



WATER  **TOMORROW**
2020 Integrated Resources Plan

IRP Update Scenario Assumption Refinements

Member Agency Technical Workgroup Meeting #8

February 22, 2021

Overview

- Review game plan through April
 - Refining scenario assumptions and gap analysis
 - Begin identifying actions based on refined gap analysis
- Refining scenario assumptions for local projects

Game Plan for Refining Scenarios

Expected Completion in April

- Refine Scenario Assumptions
 - Collaborative process with Demand and Climate Experts and Member Agency technical staff and managers
 - Assumption refinements will be grouped into three areas
 - Demands
 - Imported Supply (SWP and CRA)
 - Local Supply (Groundwater, Local Projects, Surface Water, and LAA)
- Refine Gap Analysis
 - Staff will update its analysis once assumptions are refined
 - Inform Board policy discussions

Demand Refinements

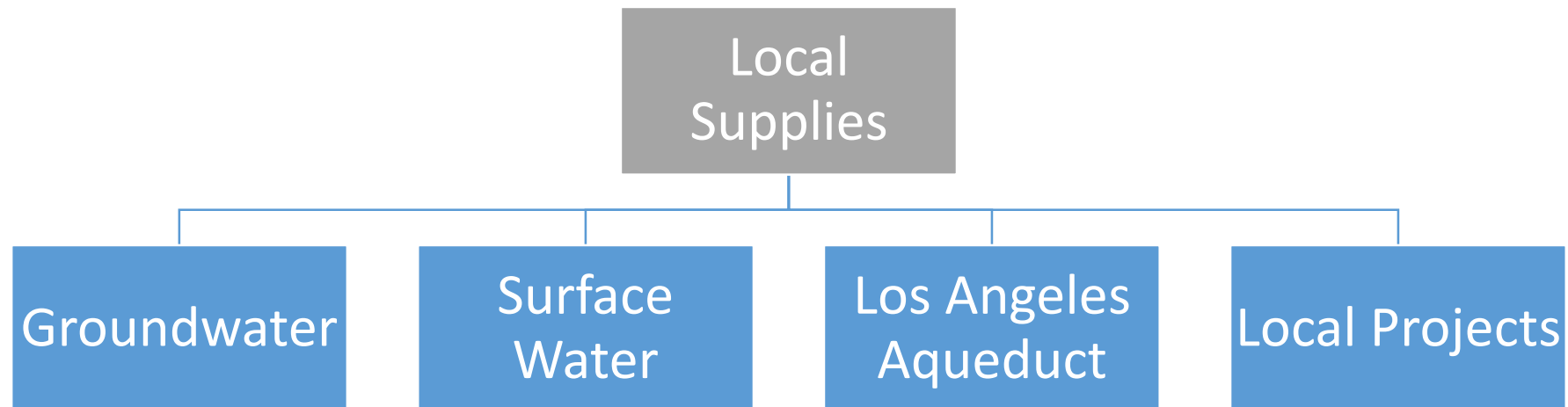
- Member Agency Feedback
 - Received feedback through various forums
 - Qualitative/Quantitative Assessment
 - Workshop and other meetings
- Engage with Demand Experts
 - Share feedback and pose questions to experts
 - Receive preliminary assessment of scenarios and input on important issues raised
- Workshop with Member Agencies and Experts
 - Opportunity to review expert input and ask questions in March

Imported Water Supply Refinements

- Member Agency Feedback
 - Received feedback through various forums
 - Qualitative/Quantitative Assessment
 - Workshop and other meetings
- Engage with Climate Experts
 - Share feedback and pose questions to experts
 - Receive preliminary assessment of scenarios and input on important issues raised
- Workshop with Member Agencies and Experts
 - Opportunity to review expert input and ask questions in April

Local Supply Refinements

- Engage member agencies about local supplies through 4 separate yet concurrent tracks



Local Supply Engagement – Who will be involved and how?

