

ICES advice for North Western Waters stocks for 2024

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ADVICE INTRODUCTION

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Image Dirk Vonten, Fotolia

North Western Waters stocks



West of Scotland & Rockall (6.ab)

- Cod (6.a; 6.b)
- Haddock (4,6.a,sub 20; 6.b)
- Whiting (6.a; 6.b)
- Anglerfish (3.a,4,6)
- Megrin (4.a-6.a; 6.b)
- Saithe 3.a 4, 6
- *Nephrops* (FUs11-12-13)

Deep-sea stocks

Irish Sea (7.a)

- Cod
- Haddock
- Whiting
- Plaice
- Sole
- *Nephrops* (FUs 14-15-19)

Celtic Sea & West, Southwest Ireland

- Cod (7.e-k)
- Haddock (7.b-k)
- Plaice (CS; 7.h-k; 7.bc)
- Sole (CS; 7.b-c;7.h-k; 7.bc)
- Northern hake
- Anglerfish (7.b-k, 8.abd)
- Megrin (7.b-k, 8.abd)
- Pollack (6,7)
- *Nephrops* (FUs 16-17-20-22)

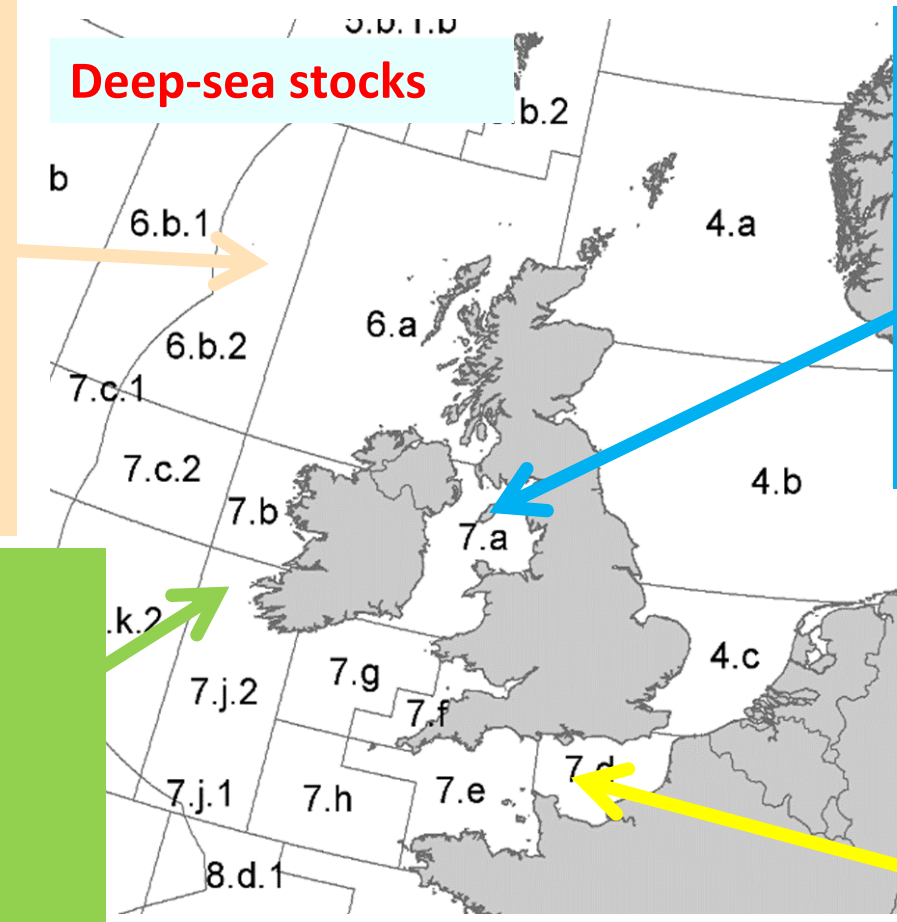
Channel

- Cod (4, 7.d, Skagerrak)
- Plaice (7.d; 7.e)
- Sole (7.d; 7.e)
- Whiting (4,7d)
- Brill (3.a, 4, 7.de)
- Lemon sole (3.a, 4, 7.d)
- Sea bass (4bc,7ad-h)
- Striped red mullet (3.a, 4, 7.d)

