

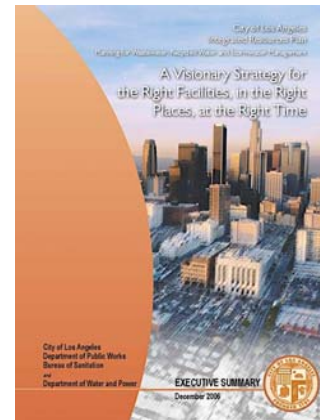
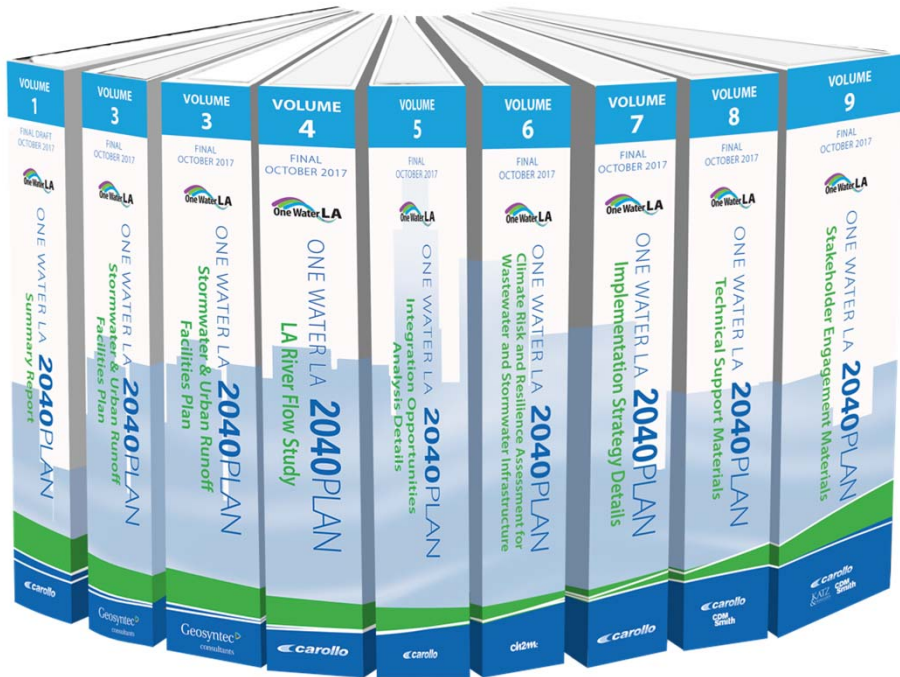


ONE WATER LA 2040 PLAN OVERVIEW



THE CITY OF LA IS COMMITTED TO A COLLABORATIVE APPROACH TO INTEGRATED WATER MANAGEMENT

One Water LA 2040 Plan
Completed in 2018
Planning Horizon: 2040



Updates the 2006 Water Integrated Resources Plan
Planning Horizon: 2020



<p>Stormwater Quality: Improve beach water quality grade-point average (GPA) to:</p> <p>35 (2025) 32 (2010)</p> <p>40 (2035) 35 (2010)</p> <p>2025 2035</p>
<p>Reduce the purchase of imported water by 50%</p> <p>50% 2025</p>
<p>Capture 150,000 acre-feet per year of stormwater</p> <p>150,000 AFY</p> <p>2035</p>
<p>Source 50% of water locally</p> <p>50% 2035</p>

Supports LA's 2015 Sustainable City pLAN Goals

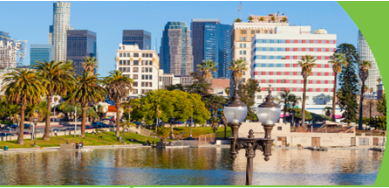


VISION FOR INTEGRATED WATER

Collaborative approach to develop an integrated framework for managing the City's watersheds, water resources, and water facilities in an **environmentally, economically, and socially beneficial** manner.



All Water is One Water!



OBJECTIVES

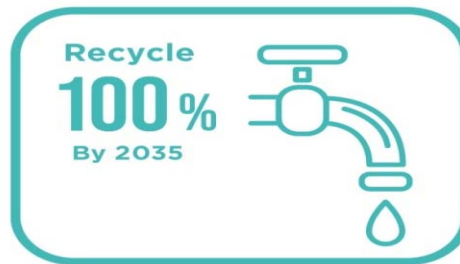
- Integrate **management of water resources** and policies
- Balance **environmental, economic, and societal** goals
- Improve health of local **watersheds**
- Improve local water **supply reliability**
- Implement, monitor, and maintain a **reliable wastewater** system
- Increase **climate resilience**
- Increase **community awareness** and advocacy for sustainable water





