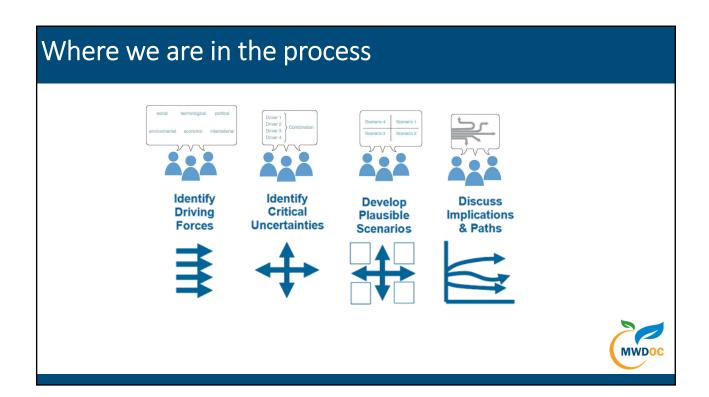
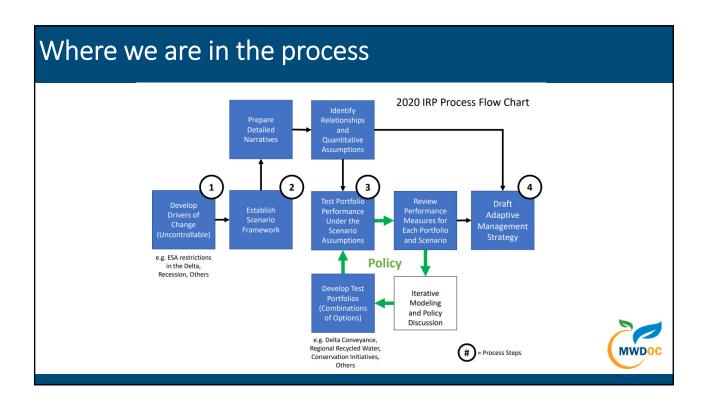


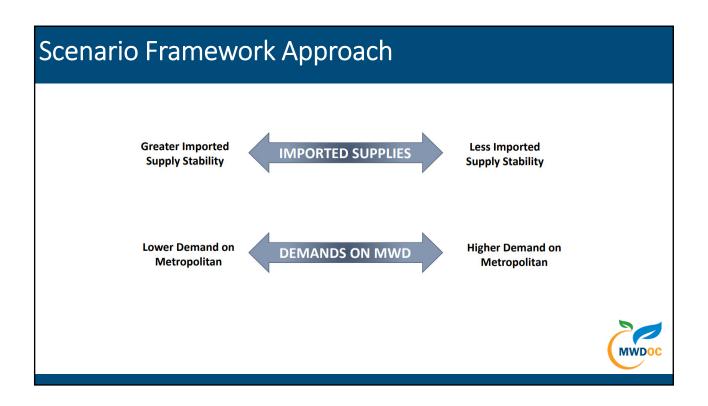
Metropolitan's Integrated Resources Plan Discussion Series #9

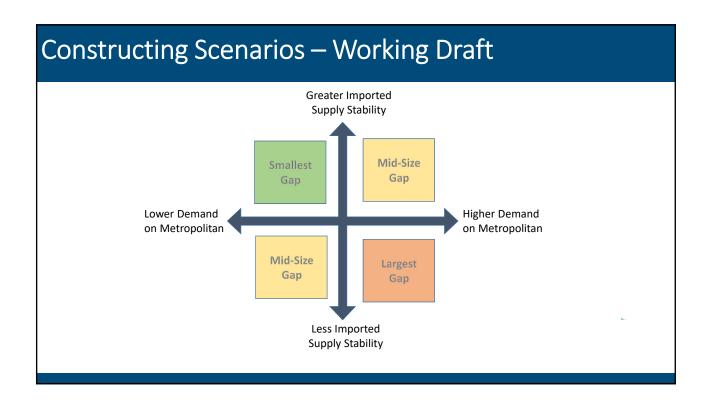


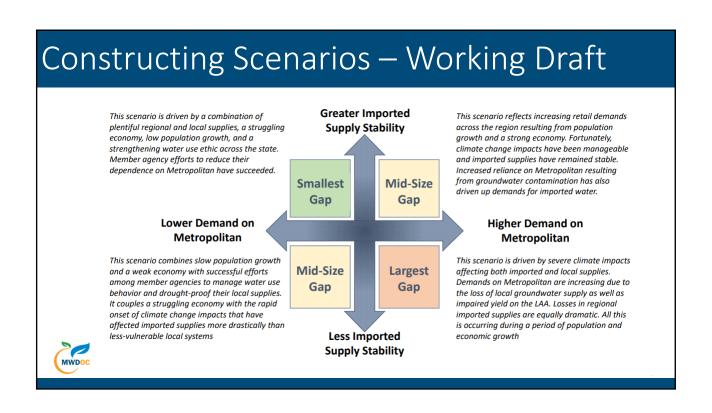
October 7, 2020











Constructing Scenarios – Bookend Extremes

	Low Demand Stable Imports	High Demand		
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		



	High Demand Stable Imports	Low Demand Reduced Imports
Climate Change	Gradual impacts to imported and local supply	Significant impacts to imported supply
Economic Impacts	High growth, ag demand increases	High growth, ag demand increases
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

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
(Working Draft)	Retail Demands	RTP 20 and Series 14 – Reduced	RTP 20 and Series 14 -Increased	RTP 20 and Series 14 -Reduced	RTP 20 and Series 14 - Increased
Impact on Supply-Demand Gap for		(less growth/improved WUE)	(more households/jobs- slight GPCD rebound)	(growth/strong WUE/bad economy)	(more households/jobs - GPCD rebound)
considered for each driver category Categorical Drivers Climate Change	Local Supply	 Existing Project continue to yield Planned projects begin to perform 	 Existing Project start to decrease in yield Planned projects 	 Existing Project continue to yield Planned projects begin to perform 	 Existing Project star to decrease in yield Planned projects do not perform as wel
Economic ImpactLegislation & Regulation	Colorado River Supply	Hydrology • CMIP 3 (13.7 MAF)	do not perform as well Hydrology CMIP 3 (13.7 MAF)	Hydrology • Stress Test	Hydrology • Stress Test (13.1 MAF)
DemographicsFederal & State		Operation DCP in place through planning horizon	Operations DCP in place through planning horizon	(13.1 MAF) Operations DCP in place through planning horizon	Operations DCP in place through plannin horizon
Tech. AdvancesAging Infrastructure	State Water Project Supply	Use hydrology and operations assumption from the 2019 Delivery	Use hydrology and operations assumption from the 2019 Delivery	Start with 2019 Delivery Capability Report with following changes:	Start with 2019 Delivery Capability
MWDoc	Supply	Capability Report	Capability Report	Additional climate change impacts More restrictive South Delta Increase outflow requirements	

What's Next

- Qualitative and quantitative assessment of drivers ongoing
- Provide preliminary assessment of key supply and demand impacts
- October Refine Scenarios
 - Demand drivers
 - Climate change impacts

Scenario planning allows the Board to consider a wide range of challenges to future reliability.

