

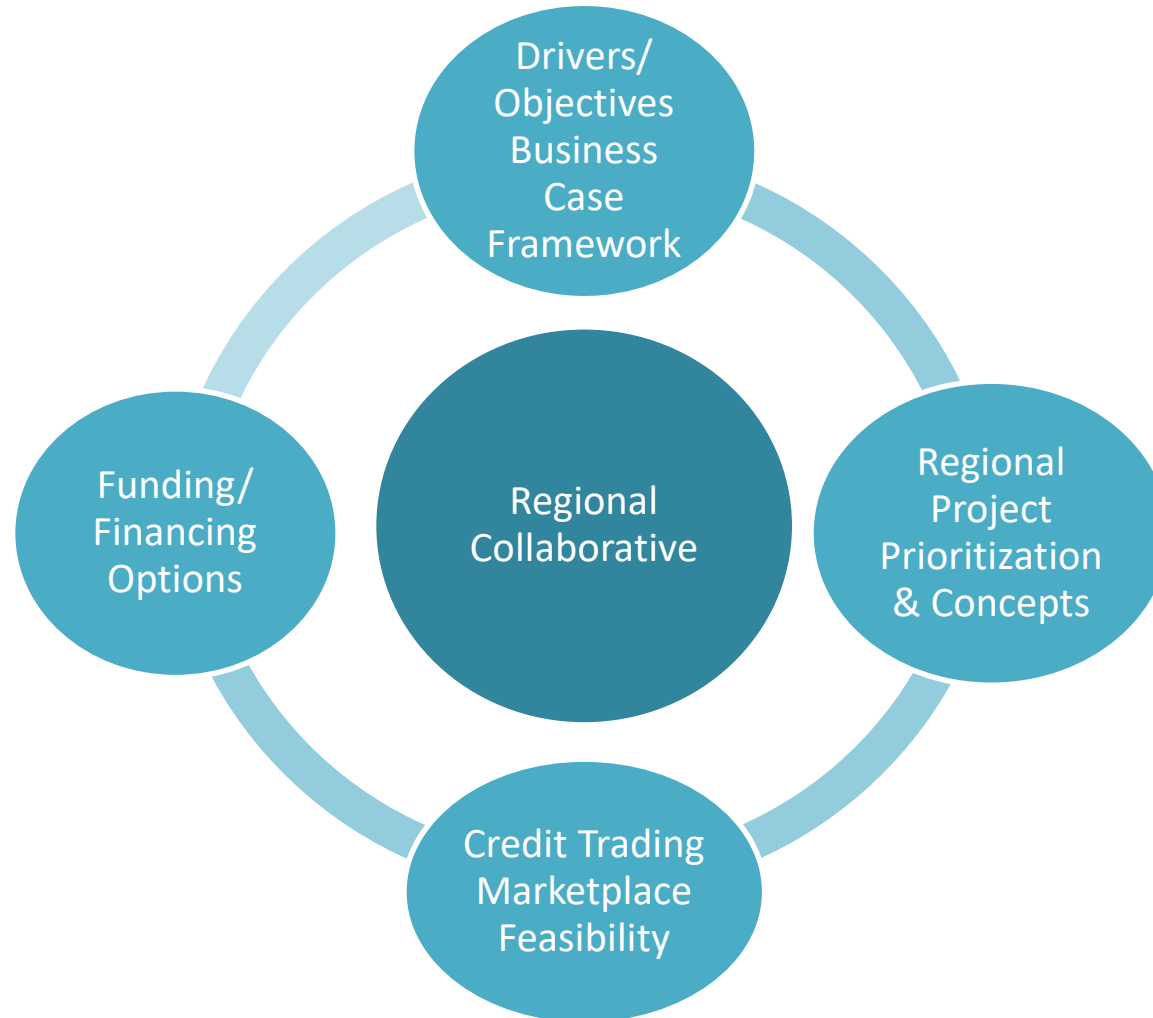
Geosyntec   
consultants

# Advancing Regional Stormwater Capture Projects – Regional Collaborative Program

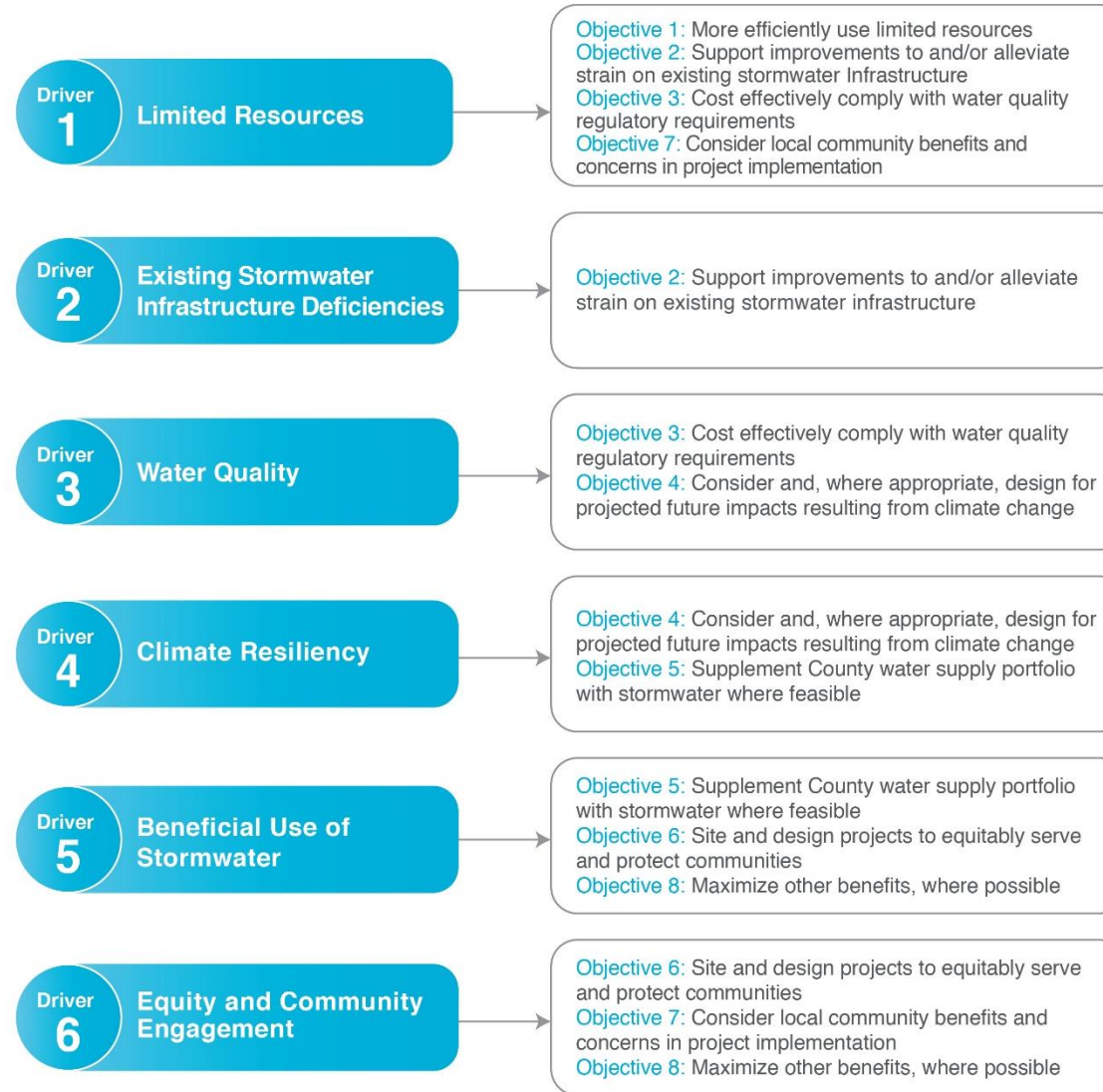
November 18, 2021



# Refresher: Advancing Regional Projects



# Refresher: Drivers and Objectives



# Results of Business Case

Objective		Regional Collaborative Scenario Benefits
More Efficiently Use Limited Resources		<b>Average cost savings of approximately 60% to 75% per acre greened</b>
