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The previous MEDAC advice on MSE process

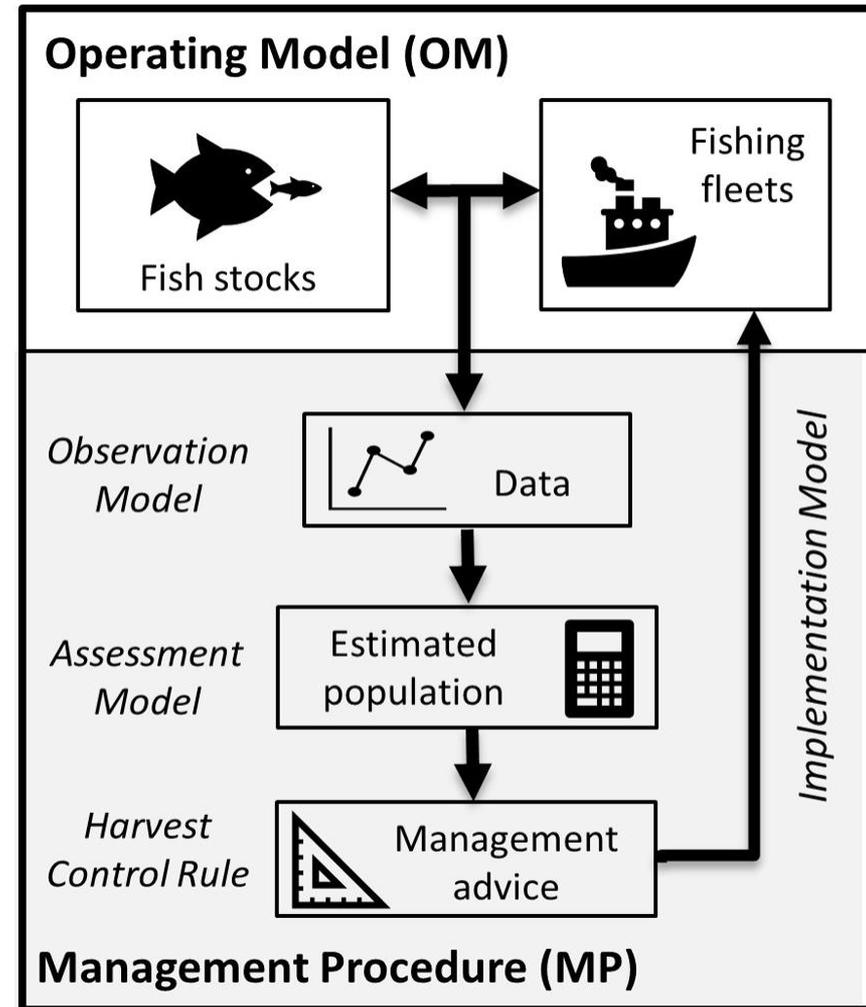


Management Strategy Evaluation What is that?



MSE

- A simulation approach that formalizes the introduction of uncertainty into the decision-making process
- The objective is to identify the management strategies that are robust to uncertainty before they are put in place



Differences with Stock Assessment (SA)

SA

- Uses one model that is somehow proven to be the best available one, based on the best available knowledge and data.
- Not good to address uncertainty

MSE

- Uses one or multiple operating models
- Could be similar to the ones used in SA
- Addresses uncertainty:
 - a. process uncertainty,
 - b. estimation uncertainty,
 - c. model uncertainty,
 - d. observation uncertainty,
 - e. implementation uncertainty

The MSE process on Eastern Bluefin tuna

PRO	CONS
Consultation of stakeholders in the MSE process	Meeting didn't cover all the languages of the interested stakeholders
2 Rounds of the ICCAT meeting (ambassadors)	Short notice of meeting scheduling
Open to all the relevant stakeholders	Scientific information too complicated to be understood by participants
Online	Joint advice in the ACs need enough time to be drafted and approved after the provision of the scientific information
	More details should be provided on the socioeconomic information included in MSE
	More details should be provided on the environmental factors included in MSE

Working Group on Management Strategy
Evaluation (WGMSE) on Adriatic small
pelagics.

Session 1: preparatory meeting to decide
methods (TBC)

29 May 2023



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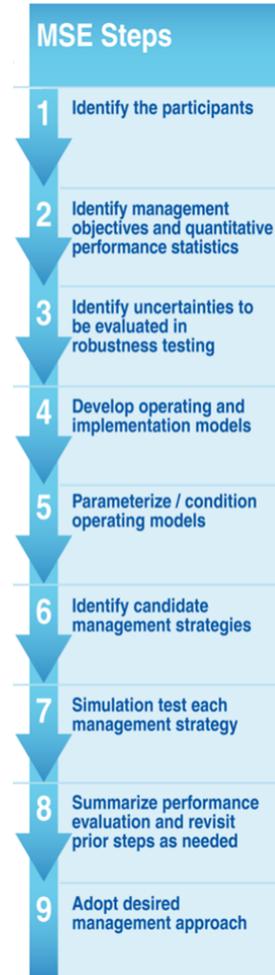
**Thank you
For your attention**

For further info
segreteria@med-ac.eu



MSE - Steps

-  Identification of management objectives
-  Identification of statistical indicators of performance
-  Hypotheses for operating models (OMs)
-  Conditioning of the OMs using data and knowledge
-  Weighting of hypotheses depending plausibility
-  Identifying candidate management procedures (MPs) / harvest strategies (HS)
-  Projecting the OMs forward in time using the MPs as a feedback controller: impact of management
-  Identifying the elements of MPs that best meet management objectives



(Goethel et al. 2019)