

Sacramento River Fall Chinook FMP Amendment Planning



Outline

- Components to be considered within the FMP Amendment
- Determining objective scientific elements (peer review process)
- Development of FMP amendment alternatives and analysis
- Tentative Timeline
- Questions for the Council

Components to be considered within the FMP Amendment

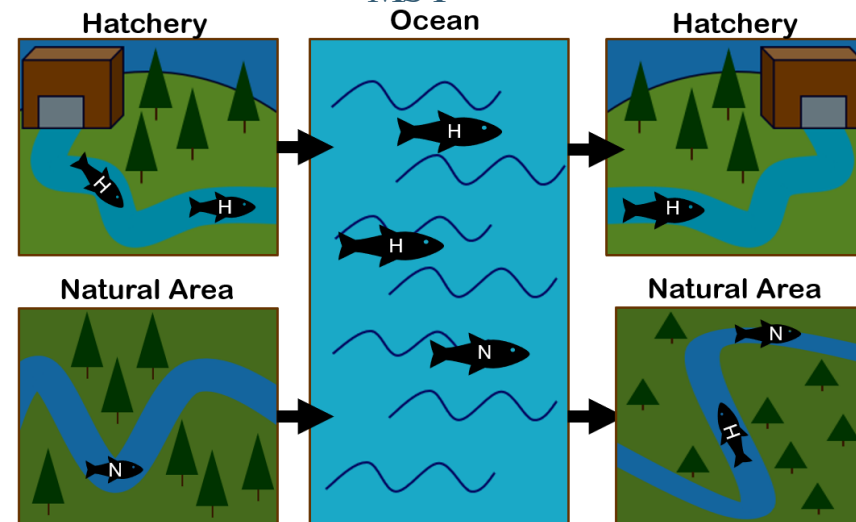
- F_{MSY} : fishing mortality rate that results in MSY over the long term
- S_{MSY} : number of adult spawners that is expected to, on average, produce MSY
- Conservation Objective
- Harvest Control Rule

Components to be considered within the FMP Amendment

- F_{MSY} : 0.58
 - Updated via the 2024 Salmon Methodology Review
- S_{MSY}
- Conservation Objective
- Harvest Control Rule

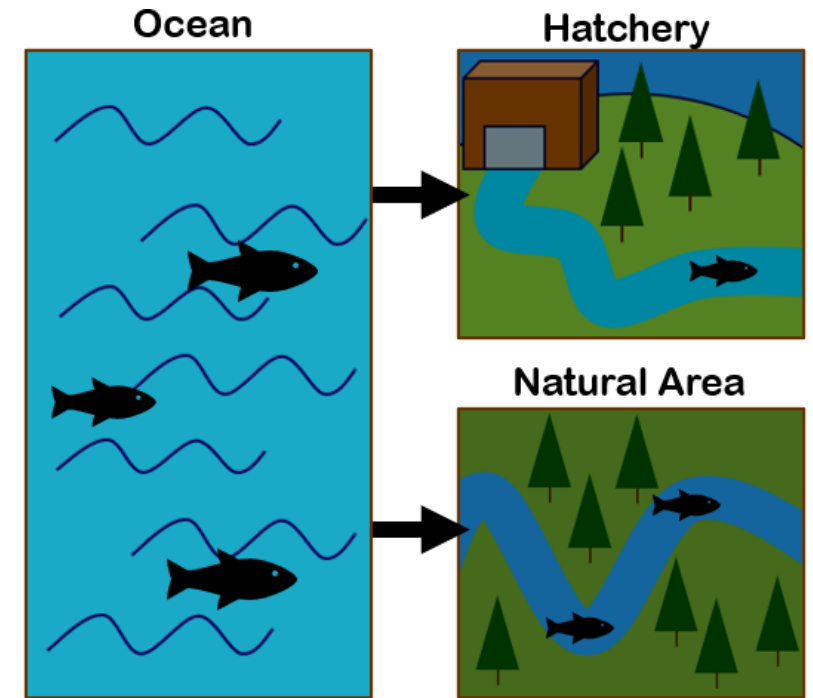
Components to be considered within the FMP Amendment

- F_{MSY}
- S_{MSY} : 122,000 total (natural + hatchery) adult spawners
 - Spawners needed to produce maximum sustained yield over time
 - $S_{MSY} = F_{MSY} \times S_{MP}$
 - SRWG has developed analysis for four approaches, with one preferred approach, for determining S_{MP} and therefore S_{MSY} in terms of natural area spawners
- Conservation Objective
- Harvest Control Rule



