



# Project Meeting MARE 2014/27 with MEDAC

Malta, November 10, 2015

**Study on the evaluation of specific management scenarios for the preparation of multi-annual management plans in the Mediterranean and the Black Sea**

EASME/EMFF/2014/1.3.2.7/SI2.703193 Call MARE/2014/27 -

**Criteria, trajectories and MSY approach for the preparation of multiannual management plans in the Mediterranean and Black Sea**

*Maria Teresa Spedicato*

**COISPA, Italy**

## Common Fishery Policy aims

- ☀ achieve maximum sustainable yields (MSY) for all stocks at the latest by 2020
- ☀ multiannual approach to fisheries management, establishing as a priority multiannual plans reflecting the specificities of different fisheries.

**OPEN CALL FOR TENDERS MARE/2014/27**



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7 partners and 2  
external experts





The ultimate objective of the study is:

- the assessment of specific management scenarios in order to establish the relevant multiannual plans in accordance with the CFP objectives and with the guidelines adopted by the GFCM.

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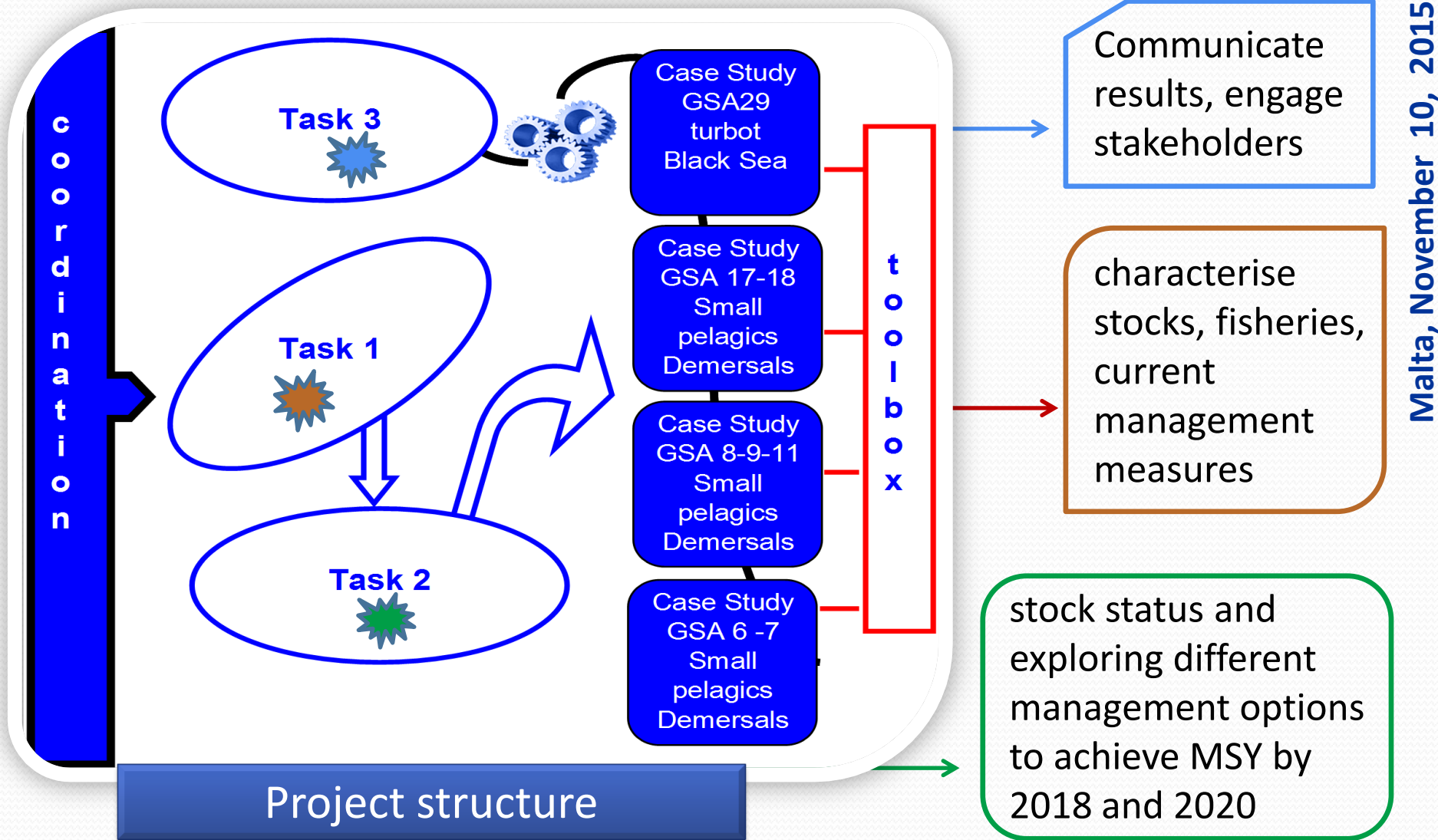
Project components,  
tools, organization

