

# **WGBIOPTIM**

Working Group on Optimization of Biological Sampling

## **OUR OBJECTIVE**

WGBIOPTIM provides R-tools to allow institutes involved in fishery data collection to evaluate strategies for the optimization of their biological sampling programmes.

The working group's main target is the development of methods to identify how to optimize the current sampling for biological parameters without compromising the quality of the final estimates of stock assessment.

# **OUR EXPERTISE**

Sampling designs

Data Science and Technology Steering Group (DSTSG)

### **RESEARCH FOCUS**

- Exploring and testing alternative, effortoptimized sampling strategies, evaluating their impact on biological estimators through appropriate quality indicators.
- Identifying optimal sampling design, to fix oversampling situations or avoiding inefficient sampling effort.
- R-package development, which can be applied to define an optimal number of samples (e.g. number of trips, number of length measurements, maturity, age and sex) and to estimate relevant indicators (e.g. CV,

- Statistical and mathematical knowledge
- R-programming
- Optimization of sampling data collection (commercial fisheries and survey data)

#### **OUR CHAIRS**





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Scan and learn more about our work