



Update on 2020 Integrated Resources Plan Process

Integrated Resources Plan

Item 2a

February 25, 2020

Overview

- Integrated Resource Plan (IRP) Background
 - Completion of a full planning cycle
 - Introduce scenario planning
- Introduce 2020 IRP process
- Identify Major Policy Areas
- Feedback on Both Process and Policy

IRP Background

A Full Planning Cycle is Now Complete

The IRP Establishes a 25-Year Plan for Reliable Water Service

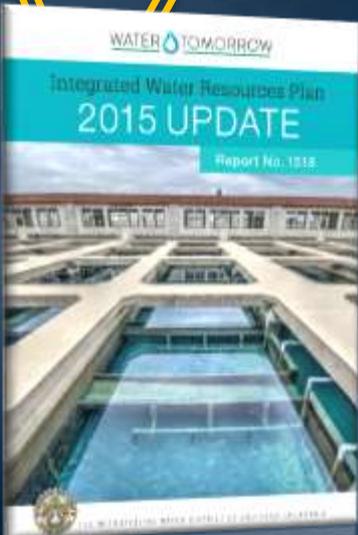
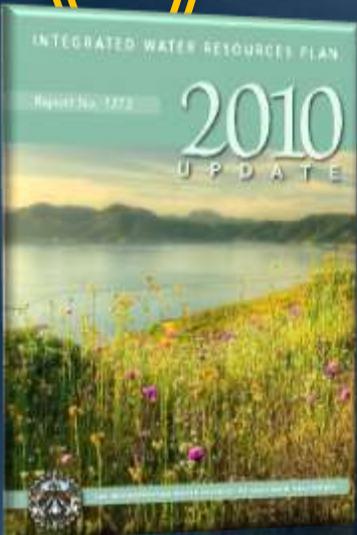
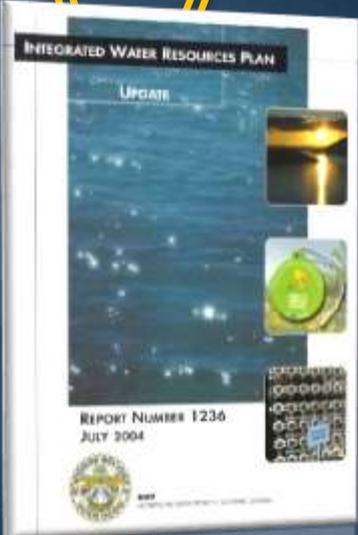
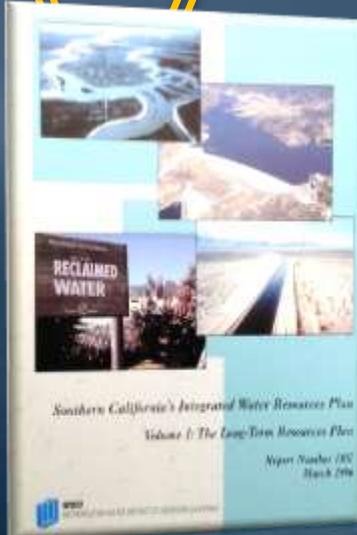


Identifies and aligns resources, needs, and opportunities for the region

IRP Informs Other Plans and Policies



2020 Completes a Full Planning Cycle



Integrated Water Resources Plan

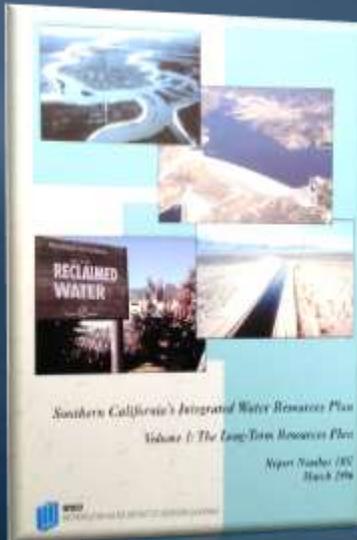


- 1987 – 1992 Drought was a wake-up call
- American Assembly Process: Metropolitan is Southern California's lead agency in regional water management