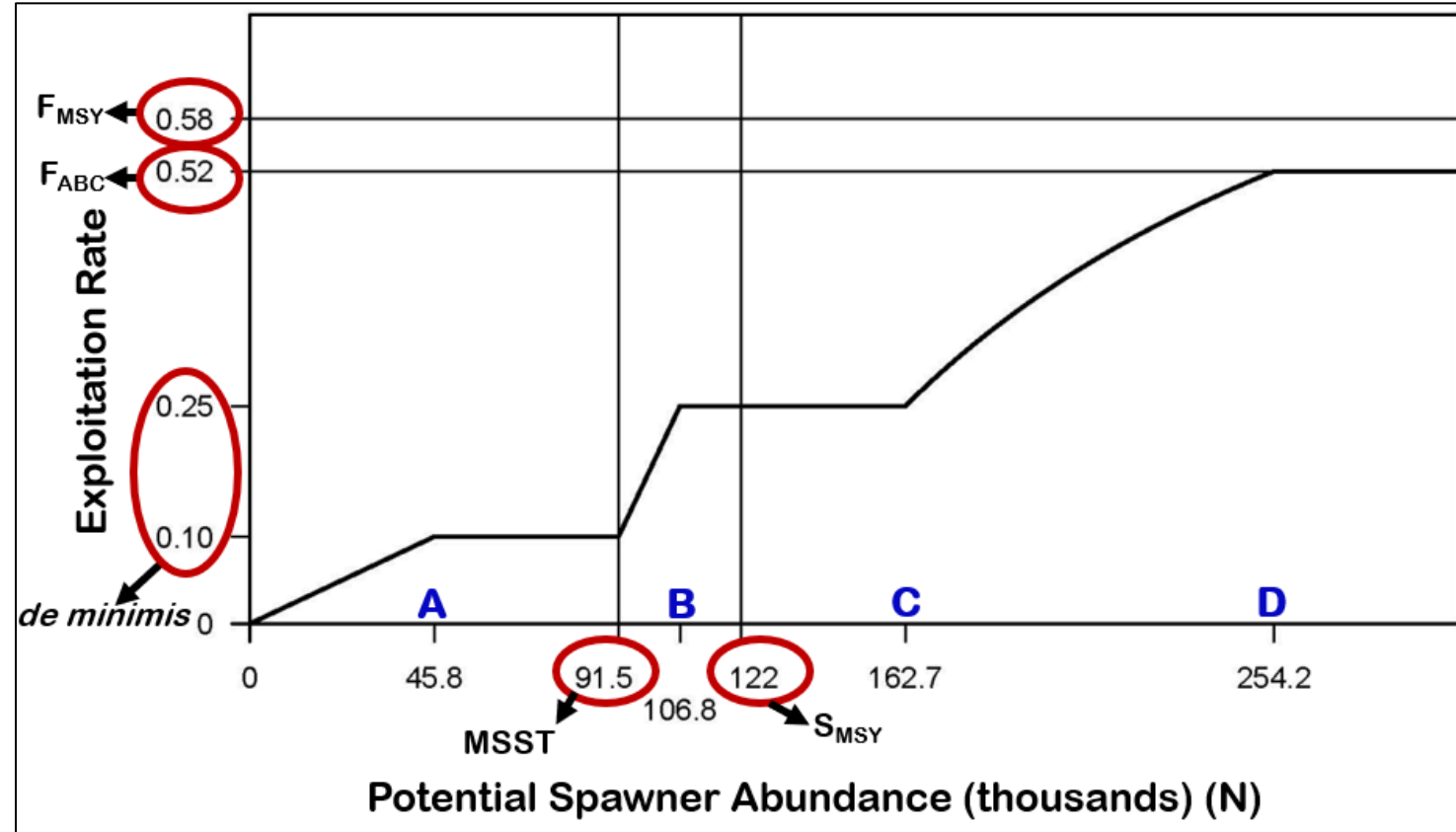
Components to be considered within the FMP Amendment

- F_{MSY}
- S_{MSY}
- Conservation Objective: 122,000 – 180,000 adult (age-3+) spawners in natural areas and hatcheries combined
 - SRWG has proposed an approach for determining a method for establishing a total escapement objective that is inclusive of escapement needs to both natural areas and hatcheries
- Harvest Control Rule



Components to be considered within the FMP Amendment

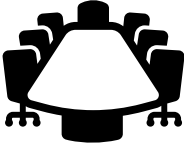
- F_{MSY}
- S_{MSY}
- Conservation Objective
- Harvest Control Rule: structured around the F_{ABC} ($0.90 * F_{MSY}$), MSST, S_{MSY} and has two levels of de minimis exploitation rates

