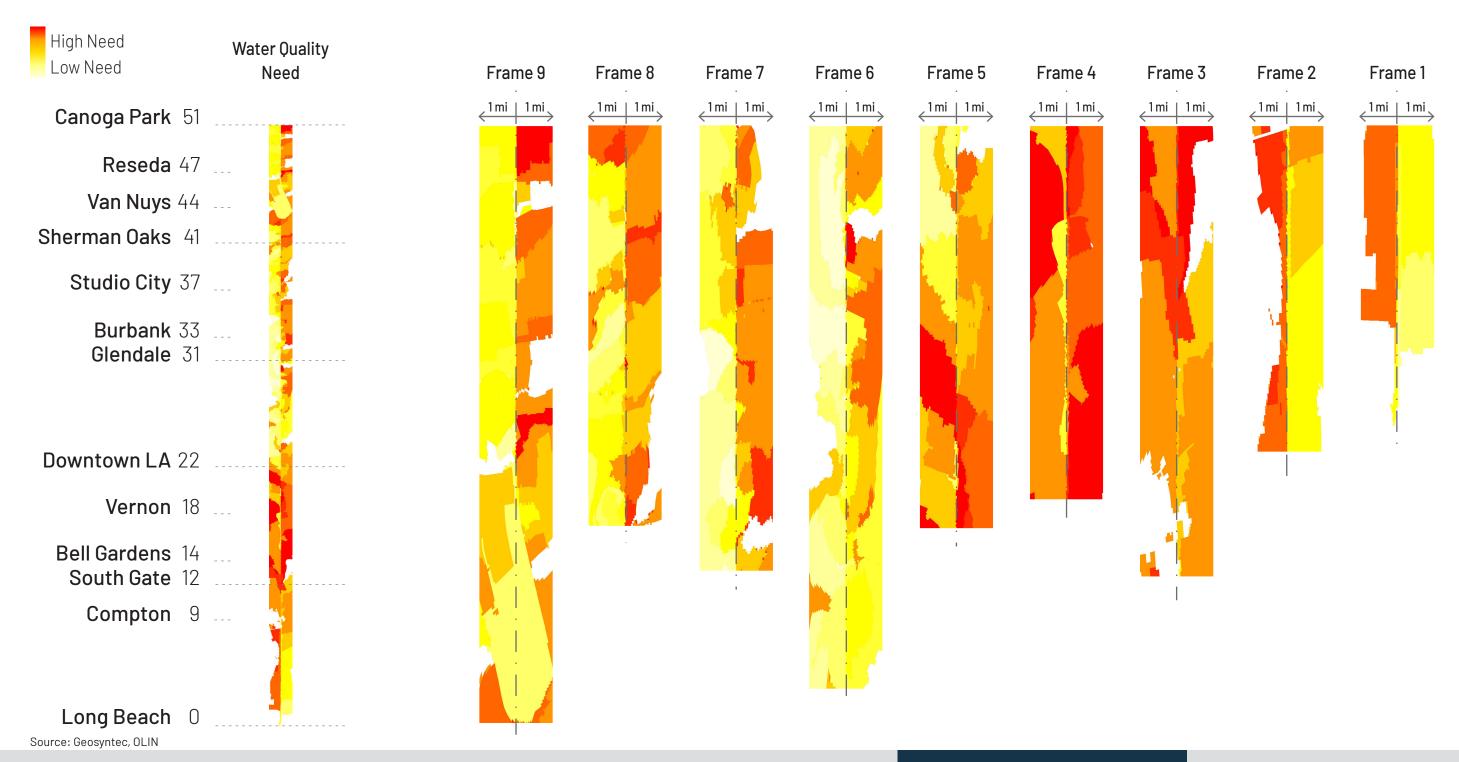
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

BLIC COMMENT

WRAP UI

WATER QUALITY NEED



WELCOME

ENGAGEMENT UPDATE

OPPORTUNITY: 450 POTENTIAL SITES

Potential Opportunity Sites within 1 mile of the LA River (Includes LA River ROW)

LA RIVER ROW	LOS ANGELES COUNTY OWNED	PUBLICLY OWNED (VACANT / UNDERUTILIZED)	PRIVATELY OWNED RIGHT-OF-WAY	PRIVATELY OWNED (VACANT)
↓	1	1	↓	1
117	150	65	56	58

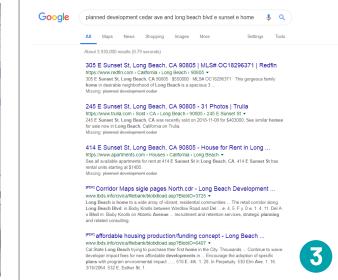
^{*} Privately owned underutilized parcels excluded

DESKTOP ANALYSIS

Is there recent construction on the site?
Is there apparent contamination (Superfund or Brownfield designation)?
Is there known hazardous waste?
Are there development plans for the site?





