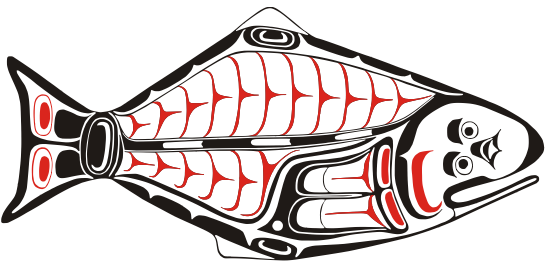


IPHC staff workplan for MSAB from May 2016 to May 2018

An Overview

Allan C. Hicks

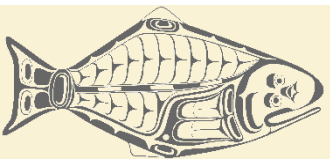
May 9-10, 2016



What is the work plan?

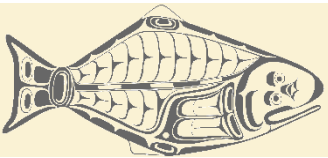
- A plan describing tasks that will be carried out for the next 2 years
- A timeline for when work on those tasks will be done and be reported

- This is flexible and likely to be changed
 - With the guidance of the MSAB and SRB
- Presented in a sort of sequential order, but is not prioritized
- Descriptions can be used as a reference in the future
- Mainly directed toward me, but this is not the only work that I will do
- I may have slightly different definitions of some terms
 - Please ask if there is any confusion



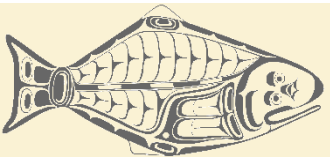
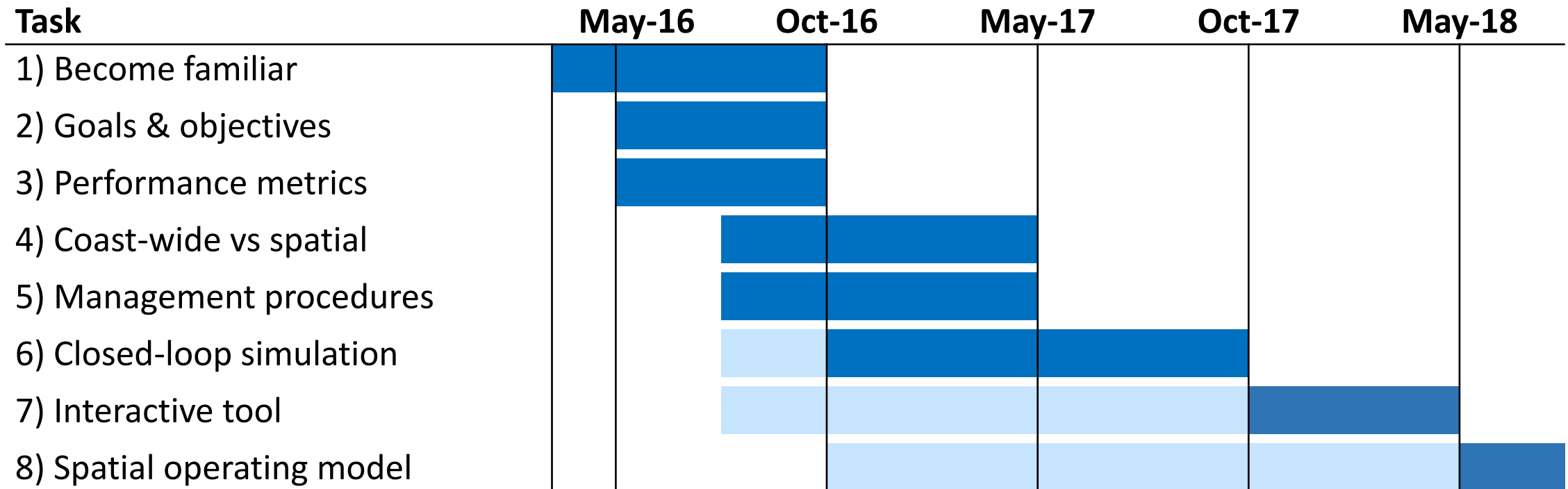
Where are we?