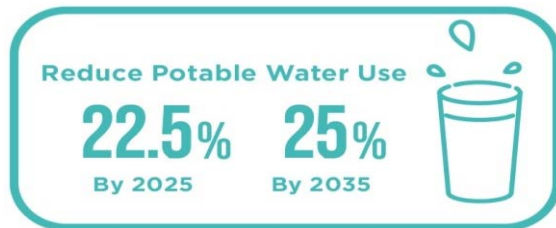
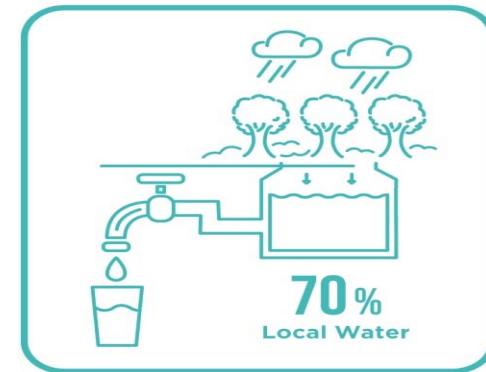
THE GREEN NEW DEAL AND INTEGRATED PLANNING

L.A.'s Green New Deal accelerates the targets from the Mayor's Sustainability pLAN:



Recycle 100% of all wastewater for beneficial reuse by 2035

Source 70% of L.A.'s water locally and capture 150,000 acre ft/yr (AFY) of stormwater by 2035



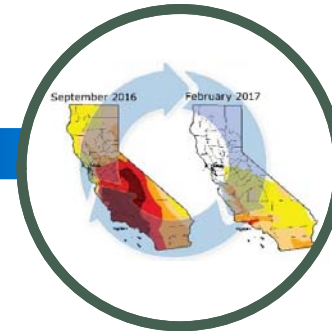
Reduce potable water use per capita by 22.5% by 2025; 25% by 2035; and maintain or reduce 2035 per capita water use through 2050



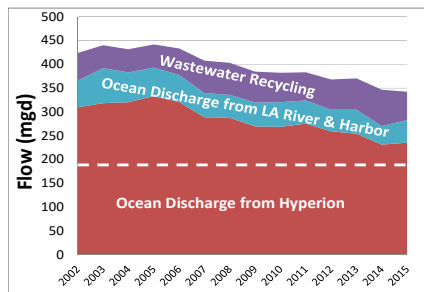
INCORPORATING CHANGES IN THE WATER LANDSCAPE



