

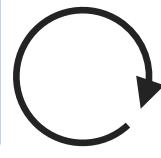
Define maximum # of fishery fleets that can be adequately modeled based on data availability



Explore composition data to understand processes governing contact selectivity and availability



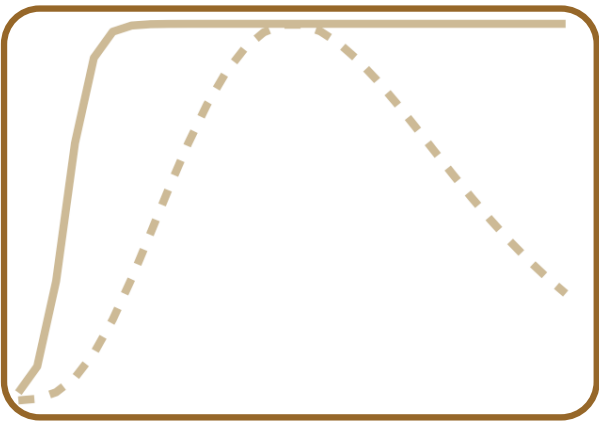
Formulate hypotheses on fleet-specific selectivity and potential changes in fleet structure



Engage stakeholders to elicit feedback on plausibility of proposed hypotheses



Fit multi-fleet model and use model selection and regression diagnostics to identify fleet-specific selectivity (e.g., AIC, residuals)



Fleets with **different** selectivity patterns



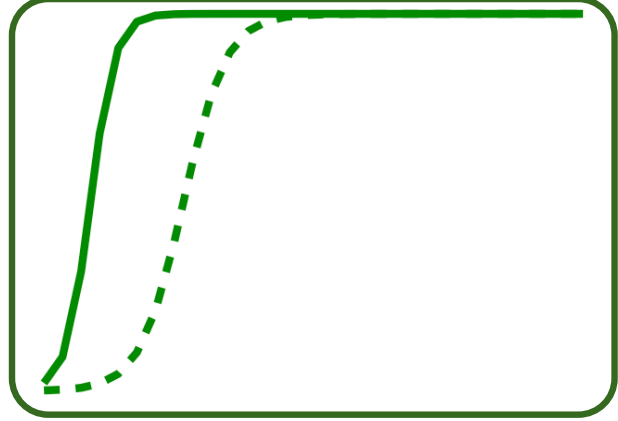
Slow change in fleet structure

Fast change in fleet structure



Retain multi-fleet structure or **flexible** time-varying selectivity approaches (e.g., semi-parametric; care is warranted)

Assume single-fleet and time block with selectivity pattern identified in multi-fleet model



Fleets with **similar** selectivity patterns



Slow change in fleet structure

Fast change in fleet structure



Retain multi-fleet structure or **continuous** time-varying selectivity approaches (e.g., semi-parametric **or** deviations on parameters; care is warranted)

Assume single-fleet and time block with selectivity pattern identified in multi-fleet model



Validate estimates with multi-fleet model and model diagnostics