

2019 ACTION PLAN Study of the structure of the full-time fleet

**Indicators** 

Action plan for the segments showing an imbalance between fishing capacity and fishing opportunities

**GENERAL SECRETARIAT FOR FISHERIES** 

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

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### **INTRODUCTION**

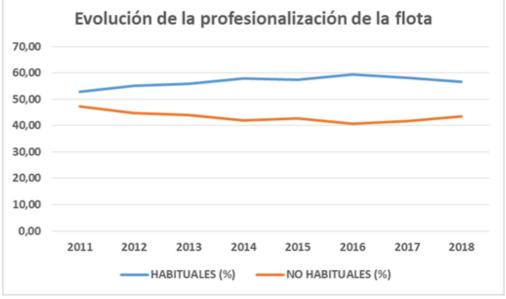
In accordance with Regulation (EU) No 1380/2013 of the European Parliament and of the Council of 11 December 2013 on the Common Fisheries Policy, if the assessment of the annual capacity of the national fleet clearly demonstrates that fishing capacity is not effectively balanced with fishing opportunities, the Member State shall prepare and include in its annual report an ACTION PLAN for the

fleet segments with a structural overcapacity. The action plan shall set out the adjustment targets and tools to achieve a balance and a clear time-frame for its implementation (Article 22).

#### **POPULATION**

The study population is comprised of the active vessels that operated for more than 90 days in 2018. The rest of the active fleet is not considered to be operating full-time, and is therefore not covered by the action plan since its fishing activity is considered to be part-time.





Evolución de la profesionalización de la flota

HABITUALES (%)

NO HABITUALES (%)

PART-TIME (%)

The table above shows that the number of registered vessels has been decreasing, as has the number of active vessels. We can see that the percentage of vessels that operated for more than 90 days/year decreased this year, primarily due to the application of a temporary closure mainly affecting the Mediterranean as a response to the state of fishery resources and the signing of agreements with Morocco and Guinea-Bissau.

### **INDICATORS**

These figures have been compiled since 2012, and so we currently have a time series covering six years, which facilitates a more reliable overview of the information obtained. Nevertheless, the volatile

nature of fishing revenue/costs leads to substantial year-on-year fluctuations in economic indicators tracking the fishing industry.

One notable feature of the segmentation of the study population is the combining of the 00-10, 10-12 and 12-18 vessel length classes into a single segment (00-18). This has been done because economic data for the full-time fleet is not broken down to the above extent, and so with a view to maintaining consistency with the series used in the past, the decision was made to adopt a single segment covering all three vessel lengths, especially since these are mainly artisanal vessels that make similar fishing trips exploiting the same stocks.

Additionally, improvements have been made since 2014 to obtain precise data on Spain's various fisheries, which are different to and far more varied than the fisheries of the rest of the EU; consequently, the classification proposed by the EU does not meet the needs of the Spanish fleet.

For this reason, since 2014 separate data have been made available for the Cantabria and North-West (CNW) and Gulf of Cádiz (GC) fleets, both of which are classified as 'North Atlantic' by the EU. Therefore, for the years 2012 and 2013 — before this improvement was made — the indicator values for the segments operating in those two fishing grounds are still grouped together. With a view to finding a solution to the situation, a survey was performed of the data on the two fishing grounds for 2012 and 2013, covering the stocks in each segment and the sample used to generate the economic data, which made it possible to attribute the indicator values to one fishing ground or the other (CNW or GC) in most cases.

Another improvement made since 2014 is that the surface longliner fleet is evaluated separately from other vessels using hooks. Fleets using passive gear in EU waters (which the EU groups together with the North Atlantic region in general, meaning that data for other fleets using passive gear in national fishing grounds appeared in the same category) are also treated separately. These improvements mean that the data on stocks in some segments are not homogeneous, making the figures difficult to interpret. Nevertheless, in future such improvements will provide a more precise understanding of the areas requiring more decisive action.

### CALCULATION OF INDICATORS

The indicators set out in the 2019 Action Plan have been charted using the data available for the years 2012 to 2017.

This document analyses the biological, economic and technical indicators, segment by segment, using data for 2012-2017, taking the improvements made into account as far as is possible and evaluating the data obtained from economic surveys, data on fishing effort and data on dependency on overexploited or high-risk stocks to reach conclusions as to whether there is a balance or imbalance between capacity and opportunities. Following EU guidelines, for each segment we have obtained two economic indicators (CR/BER and RoFTA), one technical indicator (the indicator for inactivity has not been included in the action plan since the study population is vessels that operated for more than 90 days), and two biological indicators (SHI and SAR).

To obtain values that would reflect the fleet's particular situation over 2012-2017, we calculated the weighted average for the period in question for each indicator (CR/BER, RoFTA, SHI and the technical indicator on fleet use). The aim was to give greater weight to recent years than to years past, since we consider that the more recent the data, the more accurate a picture we gain of the situation, with 2017

being assigned a greater weight than 2016, and so on. This allows us to obtain average values for the whole period that still take into account that the most important data are those for the last year.

When calculating the **weighted overall indicator**, we use a weighted average to give greater importance to economic and biological indicators than to the technical indicator. In order to highlight the extent to which an indicator is red, yellow or green we have also assigned a weight to each value depending on its position within the overall distribution for that indicator. The weight assigned is 3 in the case of 'normal' values within the distribution, 2 for atypical values and 1 for extremely atypical values.

This is carried out for each of the four indicators: RoFTA, CR/BER, SHI and TECHNICAL. The overall indicator is obtained using the following formula (weighted average formula):

CRInd/BER \* WeightedCR/BER + RoFTAInd \* WeightedRoFTA + TechInd \* WeightedTech + SHIInd \* WeightedSHI

Overall indicator = \_\_\_\_\_\_

WeightedCR/BER + WeightedROFTA + WeightedTech + WeightedSHI

Since we consider the economic indicators and SHI to be more important than the technical indicator, the last of these will be assigned a weight equal to half. In other words, normal values are weighted at 1.5, atypical values at 1, and extremely atypical values at 0.5.

Once these calculations have been carried out, we apply certain factors depending on whether the fishing segment is one that exploits more than 10% high-risk species (SAR indicator). The results obtained go from red (maximum imbalance) to yellow (imbalance) and green (no imbalance).

The following table provides data on the segments of the **population subject to the 2017 action plan** (latest indicators). We then detail the results obtained for each supra-region and fishing ground, as well as the segments where an imbalance is identified between fishing capacity and fishing opportunities, which therefore require an action plan to balance the fleet.

In 2017, of the 9,356 registered vessels, 8,295 were active, while 1,061 vessels were inactive (11.3%).

			LENGTH CLASS																		
	GROUN D	GEAR	1	2	3	4	5	6	Total												
	- VAL	DTS				10	31	11	52												
	NON- NATIONAL	PGO				10	30		40												
	Ź	PGP					54		54												
	Total non	-national				20	115	11	146												
		DFN		84	109	23			216												
()	CNW	DRB	1,058						1,058												
Ĕ		DTS		13			71		84												
TLA		FPO		63	47				110												
H A		ט		5	0									нок		37	64	29	25		155
NORTH ATLANTIC										PMP	866	33	25				924				
_		PS			63	74	77		214												
	Total	CNW	1,924	230	308	126	173		2,761												
	O	DFN			31				31												
	25	DRB		14	80				94												
		DTS			52	66			118												

		PMP	117		17				134
		PS			37	27			64
	Tota	I GC	117	14	217	93			441
N	ORTH ATLAN	ITIC	2,041	244	525	239	288	11	3,348
		DFN		77	50				127
	Z	DRB		16	14				30
AN	NEA	DTS		16	144	300	129		589
ANE	RAI	FPO			25				25
MEDITERRANEAN	MEDITERRANEAN	HOK		22	15				37
)TE	EDI	PGO			37	21			58
MEC	Σ	PMP	36	542	28				606
_		PS		14	81	86	20		201
	Total MED		36	687	394	407	149		1,673
N	1EDITERRANI	EAN	36	687	394	407	149		1,673
	۲۲ کر	НОК		9	14		22		45
	CANARY ISLANDS	PMP	159						159
	2 25	PS			10				10
OTHER REGIONS	Total C		159	9	24		22		214
R RE	INTERNATION AL	DTS					39	33	72
HE	NAT. AL	НОК			16		12		28
0	ERN	PGO					62	23	85
	INI	PS						26	26
	Total INTERNATIONAL				16		113	82	211
(	OTHER REGIC	ons -	159	9	40		135	82	425
	Overall tota	al	2,236	940	959	646	572	93	5,446

Of the active vessels, 5,446 fished full-time (operating for more than 90 days/year) and the action plan has been created based on these, which have been grouped into 50 segments. Overall, 1,002 vessels belonging to 13 fleet segments were found to be out of balance and 4,444 belonging to 37 segments were found to be in balance, resulting in 87% of the study population being in balance. Likewise, the indicators show a technical imbalance in the artisanal fleet which, according to STECF guidelines, should not be considered decisive when determining whether there is an imbalance in this fleet.

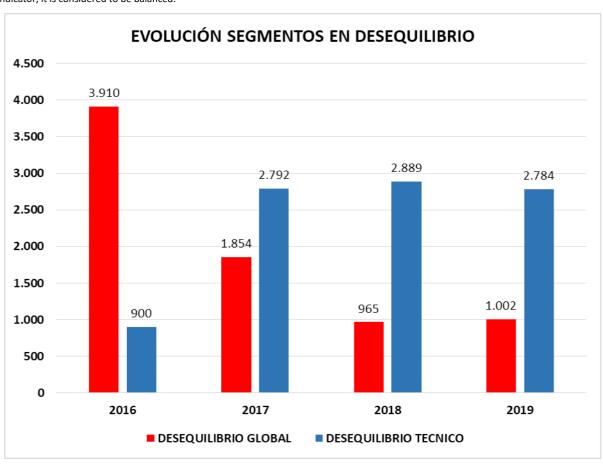
If we apply these data to the active fleet, we can see that 1,073 vessels are operating in segments that are out of balance, while 7,222 are operating in segments that are in balance.

The following table provides data on the segments where an imbalance is identified between fishing capacity and fishing opportunities in this action plan — based on the indicators for 2012-2017 — followed by the results obtained for each supra-region and fishing ground for each indicator and their weighted changes.

				2019 ACT	TION PLAN	
	Gear	Length		VESSELS INCLUDED IN ACTION PLAN	ACTIVE VESSELS	
CNW	Trawl nets	10-24	2	13	14	Biological imbalance
CNW	Trawl nets	24-40	2	71	71	Biological imbalance
CNW	Gillnets	18-40	2	23	24	Biological imbalance
CNW	Purse seines	24-40	2	77	77	Biological imbalance
CNW	Hooks	00-18	2	101	143	Biological imbalance

CNW	Hooks	18-24	2	29	29	Biological imbalance		
MED	Trawl nets	18-24	2	300	303	Biological imbalance		
MED	Trawl nets	24-40	2	129	132	Biological imbalance		
MED	Purse seines	00-18	2	95	102	Biological imbalance		
MED	Purse seines	18-24	2	86	88	Biological imbalance		
MED	Purse seines	24-40	2	20	26	Biological imbalance		
MED	Surface longlines	00-18	2	37	42	Biological imbalance		
MED	Surface longlines	18-40	2	21	22	Biological imbalance		
RFOs	Hooks	00-24	2			Economic imbalance (2014-2016)		
MED	Polyvalent gear	00-40	2			Technical imbalance only		
CNW	Dredges	00-18	2			Technical imbalance only		
CNW	Polyvalent gear	00-40	2			Technical imbalance only		
MED	Hooks	00-40	2			Economic imbalance (2014-2015)		
CAN	Polyvalent gear	00-40	2		Technical imbalance only			

<sup>\*</sup> Taking into account the range of indicators and the changes they show — along with the STECF reports that have reiterated since 2015 that low fishing ground exploitation (technical imbalance) by the artisanal fleet cannot be attributed to an imbalance between capacity and opportunities in the green segments marked with a '2' — these are considered to be in balance. The economic indicator for the segment of 00-18 metre vessels using hooks in the Mediterranean was healthy in 2016 following two years (2014 and 2015) of low profits, but given the segment's good long-term profitability and lack of at-risk species in the biological indicator, it is considered to be balanced.



EVOLUCIÓN SEGMENTOS EN DESEQUILIBRIO	5
DESEQUILIBRIO GLOBAL	
DECECUIU IRRIO TECNICO	

### STUDY OF NATIONAL FISHING GROUNDS

### **CANTABRIA AND NORTH-WEST**

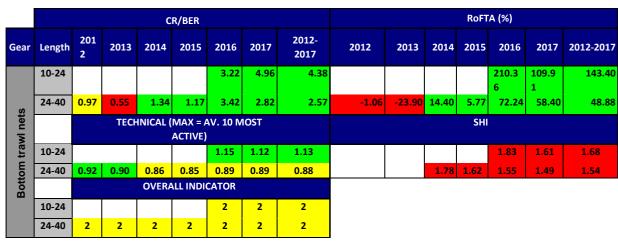
### TRAWLERS (CNW)

During 2017, 84 vessels — mainly trawlers — operated for more than 90 days/year, one vessel more than the previous year.