1996

Backdrop

Outcome



Integrated Water Resources Plan

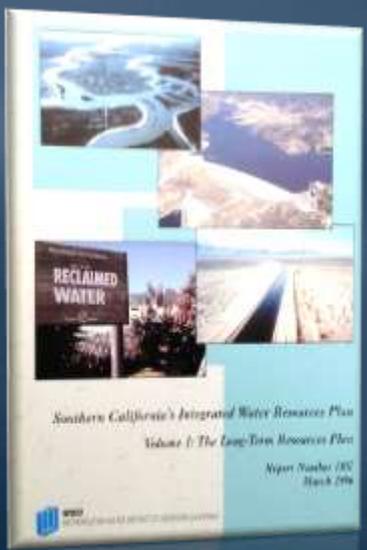


1996

For illustrative purposes only

Time

Backdrop
Outcome



1996: Avoid Unsustainable Import Growth

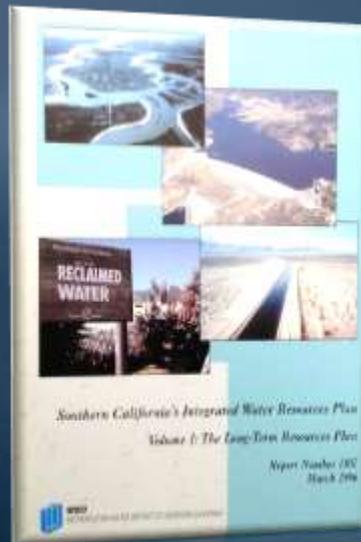


1996

For illustrative purposes only

Backdrop

Outcome



- Slow increasing dependence on imported supply
- Diversified water resource portfolio
- “Preferred Mix” = balance of demand management and imported/local supplies

Updated IRPs Addressed Uncertainties

● 2004

- Increased targets for conservation & local supply development
- Added 500 TAF planning buffer

● 2010

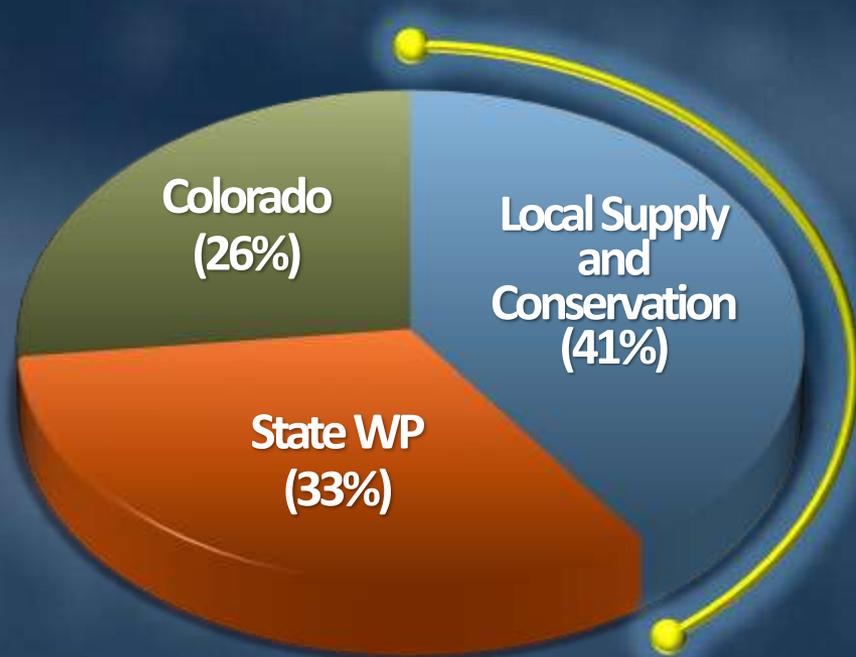
- Adaptive management strategy
- Implement supply buffer
- Future supply actions

● 2015

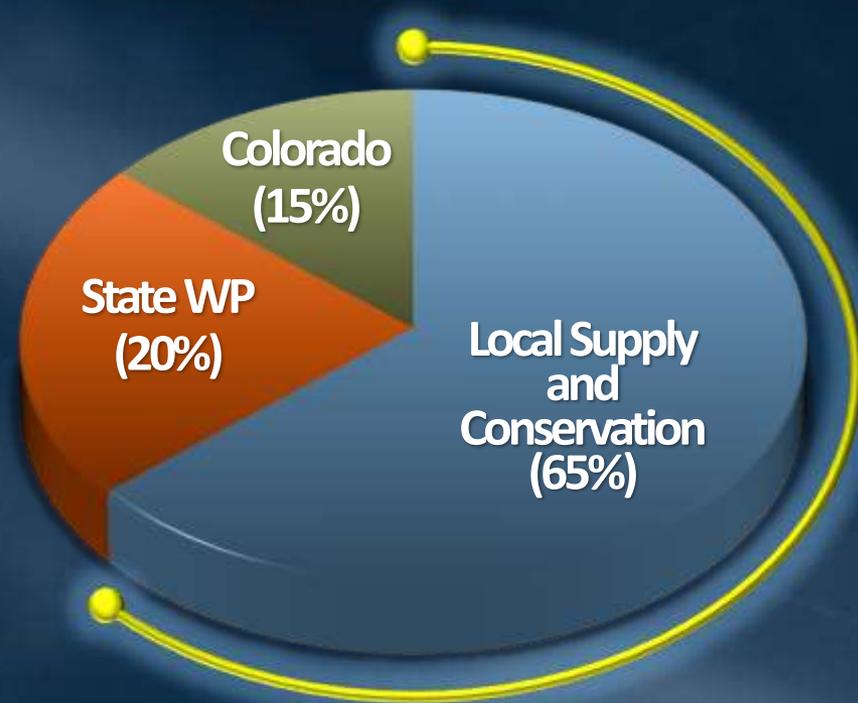
- Set goals for Colorado River Aqueduct deliveries in normal and drought years
- Sustain and develop new local supplies
- Increased conservation goals focusing on reduced outdoor water use



