

Housekeeping and Logistics

2-hour workshop
We will ask for input twice during the workshop
using mentimeter.com

Q&A discussion toward the end of meeting
Add to zoom chat
Spanish translation is provided
The slides and our answers to questions received
during Q&A will be posted.



Community Norms



- Stay present as much as possible
- Ask questions
- Be solutions oriented

Agenda

Mentimeter

- 1) Overview of the Metrics and Monitoring Study (MMS or Study)
- 2) Regional Program Municipal Benefits
- 3) Municipal Program Reporting / Improving Metrics
- 4) Question and Answer
- 5) Wrap up and Goodbye



Municipal Stakeholder Workshop

For the Metrics & Monitoring Study of the Safe, Clean Water Program May 23, 2023





Safe, Clean Water Program Goals Part 1 of 2 Mentineter

- Improve water quality
- Increase drought preparedness through stormwater capture
- Improve public health
- Invest in multi-benefit infrastructure

- Prioritize nature-based solutions
- Provide disadvantaged community benefits
- Leverage other funding



Safe, Clean Water Program Goals Part 2 of 2 Mentimeter

- Provide a spectrum of project sizes
- Encourage innovation
- Invest in independent scientific research
- Provide proportional funding

- Ensure adaptive management
- Promote green jobs
- Provide ongoing operations and maintenance of projects



The Goal of the MMS is to:

Develop program methods, metrics and monitoring criteria to inform tracking, planning, reporting and decision making within specific areas of the SCWP



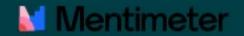
Overview of the MMS



- Is a stakeholder driven process
- Will help inform the adaptive management process



Overview of the MMS







What is a metric?

A metric is a <u>measurement</u> of the state of something, or of a trend over time or space.

An indicator is one or many metrics that together are taken to <u>represent</u> the status or trend of something.

Metrics --> Relative Humidity, Temperature, Wind Speed, Wind Direction Indicator --> Percent Chance of Rain Application --> Do I need an umbrella today?

Metrics --> Tire pressure in pounds per square inch (PSI) Indicator --> Dashboard tire pressure warning light Application --> I may need to add air to the tires.



Existing Evaluation Metrics

101

Approved and recommended
Infrastructure Program
Projects representing over

\$1.2 billion

in investments through
FY26-27
(\$670M of SCWP
Regional Program
dollars)

Capture stormwater from over

222,000 acres

Leverage other funding nearing

\$542M

Provide an increase in total 24-hr storage capacity of

4,070 **AF**

Investments benefitting disadvantaged communities

\$343M

Provide an increase in annual average stormwater capture of

56,915 **AF**

Are being implemented across

47 Municipalities



Municipal Focus Topics

REGIONAL PROGRAM

Municipal Benefits

MUNICIPAL PROGRAM
Reporting & Tracking

Regional Program: Municipal Benefits

LA County Flood Control District Code Section 16.05.D.1.e.

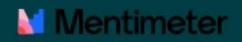
"[The Regional Program within the Infrastructure Program]

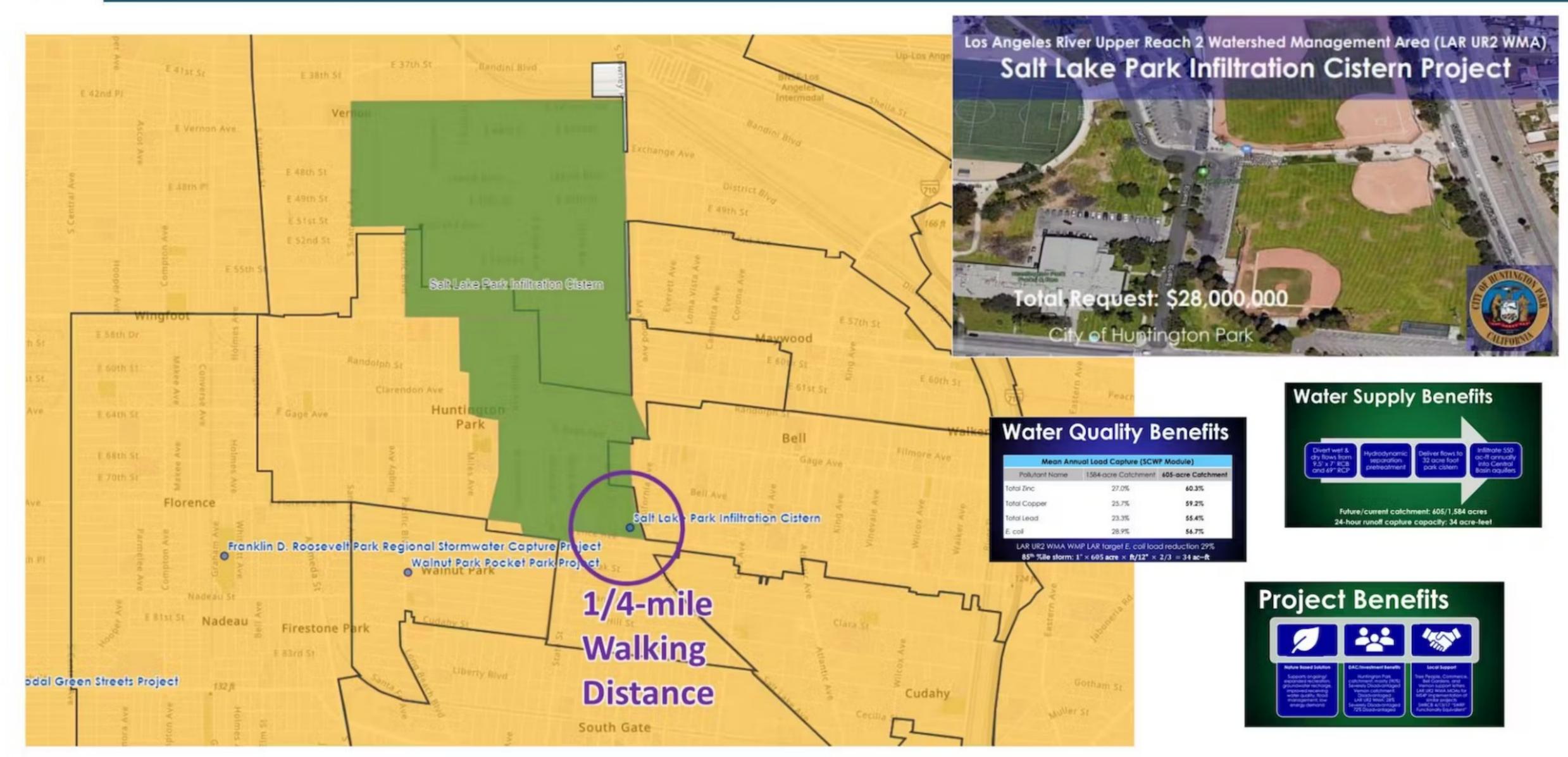
Shall be programmed, to the extent feasible, such that each Municipality receives benefits in proportion to the funds generated within their jurisdiction, after accounting for allocation of the one hundred ten percent (110%) return to [disadvantaged communities]"