Rays and skates

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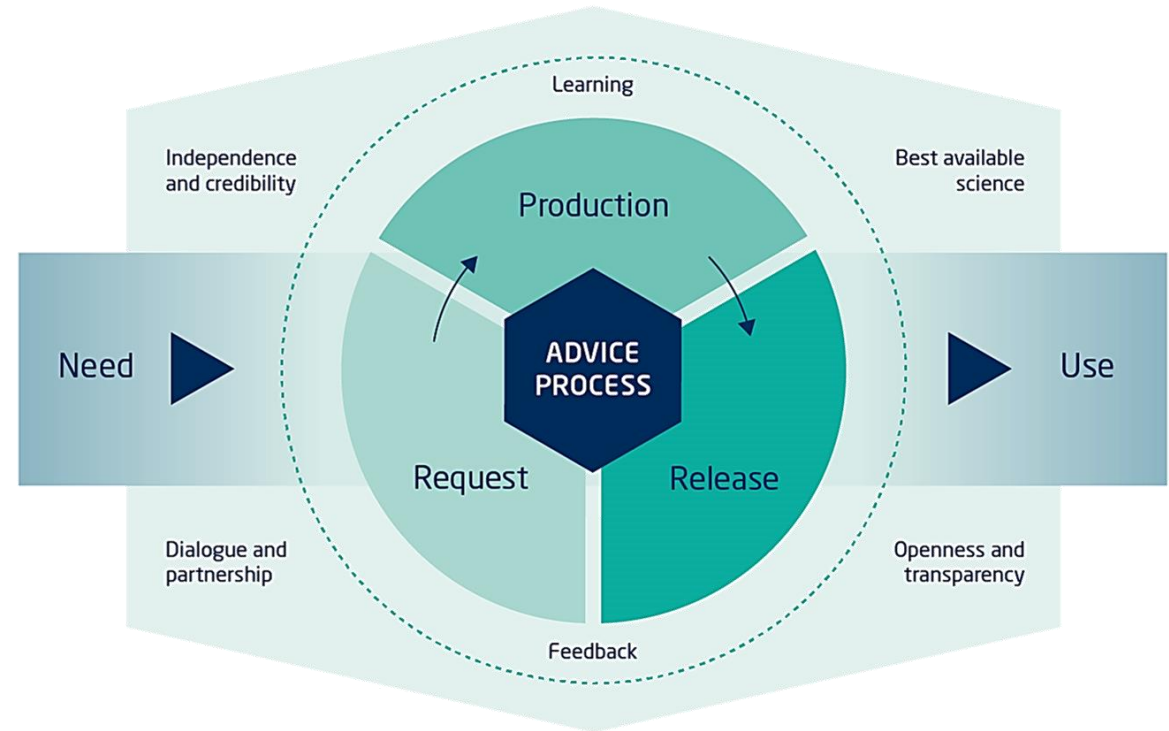
Nephrops (all areas) cod 6.a; 4,7.d; cod 7.a
Elasmobranchs Megrin 6.b



