

Engineering and Operations Committee

Item #6a

Subject: Update on Integrated Area Study and System Reliability Assessment, including the Central Pool Augmentation project

Purpose: Address questions raised about the timing of large Metropolitan CIP programs.

Engineering and Operations Committee

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Summary

In 2005, Metropolitan launched the Integrated Area Studies to improve the integration of local and regional facility planning efforts. Through a two-year process, Metropolitan and Member Agency projected future demands, identified an optimal mix of local and regional projects to meet these demands and clarified several policy issues. In 2010, Metropolitan completed the update of the Integrated Resources Plan which included a 20% reduction in per capita water usage. This reduction in demands upon Metropolitan is expected to shift the need for new regional facilities further into the future and yield near-term savings in capital spending.



Update on Integrated Area Study & System Reliability Assessment, including Central Pool Augmentation Project

Engineering and Operations Committee

Item 6-a

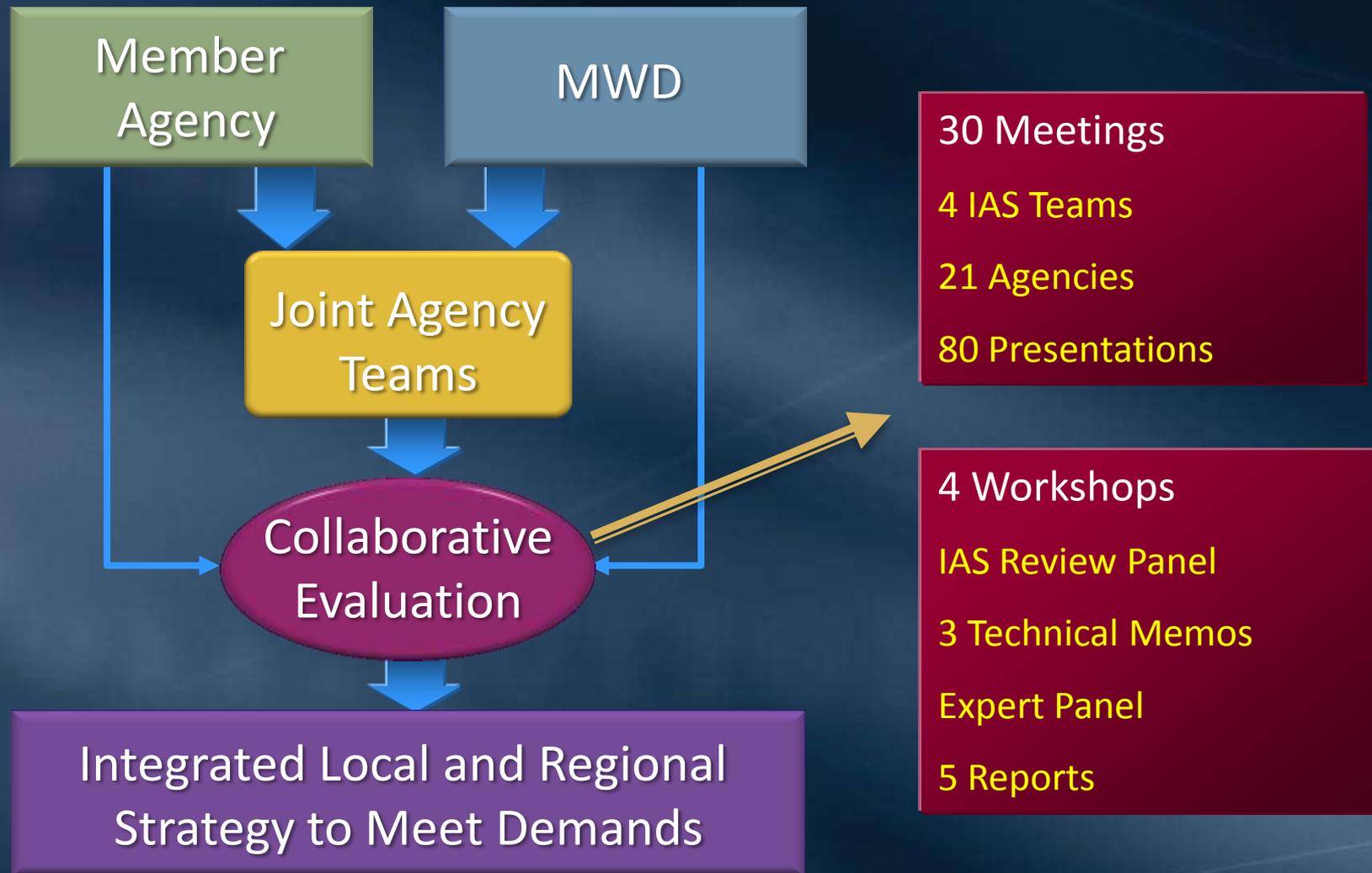
July 11, 2011

Integrated Area Study (IAS)