**The 10-24 segment** comprises 13 vessels using small-scale gear (almost all of which measure approximately 12 metres) and 3 trawlers measuring approximately 20 metres. The CNW **24-40 segment** comprises 71 trawlers.

In 2017, the <u>economic indicators</u> for this segment showed strong results, with high short-term profitability, and although long-term profitability was lower than in 2016, it was still satisfactory. In relation to the <u>technical indicator</u> for small-scale vessels, its value of greater than 1 indicates a certain level of overexploitation in the stratum.

Inactivity in the segment was less than 4%, which can be considered a technical balance.



The biological indicator shows that the fleet depends on overexploit ed stocks, despite a slight improveme

nt in the indicator in both the 10-24 and 24-40 classes, caused by the improvement in Southern HKE stocks and a sharp decline in catches of this species. In the 10-24 class, we can observe an increasing dependency on blue whiting, despite a reduced dependency on mackerel and Southern hake. In the 24-40 class, we can observe an increasing dependency on mackerel and a lower dependency on Southern hake and blue whiting.

The results obtained suggest that it is advisable that an **action plan be created for this fleet**, based mainly on the biological indicator.

							Overexpl																								
LENGTH	TOT_VAL AT- RISK STOCK	TOT_VAL STRATUM	PER CENT	AV. FISHSTOCK	STOCK VAL	F_etoile2	oited stock	INDICATOR	_	overexp loited																					
ELIVOITI	MONOTOCK	TOT_VACSTIVATOR	_		WLERS CN		Stock	III DICHION	33033	ioited																					
				hke-nrtn	10,893	1	FALSE																								
	~			hke-soth	7,679,609	2.37	TRUE																								
	17,799,678	91,654,423		hom-soth	674	0.62	FALSE		_																						
24-40	799	654	19.42%	lin-comb	558	1.08	TRUE	1.48	6	3																					
	17,	91,		mac-nea	3,675,380	1.4	TRUE																								
				whb-comb	6,432,564	0.47	FALSE																								
			2013	SHI TRAV	NLERS CN	IW																									
				hke-nrtn	27,707	1	FALSE																								
	182	788		hke-soth	9,180,658	2.37	TRUE																								
24-40	04,4	26,7	28.84%	lin-comb	272	1.08	TRUE	1.34	5	3																					
	23,604,482	81,856,788		mac-nea	3,462,780	1.4	TRUE																								
	(1	ω		whb-comb	10,933,066	0.47	FALSE																								
			2014	SHI TRAV	NLERS CN	IW																									
				AO-ALB-N	3,128	0.72	FALSE																								
	9	092		hke-nrtn	1,394	1.26	TRUE																								
24.40	7,37	,806	F2 240/	hke-soth	8,825,867	2.84	TRUE	4.70	_	-																					
24-40	37,727,376	70,9	70,908,760	2,07	5′02	70,9	70,	70,5	70,9	53.21%	lin-comb	158	1.08	TRUE	1.78	6	5														
	37			mac-nea	7,874,476	1.54	TRUE																								
				whb-comb	21,022,353	1.43	TRUE																								
			2015	SHI TRAV	<b>NLERS CN</b>	IW																									
				hke-nrtn	1,140	0.79	FALSE																								
	1,367	5		hke-soth	10,940,890	2.10	TRUE																								
24-40		1,367	1,367	1,367	1,367	1,367	1,367	1,367	36,801,367	3,32	EO E 20/	lin-comb	618	1.08	TRUE	1.62	6	4													
24-40	08′9	61,823,325	,823	,823	,823	1,823	1,82	1,82	1,82	1,82	1,82	51,82	1,82	1,82	1,82	1,82	1,82	1,82	1,82	1,82	1,82	1,82	1,823	59.53%	mac-nea	6,185,555	1.31	TRUE	1.62	О	4
	36			NEP-2324	309	0.78	FALSE																								
				whb-comb	19,672,854	1.45	TRUE																								
			2016	SHI TRAV	<b>NLERS CN</b>	IW																									
				AO-ALB-N	77	0.54	FALSE																								
	561	123		hke-soth	650,490	2.27	TRUE																								
10-24	1,142,661	2,521,423	45.32%	mac-nea	136,387	1.31	TRUE	1.83	4	3																					
	1,1	2,5		whb.27.1-	355,707	1.21	TRUE																								
				91																											
				AO-BET	240	1.28	TRUE																								
				hke-nrtn	462	0.96	FALSE																								
	296	277		hke-soth	10,818,421	2.27	TRUE																								
24-40	36,249,296	62,909,772	57.62%	hom-west lez.27.4a6a		0.97	FALSE FALSE	1.54	7	4																					
	36,2	62,5		mac-nea	7,169,792	1.31	TRUE																								
					218,259,826		TRUE																								
				91		1.21	TROL																								
			2017		NLERS CN	IW																									
				AO-ALB-N	120	0.54	FALSE																								
	1,028,859	182		dgs.27.nea		0.48	FALSE																								
10-24	)28,	2,492,182	/11 200/	hke-soth	425,862.86		TRUE		6	4																					
	1,(	2,4		mac-nea	69,208.14	1.31	TRUE	1.61																							
			I		<u> </u>	l			l	l l																					

				pil-27.8c9a whb.27.1- 91	3,490.88 2,530,140.2 3	1.7 1.26	TRUE			
24-40	34,057,457	39,758,402	56.99%	hom-west mac-nea	16,741.26 811647.7 1,075.84 8,023,061. 3 17,204,931	0.79 2.1 0.97 1.31	FALSE TRUE FALSE TRUE TRUE	1.49	5	3

### GILLNETTERS (CNW)

The **00-18 gillnetter** segment (193 full-time vessels, 9 fewer than the previous year), which in 2013 and 2014 had shown an economic imbalance, began to recover in 2015 and consolidated this recovery with good short- and long-term profitability, despite profitability falling slightly in 2017. There was a slight imbalance in fishing ground exploitation, with 30 vessels active for fewer than 90 days/year. In biological terms, no more than 40% of the catch is surveyed stock, although the fleet mainly fishes overexploited species such as Southern HKE and MAC. It does not fish high-risk species and its weighted indicator for 2017 is balanced.

The **18-40 gillnetter** segment comprises 23 vessels (1 more than the previous year) that mainly use bottom-set gillnets. This segment includes two 24-40 metre vessels (included in the cluster for reasons of statistical confidentiality).

These show improved <u>profitability</u> over the short term, and a more notable improvement over the long term, giving balanced economic indicators mainly due to increased revenue in this stratum, as well as to improved depreciation. In <u>technical terms</u>, fishing ground exploitation is balanced and 23 of the 24 active vessels operate full-time; in <u>biological terms</u>, the segment's dependency on overexploited stocks is still evident, although dependency in the stratum has diminished since there was increased activity in the seasonal coastal fishing of bonito (a change of method for this fishery), a species that displays healthy levels, as well as increased dependency on Northern HKE, resulting in a slight improvement in the biological indicator.

				C	R/BER		RoFTA (%)							ı		
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012-2017	Ì
	00-18	2.05	0.55	-0.99	1.10	6.29	2.87	3.18	84.77	-15.57	-39.29	3.87	88.58	57.94	50.77	ì
	18-40	0.89	3.00	2.36	1.02	0.98	1.77	1.54	-19.73	52.65	57.66	0.86	-0.86	20.36	15.25	ì
			TECHNI	CAL (MA	X = AV. 1	0 MOST	ACTIVE)		SHI							ì
Gillnets	00-18	0.74	0.74	0.76	0.77	0.78	0.76	0.77								ì
<u>                                    </u>	18-40	0.91	0.89	0.90	0.90	0.92	0.94	0.92	1.38	1.63	1.83	1.16	1.67	1.43	1.49	ı
				OVER	ALL INDIC	CATOR										
	00-18	3	1	1	2	3	3	3								
	18-40	1	2	2	2	1	2	2								

An action plan is recommen ded for the 18-40 class based on this

dependency in the biological indicator.

	TOT VAL SURVEYED		PER				overexploited stock				
LENGTH	<b>STOCK</b>	TOT VAL STRATUM	CENT	FISHSTOCK	STOCK VAL	F_etoile2	•	INDICATOR	stock_assess	overexploited	
				2012 SHI	GILLNETTE	RS CN	IW				
				AO-ALB-N	2,633,885	0.72	FALSE	-			
	6]	92	٠,0	AO-BET	705	0.95	FALSE	_			
18-24	4,31	32,0	48.78%	AO-YFT	13	0.86	FALSE	_	6	2	
20 2 .	5,064,319	10,382,092	48.	hke-nrtn	20,691	1	FALSE	1.38		_	
	,			hke-soth	1,763,899	2.37	TRUE	_			
				mac-nea	645,127	1.4	TRUE				
				2013 SHI	GILLNETTE	RS CN	IW				
				AO-ALB-N	2,555,111	0.72	FALSE				
		5		AO-BET	3,373	0.95	FALSE	_			
	6,018,360	11,315,342	%6	hke-nrtn	3,138	1	FALSE		_		
18-24	018	315	53.19%	hke-soth	3,261,932	2.37	TRUE	1.63	7	3	
	9'9	11,		lin-comb	920	1.08	TRUE	_			
				mac-nea	181,298	1.4	TRUE				
				whb-comb	12,587	0.47	FALSE				
	ı	ı		_	GILLNETTE						
				AO-ALB-N	2,328,098	0.72	FALSE	_			
		5,591,691	4		AO-BET	262	0.95	FALSE			
	,691		%6	hke-nrtn hke-soth	21,454 2,706,717	1.26 2.84	TRUE TRUE	4.00	_	_	
18-24	18-24	88	47.09%					1.83	7	5	
	,	11		lin-comb	1,836	1.08	TRUE	-			
				mac-nea	510,228	1.54	TRUE	_			
				whb-comb	23,096	1.43	TRUE				
	T	T T	T T		GILLNETTE	•	•				
				AO-ALB-N	4,662,592	0.54	FALSE				
				AO-BET	24,146	1.28	TRUE				
	978,	1,85(	4%	hke-nrtn	10,014	0.79	FALSE		_	_	
18-24	8,357,876	13,071,850	63.94%	hke-soth	2,991,710	2.10	TRUE	1.16	7	5	
	∞`	13		lin-comb	390	1.08	TRUE	4			
				mac-nea	663,946	1.31	TRUE	_			
				whb-comb	5,079	1.45	TRUE				
				2016 SHI	GILLNETTE	RS CN	IW				
				AO-ALB-N	1,338,219	0.54	FALSE				
				AO-BET	37,924.75	1.28	TRUE				
	,874	,542	86	hke-nrtn	24,751.63	0.96	FALSE		_	_	
18-40	4,763,874	8,315,542	57.29%	hke-soth	2,880,654	2.27	TRUE	1.67	6	4	
	. 4	∞,	.75	mac-nea	453,328	1.31	TRUE				
				whb.27.1- 912	28,996	1.21	TRUE				
	<u> </u>	<u> </u>	<u>.                                      </u>		GILLNETTE	RS CN	W				
				AO-ALB-N	2,086,986.25		FALSE				
				AO-BET	43,258.37	1.28	TRUE				
	36	03	%	hke-nrtn	70,214.47	0.79	FALSE				
18-40	5,703,936	8,631,203	%60.99	hke-soth	2,965,819.09	2.1	TRUE	1.43	6	4	
	5,70	8,63	.99	mac-nea	537,295.91	1.31	TRUE				
		8 0		whb.27.1-	361.95	1.26	TRUE				
				912							

### PURSE SEINERS (CNW)

In total, 214 vessels fished principally with purse seines, while 18 vessels were not part of the full-time fleet (operating for fewer than 90 days/year) and less than 2% were inactive.

In the **0-18 and 18-24 segments**, the <u>economic indicator</u> worsened slightly compared to the previous year although it remained in balance. Although the technical indicator also worsened compared to the previous year, fishing ground exploitation was unchanged. It was not possible to assess the SHI for these segments since surveyed stocks did not make up more 40% of their catch; they mainly fished for sardine.

The weighted indicator for these segments shows that they are in balance.

