



SB 1157 Benefits and Impacts Study

CalWEP Winter Plenary Meeting

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California Institute for Water Resources, UC ANR

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SB 1157 Benefits and Impacts Study: Research Team



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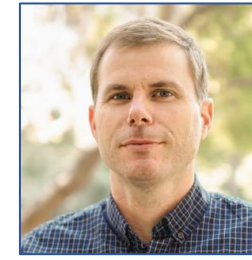
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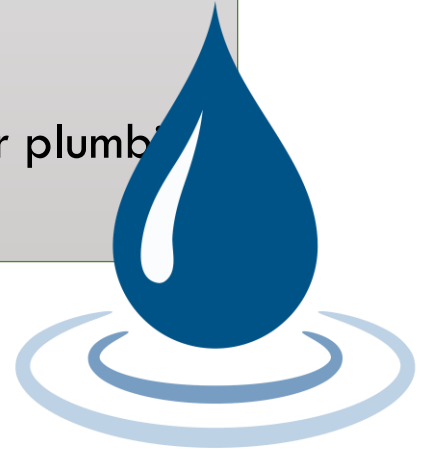
Colleen Naughton,
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Grace Harrison,
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SB 1157 (WC § 10609.4) Requirements for Analysis

1. Include saturation end-use studies.
2. Quantify the economic benefits and impacts of the 2030 Indoor Residential Water Use Standard (IRWUS) on water, wastewater, and recycled water systems.
3. Evaluate the long-term effects of telework.
4. Use **at least two years of data** reflecting application of the 2025 IRWUS (47 GPCD) to determine if the 2030 IRWUS is likely to unduly impact affordability of water and wastewater services. If so, would an alternative effective date be warranted.
5. Consider variances
6. Build on previous study of impacts on wastewater systems
7. Include timely input from interested groups (environmental groups, industry, and indoor plumbing experts)



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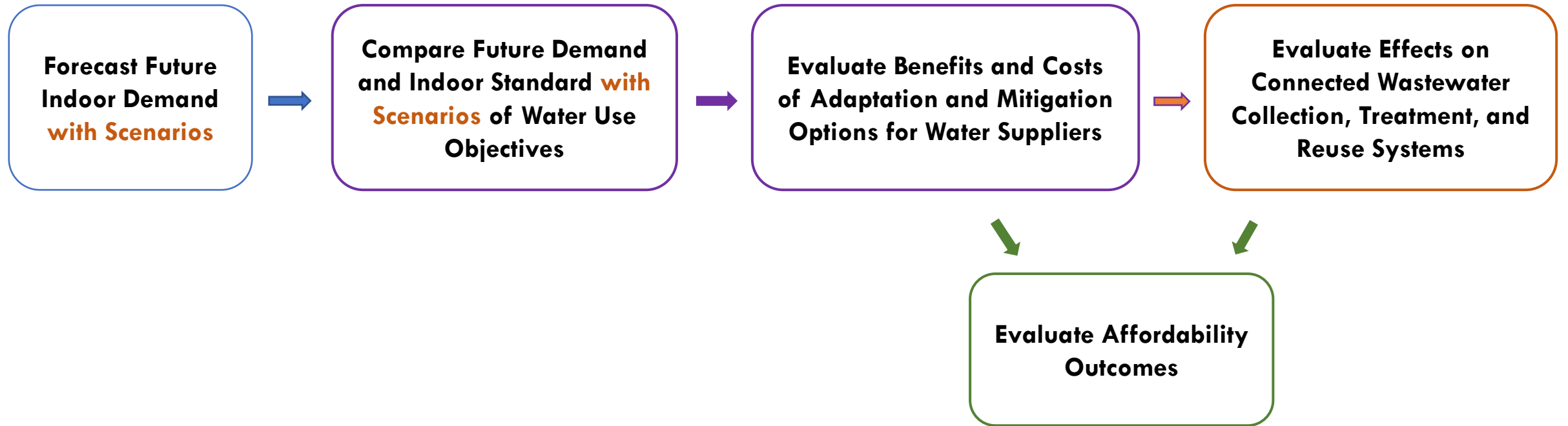
SB 1157 Benefits and Impacts Study: Goals

- 1) Update existing studies to forecast future demand through 2030 and connect water suppliers with wastewater agencies**
- 2) Improve analysis of effects on collection & treatment systems and adaptation actions**
- 3) Identify potential impacts on meeting discharge requirements**
- 4) Document operational challenges for water reuse systems**
- 5) Combine statewide modeling and case studies**