Objectives

- Determine the need and timing for future regional facilities
- Identify specific local projects that will be implemented within the planning horizon
- Seek opportunities to coordinate operations and maximize the use of existing facilities

IAS Collaborative Process



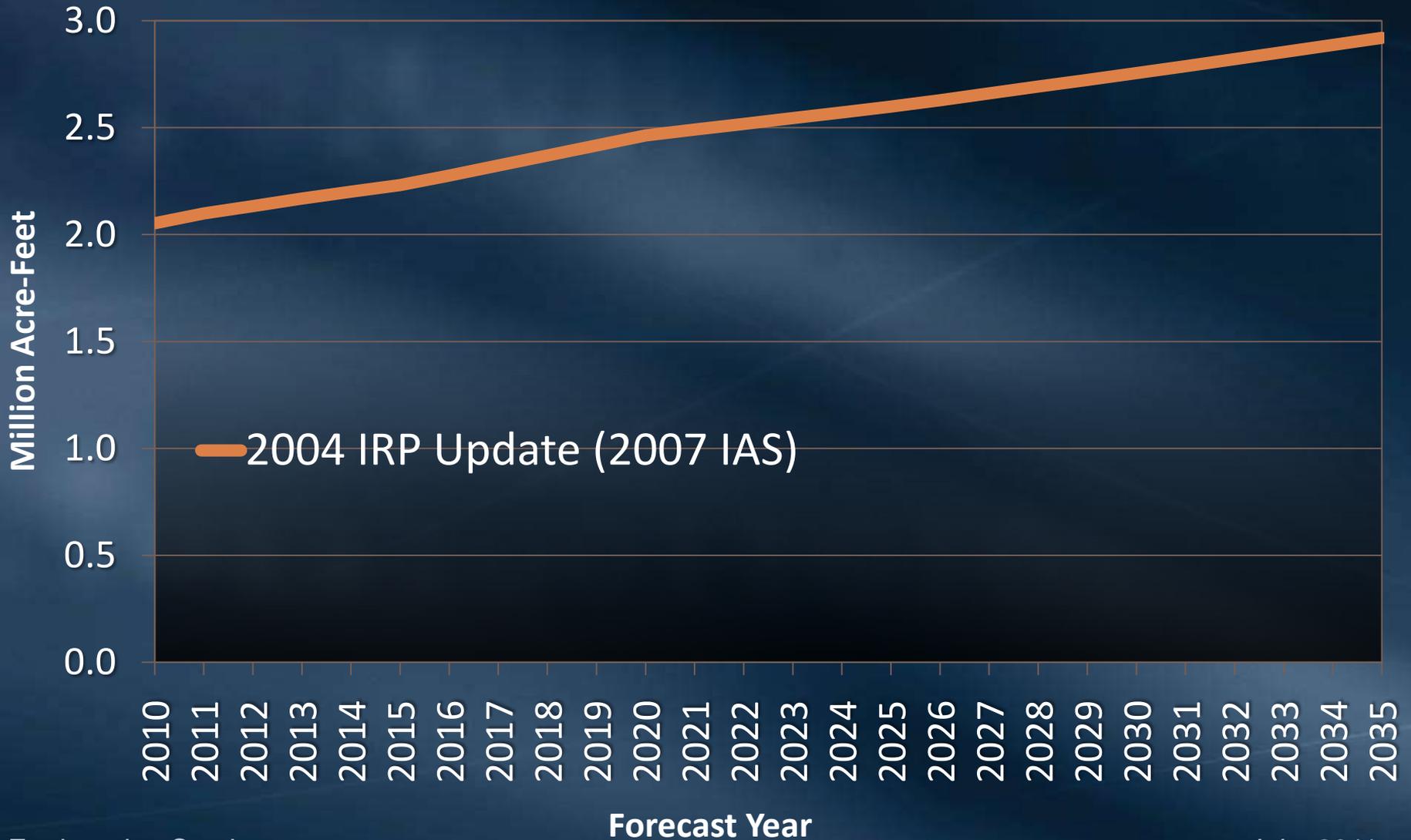
IAS Collaborative Process



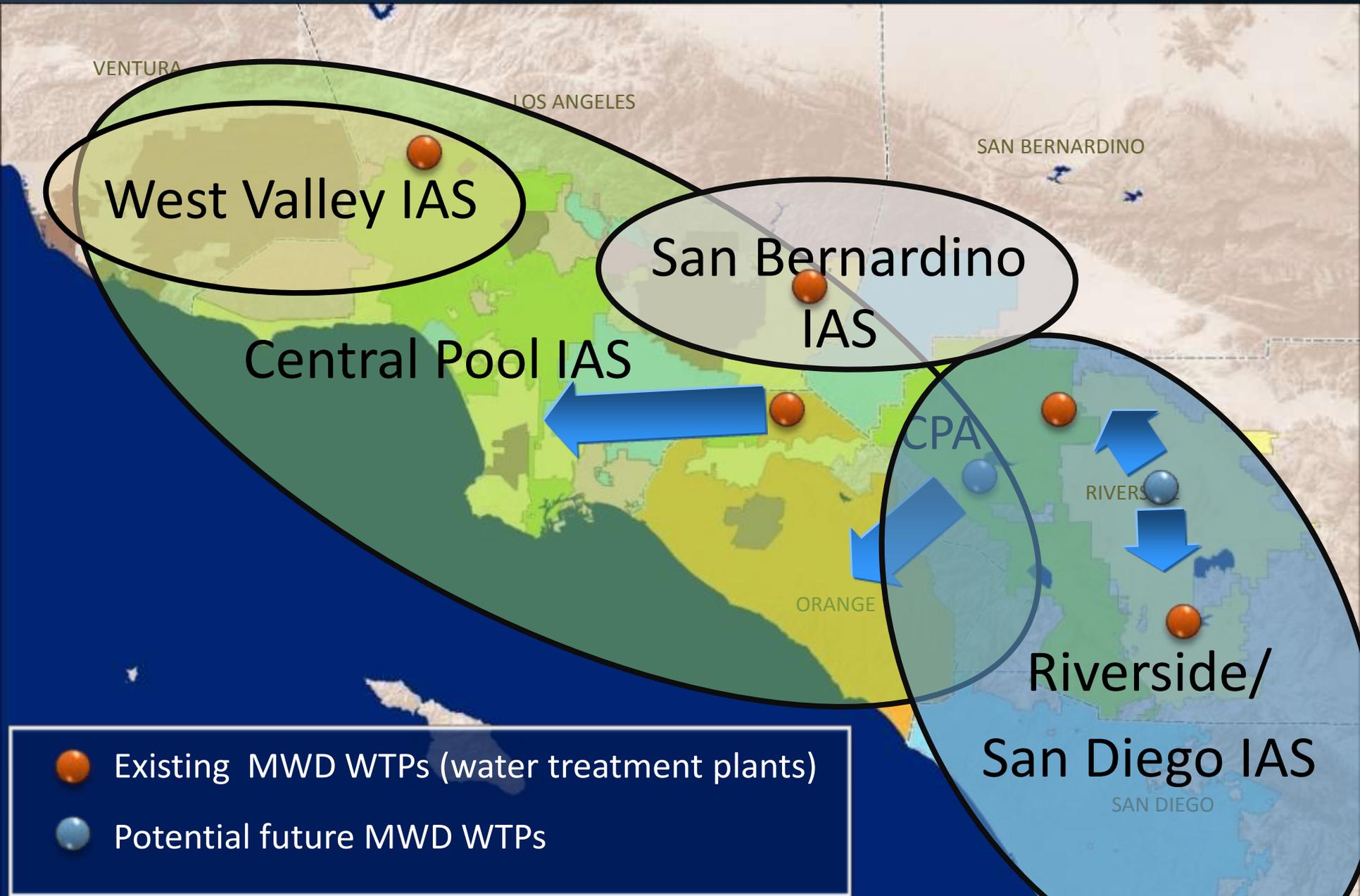
Key Factors in IAS

- Member agency demands
- Peaking characteristics
- Regional demand projections
- System capacity constraints
- Operational constraints
- Policies issues