				C	R/BER							RoFTA (	%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	00-18	1.82	1.18	2.00	2.49	7.37	5.06	4.95	78.11	18.17	37.51	22.88	133.32	136.51	110.30
	18-24	0.32	0.53	0.70	1.70	5.40	2.89	3.12	-81.00	-15.32	-15.20	51.49	82.08	70.47	60.44
	24-40	4.09	7.28	3.98	1.87	9.75	4.19	5.39	79.31	48.59	88.90	60.87	146.08	86.05	96.98
		TECHNICAL (MAX = AV. 10 MOS										SHI			
es		ACTIVE)													
seines	00-18	0.75	0.76	0.83	0.76	0.86	0.84	0.83							
Se S	18-24	0.83	0.82	0.85	0.85	0.93	0.89	0.89							
Purse	24-40	0.84	0.79	0.85	0.91	0.91	0.88	0.88						1.32	1.32
					SAR						OVERAL	L INDICA	ATOR		
	00-18								3	3	3	3	3	3	3
	18-24								1	1	1	3	3	3	3
	24-40					HOM.27			3	3	3	3	3	2	2

In 2017, a total of 77 vessels operated full-time in the **24-40** segment, 26 more than the previous year, which can be explained by the fact that this fleet alternates between fisheries, adopting hook gear for mackerel and bonito. In 2017, however, purse seines were used more frequently. This may have influenced the slight drop in profitability, although economic performance was nevertheless good overall and fishing ground exploitation homogeneity decreased.

The <u>biological indicator</u> for the 24-40 stratum revealed that surveyed stocks exceeded 40% in this year because new surveys of sardine in zones 8ABD and 8C9A (both of which are overexploited) were included in the calculation. The SHI had a value of 1.32 (out of balance), which meant that the indicator gave a biological imbalance for the segment, therefore recommending an action plan.

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK 2017 SHI F	STOCK VAL	F_etoile2	· · · · · · · · · · · · · · · · · · ·	INDICATOR	stock_assess	overexploited
				AO-ALB-N	23,586,440	0.54	FALSE			
	0.1	~		AO-BET	1,283,232	1.28	TRUE			
	952	203	%0	AO-BFT-E	3,828,309	0.34	FALSE	1.32		
24-40	40,849,952	13,	ω.	hom-west	386,741	0.97	FALSE		7	4
	8,0	78,1	52	mac-nea	6,230,247	1.31	TRUE	=		
	4	7		pil-27.8abd	4,404,195	6.34	TRUE			
				pil-27.8c9a	1,130,787	1.7	TRUE			

## **VESSELS USING HOOKS (CNW)**

The fleet mainly using hooks comprises 155 vessels (employing small-scale gear, fixed and bottom-set gillnets and bottom-set longlines; as well as purse seiners mainly active in coastal fishing for bonito and mackerel with hooks).

				CR	BER							RoFTA (	%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
S	00-18	1.46	0.45	2.51	2.80	3.90	3.04	3.09	37.53	-16.65	37.69	51.70	68.35	64.13	58.96
Hooks	18-24	1.29	0.46	1.86	2.07	1.71	2.06	1.90	14.09	-11.89	23.28	70.06	15.31	43.76	36.33
Ĭ	24-40	17.00		0.83	0.86	13.14	15.38	11.96	144.34		-14.88	-12.58	253.80	152.18	146.14

		TECHI	•	MAX = / ACTIVE		MOST					SHI			
00-18	0.74	0.72	0.73	0.77	0.75	0.71	0.73	1.43	1.56	2.04	1.38	1.41	1.32	1.41
18-24	0.82	0.79	0.78	0.85	0.83	0.81	0.82	1.13	1.22	1.22	0.84	1.11	1.03	1.05
24-40	0.92		0.93	1.00	0.93	0.91	0.93	0.8		0.92	0.67	0.63	0.81	0.73
			OVERA	LL INDI	CATOR									
00-18	2	1	2	2	2	2	2							
18-24	2	1	2	3	2	2	2							
24-40	3		2	2	3	3	3							

**00-18 metres:** The segment comprised 101 full-time vessels (3 fewer than the previous year), mainly using small-scale gear and bottom-set longlines. The <u>economic indicators</u> display improved short- and long-term profitability leading to a consolidated economic balance. The <u>technical indicator</u> shows low exploitation of the fishing ground, with many vessels (42) active for fewer than 90 days (these are not taken into account in the plan), which indicates low efficiency in exploitation of the fishing ground. The biological indicator is out of balance although it has improved since 2016. Nevertheless, this improvement is in some respects fictitious given that dependency on mackerel, Southern hake and bigeye tuna (which are overexploited species) has increased, although FMSY has improved in the case of bigeye tuna, bringing down the SHI value slightly. **Continuing with the action plan is recommended.** 

	TOT VAL									
LENGTH	SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	F etoile2	overexploited stock	INDICATOR	stock assess	overexploited
		<u> </u>	0	2014 SHI			300			o o o o o o o o o o o o o o o o o o o
				AO-ALB-N	1,227,978	<u> </u>	FALSE			
				AO-BET	43,779	0.95	FALSE			
		ις.		AO-SWO-N	•	0.82	FALSE			
	6,772,907	11,778,706	%8	hke-nrtn	147,695	1.26	TRUE			_
00-18	772,	778	57.08%	hke-soth	3,437,049	2.84	TRUE	2.04	8	5
	.′9	11,	Ľ	lin-comb	493	1.08	TRUE			
				mac-nea	1,850,264	1.54	TRUE			
				whb-comb	13,734	1.43	TRUE			
				2015 SHI	HOOKS	CNW				
				AO-ALB-N	2,371,807	0.54	FALSE			
				AO-BET	178,481	1.28	TRUE			
				hke-nrtn	49,346	0.79	FALSE			
	84	.21		hke-soth	2,933,399	2.10	TRUE			
00-18	7,014,784	22,1	54%	lin-comb	678	1.08	TRUE	1.38	9	7
	7,01	12,922,121	2	mac-nea	1,461,212	1.31	TRUE			
		<b>\</b> 1		sol-bisc	31	1.34	TRUE			
				whb-comb	19,805	1.45	TRUE			
				whm-27	25	1.63	TRUE			
				2016 SHI	HOOKS	CNW				
				AO-ALB-N	2,529,988	0.54	FALSE			
				AO-BET	209,606	1.28	TRUE			
				dgs.27.nea	70	0.48	FALSE			
	īυ	99		hke-nrtn	111,045	0.96	FALSE			
00-18	7,17	.0,1!	58.58%	hke-soth	2,888,323	2.27	TRUE	1.41	9	5
00 10	7,487,175	14,240,156	58.	hom-west	25	0.97	FALSE	1.71	,	
		1,		mac-nea	1,731,204	1.31	TRUE			
				sol.27.8ab	493	1.1	TRUE			
				whb.27.1-	16,420	1.21	TRUE			
				912		<b></b>				
				2017 SHI		_				
				AO-ALB-N	2,847,669		FALSE			
				AO-BET	374,424		TRUE			
				hke-nrtn	121,091		FALSE			
	778	388	%	hke-soth	3,016,688		TRUE			
00-18	8,4568,778	15,112,388	56.04%	hom-west		0.97	FALSE	1.32	9	4
	8,45	15,1	56	mac-nea	2,094,802		TRUE			
				sol.27.8ab		0.91	FALSE			
				swo-na whb.27.1-	13,460	0.78	FALSE			
				912	15,400	1.20	TRUE			
				J12		<u> </u>				

**18-24 metres:** This segment comprises 29 vessels (4 fewer than in 2016), mainly bottom longliners and some purse seiners (4) which fish for bonito in the coastal fishery. The <u>economic</u> indicator shows that both short- and long-term profitability recovered and the overall indicator was balanced. In <u>technical</u> terms, fishing ground exploitation decreased slightly in comparison to 2016, showing a slight imbalance. The <u>biological situation</u> improved in comparison with the previous year, although the indicator continued to

show a slight imbalance with lower dependency on bigeye tuna, blue whiting and Southern hake and increased dependency on mackerel. In relation to dependency on stocks that are not overexploited, there was increased fishing for coastal bonito and Northern hake, species whose stocks are at healthy levels. **Continuing with the action plan is recommended.** 

	TOT VAL SURVEYED									
LENGTH	STOCK	TOT VAL STRATUM					overexploited stock	INDICATOR	stock_assess	overexploited
			20	014 SHI HC	OKS CN	W				
				AO-ALB-N	4,715,825	0.72	FALSE			
				AO-BET	3,177	0.95	FALSE			
	533	821	%8	hke-nrtn	8,418	1.26	TRUE			
18-24	7,502,533	9,287,821	80.78%	hke-soth	1,134,893	2.84	TRUE	1.22	7	5
	7,5	9,2,	98	lin-comb	64	1.08	TRUE			
				mac-nea	1,631,076	1.54	TRUE			
				whb-comb	9,080	1.43	TRUE			
			20	015 SHI HC	OKS CN	W				
				AO-ALB-N	4,274,493	0.54	FALSE			
				AO-BET	26,381	1.28	TRUE			
	231	972	٠.0	HAD-SOTH	155	2.84	TRUE			
18-24	5,959,231	8,068,972	74%	hke-soth	652,874	2.10	TRUE	0.84	7	6
	7,9	8,00		lin-comb	31	1.08	TRUE			
	_,			mac-nea	996,265	1.31	TRUE			
				whb-comb	9,031	1.45	TRUE			
			20	016 SHI HC	OKS CN	W				
				AO-ALB-N	3,730,556	0.54	FALSE			
				AO-BET	112,441	1.28	TRUE			
	6	9,	٠.0	AO-BFT-E	1,157	0.34	FALSE			
18-24	20,02	3,07	%91	AO-YFT	1,759		FALSE		8	4
10-24	6,876,029	9,398,076	73.16%	hke-nrtn	551	0.96	FALSE	1.11	0	4
	6,	6		hke-soth	1,560,603	2.27	TRUE			
				mac-nea	1,455,485	1.31	TRUE			
				whb.27.1-912	13,478	1.21	TRUE			
			20	017 SHI HC	OKS CN	W				
				AO-ALB-N	4,008,696	0.54	FALSE			
				AO-BET	81,684	1.28	TRUE			
	2	∞		hke-nrtn	2,625	0.79	FALSE			
	, 4C	,318	2%	hke-soth	1,373,204	2.1	TRUE		_	_
18-24	7,2264,402	9,216,318	78.82%	mac-nea	1,782,666	1.31	TRUE	1.03	8	5
	7,7	6		pil-27.8c9a	3,491	1.7	TRUE			
				swo-na	28	0.78	FALSE			
				whb.27.1-912	12,007	1.26	TRUE			

**24-40 metres:** This segment comprises 25 vessels using small-scale gear, bottom-set longlines, purse seines, fixed gillnets and bottom-set gillnets. Half of this segment (which in the previous year comprised 50 vessels) has moved into the purse seine segment as the majority of their activity involved this method; consequently, short-term profitability improved this year since there were fewer vessels, and the <u>economic</u> indicators continue to show the segment in balance.

The <u>technical</u> indicators were unchanged in this fleet and its <u>SHI</u> reveals a balanced segment due to its predominant dependency on ALB, a species in balance. **No action plan is required.** 

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	F_etoile2	Overexploited stock	INDICATOR	stock_assess	overexploited
				2014 SHI H	OOKS CN	W				
24-40	5,142,864	6,646,340	77.38%	AO-ALB-N	3,894,472	0.72	FALSE	0.92	1	0
				2015 SHI H	OOKS CN	W				
	_			AO-ALB-N	2,898,859	0.54	FALSE			
24.40	,344	,311	%92	AO-BET	6,458	1.28	TRUE			2
24-40	3,459,344	4,546,311	7(	hke-soth	1,651	2.10	TRUE	0.67	4	3
	m	4		mac-nea	552,375	1.31	TRUE			
				2016 SHI H	OOKS CN	W				
				AO-ALB-N	23,511,019	0.54	FALSE			
				AO-BET	542,125	1.28	TRUE			
	44	99		AO-BFT-E	4,222,873	0.34	FALSE			
24-40	32,256,044	45,091,566	71.53%	hke-soth	317,365	2.27	TRUE	0.63	7	4
	12,25	5,06	71.	hom-west	156,972	0.97	FALSE			-
	m	4		mac-nea	3,505,476	1.31	TRUE			
				whb.27.1-	214	1.21	TRUE			
				912 <b>2017 SHI H</b>	OOKS CN	1\A/				
				AO-ALB-N	10,906,735		FALSE			
				AO-BET	617,387		TRUE	_		
				AO-BFT-E	1,042,829		FALSE	-		
	,920	693	<b>%</b> (	hke-soth	99,097		TRUE			
24-40	15,528,920	20,515,693	75.69%	hom-west	9,142	0.97	FALSE	0.81	8	5
	15	20,	, ,	mac-nea	2,463,036	1.31	TRUE			
				pil-27.8abd	324,042	6.34	TRUE			
				pil-27.8c9a	66,651.99	1.7	TRUE			

An action plan is recommended based on biological conditions for the 00-18 and 18-24 fleet segments using hooks in CNW due to their dependency on overexploited stocks.

