



**NOAA
FISHERIES**

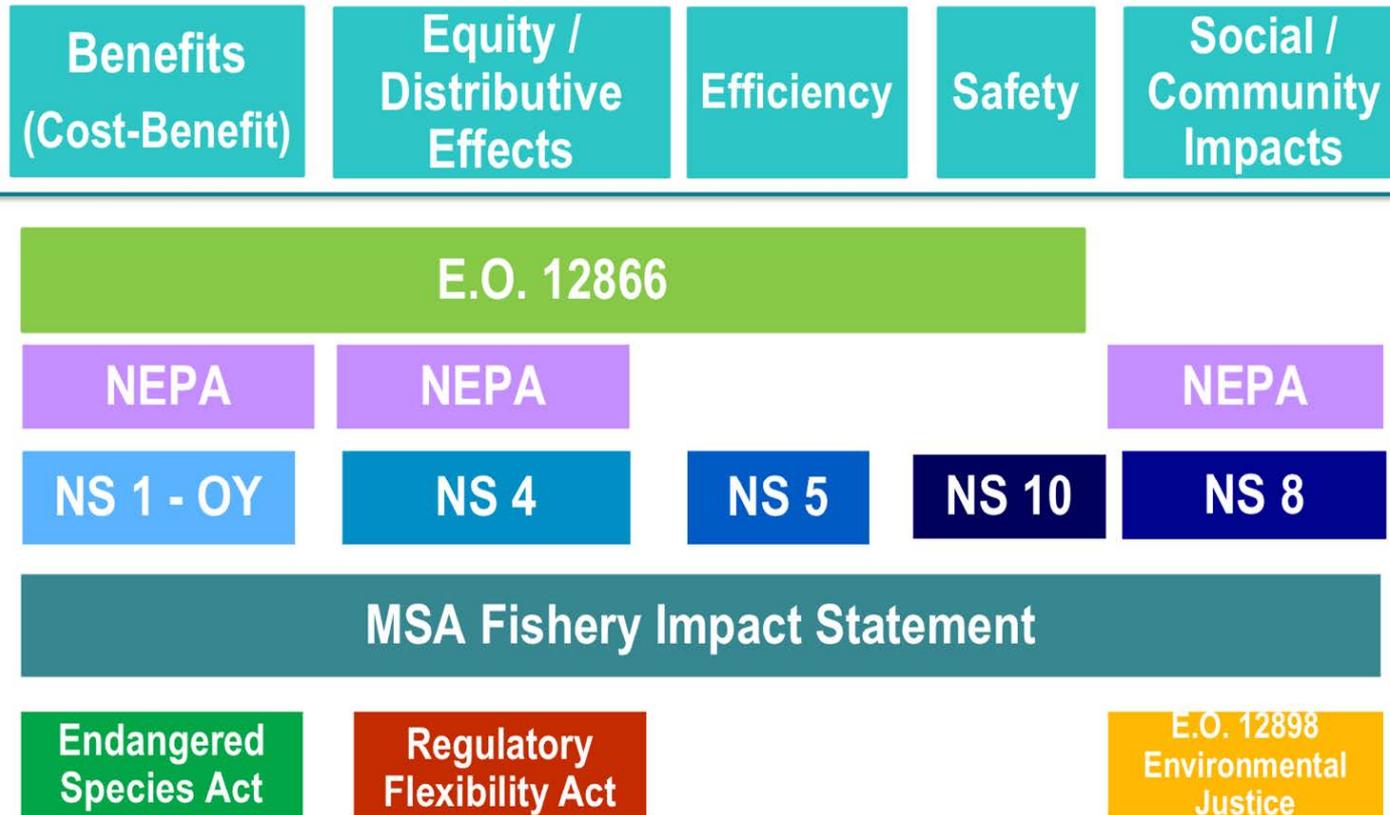
*Economics and Social Science
Research Program,
Alaska Fisheries Science
Center*

