

Define maximum # of fishery fleets



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



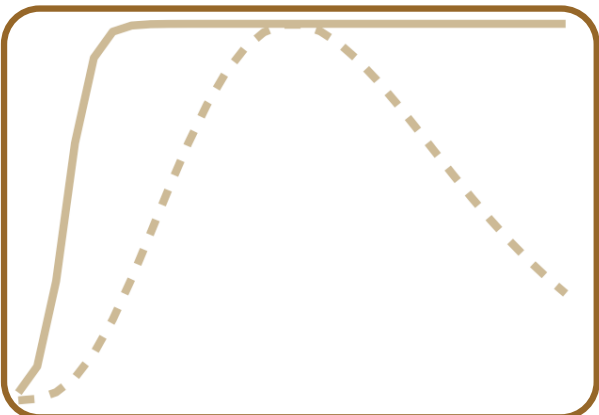
Explore composition data to understand processes governing contact selectivity and availability



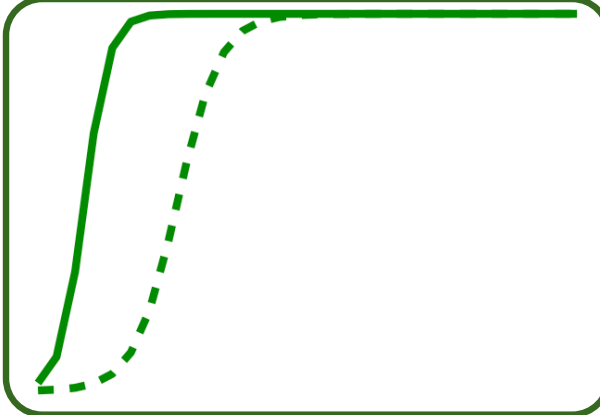
Engage stakeholders to elicit feedback on plausibility of proposed hypotheses



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



Fleets with ***similar*** selectivity patterns



Slow change in fleet structure

Fast change in fleet structure



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)

Time block with selectivity pattern identified in multi-fleet model

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

Time block with selectivity pattern identified in multi-fleet model



Validate estimates with multi-fleet model and model diagnostics