

	Draft IRP Report was released July 2, 2010
Section 1	History, Background and Status
Section 2	Developing a Collaborative Regional Process
Section 3	Integrating a Policy Approach for Metropolitan's Roles
Section 4	Core Resources Strategy
Section 5	Making an Adaptive Management Approach Work
Section 6	Findings and Conclusions

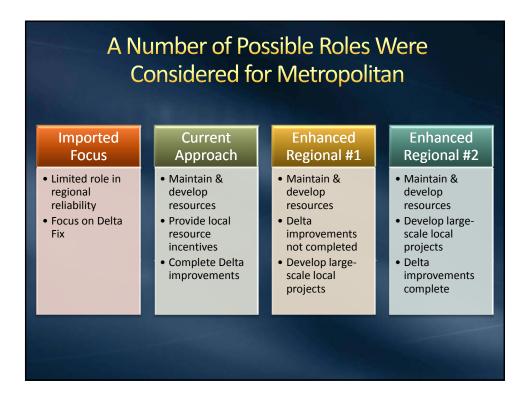
Water Supply Reliability Policies

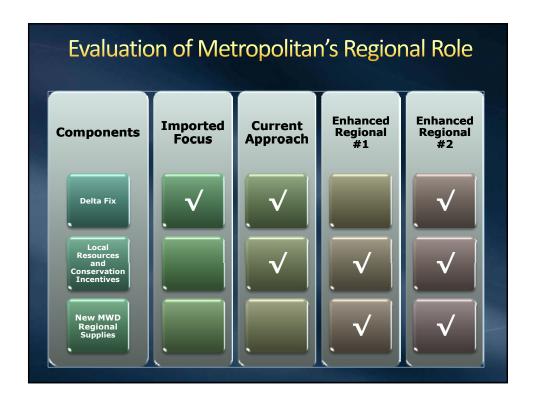
- Laguna Declaration
 - that stated Metropolitan will "provide its service area with adequate supplies of water to meet expanding and increasing needs."
- Metropolitan Mission Statement
 - that it will "provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs."
- IRP reliability goal
 - that "Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions."

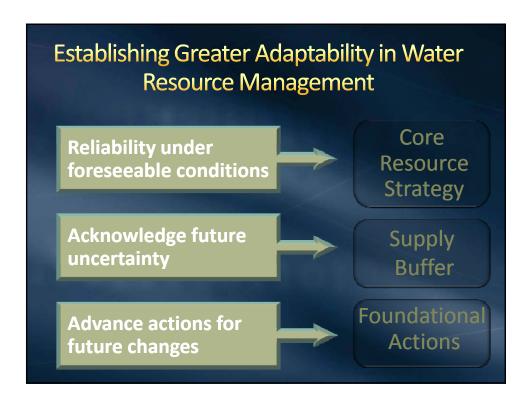
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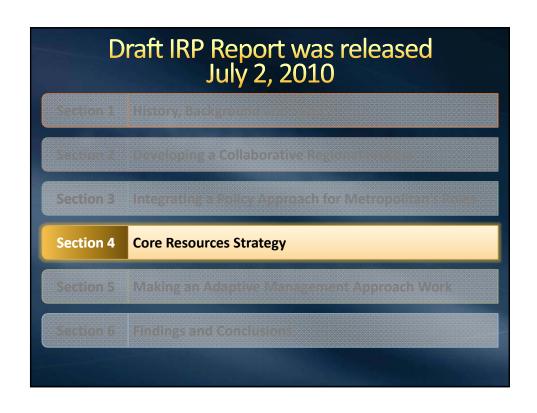