Economic Data Report Program: Overview

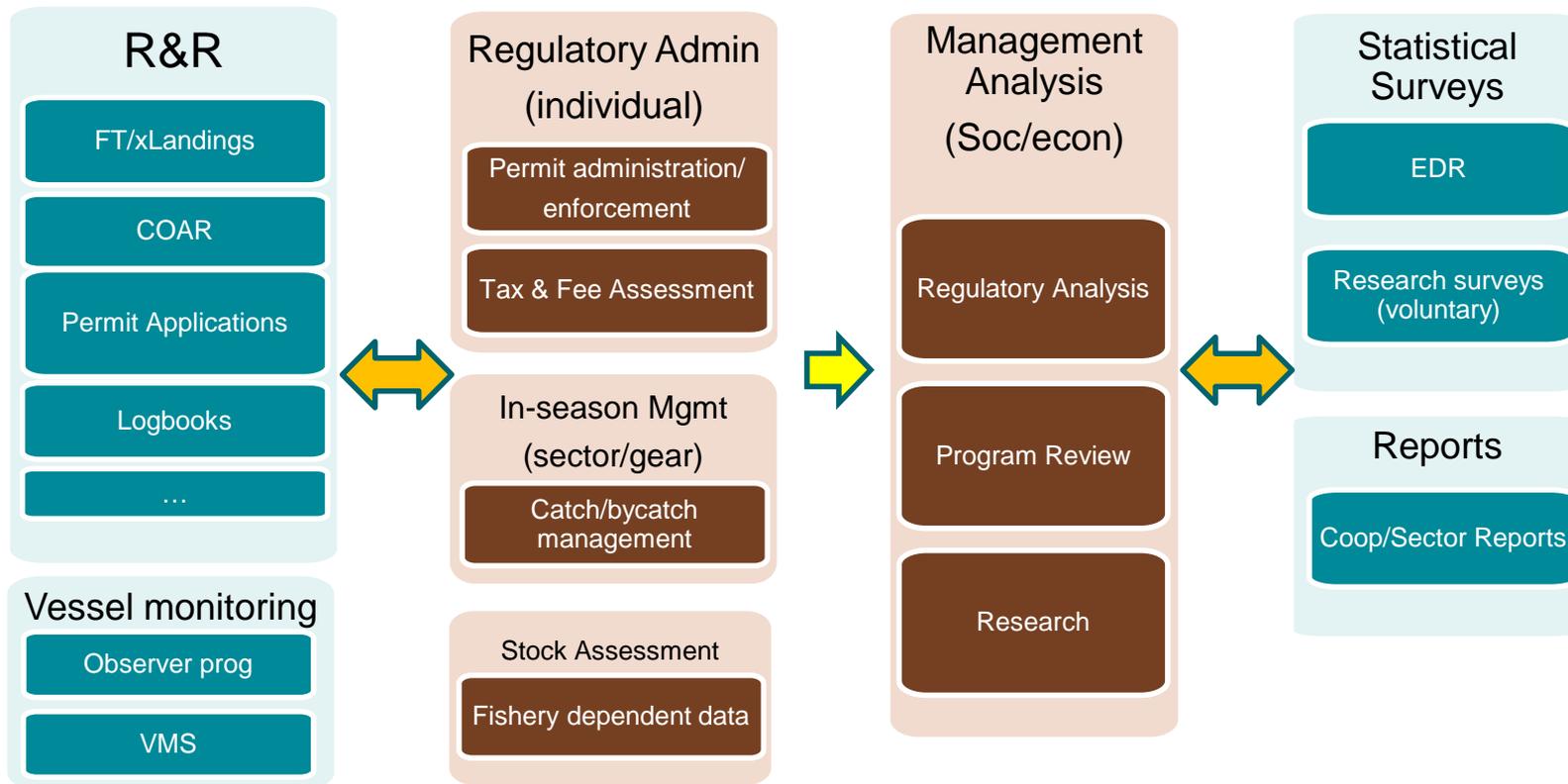
Brian Garber-Yonts
Steve Kasperski

North Pacific Fishery Management Council
Economic Data Report Stakeholder Workshop
August 26, 2020

Context: Why do we need economic data



Overview of Economic Data Sources



PURPOSE AND FUNCTIONS OF STATISTICAL DATA COLLECTION

PERFORMANCE METRICS

MONITOR

- Consistently measure and report performance metrics
- Capture variation within populations and over time
- Identify important trends

EXPLAIN

- Identify systematic change and drivers of variation
- Analyze effects of management measures
- Understand economic and social conditions of fisheries
- Model response to changes in resource and external factors