New Plans & Goals



Recurring Droughts



Declining Wastewater & Reduced Recycled Water Availability



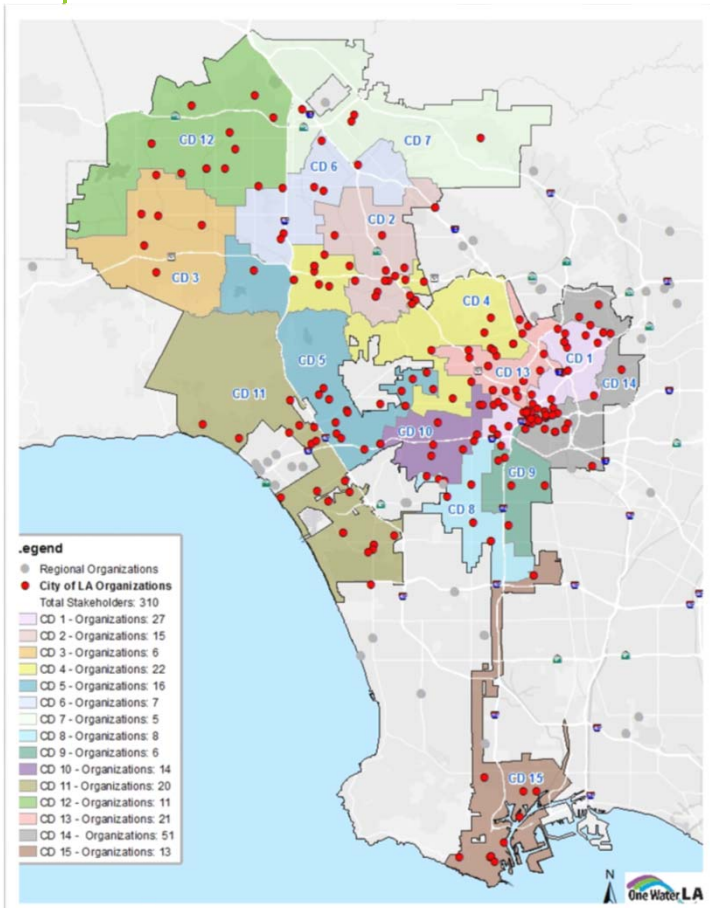
Climate Change



New Stormwater & Receiving Water Quality Regulations



PLANNING APPROACH WITH BROAD INVOLVEMENT



TEAMWORK

500+
STAKEHOLDERS

30
MEMBER STEERING COMMITTEE

300+
ORGANIZATIONS REPRESENTED

10
STAKEHOLDER ADVISORY
GROUP MEMBERS

30+
STAKEHOLDER AND ADVISORY
GROUP MEETINGS

5
SPECIAL TOPIC GROUPS

65+
PRESENTATIONS AND DISCUSSIONS AT
NEIGHBORHOOD COUNCILS,
CONFERENCES/EVENTS AND WITH
EDUCATION PARTNERS





THE ONE WATER LA 2040 PLAN CONSISTS OF MANY ELEMENTS & RECOMMENDATIONS



STORMWATER & URBAN RUNOFF FACILITIES PLAN

Planning Approach

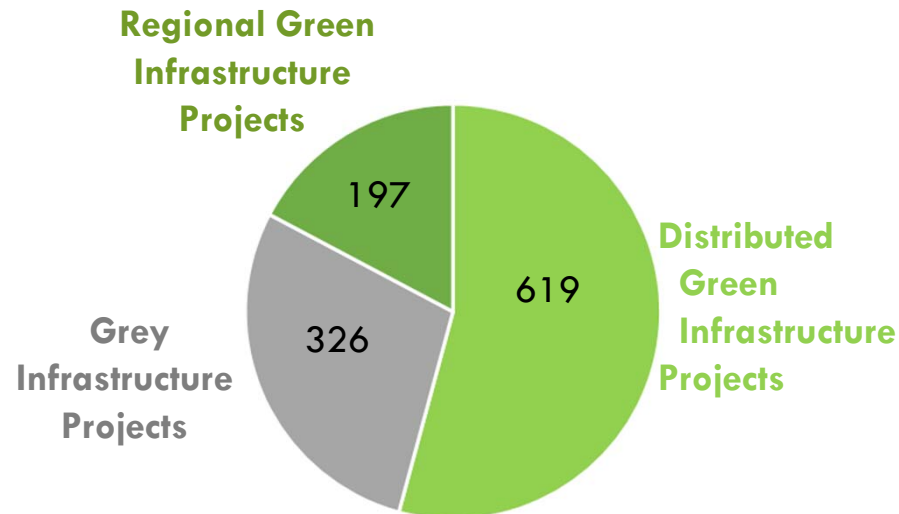


- The **Three-legged Stool** approach integrates water quality, water supply and flood risk mitigation benefits
- **Project Prioritization** is based on these 3 benefits & TMDL compliance deadlines

STORMWATER & URBAN RUNOFF FACILITIES PLAN

Recommendations

- 1,142 Projects Total
- 71% Green Infrastructure Projects
- 155 miles of Green Streets



Outcomes

- Refined Green Streets opportunity areas from EWMPs
- Projects with a wide range of benefits to improve the City's resiliency
- Policies and Programs to help reduce roadblocks and incentivize distributed and other solutions
- Funding strategies to help close the gap



WASTEWATER FACILITIES PLAN

Planning Approach

- Potable Reuse Treatment Upgrades for Future Concepts
- Capital Improvement projects for all 4 reclamation plants
- Rehabilitation and Replacement (R&R) projects for all 4 reclamation plants
- Wastewater conveyance projects
- Climate resiliency projects



WASTEWATER FACILITIES PLAN RECOMMENDATIONS

Outcomes

- Protect our facilities and assets from climate related risks
- Prepare Water Reclamation Plants to maximize potable reuse
- Implement, monitor, and maintain a reliable wastewater system

Donald C. Tillman WRP

23 Planned Projects
8 Planned R&R Projects
2 Climate Resiliency Projects
6 Future Concepts

LA-Glendale WRP

2 Planned Projects
18 Planned R&R Projects
3 Climate Resiliency Projects
2 Future Concepts

Collection System

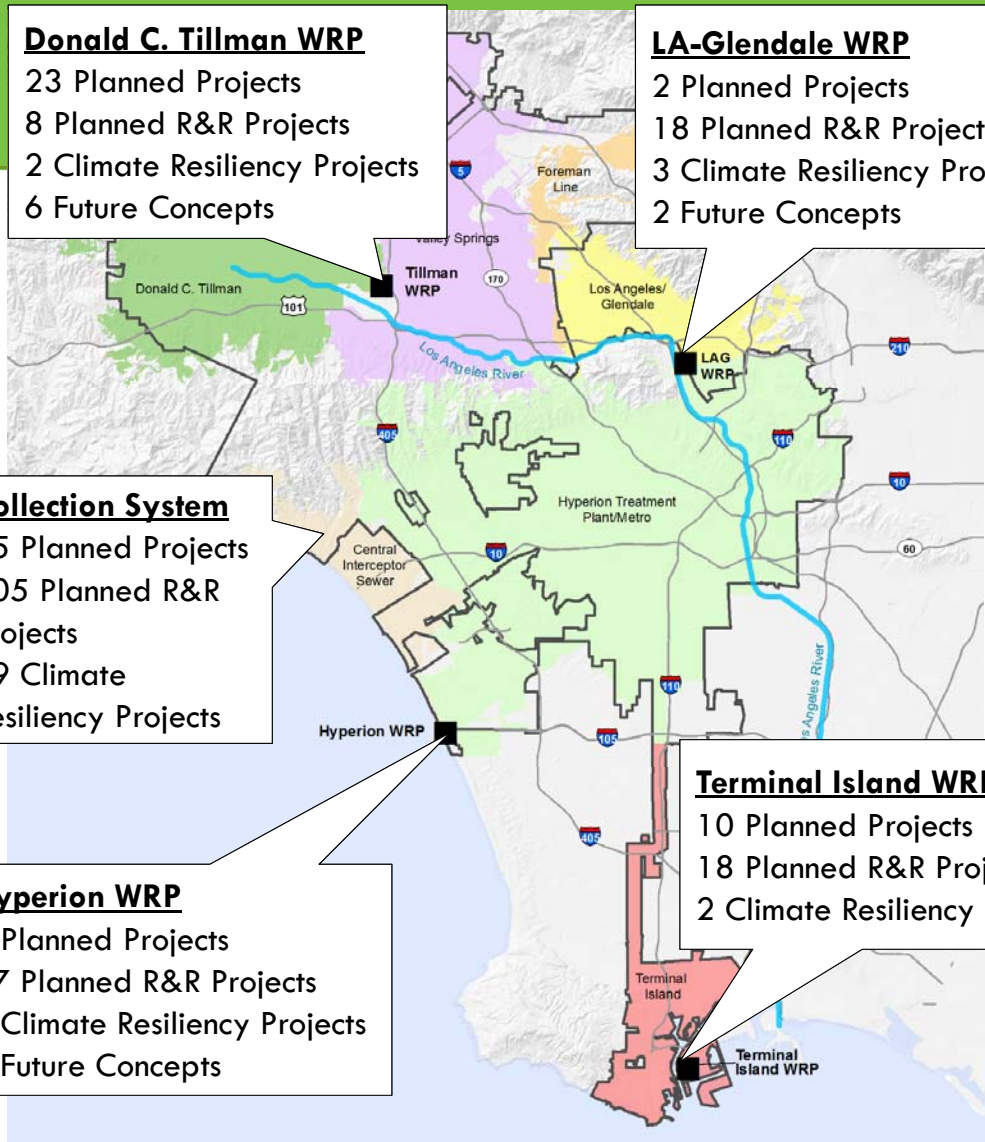
15 Planned Projects
105 Planned R&R
Projects
29 Climate
Resiliency Projects