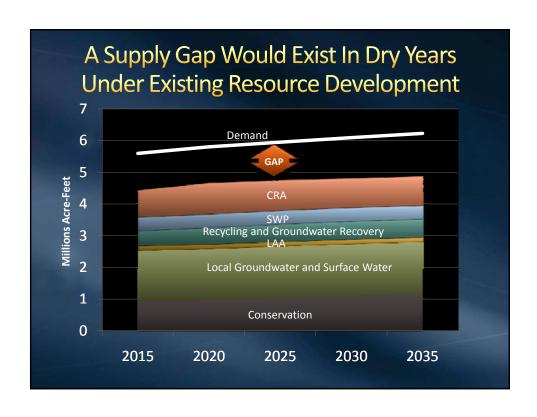


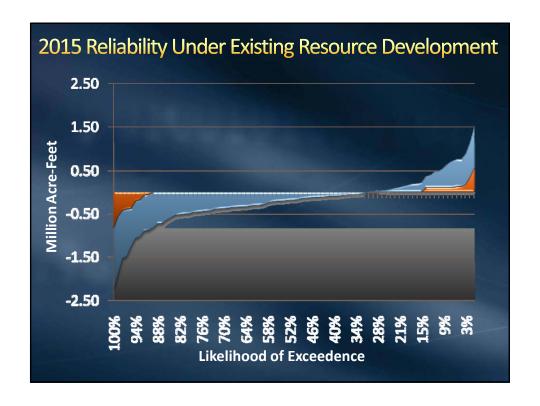


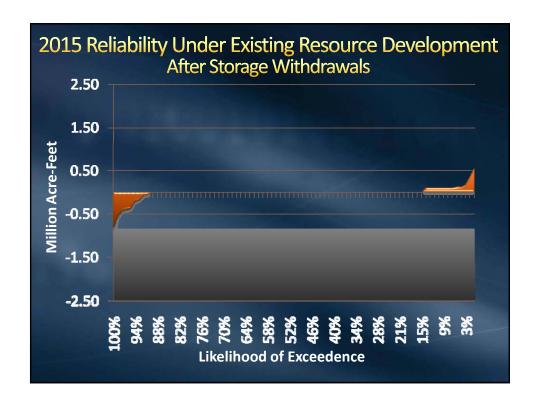


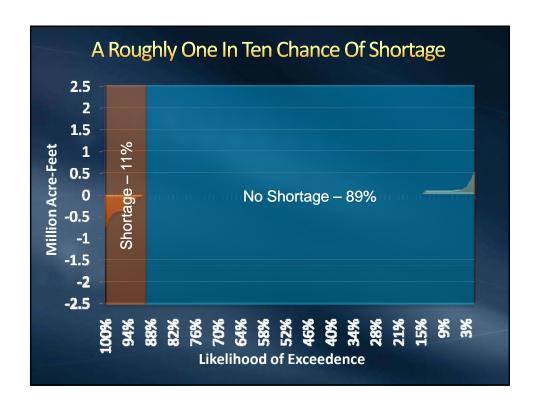


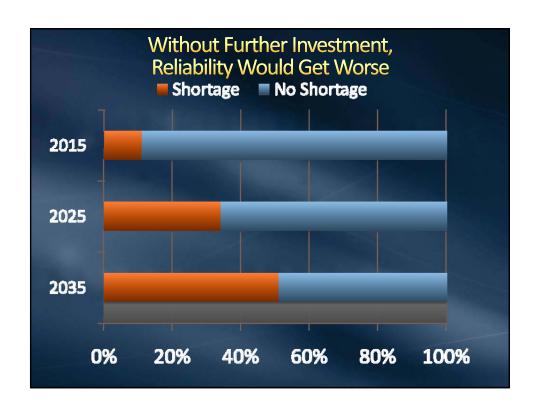








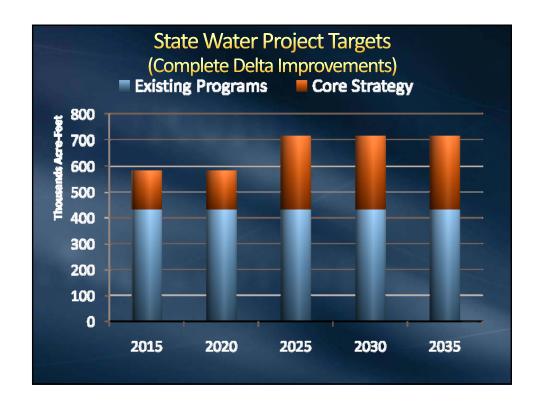


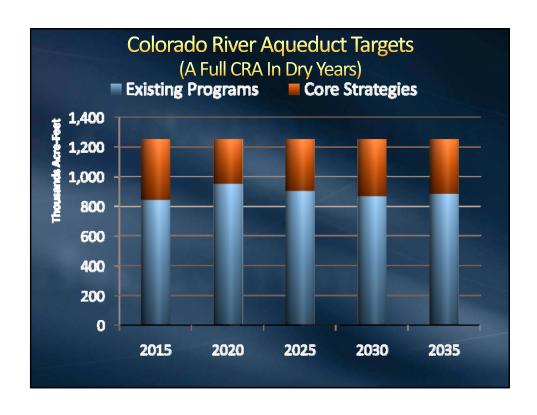


Existing Resources Under Future Uncertainties

- Under the existing level of resource development without future efforts:
 - Metropolitan would not meet its reliability goals under various future scenarios
 - Local and regional storage would not be replenished
- Challenges and Changed Conditions
 - Climate
 - Statewide Initiatives
 - Endangered Species Act Restrictions
 - Economy









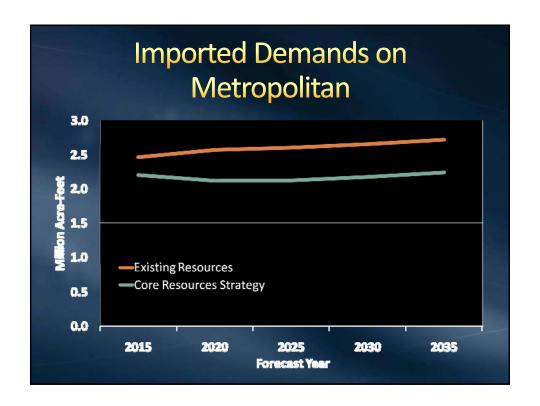


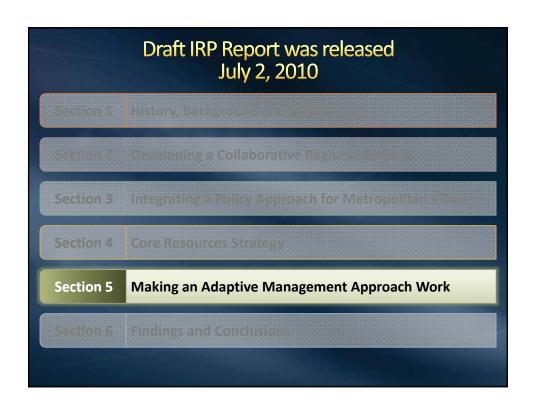






	Resource Strategy Targets otal Production (Acre-Feet)					
	2010 Actual	2015	2020	2025	2030	2035
20% by 2020 Water Use Efficiency	1,198,000	1,473,000	1,732,000	1,825,000	1,899,000	1,968,000
Local Resources Augmentation	112,000	194,000	208,000	246,000	250,000	252,000
SWP Dry-Year Supply	956,000	581,000	581,000	713,000	713,000	713,000
CRA Dry-Year Supply	1,100,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000
Total	3,366,000	3,498,000	3,771,000	4,034,000	4,112,000	4,183,000







Uncertainty Comes In Many Forms

- Climate Change
- Policy & Permitting: Statewide Initiatives
 - Comprehensive Water Management Plan
 - Delta Improvements
 - "20 by 2020"
- Operations & Water Quality
 - Endangered Species Act Restrictions
- Demand & Economy

Implementing A Supply Buffer Can Manage Uncertainty

- 2004 Update
 - Planning Buffer: focus on identifying supplies, but not implementation
- 2010 IRP Update
 - Implement an Operational Buffer
 - Components of Adaptive Management Approach
 - 10% of total retail demand
 - Regional collaboration on 20X2020 conservation legislation
 - Adaptive actions on local supply development

Considerations

- Cap on total buffer
- Maximum amount of financial investment
- Open proposal process
- Periodical time-frame to accept and review proposals

Criteria

- Technical feasibility
 - Reliability
 - Water quality and salinity goals
 - Ability to move water
- Financial feasibility
 - Project cost and rate impact
 - Bond indebtedness

How Could A 500 TAF Buffer Be Implemented?