Projected Normal-Year Demands on Metropolitan



IAS Load Areas



2007 IAS Project Timing

WTP and Conveyance

CPA Project

>2040

Riverside WTP

2026

(Balanced Mills/Skinner demands)

Conveyance only

Rialto

>2040

West Valley

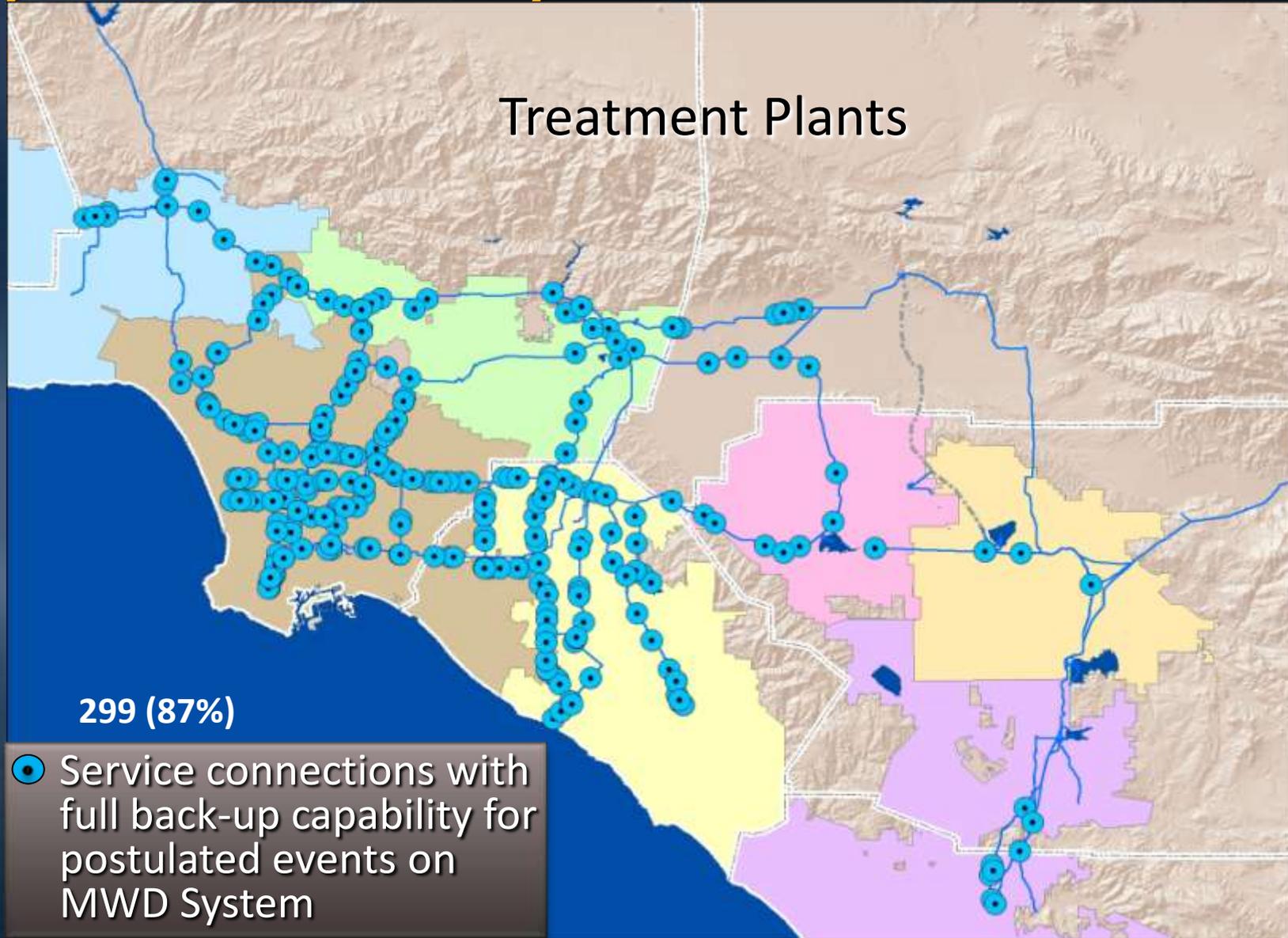
2037

IAS Policy Clarifications

Topics

- Service Connections ✓
- Facility Implementation ✓
- Reliability ✓
- Introduction of Local Water Open