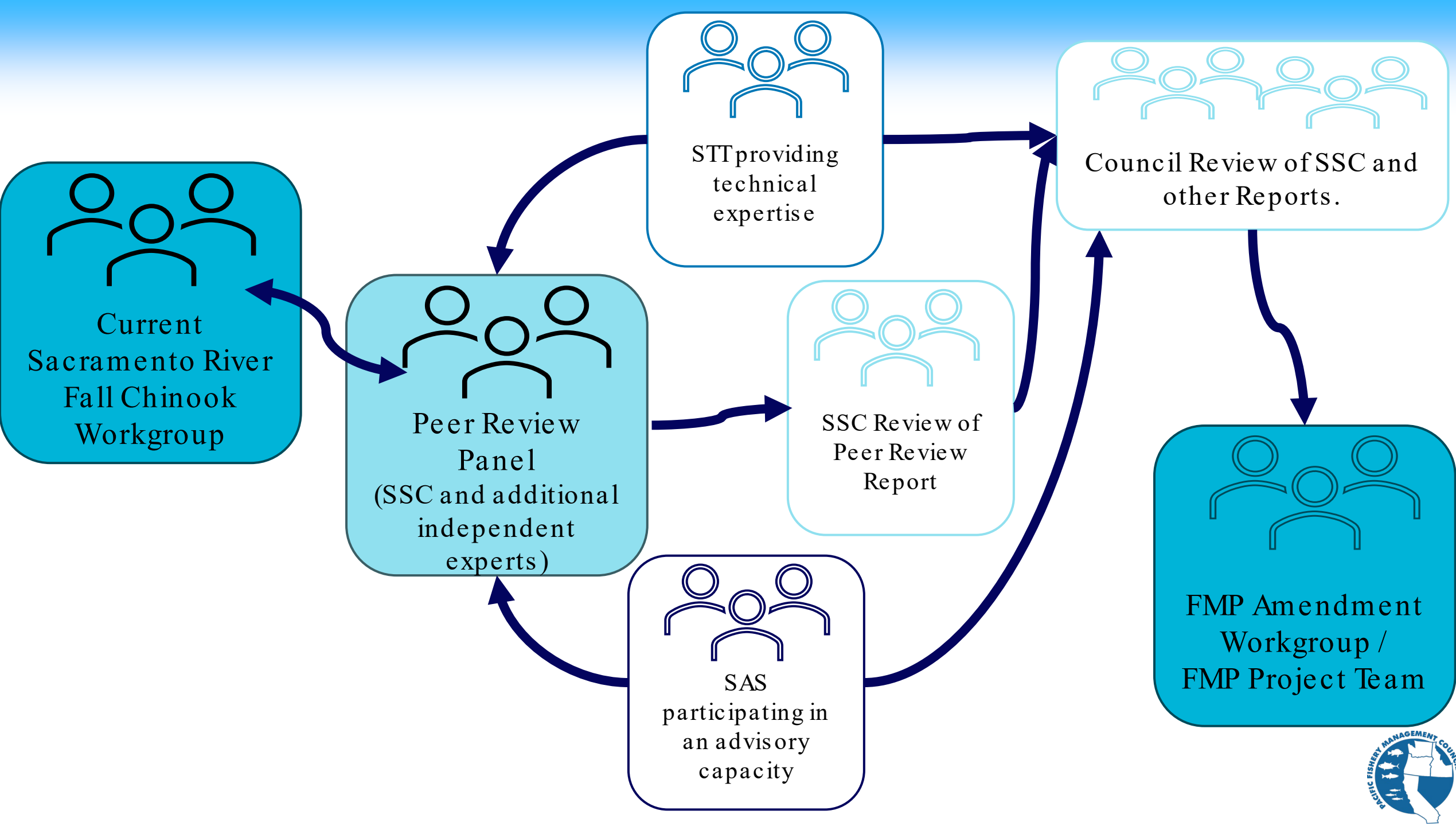


Updating Reference Points

- The S_{MSY} (and F_{MSY}) are scientific values and their determination must follow policies regarding the use of the best scientific information available and peer review
- Knowing the reference points will help when analyzing the impacts of different conservation objectives and harvest control rules
- Council has indicated the Salmon Methodology Review may not be the correct peer review process, given the high impact and influence an updated S_{MSY} value will have on salmon management
- Council should coordinate with NMFS to develop a peer review

Examples for Consideration

1. Basic peer review 
 2. Interactive review with iterations 
 3. Review with additional analysis 
- Panel composition: Could include one designated chair, members from the SSC-SSC, and additional qualified external experts (such as from the Center for Independent Experts or Alaska Department of Fish and Game)
 - SRWG members could be tasked with developing materials for the peer review



