Integrated Resources Planning Committee

Item #3b

Subject: Overview of the 2010 IRP Update

Purpose: This presentation provides an overview of the 2010 IRP Update

IRP Committee/March 24, 2015

Integrated Resources Planning Committee

Item #3b

Summary

This presentation provides an overview of the 2010 IRP Update process, approach, targets, and outcomes.

Overview of the 2010 Integrated Water Resources Plan Update

Integrated Resources Planning Committee
Item 3b
March 24, 2015


Integrated Resources
Planning

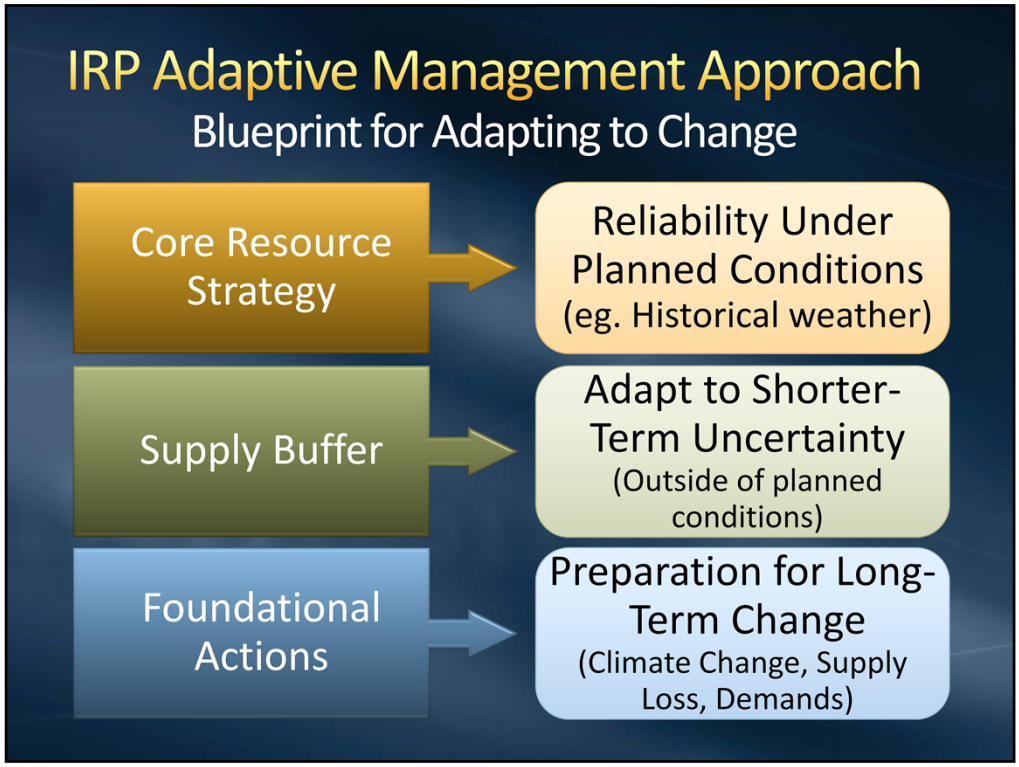
Metropolitan's IRP

- Provides a long-term plan out through 2035
- Develops regional goals for water supply and demand management
- Sets a framework for the development of implementation approaches
  - Conservation/WUE Strategy
  - Local Resources Partnerships
  - Imported Supply Development
  - Storage Management

The Integrated Resources Plan Reliability Goal

1996 IRP and 2004 IRP Update:

"Through the implementation of the IRP, Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions"


IRP Adaptive Management Approach
Blueprint for Adapting to Change
Core Resource Strategy
Supply Buffer
Foundational Actions
Reliability Under Planned Conditions (eg. Historical weather)
Adapt to Shorter-Term Uncertainty (Outside of planned conditions)
Preparation for Long-Term Change (Climate Change, Supply Loss, Demands)

Water Use Efficiency
Conservation and recycling to achieve a 20% reduction at the regional level
Commitment is above and beyond 20x2020 legislation