- There have been 6 meetings in 3 years with Dr. Steve Martell
- Past major accomplishments
 - Familiarization with the MSE process
 - Defined goals for the halibut fishery and management
 - Development of objectives and performance metrics from those goals
 - Identification of some management procedures
 - Developed an interactive tool (the Shiny application)
 - Discussions about coast-wide and spatial models



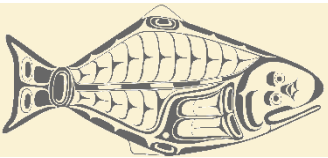
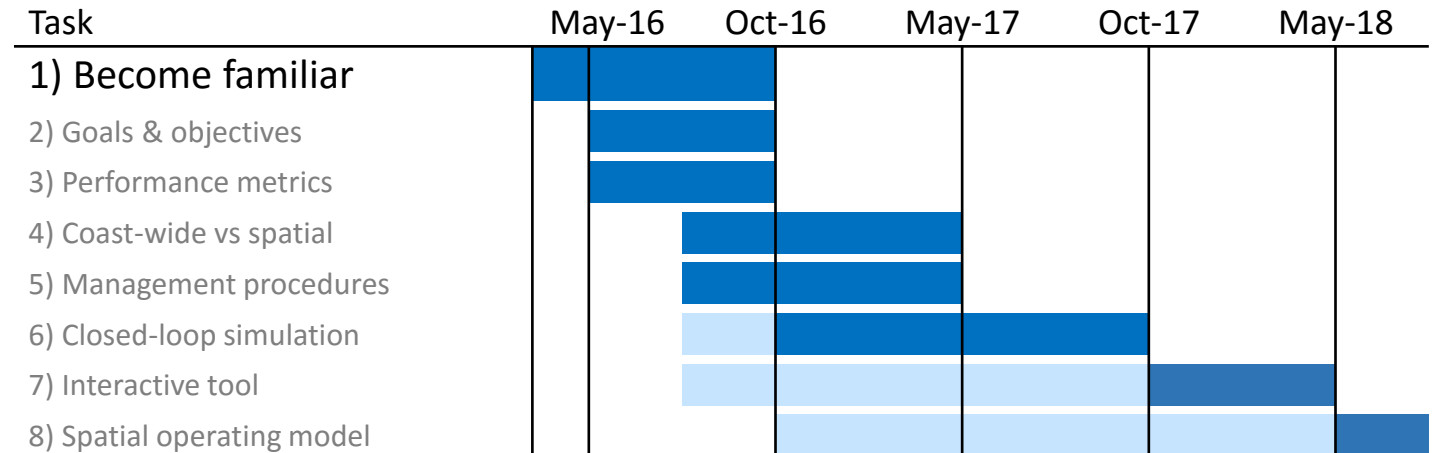
Where do we go from here?

- My vision is to
 - Keep moving forward
 - Use what has been learned to make progress on investigating management strategies
 - Move to the next step of introducing uncertainty in the projections



Task 1: Become familiar with halibut and past

- It will take some time for me to
 - Become familiar with IPHC process
 - Learn about the management of halibut
 - Review past documents and meetings
- Develop a process for planning, reporting, and reviewing projects

