

# Management strategy

Estimation & Model uncertainties

Data & Observation uncertainties

Catch Control Law

Stock assessment,  
Model development  
Parameter update

Data  
Catch, CAA,  
CPUE etc

Implementation uncertainty

Parameter uncertainty

Catch

Fishery dependent  
And independent information

Process uncertainty

## Whole ecosystem dynamics

Population dynamics (mortality, growth, reproduction)  
Environmental factors  
Food web, genetic stock structure