System Reliability Assessment

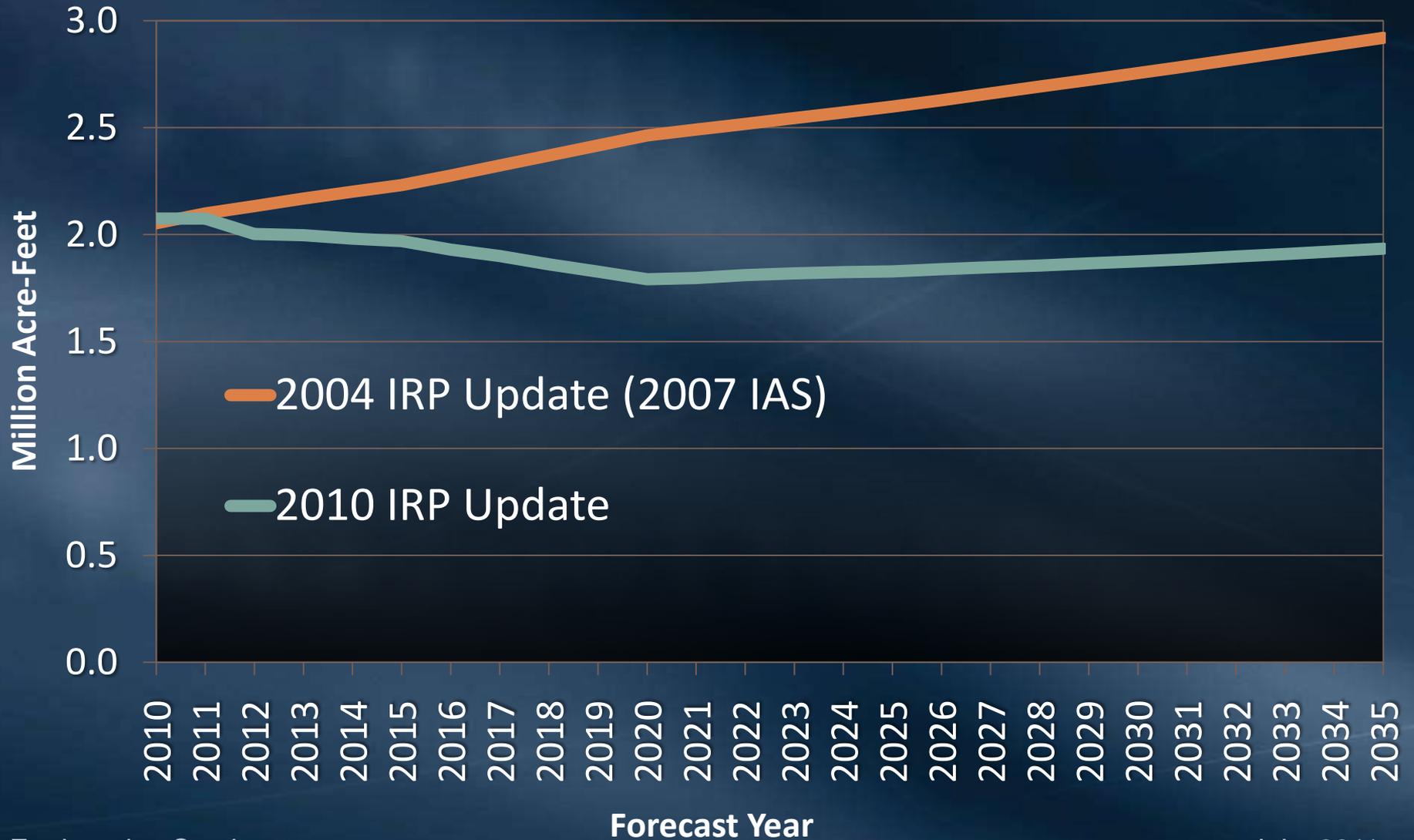


Project Timing is Affected by Demands

2010 IRP Update

- 20% reduction in per capita water use
 - Focus on local resources
- Impact of recession and other factors

Projected Normal-Year Demands on Metropolitan



Financial Impacts of Project Deferrals

Demand-driven Projects

10-year CIP
(2008/09 – 2017/18)

Total
Expenditure

2007 IAS

\$427 M

2010 IRP Update

\$384 M

Savings

\$43 M