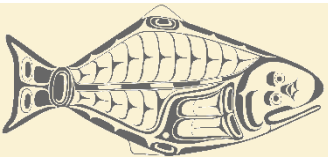
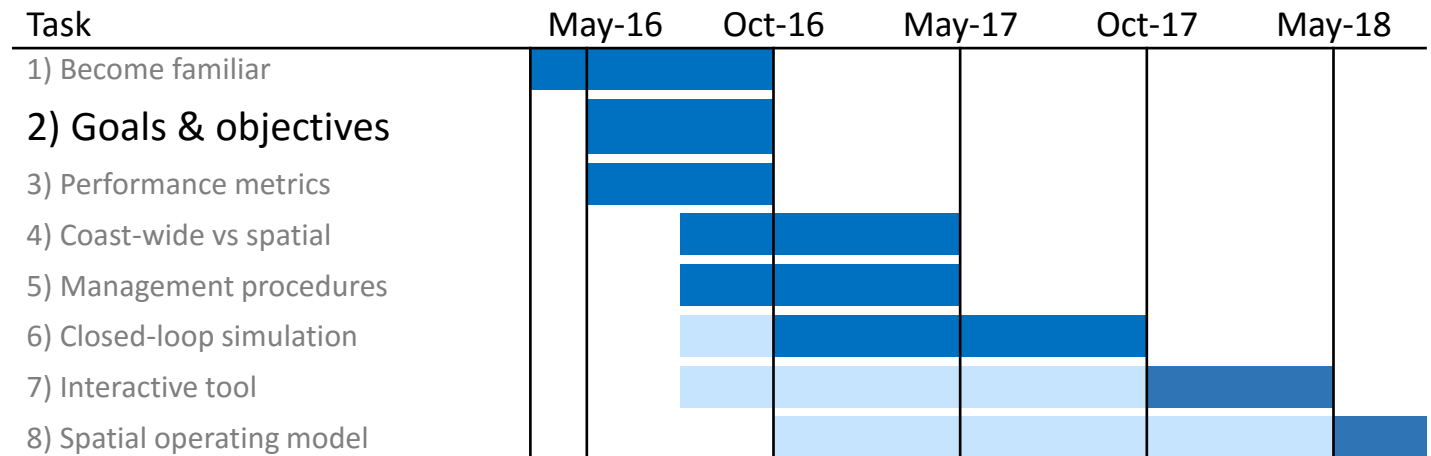


Task 2: Verify goals and objectives

- Review the current goals and objectives
- Revise if necessary
- Translate into measurable objectives

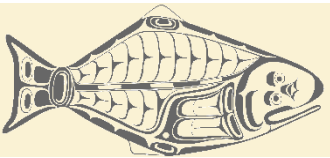
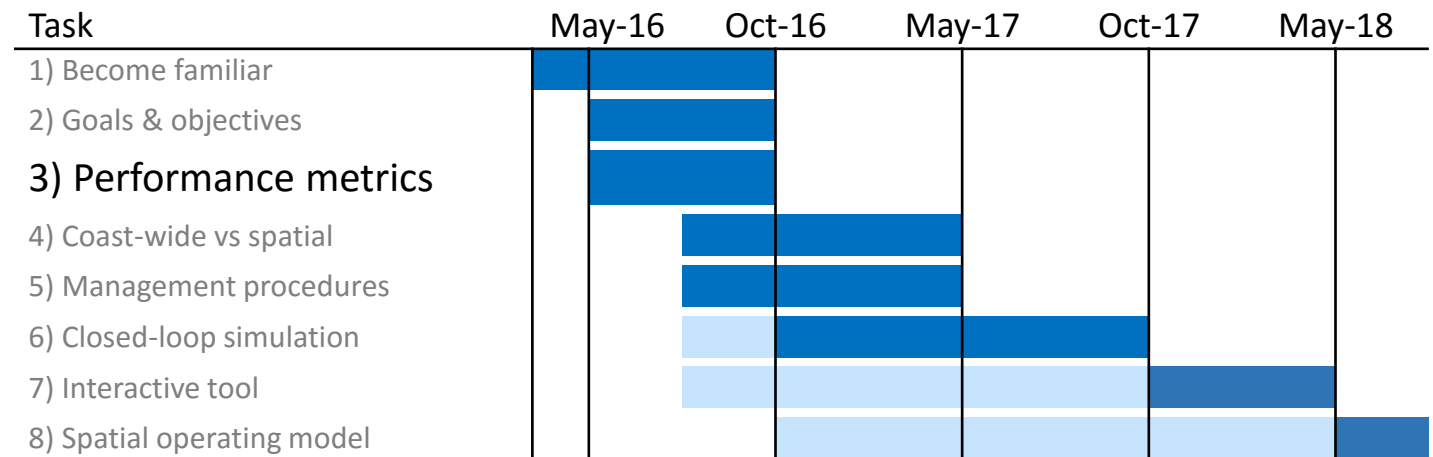
Five Overarching Goals

