



# Draft Scenarios and Next Steps for Analysis and Outreach

Integrated Resources Plan Special Committee  
Item 6a.

September 22, 2020

# Overview

- Recap of Activities
- Draft Scenario Framework and Strawman Assumption
- Next Steps

# 2020 IRP Roadmap



# Recap of Activities

- 2015 IRP Retrospective Report
  - Finalizing responses to comments - file with Board in October
- Drivers of Change
  - Identified what is important to us and outside of our control - completed
- Qualitative/Quantitative Assessment
  - Identifying supply/demands links and impacts - ongoing
- Constructing Scenarios
  - Creating plausible future scenarios using a framework approach with Member Agencies - current

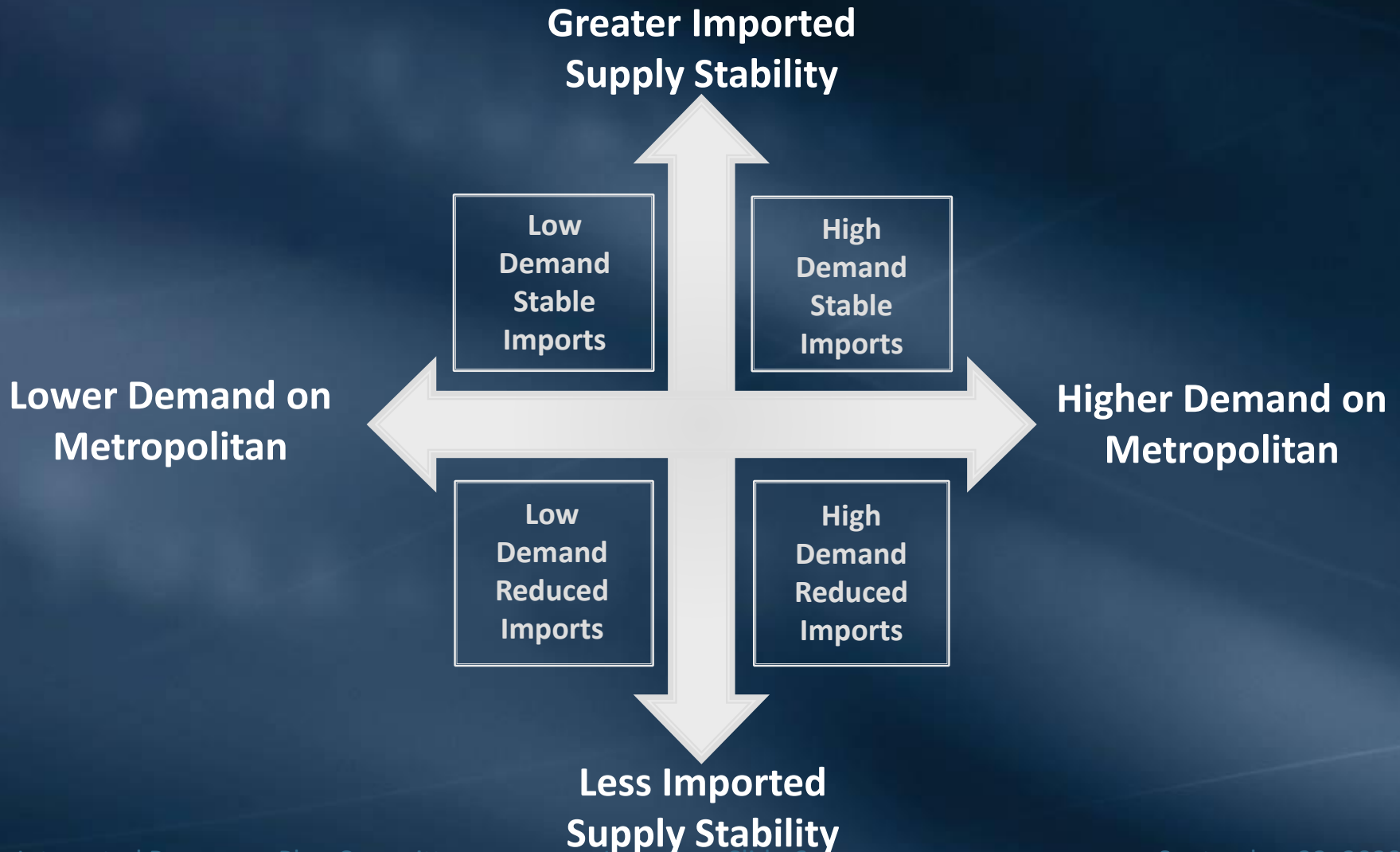
# Constructing Scenarios

## *Using Key Outcomes for MWD*



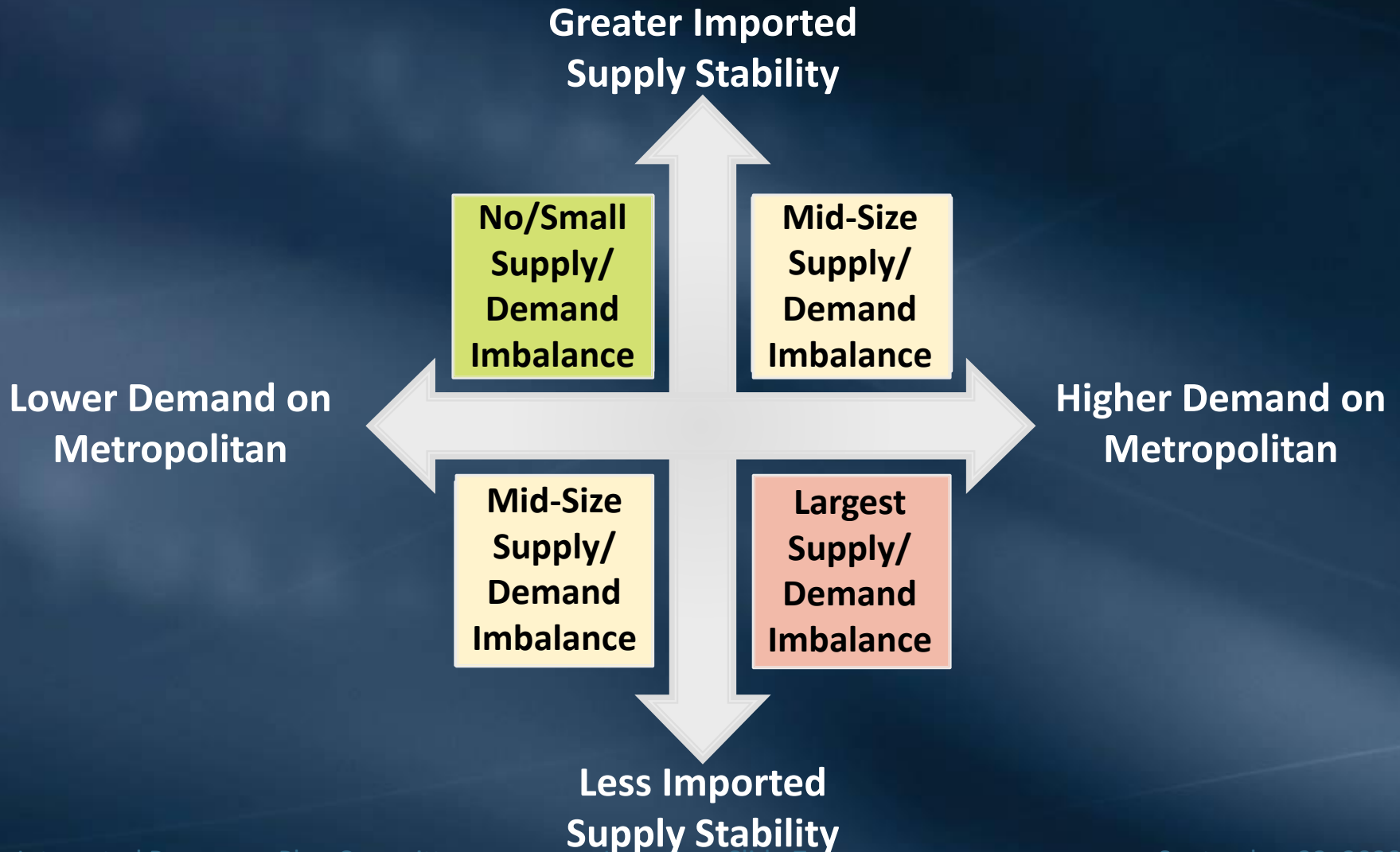
# Constructing Scenarios

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









# Constructing Scenarios

	<b>High Demand</b> <input type="checkbox"/> <input checked="" type="checkbox"/> <b>Stable Imports</b> <input type="checkbox"/> <input type="checkbox"/>	<b>Low Demand</b> <input type="checkbox"/> <input type="checkbox"/> <b>Reduced Imports</b> <input checked="" type="checkbox"/> <input type="checkbox"/>
Climate Change	Gradual impacts to imported and local supply	Significant impacts to imported supply
Economic Impacts	High growth, ag demand increases	Minimal growth, fewer jobs, flat housing
Leg & Regs	Moderate local regulatory requirements	Expanding leg. and reg. on imported supply
Demographics	High pop growth, less crowding	Slow pop growth, more infill, strong WUE ethic
Fed & State	More cooperation and collaboration	Delta and Colorado River turmoil, every state for itself
Tech Advances	Continue investment in local and regional infrastructure	Local investments redirected to repairs and rate relief
Aging Infrastructure	Keeping up repair and maintenance	More frequent unplanned outages from lack of funding