Hyperion WRP

7 Planned Projects
37 Planned R&R Projects
1 Climate Resiliency Projects
7 Future Concepts

Terminal Island WRP

10 Planned Projects
18 Planned R&R Projects
2 Climate Resiliency Projects





CLIMATE RESILIENCY ASSESSMENTS OF CRITICAL WASTEWATER AND STORMWATER INFRASTRUCTURE

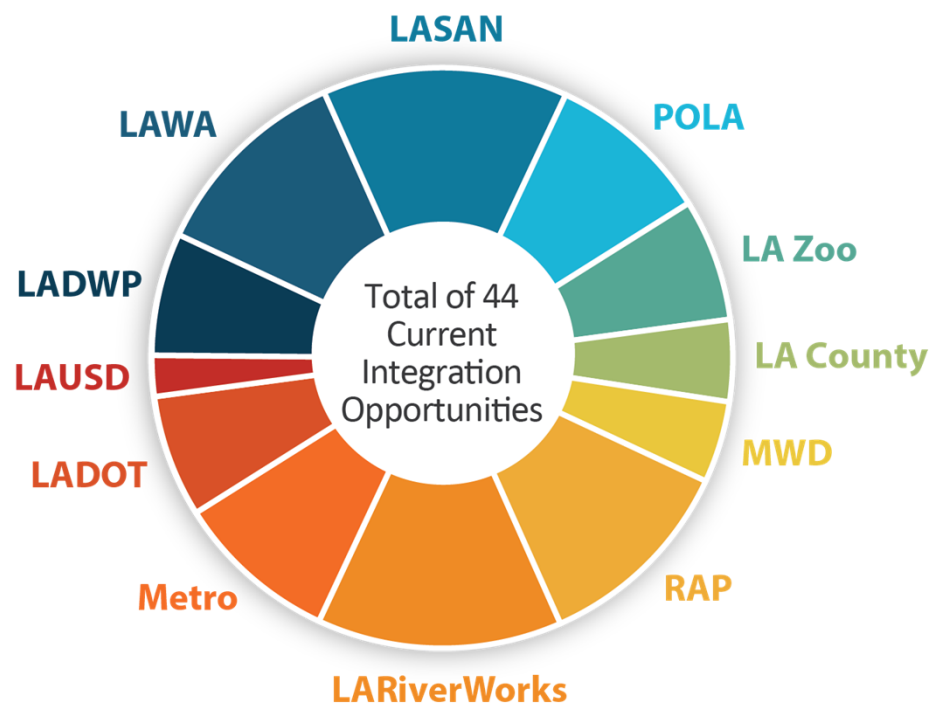
Planning Approach

- Multi-Disciplinary Field Visits
- EPA Climate Modeling (CREAT)
- Flood & Tsunami Zone Modeling
- Review of Facility Designs
- Identify Adaptation and Mitigation Strategies





CURRENT INTEGRATION OPPORTUNITIES IDENTIFIED WITH THE STEERING COMMITTEE MEMBERS



- 44 water-related integration opportunities
- Fact Sheets were developed for the Top 10 opportunities
- The top 5 opportunities were further developed as case study examples
- Periodic updates to identify new integration opportunities with other City Departments & Regional Agencies



CITY PLANNING & PARTNERSHIP SPOTLIGHT



Clean Up Green Up is a policy initiative that aims to address environmental justice issues in communities disproportionately affected by industrial land uses and polluting sources. One Water LA provided input on stormwater measures related to this ordinance.