- Biological sustainability
- Fishery (all directed fisheries) sustainability and stability
- Assurance of access – minimize probability of fishery closures
- Minimize bycatch mortality
- Serve consumer needs



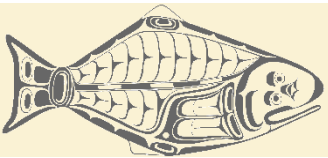
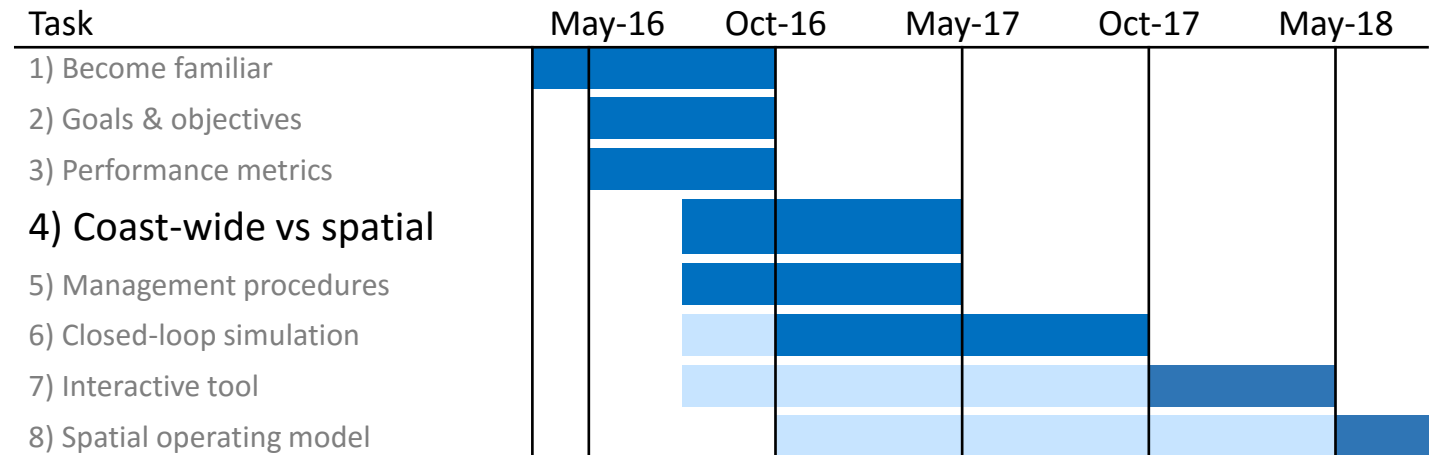
Task 3: Develop and refine performance metrics

- Performance metrics gauge performance relative to objectives
- Key to communicating outcomes
- Determining important and useful metrics, as well as how to present them will assist with interpretation of MSE results
- Review existing performance metrics and develop new ones as needed