## **DREDGERS (CNW)**

This segment comprises a total of 1,058 vessels, mainly shellfish harvesters from Galicia, along with another 727 vessels in the segment that do not reach activity levels of 90 days/year. Profitability continues to be balanced despite a sharp drop in short- and long-term profitability caused by a considerable increase in costs compared to revenue. It was not possible to assess the <u>biological indicator</u> due to the lack of scientific surveys of the species caught. The imbalance in this fleet is a <u>technical</u> one caused by low exploitation of the fishing ground. Taking into account the STECF reports that have reiterated since 2015 that low exploitation of fishing grounds by the artisanal fleet cannot be attributed to an imbalance between capacity and opportunities, this segment is considered to be in balance.

			CR/	BER					RoFTA (%)		
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017

es	00-18	-8.14	9.92	11.58	1.33	4.58	-120.73	214.59	93.25	4.28	47.71
b be		TE	CHNICAL (M.	AX = AV. 10	MOST ACTIV	VE)		OVE	RALL INDICA	ATOR	
۵	00-18	0.70	0.63	0.66	0.69	0.68	1	2	2	2	2

### **VESSELS USING POTS (CNW)**

In total, 110 small-scale vessels measuring up to 18 metres fished full-time using pots and traps. Profitability over the short term worsened but there was an improvement in long-term profitability. Exploitation of the fishing ground continues to be slightly out of balance, and in biological terms the segment does not depend on surveyed stocks. As a precautionary measure, in 2015 this segment was classified as out of balance despite economic improvements that have since been consolidated following two years of profitability, which now allows us to conclude that this segment of the fleet is **in balance**.

				CR/	BER							RoFTA (%	)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	00-18	-0.42	0.34	-0.37	1.73	6.41	4.97	4.35	-72.78	-15.47	-54.37	20.05	36.96	69.09	41.93
Pots			TECHNI	CAL (MA	X = AV. 1	0 MOST	ACTIVE)				OVER	ALL INDIC	CATOR		
_	00-18	0.76	0.73	0.78	0.77	0.85	0.77	0.79	1	1	1	3	3	3	3

### **POLYVALENT VESSELS (CNW)**

Of the 1,751 vessels operating in the fishery, 924 were polyvalent (including 7 that were over 18 metres in length but are included in the cluster with those under 18 metres) and operated full-time, revealing the high proportion of fishermen working part-time and very low exploitation of the fishing ground. The economic profitability that began in 2015 was consolidated, resulting in an economic indicator in balance and no dependency on overexploited stocks. Similarly to trawlers, the imbalance in this fleet is a technical one caused by low exploitation of the fishing ground. Taking into account the STECF reports that state that low exploitation cannot be attributed to an imbalance between capacity and opportunities, this segment is considered to be in balance.



# **GULF OF CÁDIZ**

# TRAWLERS (GC)

This segment comprises 124 vessels, of which 118 operate full-time - 52 in the 00-18 class and 66 in the 18-40 class. The three trawlers measuring around 25 metres have been included in the < 40 metre class.

				CR/	BER							RoFTA (%	5)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	00-18	4.02	-0.64	0.81	7.38	2.81	3.56	3.55	153.22	-135.95	-7.91	32.80	165.50	38.46	63.35

18-40	0.46	0.49	0.82	1.28	3.97	2.75	2.64	-44.47	-13.25	-4.78	11.76	258.20	62.41	97.34
		TECHNI	ICAL (MA	X = AV. 1	.0 MOST	ACTIVE)				OVER	ALL INDI	CATOR		
00-18	0.92	0.88	0.91	0.88	0.91	0.88	0.89	3	1	2	3	3	3	3
18-40	0.84	0.85	0.86	0.88	0.89	0.86	0.87	1	1	1	3	3	3	3

The segment's economic performance was good, maintaining the balance observable since 2015 and stable exploitation of the fishing ground. The percentages of surveyed species caught by this fleet did not reach 40%, and so it has not been possible to assess the biological indicator or whether catches of SAR represented more than 10% of the fleet's total catch.

Both segments are in balance.

### **PURSE SEINERS (GC)**

This segment comprises 81 vessels, of which 72 operate full-time - 42 in the 00-18 class and 30 in the 18-40 class. The four trawlers measuring around 25 metres have been included in the < 40 metre class.

			CR/	BER				ŀ	RoFTA (%)		
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017
	00-18	4.34	3.39	7.25	0.79	3.09	48.04	218.55	132.53	-12.22	61.17
	18-40	1.60	0.63	6.35	0.72	2.27	18.24	-25.64	97.32	-20.57	12.78
		TECHNI	CAL (MA	X = AV. 1	0 MOST	ACTIVE)		SA	AR		
Se	00-18	0.77	0.84	0.84	0.74	0.78	PIL-27.9.a	PIL-27.9.a	PIL-27.9.a	PIL-27.9.a	
seines	18-40	0.83	0.98	0.89	0.80	0.85	PIL-27.9.a	PIL-27.9.a	PIL-27.9.a	PIL-27.9.a	
Purse			C	VERALL	INDICAT	OR					
Pı		2014	2015	2016	2017	2014- 2016	2014- 2017				
	00-18	3	3	3	1	3	3				_
	18-40	3	2	3	1	3	3				

<u>Economic</u> performance worsened in 2017 in both segments due to a considerable decrease in the fleet's revenue, recorded both in survey data and in the real value of landings, affecting both indicators (short-and long-term profitability), which display a clear imbalance for the first time since 2014.

The <u>technical indicator</u> shows homogeneous fishing ground exploitation, while in <u>biological</u> terms the segment does not reach 40% of surveyed species, although there is a high dependency on Iberian sardine stocks, which are caught in the Gulf of Cádiz, zone IXa, where the situation is classified as high risk (STECF 18-14, Balance Report), a fact that made it necessary for Spain and Portugal to approve a joint management plan.

While the number of vessels in the 00-18 class has decreased year-on-year, we can observe a slight increase in sardine catches in 2017, while in the same year in the 18-40 class there was a substantial decline in PIL catches, although these continued to account for more than 20% of the total catches, which determines the segment's SAR dependency.

			PURSE	SEINERS' (GC)	) DEPENDENCY O	N SARDINE STOCKS	COMPAR	ED TO TOTAL CA	ATCHES		
				2014	4				2015		
TYPE (CNW/GC)		VESSELS	TOT_WEIGHT	VESSELS_PIL		TOT_WEIGHT_PIL	VESSELS	TOT_WEIGHT	VESSELS_PIL		%_WEIGHT_PIL
GC	PS 00-18	51	9,357,310.25	48	3,554,872.47	37.99%	46	8,209,662.14	45	1,678,824.50	20.45%
GC	PS 18-40	27	6,129,907.24	25	1,784,436.24	29.11%	25	7,024,786.27	25	1,884,644.06	26.83%
				2010	5				2017		
TYPE (CNW/GC)	LENGTH CLASS			VESSELS_PIL					VESSELS_PIL		
		VESSELS	TOT_WEIGHT		WEIGHT_PIL	%_WEIGHT_PIL	VESSELS	TOT_WEIGHT		WEIGHT_PIL	%_WEIGHT_PIL
GC	PS 00-18	42	7,942,385.20	39	1,581,359.49	19.91%	37	5,118,398.40	36	1,688,085.03	32.98%
GC	PS 18-40	30	9,778,848.66	25	1,812,819.22	18.54%	27	5,943,752.52	25	1,350,335.15	22.72%

Despite the weighted indicator for 2017 being out of balance due to a poor economic situation in 2017 and SAR dependency, the total weight of PIL for this fleet diminished, and the overall indicator for the period analysed is in balance. An action plan is not recommended, although economic performance should be monitored and the sardine management plan continued.

### GILLNETTERS (GC)

In 2017, a total of 32 vessels were active in this segment (mainly using small-scale gear), of which 31 operated for more than 90 days of the year (30 in the 00-18 class, and 1 in the 18-24 class, which was classified in the 00-24 cluster). The segment's <u>economic indicators</u> maintained the good performance of the previous year, resulting in a balanced weighted indicator.

<u>Fishing ground exploitation</u> worsened slightly compared to 2016, although it remained in balance, and the segment <u>does not depend on SAR or at-risk stocks potentially requiring assessment</u>. Consequently, this segment can be considered to maintain a **balance** between capacity and fishing opportunities.

				CR/BER				RoFTA (%)					
Gear	Length	2014 2015 2016		2017	2014- 2017	2014	2015	2016	2017	2014- 2017			
ts.	00-24	7.08	-1.22	4.84	5.15	4.34	66.67	-54.61	68.10	98.50	67.86		
Ilnets		TECHN	ICAL (MA	X = AV. 10	MOST A	CTIVE)		OVER	ALL INDIC	ATOR			
<u>5</u>	00-24	0.87	0.88	0.85	0.79	0.82	3	1	3	3	3		

### DREDGERS (GC)

In 2017, a total of 127 vessels fished mainly with dredges, of which 94 vessels operated full-time, 7 more than the previous year. The economic situation was consolidated, although both short- and long-term profitability fell. In <u>technical</u> terms, there was a decrease in exploitation of the fishing ground resulting in an imbalance in the indicator. There was <u>no dependency</u> on surveyed stocks. **An action plan is not considered necessary** given that the imbalance is slight and is solely technical.

				CR/BER			RoFTA (%)					
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017	
0 D C	00-18	0.82	1.50	4.57	2.54	2.83	-10.71	14.83	46.90	23.24	26.16	

	TECHN	IICAL (MA	X = AV. 1	0 MOST A	CTIVE)		OVER	ALL INDIC	ATOR	
00-18	0.82	1.00	0.76	0.67	0.75	1	3	3	2	3

### POLYVALENT VESSELS (GC)

Of the 305 registered vessels that do not predominantly make use of one method in particular, only 134 operated full-time, typically in the artisanal fleet. The number of full-time vessels fell by 30 comparison with 2016 and the level of inactivity was higher, a change reflected in a worsening technical situation in terms of exploitation of the fishing ground.

			CR/	BER	RoFTA (%)						
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017
ŧ	00-18	1.60	7.71	3.98	3.07	3.83	11.17	127.50	42.72	46.18	53.77
lyvalent		TECHN	ICAL (MA	OVERALL INDICATOR							
Poly	00-18	0.72	0.75	0.74	0.66	0.70	3	3	3	2	3

The results for 2017 continue to show a **balance** for this fleet, with very low exploitation of the fishing ground but good profitability and no dependency on overexploited stocks requiring evaluation of the SHI since it is a multi-species fleet.

### MEDITERRANEAN NATIONAL FISHING GROUND

### TRAWLERS (MEDITERRANEAN)

The Mediterranean trawler fleet comprised 600 vessels in 2017, three fewer than the previous year. Of that number, 589 fished full-time. Inactivity in this fleet did not exceed 2%.

					CR/BER			RoFTA (%)							
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012-2017
	00-18	2.06	1.39	1.64	2.06	5.46	2.53	3.11	80.57	24.64	21.10	38.15	72.61	63.15	58.76
	18-24	0.91	2.02	1.32	1.37	3.75	1.91	2.26	-5.51	13.89	13.15	16.80	47.81	38.86	35.20
	24-40	0.94	-0.50	1.26	1.38	3.19	1.32	1.74	-1.52	-35.52	7.74	14.66	45.30	15.79	20.73
ets			TEC	HNICAL (	MAX = AV.	10 MOS	T ACTIV	E)				SHI			
trawl nets	00-18	0.81	0.82	0.82	0.82	0.82	0.82	0.82							
	18-24	0.76	0.75	0.77	0.78	0.77	0.76	0.76	5.24	5.22	5.31	4.28	3.96	4.08	4.21
Bottom	24-40	0.81	0.83	0.80	0.82	0.82	0.80	0.81	5.52	5.58	5.66	3.39	4.12	4.25	4.26
Bot					SAR						OVE	RALL IN	DICATO	R	
	00-18								3	3	3	3	3	3	3
	18-24								1	2	2	2	2	2	2
	24-40			hke-gs6	HKE-37.1.	HKE-37			1	1	2	2	2	2	2

**00-18 metres:** From the perspective of <u>economic profitability</u>, both short- and long-term profitability have been very good since 2012, although there was a decline in economic performance in 2017. <u>Operational capability</u> was stable and close to being in balance. In <u>technical</u> terms, of the 165 registered vessels, 160

operate full-time, continuing the downward trend in numbers of years past. Fishing ground exploitation is close to being in balance at 180 days/year, while in <u>biological</u> terms the segment does not show a dependency on overexploited species for more than 40% of its catches, given that many of the species it fishes have not been surveyed. However, the fleet does fish for species such as hake, red mullet and Norway lobster, which are clearly overexploited, although in 2017 there was a decrease in days of fishing effort. Following the indicator guidelines, this **segment is in balance**.