The IRP Changed Southern California's Supply Mix



1990



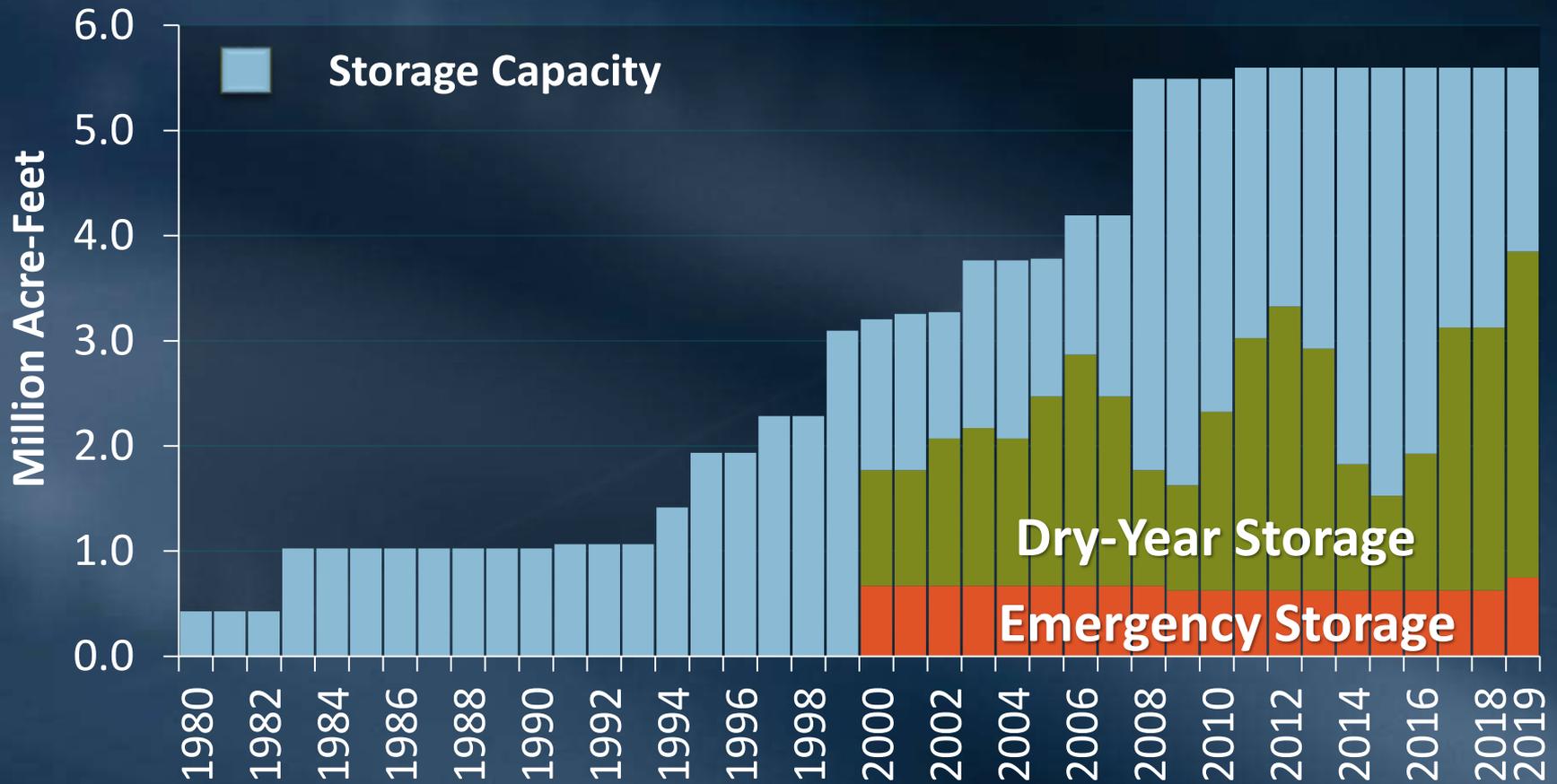
2040

Lessons from a Full Planning Cycle

What worked well?

- Diversification through water use efficiency and local supply development
- Investments in storage
- Transfers and exchanges on Colorado River
- Investments in distribution and treatment
- Consumers responded to outreach and calls for conservation

Storage Provided Regional Benefit



Lessons from a Full Planning Cycle

What did not work as well?