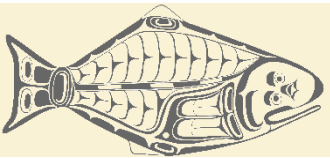
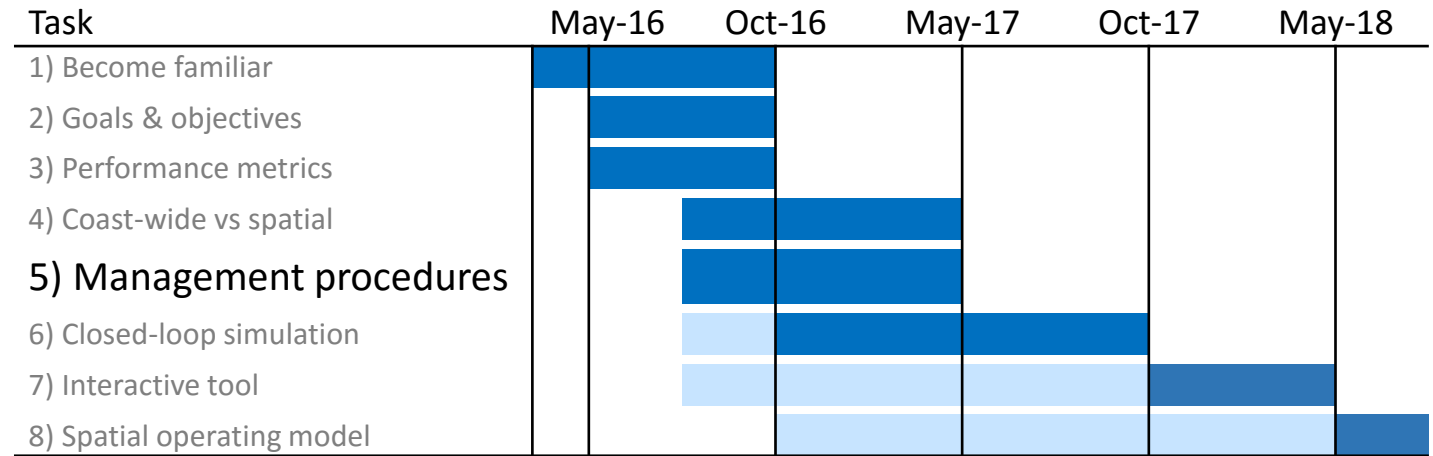
Task 4: Coast-wide vs spatial models

- Model complexity is an important factor to consider
 - Affects run time
 - Determines what questions can and cannot be addressed
- Comparing coast-wide and spatial models will help see what questions we can answer more immediately, and what will have to wait
- Goals and objectives can be linked to this comparison



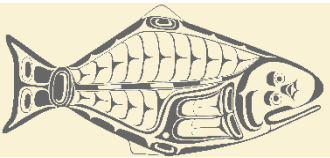
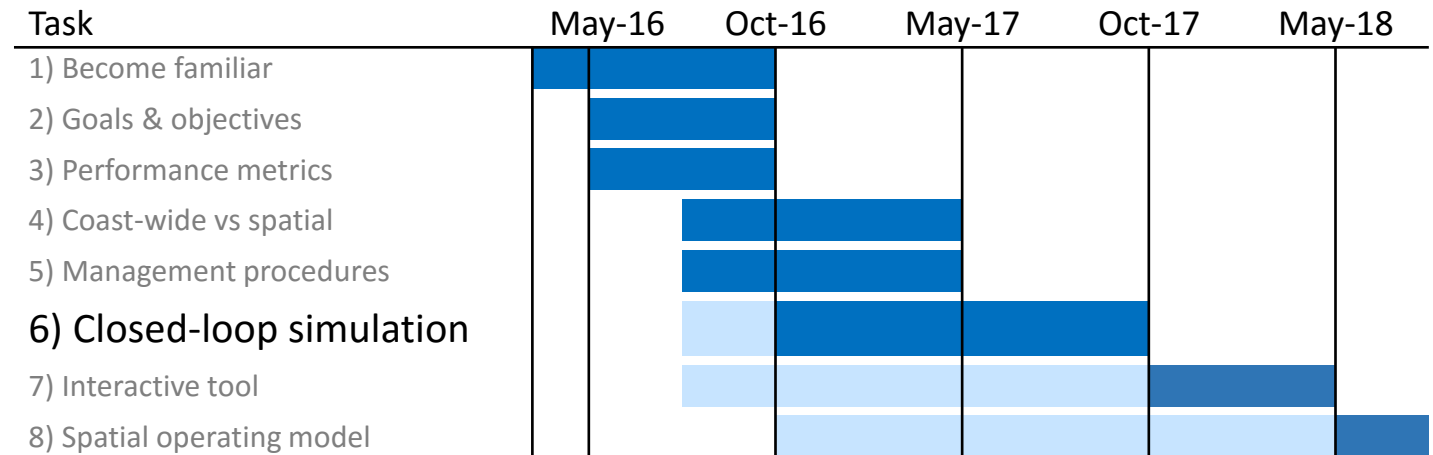
Task 5: Identify management procedures to evaluate

