ECOSYSTEM & SOCIOECONOMIC PROFILES

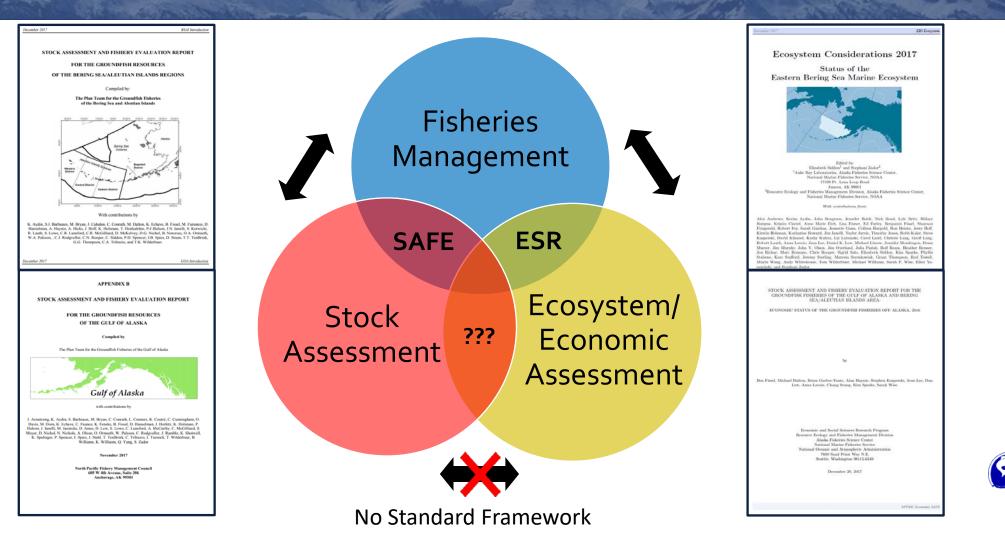
KALEI SHOTWELL, JUNE 1 & 8, 2020

ESP Definition: A standardized framework that facilitates the integration of ecosystem and socioeconomic factors within the stock assessment process and acts as a proving ground for use in management advice.



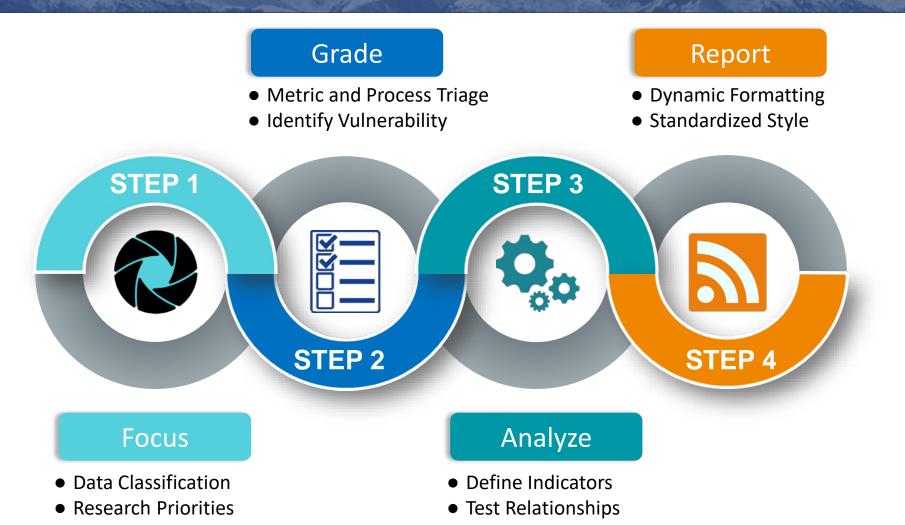


COMMUNICATION GAP





ESP PROCESS





ESP PRODUCT

Appendix in SAFE Report*

- 1) Introduction: justification, data summary
- 2) Metrics Assessment: baseline, ecosystem & socioeconomic processes
- Indicators Assessment: time series suite, three stage analyses
- 4) Considerations: data gaps, researchpriorities

*Shotwell et al., In Review





METRICS ASSESSMENT

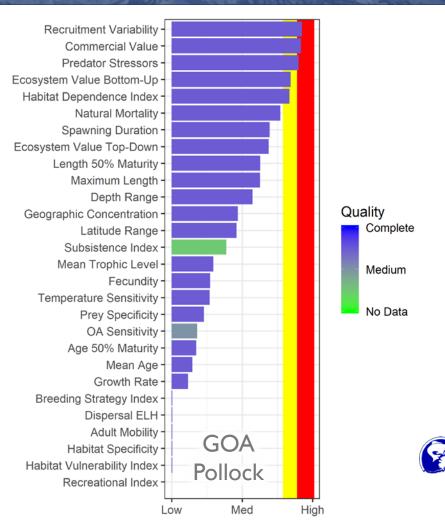
Baseline Metrics

 Standard measures of stock attributes, similar to health screening, identify unique traits