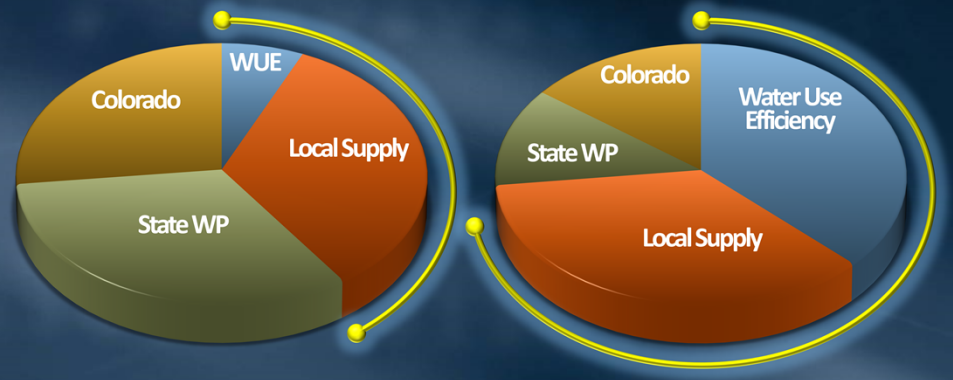
Local Resources
Sought to develop just over 100 TAF of additional local supplies through groundwater recovery, seawater desalination, and recycling

State Water Project
Pursue short, mid, and long-term improvements to help stabilize delta supplies
Short-term examples: emergency preparedness actions, Complete BDCDP
Mid-term examples: Implement BDCP, implement flood control protection
Long-term examples: Water supply conveyance, ecosystem restoration

Colorado River
Continue to develop dry-year supply programs on the Colorado River System
Provide flexibility in conjunction with Lake Mead ICS to provide a full CRA as needed

Diversification of Water Portfolio

Integrated Water Resource Plan (IRP)



Early 1990's

Heavy dependence on imported supplies

2035 IRP Strategy

Emphasis on conservation, recycling, & local supplies

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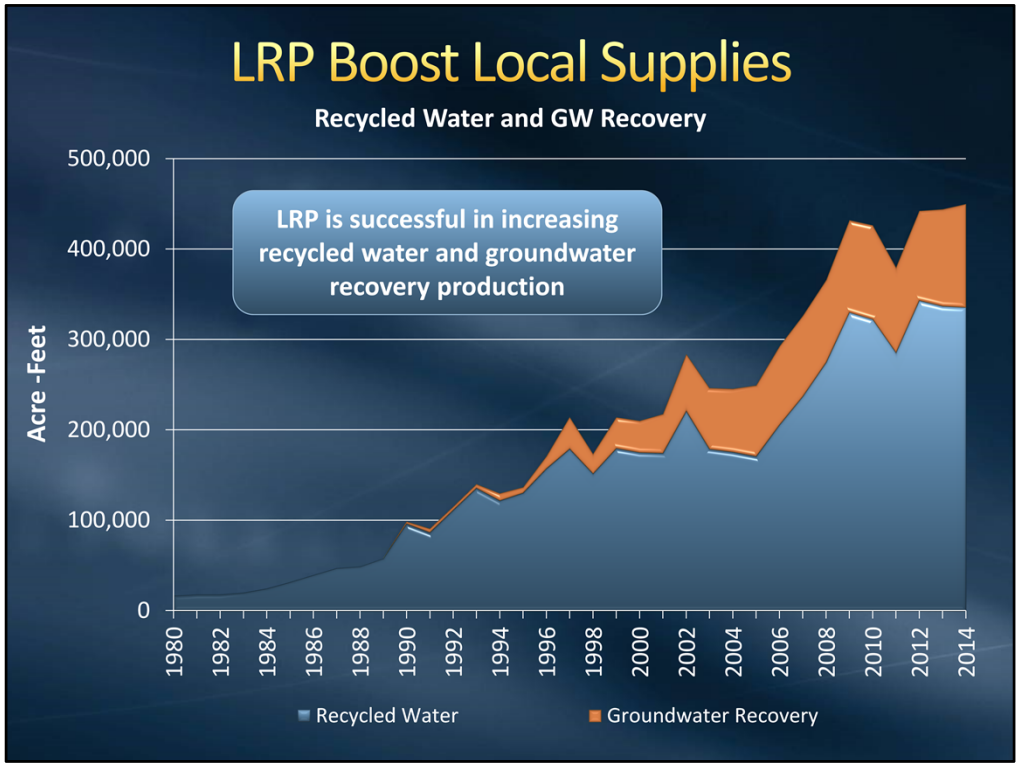