<b>4 Case studies</b>	<b>3 tasks</b>
<b>technical workshop</b>	<b>communication meeting with stakeholders</b>

 <b>support tools</b> 	
<b>toolbox of methods (models, routines)</b>	<b>Sharepoint (project platform)</b>

**Project duration: 7 months**

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## MAIN STEPS FOR SETTING CASE STUDY SCENARIOS

Define fleet strata, associated metier and relevant catches by species

**Review current exploitation status of relevant stocks for the case studies**

Evaluate the relative impact of the defined fleet strata on the relevant stocks

**Take into account the nature of mixed fisheries in the case study areas**

Specify the criteria that could be used to select the most suitable approach to attain the MSY objectives and define trajectories

**Agree on the indicators to be selected for the evaluation**



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## CRITERIA

Definition	Description
Reference point	$F_{MSY}$ or related proxies as $F_{0.1}$
Timeframes to reach $F_{MSY}$ or related proxies	2018 and 2020
Species and fleets	Species for which stock assessments are available and fleets according to fishing technique and LOA (fleet strata), only marginal fleets (e.g. 1% in terms of landings/effort of the area) are not considered
Strategy to reach the RP in the timeframe	<ol style="list-style-type: none"> <li>1) gradual linear reduction</li> <li>2) adaptive strategy which implies for example a lower reduction in the short term and a sharp reduction thereafter, case by case.</li> </ol>

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## CRITERIA

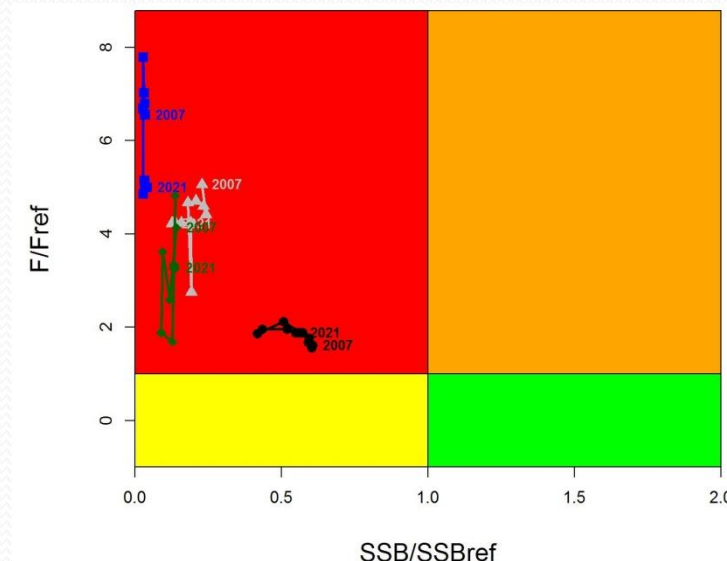
Definition	Description
<b>Mixed fisheries</b>	Taking into account the nature of mixed fisheries in the case study areas and thus, besides the consideration of the most impacted species in the pool of one fishery or another, it is also important to take into account the mix.



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## CRITERIA

Definition	Description
<b>Amount of reduction</b>	Defined on the basis of the results from the assessments and diagnosis, except in case of delay of the size at first capture scenarios.
<b>Flexibility</b>	Adapt the approach to the specific characteristics of the areas and fisheries (evaluating which are the main gears/fleet strata and their relative impact) case by case.



