



# Atlantic and North Sea Fishing Opportunities 2019: TAC Proposal methodology



# Overview

- *Why am I here?*
- *Terminology*
- *TAC Setting Previous Years: "Top-ups"*
- *TAC Proposals FO 2019*

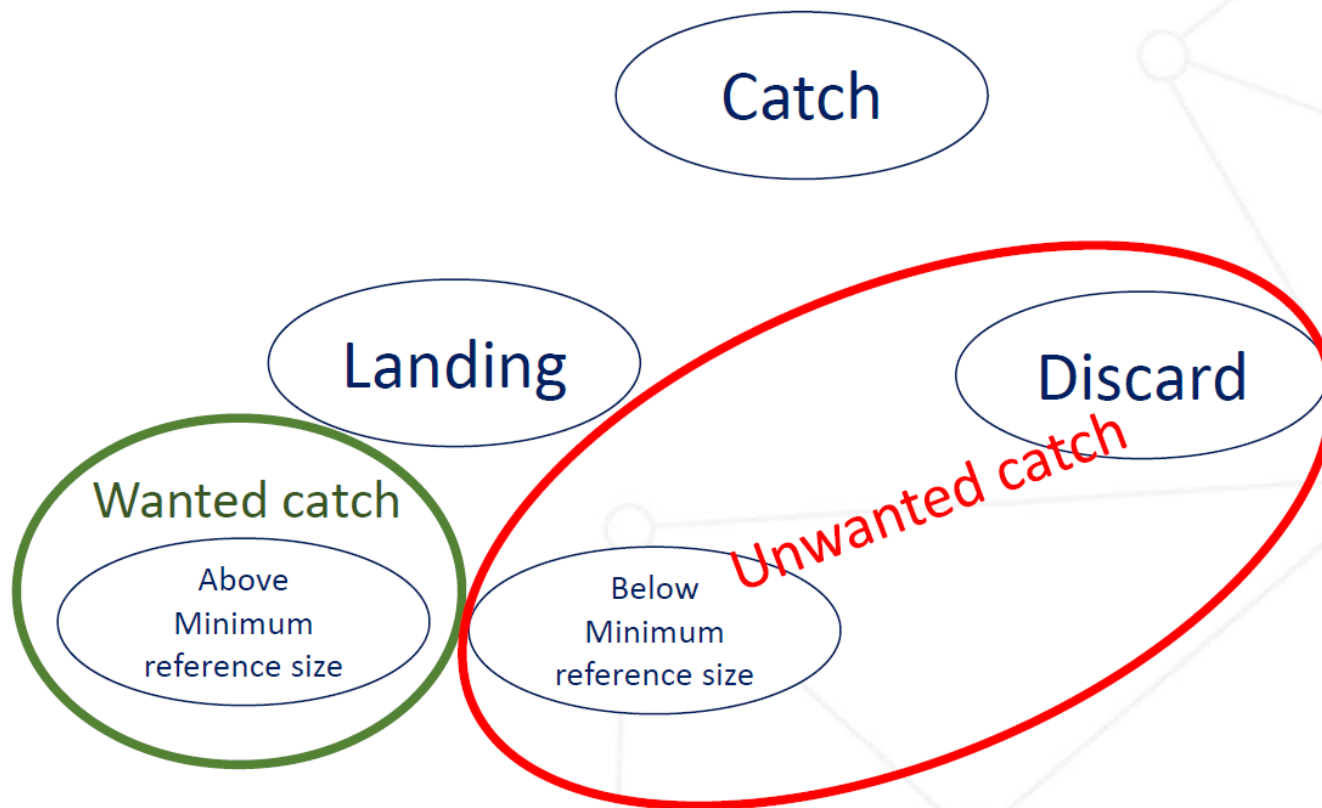
# Why am I here?

- 2019: Full Landing obligation (LO)
- Commission will no longer propose ICES advice MSY approach "wanted catch" to then discuss "top ups" in November via "non-papers" – **intention is to present full TAC with the proposal.**

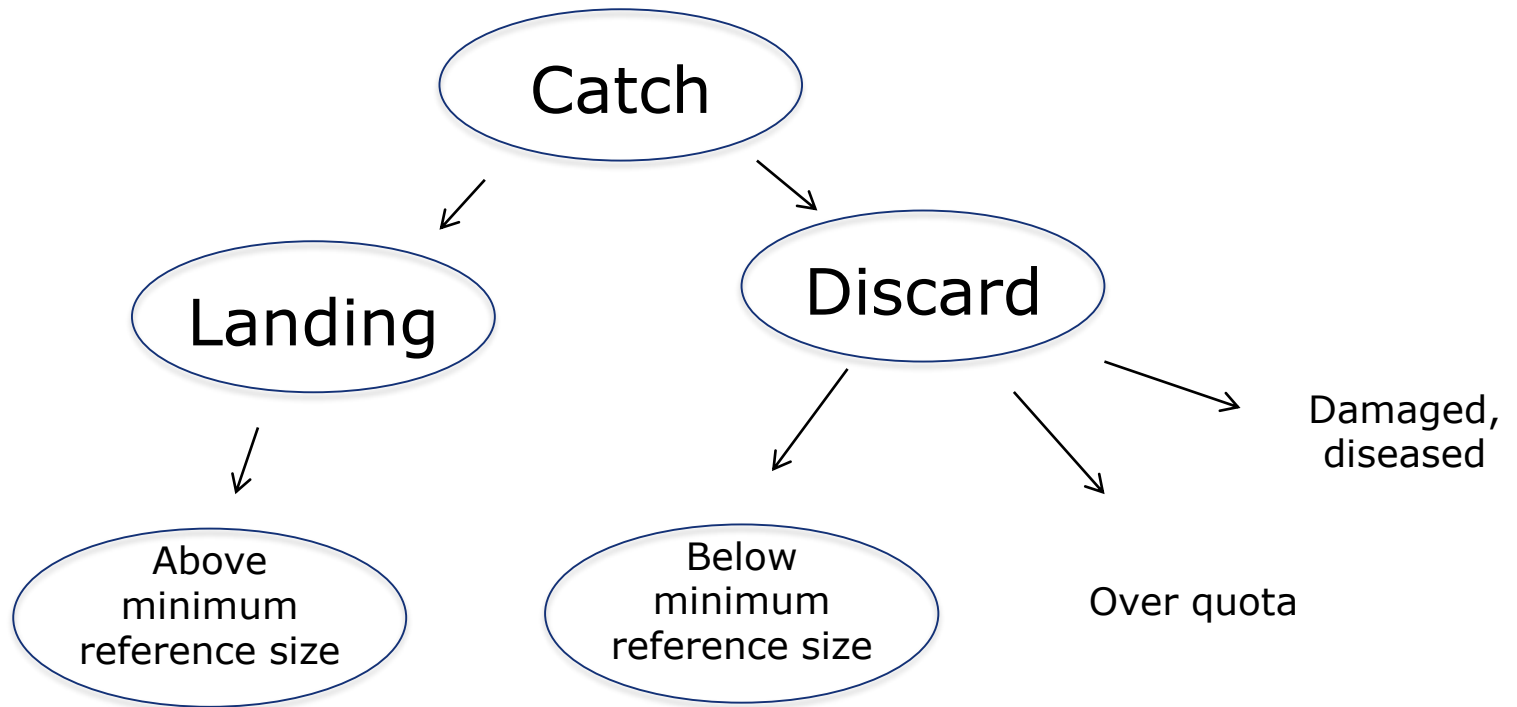
## Terminology

- Has changed due to the Landing obligation, as now everything has to be landed!
- "Wanted Catch" = Previously called "Landings"
- "Unwanted catch" = Previously "Discards"
- So now "Unwanted catch" should also be landed!

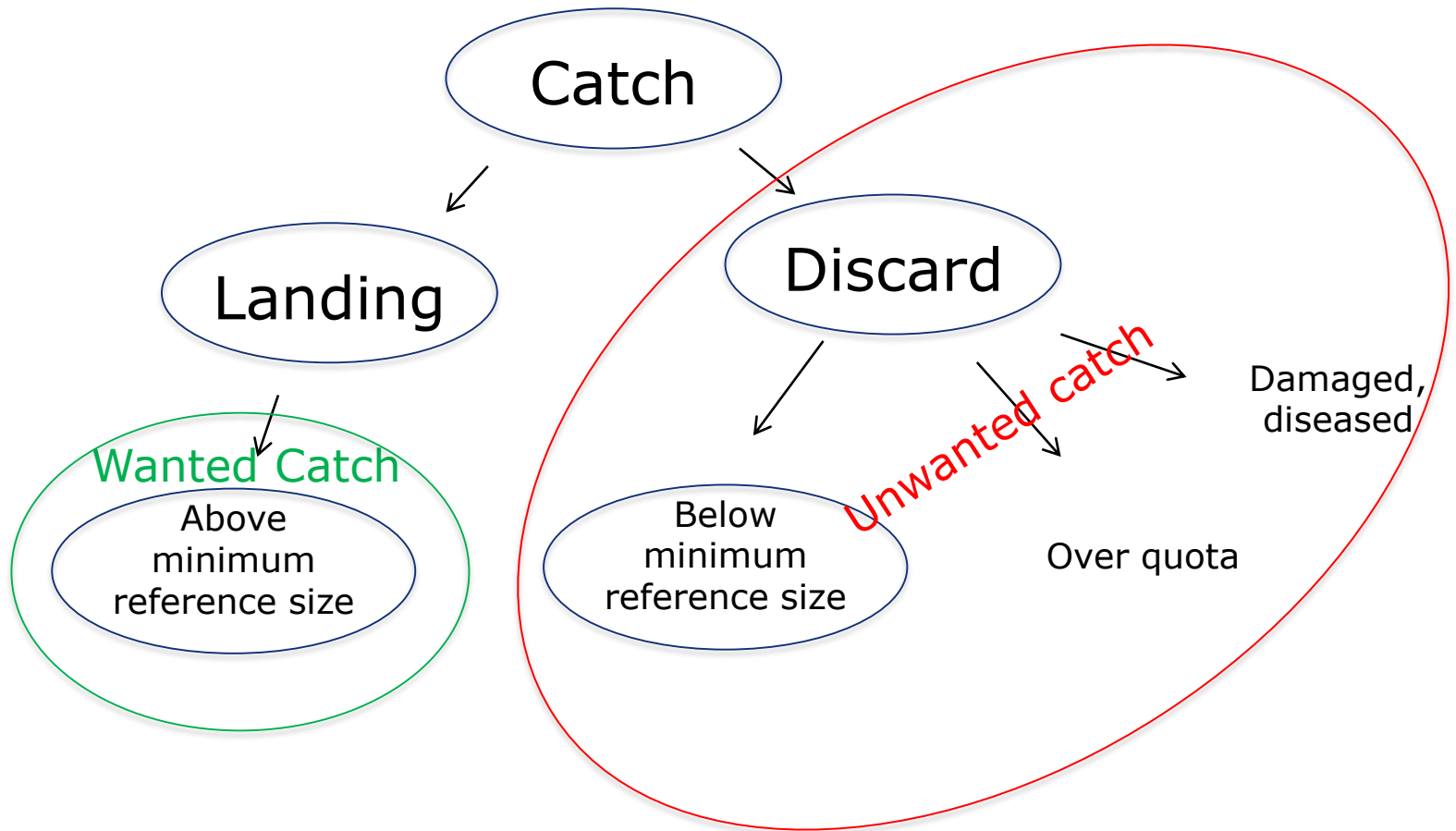
# "Unwanted Catch"?



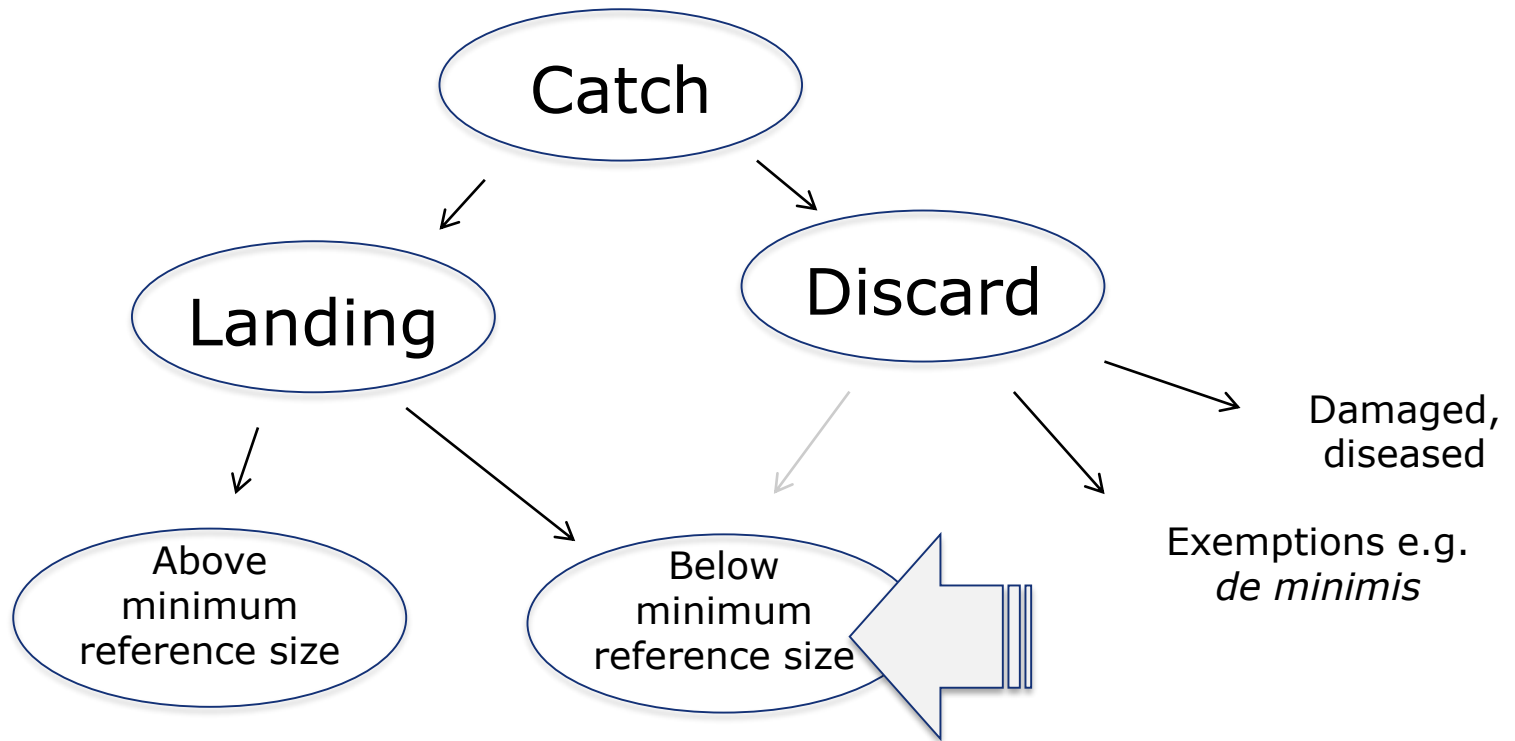
# Before Landing Obligation



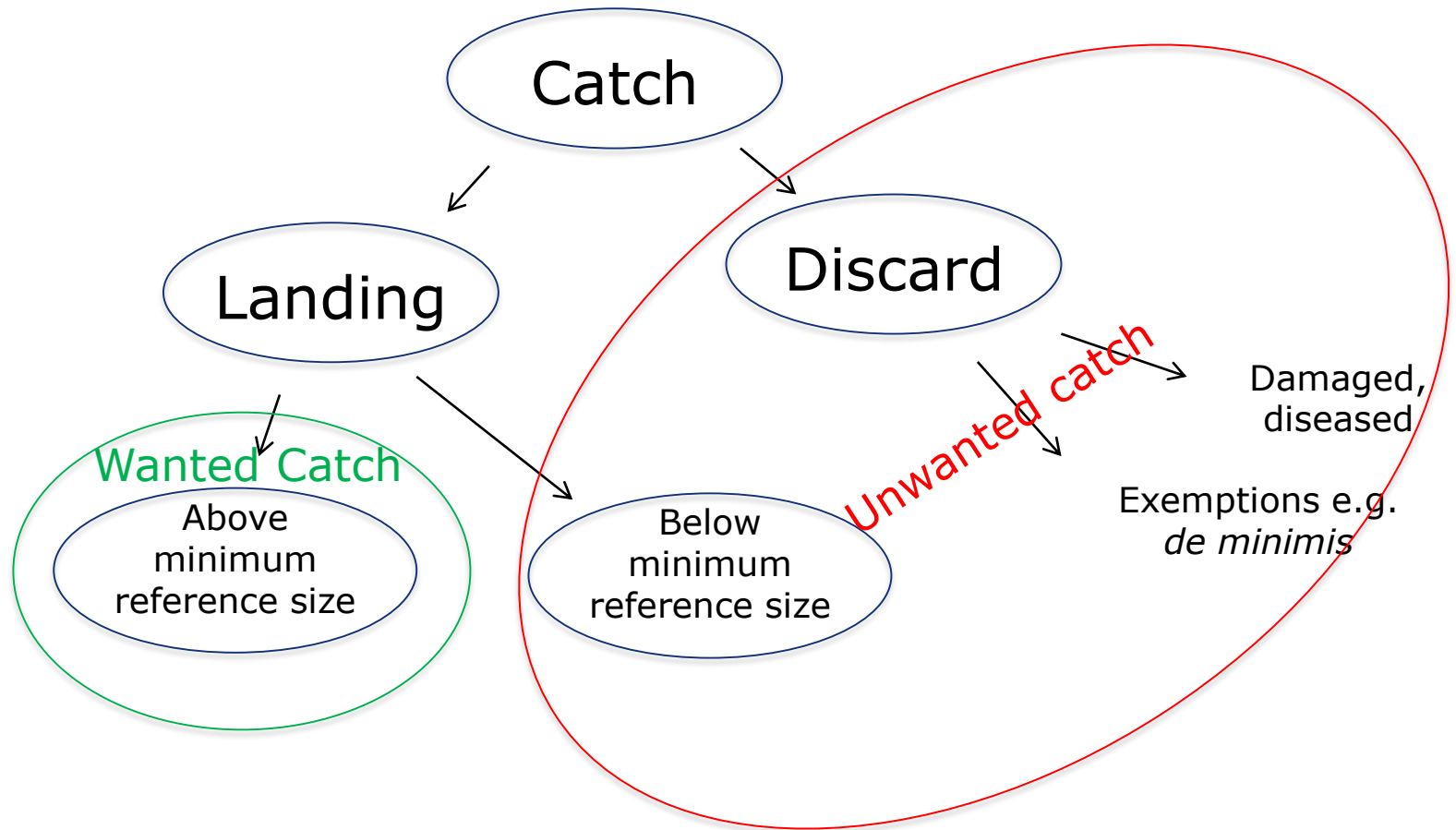
# Before Landing Obligation



# After Landing Obligation



# After Landing Obligation





# TAC Setting Previous Years: "Top-ups"

- Discard Plans allowed for early implementation of Landing Obligation (LO)
- Member States agree fleets to be put under LO and exemptions needed -> draft Joint Recommendations (JRs) for Discard Plans
- JR -> STECF for evaluation
- Delegated Acts drafted
- Back to STECF to calculate catches, landings discards per fleet segment. Provide a report with tables of data
- Thresholds data call -> How much of the fleet under the LO?
- Commission calculates "Top-ups" and presents via "non-paper"

# TAC Setting Previous Years: "Top-ups"

ICES Advice on fishing opportunities, catch, and effort  
Bay of Biscay and the Iberian Coast Ecoregion  
hke.27.8c9a

Published 30 June 2017  
DOI: 10.17895/ices.pub.3135

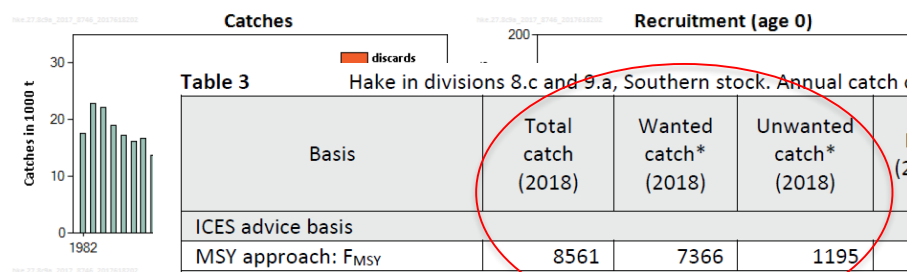
**Hake (*Merluccius merluccius*) in divisions 8.c and 9.a, Southern stock (Cantabrian Sea and Atlantic Iberian waters)**

## ICES stock advice

ICES advises that when the MSY approach is applied, catches in 2018 should be no more than 8561 tonnes.

## Stock development over time

The spawning-stock biomass (SSB) has increased since 1998 and is above MSY  $B_{trigger}$  in 2017. The fishing mortality (F) is above  $F_{MSY}$ . Since 2010, recruitment (R) has been close to the historical average.



**Table 3** Hake in divisions 8.c and 9.a, Southern stock. Annual catch options. All weights are in tonnes.

Basis	Total catch (2018)	Wanted catch* (2018)	Unwanted catch* (2018)	$F_{total}$ (2018)	$F_{wanted}$ (2018)	$F_{unwanted}$ (2018)	SSB (2019)	% SSB change **	% Advice change ***
ICES advice basis									
MSY approach: $F_{MSY}$	8561	7366	1195	0.25	0.22	0.03	38 286	55%	6%
Other options									
$F = 0$	0	0	0	0	0	0	51 997	111%	-100%
$SSB(2019) = B_{lim}$	28 905	24 547	4358	1.55	1.32	0.23	8000	-68%	259%
$SSB(2019) = B_{pa} = MSY B_{trigger}$	26 707	22 740	3967	1.27	1.08	0.19	11 100	-55%	232%
$F_{lim}$	24 320	20 753	3567	1.05	0.9	0.15	14 506	-41%	202%
$F_{pa}$	19 981	17 103	2878	0.75	0.64	0.11	20 832	-15%	148%
$F = F_{2017}$	18 063	15 478	2585	0.64	0.55	0.09	23 643	-4%	124%
EU Recovery Plan <sup>A</sup>	12 098	10 396	1702	0.38	0.33	0.05	32 763	33%	50%

\* "Wanted" and "unwanted" catch are used to describe fish that would be landed and discarded in the absence of the EU landing obligation, based on discard rates at length estimated by the assessment model for 2014–2016.

\*\* SSB 2019 relative to SSB 2018.

\*\*\* Total catch in 2018 relative to the advised catch for 2017 (8049 t).

## REGULATIONS

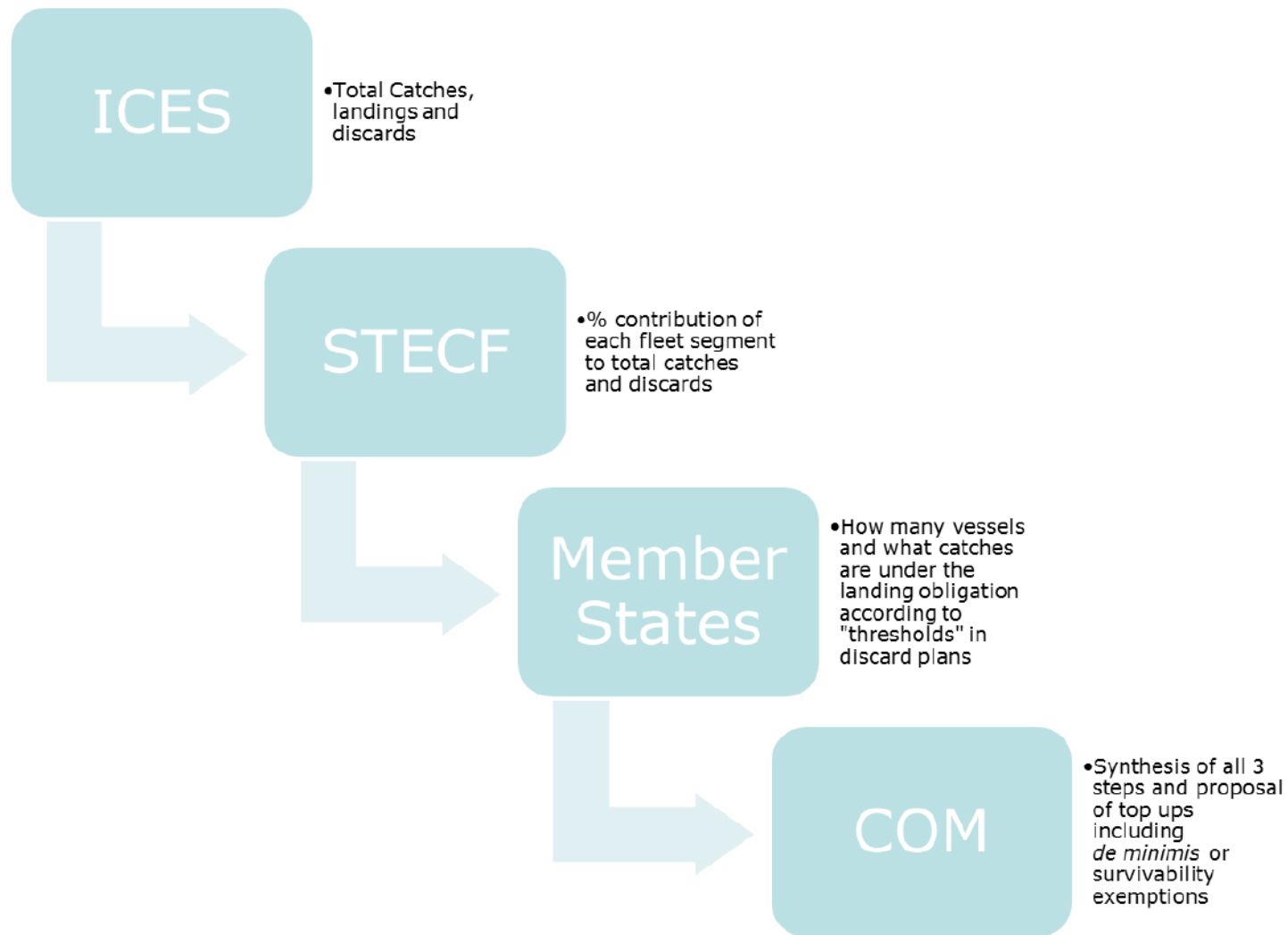
COMMISSION DELEGATED REGULATION (EU) 2017  
of 20 October 2017amending Delegated Regulation (EU) 2016/2374 establishing a discard  
fisheries in South-Western watersTHE EUROPEAN COMMISSION,  
Having regard to the Treaty on the Functioning of the European Union,3. Hake (*Merluccius merluccius*) fisheries

Fishing zones	Gear Code	Fishing gear description	Mesh Size	Species to be landed
ICES divisions VIIIa, b, d and e	OTT, OTB, PTB, SDN, OT, PT, TBN, TBS, TX, SSC, SPR, TB, SX, SV	All Bottom Trawls & Seines	Mesh size larger or equal to 100 mm wide	All catches of hake
	LL, LLS	All Long lines	All	
ICES divisions VIIIc and IXa	GNS, GN, GND, GNC, GTN, GEN	All Gill Nets	Mesh size larger or equal to 100 mm wide	All catches of hake
	OTT, OTB, PTB, OT, PT, TBN, TBS, TX, SSC, SPR, TB, SDN, SX, SV	All Bottom Trawls and Seines	Vessels which fulfil the following cumulative criteria: 1. Use mesh size larger or equal to 70 mm 2. Total hake landings in the period 2014/2015 (t) consist of: more than 5 % of all landed species and more than 5 metric tons.	

JRC SCIENCE FOR POLICY REPORT

Scientific, Technical and Economic  
Committee for Fisheries (STECF)  
-  
Data and information requested  
by the Commission to support the  
preparation of proposals for  
fishing opportunities in 2018  
(STECF-17-13)Table 2.3 **South Western Waters:** The contribution (%) of each fleet segment identified under the Mer... s to  
total catches and discards of the species-area combination.

Fishery	Gear	Mesh size	LO	ICES area	STECF Annex/area	STECF gear	2013			2014			2015			2016			Average (13-14)			(d)					
							landings (t)	Discards (t)	Catch (t)	landings (t)	Discards (t)	Catch (t)	Landings (t)	Discards (t)	Catch (t)	Landings (t)	Discards (t)	Catch (t)	Landings (t)	Discards (t)	Catch (t)	Landings (t)	Discards (t)	Catch (t)	Landings (t)	Discards (t)	Catch (t)
Common Sole	All bottom trawls: OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	70-100mm	All catches of common sole are subject to the LO	VIIIa, b, d and e	BoB, BA-B	OTTER	24.3%	73.1%	25.3%	28.9%	76.3%	31.3%	23.9%	32.0%	24.1%	24.4%	80.6%	26.9%	26.6%	74.7%	28%	26.4%	54.1%	56.3%	26%		
	All beam trawls (TBB)	70-100				BEAM	8.6%	0.9%	8.4%	7.8%	6.3%	7.7%	8.0%	10.7%	8.0%	8.5%	3.0%	8.2%	8.2%	3.6%	8%	7.9%	8.5%	8%	6.8%	8%	
	All trammel and gill nets: GNS, GN, GND, GNC, GTN, GEN, GTR	>=100m				GILL	4.3%	0.1%	4.0%	1.9%	0.9%	1.5%	1.6%	0.0%	1.6%	1.7%	0.0%	1.7%	2.8%	0.5%	3%	1.6%	0.4%	2%	1.7%	0.0%	2%
	All bottom trawls: OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	>=100				TRAMMEL	62.6%	25.9%	61.9%	61.0%	16.5%	58.8%	65.7%	57.3%	65.5%	64.8%	16.5%	62.8%	61.8%	21.2%	60%	63.4%	36.9%	65.3%	36.9%	64%	
Overall netters				66.7%	26.0%	65.9%	62.6%	17.4%	60.3%	67.4%	57.3%	67.1%	66.5%	16.5%	64.3%	64.6%	21.7%	63%	65.0%	37.4%	64%	67.0%	36.9%	66%			
Hake	All bottom trawls: OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	>=100	All catches of hake are subject to the LO	VIIIa, b, d and e	BoB, BA-B	OTTER	21.4%	62.8%	28.0%	20.2%	51.5%	24.4%	19.6%	34.1%	21.3%	20.4%	86.1%	29.0%	20.3%	57.2%	26%	19.9%	42.8%	23%	20.0%	60.1%	25%
	All longlines: LL, LLS	All				LONGLINE	20.4%	5.7%	18.1%	19.5%	0.0%	16.9%	18.9%	0.0%	16.7%	20.4%	0.1%	17.8%	20.0%	2.9%	17%	19.2%	0.0%	17%	19.7%	0.1%	17%
	All gill nets: GNS, GN, GND, GNC, GTN, GEN	>=100m				GILL	49.9%	19.6%	45.1%	44.0%	13.1%	39.9%	44.2%	56.5%	45.6%	39.8%	6.9%	35.5%	47.0%	16.4%	42%	44.1%	34.8%	43%	42.0%	31.7%	41%
		Overall						51.6%	22.3%	46.4%	45.4%	17.0%	41.6%	45.3%	64.2%	47.5%	41.1%	12.3%	37.4%	48.2%	19.6%	44%	45.4%	40.6%	45%	43.2%	38.3%
Nephrops	All bottom trawls: OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	>=70	All catches of Norway lobster are subject to the LO	VIIIa, b, d and e	BoB, BA-B	OTTER	99.0%	100.0%	99.4%	99.8%	100.0%	99.8%	99.8%	100.0%	99.8%	99.9%	100.0%	99.9%	99.4%	100.0%	100%	99.8%	100.0%	100%	99.8%	100.0%	100%
Anglerfish	All gill nets: GNS, GN, GND, GNC, GTN, GEN	>=170mm	All catches of anglerfish are subject to the LO	VIIIa, b, d and e	BoB, BA-B	GILL	11.7%	7.1%	11.4%	7.3%	0.2%	6.3%	7.8%	0.7%	6.7%	5.8%	0.6%	5.4%	9.5%	3.6%	9%	7.6%	0.5%	7%	6.8%	0.6%	6%
Nephrops	All bottom trawls: OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	>=70	All catches of Norway lobster are subject to the LO	VIIIc and IXa	IIb, BC-BA	3a (OTTER)	90.8%	91.2%	90.8%	97.1%	-	97.1%	99.3%	-	99.3%	92.6%	100.0%	92.6%	94.0%	91.2%	94%	98.2%	-	98%	95.9%	100.0%	96%
Hake	Trawls and Seines: OTB, OTT, OT, PTB, PT, TBN, TBS, OTM, PTM, TMS, TM, TX, SDN, SSC, SPR, TB, SX, SV	>=70mm	All catches of hake are subject to the LO for vessels that fulfil the following cumulative criteria: 1. Use mesh size larger or equal to 70 mm; 2. Total hake landings in the period 2014/2015 consist of: more than 5% of all landed species and more than 5 metric tons.	VIIIc and IXa	IIb, BC-BA	3a (OTTER>=32mm)	48.5%	98.9%	65.0%	50.6%	96.8%	62.7%	56.8%	98.4%	62.8%	52.7%	98.8%	62.5%	49.6%	97.8%	64%	33%	-	98.6%	63%		
	All gill nets: GNS, GN, GND, GNC, GTN, GEN	80-99	All catches of hake are subject to the LO			3b (Gillnets >=60mm)	29.8%	0.5%	20.2%	27.7%	2.6%	21.1%	25.8%	0.0%	22.1%	29.1%	0.6%	23.0%	28.7%	1.6%	21%	26.8%	1.3%	22%	27.5%	0.3%	23%
		Overall netters					6.6%	0.0%	4.5%	2.4%	0.0%	1.7%	1.1%	0.0%	1.0%	2.0%	0.0%	1.5%	4.5%	0.0%	3%	1.7%	0.0%	1%	1.5%	0.0%	1%
	All longlines (LL, LLS)	Hook size > 3.85 +/- 1.15 length and 1.6 +/- 0.4	All catches of hake are subject to the LO			3C (Longlines)	10.5%	0.0%	7.1%	16.1%	0.0%	11.9%	13.4%	0.0%	11.4%	13.6%	0.0%	10.7%	13.3%	0.0%	9%	14.7%	0.0%	12%	13.5%	0.0%	11%
Anglerfish	All gill nets: GNS, GN, GND, GNC, GTN, GEN	>=170mm	All catches of anglerfish are subject to the LO	VIIIc and IXa	IIb, BC-BA	3b (Gillnets >=60mm)	33.8%	0.0%	31.9%	39.6%	-	39.6%	37.5%	-	37.5%	29.5%	98.0%	30.5%	36.7%	0.0%	36%	38.6%	-	39%	33.5%	98.0%	34%