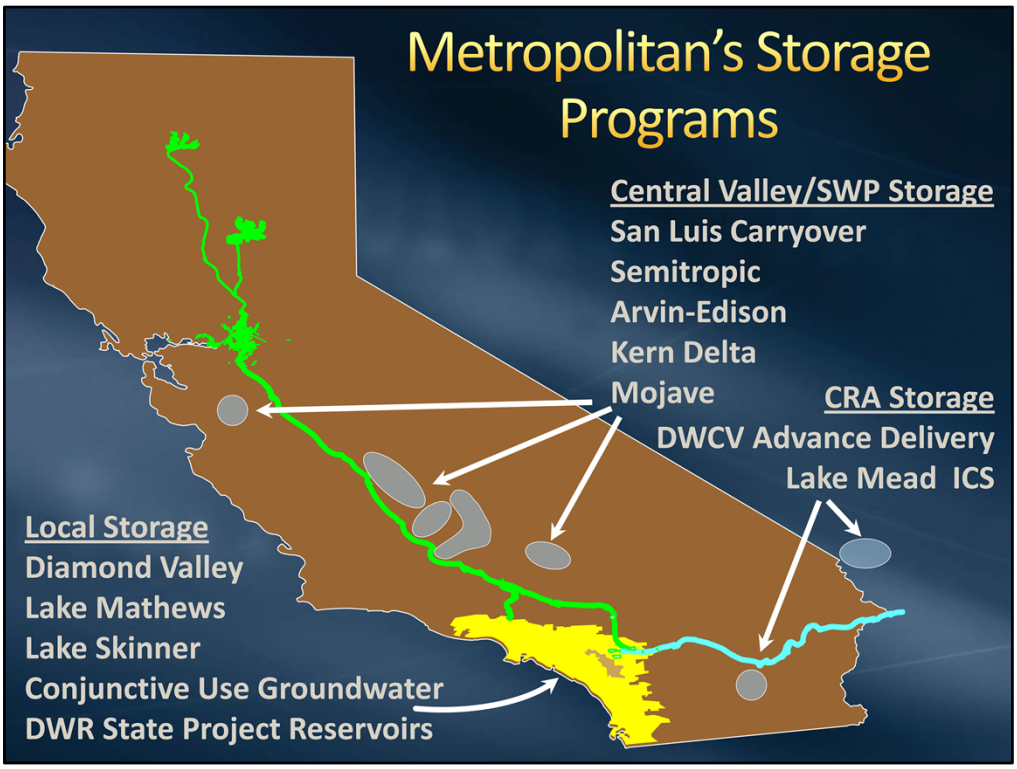
Let's look at the impact of the LRP.

This graphic shows the development of RW and recovered GW.