Governed by 10 principles of advice

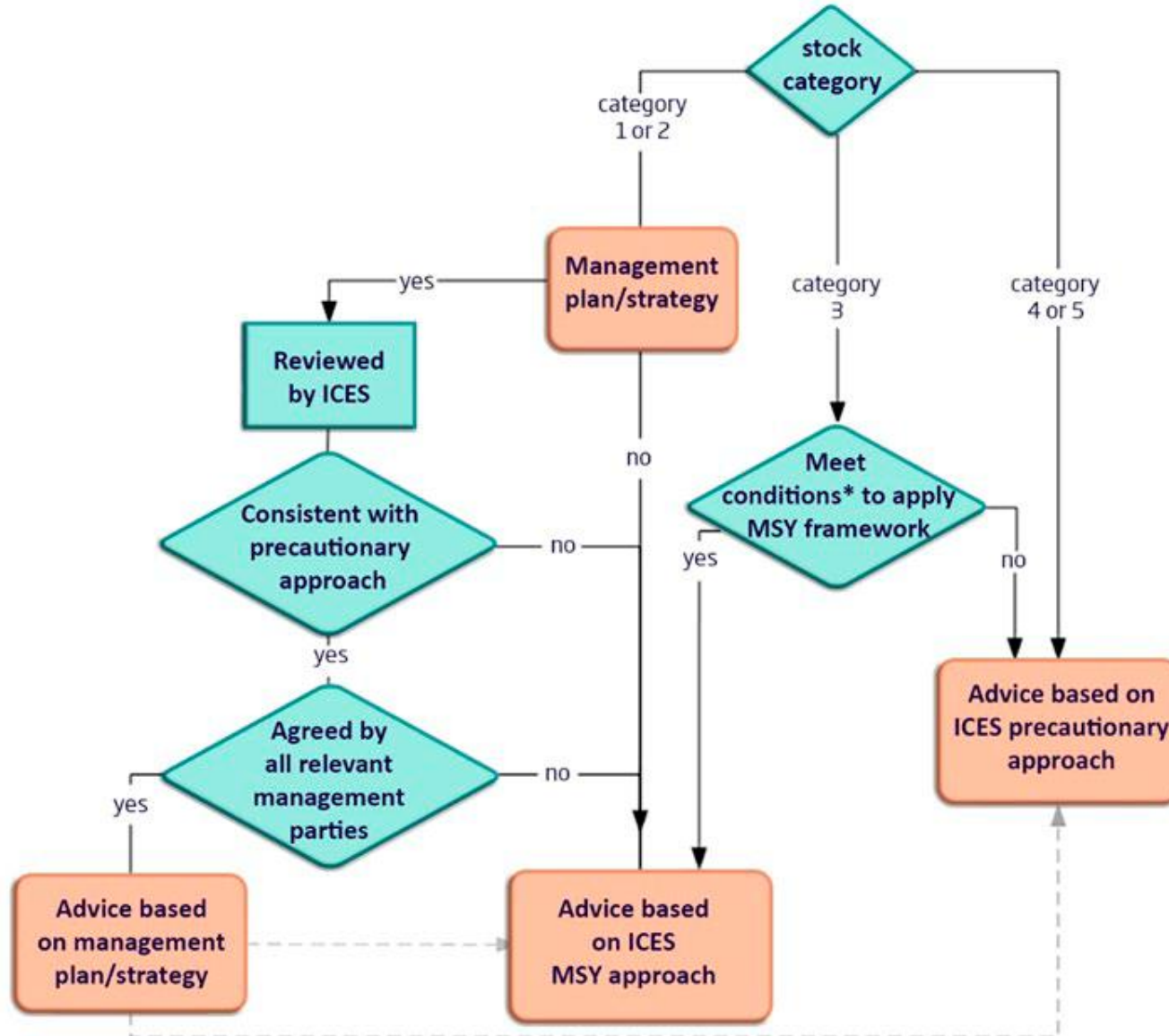


Advice Process



No other fisheries body has
these specifically stated

Basis of advice



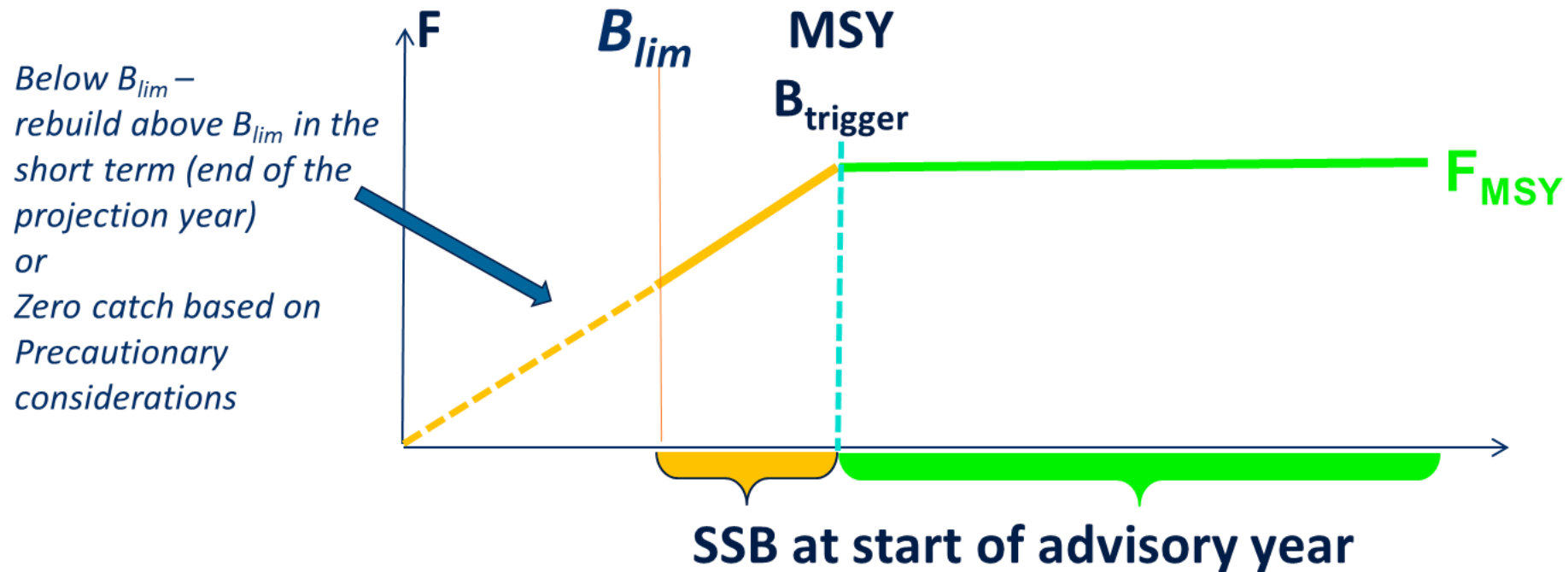
- Advice is based on clients requests and is consistent with their policy objectives and frameworks. e.g. EU MAP
- Must be evaluated to be precautionary
- Type of assessment based on data available