- Water Use Efficiency: Up to 200 TAF additional (Inc. Conservation and Recycling)
 - Create a goal to reduce regional per capita water use by 20% from a baseline
 - Saves an additional 200 TAF above retail compliance with 20% by 2020 requirements
- Local Resources: Up to 300 TAF additional (Inc. GW Recovery, Recycling, Desalination, etc.)
 - Investigate regional partnerships for local resource development
 - Review incentive programs and rate impacts
 - Bring new projects forward for Board consideration as required and as feasibility is assessed



Advancing Actions for Future Change

- Stormwater capture
- Graywater systems
 - Metropolitan can work with regional stakeholders to improve the feasibility of these potential alternatives
- Low-regret foundational actions
 - Improve regulatory environment
 - Potential pilot studies
- Help to prepare these alternatives for implementation, if needed in the future



The Plan Extends Reliability Goals and Planning

The Core Resources Strategy ensures:

That "Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions."

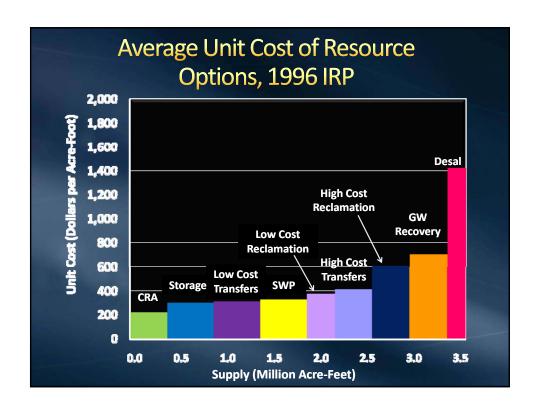
Implementation of a Buffer ensures:

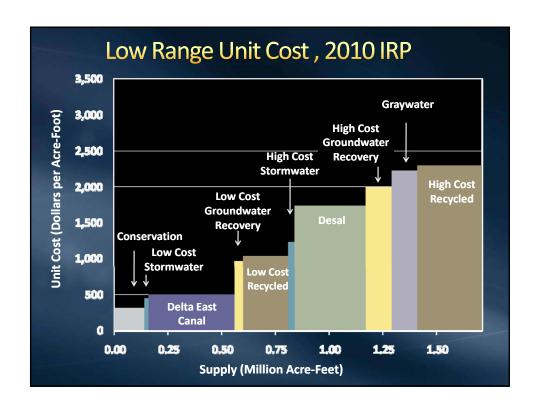
that additional resources will be developed to effectively manage new challenges and change

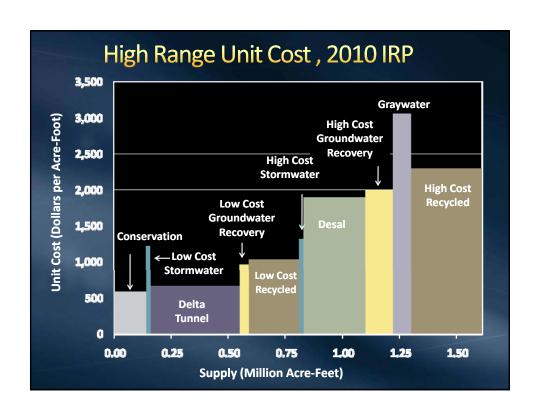
Foundational Actions ensure:

that Metropolitan and its member agencies can advance low regret actions to develop new supply options as needed to address future changes









Relative costs can be useful Challenges exists in comparisons Source Distribution Treatment Vield Other benefits or losses Cost impacts can be clearer in alternative analysis



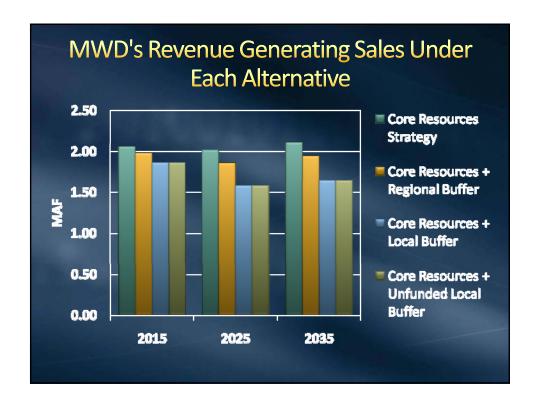
Summary of Rate Assumptions 2010 Dollars

