



Finish Discussion and Development of Technical Recommendations

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First, a Quick “Look Ahead” to the Implementation Plan

- **Objectives, Strategies, and Actions**

- Address water shortages or other identified issues
- Informed by the recommended water management strategies and other Plan recommendations made by the RBC

- **Schedule**

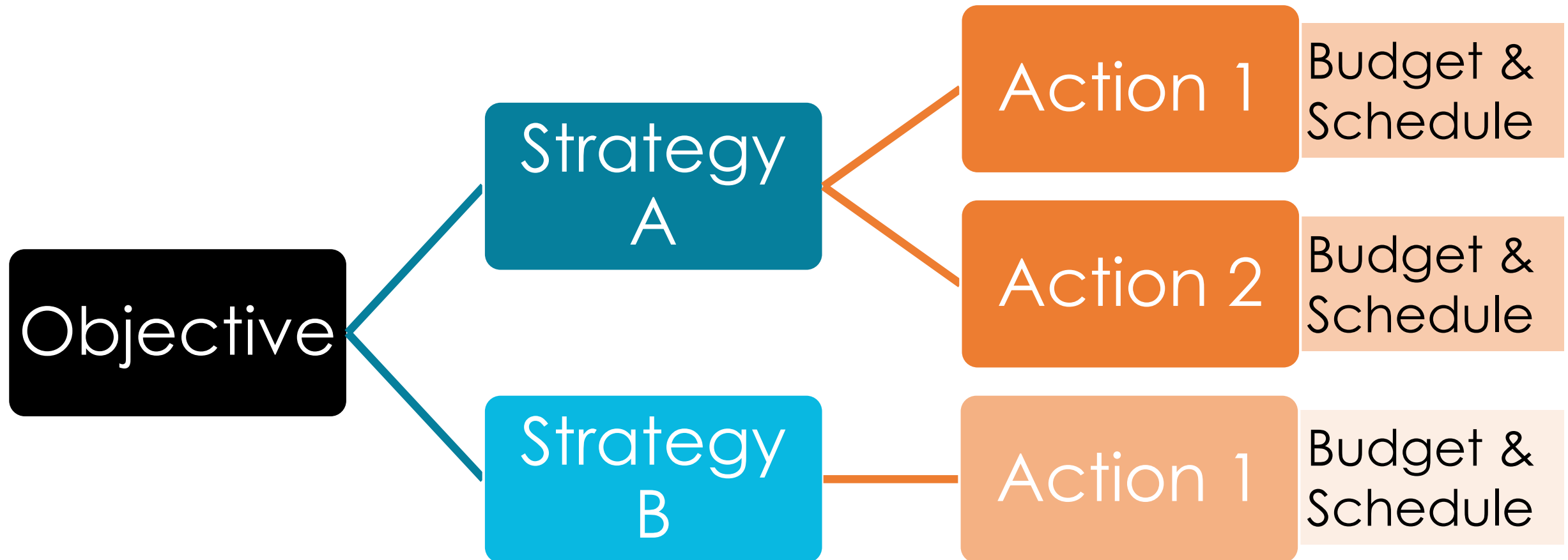
- Focuses on the first 5 years following adoption of the River Basin Plan

- **Budget**

- Budget needed to accomplish each objective
- Identifies potential funding sources

Implementation Plan

Objectives, Strategies & Actions



Implementation Plan – Broad RBC Identified Objectives

Objective	Prioritization	Prioritization Justification
Objective 1. Improve water use efficiency to conserve water resources	High	The Broad RBC did not find the strategies associated with one of these objectives to be of higher priority than another. Each water withdrawer will ultimately determine which strategies to prioritize based on their individual circumstances.
Objective 2. Optimize and augment sources of supply	Medium	
Objective 3. Improve drought management	High	Maintaining up-to-date drought plans is critical for public supplier response and to coordinate actions at a basin- and state-level.
Objective 4. Effectively communicate RBC findings and recommendations	High	Communication is essential to ensuring all objectives are pursued by stakeholders.
Objective 5. Improve technical understanding of water resource management issues	Medium	Additional technical information is necessary to inform and continually update the RBC's understanding of basin issues and best practices to manage concerns.

- Objectives should be ranked by importance and prioritized
- Each objective should include a justification describing its importance to water management in the basin

How do Recommendations Feed the Implementation Plan? **An example from the Broad:**

Broad RBC Recommendation:

The Broad RBC should identify the financial impacts of increased sedimentation on reservoirs and water resources and communicate the results to local governments to demonstrate the value of riparian buffers, sedimentation and erosion control measures, and other policies and controls that reduce sediment generation and transport. The RBC noted that proper protection of riparian buffers to minimize sedimentation requires both cooperation between jurisdictional governments and enforcement of existing policies.

How do Recommendations Feed the Implementation Plan? **An example from the Broad:**

Objective 5. Improve technical understanding of water resource management issues

Strategy C. Research financial impacts of increased sedimentation on reservoirs and water resources and communicate impacts to local governments.

Five Year Actions:




1. Using estimates of sedimentation, and considering future land use (2070), estimate current and future loss of storage to Broad River basin reservoirs (yrs 1-2)

2. Develop methodology to estimate financial impacts related to loss in storage (yrs 1-2)

3. Communicate financial impacts of sedimentation in reservoirs to local governments (yrs 3-5)

Remaining **Yellow Bucket** Recommendations



-  Audit and update the State stormwater standards to reflect new storm scenarios and data and consider regional differences. Mandate analysis of new development's impact in receiving water bodies on a watershed scale.
 - How would DES analyze it and approve plans?
-  Extend flood mapping in SC to include the 100-yr floodplain in all areas and expand with additional (200, 500, and 1,000) with the most recent, current, and up-to-date technology and data, to reflect current land-use patterns and recent weather patterns. The data should be made publicly accessible.
-  Fund all existing and future state agency recommended streamflow gage locations.

Remaining **Yellow Bucket** Recommendations



- Recommendations for technical studies to improve knowledge of specific issues.



- Are there specific studies needed? Is improved instream flow requirement information needed?



- State to request for and cost-share in the completion of Phase 2 of the USACE Comprehensive Study and Drought Plan Update.

- RBC encourages USACE to be more proactive and incorporate forecasting into drought decision-making. (mention groundwater)

Savannah River Basin Comprehensive Study

- Phase 1 obtained an unimpaired inflow dataset; developed and improved the HEC-RESSIM model of the Savannah Basin to include pumped storage, system power, and drought triggers; and conducted a water use survey.
- Phase 2 evaluated drought rules and the need of changing the drought trigger levels.
- Phase 3 would investigate reallocation of water within the reservoirs (up to 15%) using tandem vs individual projects, and updated yield calculations.
- Phase 4 would examine more comprehensive modifications to the 3 reservoir system operations in drought, normal and flooding.



Support collection of additional fish and invertebrate data to enable develop of flow-ecology relationships in the Blue Ridge Province.