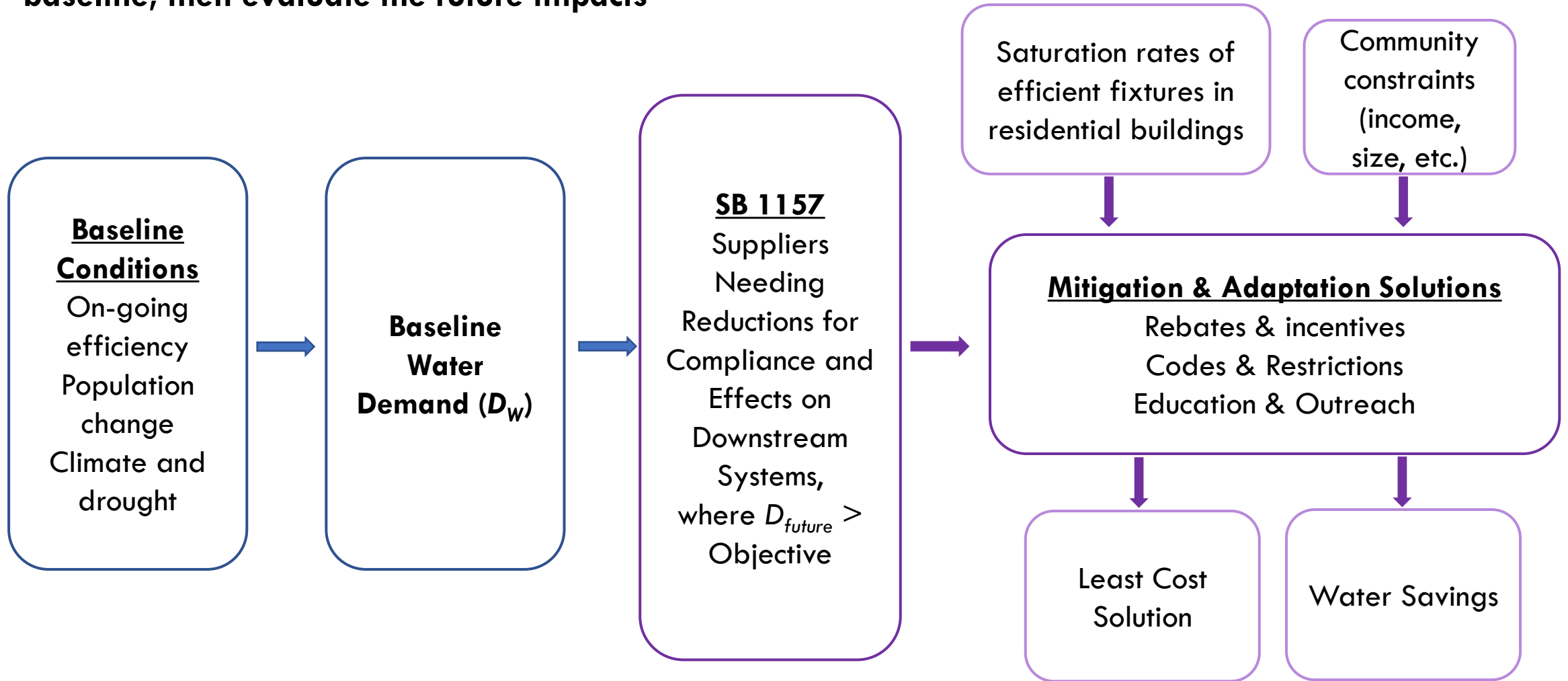
SB 1157 Benefits and Impacts Study: Workflow

Simple Overview of Proposed Workflow



Mitigation and Adaptation Actions for Suppliers

Evaluate what “will” happen with no impacts as part of a baseline, then evaluate the future impacts