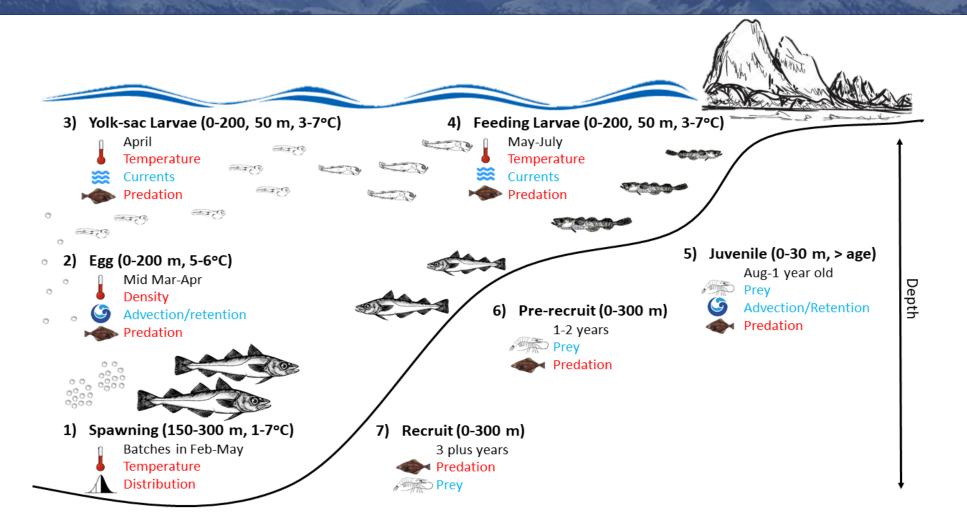
Processes and Drivers

- Ecosystem section provides info by life history stage to identify bottlenecks and mechanisms
- Socioeconomic section provides info on fishery performance, community engagement





ECOSYSTEM PROCESSES



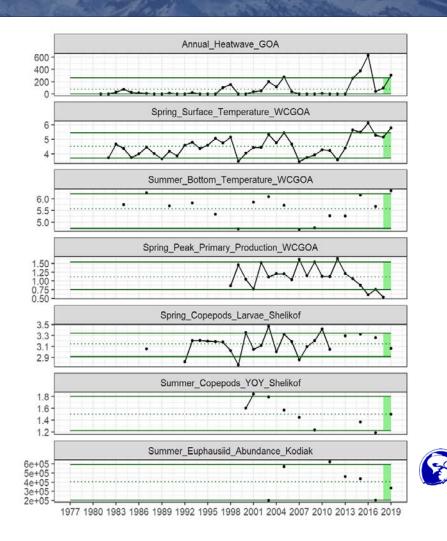


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INDICATORS ASSESSMENT

- Indicator Suite
 - Time series proxies for critical processes identified in metrics assessment
 - Long-term, easily accessible, readily updated
- Indicator Analysis
 - 3 stages: traffic light simple scoring, importance methods, research ecosystem model run
 - Use results to give context for fisheries management advice





CURRENT EVENTS

- Dedicated ESP Workshops, 2019-2021
 - Three workshops to develop and implement ESPs for the AFSC
 - Allows for group consensus, innovation, collaboration
- 2020 ESPs
 - Initiated new ESP teams (Pacific cod, crab, data-limited)
 - Executive summaries for current ESPs (Alaska sablefish, GOA pollock, St. Matthew Blue King Crab)
 - Full ESPs for EBS/GOA Pacific cod and Bristol Bay Red King Crab





