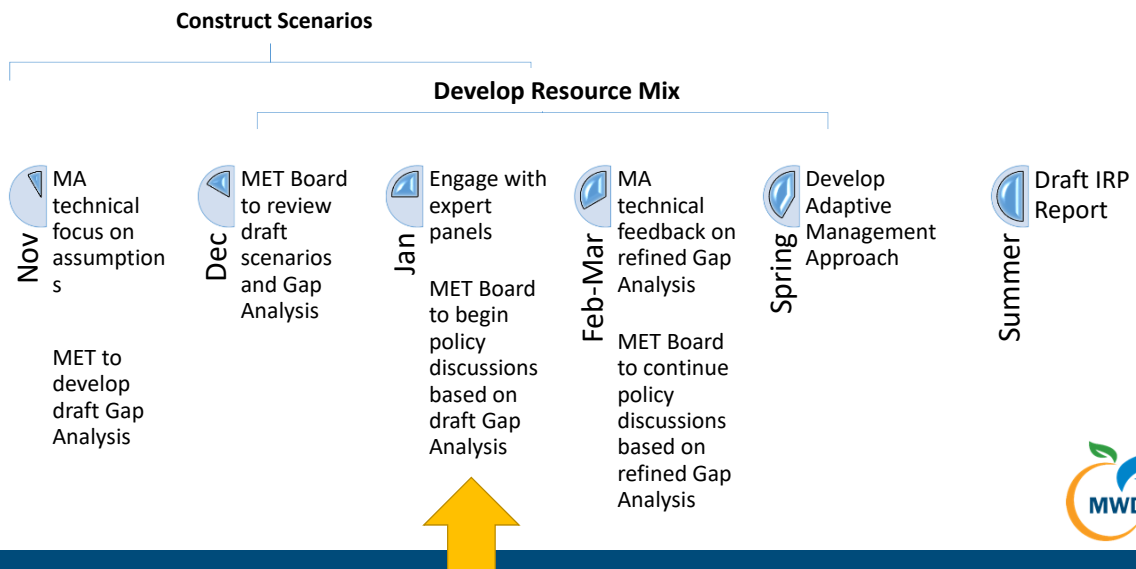


## Metropolitan's Integrated Resources Plan Discussion Series #11



February 3, 2021

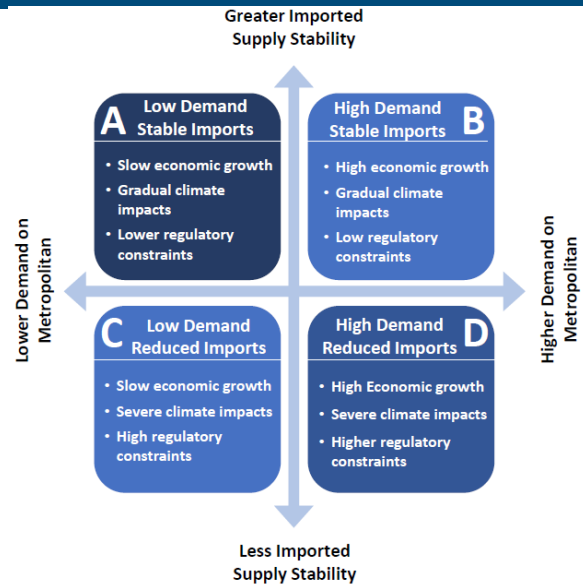
### Where we are in the process



# The Scenarios

How this could translate to the Gap Analysis:

- Scenario A = Smallest Gap
- Scenarios B & C = Mid-sized Gap
- Scenario D = Largest Gap



# Exploring assumptions in more detail

## State Water Project

A	B	C	D
2019 Delivery Capability Report Assumptions • No Conveyance Project	2019 Delivery Capability Report Assumptions • No Conveyance Project	2019 Delivery Capability Report Assumptions • No Conveyance Project	2019 Delivery Capability Report Assumptions • No Conveyance Project
		<ul style="list-style-type: none"> <li>• Additional climate change impacts</li> <li>• More restrictive South Delta</li> <li>• Increase in outflow requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Additional climate change impacts</li> <li>• More restrictive South Delta</li> <li>• Increase in outflow requirements</li> </ul>

## Exploring assumptions in more detail

### Retail Demand

A	B	C	D
<ul style="list-style-type: none"> <li>• Very low consumptive demands reaching 2.91 MAF by 2045. (~8% ↓ in SCAG &amp; SANDAG population forecasts)</li> <li>• Assumes water-saving behavior from 2019 will continue, resulting in no rebound effect modelled for water use</li> <li>• Ag demands reflect recent averages and 2015 UWMP</li> </ul>	<ul style="list-style-type: none"> <li>• High M&amp;I consumptive retail demands reaching 4.24 MAF by 2045. (~9% ↑ in SCAG &amp; SANDAG population forecasts)</li> <li>• Assumes 40% rebound effect in water use between 2019 and 2030.</li> <li>• Ag demands reflect recent averages and 2015 UWMP</li> </ul>	<ul style="list-style-type: none"> <li>• Very low consumptive demands reaching 2.91 MAF by 2045. (~8% ↓ in SCAG &amp; SANDAG population forecasts)</li> <li>• Assumes water-saving behavior from 2019 will continue, resulting in no rebound effect modelled for water use</li> <li>• Ag demands reflect recent averages and 2015 UWMP</li> </ul>	<ul style="list-style-type: none"> <li>• High M&amp;I consumptive retail demands reaching 4.24 MAF by 2045. (~9% ↑ in SCAG &amp; SANDAG population forecasts)</li> <li>• Assumes 40% rebound effect in water use between 2019 and 2030.</li> <li>• Ag demands reflect recent averages and 2015 UWMP</li> </ul>