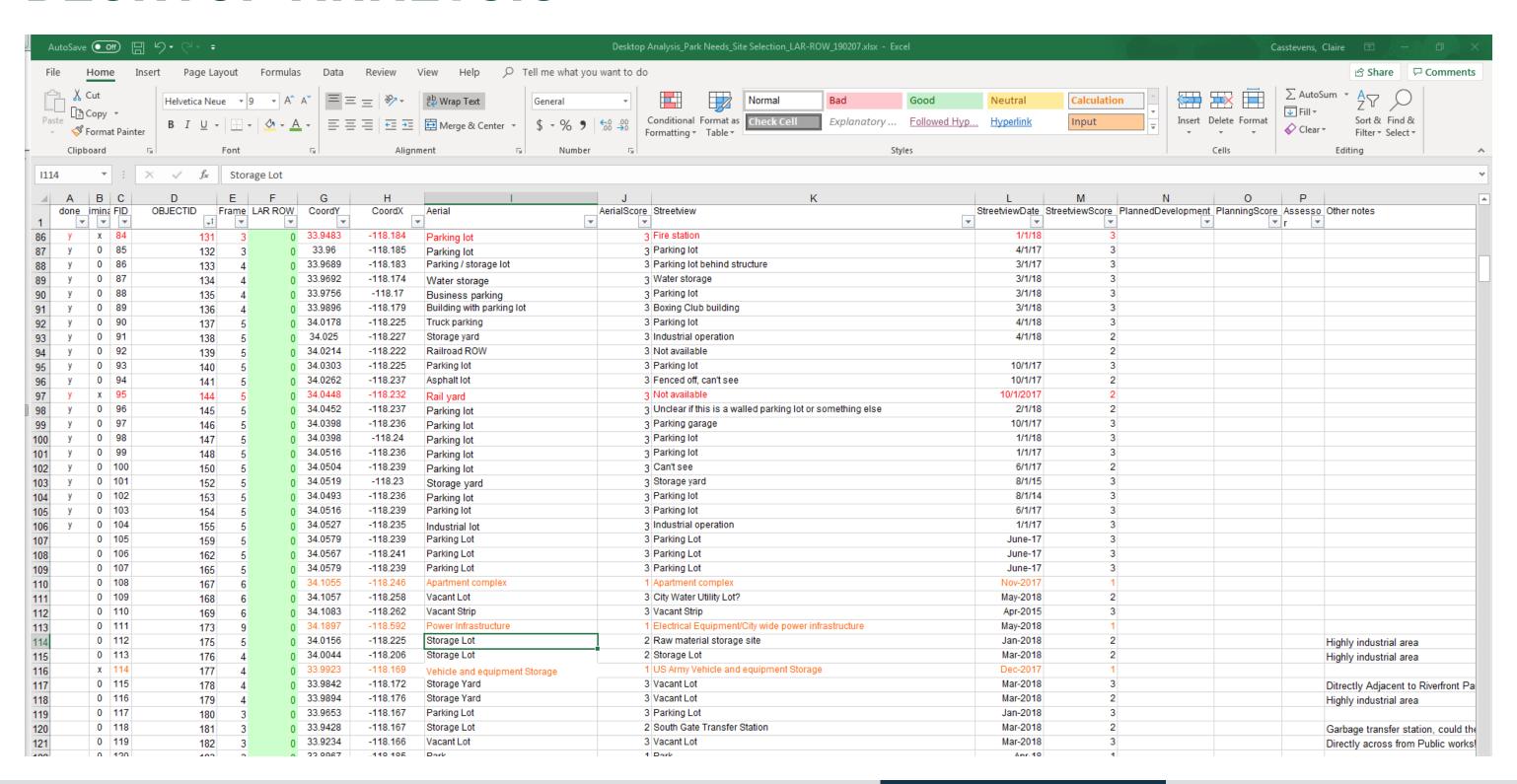


Google Earth Aerial

Google Street View

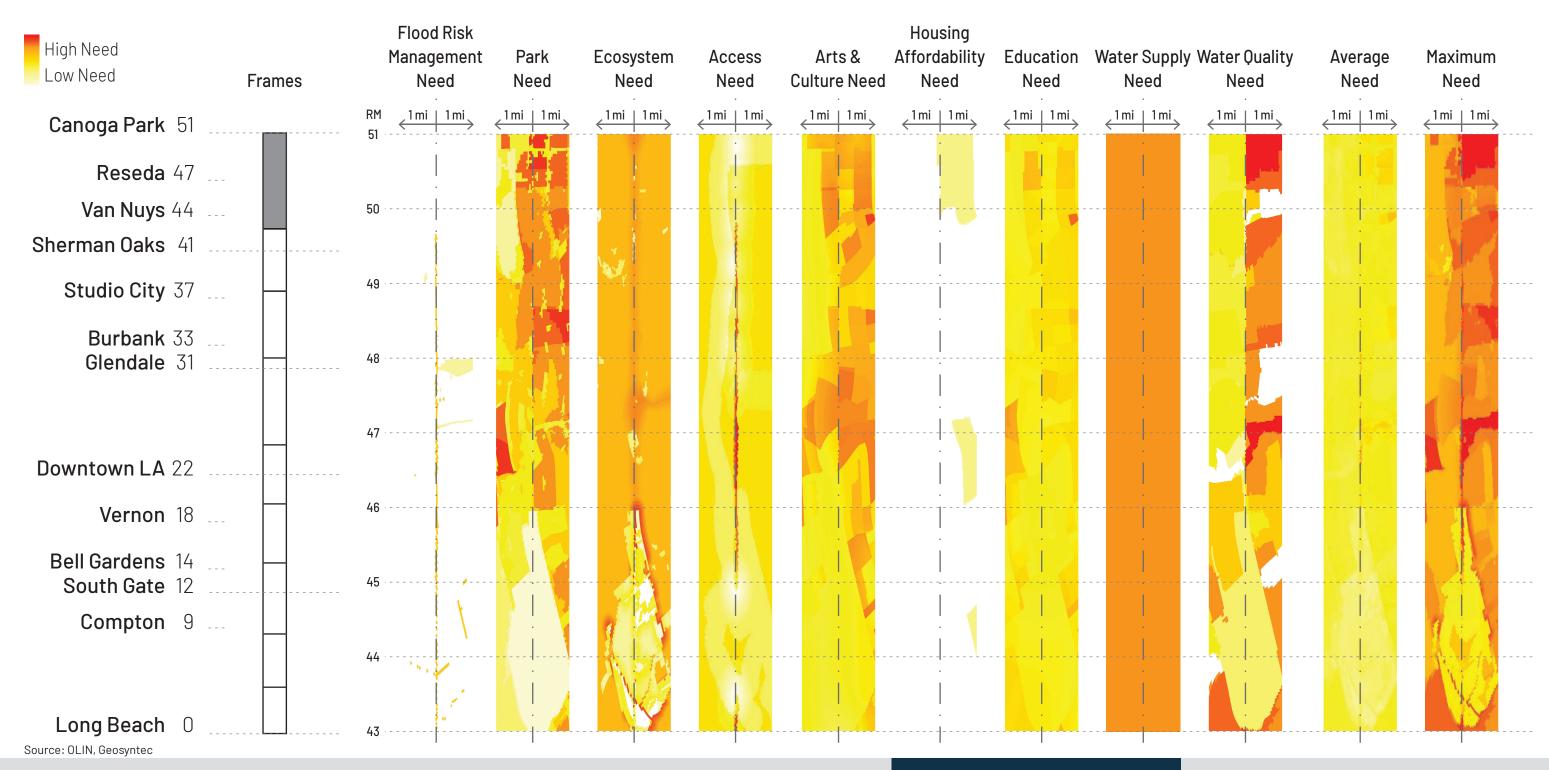
Online Search

DESKTOP ANALYSIS



WELCOME ENGA

FRAME 9 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPOR

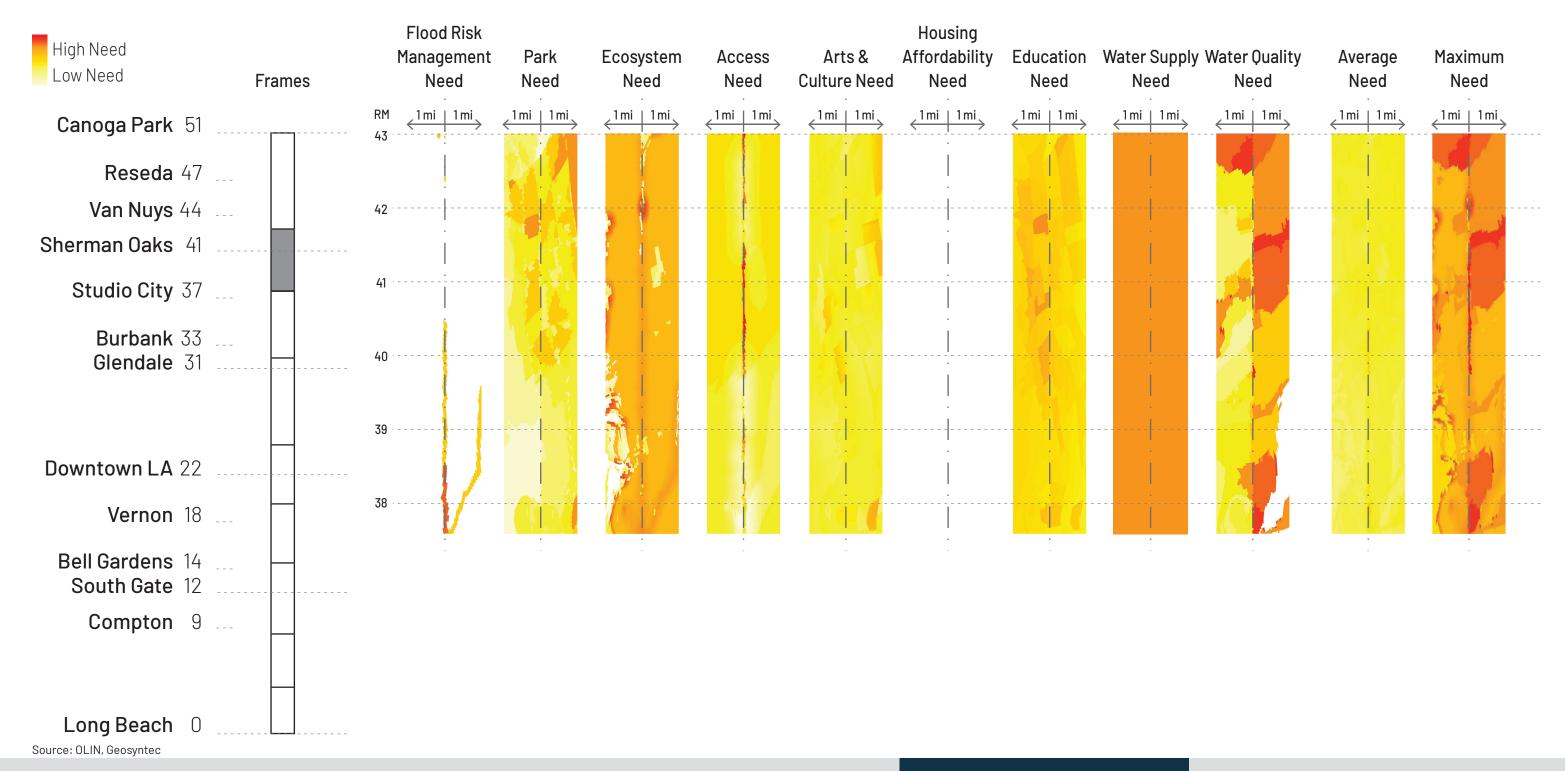
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

BLIC COMMENT

WRAP U

FRAME 8 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

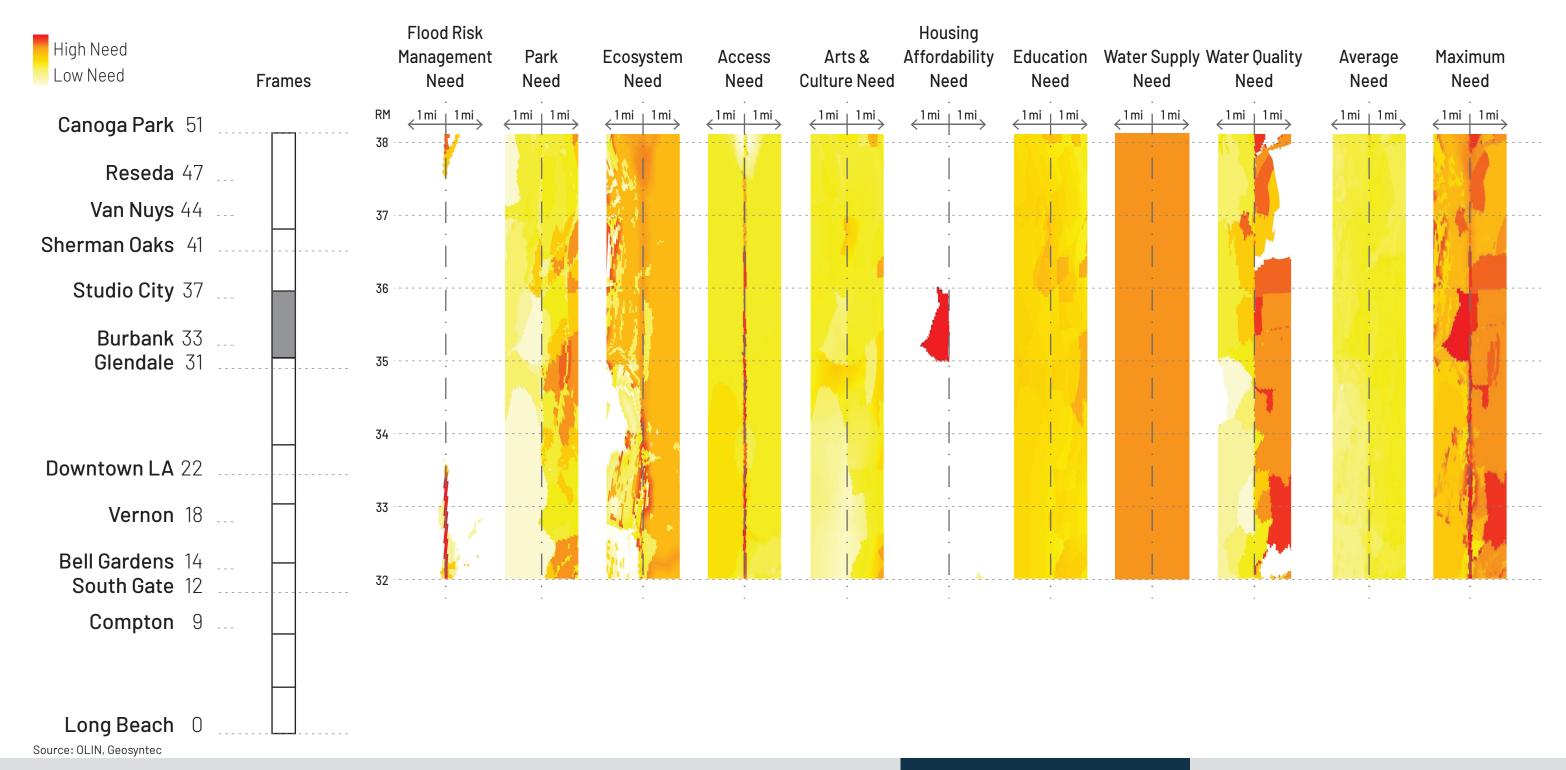
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