Types of assessment methods



- DLS – empirical – apply advice rule (e.g. CHR, rfb) to an index
 - Production model – total catch, index(ices), observation and process error, results relative e.g. B/BMSY
 - Age structured – XSA, SAM, Stock synthesis, SCAA
 - XSA – CAA and SAA, CAA taken as known, error only in SAA
- Very strong assumptions, only observation error, no probabilities
- SAM, SS (very flexible), SCAA
- Total catch in weight, CAA, SAA, SR, observation and process error, selectivity can vary over time

ICES MSY approach for category 1 & 2 stocks



For more details, see 'Advice on fishing opportunities 2023'

EU MAPs and F ranges

- The F ranges in the MAPs are consistent with the ranges provided by ICES in 2015 ($F_{MSYlower}$ and $F_{MSYupper}$).
- F ranges evaluated to result in no more than 5% reduction in long-term yield compared with MSY.
- The ranges are considered precautionary:
<5% probability that the stock size will fall below Blim.

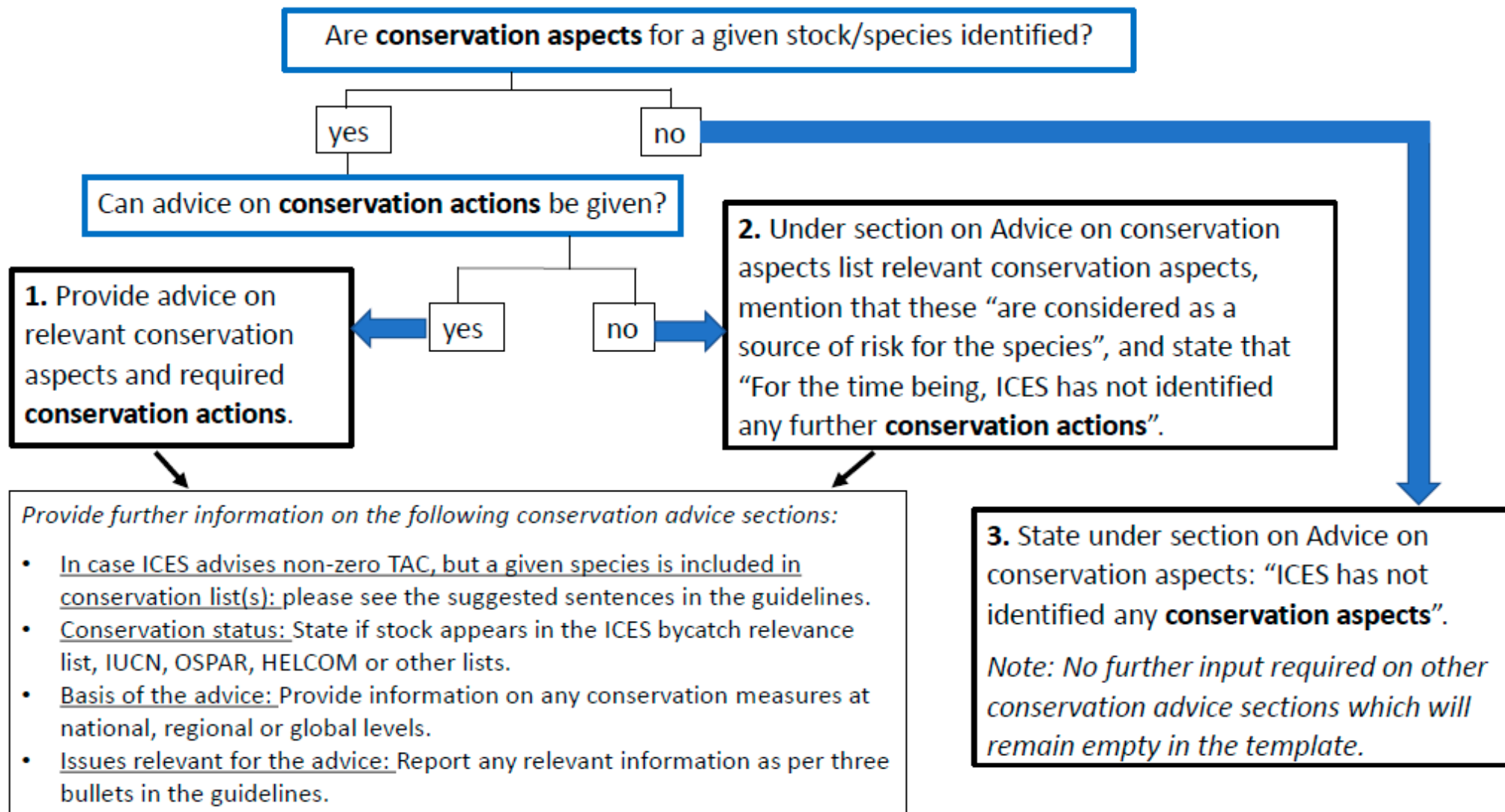


Conservation status advice



- Some stocks for which ICES provides fishing opportunities advice are more affected by other anthropogenic pressures than by fishing. In these cases, ICES will now include 'conservation status advice' in the respective fishing opportunities advice sheet.

Conservation status advice



Workshops



- Survivability roadmap – include discard survival
 - Plaice 7d; 7e; 7fg
 - Sole 7d
- WKREBUILD2 – develop framework and evaluation guidelines for rebuilding plans
- WKNEWREF – hands on – estimate reference points suggested by WKREF2 and identify strengths and weaknesses
- WKSTIMP – implementation of stakeholder engagement strategy (will have already met and reported)
- WKAFPA -workshop on accounting for fishers and other stakeholders' perceptions of the dynamics of fish stocks in ICES advice (WKAFPA).

Where to find the advice

- <https://ices-library.figshare.com/>
- [AdviceXplorer](#)
 - <https://ices-taf.shinyapps.io/online-single-stock-advice/>