- The purpose of a MSE is to evaluate management procedures
- Need to work as a group to develop management procedures
- Begin with the current harvest policy and expand from there



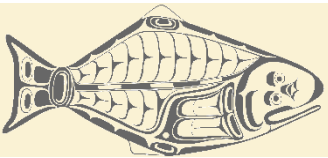
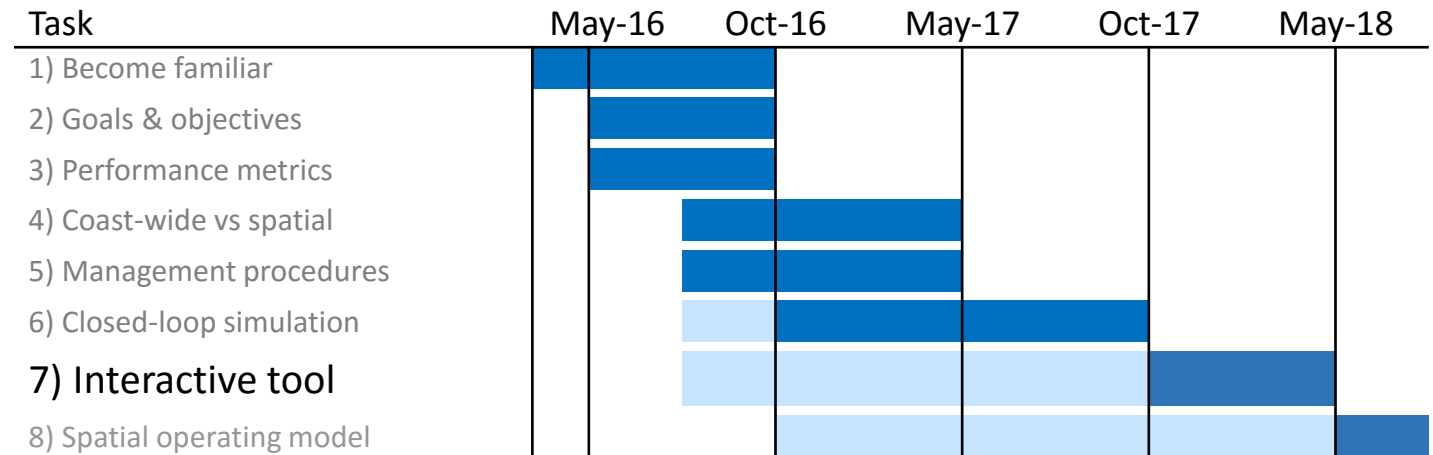
Task 6: Develop a closed-loop simulation framework

- This is the engine of the MSE
- Expand upon the equilibrium model to include variability
- My goal is to make this general
 - Easily adapted to alternative models and management procedures
 - Others may use the framework