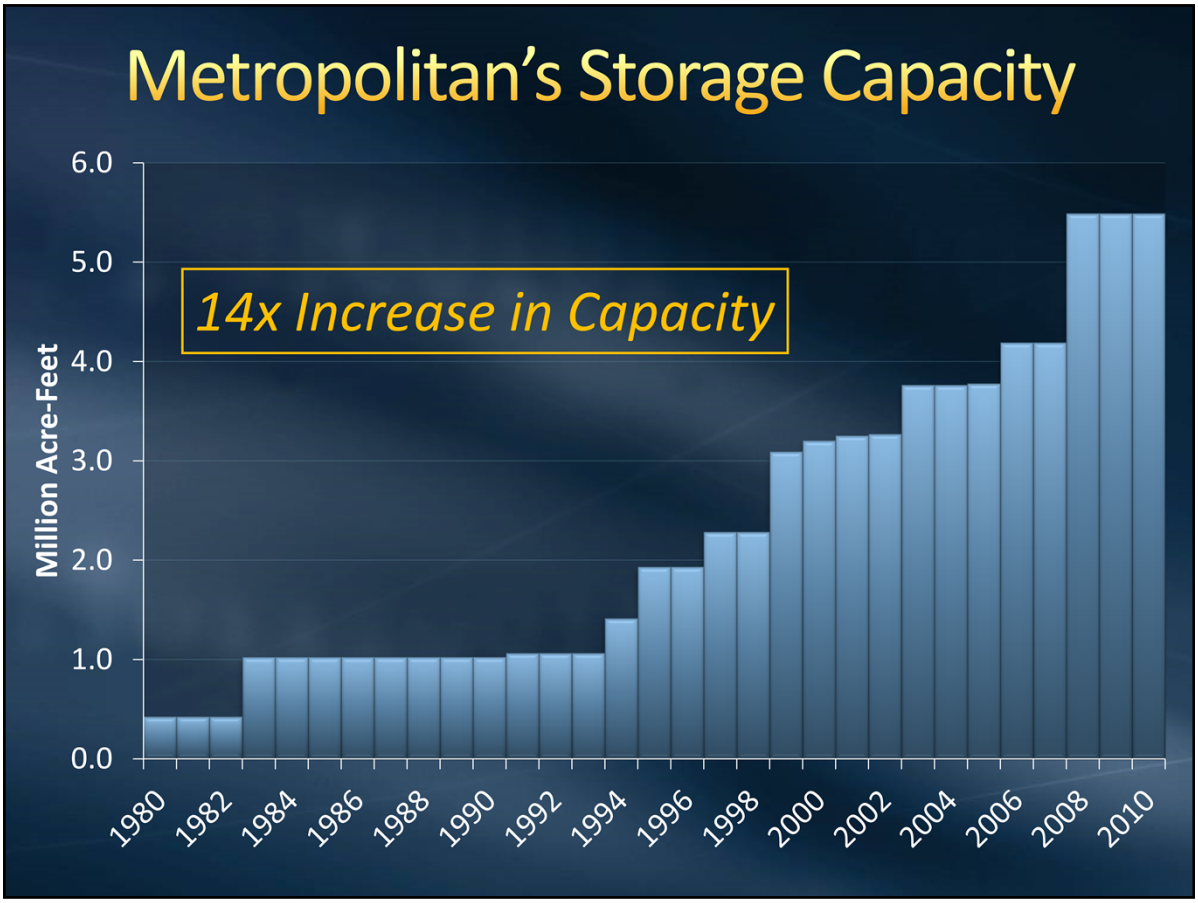
Since 1982, the program has successfully increased production of our local supplies.

More than half of the recycled water and recovered groundwater shown here is as a result of the LRP.

So now lets look at the impacts of this development on our local supplies…..



Metropolitan has a number of storage programs inside & outside of the region. Partnerships have been developed with Central Valley agencies to store water. Several have been developed in recent years, and we have added additional programs this past year.