UBLIC COMMENT

WRAP UI

FRAME 7 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

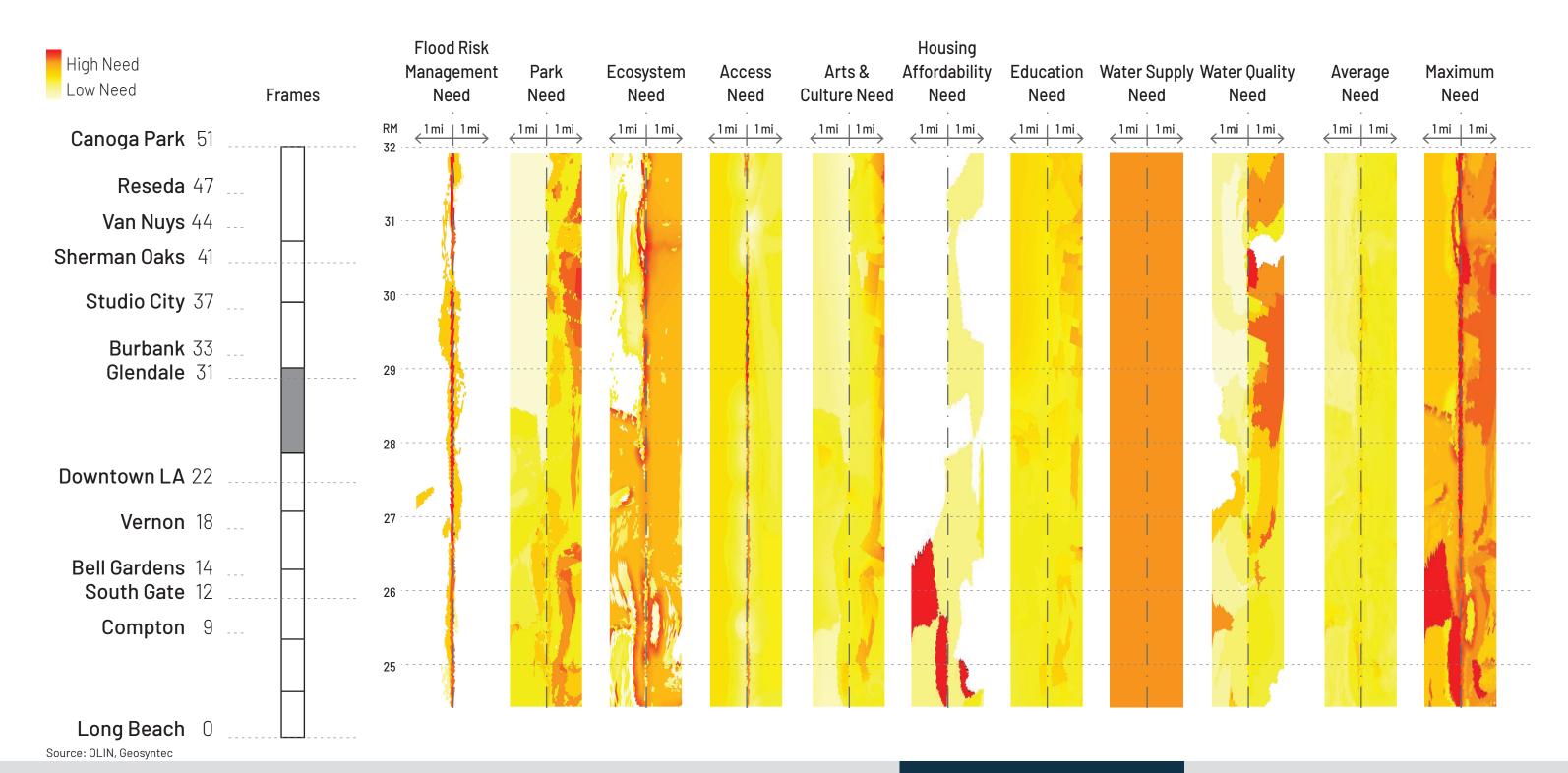
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP U

FRAME 6 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

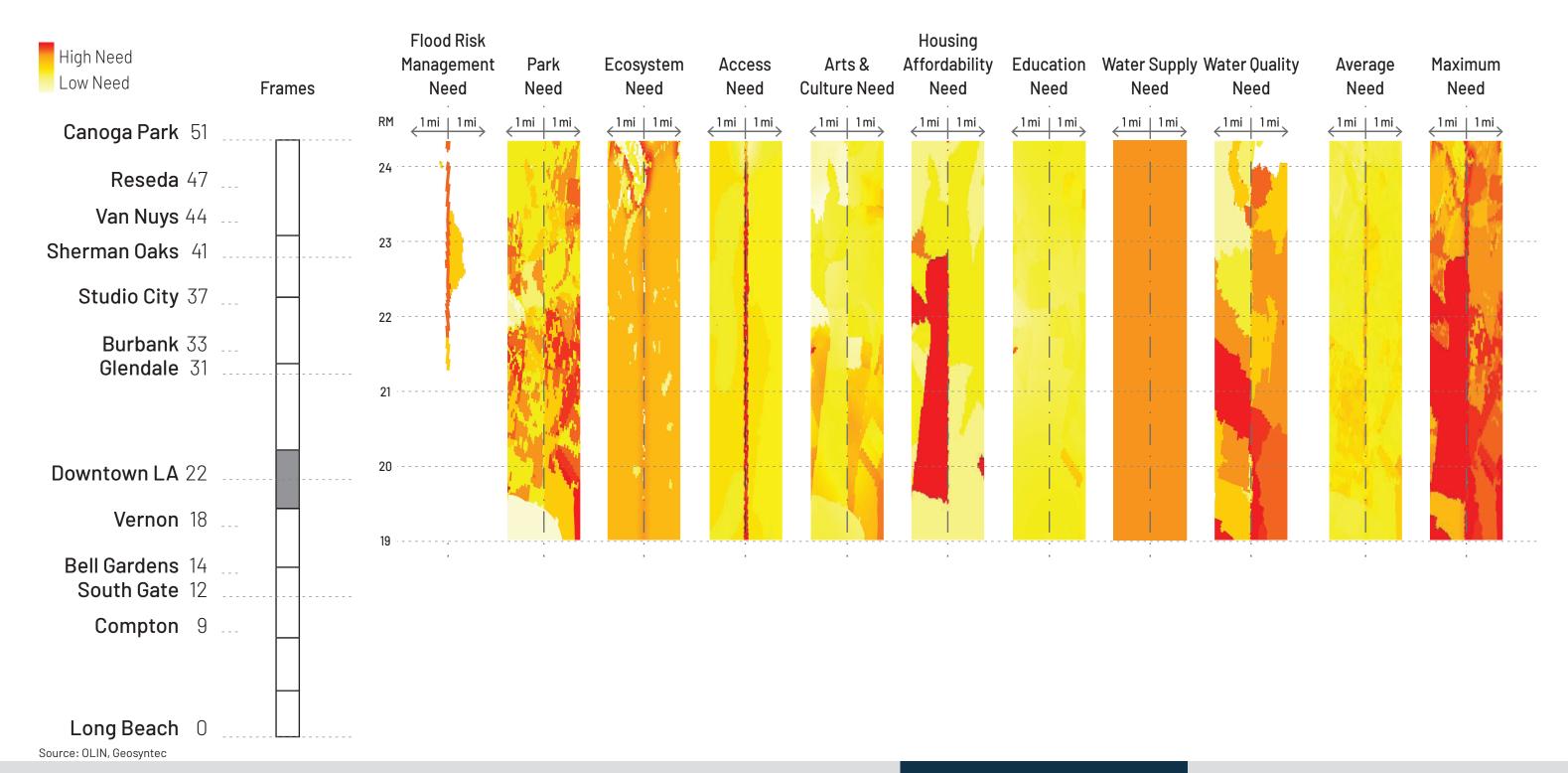
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