- State progress to improve SWP infrastructure
- SWP transfer market never materialized
- Regional investments in local supplies offset by groundwater losses
- Local supply estimates overly optimistic

Lessons from a Full Planning Cycle

What did not work as well? (cont.)

- State stepped in despite regional reliability investments
- Demographic assumptions overestimated population growth and associated demand
- Some local areas could not utilize imported supplies when available

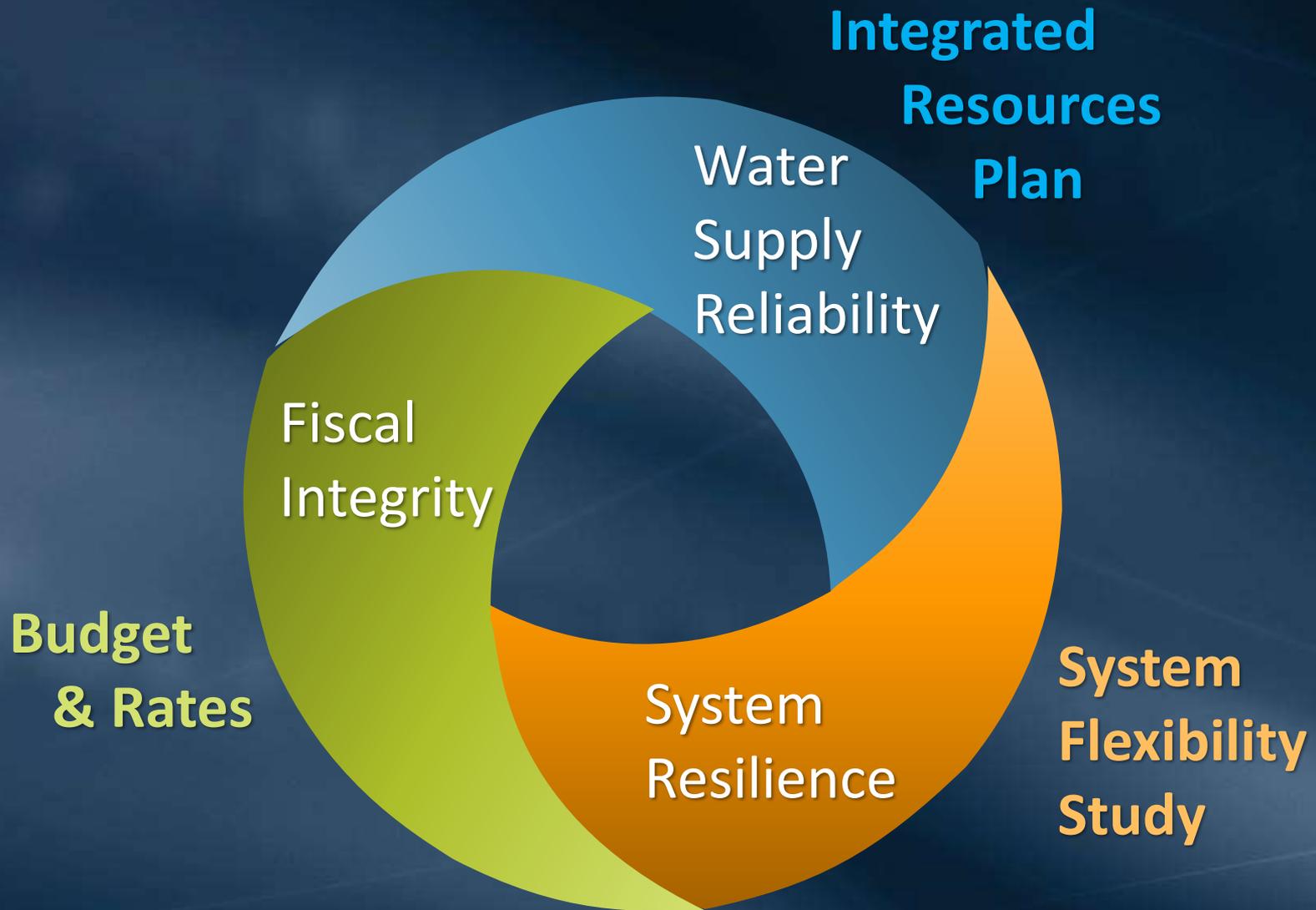
2020 IRP Process

A New Vision
Built Upon Lessons
From Full Planning Cycle

Main Objectives of 2020 IRP

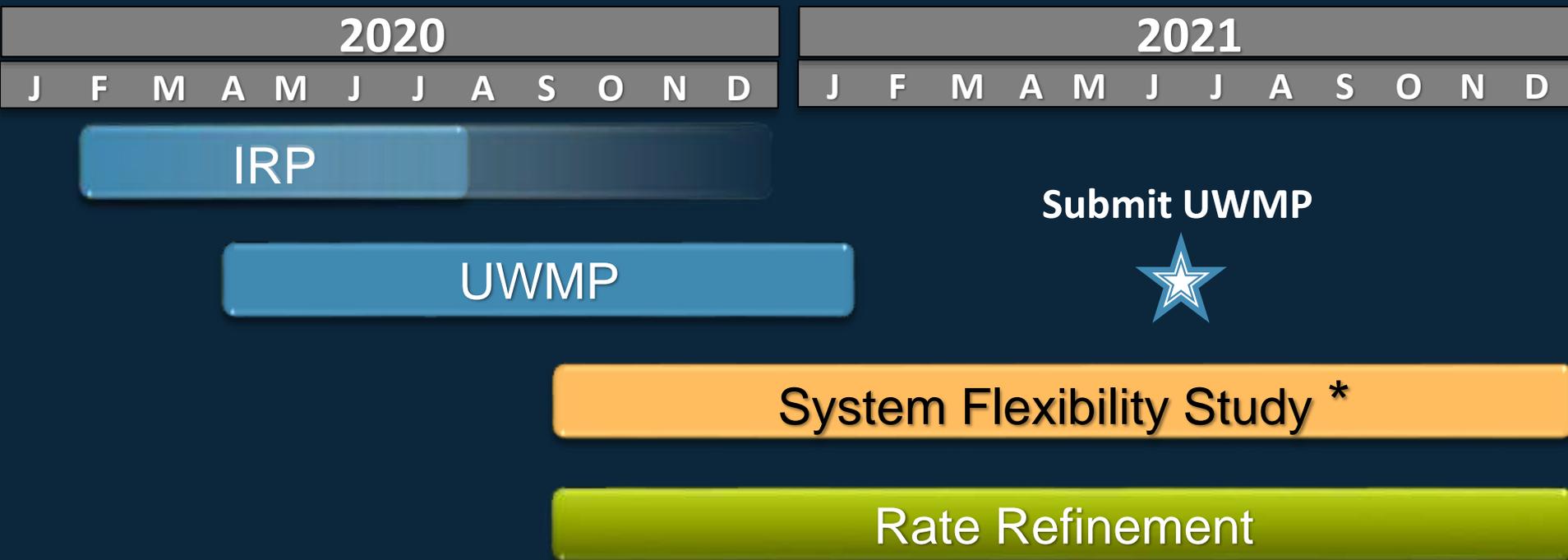
- Embed policy development in process
 - Utilize simple broad assumptions to start policy discussion
 - Technical analysis is updated in the background
- Assessment of uncertainties
- Produce accessible & explicit technical analysis
 - Demands
 - Climate Change
- Expand on adaptive planning approach
- Public outreach