Support Improvements to Alleviate Strain on Existing Stormwater Infrastructure		<b>Additional opportunities for projects to provide flooding alleviation</b>
Cost Effectively Comply with Water Quality Regulatory Requirements	PCBs	<b>Estimated cost savings of 75% to 95+% to meet MRP required PCBs load reduction through GSI</b>
	Acres greened	<b>Estimated cost savings of approximately 70% to 75% to provide acres greened for RAA scenario, along with reduced ongoing inspection costs</b>
	Trash	Equivalent to jurisdiction-by-jurisdiction per available data
Supplement County Water Supply Portfolio with Stormwater, Where Feasible		<b>Opportunities for water supply to offset project costs</b>
Consider and, Where Appropriate, Design for Projected Future Impacts Resulting from Climate Change		<b>Estimated cost savings of 60% to 70% for equivalent Climate Change Impact Offset</b>
Consider Local Community Benefits and Concerns in Project Implementation		<i>Qualitative analysis</i>
Site and Design Projects to Equitably Serve and Protect Communities		<i>Qualitative analysis</i>
Maximize Other Benefits, Where Possible		<i>Qualitative analysis</i>

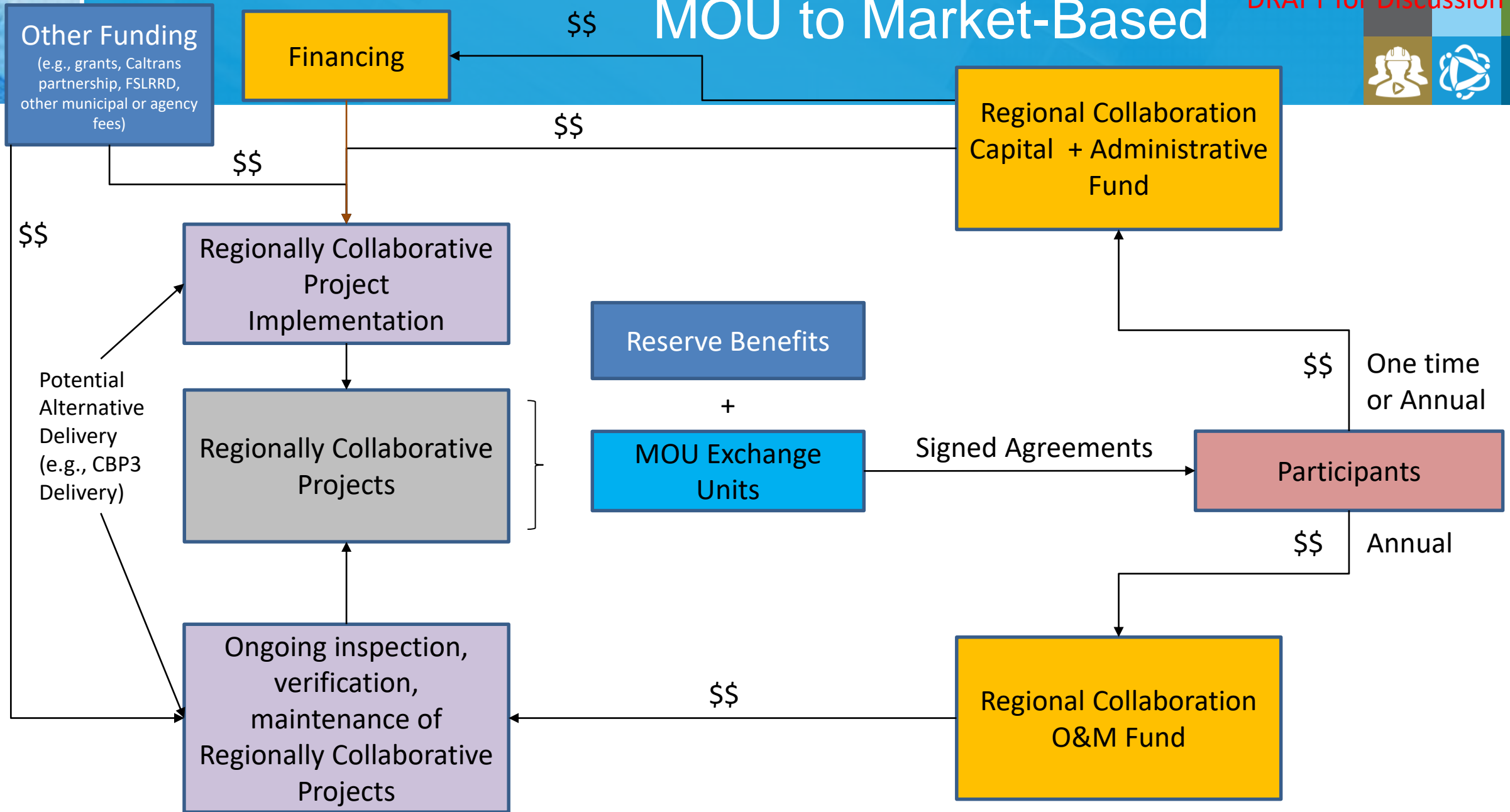
## Types of Regional Collaborative Programs considered