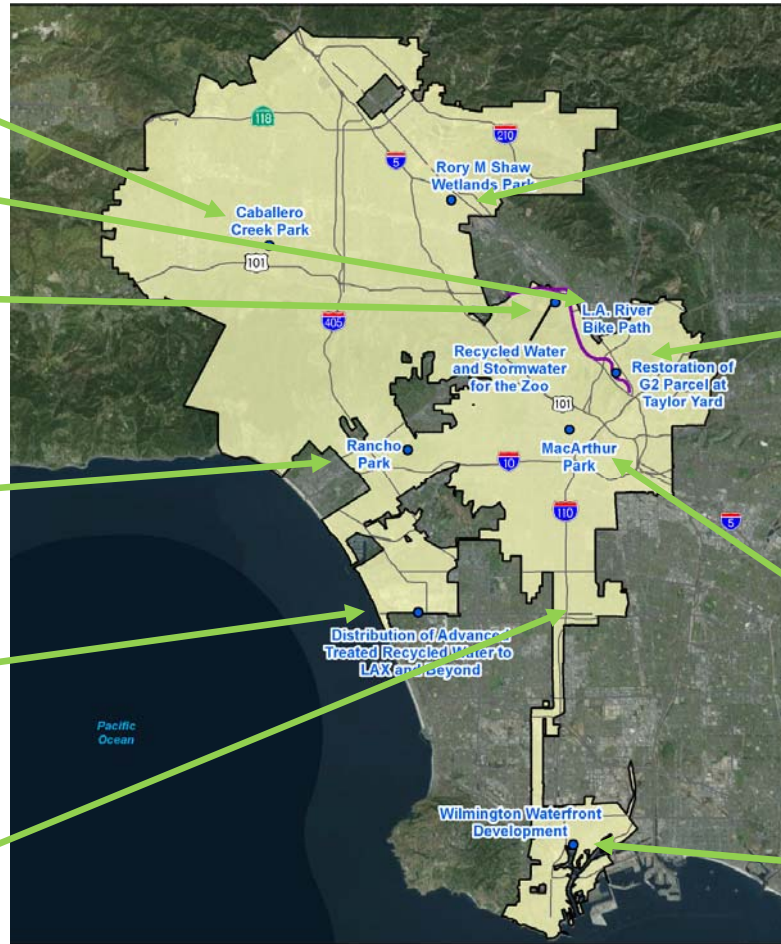
Re:Code LA is preparing a new zoning code for the first time since 1946 that will enable the City to apply more tailored zoning that responds to the needs of the community. The One Water LA team is taking advantage of this unique opportunity by guiding the City's Planning Department on water-related code updates.



OurLA2040 is an update of the City's General Plan and the One Water LA team is working with DCP to help draft the water element. The General Plan is the heart and foundation of the City's long range planning endeavors and serves as the basis for physical, economic, social, cultural, and environmental decision making.



TOP 10 CURRENT INTEGRATION OPPORTUNITIES



Caballero Creek Park

LA River Bike Path

Water Management Strategies for the LA Zoo Master Plan

Rancho Park Water Reclamation Facility

Advanced Treated Recycled Water Delivery to LAX and Scattergood

Capture of Off-Site Stormwater at LAUSD Schools (location TBD)

Rory M. Shaw Wetlands Park

Restoration of G2 Parcel at Taylor Yard

MacArthur Park

Wilmington Waterfront Development



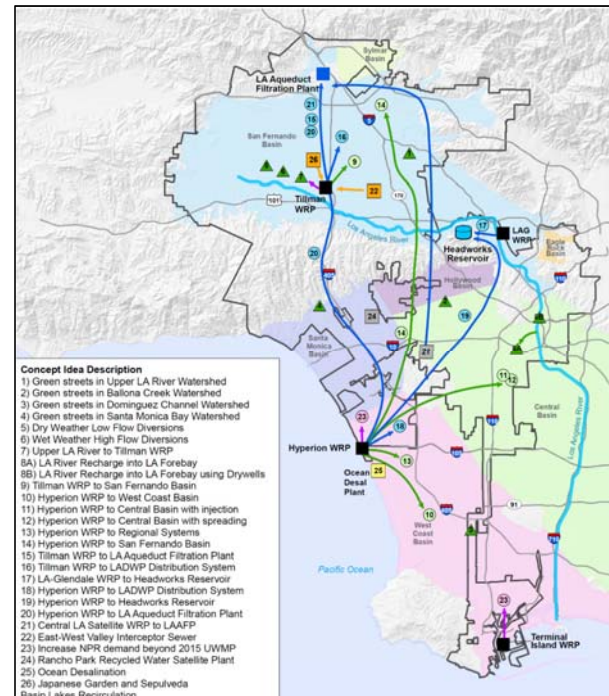


FUTURE INTEGRATION OPPORTUNITIES

8 Recommended Strategies



27 Concept Options



6 Preferred Concepts



COMPREHENSIVE EVALUATION CRITERIA & METRICS WERE USED TO COMPARE THE PROJECT CONCEPTS

Economic Criteria

- Unit cost
- Financial benefits
- Funding mechanism
- Likelihood to obtain outside funding