WORKSHOP OVERVIEW 2019-2021

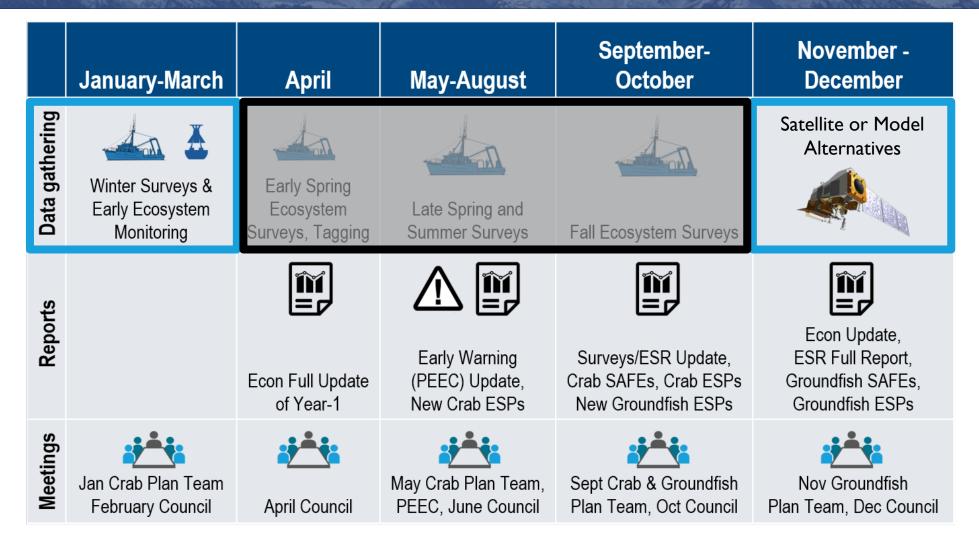
Data	Review ESP Process	Collect	Coordinate	Create
Model	Review ESP	Discuss	Perform	Improve
Advice	Update ESP	Forecast	Evaluate	Provide



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COORDINATING TIMELINES





Considerations used in contextual **Risk** manner to identify additional uncertainties not in model

Rebuilding

Readiness

Indicator suite used to inform regime for rebuilding plans



Report provides scientists and managers tools to evaluate and be prepared for potential change



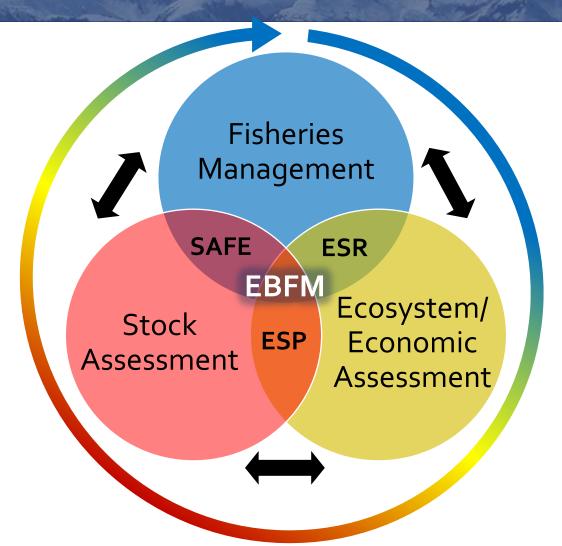
NEXT STEPS

- Summarize Workshops
 - Create technical memorandums and manuscript of ESP workshop process
 - Useful for other regions that may want to implement the ESP process
- Data Accessibility and ESP Improvement
 - Coordinate contributions between ESPs, ESRs, and Econ SAFE and increase data access by streamlining data repositories (e.g., AKFIN and ERDDAPs)
 - Improve ESP per PT/SSC/Council recommendations, maintain templates



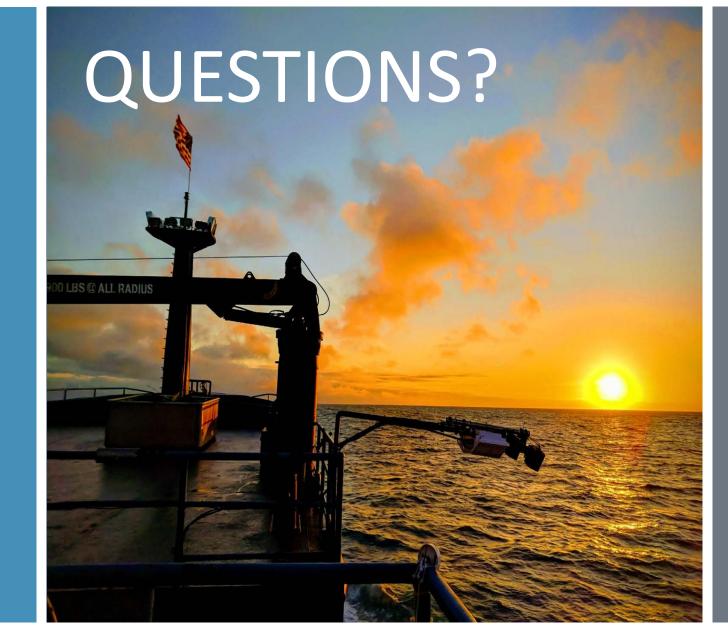


COMMUNICATION LOOP









KALEI SHOTWELL

NOAA-AFSC KALEI.SHOTWELL@NOAA.GOV