Groundwater

- Future small group meetings with basin managers and associated member agencies

Surface Water

- Coordination with member agencies that have surface water

Los Angeles Aqueduct

- Coordination with LADWP

Local Projects

- Tech Workgroup meetings with member agencies

What do we want to accomplish through this local supply engagement process?

- Engage with appropriate agencies to discuss unique uncertainties
- Discuss underlying drivers in each scenario and how they specifically impact each local supply type
 - Existing base supply
 - Future supply development
- Obtain information needed to quantify the driver impacts

Questions on Engagement Plan



Today's Discussion on Refining Assumptions for Local Projects

- Local projects include groundwater recovery, recycled water, and seawater desalination projects
- Review of underlying drivers in each scenario
- Discuss impacts of underlying drivers to future project development and existing project performance
- Next Steps

Underlying Scenario Drivers

Scenario A

Low Demand Stable Imports

- Slow Economic Growth
- Gradual Climate Change
- Low Regulatory Constraints

Scenario B

High Demand Stable Imports

- High Economic Growth
- Gradual Climate Change
- Low Regulatory Constraints

Scenario C

Low Demand Reduced Imports

- Low Economic Growth
- Severe Climate Change
- High Regulatory Constraints

Scenario D

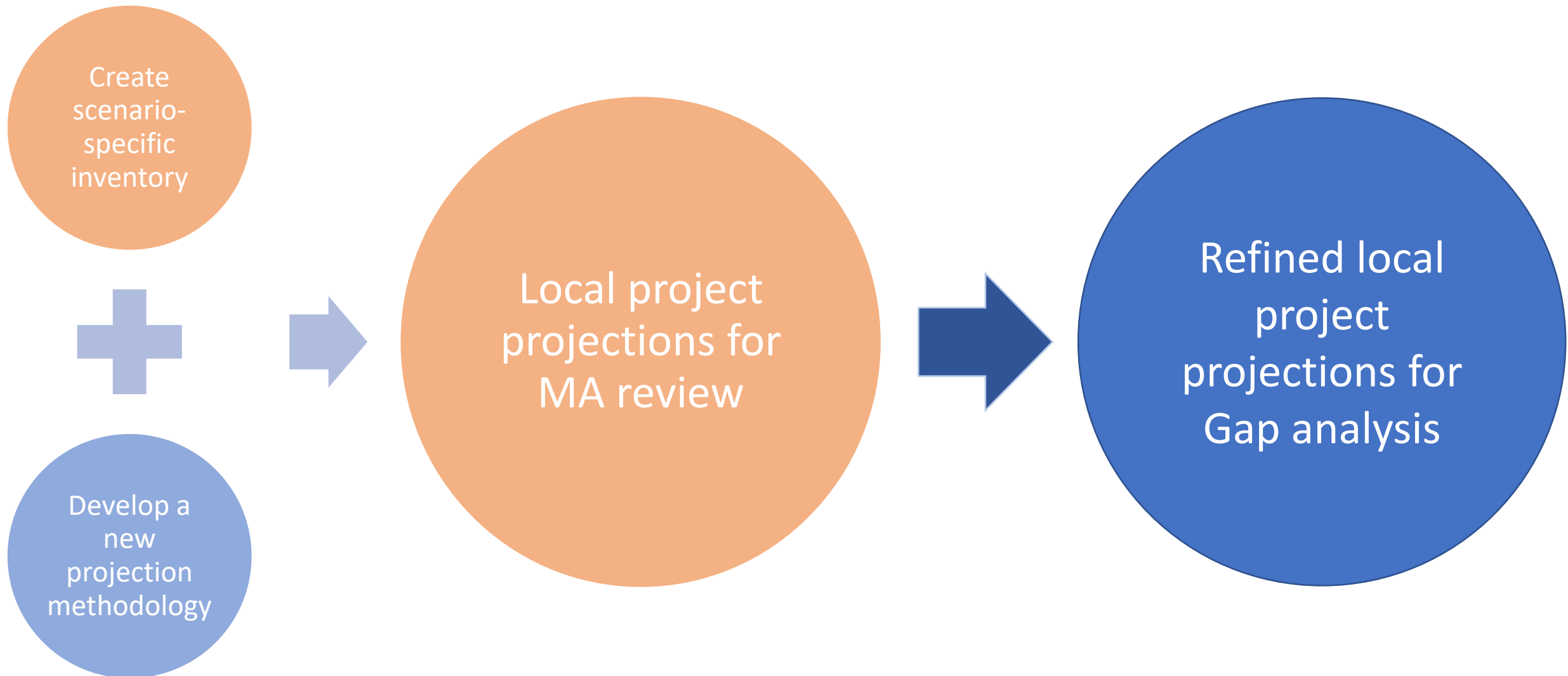
High Demand Reduced Imports

- High Economic Growth
- Severe Climate Change
- High Regulatory Constraints

What we need your help with?

- Use the underlying scenario drivers to determine to refine assumptions for local project projections
 - Give us scenario-specific inventory
 - We will develop new projection methodology

Local Project Refinement Process



Things to consider when determining your scenario specific inventory

- Project need may differ in each scenario based on:
 - Economy
 - Capital and O&M costs
 - Funding availability
 - Retail Demand
 - Need for additional supply
 - Regulatory Environment
 - Environmental and water quality regulations
 - Permitting process
 - Climate Change
 - Need for additional supply

Scenario A

- **Economy**
 - Limited state and federal funding available
 - Projects are less affordable
- **Retail Demands**
 - Low demands limit need for additional supply
- **Regulatory Environment**
 - No significant increase in regulatory requirements