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# TRAJECTORIES AND MSY APPROACH

Definition	Description
<p><b>MSY approach</b></p>	<p><math>F_{MSY}</math> range approach is proposed (upper and lower ranges; i.e. Fupper and Flower) to account for mixed fishery considerations.</p> <p>Fupper could be used associated with a <b>Management Strategy Evaluation (MSE)</b> to test if the upper level of the range is precautionary (i.e. the risk of the SSB falling below Blim is less than 5%).</p> <p>Testing a composite <math>F_{MSY}</math> derived from the mix of the assessed species weighted by landing.</p>

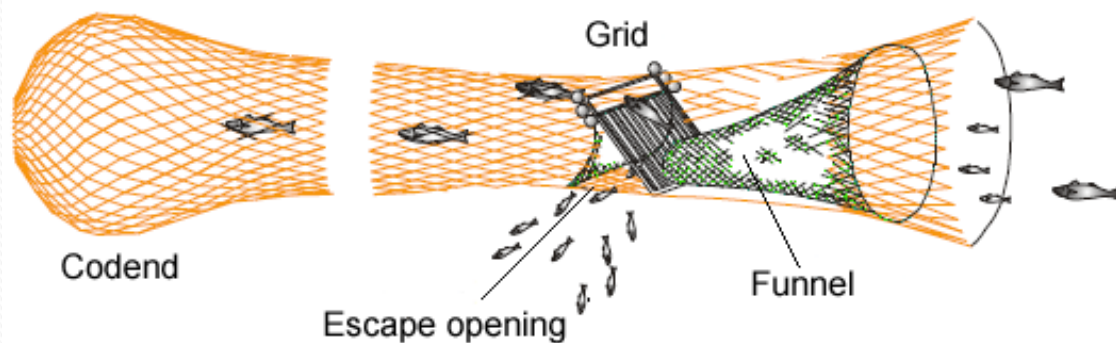
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# TRAJECTORIES AND MSY APPROACH

Definition	Description
<p><b>Translate reduction of fishing mortality into effort reduction</b></p>	<p>The reduction of fishing mortality (F) towards the RP applied for the timeframe of 2018 to both activity and capacity, the latter by 2017, as after there will be no more possibilities of scraping using public funding.</p> <p>Reduction of fishing mortality (F) towards the RP applied for the timeframe of 2020 only on activity from 2017 to 2020.</p> <p>Scenarios of reduction of activity or capacity designed taking into account considerations of social/management components based on existing management decisions and existing feedback from the sector.</p>

## TRAJECTORIES AND MSY APPROACH

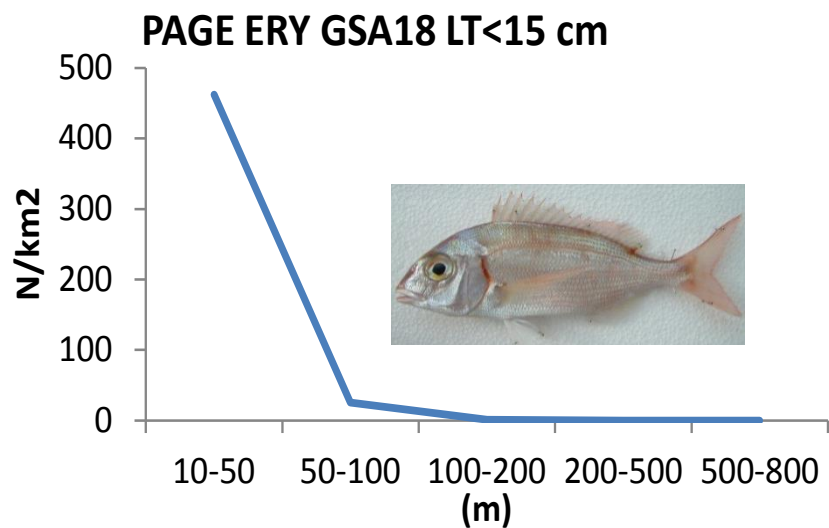
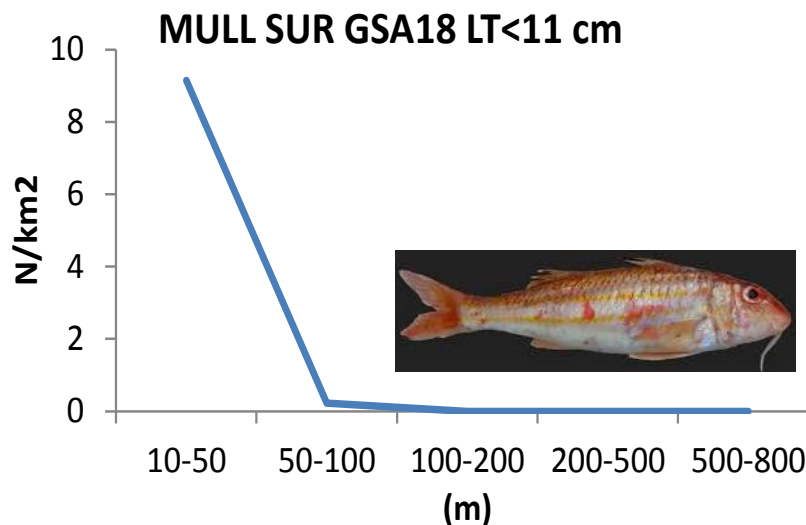
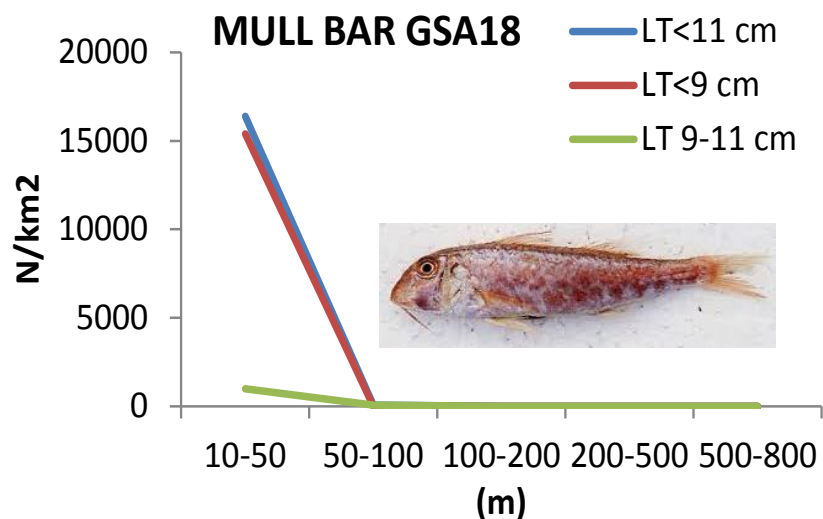
Definition	Description
<p>Translate reduction of fishing mortality into harvest pattern change</p>	<p><math>F_{MSY}</math> ranges are calculated based on current fishery selectivity, with the possibility of higher yields if selectivity is altered through changes in gear design, fishing area, or season, delaying the current size at first capture.</p>