	Water Use Efficiency 200 TAF	Additional Local Resources 300 TAF
Core Resources Strategy	NA	NA
Core Resources + Regional Buffer	\$195/AF	\$1,500/AF Sales Revenues
Core Resources + Local Buffer	\$195/AF	\$250/AF* No Sales Revenues
Core Resources + Unfunded Local Buffer	\$195/AF	No incentive or Sales Revenues

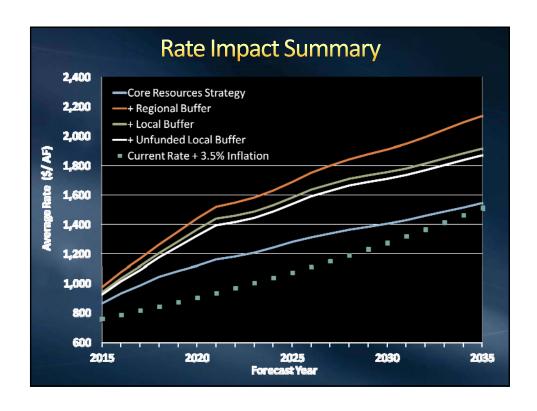
^{*}this rate is fixed, all other costs are escalated at 3.5%

Cost Impacts Reflect An Average MWD Rate

- Average water rate across all MWD water sales & wheeling
 - Includes average of all rates & charges
- Rate is net of revenue offsets like property taxes, power generation & interest income.
- Rates would recover full cost of service
- Current FY2010 average rate is about \$640/AF (Does not recover full cost of service)



Average MWD Rate \$/Acre-Foot			
	2015	2025	2035
Core Resources Strategy	\$865	\$1,281	\$1,545
Core Resources + Regional Buffer	\$976	\$1,689	\$2,135
Core Resources + Local Buffer	\$940	\$1,583	\$1,917
Core Resources + Unfunded Local Buffer	\$925	\$1,538	\$1,871



	2012 2015			
	2010-2015	2015-2025	2025-2035	
Core Resources Strategy	7%	4%	2%	
Core Resources + Regional Buffer	10%	6%	2%	
Core Resources + Local Buffer	9%	5%	2%	
Core Resources + Unfunded Local Buffer	9%	5%	2%	



MAMM Comments July 16, 2010

- Cost information needs to be discussed
- Buffer
 - Better definition of what uncertainties will be covered by the buffer
 - Clarification on the implementation of the buffer, will it be local or regional responsibility
 - Opt-In, Opt-Out
 - Considering the Core Resources Strategy does the buffer make the region over plan



Policy Questions for the Board IRP Reliability Goal Buffer Buffer Implementation Adaptive Management Approach Opt-In, Opt-Out

IRP Reliability Goal

- What is the appropriate level of reliability for Metropolitan?
- Should the IRP Reliability Goal be amended?
- Should the IRP Reliability Goal address nonhydrologic conditions?

Buffer

- Is an operational buffer appropriate for the IRP?
- Is the size of the buffer appropriate?

Buffer Implementation

- What should be the timeframe for Metropolitan to begin adaptive actions for the buffer?
- What should be the roles and responsibilities of Metropolitan and the Member Agencies in implementing the buffer?
- How should buffer implementation be shared between Metropolitan and the Member Agencies?
- What is the willingness to pay for new supplies to provide a buffer against future uncertainties?

Adaptive Management Approach

- Should Metropolitan initiative Foundations Actions as soon as possible?
- How far should Metropolitan go when implementing Foundational Actions for "readiness-to-proceed"
 - educational campaigns
 - partnerships
 - feasibility studies
 - pilot projects

Opt-In, Opt-Out

Should individual Member Agencies have the option to selectively invest or not invest in Metropolitan actions for regional reliability?

Next Steps

- Stakeholder Forums
 - August 3: Orange
 - August 5: Ontario
 - August 10: San Diego
 - August 12: Los Angeles