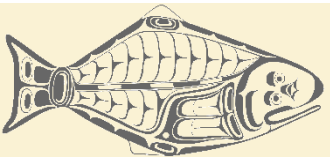
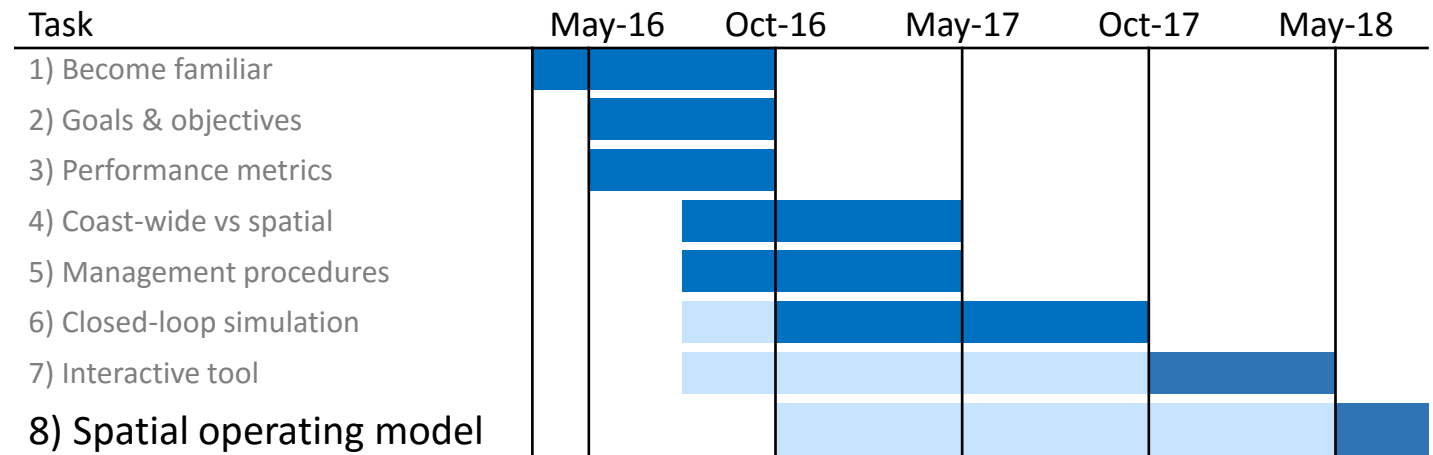
Task 7: Further development of the interactive tool

- The interactive tool (Shiny app) seems to be of interest to stakeholders
- Expand upon the equilibrium model (i.e., closed-loop simulations)
 - Current tool is fast and still useful to eliminate some management procedures