- **Market-based/Market-like:**
  - Have a foundational regulatory driver for participation
  - “Credits” or “units” generated through off-site measures
  - Provide participant cost-savings through credit purchase
- **Memoranda of Understanding:**
  - Interim program while market-based program developed
  - Allows exchanges recognized by regulatory agencies
  - Usually has finite timeline as it limits credit price adjustments

- Interim program to exchange acres greened units while market-based system is developed
- Specific time-frame for payments
- Specific acres greened unit and O&M payment costs
- Once market-based system is operating, acres greened units exchanged through MOU retired

# MOU to Market-Based

DRAFT for Discussion

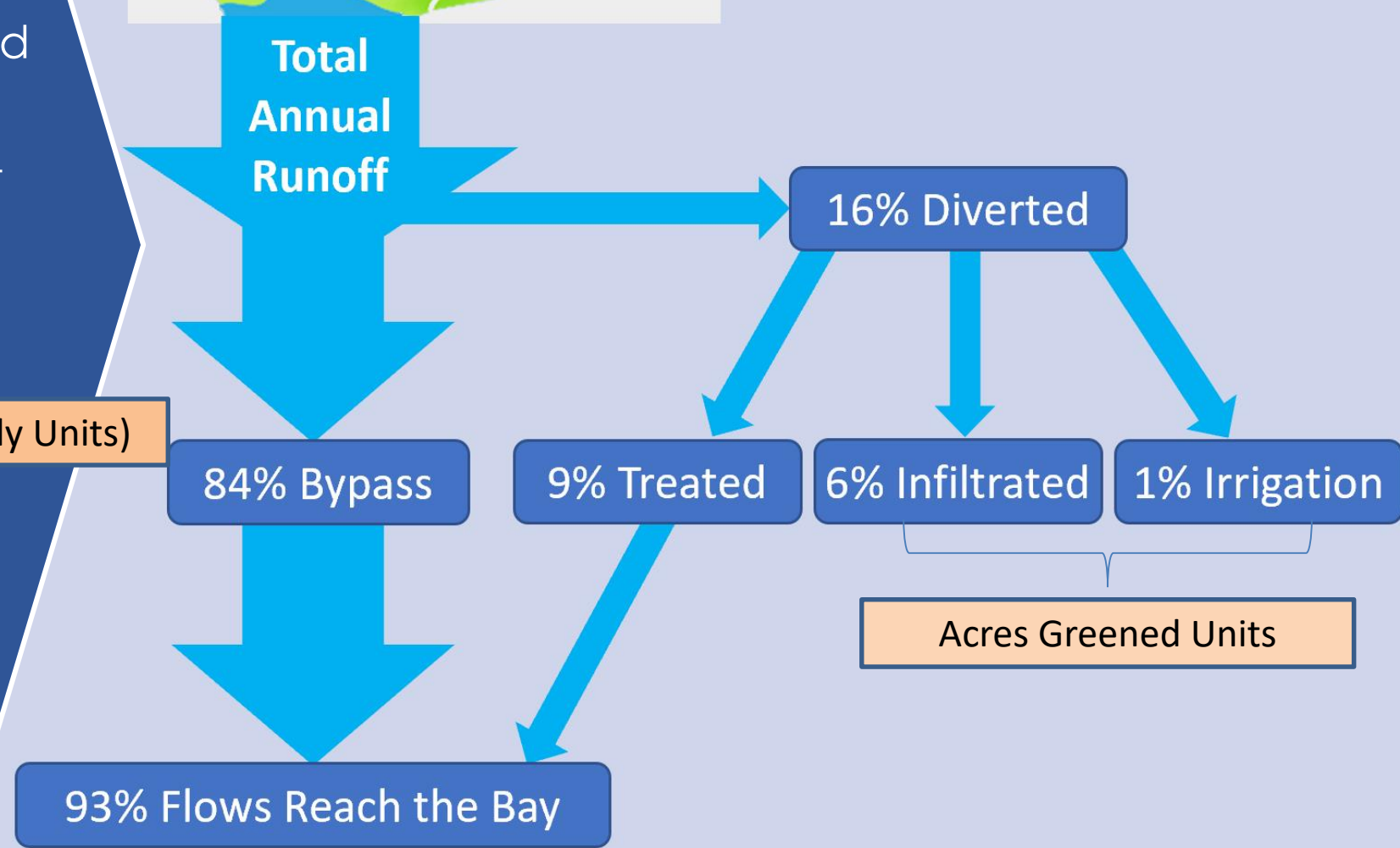


# ESTIMATED BENEFITS

- Water quality treatment provided to 2,468 acres of equivalent area
- 640 acre-feet of water diverted and cleaned annually
- 15 MG of potable water offset per year; \$140,000 annually in water savings
- 240 acre-feet of groundwater recharge annually (Water Supply Units)
- 10 grams of PCBs removed annually
- 30 grams of mercury removed annually