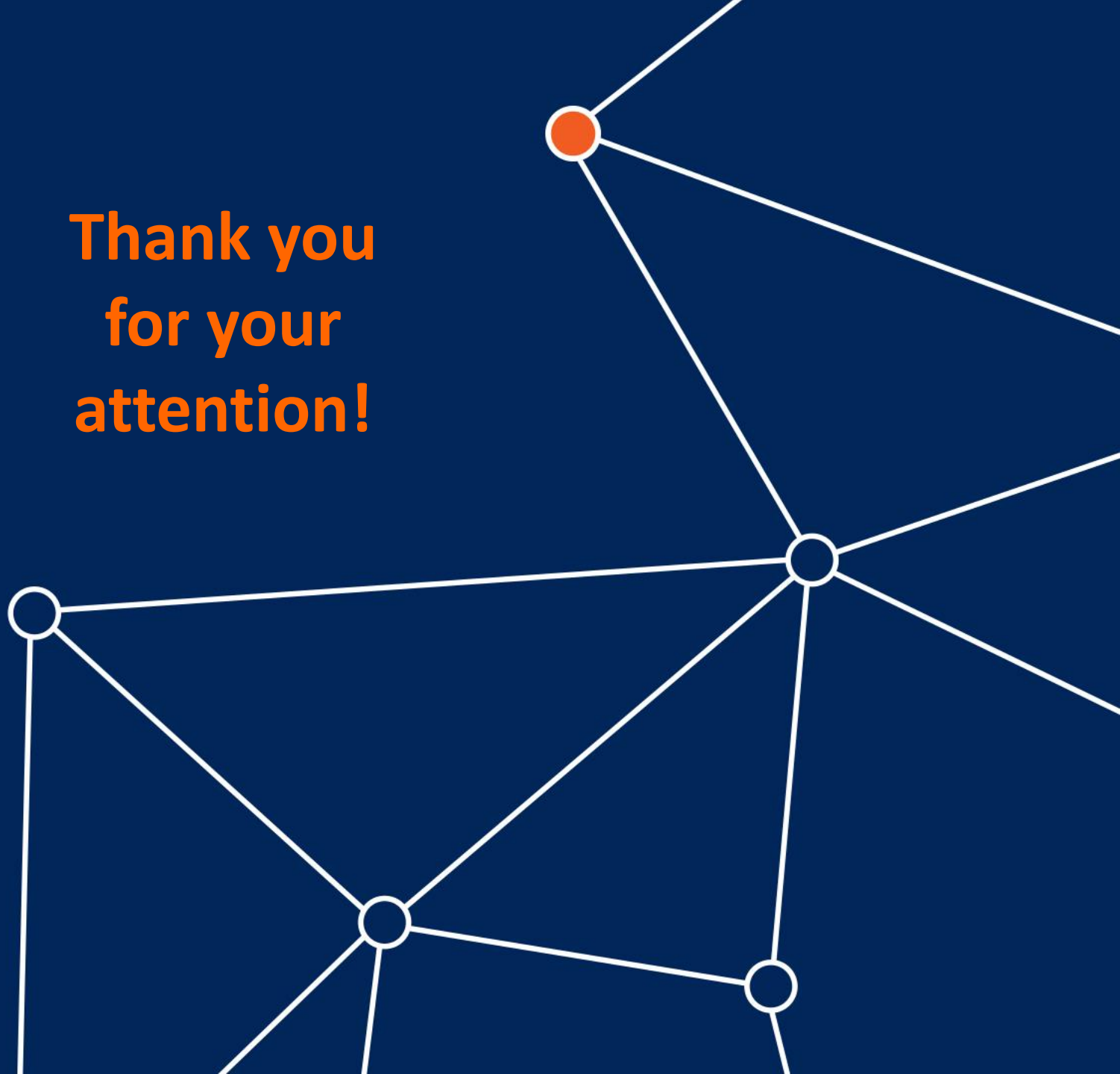
**Thank you
for your
attention!**



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Guidelines and methods for the design and evaluation of rebuilding plans for category 1-2 stocks – WKREBUILD2

- a) Define a framework for scientific advice for developing rebuilding plan elements as part of overall management strategies, that could be widely applied to ICES stocks.
- b) Develop guidelines for the evaluation of rebuilding plan elements that consider the precautionary approach, the species life history (incl. longevity), changes in productivity and rebuilding potential.
- c) Propose the performance indicators and thresholds to be used for the acceptability of rebuilding plan elements including rebuilding target, probability of rebuilding and rebuilding time relative to rebuilding time in the absence of fishing.
- d) Test the rebuilding plan evaluation guidelines on a limited number of test cases using a newly developed and dedicated evaluation tool
- e) Identify any additional requirements for a evaluation tool that would allow the evaluation of rebuilding plans elements proposed in ToR (a) in the context of assessment working groups.

Calculation and evaluation of new reference points for category 1-2 stocks - WKNEWREF

Following recommendations of WKREF2, for each stock estimate and report the problems detected in the estimation of:

- a) Alternative stock-recruitment relationships.
- b) B_0 , F_{msy} , B_{msy} and $B_{\%SPR}$.
- c) B_{lim} , alternatively looking at the distribution of B_{msy} or $B_{\%SPR}$ considering variability and risk to Bloss and report on the problems encountered for their calculation.
- d) $B_{trigger}$
- e) Alternative values for F_{target} ($F_{\%SPR}$, $F_{0.1}$, ...)

Based on the results from a) to e):

- f) Identify the situations where a stock recruitment relationship, the breakpoint in the segmented regression stock recruitment relationship, B_0 and B_{msy} can be estimated reliably and those where it cannot.
- g) Identify the strengths and weakness of the new reference points in comparison with the current framework.
- h) Propose B_{lim} , $B_{trigger}$ and F_{target} for each stock based on the proposal of WKREF2 or new proposal.