UBLIC COMMENT

WRAP U

FRAME 5 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

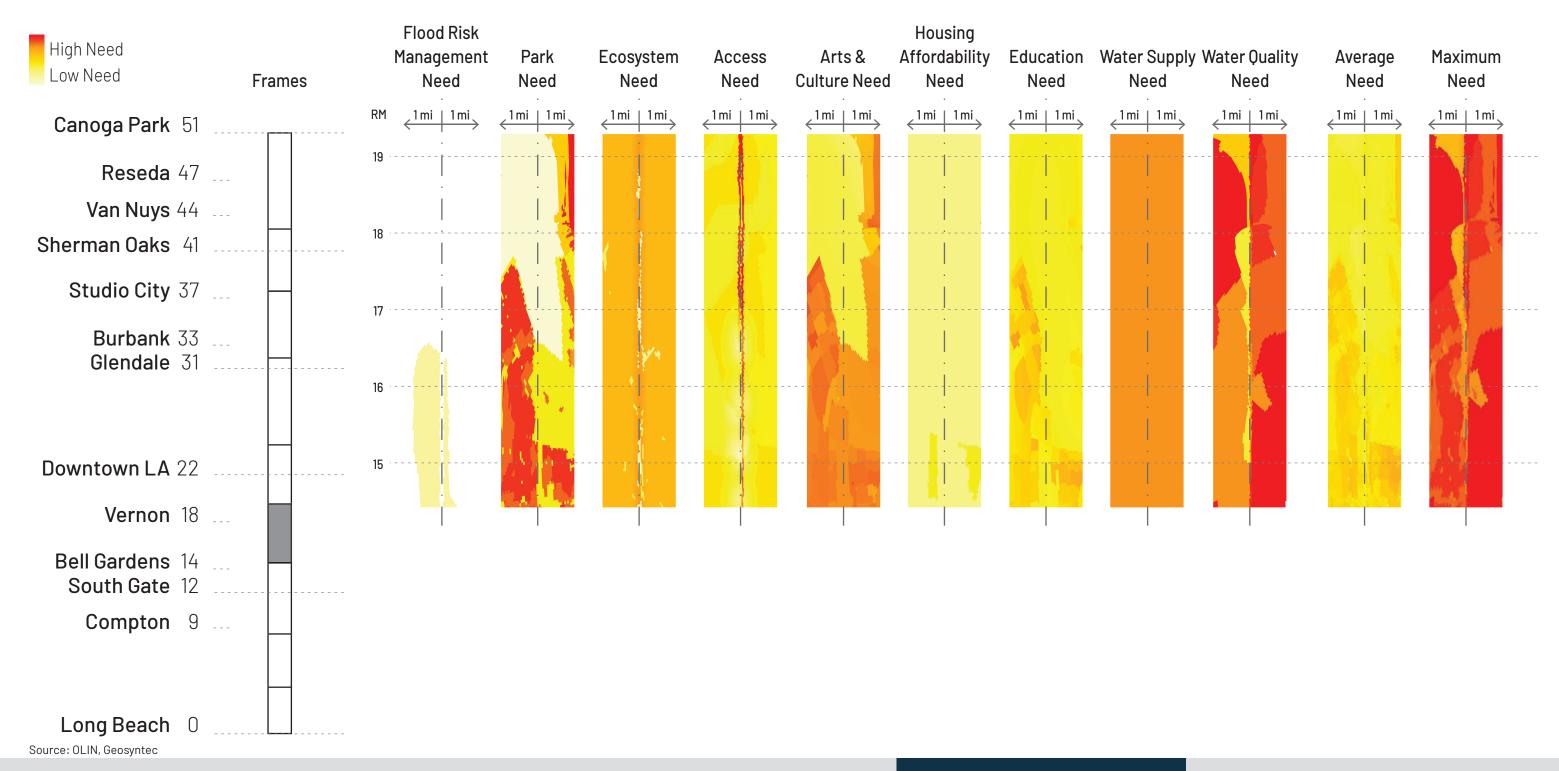
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UF

FRAME 4 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

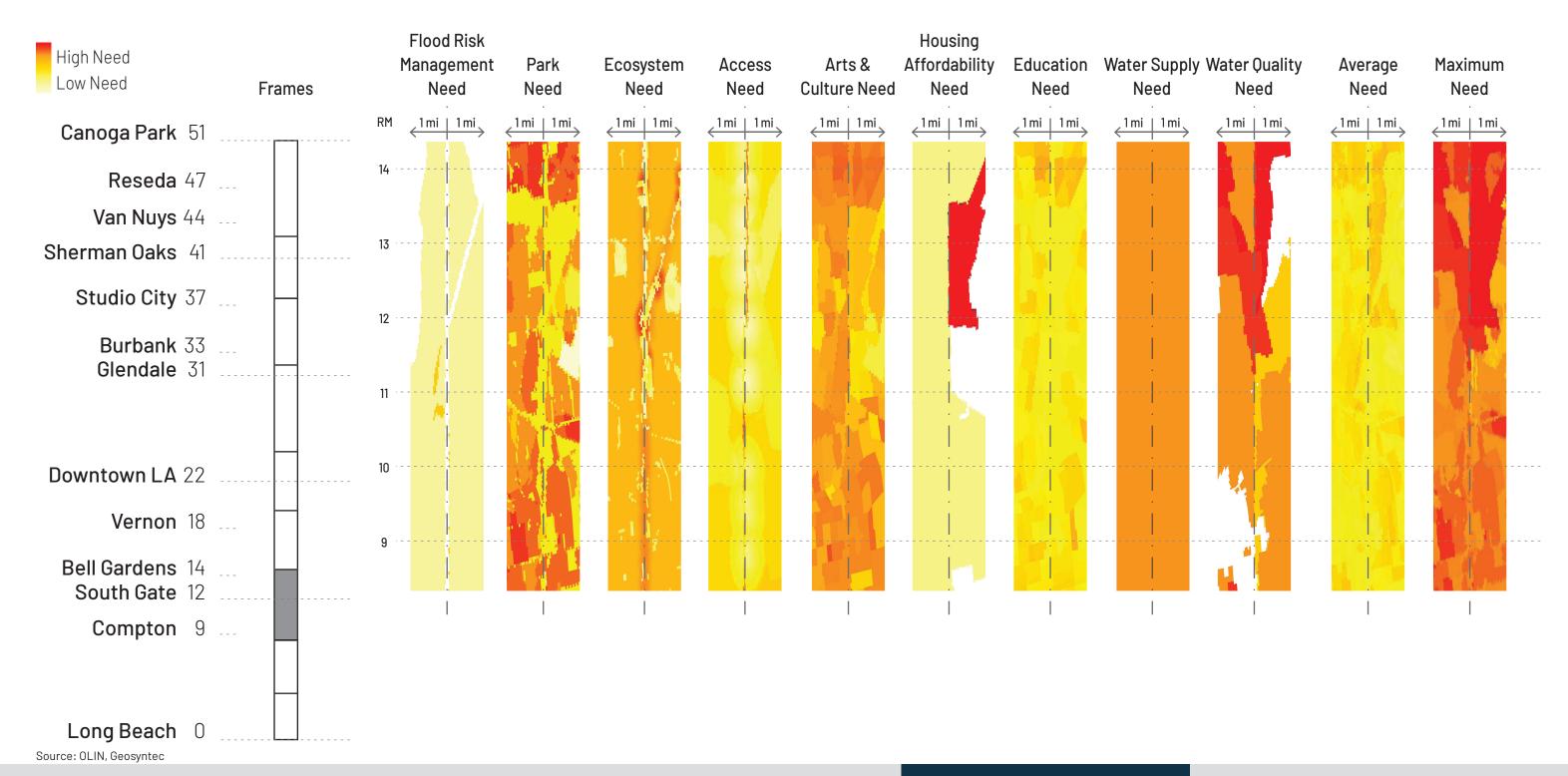
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

UBLIC COMMENT

WRAP U

FRAME 3 NEEDS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

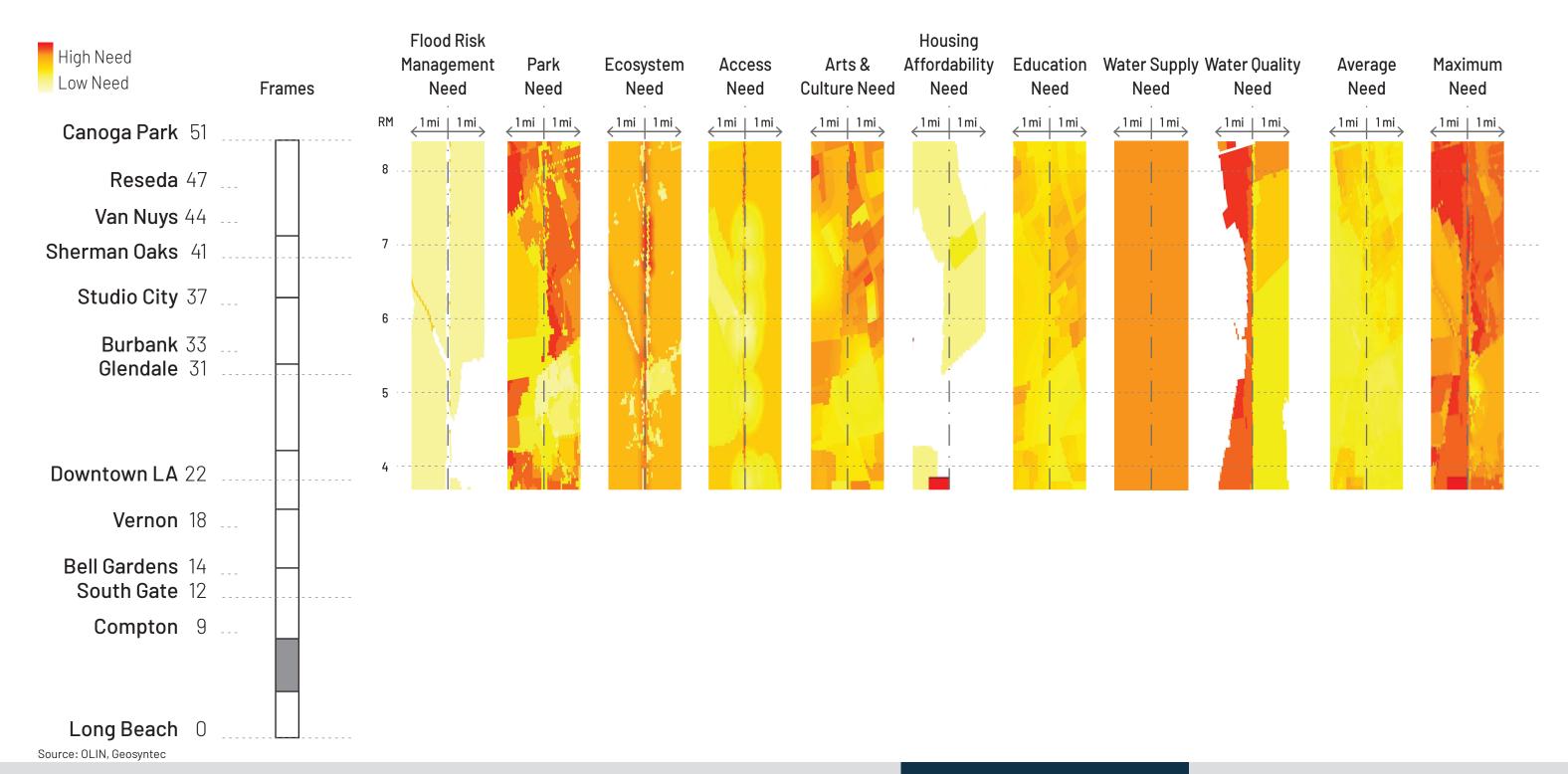
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UI

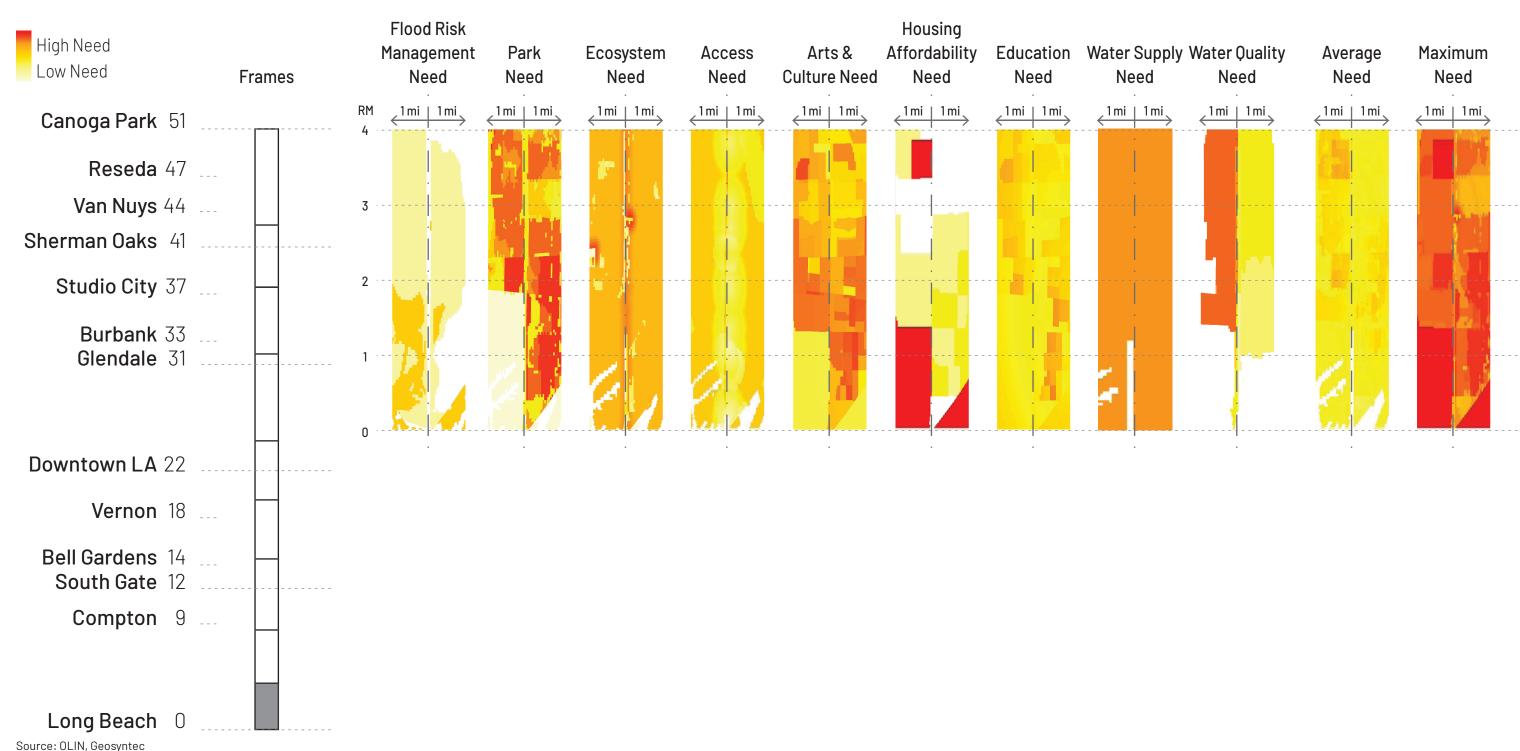
FRAME 2 NEEDS



WELCOME

ENGAGEMENT UPDATE

FRAME 1 NEEDS



KIT OF PARTS FRAMEWORK



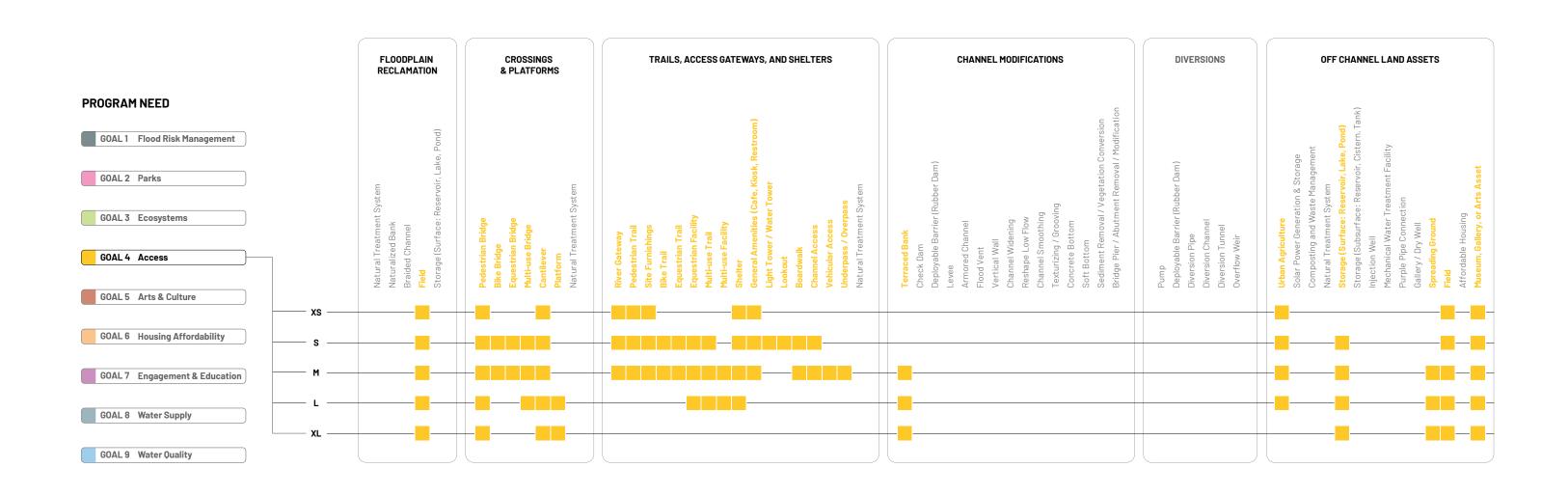
KIT OF PARTS FRAMEWORK



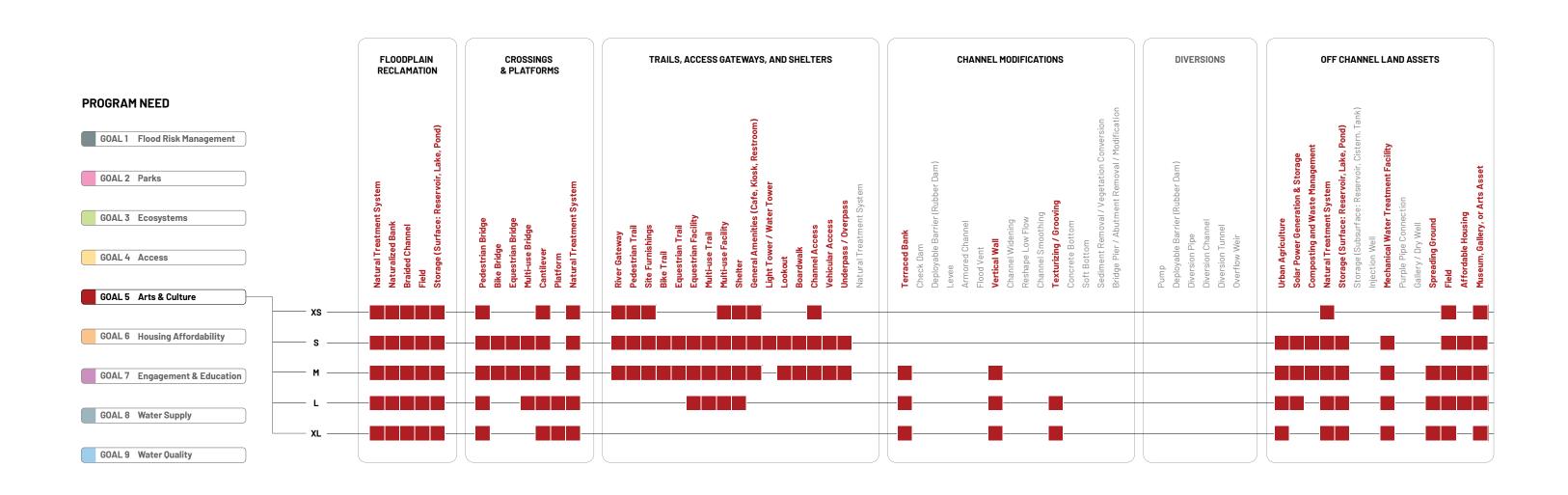