Refresher: Water Quality, Water Supply, and Community Investment Benefits



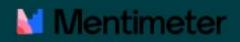
Tributary Areas & Regional Benefits

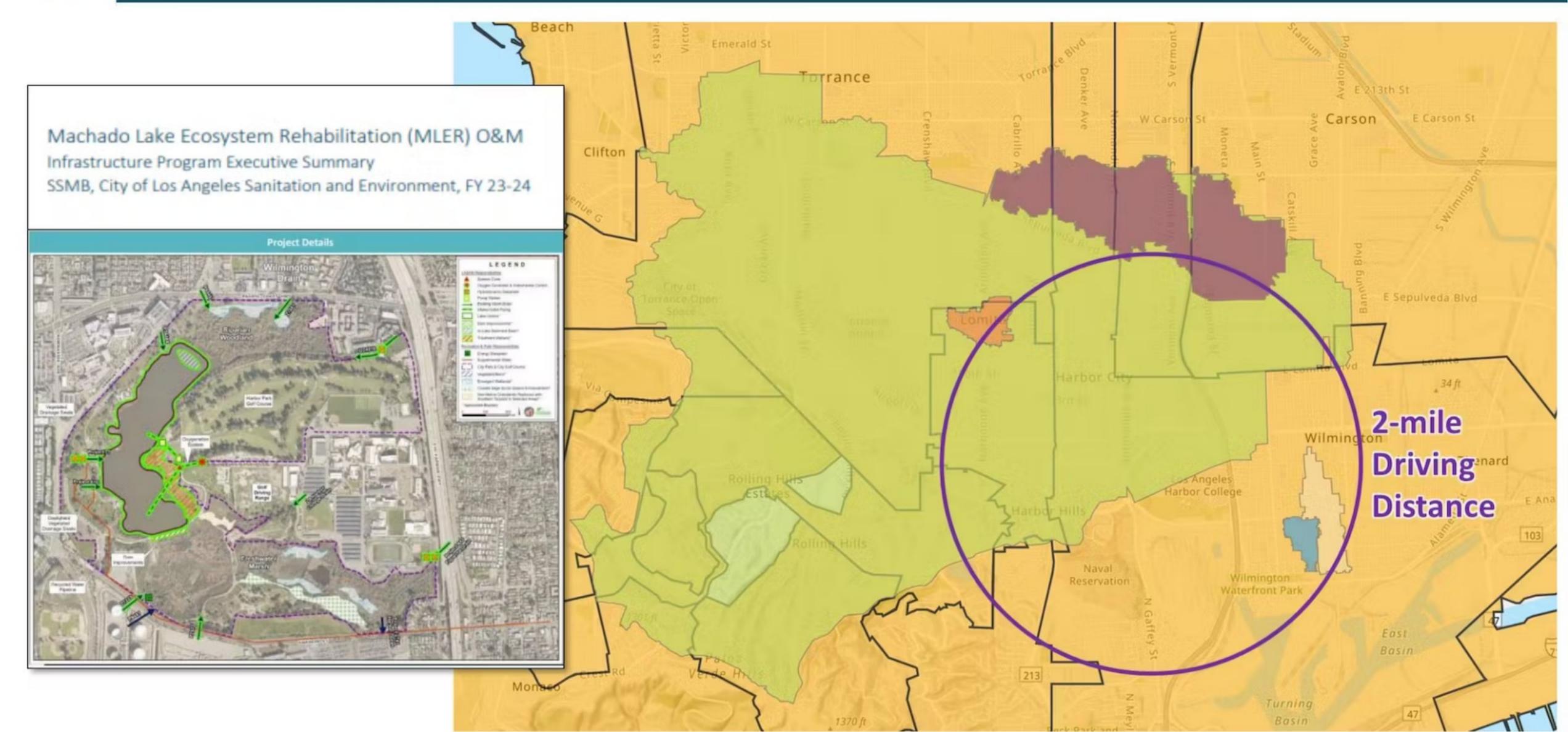






Tributary Areas & Regional Benefits



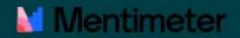


Polls - Round 1 Projects outside your city or WMG

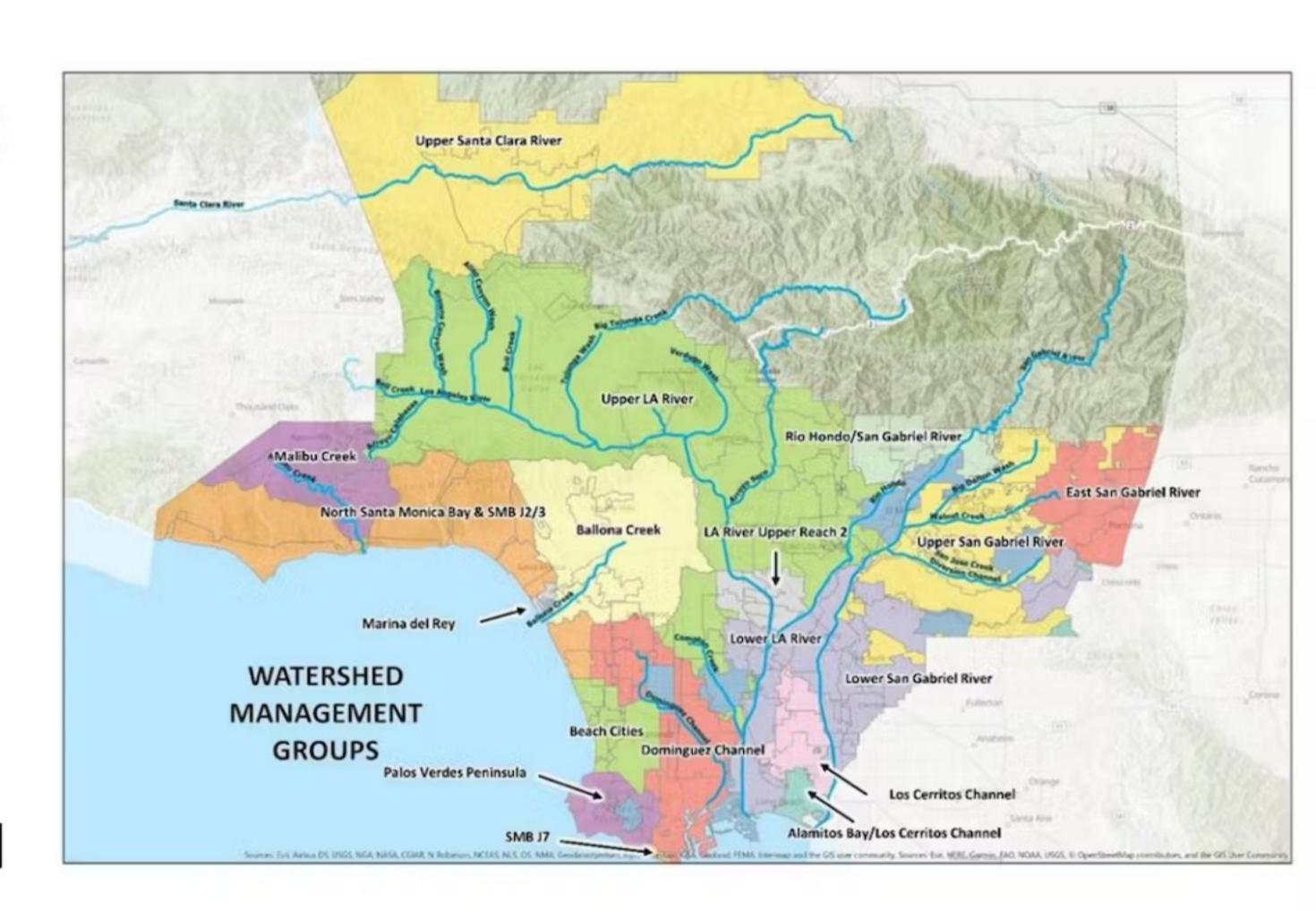