Planning Efforts are Interrelated



Schedule Overview

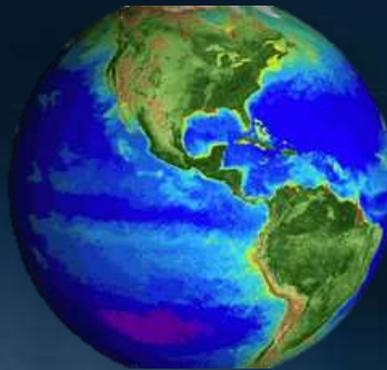
General sequence of activities



* Process will depend on active member and local agency engagement



**Groundwater
Contamination**



**Climate
Change**



**Low
Demands**

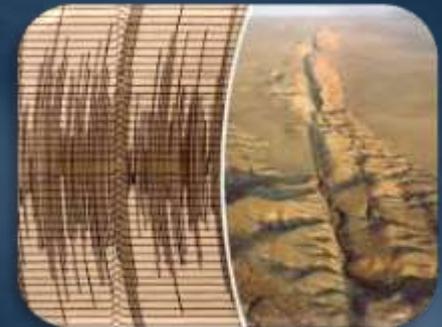
Living with Uncertainty Has NOT Changed



**Environmental
Regulations**



**Aging
Infrastructure**