**18-24 segment:** In <u>economic terms</u>, this segment consolidated its economic performance following the improvement that began in 2013, although a slight contraction can be observed compared with the very positive economic figures of 2016. <u>Operational capability</u> was slightly unbalanced, given that it is a segment where the majority of vessels operate full-time (300 full-time vessels of a total of 303 active vessels). The <u>biological indicators</u> show a dependency on overexploited stocks greater than the previous year caused by a worsening F/FMSY ratio of highly overexploited species and an increase in 2017 of catches of deepwater rose shrimp and hake, despite a decrease in Aesop shrimp, giant red shrimp and red mullet.

**Continuing with the action plan is recommended** given this dependency on overexploited species.

			20	TERRANE	AN					
	TOT VAL SURVEYED	TOT VAL	PER				overexploited			
LENGTH	STOCK	STRATUM	CENT	FISHSTOCK	STOCK VAL	F_etoile2	stock	INDICATOR	stock_assess	overexploited
				anb-gsa06	4		TRUE			
				ane-gsa01	503		TRUE			
				ane-gsa06	64,073		FALSE			
				ank-gsa05	27,878		TRUE			
				ank-gsa06	112,783	6.5	TRUE			
				ank-gsa07	316	3.3	TRUE			
				ara-gsa01	4,052,217	1.8	TRUE			
				ara-gsa05	2,747,706	1	TRUE			
				ara-gsa06	9,017,867	1.31	TRUE			
				ara-gsa09	89,583	1.97	TRUE			
				ars-	67,308	1.5	TRUE			
				gsa10_11						
				CTC-	13,857	1.1	TRUE			
				GSA05						
				dps-gsa01	1,181,645	1.6	TRUE			
				dps-gsa05	28,657		TRUE			
				dps-gsa06	25,683,311		TRUE			
				hke-gsa01	718,430		TRUE			
				hke-gsa05	393,675		TRUE			
	09	86		hke-gsa06	5,747,470		TRUE			
18-24	1,8	5,2	61.95%	hke-gsa07	552,003		TRUE	4.28	34	32
	61,208,160	98,805,298	61.	mulbar-	256,363	4.9	TRUE	0	0.	<b>5</b> 2
	9	6		gsa01 mulbar-	70,958	6.2	TRUE			
				gsa05	70,936	0.2	INUE			
				mulbar-	2,171,254	1 24	TRUE			
				gsa06	2,272,23		11.02			
				mulbar-	106,216	3.2	TRUE			
				gsa07						
				mur-	229,180	3.8	TRUE			
				gsa05						
				nep-gsa01	1,031,984		TRUE			
				nep-gsa05	374,231		TRUE			
				nep-gsa06	5,127,221		TRUE			
				occ-gsa05	326,232		TRUE			
				pil-gsa01	3,030		FALSE			
				pil-gsa06	51,679		TRUE			
				sbr-gsa01	48,072		TRUE			
				swo-med	323		TRUE			
				whb-	252,118	4	TRUE			
				gsa01	655		<b></b>			
				whb-	660,013	9.5	TRUE			
				gsa06						

SURVEYED   TOT VAL   PER   STRATUM   CENT   FISHSTOCK   STOCK VAL   F_etoile2   Stock   INDICATOR   STOCK_assess   Overexploited   INDICATOR   STOCK_assess   Overexploited   INDICATOR   STOCK_assess   Overexploited   INDICATOR   STOCK_assess   Overexploited   Indicator   Indic	oloited
ane- gsa06  ank- gsa05  ank- gsa06  ank- gsa06  ank- gsa06  ara- gsa01  ara- 3,112,547  1.01 TRUE	pioitec
gsa06 ank- gsa05 ank- 13,254 7.63 TRUE gsa05 ank- 110,584 6.49 TRUE gsa06 ara- gsa01 ara- 3,617,247 1.87 TRUE	
ank- gsa05 ank- 110,584 6.49 TRUE gsa06 ara- gsa01 ara- 3,112,547 1.01 TRUE	
gsa05 ank- gsa06 ara- gsa01 ara- 3,112,547 1.01 TRUE	
ank- 110,584 6.49 TRUE gsa06 ara- 3,617,247 1.87 TRUE gsa01 ara- 3,112,547 1.01 TRUE	
gsa06 ara- gsa01 ara- 3,112,547 1.01 TRUE	
ara- 3,617,247 1.87 TRUE gsa01 ara- 3,112,547 1.01 TRUE	
gsa01 ara- 3,112,547 1.01 TRUE	
ara- 3,112,547 1.01 TRUE	
ara- 7,785,608 2.43 TRUE	
gsa06	
ara- 141,445 0.84 FALSE	
gsa09	
bss- 462 3.94 TRUE	
gsa07	
CTC- 38,752 1.1 TRUE	
GSA05	
dps- 1,282,494 0.9 FALSE	
gsa01	
dps- 3,844,983 2.29 TRUE	
gsa06	
hke- 675,994 7.5 TRUE	
gsa01	
18-24	
18-24 89 86 86 86 86 86 86 86 86 86 86 86 86 86	7
8	
gsa06	
hke- 337,833 11.6 TRUE	
gsa07	
hke-soth 44 2.27 TRUE	
mon- 2,465,341 2.05 TRUE	
gsa01_05	
mur- 250,333 3.49 TRUE	
gsa05	
mut- 356,629 4.84 TRUE	
gsa01	
mut- 2,610,528 1.56 TRUE	
mut- 94,773 2.26 TRUE	
gsa07	
nep- 309,726 1.69 TRUE	
gsa05	
nep- 4,282,923 9.49 TRUE	
gsa06	
occ- 459,366 1.5 TRUE	
gsa05	
pil-gsa01 1,677 1.26 TRUE	
pil-gsa06 31,482 3.71 TRUE	
sbg- 10,749 2.37 TRUE	
gsa07	

sol-gsa07	1,675	7.41	TRUE	
swo-med	215	1.82	TRUE	
whb-	585,093	7.88	TRUE	
gsa06				

				<b>2017</b> SHI	I TRAWLE	RS M	EDITERRA	ANEAN		
LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	_		INDICATOR	stock_ass	ess overexploited
				ane-gsa06	51,187	1.19	TRUE			
				ank-gsa05	15,274	7.63	TRUE			
				ank-gsa06	227,156	6.49	TRUE			
				AO-ALB-M	4	0.83	FALSE			
				ara-gsa01	3,477,435	1.87	TRUE			
				ara-gsa05	3,545,682	1.48	TRUE			
				ara-gsa06	8,840,559	2.43	TRUE			
				ara-gsa09	41,329	0.84	FALSE			
				ars-	30,661	1.51	TRUE			
				gsa09_10_						
				bss-gsa07	106	3.94	TRUE			
				dps-gsa01	1,699,909	0.9	FALSE			
				dps-gsa05	338,195	1.09	TRUE			
				dps-gsa06	5,496,909	2.29	TRUE			
	11	21		hke-gsa01	1,223,886	7.95	TRUE			
18-24	1,56	5,46	46.49%	hke-gsa05	312,279	8.05	TRUE	4.08	30	27
10-24	42,931,561	92,345,461	46.4	hke-gsa06	5,924,572	7.8	TRUE	4.08	30	27
	4	9.		hke-gsa07	354,753	12.4	TRUE			
				mon- gsa01_05	2,504,284	2.05	TRUE			
				mur-gsa05	435,230	2.57	TRUE			
				mut-gsa01	422,302	4.84	TRUE			
				mut-gsa06	2,607,940		TRUE			
				mut-gsa07	117,457	3	TRUE			
				nep-gsa05	322,922		TRUE			
				nep-gsa06	4,268,331		TRUE			
				pil-gsa01	3,129		TRUE			
			pil-gsa06	36,560		TRUE				
				sbg-gsa07	2,030		TRUE			
				sol-gsa07	1,658		TRUE			
				swo-med	841		TRUE			
				whb- gsa06	628,979	7.88	TRUE			

**24-40 segment:** In <u>economic terms</u>, this segment displayed high profitability as of 2014, although performance worsened in 2017, as in other segments. <u>Operational capability</u> was stable and close to being in balance. Of 132 active vessels, 129 operated full-time and 2 were inactive. We must take into account that this fleet includes vessels that fish in the Mediterranean but outside the national fishing ground, increasing the average for the 10 vessels engaged in the greatest effort. In <u>biological</u> terms, the segment depends on overexploited species. The indicator shows an increasing imbalance as of 2015 with a

dependency on 26 overexploited stocks. Despite a fall in catches of Aesop shrimp and giant red shrimp, catches of hake and deepwater rose shrimp increased.

				2015 S	HI TRAWL	ERS M	EDITERRA	ANEAN				
	TOT VAL											
LENGTH	SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	F_etoile2	overexploited stock	INDICATOR	stock_assess	overexploited		
				ane-	140.02		TRUE		_			
				gsa01								
				ane-	222,139.87	0.89	FALSE					
				gsa06								
				ank-	79	1.6	TRUE					
				gsa01								
				ank-	92,994	6.5	TRUE					
				gsa06 ank-	133	2.2	TRUE					
				gsa07	155	3.3	INOL					
				ara-	2,365,835	1.8	TRUE					
				gsa01	2,303,033	2.0						
				ara-	1,276,990	1	TRUE					
				gsa05								
					ara-	12,584,440	1.31	TRUE				
				gsa06								
				CTC-	2,111	1.1	TRUE					
				GSA05	200 440	4.5						
						dps-	289,419	1.6	TRUE			
					gsa01 dps-	13,740	1 2	TRUE				
				gsa05	13,740	1.2	TROL					
	2	7		dps-	927,768	5.48	TRUE					
24-40	29,390,352	45,378,377	7%	gsa06	,			2.20	22	20		
24	)68'	,378	64.77%	hke-	299,846	7.5	TRUE	3.39	32	30		
	29	45		gsa01								
				hke-	109,423	7.9	TRUE					
				gsa05								
				hke-	5,099,351	7.8	TRUE					
				gsa06 hke-	513,230	12 Ω	TRUE					
				gsa07	313,230	12.0	INOL					
				hke-	3	2.1	TRUE					
				soth								
				mulbar-	64,622	4.9	TRUE					
				gsa01								
				mulbar-	9,808	6.2	TRUE					
				gsa05								
				mulbar-	1,299,122	1.24	TRUE					
				gsa06	04.405	2.2	TDUE					
		1 60 1	mulbar- gsa07	84,495	3.2	TRUE						
			mur-	24,383	2 2	TRUE						
			gsa05	24,303	3.0							
			nep-	151,241	1.6	TRUE						
			gsa01	, , , , , , , , , , , ,								
			nep-	91,495	1.7	TRUE						
			gsa05									

nep- gsa06	2,911,437.2	3.93	TRUE		
occ- gsa05	15,239	1.5	TRUE		
pil- gsa01	1,474	0.66	FALSE		
pil- gsa06	108,807.54	1.68	TRUE		
sbr- gsa01	23,169	1.72	TRUE		
swo- med	157	2.97	TRUE		
whb- gsa01	47,531.87	4	TRUE		
whb- gsa06	759,729.61	9.5	TRUE		