MMS Team Ideas: Water Quality Benefits



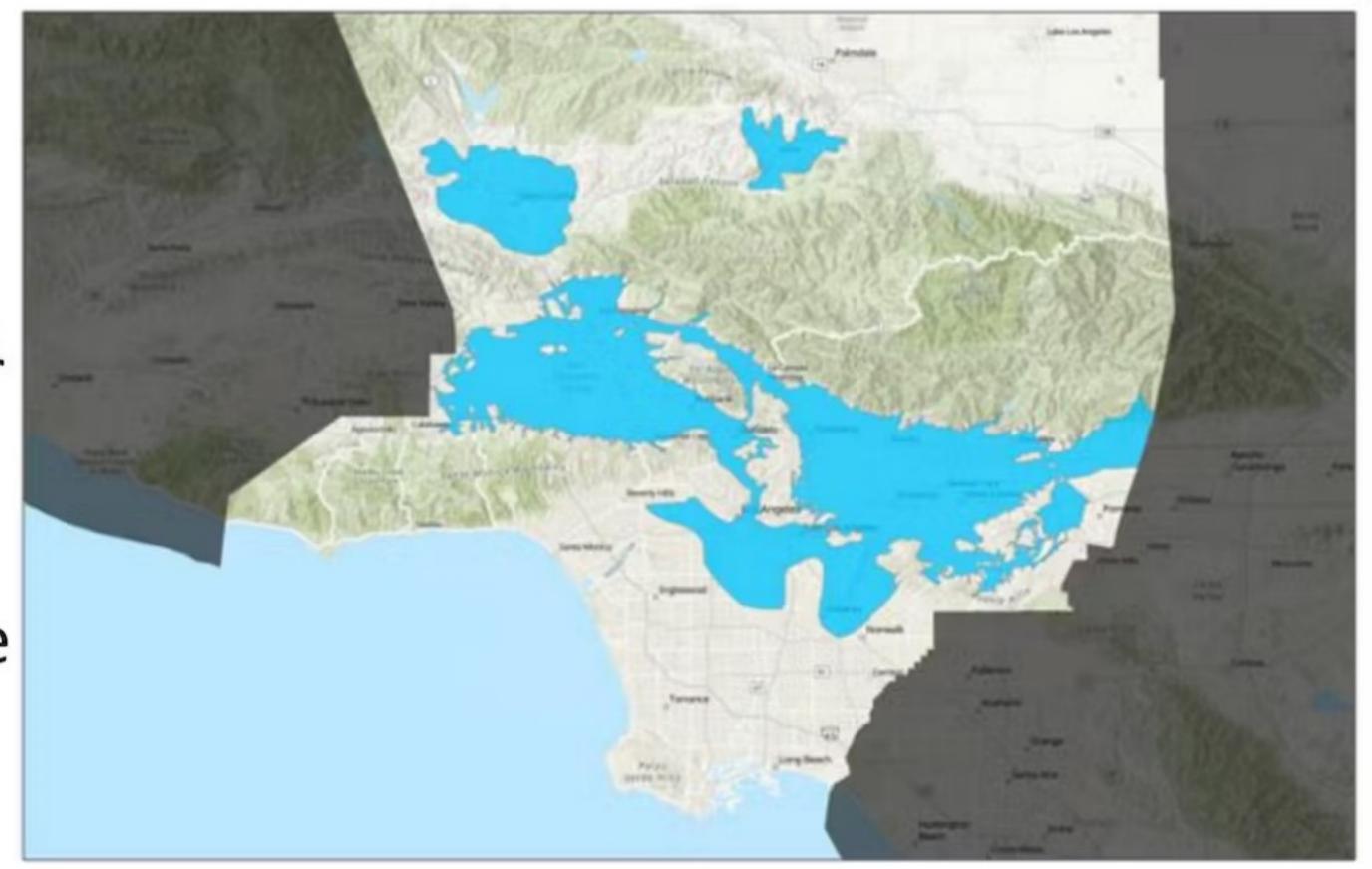
- Each Watershed Management Program (WMP) has unique water quality metrics
- MMS is exploring metrics that align with WMPs but can be compared across each SCW Program Watershed Area
 - E.g., heavy metals reduction by SCWP-funded projects in each Watershed Management Area