Developing Scenarios for Impacts Analysis

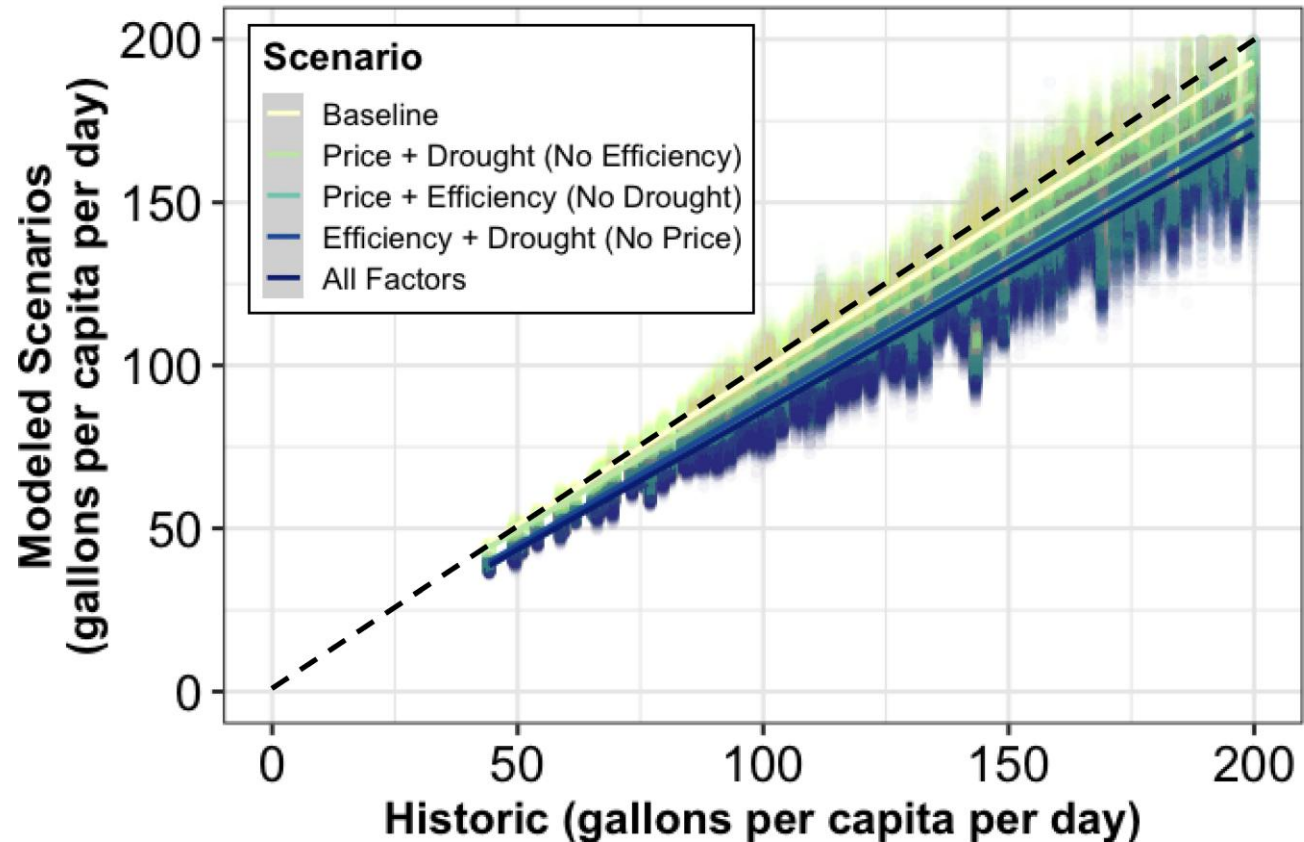
TAP and Working Group input suggested to include scenarios as part of the analysis

How much complexity?

Paper in peer-review for integrated water demand forecasting with uncertainty

- Population
- Efficiency
- Retail water rates
- Climate, drought, and outdoor water use