## Exploring assumptions in more detail

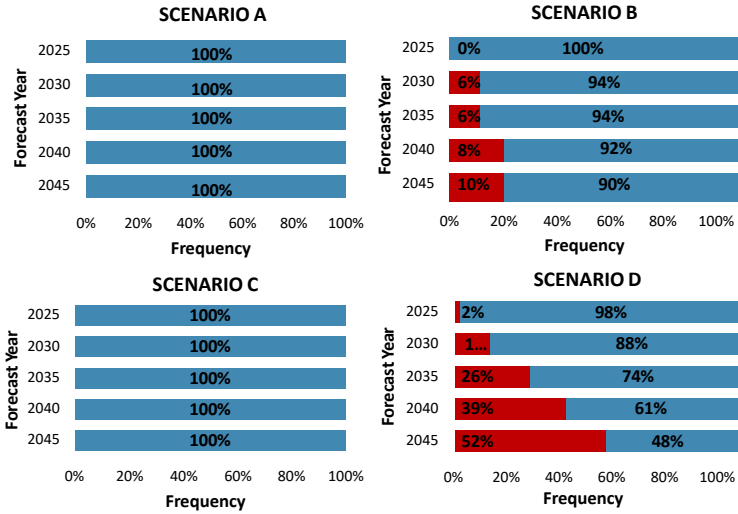
### Local Supply – Recycled Water

All begin with the 2020 Local Supply Survey updated inventory

A	B	C	D
<ul style="list-style-type: none"> <li>• Only includes projects <u>currently producing water and future projects already under construction</u> or that have signed a Local Resources Program agreement.</li> <li>• Does not include future projects still in planning phases.</li> </ul>	<ul style="list-style-type: none"> <li>• Includes <u>full inventory of local projects, 20% reduced ultimate yield of future projects* reflecting successful development of local projects</u></li> </ul> <p>(*Future projects defined as under construction, CEQA, and Concept. only).</p>	<ul style="list-style-type: none"> <li>• Only includes projects <u>currently producing water and future projects already under construction</u> or that have signed a Local Resources Program agreement.</li> <li>• Does not include future projects still in planning phases.</li> </ul>	<ul style="list-style-type: none"> <li>• Includes <u>full inventory of local projects, reduced ultimate yield by 20% and reduced projection by an additional 20% reflecting severe climate and regulatory setbacks</u> to local project development and operation.</li> </ul>

# Preliminary Gap Analysis

“Reliability” needs vary with future outcomes



NOTE: Results from preliminary analysis. Subject to change.

## IRP Scenarios Put Reliability to Test

- Scenarios examine more than hydrologic variability
- Scenarios broaden our view of “foreseeable” conditions
- Scenarios reveal different challenges to reliability
- Policy tradeoffs to meet a reliability goal are informed by scenarios

### Metropolitan’s Mission Statement:

“...to provide its service area with adequate and **reliable** supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.”



## Why is Reliability being talked about now?

- 💧 Should the current reliability goal be the same as it was in the past?
- 💧 An established or affirmed reliability goal is need for MET staff to move forward with evaluating the portfolio options/actions
  - 🔥 Should they continue the scenario and portfolio analysis with a 100% reliability goal?
- 💧 MET staff is seeking feedback on the meaning of various levels of reliability

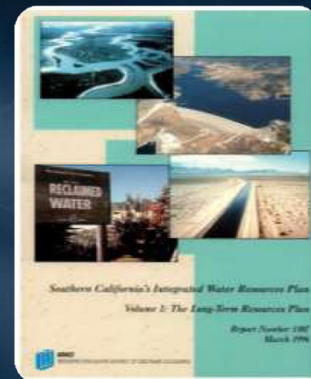


## Past and Current IRP Reliability Goal

Full capability to meet all retail-level water demands under all foreseeable hydrologic events

1996 IRP established ...

- Metropolitan would provide all of the firm wholesale water demands to its member agencies in 98 out of 100 years, and only in the remaining years consider implementing a shortage allocation plan for imported supply deliveries
- When this level of wholesale reliability is combined with the coordinated approach proposed in this resources plan, the region will have the full capability to meet all retail-level water demands at all times



## What's Next

- 💧 Reliability Goal was discussed with the MET Board and Member Agencies
  - 🔥 Continue scenario and portfolio analysis with 100% reliability goal
- 💧 Continue to receive Board feedback on this and other policy issues
- 💧 Incorporate input into analysis of portfolios that can achieve reliability goal (under each scenario)



## Discussion

- 💧 Should the current reliability goal be the same as it was in the past?
- 💧 An established or affirmed reliability goal is need for MET staff to move forward with evaluating the portfolio options/actions
  - 🔥 Should they continue the scenario and portfolio analysis with a 100% reliability goal?
- 💧 MET staff is seeking feedback on the meaning of various levels of reliability

**Metropolitan's Mission Statement:** "...to provide its service area with adequate and **reliable** supplies of high- quality water to meet present and future needs in an environmentally and economically responsible way."