 - Lengthy and variable permitting process is unresolved
- **Climate Change**
 - No significant impacts to imported supply stability
 - Limits need for additional supply

Scenario A

Low Demand Stable Imports

- Slow Economic Growth
- Gradual Climate Change
- Low Regulatory Constraints

Scenario B

- Economy
 - Boost in state and federal funding availability
 - Projects are more affordable
- Retail Demands
 - High demands increase need for additional supply
- Regulatory Environment
 - No significant increase in regulatory requirements
 - Streamlined permitting process
- Climate Change
 - No significant impacts to imported supply stability
 - Limits need for additional supply

Scenario B

High Demand Stable Imports

- High Economic Growth
- Gradual Climate Change
- Low Regulatory Constraints

Scenario C

- Economy
 - Limited state and federal funding available
 - Projects are less affordable
- Retail Demands
 - Low demands limit need for additional supply
- Regulatory Environment
 - Increase in regulatory requirements
 - More challenging permitting process
- Climate Change
 - Significant impacts to imported supply stability
 - Increasing need for additional supply

Scenario C

Low Demand Reduced Imports

- Low Economic Growth
- Severe Climate Change
- High Regulatory Constraints

Scenario D

- Economy
 - Boost in state and federal funding availability
 - Projects are more affordable
- Retail Demands
 - High demands increase need for additional supply
- Regulatory Environment
 - Increase in regulatory requirements
 - Streamlined permitting process
- Climate Change
 - Significant impacts to imported supply stability
 - Increasing need for additional supply

Scenario D

High Demand Reduced Imports

- High Economic Growth
- Severe Climate Change
- High Regulatory Constraints

Next Steps for Local Projects

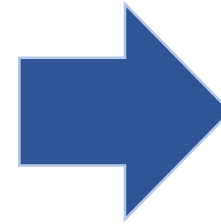
Create
scenario-
specific
inventory



Develop a
new
projection
methodology



Local project
projections for
MA review



Refined local
project
projections for
Gap analysis

Next Steps for Local Projects

- What to expect from us?
 - Inventory list
 - Instructions
 - Scenario prompts
- Staff available for assistance

Next Steps – Local Supply

Groundwater

- Schedule meetings per basin

Surface Water

- Schedule meetings with surface water agencies

Los Angeles Aqueduct

- Review current model

Local Projects

- Send out respective inventory lists

Discussion