Grid used to reduce the catch of small fish and shrimps (Sacchi, 2008)

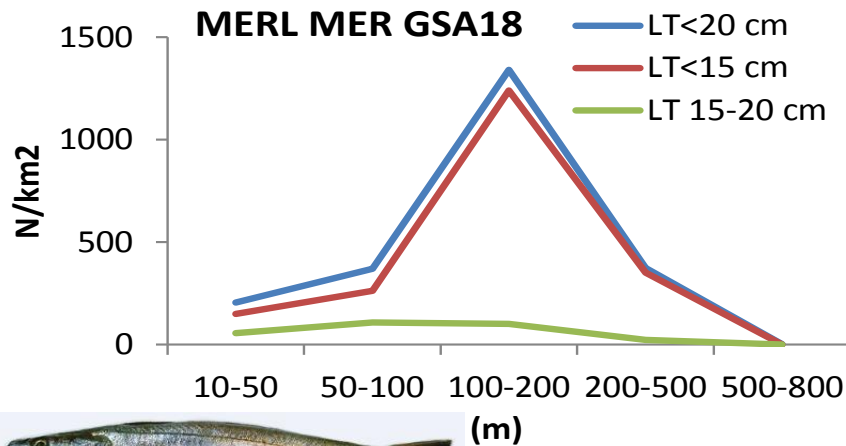


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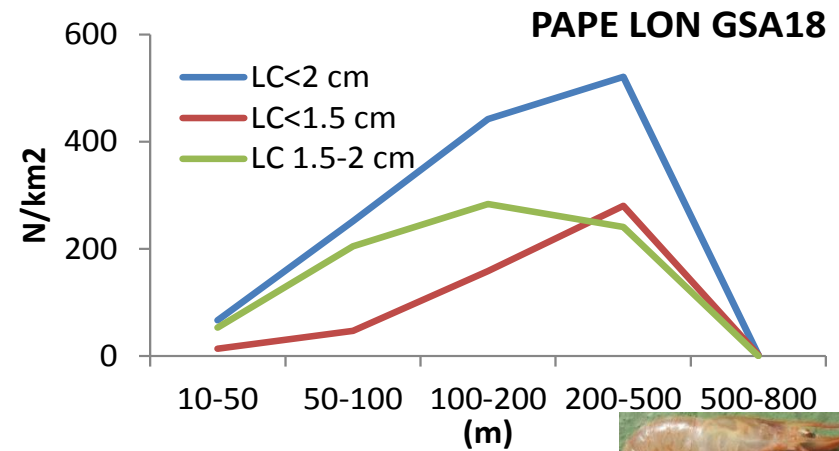