# Constructing Scenarios

	<b>Low Demand</b>   <b>Stable Imports</b>  	<b>High Demand</b>   <b>Reduced Imports</b>  
Climate Change	Gradual impacts to imported and local supply	Significant impacts to imported and local supply
Economic Impacts	Minimal growth, fewer jobs, flat housing	High growth, ag demand increases
Leg & Regs	Fewer groundwater mandates and Delta regs	Meeting regs reduce available supplies
Demographics	Slow pop growth, less suburban sprawl	High pop growth, conservation fatigue
Fed & State	Limited regional, state, and federal help	High desire to invest, but unsuccessful collaboration
Tech Advances	Off-grid technologies help wealthier communities	Less acceptance of DPR and SW not able to supplement water recycling
Aging Infrastructure	Deferred maintenance with manageable impacts	More frequent unplanned outages from system stress

# Strawman Assumptions

## Straw man proposal - Wikipedia

*A **straw-man proposal** is a brainstormed simple draft proposal intended to generate discussion of its disadvantages and to provoke the generation of new and better proposals.*

# Strawman Assumptions

	2020 IRP Low Demand Stable Imports	2020 IRP High Demand Stable Imports	2020 IRP Low Demand Reduced Imports	2020 IRP High Demand Reduced Imports
<b>Colorado River Supply</b>	<u>Hydrology</u> <ul style="list-style-type: none"> <li>CMIP 3 (13.7 MAF)</li> </ul> <u>Operations</u> <ul style="list-style-type: none"> <li>DCP in place through planning horizon</li> </ul>	<u>Hydrology</u> <ul style="list-style-type: none"> <li>CMIP 3 (13.7 MAF)</li> </ul> <u>Operations</u> <ul style="list-style-type: none"> <li>DCP in place through planning horizon</li> </ul>	<u>Hydrology</u> <ul style="list-style-type: none"> <li>Stress Test (13.1 MAF)</li> </ul> <u>Operations</u> <ul style="list-style-type: none"> <li>DCP in place through planning horizon</li> </ul>	<u>Hydrology</u> <ul style="list-style-type: none"> <li>Stress Test (13.1 MAF)</li> </ul> <u>Operations</u> <ul style="list-style-type: none"> <li>DCP in place through planning horizon</li> </ul>
<b>State Water Project Supply</b>	Use hydrology and operations assumption from the 2019 Delivery Capability Report	Use hydrology and operations assumption from the 2019 Delivery Capability Report	Start with 2019 Delivery Capability Report with following changes: <ul style="list-style-type: none"> <li>Additional climate change impacts</li> <li>More restrictive South Delta</li> <li>Increase outflow requirements</li> </ul>	Start with 2019 Delivery Capability Report with following changes: <ul style="list-style-type: none"> <li>Additional climate change impacts</li> <li>More restrictive South Delta</li> <li>Increase outflow requirements</li> </ul>

# Strawman Assumptions

	2020 IRP Low Demand Stable Imports	2020 IRP High Demand Stable Imports	2020 IRP Low Demand Reduced Imports	2020 IRP High Demand Reduced Imports
<b>Retail Demands</b>	RTP 20 and Series 14 – Reduced  (less growth/improved WUE)	RTP 20 and Series 14 -Increased  (more households/jobs- slight GPCD rebound)	RTP 20 and Series 14 -Reduced  (growth/strong WUE/bad economy)	RTP 20 and Series 14 - Increased  (more households/jobs - GPCD rebound)
<b>Local Supply</b>	<ul style="list-style-type: none"> <li>Existing Project continue to yield</li> <li>Planned projects begin to perform</li> </ul>	<ul style="list-style-type: none"> <li>Existing Project start to decrease in yield</li> <li>Planned projects do not perform as well</li> </ul>	<ul style="list-style-type: none"> <li>Existing Project continue to yield</li> <li>Planned projects begin to perform</li> </ul>	<ul style="list-style-type: none"> <li>Existing Project start to decrease in yield</li> <li>Planned projects do not perform as well</li> </ul>

# Planned Near-Term Outreach

- Southern California Water Dialogue
  - October 28
- Southern California Water Coalition
  - November 5
- Public Workshop (2 dates)
  - Early November
- Member Agency Forums
  - Seeking opportunities

# What's Next

- Qualitative-Quantitative Assessment
  - Confirm scenario framework working draft
  - Continue quantifying supply/demand links
- October IRP Committee meeting
  - Report on scenario framework discussed today
  - Provide preliminary assessment of key supply and demand impacts