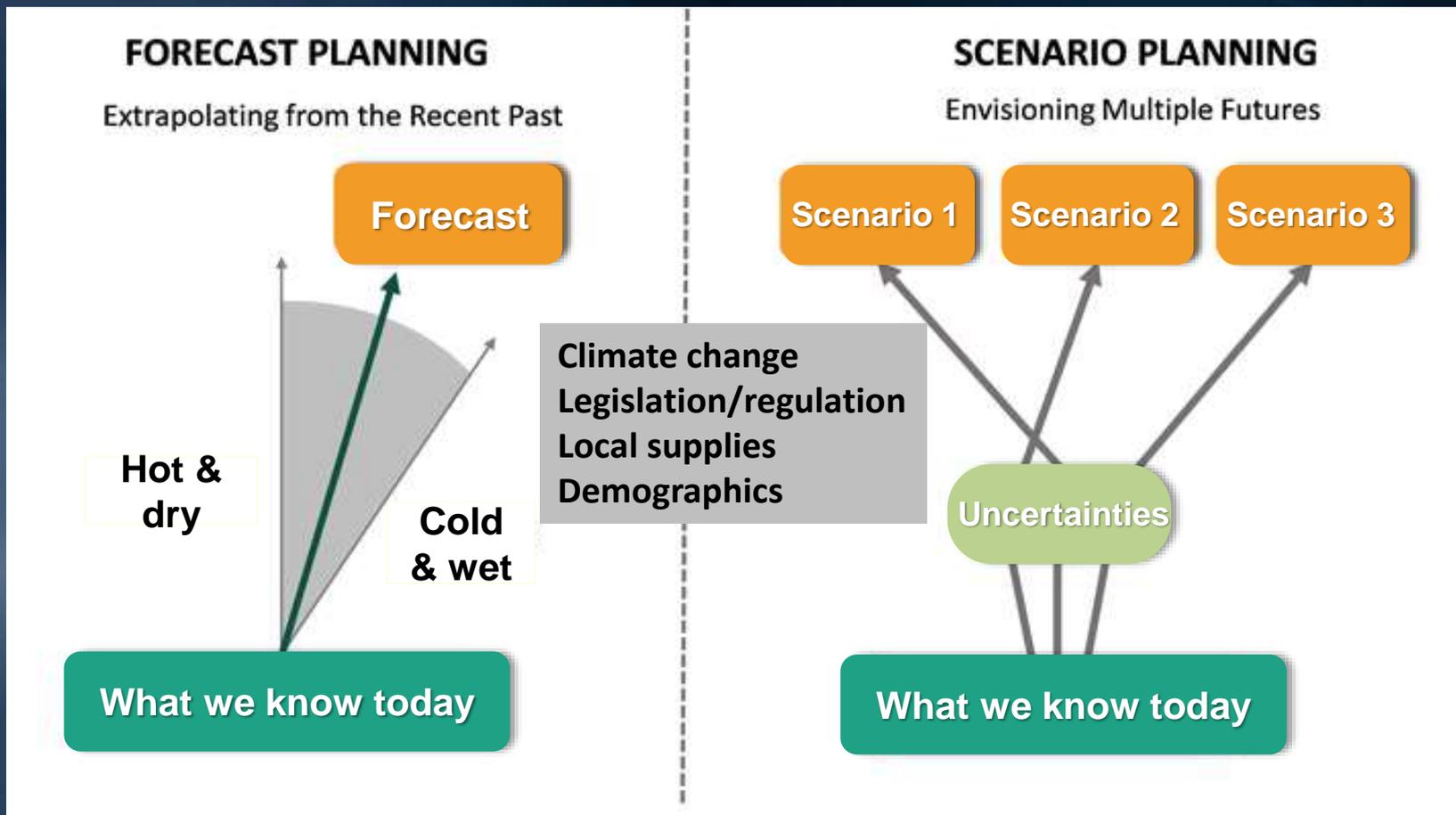


**Seismic
Risk**

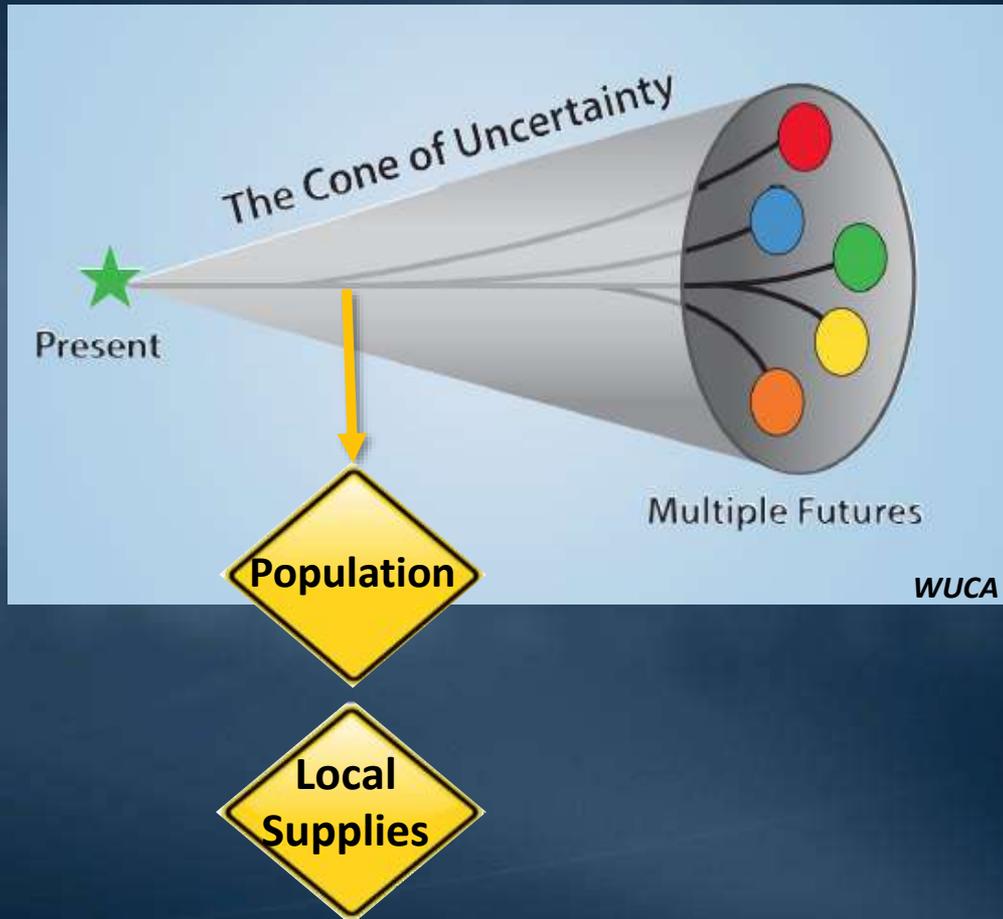
Use Scenario Planning

Not Predictive Forecasts

How is Scenario Planning Different?



Building and Analyzing Scenarios



1. Stakeholders identify areas of uncertainty and possible futures
2. Expert panels help inform scenario building process
3. Draft staff analysis identifies common actions
4. Staff identifies signposts to monitor plan for adaptive management