Development of the FMP Amendment Alternatives

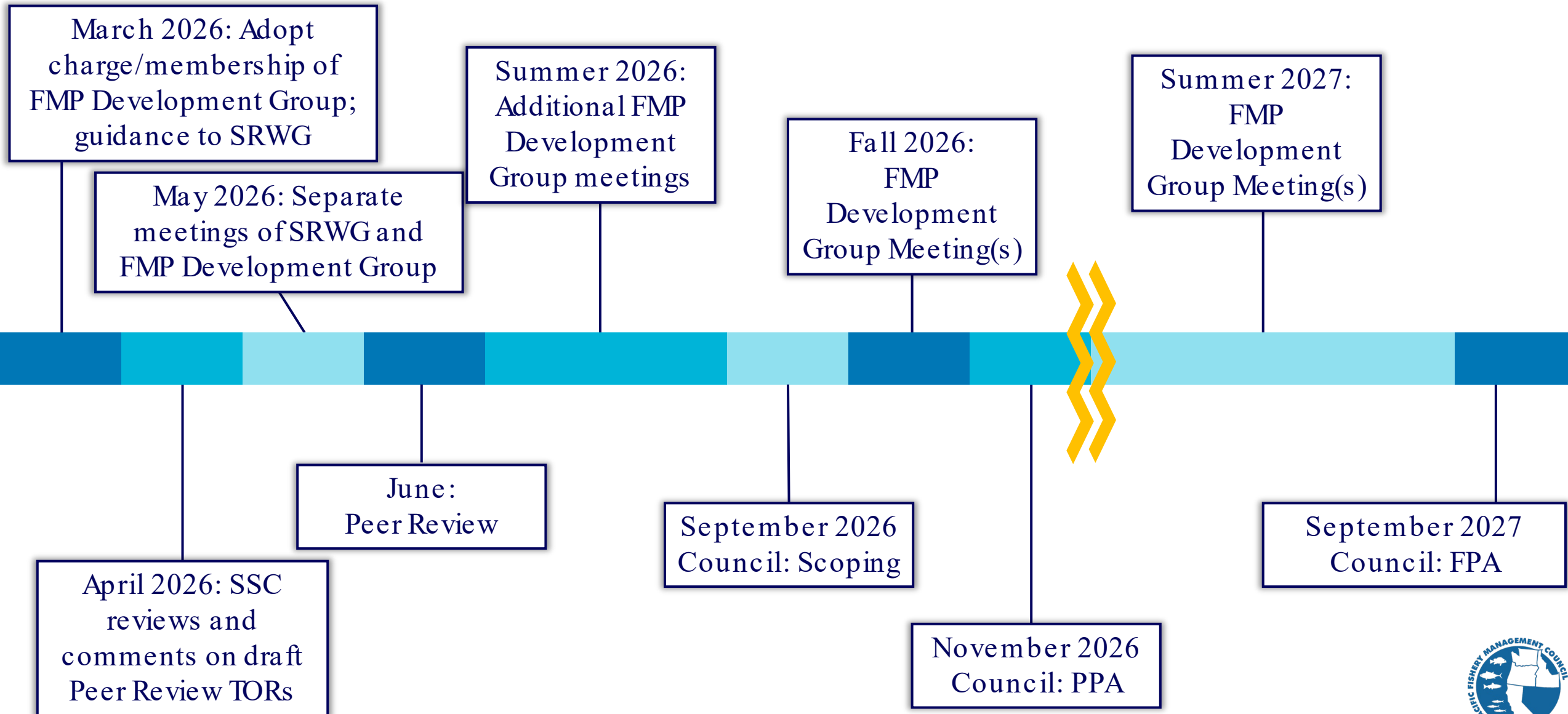
Multidisciplinary FMP Amendment Group:

- Policy representation from NOAA, ODFW, and CDFW
- Expertise in social and economic analysis
- Proficiency with current California salmon modeling tools
- Experience with developing and assessing fishery harvest control rules
- Industry experience and on-the-water knowledge
- Familiarity with land and water management in the Sacramento River Basin
- Strong scientific background in Sacramento River salmon ecology and population dynamics

FMP Project Team:

- Smaller group, comprised of Council staff and NMFS staff
- STT, SAS, and other individuals would support development of alternatives
- Utilize the Council process to gain public input on alternatives

Tentative Timeline



Questions for the Council

1. Does the Council wish to begin the FMP amendment process and approve the tentative timeline, as outlined in Attachment 2?
2. Does the Council wish to form a SRFC FMP Amendment Workgroup (with broad membership) or leverage a smaller FMP Project Team (primarily NMFS and Council staff) that leans heavily on Council advisory and technical teams to develop the FMP amendment alternatives?
3. What feedback does the Council have on the development of an independent peer review process and the scope and objectives for such a review?