				2016 SH	I TRAWLE	RS M	EDITERRA	ANEAN																
	TOT VAL SURVEYED	TOT VAL	DED				overexploited stock		stock_assess	overexploited														
LENGTH				FISHSTOCK	STOCK VAL	F_etoile2		INDICATOR																
				ane-	56,364	0.89	FALSE																	
				gsa06																				
				ank-	360	7.63	TRUE																	
				gsa05	116.067	C 40	TDUE																	
				ank- gsa06	116,067	6.49	TRUE																	
				ara-gsa01	2,050,838	1.87	TRUE																	
				ara-gsa05	853,180		TRUE																	
				ara-gsa06	11,014,140	2.43	TRUE																	
							CTC-	4,738	1.1	TRUE														
								1	GSA05															
				dps-	191,696	0.9	FALSE																	
				gsa01																				
				dps-	1,699,456	2.29	TRUE																	
				gsa06	400 200	7.5	TDUE																	
				hke- gsa01	188,308	/.5	TRUE																	
				hke-	111,141	8.05	TRUE																	
				gsa05		0.00																		
				hke-	4,510,935	7.71	TRUE																	
	22	52	43,374,652	43,374,652	62.97%	62.97%	62.97%	62.97%	2.97%	%	7%	7%	2%	2%	%/	2%	2%	gsa06						
24-40	1,42	4,65								hke-	477,034	11.6	TRUE	4.12	26	24								
24	27,311,422	3,37							gsa07				7.12	20	24									
	2	4					mon-	1,104,868	2.05	TRUE														
				gsa01_05	F0.02C	2.40	TDUE																	
				mur- gsa05	50,026	3.49	TRUE																	
				mut-	10,994	4.84	TRUE																	
				gsa01	ŕ																			
				mut-	1,526,209	1.56	TRUE																	
				gsa06																				
				mut-	77,759	2.26	TRUE																	
				gsa07																				
				nep-	137,616	1.69	TRUE																	
				gsa05 nep-	2,440,069	9 49	TRUE																	
				gsa06	2,110,003	3.13																		
				occ-gsa05	19,779	1.5	TRUE																	
				pil-gsa01	338	1.26	TRUE																	
			5	pil-gsa06	20,238	3.71	TRUE																	
				sbg-gsa07	145	2.37	TRUE																	
				sol-gsa07	196	7.41	TRUE																	
				whb-	648,929	7.88	TRUE																	
				gsa06																				
				2017 SH	I TRAWLE	RS M		ANEAN	T															
	TOT VAL SURVEYED	TOT VAL STRATUM	PFR				overexploited stock		stock_assess	overexploited														
ENGTH				FISHSTOCK	STOCK VAL	F_etoile2		INDICATOR																
24- 40	64 2,1	99, 51	.4 5	ane-	60,813	1.19	TRUE	4.25	28	26														

	gsa06					
	ank-	236	7.63	TRUE		
	gsa05					
	ank-	184,833	6.49	TRUE		
	gsa06					
	AO-ALB-	2	0.83	FALSE		
	М					
	ara-gsa01	1,600,442	1.87	TRUE		
	ara-gsa05	1,335,428	1.48	TRUE		
	ara-gsa06	11,600,658	2.43	TRUE		
	bss-gsa07	218	3.94	TRUE		
	dps-	239,160	0.9	FALSE		
	gsa01					
	dps-	132,391	1.09	TRUE		
	gsa05					
	dps-	2,405,963	2.29	TRUE		
	gsa06					
	hke-	366,111	7.95	TRUE		
	gsa01					
	hke-	66,155	8.05	TRUE		
	gsa05	4 002 626	7.0	TDUE		
	hke- gsa06	4,992,626	7.8	TRUE		
	hke-	470,307	12.4	TRUE		
	gsa07	470,307	12.7	INOL		
	mon-	1,133,771	2.05	TRUE		
	gsa01_05					
	mur-	70,595	2.57	TRUE		
	gsa05					
	mut-	26,619	4.84	TRUE		
	gsa01					
	mut-	1,566,674	3.05	TRUE		
	gsa06	70.55		TD1:5		
	mut-	78,651	3	TRUE		
	gsa07 nep-	58,194	1 60	TRUE		
	gsa05	30,134	1.03	INOL		
	nep-	2,616,034	9 49	TRUE		
	gsa06	2,010,004	5.45			
	pil-gsa01	406	1.26	TRUE		
	pil-gsa06	39,778		TRUE		
	sbg-	2,103		TRUE		
	gsa07	2,100	,			
	sol-gsa07	92	7.41	TRUE		
	swo-med	734.78		TRUE		
	whb-	593,181.44		TRUE		
	gsa06					
 	•					

In relation to the SAR indicator for 2017, the STECF has not identified any species fished by trawlers, and so none has been considered for this year.

Based on this analysis, it would be advisable to take measures to restore balance in the 18-24 metre and 24-40 metre segments.

### **PURSE SEINERS (MEDITERRANEAN)**

In 2017, the Mediterranean purse seiner fleet comprised 216 vessels, of which 201 operated full-time and just 15 had a low level of activity. This figure includes the 6 bluefin tuna purse seiners not studied in the action plan since they operated for fewer than 90 days/year. Inactivity in this fishing method stood at 6%.

					CR/BER						R	oFTA (	%)			
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017	
	00-18	9.02	8.71	6.43	3.73	3.88	3.59	4.11	987.07	294.61	137.75	82.11	73.54	69.38	98.11	
	18-24	2.18	6.45	3.19	2.68	4.02	2.26	2.95	46.76	73.01	85.67	29.86	49.02	42.97	46.57	
	24-40	0.86	0.77	1.22	1.58	2.56	2.78	2.38	-4.24	-8.06	10.51	37.34	100.25	115.34	89.13	
			TE	CHNICAL (	MAX = AV. 10	MOST ACT	TIVE)		SHI							
seines	00-18	0.79	0.83	0.85	0.81	0.82	0.85	0.84	1.04	1.26	1.10	1.13	1.76	1.56	1.51	
	18-24	0.87	0.87	0.88	0.86	0.88	0.87	0.87	1.08	1.22	1.17	1.2	1.67	1.55	1.49	
Purse	24-40	0.94	0.94	0.98	0.91	0.95	0.97	0.96	0.89	1	1.03	1.1	1.44	1.38	1.32	
٦ ا					SAR						OVER/	ALL IND	ICATOR			
	00-18			PIL -gs6	PIL-37.1.1	PIL-GSA6			2	1	2	2	2	2	2	
	18-24			PIL -gs6	PIL-37.1.1	PIL-GSA6			2	1	2	2	2	2	2	
	24-40			PIL -gs6	PIL-37.1.1	PIL-GSA6	•		2	1	3	3	2	2	2	

In <u>economic terms</u>, the **length class up to 24 metres** displayed consolidated short- and long-term profitability during the period under examination, albeit with a downward trend but always remaining in balance. The **24-40 metre purse seiner** segment (20 vessels), which was clearly out of balance up to 2013, showed good profitability over the short and long term in 2014, with performance increasing year-on-year, including in 2017.

<u>Operational capability</u> was in balance and fairly uniform for all segments during the four years analysed, with a positive trend towards balance in all length classes, with low levels of inactivity or vessels not operating full-time.

In relation to <u>biological indicators</u>, the worst figure from the scientific studies concerns anchovy in zone GSA 06, which became an overexploited species; this is mitigated by the best figure — for sardines in the same zone, GSA 06 — for which the F/FMSY was reduced. This, along with a general reduction in the percentage of dependency on surveyed stocks yielded a slight improvement in the indicators within an overall imbalance.

This fleet does not fish for any of the species identified as being at high risk by the STECF, given that these no longer include sardine in zone GSA 06.

Based on these results, it is advisable to continue with the measures put in place to ensure the recovery of a biological balance in the whole of the Mediterranean purse seiner fleet, while monitoring of anchovy and sardine fishing in the zones GSA 06 and GSA 01 is also recommended.

	TOT VAL	TOT VAL					overexploited		stock_assess	overexploited
LENGTH	SURVEYED STOCK	STRATUM		FISHSTOCK	STOCK VAL	F etoile2	stock	INDICATOR		
ELIVOIII	310ck			<u> </u>	URSE SEI		l			
	<u> </u>			anb-	1		TRUE	117 11 127	•••	
				gsa06	_	4.0	TROL			
				ane-	1,527,997	2.26	TRUE			
				gsa01	, , , , , , ,					
				ane-	5,219,081	0.89	FALSE			
				gsa06						
				AO-BFT-E	77,612		FALSE			
				CTC-	5	1.1	TRUE			
				GSA05 hke-	220	7.5	TDLIF			
		.0		gsa01	220	7.5	TRUE			
	15,824,707	23,679,136	3%	hke-	1,556	7.9	TRUE			
00-18	824	629	66.83%	gsa05	_,,,,,	7.0		1.13	14	11
	15,	23,	9	hke-	115	7.8	TRUE			
				gsa06						
				mulbar-	519	4.9	TRUE			
				gsa01						
				mulbar-	115	1.24	TRUE	_		
				gsa06 pil-gsa01	5,290,191	0.66	FALSE			
				pil-gsa01	3,699,630		TRUE			
				sbr-gsa01	7,510		TRUE			
				whb-	156		TRUE			
				gsa06						
			20	16 SHI P	URSE SEI	NERS	MEDITER	RANEA	N	
				ane-	6,235,925	0.89	FALSE			
				gsa06						
				AO-ALB-	2,109	0.83	FALSE			
				M	222 724		54105			
				AO-BFT-E			FALSE			
				hke- gsa01	61	7.5	TRUE			
	900	82	%	hke-	15	7 71				
00-18	11,9	8,28				7.71	TRUF			
	141,9	88	.50	gsa06		7.71	TRUE	1.76	10	7
	15,04	3,688,	63.50%	gsa06 mon-	6,568		TRUE TRUE	1.76	10	7
	15,041,906	23,688,282	63.50		6,568	2.05	TRUE	1.76	10	7
	15,04	23,688,	63.50	mon- gsa01_05 mut-	6,568	2.05		1.76	10	7
	15,04	23,688	63.50	mon- gsa01_05 mut- gsa01	1,292	2.05	TRUE TRUE	1.76	10	7
	15,04	23,688,	63.50	mon- gsa01_05 mut- gsa01 mut-		2.05	TRUE	1.76	10	7
	15,04	23,688	63.50	mon- gsa01_05 mut- gsa01 mut- gsa06	1,292 111	2.05 4.84 1.56	TRUE TRUE	1.76	10	7
	15,04	23,688	63.50	mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01	1,292 111 4,317,615	2.05 4.84 1.56 1.26	TRUE TRUE TRUE TRUE	1.76	10	7
	15,04	23,688		mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06	1,292 111 4,317,615 4,138,429	2.05 4.84 1.56 1.26 3.71	TRUE TRUE TRUE TRUE TRUE			7
	15,04	23,688		mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06	1,292 111 4,317,615	2.05 4.84 1.56 1.26 3.71 NERS	TRUE TRUE TRUE TRUE TRUE			7
				mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06	1,292 111 4,317,615 4,138,429 PURSE SEI	2.05 4.84 1.56 1.26 3.71 NERS	TRUE TRUE TRUE TRUE TRUE TRUE TRUE			7
			20	mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06	1,292 111 4,317,615 4,138,429 PURSE SEI	2.05  4.84  1.56  1.26  3.71  NERS  1.19	TRUE TRUE TRUE TRUE TRUE TRUE TRUE			
00-18			20 %29	mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06 <b>17 SHI P</b> ane- gsa06 AO-ALB- M	1,292 111 4,317,615 4,138,429 PURSE SEI 6,331,941 21,127	2.05 4.84 1.56 1.26 3.71 NERS 1.19 0.83	TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE			9
00-18	785	24,911,462	20	mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06 <b>17 SHI P</b> ane- gsa06 AO-ALB- M	1,292 111 4,317,615 4,138,429 PURSE SEI 6,331,941 21,127 91,114	2.05  4.84  1.56  1.26  3.71  NERS  1.19  0.83  0.34	TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE	RANEA	<b>AN</b>	
00-18			20 %29	mon- gsa01_05 mut- gsa01 mut- gsa06 pil-gsa01 pil-gsa06 <b>17 SHI P</b> ane- gsa06 AO-ALB- M	1,292 111 4,317,615 4,138,429 PURSE SEI 6,331,941 21,127	2.05  4.84  1.56  1.26  3.71  NERS  1.19  0.83  0.34	TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE	RANEA	<b>AN</b>	

mac-nea	124	1.31	TRUE	
mon-	429	2.05	TRUE	
gsa01_05				
mut-	2,094	4.84	TRUE	
gsa01				
mut-	86	3.05	TRUE	
gsa06				
pil-	12,399	1.7	TRUE	
27.8c9a				
pil-gsa01	4,478,910	1.26	TRUE	
pil-gsa06	3,663,162	2.59	TRUE	

				T					T	
	TOT VAL SURVEYED	TOT VAL	PER				overexploited			
LENGTH	STOCK	STRATUM		FISHSTOCK		F_etoile2	stock	INDICATOR	stock_asses	<mark>overexploite</mark>
					PURSE SEI	NERS				
		, ,	M	EDITER	RANEAN					
				ane- gsa01	3,529,221	2.26	TRUE			
	167	37	%	ane- gsa06	12,516,280	0.89	FALSE			
18-24	26,396,167	78,	.52%	pil-gsa01	4,754,014	0.66	FALSE	1.20	6	4
	26,3	32,378,237	81	pil-gsa06	5,553,796	1.68	TRUE			
	. •	(,,		sbr-gsa01	42,586	1.72	TRUE			
				whb-	270	9.5	TRUE			
				gsa06						
			20	16 SHI I	PURSE SEI	NERS				
			M	EDITER	RANEAN					
				ane- gsa06	15,755,153	0.89	FALSE			
	25,757,666	38,608,984	66.71%	hke- gsa06	35	7.71	TRUE	1.67		
18-24				mac-nea	17,195	1.31	TRUE		6	5
	25,7	38,6	99	pil-gsa01	3,263,364	1.26	TRUE			
		(1)		pil-gsa06	6,719,548	3.71	TRUE			
				whb-	2,370	7.88	TRUE			
				gsa06						
			20	17 SHI I	PURSE SEI	NERS				
			M	EDITER	RANEAN					
				ane- gsa06	14,216,707	1.19	TRUE			
				ank- gsa06	17	6.49	TRUE			
10.24	4,546	1,284	3%	AO-ALB- M	13,666	0.83	FALSE	4.55	0	8
18-24	24,494,546	38,921,284	62.93%	hke- gsa06	6	7.8	TRUE	1.55	9	•
				mon- gsa01_05	9	2.05	TRUE			
				pil- 27.8c9a	13,988	1.7	TRUE			

	pil-gsa01	4,076,441	1.26	TRUE	
	pil-gsa06	6,173,478	2.59	TRUE	
s	swo-med	234	1.85	TRUE	