PREDICT

- Evaluate effects of management alternatives
- Forecast trends under current conditions
- Anticipate effects of changing conditions

Frequency

Complexity



PERFORMANCE METRICS

- Outputs and indicators
- Statistical information
- Partial/indirect

average annual operating profit, per vessel

average annual crew earnings, per person

total crew labor income, per fishery/fleet/year, by community

ESTIMATION

- Accuracy (unbiased, within range)
- Precision (size of measurable difference)

SURVEY DATA

- Measured values
- Target population
- Sampling/Census
- Measurement frequency

fuel cost

crew share payment (annual, vessel)

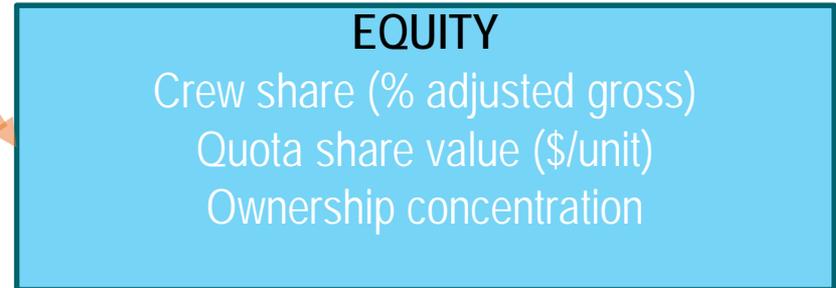
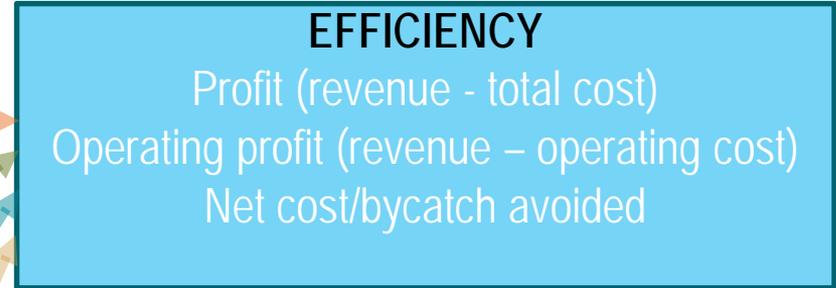
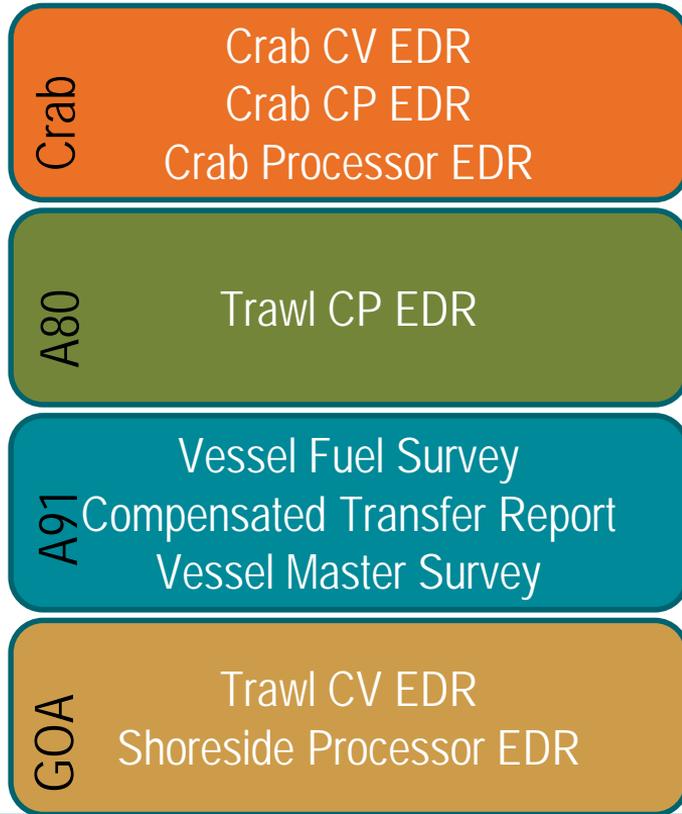
ex-vessel revenue (annual, vessel)

crew license numbers

ADMINISTRATIVE DATA

EDR Collections

Management effects & Performance metrics



EDR Utility – Applications and Limitations

Data Applications

Economic SAFE

- Groundfish (A80, A91, GOA Trawl chapters)
- Crab

Program Reviews

- A80 5-Year Review
- Crab 10-Year Review

Regulatory analyses

- Halibut Deck Sorting RIR (6/19)
- Catcher/Processor Mothership Restrictions SIA (3/19)
- GOA Trawl Bycatch Preliminary Analysis (12/16)

