



# DATA TO DECISION



How fisheries science informs and contributes to sustainable fisheries management

## 1 DATA COLLECTION



Data can be fishery dependent (e.g. from industry fishing activities), or fishery independent (e.g., from targeted surveys).



**Output :** Indicators of abundance, biological information, catch from multiple sources (commercial, recreational, Food, Social and Ceremonial)

## 2 STOCK ASSESSMENT



Data are analyzed using statistical methods and mathematical models to learn more about the fish stock.



**Output :** Estimates of reference points, stock status, evaluation of harvest decision rules

## 3 SCIENCE ADVICE



Science advice is peer-reviewed through DFO's Canadian Science Advisory Secretariat.



**Output :** Science advice documents, projections of potential future stock status under different catch levels

## 4 MANAGEMENT



Science advice is considered along with other sources of information in fisheries management decisions.



**Output :** Management measures such as harvest levels, Integrated Fisheries Management Plans, and Rebuilding Plans