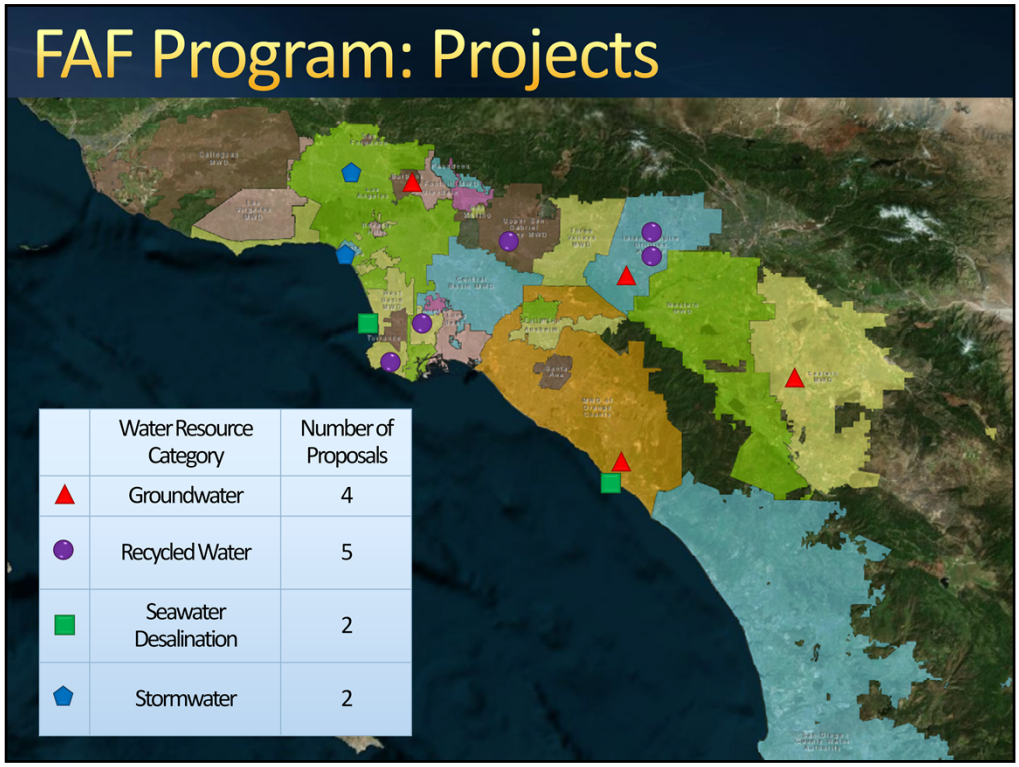


1980 – Lake Matthews and Skinner
1990 – Desert and Coachella
1995 – North Las Posas and Semitropic, Castaic and Perris under Monterey Agreement
1998 - Arvin Edison
2000 – DVL
2003 – Kern-Delta and Prop 13 conjunctive use programs
2006 – Mojave Demo and Additional Prop 13 conjunctive use programs
2007 – Lake Mead Demo
2008 – Established Lake Mead storage (1.5 MAF Capacity 400AF max draw)

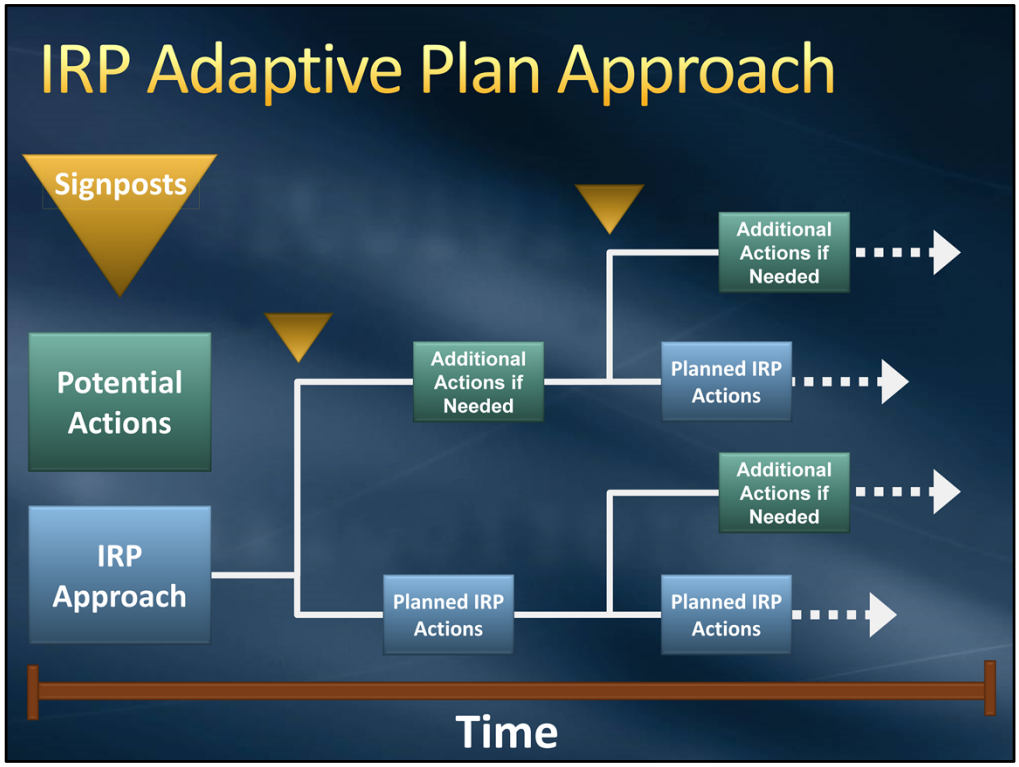
What are Foundational Actions?