Resiliency Criteria

- Drought resiliency
- Earthquake resiliency
- Flood risk mitigation
- Local supply benefit
- Energy impact/Green-House Gas Emission

Implementation Criteria

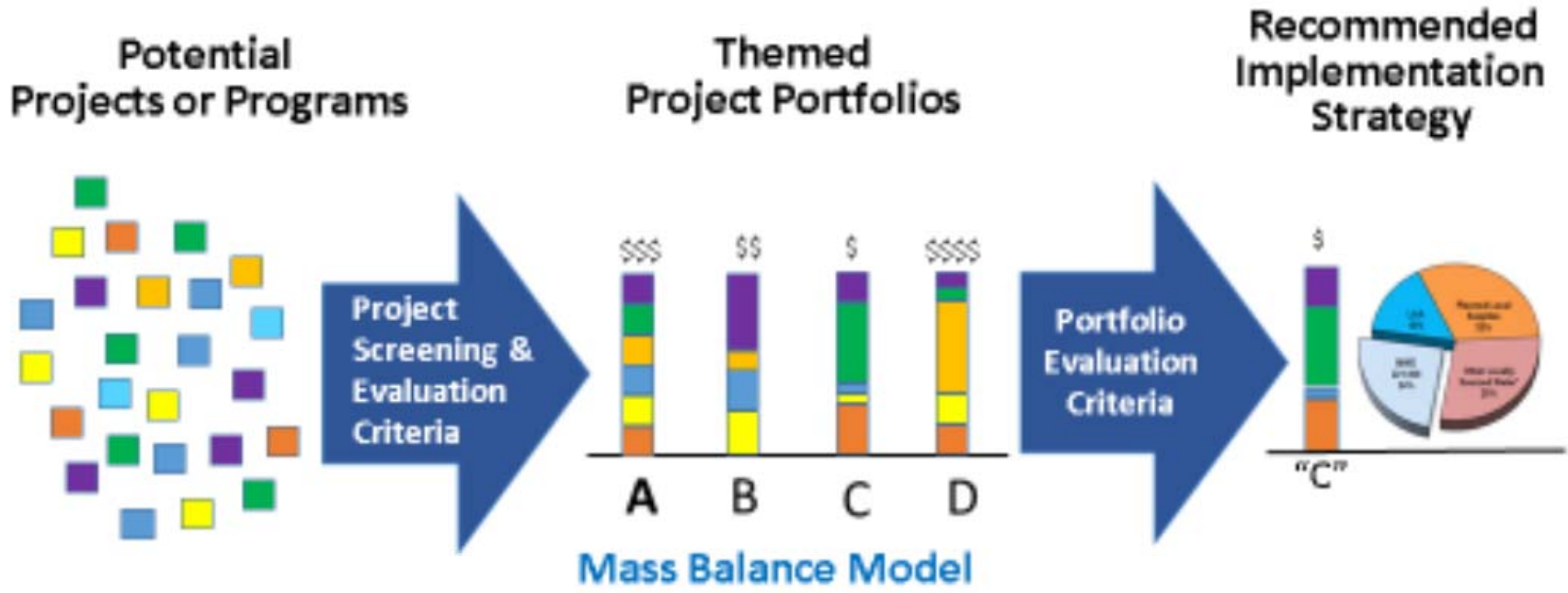
- Constructibility
- Institutional collaboration
- Regulatory approval
- Public engagement
- Public and political support