5. Stakeholders & expert panels review analysis for refinement

Use of Expert Panels

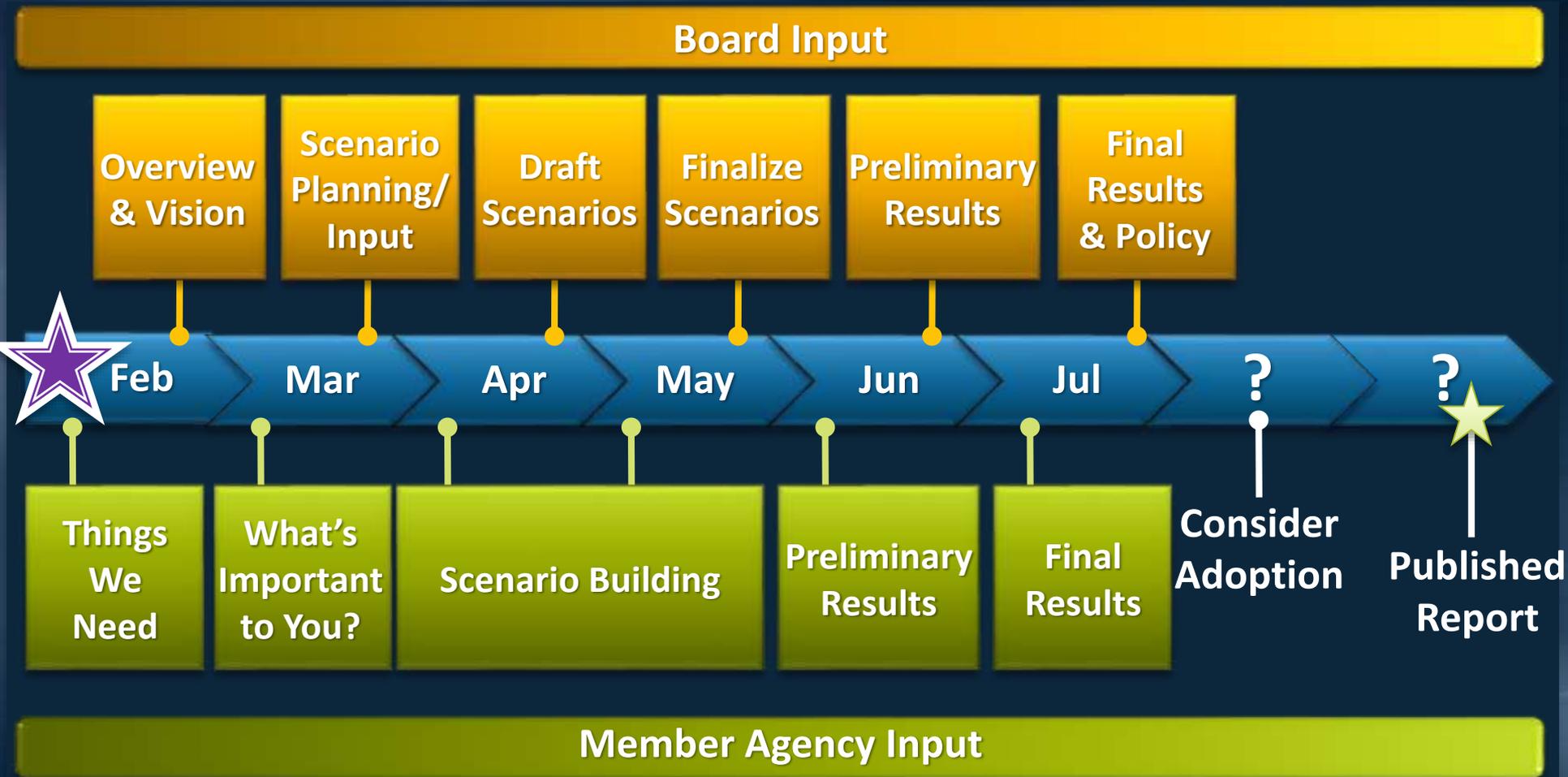
- Identify and Contract with Two Panels
 - Water demand
 - Climate change
- Panels Help Inform Scenarios and Analysis
 - First Task
 - Inform scenario building process
 - Insight into signposts and mitigation
 - Second Task
 - Provide feedback on draft analysis