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM			STOCK VAL	_	Overexploited stock	INDICATOR	stock_assess	overexploited				
	MEDITERRANEAN													
				ane- gsa06	5,074,945	0.89	FALSE							
24-40	5,840,976	7,509,427	91.10%	hke- gsa06	1,245	7.8	TRUE	1.10	4	3				
24-40	6,840	7,509	91.1	mulbar- gsa06	607	1.24	TRUE	1.10	4	3				
				pil- gsa06	1,764,180	1.68	TRUE							
			2016	SHI PL	JRSE SEIN	NERS								
			MED	ITERRA	NEAN									
24.40	7.005.005	9 200 022	05 200/	ane- gsa06	6,409,259	0.89	FALSE	1.44	2	1				
24-40	7,965,895	8,360,622	95.28%	pil- gsa06	1,556,636	3.71	TRUE	1.44	2	1				
			2017	SHI PL	JRSE SEIN	NERS								
			MED	ITERRA	NEAN									
24-40	0 842 220	10,362,794	04 08%	ane- gsa06	8,502,880	1.19	TRUE	1.38	2	2				
24-40	3,042,330	10,302,794	34.30%	pil- gsa06	1,339,450	2.59	TRUE	1.58		2				

## **VESSELS USING HOOKS (MEDITERRANEAN)**

The segment of <u>0-40 metre vessels using hooks</u> comprises 70 vessels, of which only 37 operated full-time (there is 1 vessel measuring more than 24 metres included in the 00-40 cluster), 15 fewer than the previous year. The vessels are registered as using small-scale gear or bottom-set longlines.

In the <u>economic indicator</u>, we can see that profitability was poor in 2014 and 2015, possibly due to the severe financial crisis in Spain. Conversely, during the economic recovery in 2016 — when there was a steep decline in fixed costs — profitability was high and remained in balance in 2017, showing profitability in the weighted economic indicator.

				C	R/BER				ROFTA (%)							
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012- 2017	
	00-40	0.96	2.02	0.23	0.44	10.13	1.89	3.68	-1.74	24.42	- 89.06	- 88.70	91.48	12.74	13.54	
S)			TECHN	IICAL (N	/IAX = A	V. 10 M	IOST AC	TIVE)	SHI							
Hooks	00-40	0.74	0.73	0.76	0.76	0.78	0.87	0.82	2	2.08					2.05	
_				OV	ERALL II	NDICAT	OR									
	00-40	1	2	1	1	3	3	2								

<u>Operational capability</u>: Structural capacity continued to be fairly unstable during the four years analysed and showed a slight imbalance, in particular taking into account the high number of vessels not working full-time and an inactivity level of 27% (19 vessels were inactive).

<u>Biological indicators</u>: In this fleet, which mainly fishes for bluefin tuna, surveyed stocks do not account for 40% of catches, meaning that it is not possible to assess the biological indicator, although catches of species such as ARA and HKE in GSA 06 should be reduced. The weighted indicator gives an imbalance in the figures for 2012 and 2013 because these included surface longliners, resulting in an imbalance in the weighted indicator when these vessels should not be taken into account.

The weighted indicator shows a slight imbalance caused by low profitability in 2014 and 2015, which becomes a balance in 2016 and 2017. Although there is a biological imbalance carried over from 2013 in the surface longliner fleet, the situation can be considered to be <u>in balance</u>.

### GILLNETTERS (MEDITERRANEAN)

This segment mainly comprises vessels in the **00-18** length class using small-scale gear, and some bottom longliners. This fishery grew last year in terms of full-time vessels, and increased again this year to include 127 vessels operating full-time.

<u>Profitability</u> in 2012 and 2013 was good over the short and long term, though it worsened drastically in 2014 and 2015 due to a greater increase in costs than revenue. The fleet then underwent a strong improvement in 2016 that continued to a lesser extent in 2017.

In <u>technical</u> terms, it is a fleet that shows good exploitation of the fishing ground and has a large number of full-time vessels. In <u>biological</u> terms, surveyed species account for less than 6% of catches, meaning that the fleet is not considered to depend on overexploited or high-risk species (no SAR).

				C	R/BER			RoFTA (%)							
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012- 2017
ets	00-18	8.68	3.00	-0.44	0.09	2.22	1.57	1.58	72.51	83.59	- 95.56	- 35.78	44.62	23.36	16.39
Gillne		TECHNICAL (MAX = AV. 10 MOST ACTIVE)									OVERAL	L INDIC	ATOR		
0	00-18	0.77	0.76	1.02	0.94	0.89	0.85	0.88	3	3	2	2	3	3	3

The overall weighted indicator is balanced, although it is necessary to monitor the economic performance of this fleet closely.

### POLYVALENT VESSELS (MEDITERRANEAN)

A varying number of vessels using small-scale gear fish in the polyvalent fleet. Numbers vary from year to year, and it is difficult to assess the level of inactivity since some small-scale vessels only ever use one method (gillnets or one-panel gillnets, trammel nets, hooks or lines, trolling lines, and so on) while others do not work with any particular method, and these are all considered to be polyvalent. The 00-18 segment comprises 1,056 active vessels, 36 fewer than the previous year, of which only 606 vessels fish for more than 90 days/year. Inactivity in the small-scale gear fleet is around 23%.

The <u>economic indicators</u> are good, although profitability declined sharply in 2017.\_In <u>technical</u> terms, exploitation of the fishing ground is low and the percentage of active vessels that operated full-time stands at 57%, a normal rate for the artisanal fleet, which operates part-time, supplementing its income with other activities outside the fishing industry.

				CR/	BER						I	RoFTA (%	5)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
ŧ	00-40	2.93	0.91	1.18	4.98	7.87	1.59	3.59	27.98	-2.80	8.13	186.26	114.39	23.47	65.50
olyvalent			TECHNI	ICAL (MA	X = AV. 1	0 MOST	ACTIVE)				OVER	ALL INDI	CATOR		
8	00-40	0.62	0.64	0.63	0.65	0.64	0.66	0.65	2	1	2	2	2	3	2

In <u>biological</u> terms, the fleet does not depend on overexploited or high-risk surveyed stocks, since it is a fleet that fishes for a range of species, although as mentioned when discussing the hook segments, the large quantity of vessels has an impact on the main overexploited species such as hake and sardine in GSA 06.

Last year, it was possible to form a segment for <u>vessels over 18 metres</u>, which displayed a dependency on overexploited stocks, mainly due to the fleet's dependency on stocks in GSA 06 and to the fact that an SAR — PIL GSA 06 — accounts for more than 10% of catches. This year, only 4 vessels measuring more than 18 metres operated full-time, meaning that statistical confidentiality prevented the segment from being created and the 4 vessels had to be included in a cluster with 00-18 metre vessels.

Given that the slight imbalance in the weighted indicator is due to the technical indicator, and given that it is a purely artisanal fleet, an **action plan** is not recommended.

## **DREDGERS**

There was an increase in the number of vessels operating in this fishery, from 32 to 53 active vessels, and there were 30 full-time vessels, compared to 21 in the previous year. The economic indicators show good profitability in the series analysed, although profitability fell in 2017. The fleet does not depend on surveyed species, which would inform us of any dependency on overexploited or at-risk species. Exploitation of the fishing ground is poor, as in the rest of the artisanal fisheries. **No action plan is required**.

				CR/	BER						ı	RoFTA (%	)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
v	00-18	2.57	7.47	5.06	1.50	4.24	1.14	2.45	31.79	60.67	98.93	15.36	25.62	3.55	18.97
Dredges			TECHN	ICAL (MA	X = AV. 1	0 MOST	ACTIVE)				OVER	ALL INDIC	CATOR		
۵	00-18	0.89	0.85	0.87	0.49	0.92	0.83	0.81	3	3	3	2	3	2	3

#### **VESSELS USING POTS**

A total of 31 vessels operated, of which 25 fished full-time, 4 more than the previous year. The economic indicators show good profitability in the series analysed, and good operational capability in the fishing ground. Since the fleet does not depend on surveyed species, the overall indicators are **in balance**.

				C	R/BER						R	oFTA (%	6)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012-2017
	00-40	1.03	1.24	2.12	2.37	6.16	1.55	2.84	1.91	10.73	49.99	28.37	318.41	26.38	101.42
Pots			TECHI	VICAL (I	MAX = A	V. 10 N	OST A	CTIVE)			OVERA	LL INDI	CATOR		
	00-40	1.28	1.22	1.29	1.27	1.27	1.05	1.16	3	3	3	3	3	3	3

### SURFACE LONGLINERS (MEDITERRANEAN)

**00-18 metres:** This segment comprises 42 active vessels, of which 37 operated full-time, as in the previous year. Following poor profitability in 2015, in which revenue did not cover costs, both short- and long-term profitability recovered in 2016, and again to a lesser extent in 2017, resulting in a balanced overall economic indicator.

Operational capability showed a slight imbalance with 7 inactive vessels.

In <u>biological</u> terms, the segment depends mainly on overexploited SWO (although dependency fell sharply, with an increase in catches of tuna, a species in a very healthy situation), which is currently subject to a recovery plan recently approved by the ICCAT, resulting in a biological and technical imbalance in the overall indicator.

					CR/BEF	₹						RoFT	A (%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	201	2 2013	2014	2015	2016	2017	2012-2017
	00-18			1.87	-0.64	5.26	1.88	2.44			27.88	-31.74	87.83	41.44	43.15
ဟ	18-40	0.62	3.17	1.49	1.52	2.67	1.99	2.09	-22.1	76.97	18.15	29.06	42.13	45.31	40.65
longlines			TEC	HNICAL	(MAX =	AV. 10	MOST A	TIVE)				SF	11		
buc	00-18			0.74	0.80	0.75	0.73	0.74			1.71	2.78	1.53	1.58	1.74
	18-40	0.96	0.84	0.89	0.87	0.84	0.83	0.84	1.61	1.69	1.61	2.37	1.69	1.54	1.69
Surface				S	AR						0	VERALL II	NDICATO	OR	
Su	00-18						SWO-37				2	1	2	2	2
	18-40						SWO-37		1	2	2	2	2	2	2

**18-40 metres:** Overall, 22 vessels fish in this segment, 21 of which operated full-time, 1 more than the previous year, while 2 were inactive. The <u>economic</u> situation shows high profitability, in particular over the long term. The <u>technical indicator</u> shows fishing ground exploitation to be almost in balance. <u>Biologically</u>, the fleet depends on overexploited SWO stock, but dependency decreased this year with inclusion in the assessment of swordfish caught outside of the Mediterranean (in national Atlantic waters, where the stock is not overexploited).

Moreover, this year SWO has been classified as a high-risk species in the Mediterranean by the STECF, and this fleet accounted for more than 105 of the SWO catches.

The surface longliner segment requires the continuance of the action plan based on restriction of access in this zone to vessels not demonstrated to be operating full-time in the Mediterranean, as well as a reduction in the number of temporary fishing permits (TFPs) granted and licences for the Mediterranean held by the rest of the vessels included in the Consolidated Register of Surface Longliners.