MMS Team Ideas: Water Supply Benefits

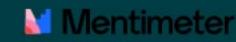
- Water supply benefits may apply regionally and/or at groundwaterbasin-scale
- MMS is evaluating potential Water Supply Benefits based on fate of potential capture at Watershed Area- and groundwater basin-scale



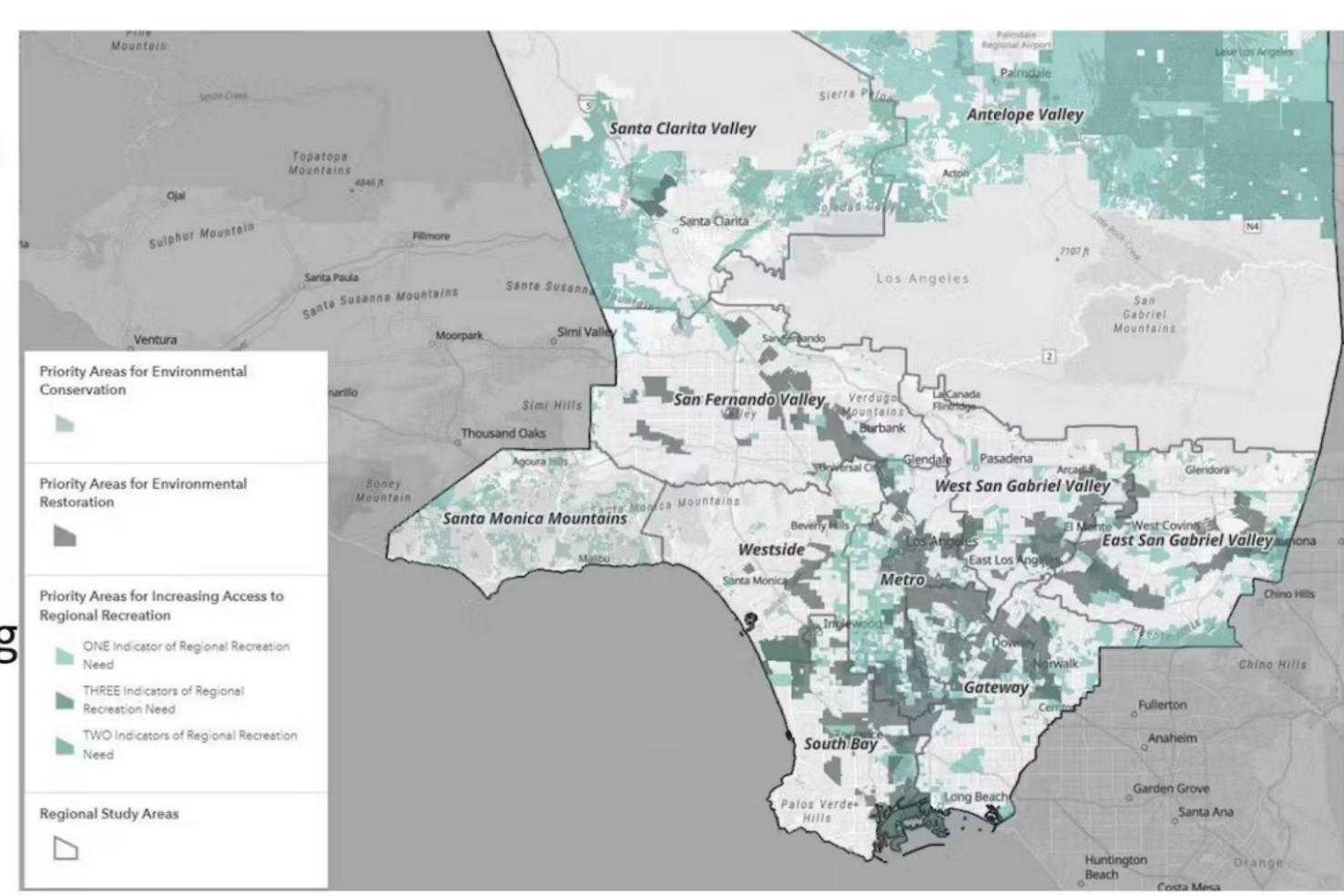
MMS not addressing water rights or effective delivery of water to aquifers – reference ongoing study by Flood Control District and Bureau of Reclamation



MMS Team Ideas: Community Investment Benefits



- MMS is recommending development of a "living database of community voice"
- Database used to verify what Community Investment Benefits are sought by communities
- Once known, the benefits sought can be used in metrics about accomplishments, and for planning
- Additionally, MMS testing metrics/methods to attribute benefits based on walking/driving distances





Municipal Focus Topics

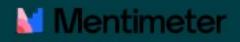
REGIONAL PROGRAM

Municipal Benefits

MUNICIPAL PROGRAM
Reporting & Tracking



Municipal Program Reporting Overview



ANNUAL PLAN

Descriptions of activities anticipated to be funded & Program Goals achieved. **No metric data.**

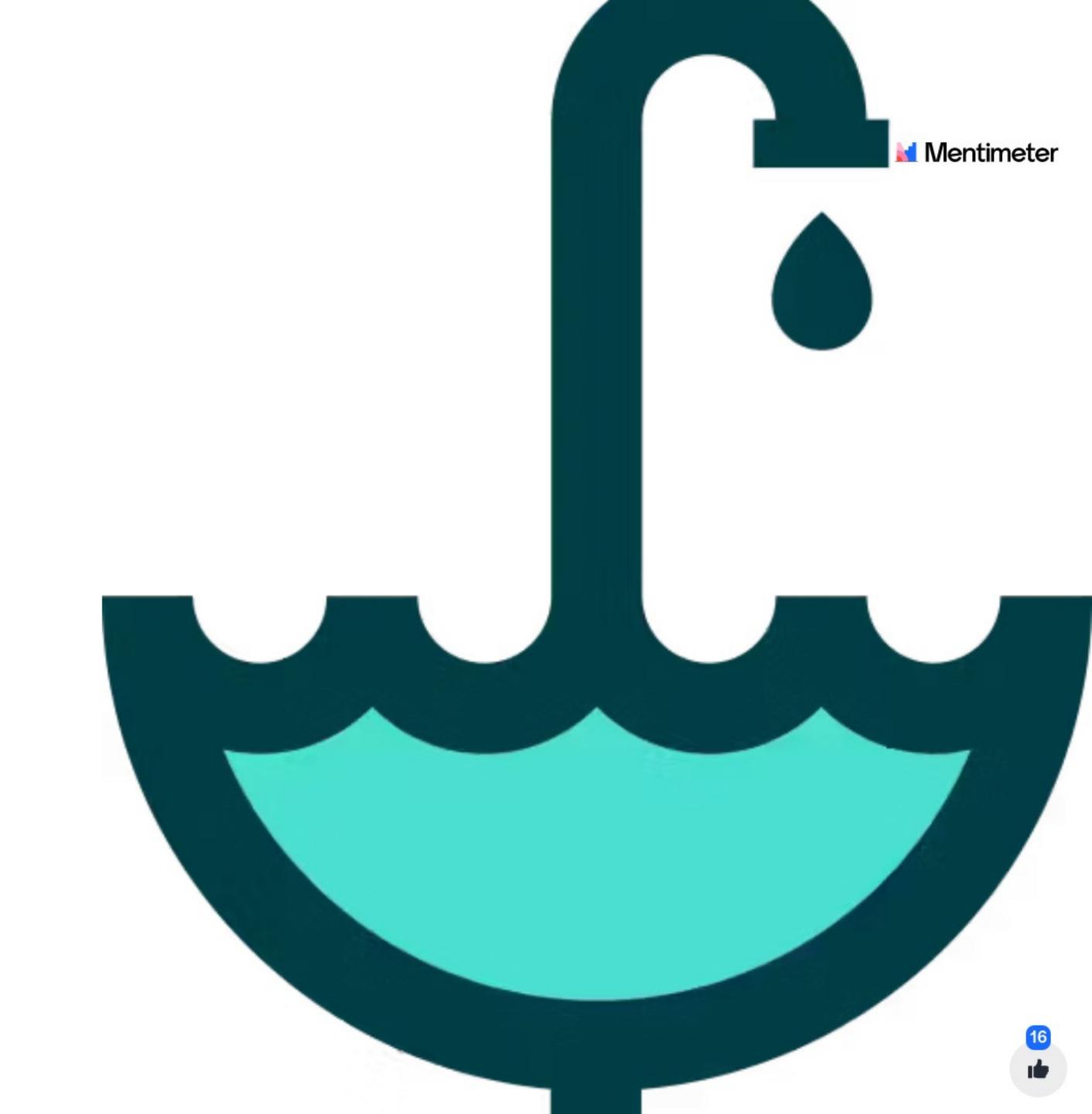
- Projects
- Programs
- O&M activities
- Stakeholder and Community Outreach activities
- Monitoring for Projects Completed using SCW funds
- Budget

ANNUAL REPORT

Descriptions of funded activities & Program Goals achieved. Currently includes basic quantitative metrics.

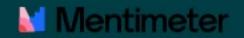
- Project/Program Descriptions
- SCW Goals (descriptive only)
- Metrics
 - Hydrology
 - Pollutant % Removal
- Community Benefits (Y/N)
- Vector Minimization
- ISI Status

Polls - Round 2 Reporting Process





Metric Profiles for Regional Program



Paraphrased Goals

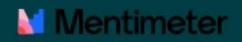
- 1. Community Investment Benefits
- 2. Disadvantaged Community Benefits
- 3. Proportional Municipal Benefits
- 4. Water Quality
- Water Supply
- 6. Leverage Other Funding
- 7. Nature Based Solutions

- 8. Multiple Benefits
- 9. Spectrum of Project Sizes
- 10. Adoption of New Technology
- 11. Independent Scientific Research
- 12. Adaptive Management
- 13. Green Jobs & Career Pathways
- 14. Ongoing O&M
- 15.Community Engagement*



^{*}Community Engagement is added as a goal for the purposes of metrics development based on the 2022 Interim Guidance and UCLA's whitepaper on CIB.





Water Supply Benefit

Current Reporting:

- Annual volume captured and treated (acre-ft)
- Water reuse components (Y/N)
- Onsite use components (Y/N)

Water Quality Benefit

Current Reporting:

Primary pollutant reduction (%)

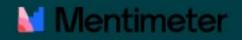
Proposed Improvements:

- Parse all volumes by fate (acre-ft)
 - Treated on-Site (flow through)
 - Infiltrated (over aquifer or non-aquifer zones)
 - Used on-Site
 - Diverted for treatment (existing or future planned treatment plant)
 - Diverted for reclamation (existing or future planned reclamation facility)

Proposed Improvements:

- Primary pollutant reduction (load and %)
- Secondary pollutants?





CIB: Improved flood management, mitigation

Current Reporting:

- Description
- Improve Flood Management, Conveyance and mitigation (Y/ N)

Possible Improvements: If yes...

- Type of flood issue mitigated
 - Surface Ponding (Pluvial)
 - Riverine Flooding (Fluvial)...
- Method of mitigation:
 - Peak flow reduction
 - Improved conveyance...
- Mitigation Ratio
 - e.g. Storage volume to resolve/storage volume provided
- Economic damages (\$)
 - Estimated with project
 - Estimated without project



Annual Reports – "Datafy"

"The City has mitigated flooding by improving the stormdrain lines, reconstructing the damaged inlets into catch basins and connecting them to underground infiltration chambers designed with a volume capacity to mitigate the flooding issues (13,860cf). This improves the water quality of runoff that collects pollutants produced by vehicular traffic and enters the stormdrain system untreated. It also increases vehicular and pedestrian safety during storm events by preventing flooding conditions from occurring."

Water Supply:

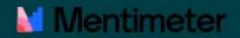
Annual volume Infiltrated (non-aquifer zone): 0.5 acre-ft.

Primary Pollutant Reduction: 50 lbs/yr

Flood Management

- Type of flood issue mitigated: <u>Localized</u> <u>ponding</u>
- Method of mitigation: Offline storage,
- Mitigation Ratio: 100%
 - Storage volume to resolve: 13k ft³
 - Storage volume provided: 13k ft³
- Economic damages (\$) If Known
 - Estimated with project: \$0
 - Estimated without project: \$100k





CIB: Create, enhance, or restore parks / habitats

Current Reporting:

- Description
- Yes / No

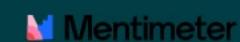
"..the projects propose improvements to City facilities. This includes pedestrian paths and improved recreational areas and park grounds. Additional improvements to landscaping will help communities mitigate and adapt to the effects of climate change by creating shade and greenspace, reducing heat island effect..."

Proposed Improvements:

- If Yes, Net area of park/habitat (acres)
 - Created (e.g. 0.5 acres)
 - Enhanced (e.g. 1.2 acres)
 - Restored

*All values parsed by new surface types e.g.:

- Accessible Park:
 - Hardscape (e.g. <u>0.5 acres</u>)
 - Turf
- Native Habitat
 - Groundcover (<u>0.2 acre</u>)
 - Shrub (e.g. <u>1 acre</u>)
 - Tree canopy (<u>0.3 acre</u>)
- Non-native habitat...





CIB: Reduce Urban Heat

Current Reporting:

Does Project Increase Shade or # of Trees (Y/N)

"..the projects propose improvements to City facilities. This includes pedestrian paths and improved recreational areas and park grounds. Additional improvements to landscaping will help communities mitigate and adapt to the effects of climate change by creating shade and greenspace, reducing heat island effect..."

Proposed Improvements: If yes,

- Net # of new trees planted
 - Parse by species planted and removed
 - e.g. <u>10 coast live oak planted, 1</u> sycamore removed
 - Canopy calculated within module
- # and net area (acres) of new manmade shade structure (e.g. 3, 0.05 acres)
- Net change in hardscape (e.g. -0.2 acres)



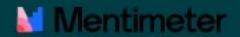
Project Stages

Project Stage	Data and Data Gathering		
Planning -> Submittal	 Project Metadata Estimate Project Metrics (WQ, WS, CI, NBS etc) 		
Design > Construction	 Confirm/Update Metadata Confirm/Update Project Metric Estimations 		
Post Construction (Y1-3) • Field, Remote Sensed and other Project Data (e.g. Mainted logs, O&M spend) • Evaluate Projected v. Actual Performance			

Define Project & Estimate Performance

Confirm Project & Estimations

Measure & Compare Performance



Nature Based Solutions

Current Reporting:

- Does the project implement or mimic natural processes(Y/N)
- Does the Project utilize natural materials (Y/N)

Vegetation and Green Space

CLASS	DESCRIPTION
GOOD	Use of climate-appropriate vegetation (groundcover, shrubs, and trees) / green space
	5%-15% covered by new climate-appropriate vegetation
BETTER	Use of native, climate-appropriate vegetation (groundcover, shrubs, and trees) / green space
	16%-35% covered by new native vegetation
BEST	Establishment of plant communities with a diversity of native vegetation (groundcover, shrubs, and trees) / green space that is both native and climate-appropriate
	More than 35% covered by new native vegetation

Increased Permeability

CLASS	DESCRIPTION		
GOOD	Installation of vegetated landscape – 25%- 49% paved area removed		
	Redesign of existing impermeable surfaces and/or installation of permeable surfaces (e.g. permeable pavement and infiltration trenches)		
BETTER	Installation of vegetated landscape – 50%- 74% paved area removed		
	Improvements of soil health (e.g., compaction reduction)		
BEST	Installation of vegetated landscape – 75%- 100% paved area removed		
	Creation of well-connected and self- sustained natural landscapes with healthy soils, permeable surfaces, and appropriate vegetation		

Proposed Improvements:

Evaluation against all 6 NBS categories

Examples:

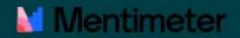
Vegetation and Green Space:

- % Project coverage by climate appropriate vegetation
- % Project coverage by native vegetation

Increased Permeability:

- Net Paved Area Removed (sqft)
 - Parsed by surface types installed and removed





Green Jobs and Career Pathways

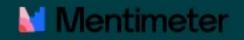
Current Reporting:

Descriptive Only

"The goal to promote green jobs and career pathways will be achieved by the Project through hiring engineering consultants to conduct preliminary engineering investigations, geotchnical engineering analysis,..."