Slide Credit: City of South San Francisco and Lotus Water



93% Flows Reach the Bay

84% Bypass

9% Treated

6% Infiltrated

1% Irrigation

16% Diverted

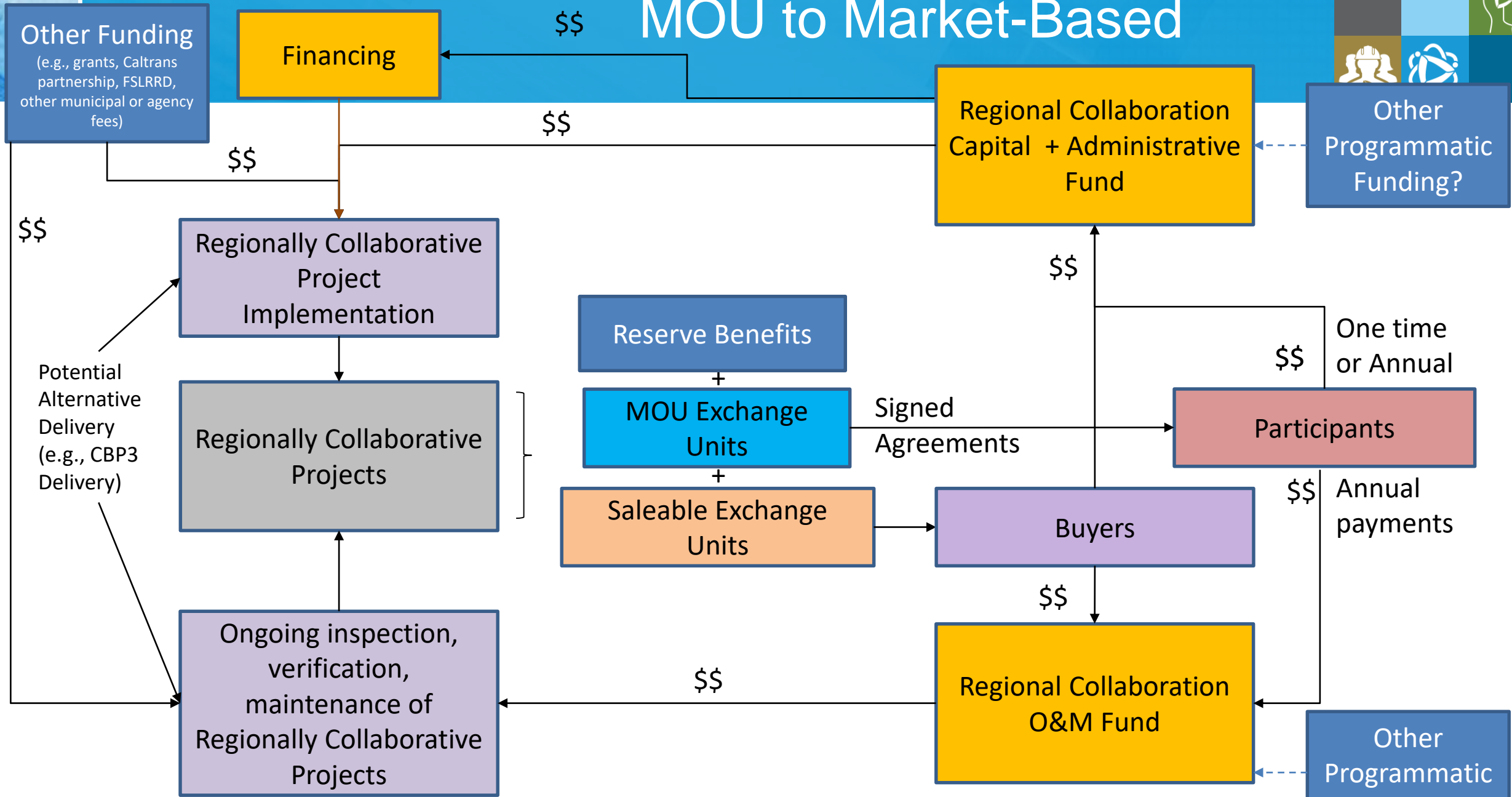
Acres Greened Units



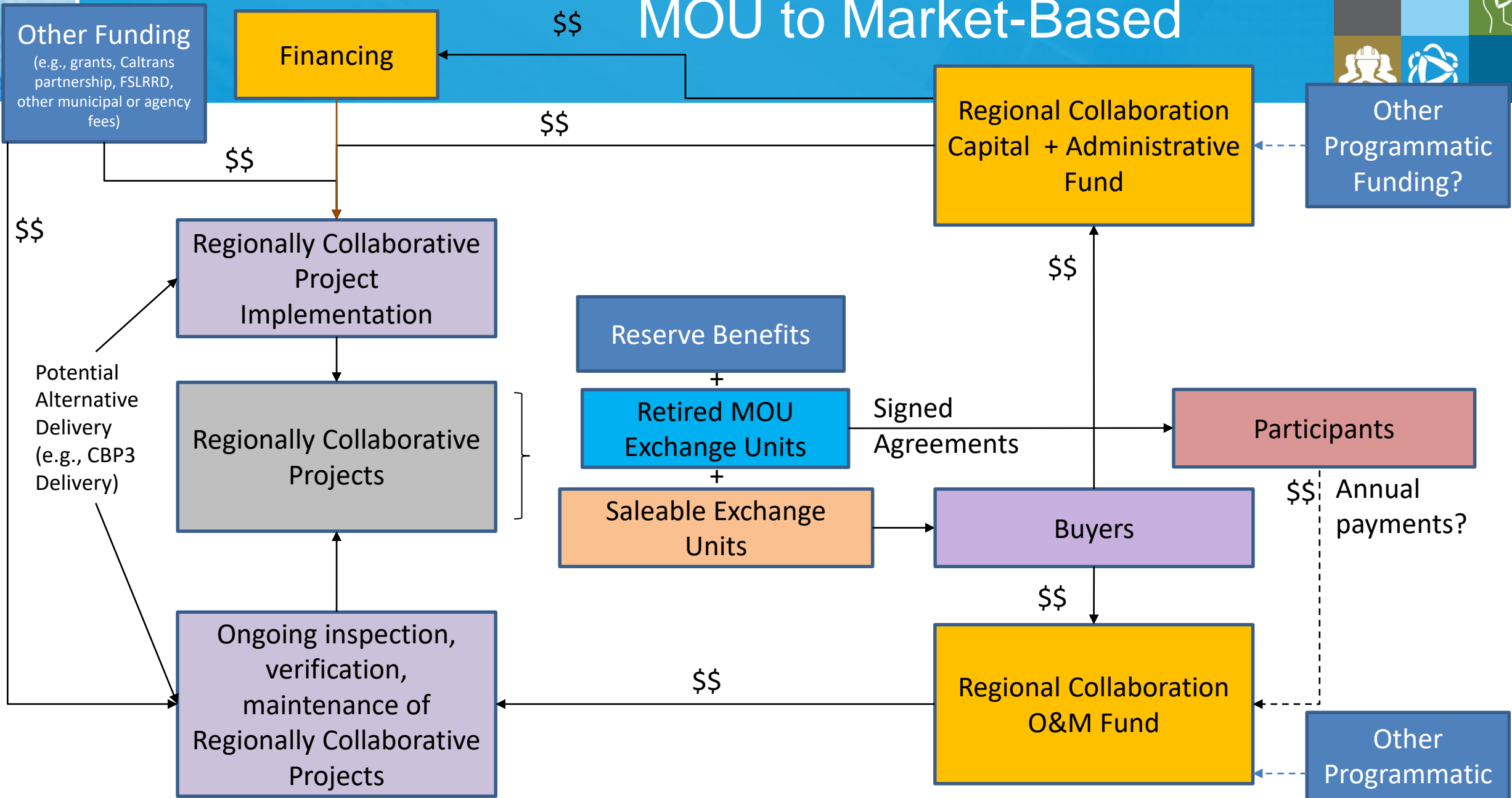
# OMP Example – MOU Approach

- Per preliminary calculation, OMP could generate approximately 424 acres greened units
- Acres greened unit cost and O&M costs developed specific to OMP
- MOU participants agree to pay for specified time frame to receive compliance credit for acres greened
- Additional projects and associated acres greened units and costs could be amended or added through separate agreement