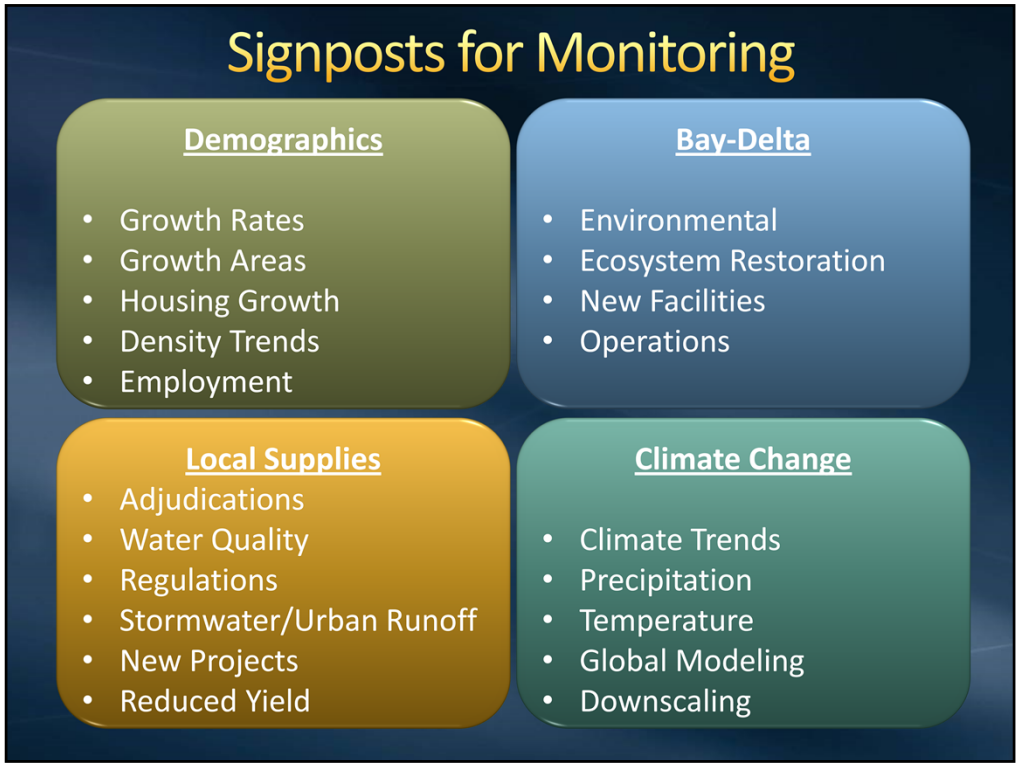
- Actions that provide an adaptive approach to managing longer-term uncertainties
  - Projects can be implemented more quickly when needed
  - Implementation is tied to triggers
- Low regret planning and mitigation actions
- Actions that present minimal cost-risk

FAF Program: Projects



- 13 member agencies participating (as the lead or partner) for a total funding match of about $3 million


IRP Adaptive Plan Approach
Signposts
Potential Actions
IRP Approach
Additional Actions if Needed
Planned IRP Actions
Additional Actions if Needed
Planned IRP Actions
Additional Actions if Needed
Planned IRP Actions
Time


Signposts for Monitoring
Demographics
Growth Rates
Growth Areas
Housing Growth
Density Trends
Employment
Bay-Delta
Environmental
Ecosystem Restoration
New Facilities
Operations
Local Supplies
Adjudications
Water Quality
Regulations
Stormwater/Urban Runoff
New Projects
Reduced Yield
Climate Change
Climate Trends
Precipitation
Temperature
Global Modeling
Downscaling

2010 IRP Update Summary

- Improved IRP framework for adaptability
  - Supply Buffer + Foundational Actions
- Local Resources and Conservation to meet growth and manage short-term risk
- Outlined a strategy for identifying and monitoring uncertainty and vulnerability
- April IRP Committee
  - Review of 2010 IRP Targets and Current Conditions


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA