

# Scenarios: What's happened since September meeting?

December 3, 2019



## Reminder of Scenario (working) Definition

- A combination of one or more biological strategies and sets of assumed future conditions that we can consider relative to the goals.
  - Added additional components
  - Fewer alternative biological pathways than initially anticipated
  - Start with biological or other components?

## Reminder of Scenario Purpose

- Purpose:
  - To explore various pathways to achieving the goals.
  - Capture a range of options and choices confronting the region on how to achieve the goals and
  - Allow for evaluation of tradeoffs among alternative approaches.
- All intended to make substantive progress toward the goals.
  - Ideally, all would achieve the high-range goals,
  - Some might achieve them sooner than others, or have a higher certainty of achieving them.

## Nine Potential Scenario Themes

- Developed by project team, based on previous input:
  1. Frontload max effort
  2. Continue existing effort
  3. Incremental, increased effort
  4. Frontload effort in blocked areas
  5. Frontload opportunities for early success
  6. Frontload efforts to secure strongholds
  7. Frontload efforts to secure most at-risk populations
  8. Innovation
  9. Experimental Management

# Proposed Scenario Components

- **Biological strategies** (estuary, trib habitat, blocked habitat; mainstem survival/latent mortality; hatchery; harvest; predation)
- **Future conditions/climate change**
- **Research**
- **SCEE considerations** (social, cultural, ecological, economic)
- **Governance**
- **Funding**
- **Public education/marketing**
- **Infrastructure**



# Also proposed incorporating concept of benchmarks into all scenarios



Proposed Table for Developing Details on Scenario Components

- Components may also be broken down by sub-areas of the basin, by stock, etc.; not all components need to include time frames and benchmarks

Components	Short Term - Up to 25 years	Benchmarks/ Adaptive Management	Medium Term - Up to 50 years	Benchmarks/ Adaptive Management	Long Term - Up to 100 years	Benchmarks/ Adaptive Management
Estuary habitat						
Tributary habitat						
Blocked habitat						
Mainstem survival*						
Latent mortality*						
Hatchery						
Harvest						
Predation						
Mainstem						
Hatcheries						
Future conditions/ climate change						
Research						
Social considerations includes equity considerations						

## Feedback from Integration Team:

- Captured breadth of potential scenarios
- Status quo scenario?
- Scale: stock or geographic unit vs. basinwide
- Starting point: biological strategies or SCEE/governance considerations?
- Need bold, brave, new action
- Pros/cons of resemblance to NEPA document
- A la carte menu idea

# Feedback from Intregation Team

- Scenario based on beneficial uses of hatchery supplementation?
- ID common themes we all agree on?
- Connection between scenarios and provisional goals
- Traditional vs. out of box scenarios
- Clout
- Can't have it all



# Condensed to Four Scenario Themes

- Intended to bookend range of approaches
- Also condensed table format
- Fleshed out biological strategies but not other components (also added a few placeholders)
- Bio strategies focus on initial time period
- Elements of the previous 9 themes could be incorporated as components
- Much fleshing out still to do (see components in table)

## Next Steps

- Do these represent a range of alternatives that:
  - It would be illuminating to evaluate tradeoffs among?
  - It would be useful to explore in more detail?
  - Other proposed themes? (including starting with SCEE, governance, future world)
  - Scale – possible role for regional groups
  - Who/how flesh out?