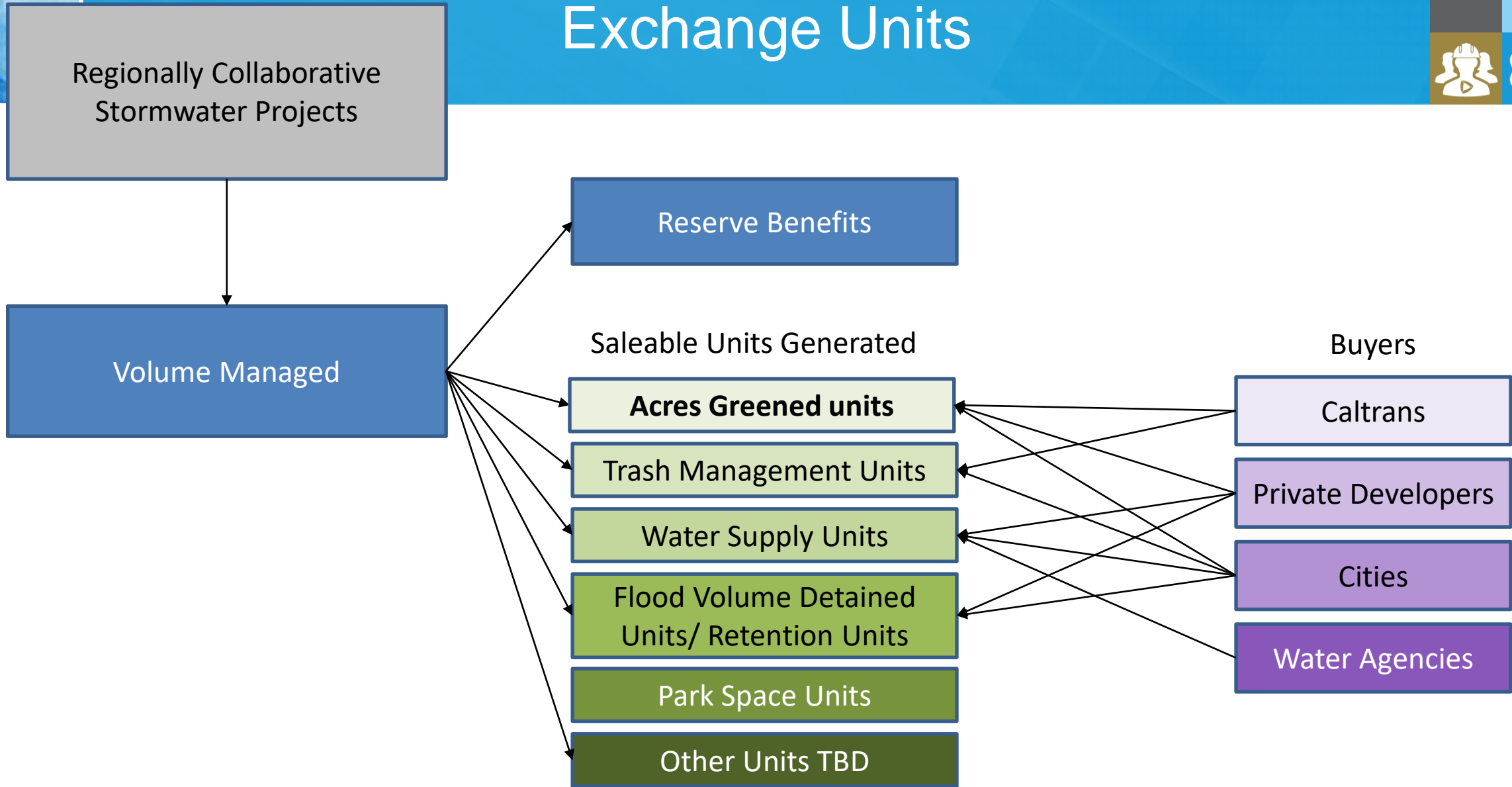
# MOU to Market-Based



# MOU to Market-Based



# Exchange Units



# Suggested Next Steps

- Identify Regional Collaborative Program Ad-Hoc Committee Members
- Create roadmap for program expansion
- Establish Program Administrator
- Identify a process for conducting legal review and receiving approval from Regional Water Board
- Define units of exchange, establish unit and O&M costs, and certification/verification processes
- Define eligible entities and create agreements for MOU approach