Depth distribution of demersal species from the MEDITS survey (average of last 5 years). The fraction of the population below the MLS is shown (blue line)

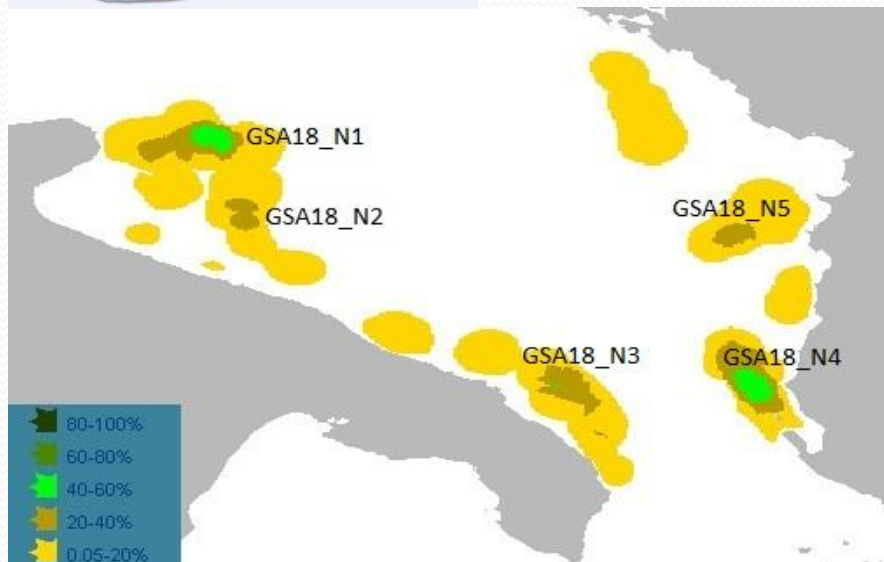
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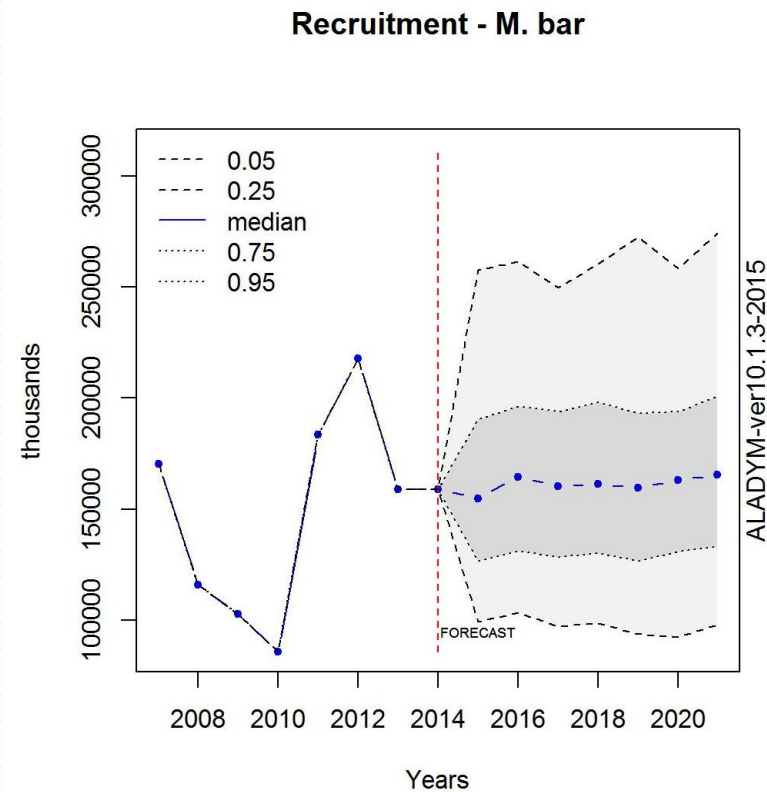


Persistent nursery of  
European hake in GSA 18  
(MEDISEH Project, MAREA  
Framework)

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## TRAJECTORIES AND MSY APPROACH

Definition	Description
<b>Uncertainty</b>	Applying error estimates on recruitment for the forecasts.
	Applying Management Strategy Evaluation (MSE), where possible, on the basis of the available information.



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**THANK YOU FOR YOUR ATTENTION**