Conceptual Outreach Effort



IRP Proposed 2020 Schedule



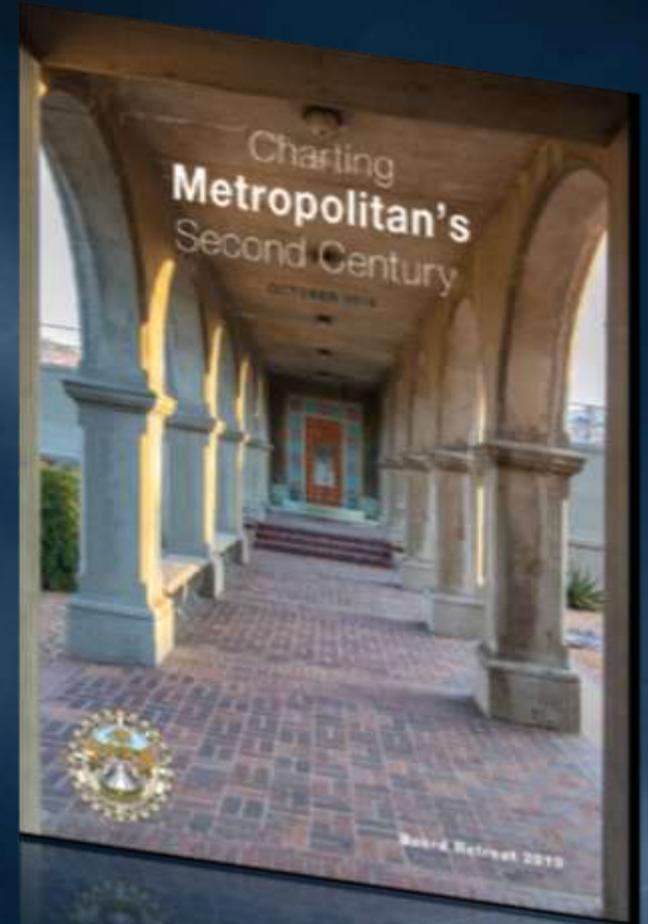
Questions?

Completion of Planning Cycle
&
IRP Process

Policy Discussion

Major Focus of 2020 IRP

IRP Policy Discussions Began During 2019 Board Retreat



IRP Will Address a Potential Crossroads

Prevent
Rolling-
On



Managing
Success
(in the
near-term)



Policy Topics



- What level of water supply reliability should Metropolitan target for the region?
- Should Metropolitan assume a new role in assuring that local agencies can fully access the regional network? (Resilience)

Sample Resilience Definitions



- The ability to anticipate, prepare for, and adapt to changing conditions and withstand and recover rapidly from disruptions. (U.S. Presidential Policy Directive #21, 2013)
- The capacity to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks are experienced (Welsh Water Resilience Framework, 2014).
- The ability to absorb, accommodate, or recover from the effects of a hazardous event in a timely and efficient manner, including through ensuring the preservation, restoration, or improvement of its essential basic structures and functions (SB 45 “Resilience Bond”, 2020)
- The ability of a system to absorb and rebound from shocks (MWD Seismic Resilience First Biennial Report)

Policy Discussion (cont.)



- What role should Metropolitan take in assisting the region to plan for and comply with water conservation legislation?
- How should Metropolitan account for member agency local supply plans and incorporate potential Regional Recycled Water Program?

Policy Discussion (cont.)



- As supplies and demand come into balance for the region, should Metropolitan continue to fund water efficiency and local projects at the same level as now?

Questions?

Completion of Planning Cycle
IRP Process

Next Steps/Feedback

- Incorporate Feedback
 - Process
 - Policy questions
- Kick-off Scenario Planning with Member Agencies on March 13
- Return to IRP Committee on March 24
 - Scenario planning