Limitations

Fragmentation

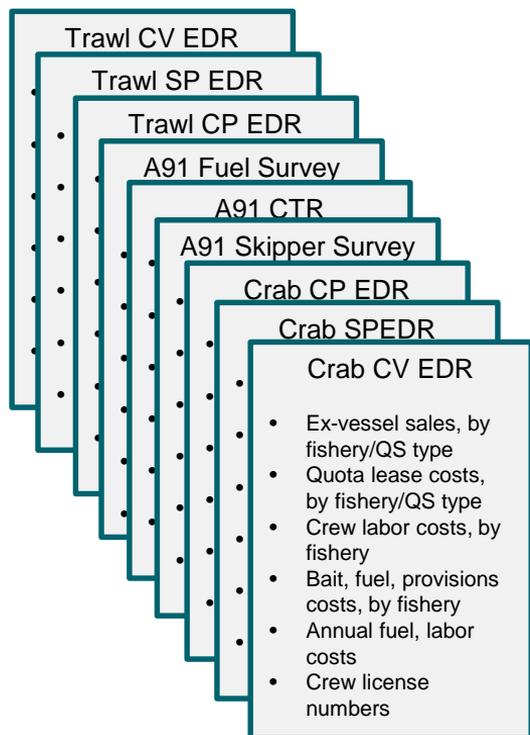
- Data coverage limited to subset of fleets/fisheries
- Variables collected do not align with broadly informative performance metrics for baseline economic monitoring and reporting

Inconsistency

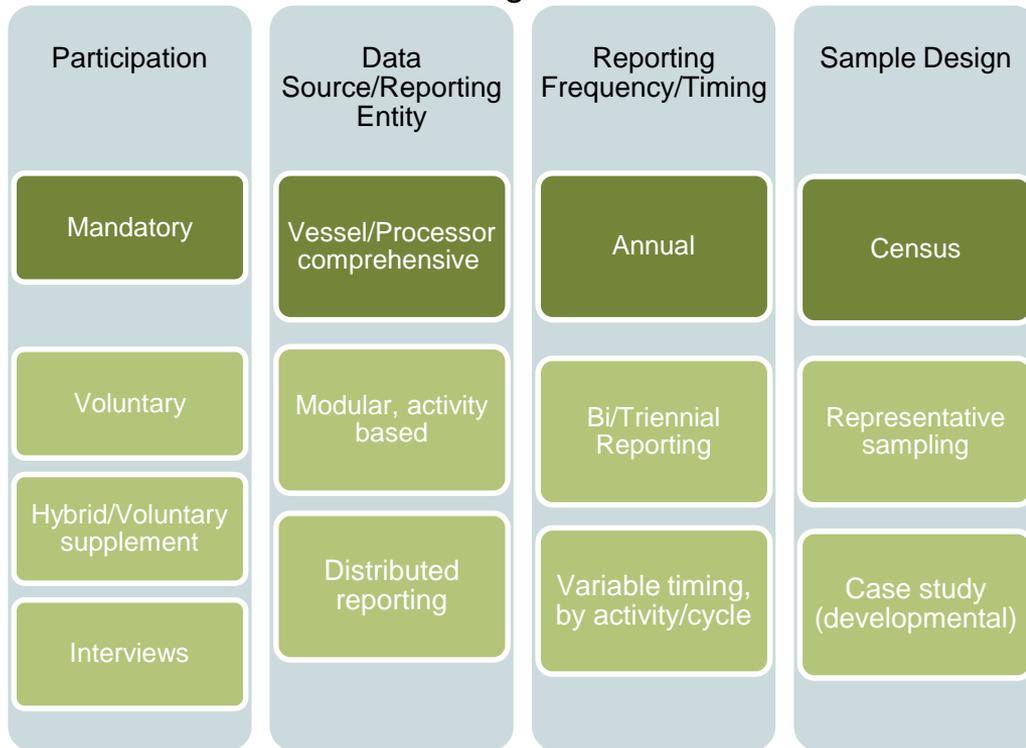
- Lack of consistent framework of performance metrics
- Variables not measured consistently