Environmental Criteria

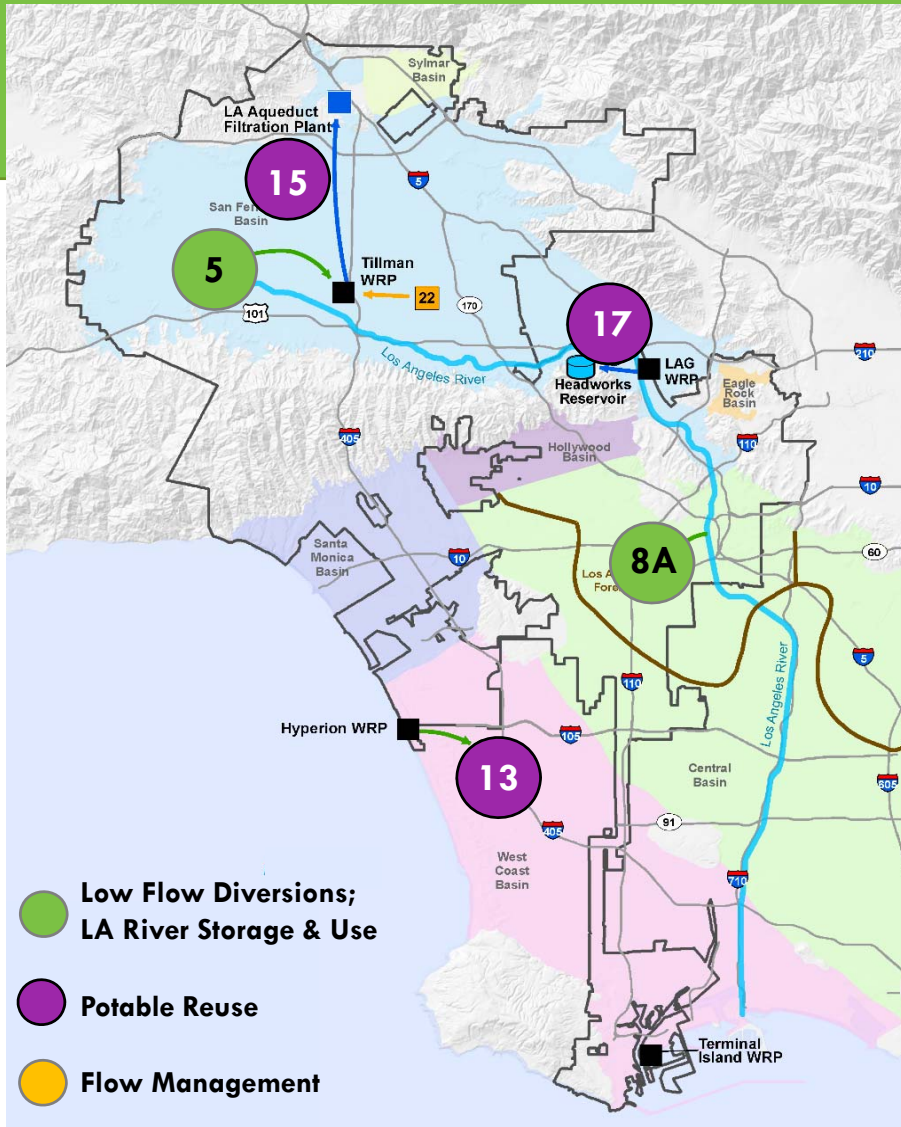
- Environmental justice
- Open/natural space and recreational benefit
- Stormwater quality
- Ecological quality



LONG-TERM CONCEPT IDEAS WERE ANALYZED THROUGH A PORTFOLIO EVALUATION PROCESS



FUTURE CONCEPTS



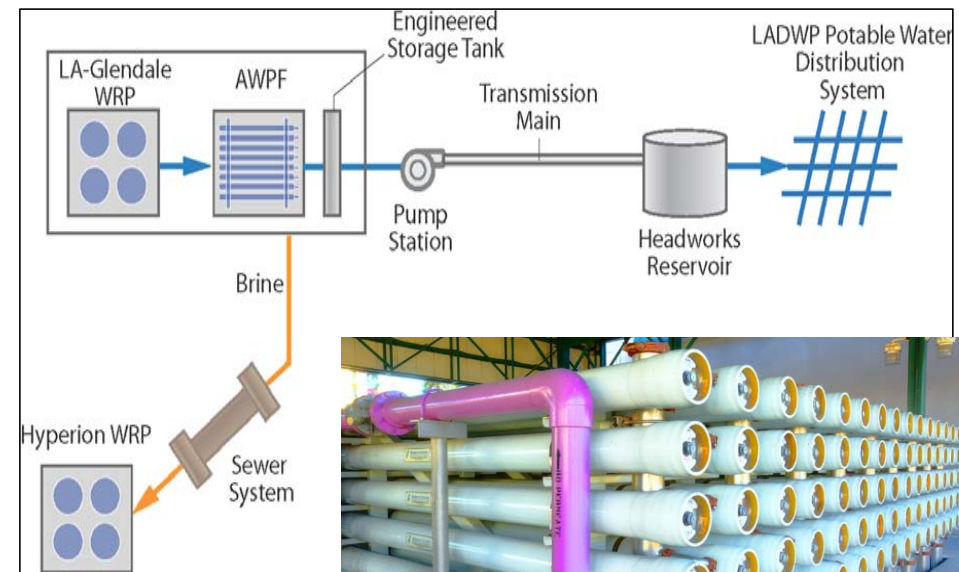
- #5:** Dry Weather **Low Flow Diversions** 6,200 afy
- #8A:** **LA River** recharge into LA Forebay with injection wells 25,000 afy
- #13:** MBR at Hyperion WRP to Regional System 95,000 afy
- #15:** Potable Reuse with raw water augmentation from Tillman to LAAFP 15,000 afy
- #17:** Potable Reuse with treated water augmentation from LAG to Headworks Reservoir 6,000 afy

Total: 147,200 afy

INTEGRATION OPPORTUNITIES BENEFITS

Anticipated Outcomes

- Improve local water supply reliability
- Maximize potable reuse to minimize discharge to the ocean
- Minimize dry-weather runoff to receiving waters
- Increase climate resilience