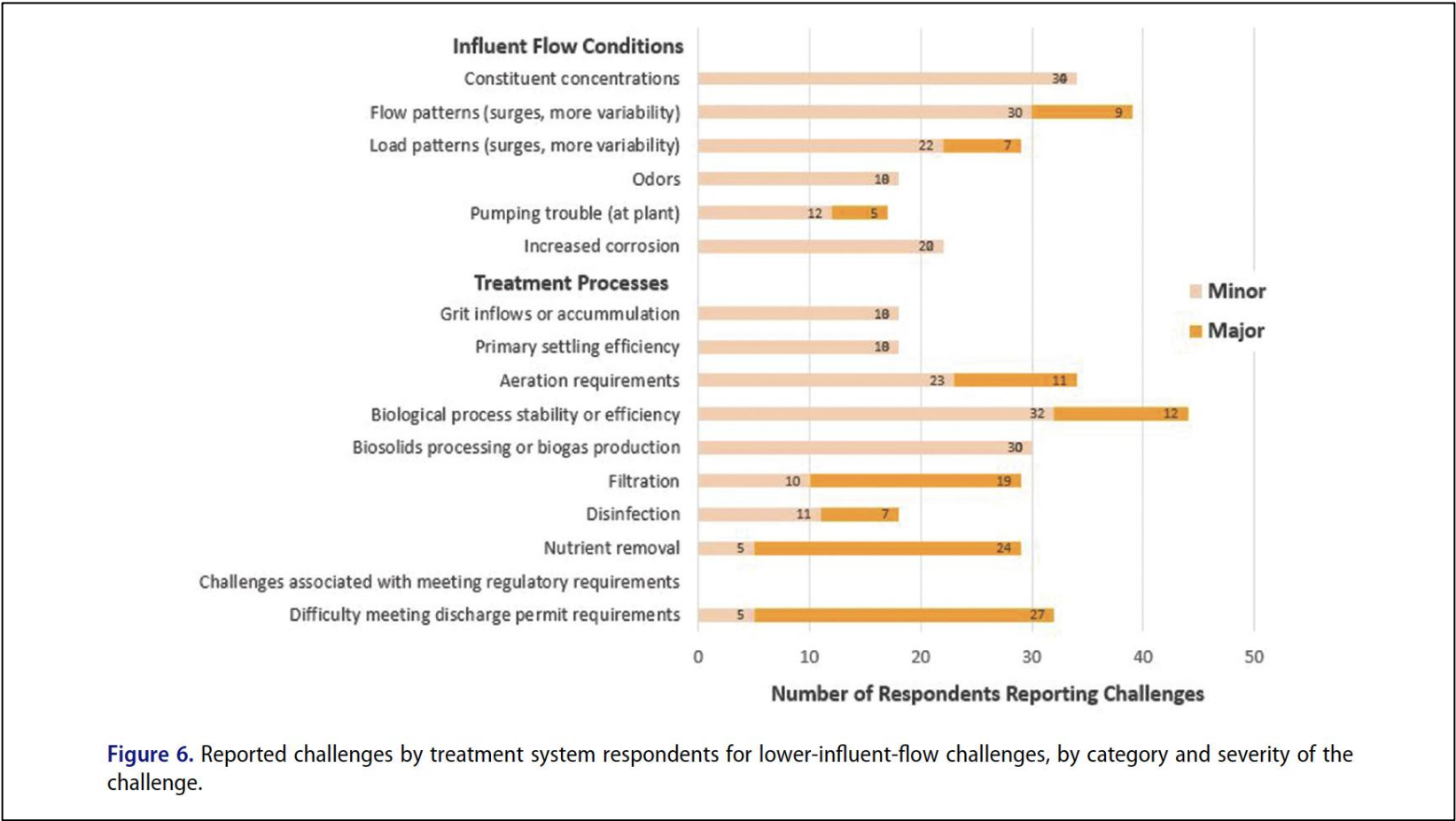
Current vs. Future Modeled Water Use (Total Demand) for California Suppliers, by Scenario



Source: Porse, Kaplan, Leverenz, Keene, Leo, et al, Under Review

Outreach for Previous Studies

Industry surveys & interviews informed methods and analysis for studies of AB 1668-SB 606



Source: Porse et al (2023)

Outreach for SB 1157 Project

Finalizing surveys and interview questions for outreach

- Water supplier outreach kickoff: December 2025
 - Future outreach planned with ACWA & other industry groups (have not reached out yet) along with regional interviews
 - Interviews to understand implementation context
- Wastewater industry outreach
 - UCLA finalizing surveys: Input from CASA, Water Reuse
 - Calls with Water Reuse California
 - Winter 2026 in-person workshop with SoCal Clean Water (Jan 29, 9AM-12PM)
- Reviewing surveys and interview questions:
 - Technical Advisory Panel and industry input on surveys (wastewater) and interviews (water supplier)
- Water Reuse case studies