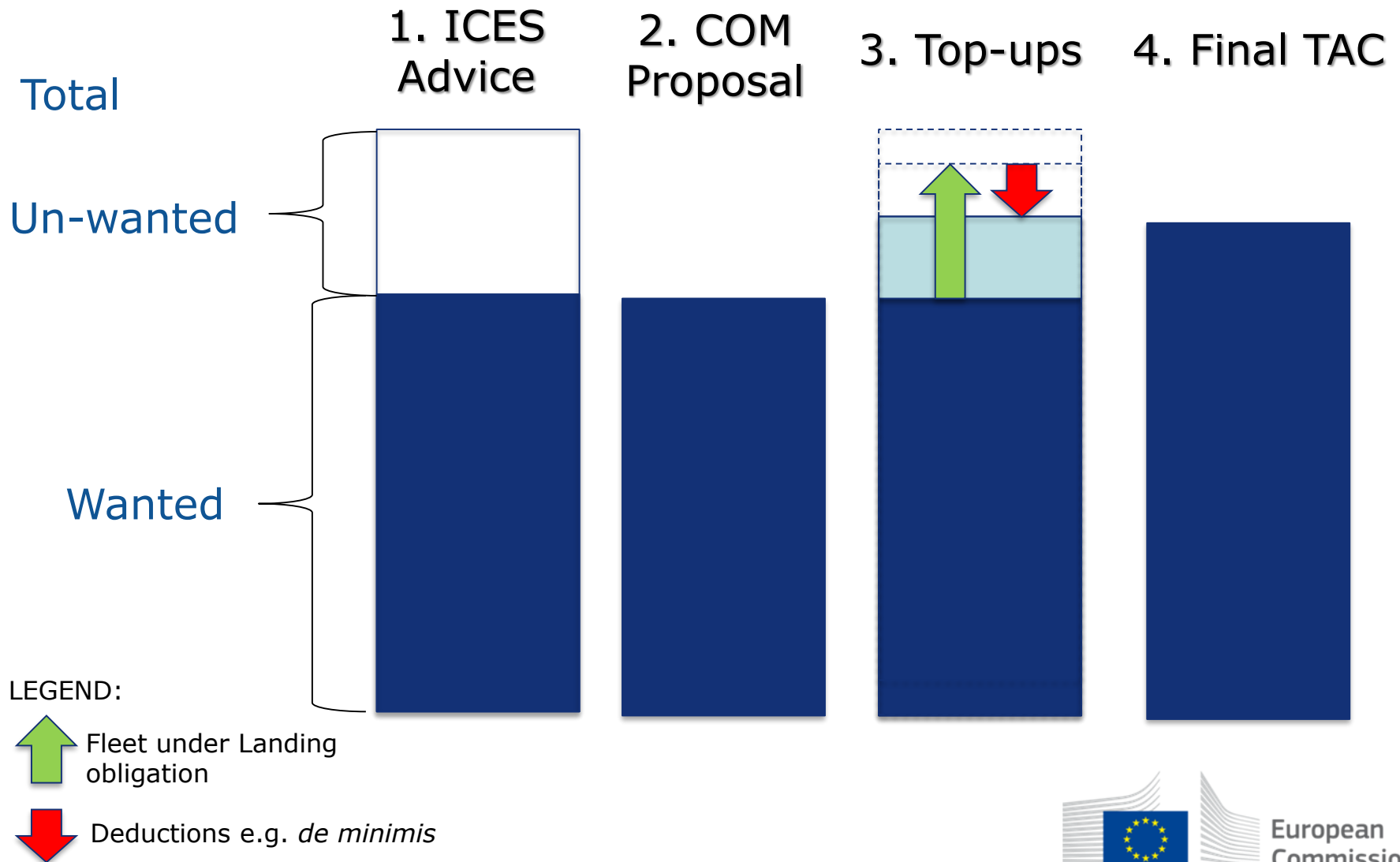


## Landings scenario- MS figures

ICES data	S Hake	2018	Comments
ICES catch TAC 2018	8561		
ICES landings TAC 2018	7366		
ICES discards 2018	1195		
Discard rate (all fleets)	13,96%		

Step 1	Deduct de minimis from ICES total catch figure	ICES catch TAC 2018  <i>de minimis</i>  Contr. to total catches <i>de minimis deduction (A)</i>	8561   6% 98,00% 503	98%  Percentage of catches under LO from STECF
Step 2	Deduct discards fleets not under LO	Total discards 2018  Contribution to discards by fleets not under LO If no data under previous step consider ICES discard rate Discards by fleets not under LO to be deducted (B)  Total deduction A+B New catch TAC TAC top up % relative to ICES landings TAC	1195  1,10% 14% 13 517 8044,5 9,21%	Fleet meeting threshold for inclusion    Fleet contribution to discard under the LO All bottom trawlers contribute 98.6% of discards Gillnetters contribute 0.3% longlines 0% discards
		Top up	678,5	