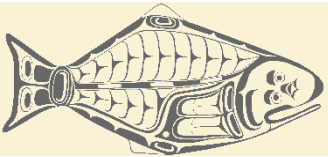
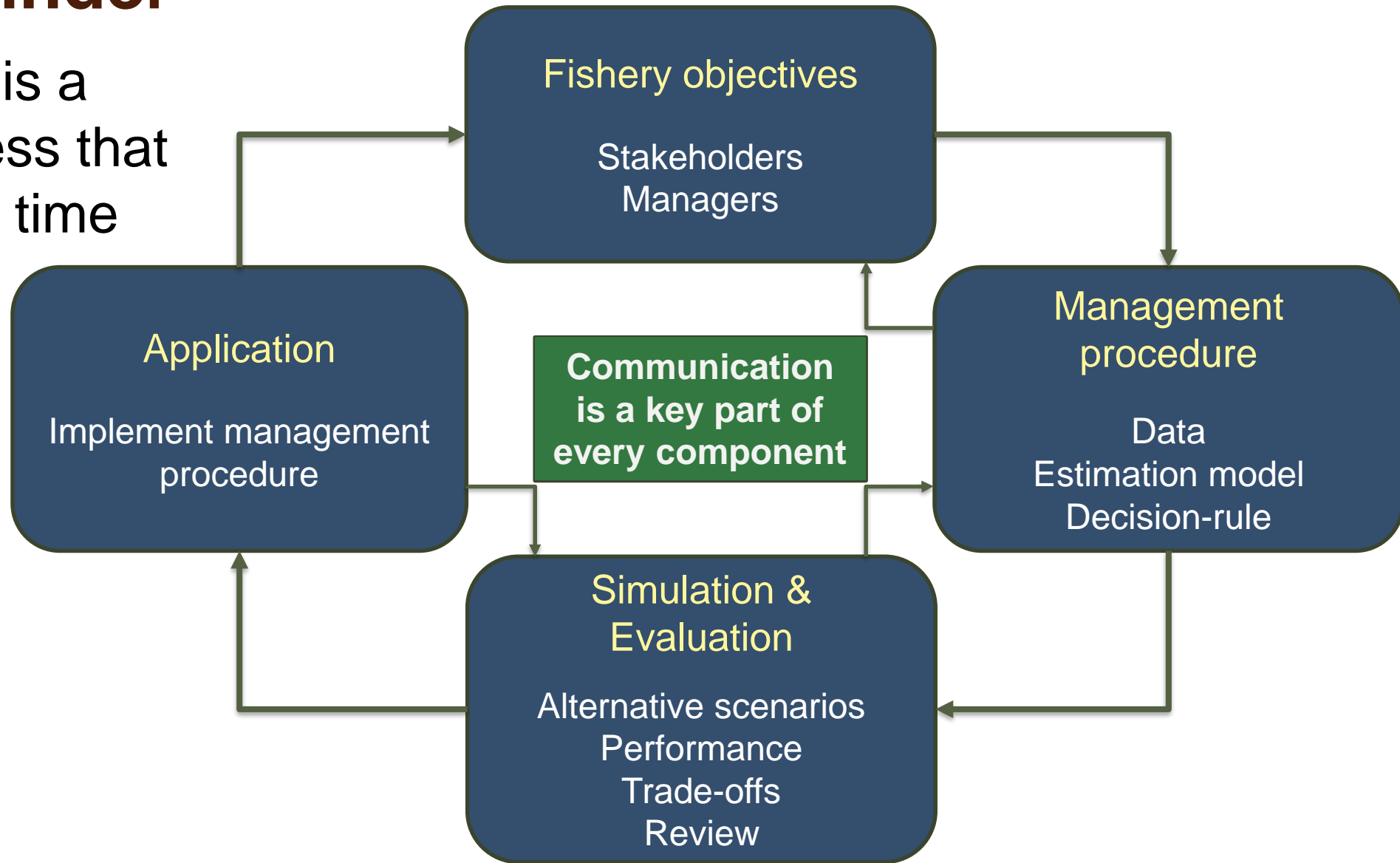
Task 8: Spatial operating model

- A spatial operating model will help to answer many area-specific questions
 - Need to identify those questions so that can develop appropriate spatial model
- This is a complex task and will take time

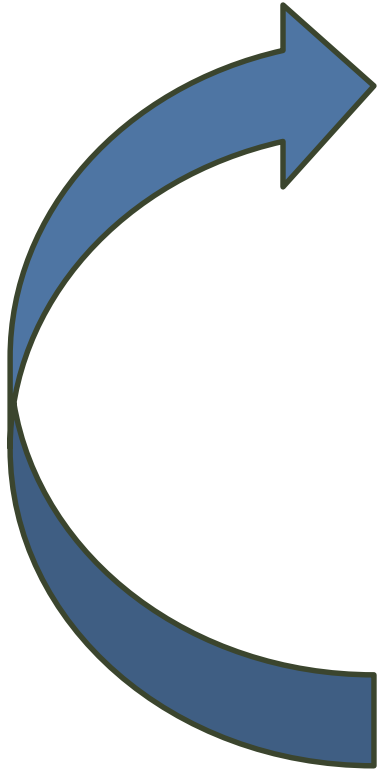


A reminder

- MSE is a process that takes time

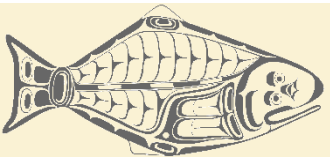


An adaptive stakeholder driven process



- Review: work that has been done
- Consult: with stakeholders
- Refine: goals, objectives, management procedures
- Change: inputs and methods
- Report: results from simulations and evaluations
- Choose: best performing management procedures

REPEAT



Thought provoking questions

1. Do the overarching goals still represent your goals?
2. Where do you see the MSAB in 2 years?
3. What types of interactions are helpful for you to understand and contribute to the MSE process?
4. What is a useful and efficient annual process for the MSAB?
5. Do you have any advice for me?

