Water Planning and Stewardship Committee

Item #6a

Subject: Integrated Water Resources Plan Update

Purpose: To provide an overview of the upcoming Integrated Resources Plan update process.

Committee Name/Date

Water Planning and Stewardship Committee

Item #6a

Summary: This report provides an overview of the upcoming IRP update process. This overview includes background on previous IRP's, and descriptions of the proposed process, technical update topics, and timeline.

Integrated Water Resources Plan Update

Water Planning and Stewardship Committee
Item 6a
February 9, 2015

IRP Background

- What is the Integrated Water Resource Plan?
  - A comprehensive long-term strategy to identify potential resource development needs, adaptation measures, and implementation pathways
- IRP Objectives
  - Ensure reliability
  - Ensure affordability
  - Ensure water quality
  - Maintain diversity and flexibility
  - Acknowledge constraints

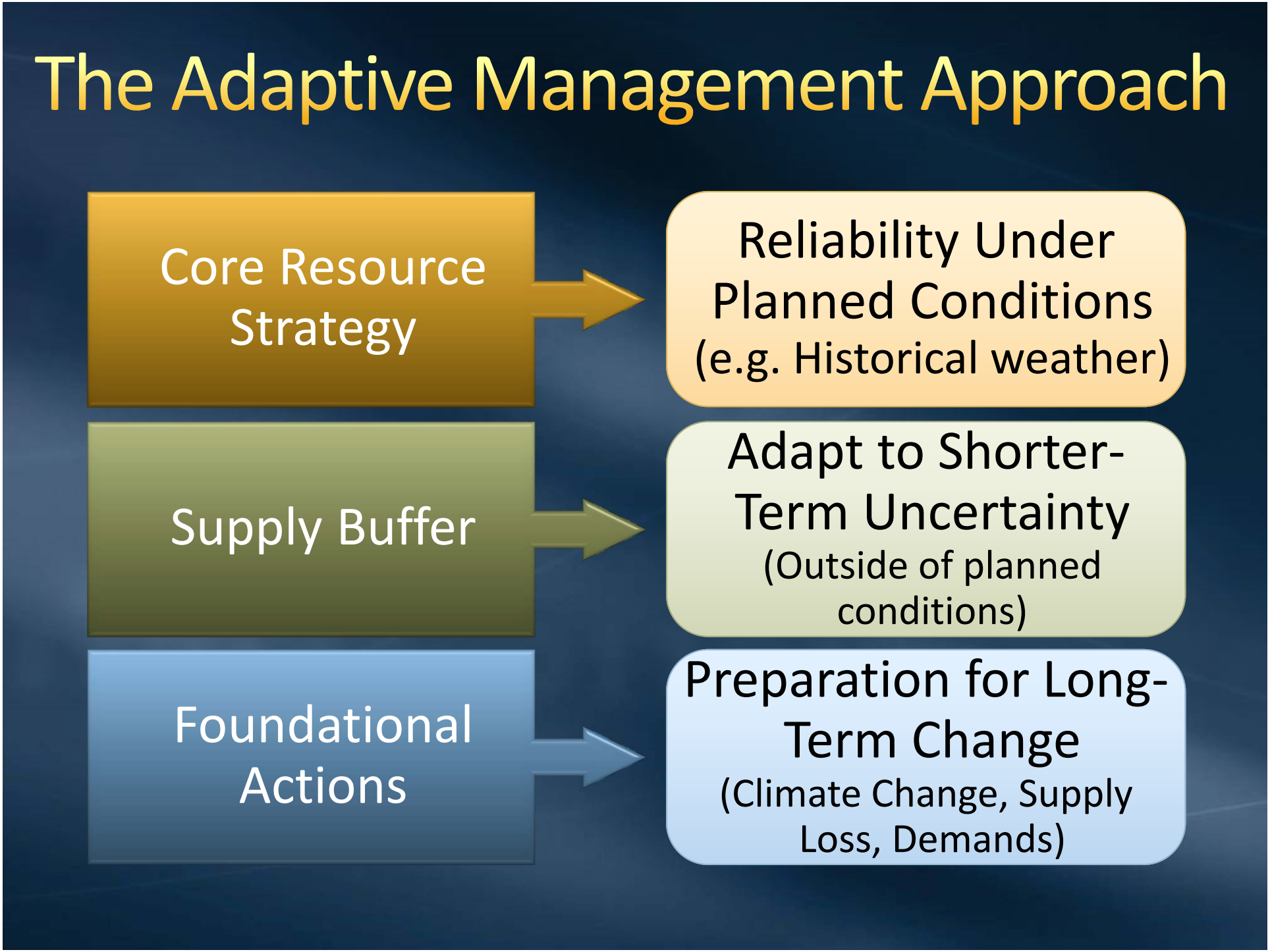
IRP History

- 1996 IRP
  - Established MWD's role as a regional water planner
  - Introduced a diversified portfolio approach
  - Established targets for major resource categories
- 2004 IRP Update
  - Placed further emphasis on conservation and local resources development
  - Introduced the concept of a "planning buffer"

IRP History

- 2010 IRP Update
  - Introduced an adaptive management approach
  - Seeks to stabilize imported supplies and meet growth through water use efficiency and local resources

The Adaptive Management Approach



2010 IRP Update Targets

Water Use Efficiency	• **Achieve a 20% reduction in GPCD as a region by 2020**
Local Resources	• **Develop ~100 TAF through incentives and partnerships**
SWP	• **Seek short, mid, and long-term Delta improvements**
CRA	• **Develop Dry-Year supply programs to fill the aqueduct when needed**

Key Drivers for Updating the IRP

- Incorporate changed conditions impacting supplies and demands
- Respond to new challenges
- Refine long-term storage management strategy
- Overcome barriers to implementation

Proposed IRP Update Process

- The IRP Update would be split into a two-part process
- Technical update
  - Metropolitan staff and member agencies
- Resource policy issues discussion
  - Board process
- Both efforts will have extensive interaction with the Board through an IRP Subcommittee

IRP Technical Update Goals

- Review and update IRP resource targets
- Assess strategy for managing short and long term uncertainty
  - Supply Buffer
  - Foundational Actions
- Work with the IRP Subcommittee to effectively communicate technical findings and identify policy needs

IRP Technical Update Topics

- Retail Demands
- Water Use Efficiency
- Local Supplies
- Foundational Actions
- Imported Supplies
- Long-term Uncertainty

Retail Demand Highlights

- Underpinning of other IRP targets
- Update factors and relationships that drive water demand
- Incorporate new regional demographic forecasts

Water Use Efficiency Highlights

- Conservation and recycling
- Update modeled conservation savings
- Evaluate status of existing and under construction recycling projects
- Review of progress towards regional target
- Identify potential beyond 20x2020

Local Supply Highlights

- Groundwater, recovery, recycling, surface production, transfer & exchange supplies, LAA, and seawater desalination
- Evaluate status of existing and under construction projects
- Determine progress toward target for new local development

Foundational Actions Highlights

- Review Foundational Actions Funding Program
- Review advances in stormwater, seawater desalination, and recycling
- Discuss barriers and resource areas requiring further development

Imported Supply Highlights

- Review status of delta improvements and interim operations
- Review status of CRA dry-year programs
- Update forecasts to reflect most recent modeling from DWR and USBR

Long-term Uncertainty Highlights

- Receive an update on current status of climate science
- Receive expert review of adaptive management approach developed in support of 2010 IRP
- Discuss new challenges and uncertainties

IRP Technical Update Proposed Schedule

THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928