# TAC Setting Previous Years: "Top-ups"

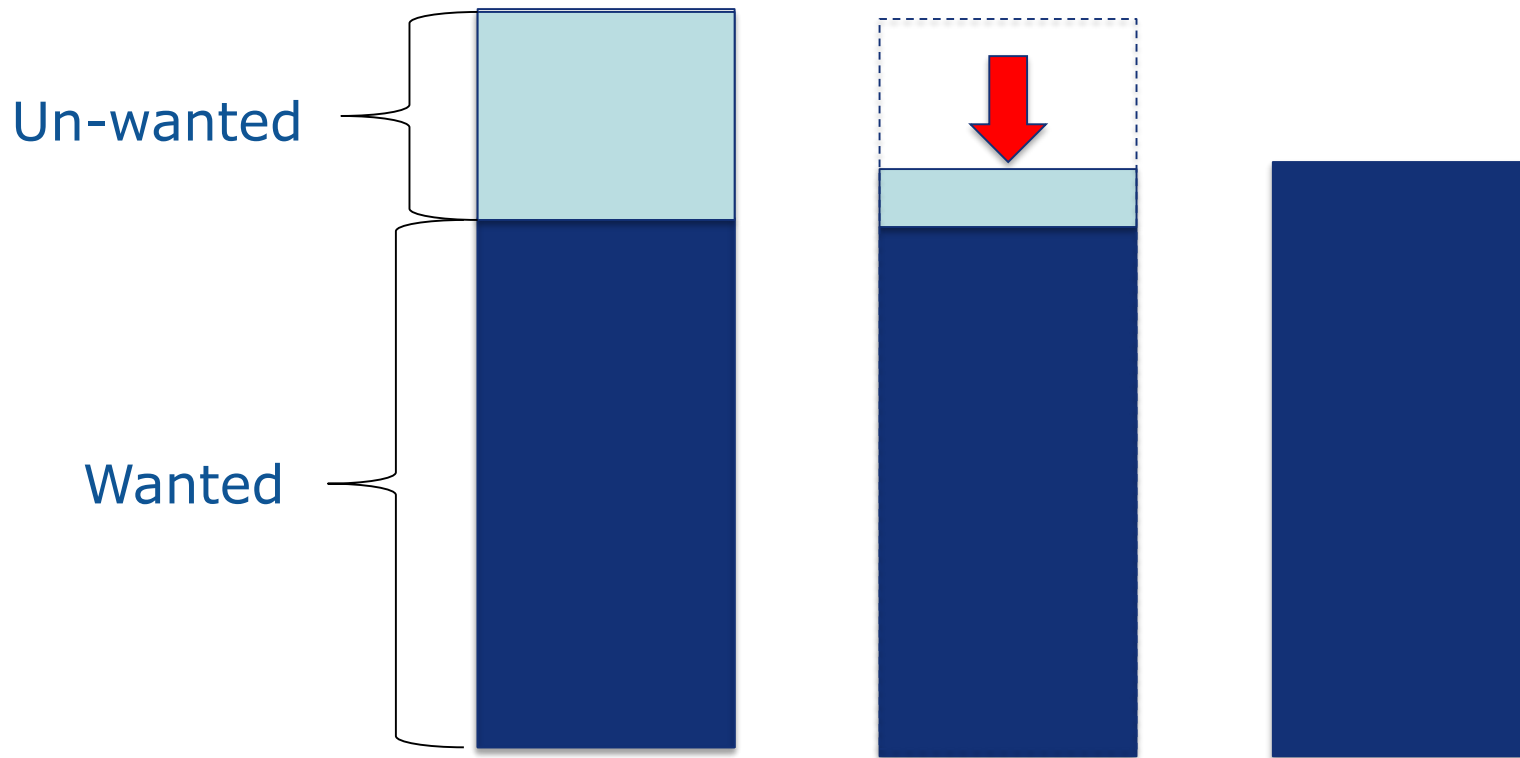


# TAC Proposals: For this year

1. ICES Advice

2. Deductions  
(e.g. *de minimis*)

3. COM Proposal



## Landings scenario- MS figures

ICES data	S Hake	2018	Comments
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Step 2	Deduct discards fleets not under LO	Total discards 2018  Contrib. discards by fleets If no data on step consider rate Discards not under LO to be deducted (B)	1195  10,10% 14% 13	Fleet meeting threshold for inclusion  Fleet contribution to the LO All boats contribute of discards Gillnetters contribute 0.3% longlines 0% discards
		Total deduction A+B New catch TAC TAC top up % relative to ICES landings TAC	517 8044,5 9,21%	
		Top up	678,5	



# Survival Exemptions:

- Nephrops – advice takes into account survival and so wanted catch level is higher than with no survival.
- If exemption will result in significant amount of dead discards – TAC setting will have to reflect this so as not to allow fishing mortality to be above ICES advice
- Majority of cases, STECF reported that small volumes, e.g. Fish in pots, traps, creels
- However Plaice may be a concern – await STECF report

# Extrapolations:

- Lack of data was significant problem for STECF
- Some exemptions apply to all MS and wider fleet, but data only provided by one MS or minority of fleet
- COM will rely on STECF estimates in the first instance
- Deduction extrapolation will never be more than ICES "unwanted catches".

# TAC Proposals for 2019

- Commission **intention is to present full TAC with the proposal.**
- STECF recommendations on Joint Recommendations, data availability for exemptions was a key issue: Extrapolation
- Calculations will follow STECF September WG and report and same methodology as top-ups in previous year.
- Thus Commission proposal should now be ICES advice MSY "Total catches" minus deductions, following the same methodology as "top-ups" last year.
- Caution! Old method of comparing COM proposal to ICES advice alone, will not be so straightforward this year! However this should allow earlier and more transparent consultation.

# Review

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Thank you!