Proposed Improvements:

- Estimated portion of SCW funds applied to labor (\$)
 - Parsed by Project phase and job classification (e.g. Design Phase; \$90,000 Civil Engineering, \$35,000 Geotechnical Engineering)
- Estimated FTE by job classification: Calculated within module
 - e.g. 0.5 FTE Civil Engineering, 0.2 FTE Geotechnical Engineering
- # of people trained (# and training type)



CIB: Responsiveness to Community Stated Needs

Current Reporting:

None

Community Engagement

Current Reporting:

Descriptive Only

Proposed Improvements:

 Letters of support from community organizations and members (#)

Living Database of Community/Tribe Stated Needs

How many community/tribe stated needs are addressed by the project? (#), and what are they.

Proposed Improvements:

- Good / Better / Best Framework for Community Engagement (from 2022 Interim Guidance)
- Input from Tribes? (Y/N) How was input sought? (drop down list including other)
- Was Tribal feedback received (Y/N) What input was received?



Copmmunity Engagement: Good, Better, Best Framework

	Good	Better	Best
Engagement Level	InformConsult	InvolveEducateLearn	CollaborateIncorporatePartner
Example Activities	 Fact Sheets Open Houses Presentations Videos Focus Groups Public Comment Social and Local Media Surveys Polling 	 House Meetings Workshops Community Forums Canvassing Response to Community Comment Document Understanding and Commitment to Relationships 	 MOUs, Support Letters (Tribes, CBOs, Elected Officials) Community Driven Planning Open Planning Forums w/ Citizen Polling Workforce Dev. Volunteerism Activities



Annual Reports: Programs and Non-Structural Projects Mentimeter

Example Programs

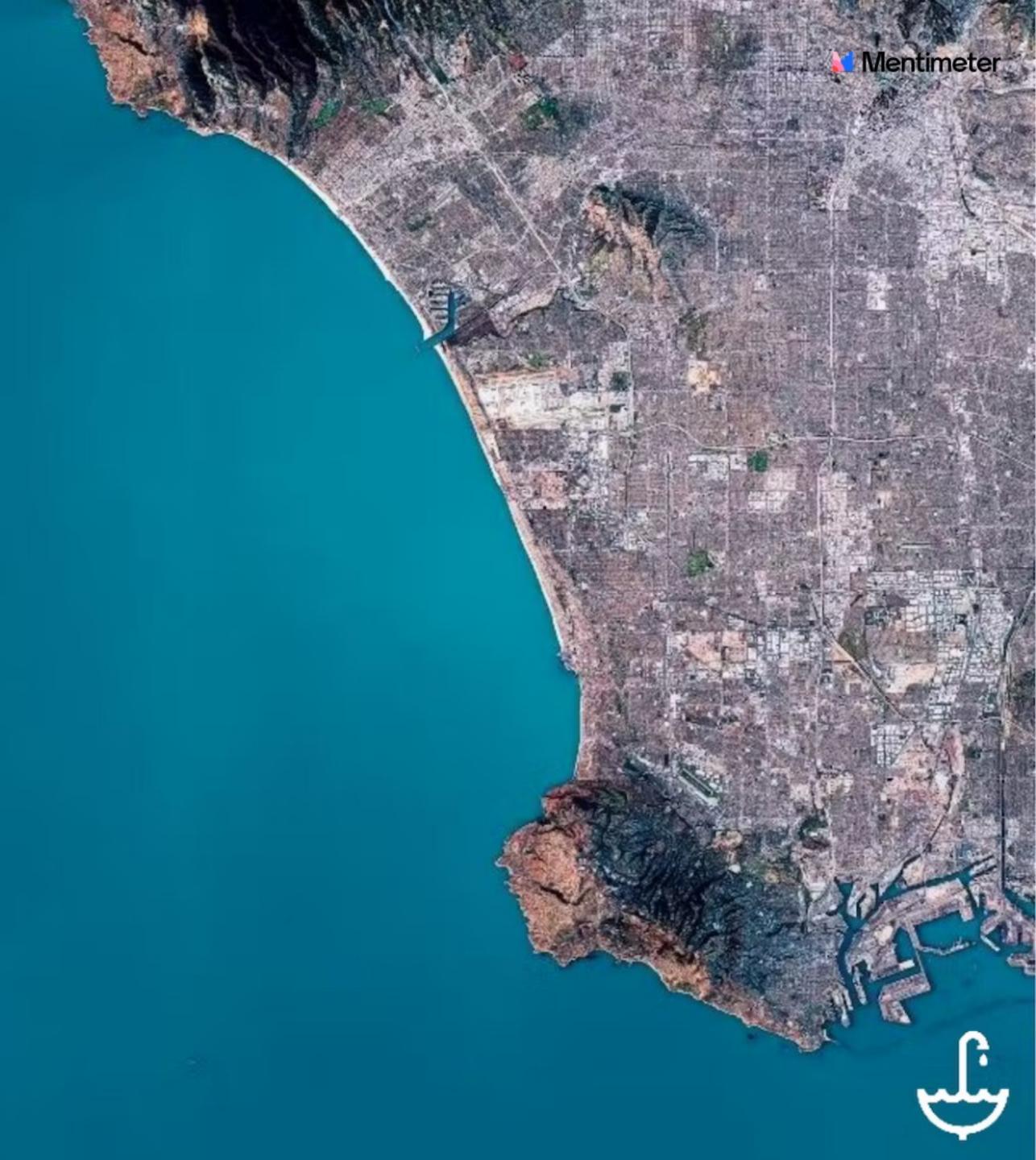
- Urban Runoff Monitoring and Reporting
- Community Outreach Events
- Studies (e.g. Trash Generation Studies, water quality...)
- NPDES and MS4 Consulting
- SCWP support activities (wasc, roc etc...)
- Regional Infrastructure Planning
- Staff Funding (Water Quality Admin and Coordination, Operations, SCWP Support Activities, WASC, ROC etc...)
- Membership dues