Thank You

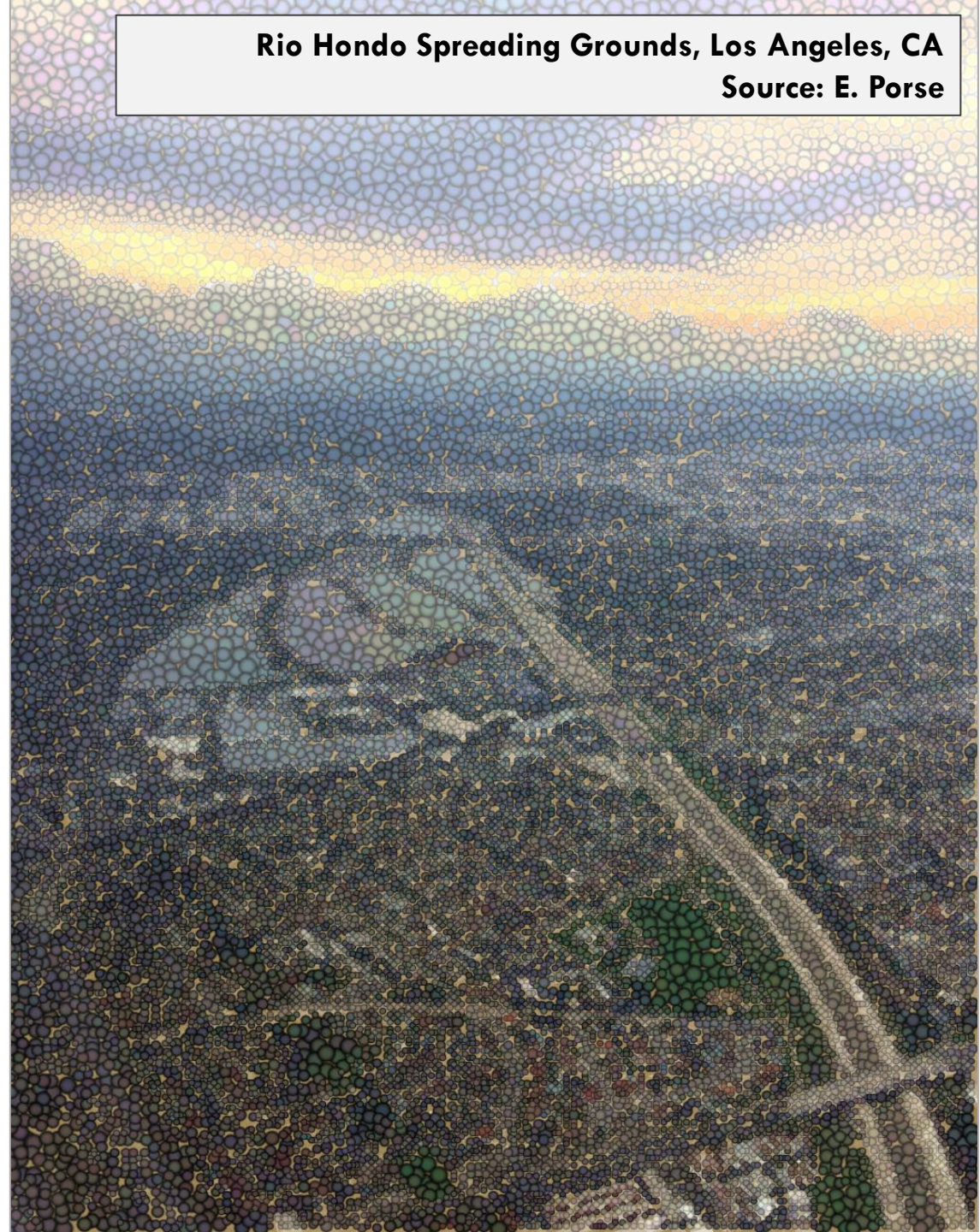
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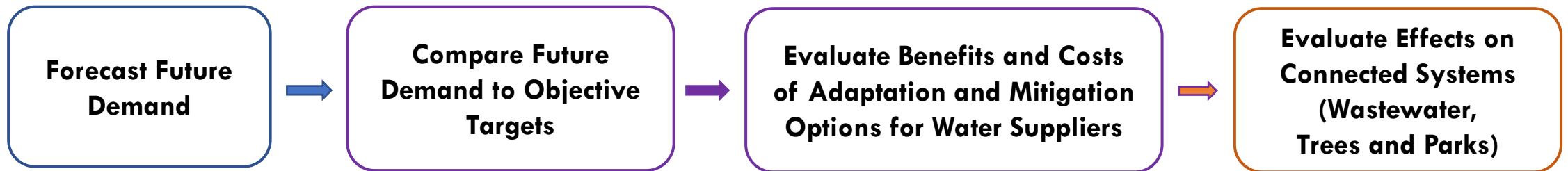
Rio Hondo Spreading Grounds, Los Angeles, CA
Source: E. Porse



Previous AB 1668-SB 606 Studies

Studies on indoor water use and economic & environmental effects of standards conducted by CA Department of Water Resources and State Water Resources Control Board

General approach used to estimate economic and environmental effects:



Available public documents: https://www.waterboards.ca.gov/conservation/regs/water_efficiency_legislation.html#background

SB 1157 Benefits and Impacts Study: Workflow

