



**COLUMBIA BASIN
FISH AND WILDLIFE
AUTHORITY**

Amendment Strategy for Fish

Members Meeting
September 18-19, 2007



Member Directives to Technical Committees

- **Define/clarify terms (i.e., focal populations, biological objectives, strategies, limiting factors, and causative factors)**
- **Confirm population level biological objectives**
- **Ensure priorities of all F&W plans are captured**
- **Validate current limiting factors including out-of-basin effects**
- **Review and build on strategies and actions necessary to reduce the limiting factors**

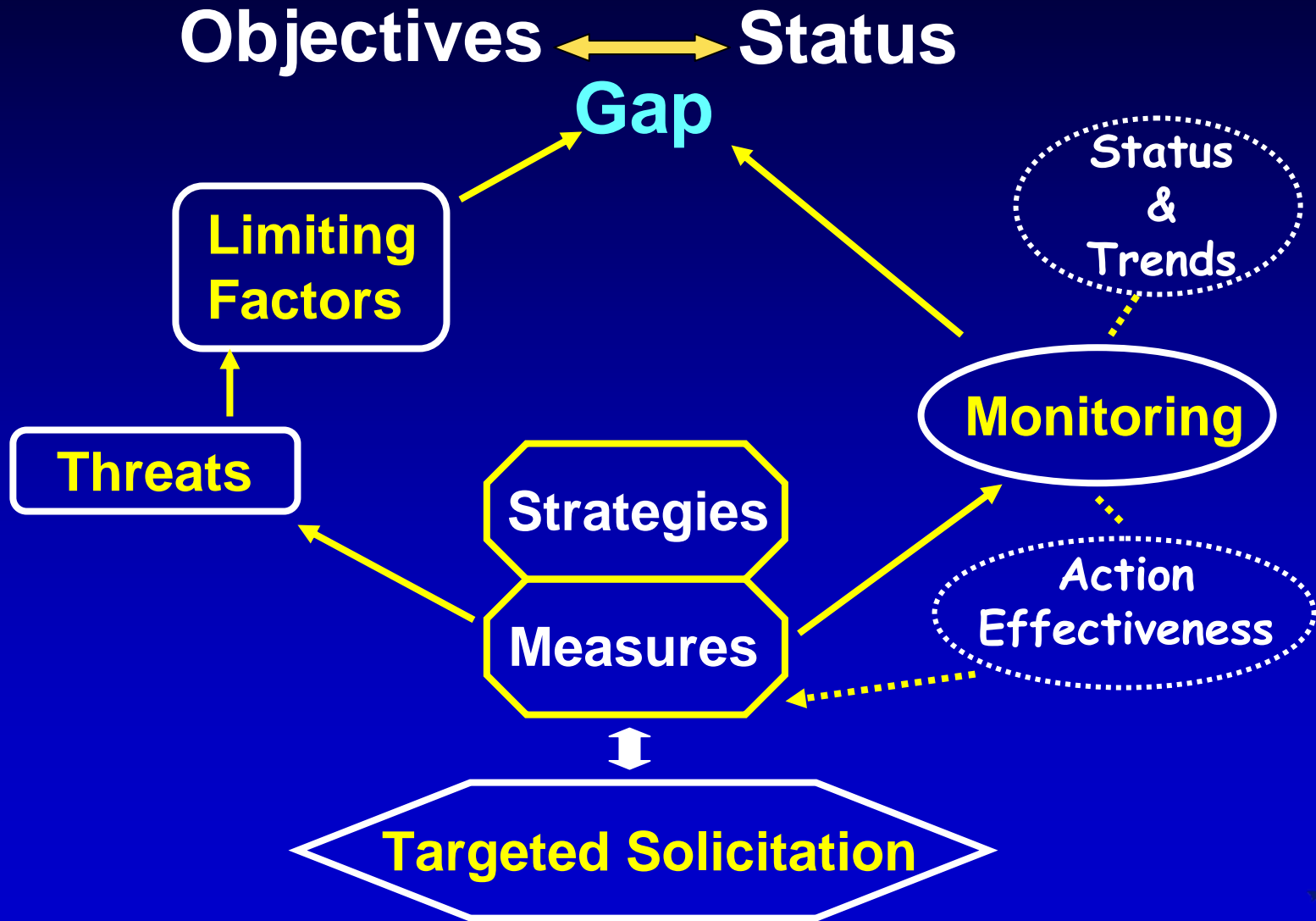


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From Objectives to Solicitation



Example:

Walla Walla River Steelhead

Objectives:

- Minimum 1,000 adults (*TRT*)
- Population status = viable
(*draft recovery plan*)
- 3,000 adults (**subbasin plan**)

Status:

- Threatened – “Maintained”
- 374-2,417 adults (mean = 1,042)



Example:

Walla Walla River Steelhead

Limiting Factors (Threats):

- **Habitat access**
 - mainstem dams; within subbasin barriers
- **Physical habitat quality/quantity**
 - current land use
- **Water quantity**
 - current land use
- **Water quality**
 - current land use
- **Population traits**
 - hatchery practices



Example:

Walla Walla River Steelhead

Strategy: —————→ **Limiting Factor**

- Restore passage and connectivity (**Mill Creek and Pine Creek**)

Measures: —————→ **Threats**

- Remove or replace culverts
- Provide adequate screening



AFAC To Do:

- **Template framework for all anadromous populations**
 - NOAA information
- **Populate templates**
 - F&W manager input
 - NOAA information
- **Prioritize measures**
 - AHA?
- **BPA obligation**
 - AHA?



RFAC To Do:

- **Populate templates**
 - F&W manager input
- **Resident fish loss procedures**
- **Resident fish / anadromous fish conversion formula**



Amendment Timeline and Deliverables