KIT OF PARTS FRAMEWORK



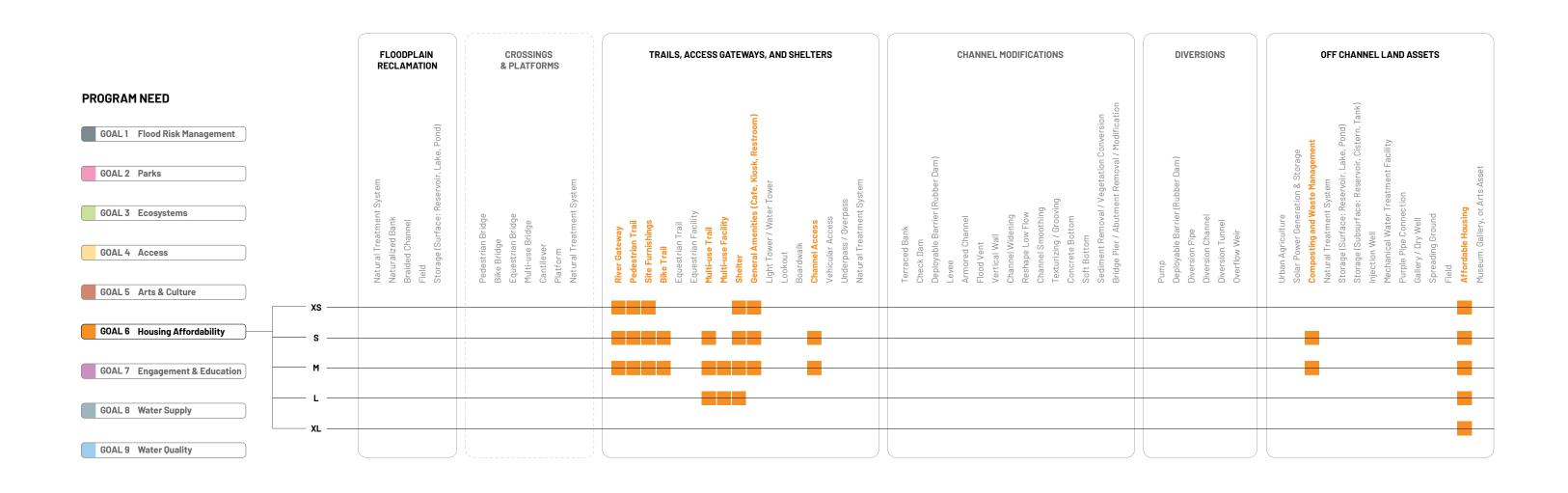
KIT OF PARTS FRAMEWORK



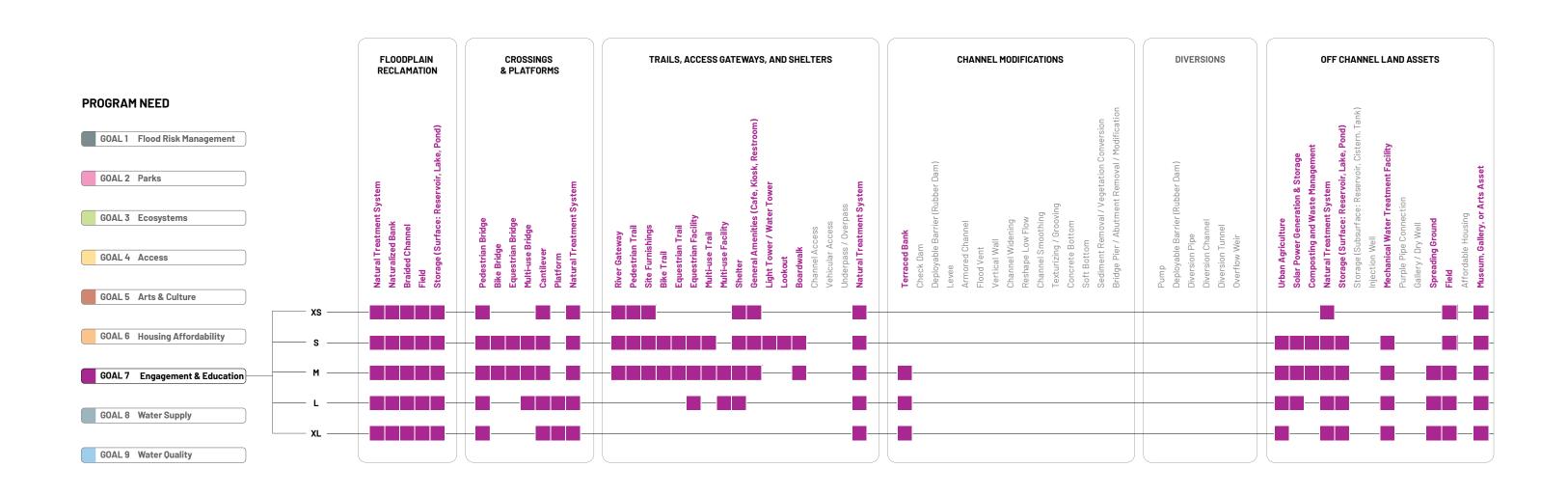
KIT OF PARTS FRAMEWORK



KIT OF PARTS FRAMEWORK



KIT OF PARTS FRAMEWORK



KIT OF PARTS FRAMEWORK



KIT OF PARTS FRAMEWORK