Example Non-Structural Projects

- O&M of Existing Projects: What types of metrics should count to SCWP Outcomes?
 - e.g. Water quality yes
 - e.g New tree canopy no
- O&M: Stormdrain repair
- Vector Control
- Street Sweeping

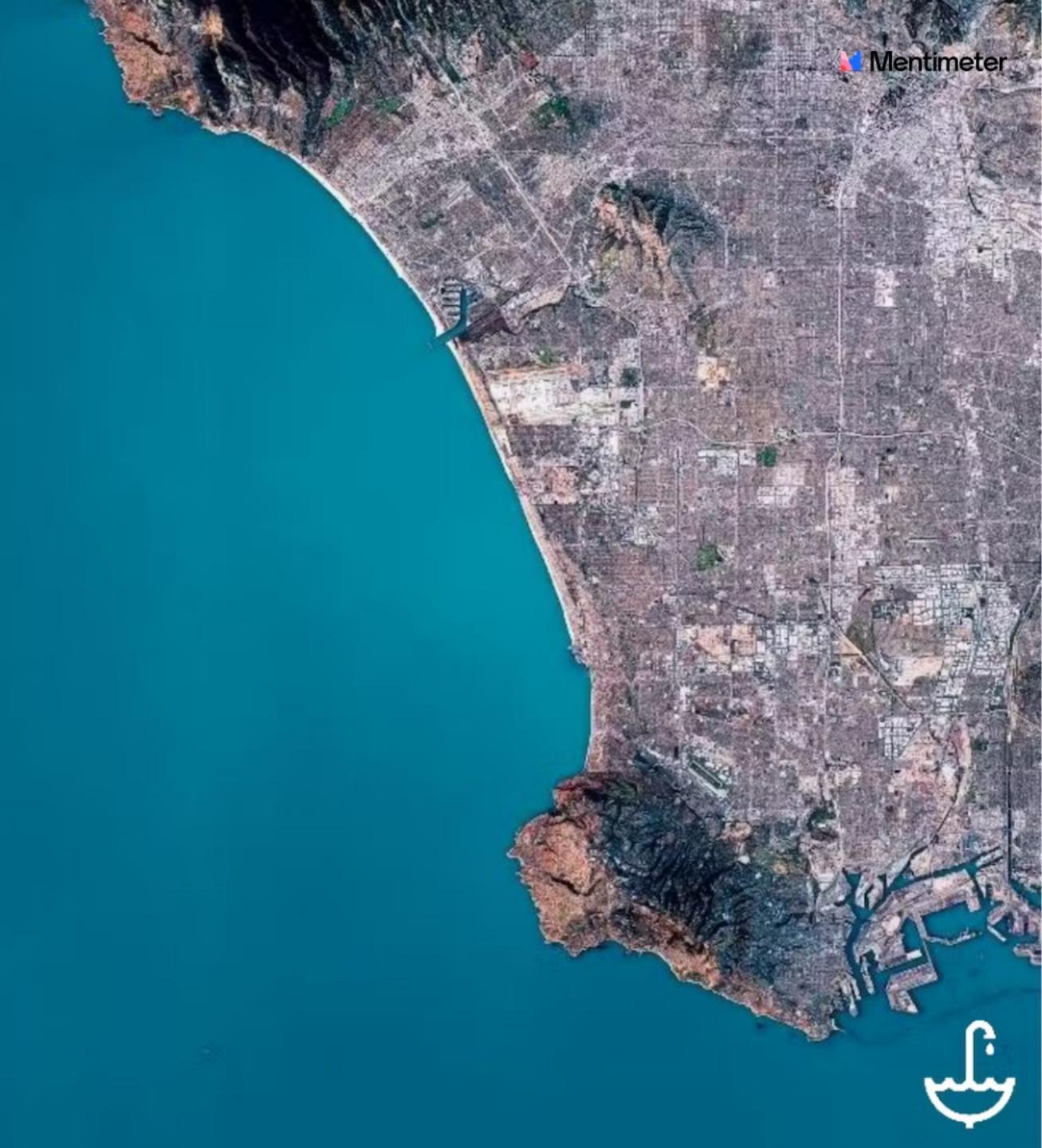


Question and Answer





What Comes Next?





What comes next for the Metrics & Monitoring Study



- The Q&A from this public workshop
 - Every question will get a written answer, a summary will be posted to the site.
 - Your contributions will influence the ongoing work of the MMS team, and
 - Will be shared with the MMS Stakeholder Advisory Committee at their next meeting
- Status Metrics and Monitoring Study
 - Two upcoming workshops, Summer 2023
 - Completion in Fall 2023
- Status SCWP
 - Mid-year 5 with most recent round of Stormwater Investment Plans approved by Regional Oversight Committee
 - Call for projects closing in July
 - Biennial review pending in late 2023
- As always email at <u>SafeCleanWaterLA@pw.lacounty.gov</u>