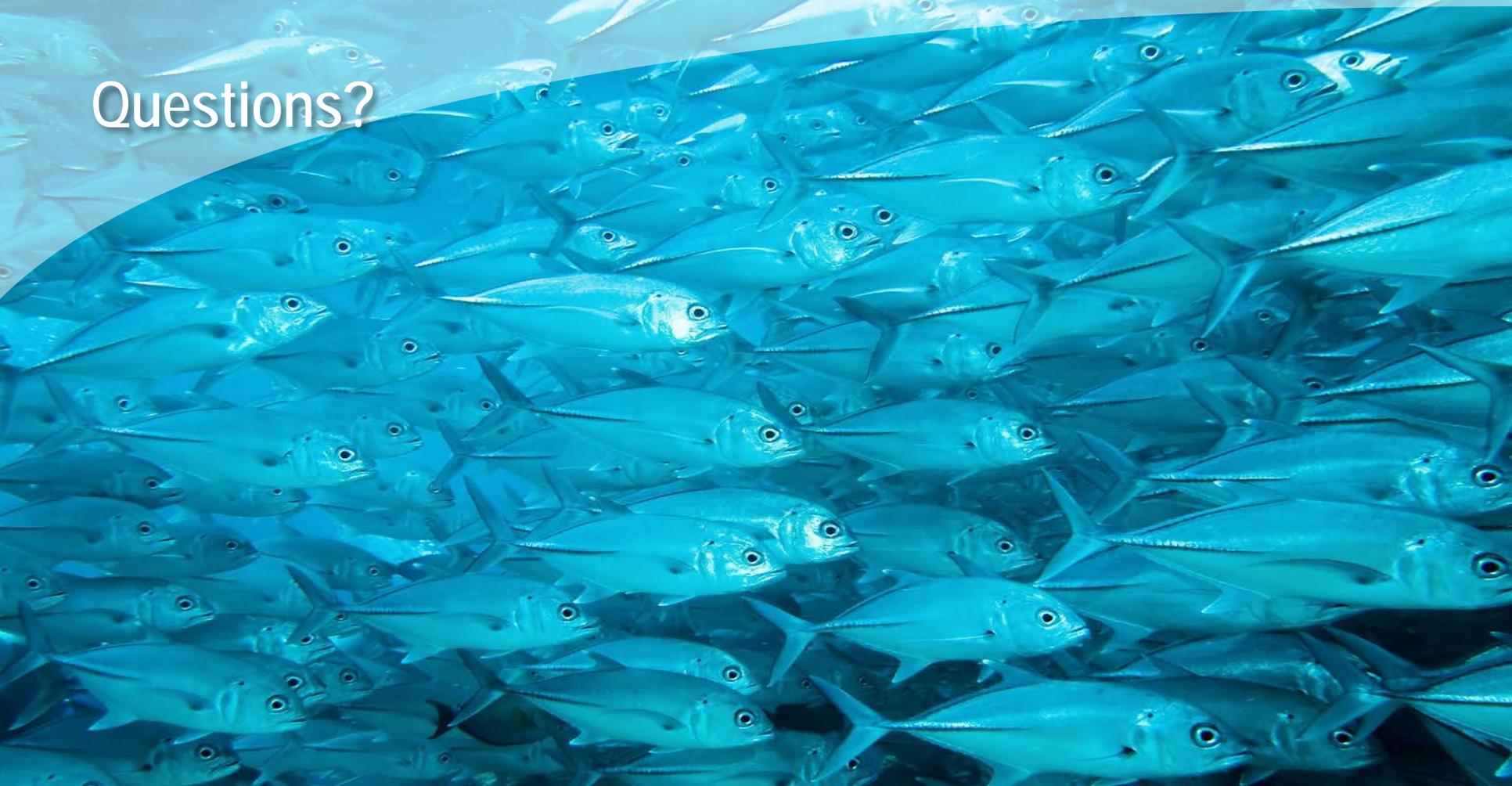
EDR Design Elements – Burden Factors

EDR Forms/Variable Specification



Other Design Elements





Questions?