POLICIES AND PROGRAM RECOMMENDATIONS

39 Policy & Program Recommendations

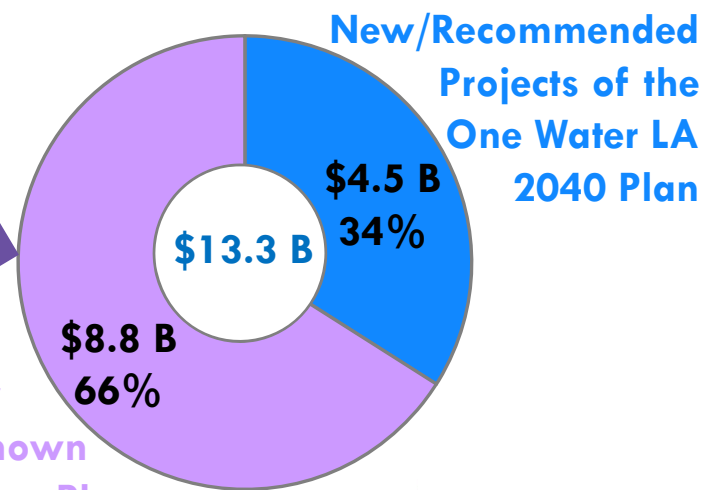
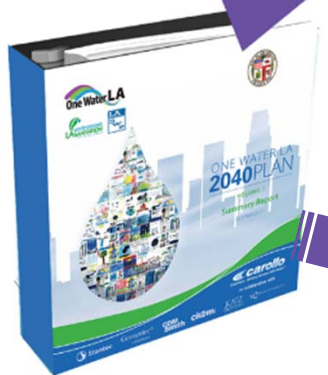
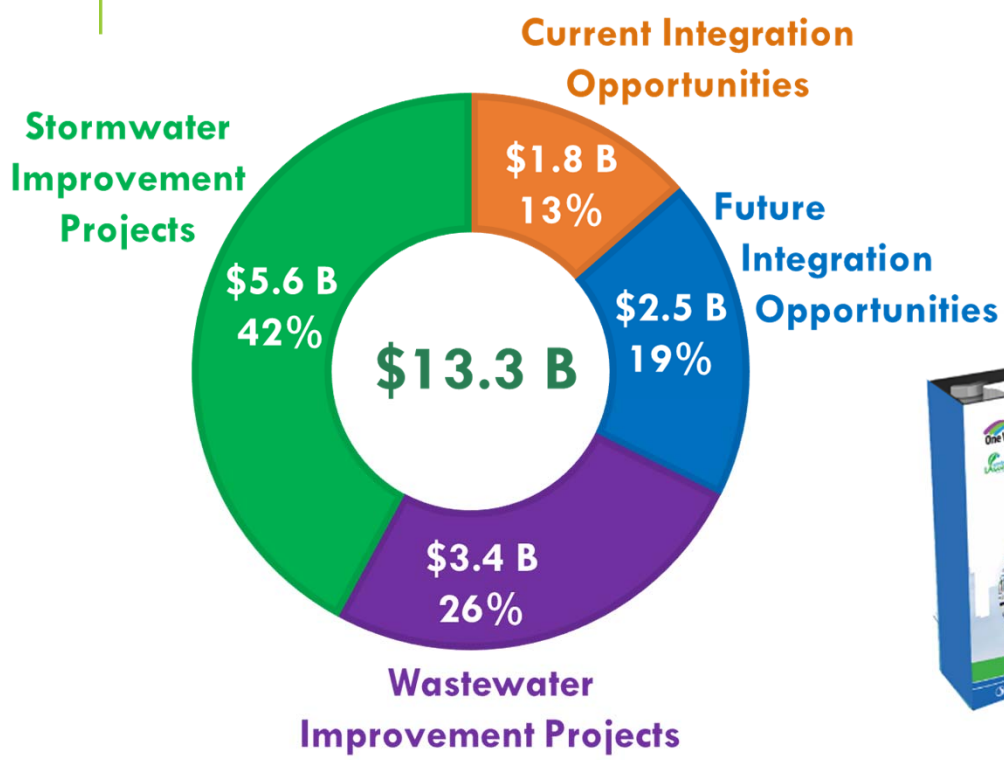


9 Categories

- Integrated Planning and Design
- Stormwater and Urban Runoff Management
- Training and Education
- Streamlining Collaboration and Implementation
- Funding and Partnerships
- Sustainability and Climate Change
- Water Conservation
- Recycled Water
- LA River Revitalization



THE ONE WATER LA PLAN ALSO COMBINES MANY RECOMMENDATIONS OF OTHER PLANS





FUNDING IDEAS AND RECOMMENDATIONS GATHERED FROM CITY STAFF AND STAKEHOLDERS

Develop a One Water LA Funding Plan

- Explore stormwater tax or fee options
- Review and streamline grant management process
- Understand how multiple agencies could identify benefit-based costs for water-related projects
- Increase use of State Revolving Funds for multi-benefit projects
- Develop partnerships to reduce costs and maximize upstream solutions





PLAN IMPLEMENTATION FOCUS AREAS

Future City Activities for Plan Implementation:

- **Conduct Continued Technical Analysis:**
 - Upper LA River/ Sepulveda Basin Storage Evaluation
 - Further LA River Alternative Concepts Analysis
 - Further Climate Resiliency Evaluation (ie. Design Storm & Design Criteria)
- Continue work w/other Departments & Agencies on Current & Future Integration Opportunities
- Policy & Program Feasibility Analysis
- Pursue Funding Opportunities





VISIT ONEWATERLA.ORG TO READ THE PLAN

Questions