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	F_etoile2	overexploited stock	INDICATOR	stock_assess	overexploited
		20	14 SH	I SURFACE	LONGLIN	IERS N	<b>NEDITERRA</b> I	NEAN		
	æ	Ф		AO-BFT-E	406,559	0.4	FALSE			
00.40	5,377,748	6,002,699	89.59%	AO-SWO-N	20,332	0.82	FALSE	4.7	4	2
00-18	.377	,002	89.5	sbr-gsa01	177,069	1.72	TRUE	1.7	4	
	5,	9		swo-med	4,773,788	1.82	TRUE			
				AO-ALB-N	814	0.72	FALSE			
				AO-BET	2,329	0.95	FALSE			
	:73	312	%	AO-SWO-N	1,326,942	0.82	FALSE			
18-24	6,223,273	7,617,812	81.69%	hke-gsa01	346	7.4	TRUE	1.6	7	4
	6,2	9′2	8	sbr-gsa01	29,980	1.72	TRUE			
				swo-med	4,862,340	1.82	TRUE			
				whm-27	522	1.63	TRUE			
		20	15 SH	I SURFACE	LONGLIN	IERS N	/IEDITERRAI	VEAN		
				AO-ALB-N	464	0.54	FALSE			
				AO-BFT-E	434,881	0.40	FALSE			
	89	61	v <sub>o</sub>	AO-SWO-N	39,047	0.21	FALSE			
00-18	7,226,568	7,606,261	95.01%	hke-gsa06	7		TRUE	2.78	7	4
	7,22	09′,	95.	mulbar-gsa06	2.355		TRUE		-	-
	17	1.		sbr-gsa01	120,317		TRUE			
				swo-med	6,629,498		TRUE			
				AO-ALB-N	100		FALSE			
		45		AO-BET	6,365		TRUE			
	864	9,145	%6	AO-BFT-E	130,002		FALSE			
18-24	8,870,864	9,509,145	93.29%	AO-SWO-N	1,781,531		FALSE	2.37	6	3
	8,8	9,5	6	sbr-gsa01	21,156		TRUE			
				swo-med	6,931,710		TRUE			
		20	16 SH	SURFACE	LONGLIN	IERS N	/IEDITERRAI	VEAN		
				AO-ALB-M	193,791		FALSE	-		
	2	4		AO-BET	320		TRUE			
00.10	,,05	,15	3%	AO-BFT-E	1,075,517		FALSE	4.53	5	3
00-18	6,253,052	6,498,154	96.23%					1.53	5	3
	9	9		hke-gsa06	226		TRUE			
				swo-med	4,983,198		TRUE			
				AO-ALB-M	51,364		FALSE			
	25,312,510	26,822,328	%	AO-ALB-N	827		FALSE			
18-24	12,5	22,3	37	AO-BET	7,756		TRUE	1.69	6	3
	25,3	56,8	94.37%	AO-BFT-E	2,118,364		FALSE			
	(4			pil-gsa01	223		TRUE TRUE			
		20	47.611	swo-med	23,133,976			15.001		
		20	1/ SH	•			/IEDITERRAI	NEAN		
	93	19	%	AO-ALB-M	572,047		FALSE			
00-18	5,984,593	6,283,519	95.24%	AO-BFT-E	669,330		FALSE	1.58	4	2
	36'5		95.	hke-gsa06	268		TRUE			
			J,	swo-med	4,742,949		TRUE			
	8		\0	AO-ALB-M	223,224		FALSE			
	,078	,42	%9	AO-BET	1,584		TRUE	4.54	_	_
18-40	7,108,078	7,308,422	97.26%	AO-BFT-E	583,264		FALSE	1.54	5	2
	7,7	7,5	9.	swo-med	5,255,646		TRUE			
				swo-na	1,044,359	0.78	FALSE			

# **CANARY ISLANDS**

# POLYVALENT VESSELS (CANARY ISLANDS)

<u>00-40 segment:</u> Of the 497 active vessels in this segment of the fleet, 159 operated full-time (all of which measured less than 18 metres, excepting one measuring 33 metres). In total, 142 vessels were totally inactive.

The <u>economic indicators</u> deviate greatly from the data for previous years: the statistics show a sharp increase in revenue compared to 2016 (up 97%), while costs also increased to more than double 2016 levels (rising by 112%). These increases occurred under both non-variable cost headings (fixed costs and depreciation) and under all variable cost headings, particularly staff costs both for salaried and unsalaried workers, which more than doubled. The number of vessels fell from 170 to 159. Staff figures saw an abnormal increase from 350 in 2016 to 471 in 2017, figures that are, to a certain extent, inconsistent with the above. According to an analysis of the value of landings registered in electronic logs and sales notes, fishing revenues increased by 6%, which is consistent with the volume caught, which was practically the same as in 2016. Therefore, this figure is considered to come from a statistical error in the sample, although it is necessary to wait and see how the figures develop in the years to come to assess whether this is a real trend in the stratum or whether the sample selected for the economic survey was less than optimal.



In this fleet, <u>exploitation</u> of the fishing ground is highly out of balance, as reflected in a <u>technical indicator</u> that is one of the lowest in the full-time fleet, which clearly indicates some difficulty in measuring the activity taking place in the Canary Islands. Nevertheless, and as reiterated by the STECF as of 2015, low exploitation of the fishing ground by the artisanal fleet does not indicate an imbalance between capacity and fishing opportunities.

The <u>biological indicator</u> does not show a dependency on overexploited or SAR species.

Given the result obtained in the weighted indicator, the **segment is considered to remain in balance** for the present.

# PURSE SEINERS (CANARY ISLANDS)

A total of 10 vessels continued to fish full-time of a total of 16 vessels active in the segment (2 more than in 2016). Both short- and long-term profitability were good; the results obtained in 2016 were excessive, a situation that may have been caused by undue weight being given to depreciation data for that year.

The match between capacity and the fishing ground and the lack of dependency on at-risk stocks mean that this fleet constitutes a segment **in total balance**.

				CR/BER					RoFT.	A (%)	
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017
υý	00-18	1.64	1.57	19.14	2.61	6.81	40.51	19.73	625.42	156.85	255.76
urs		TECH	NICAL (M	AX = AV.	TIVE)		OVE	RALL INDI	CATOR		
P S	00-18	0.96	0.90	0.94	0.95	0.94	3	3	3	3	3

# **VESSELS USING HOOKS (CANARY ISLANDS)**

The 00-18 segment comprises 70 vessels, of which 23 are full-time and use small-scale or Canarian poleand-line gear to fish for tuna. In the 18-40 segment (in which all vessels measure more than 24 metres except for 7 vessels included in the cluster), 23 vessels operate full-time, of which 21 are pole-and-line tuna vessels. Both segments show a small reduction in fleet size compared to the previous year.

				CR/BER					RoFTA (%	)	
Gear	Length	2014	2015	2016	2017	2014- 2017	2014	2015	2016	2017	2014- 2017
	00-18			1.45	6.74	4.98			4.69	143.51	97.24
	18-40	1.18	1.14	3.38	0.60	1.45	7.73	9.20	131.74	-19.04	26.72
		TECH	INICAL (N	IAX = AV.	MOST AC	TIVE)			SHI		
Hooks	00-18			0.87	0.94	0.92			0.66	0.84	0.78
오	18-40	1.00	0.98	0.91	0.93	0.94		1.03	0.9	1.02	0.99
			OVER	ALL INDIC	ATOR						
	00-18			3	3	3					
	18-40	3	3	3	2	3					

In the <u>00-18 segment</u> there has been a steady increase in the profitability of this fishery, with a capacity in balance with the fishing ground. However, there was increased dependency on the only overexploited species, bigeye tuna, catches of which doubled, meaning that the catches of this fleet will need to be monitored in the future.

The <u>18-40 segment</u> shows a decrease in profitability, mainly caused by a very steep drop in revenue as reflected in statistical data; this is not consistent with the real value of landings, so the situation should be monitored over the next year to see if this trend continues. Exploitation of the fishing ground is balanced, while the biological indicator has worsened due to a decrease in catches of albacore tuna (a healthy stock) to almost half previous levels.

# The weighted indicator shows a balance, and therefore no action plan is required.

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	STOCK VAL	F_etoile2	overexploited stock	INDICATOR	stock_assess	overexploited
			2	015 SH	I HOOKS	CANA	RY ISLAN	IDS		
	4	4		AO- ALB-N	918,334	0.54	FALSE			
18-40	9,10	3,46	46%	AO-BET	2,022,176	1.28	TRUE	1.03	4	1
10 40	3,049,104	3,653,461	83.46%	AO-BFT- E	93,910	0.40	FALSE	1.03	7	•
				AO-YFT	14,684	0.77	FALSE			
			2	016 SH	I HOOKS	CANA	RY ISLAN	IDS		
		9		AO- ALB-N	2,933,121	0.54	FALSE			
00.40	0 754 500	4,815,086	0	AO-BET	-	1.28	TRUE	0.66		4
00-18	3,751,528	4,81	77.9	AO-BFT- E	126,941	0.34	FALSE	0.66	4	1
				AO-YFT	42,082	0.77	FALSE			
		82	٠,0	AO- ALB-N	4,583,686	0.54	FALSE			
10 10	0.255.074	9,770,0778	94.74%	AO-BET	4,480,003	1.28	TRUE	0.90	4	1
18-40	9,255,974	77'6	94.	AO-BFT- E	68,172	0.34	FALSE	0.90	4	1
				AO-YFT	124,114	0.77	FALSE			
			2	017 SH	I HOOKS	CANA	RY ISLAN	IDS		
				AO- ALB-N	1,256,458	0.54	FALSE			
	,138	,842	.57%		1,120,962		TRUE		_	
00-18	2,657,138	3,712,842	71.5	AO-BFT- E	220,382	0.34	FALSE	0.84	4	1
				AO-YFT	59,336	0.77	FALSE			
	1	5+	_	AO- ALB-N	2,157,108	0.54	FALSE			
18-40	2,81	1,14	)5%	AO-BET	4,501,381	1.28	TRUE	1.02	4	1
10-40	6,932,811	7,964,144	87.05%	AO-BFT- E	112,062	0.34	FALSE	1.02	4	1
				AO-YFT	162,261	0.77	FALSE			

#### DETAILED ANALYSIS OF NON-NATIONAL NORTH ATLANTIC SEGMENTS

The fleet operating in the non-national North Atlantic comprised 149 active vessels in 2017 (8 fewer than the previous year), of which 146 operated for more than 90 days (7 fewer than in 2016). A further 52 vessels used trawling gear, 54 passive gear in ICES and 40 used surface longlines.

#### **TRAWLERS**

The trawler fleet operating in NEAFC and NAFO waters has been restructured so that the different fishing grounds can be assessed separately.

- The <u>18-24 segment</u> has been grouped together with the 10 trawlers from Portugal operating in the waters of zone 28.9.a, and shows a balance.
- The <u>24-40 segment</u> comprises 31 trawlers in NEAFC—EU waters (fleet of 300). This fleet shows good profitability and a good exploitation of the fishing ground, and does not depend on overexploited species, meaning that it is in balance.
- The segment of <u>vessels over 40 metres</u> comprises 13 vessels (11 of which operate full-time), of which most are NAFO trawlers and NEAFC cod-fishing vessels. The segment has performed well in economic terms and exploitation of the fishing ground has improved. The year included studies on mortality of Norway redfish, a highly overexploited species, which affected the results in the biological indicator (SHI), which is in balance but nevertheless is very close to entering into a moderate imbalance.

None of the trawler fleets requires an action plan.

					CR/BER						F	RoFTA (%	)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	00-24			1.74	1.98	3.62	2.14	2.49			51.03	105.04	120.60	99.08	102.41
	24-40	1.27	-0.18	1.52	1.88	3.48	2.29	2.40	30.43	-111.38	46.96	69.85	111.61	130.76	103.56
	> 40	1.33	1.84	1.87	3.48	3.56	3.07	3.10	37.43	63.02	133.78	456.00	625.05	306.34	383.34
ets			TECHNIC	CAL (MA)	( = AV. 1	0 MOST	ACTIVE)					SHI			
trawl nets	00-24			1.03	1.04	1.01	1.03	1.03							
trav	24-40	0.82	0.84	0.85	0.89	0.92	0.91	0.90							
Bottom	> 40	0.83	0.75	0.84	0.83	0.87	0.91	0.88				0.82	0.81	0.98	0.91
Bot				OVER#	ALL INDIC	CATOR									
	00-24			3	3	3	3	3							
	24-40	3	1	3	3	3	3	3							
	> 40	3	3	3	3	3	3	3							

## **VESSELS USING PASSIVE GEAR**

This segment comprises 47 vessels using passive gear and 7 bottom longliners of less than 100 GRT that fish full-time in NEAFC—EU waters. This fleet is economically profitable, with very uniform exploitation of the fishing ground, and highly dependent on Northern hake, the biological status of which is very good. The stratum maintains the balance of previous years and **does not require an action plan**.

					CR/B	ER						RoFTA	(%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012-2017
_	18-40	1.73	1.57	2.10	2.83	3.35	2.19	2.53	64.63	42.64	73.07	136.08	164.86	92.39	113.10
geal			TECHN	IICAL (N	AX = A	V. 10 M	OST ACT	IVE)				SH	ll .		
Se Se	18-40	0.86	0.76	0.81	0.84	0.89	0.93	0.89	0.98	0.98	1.22	0.79	0.96	0.79	0.87
assi	OVERALL INDICATOR														
<u>~</u>	18-40	3	3	2	3	3	3	3							

## **BIOLOGICAL INDICATORS FOR 2015-2017 (NORTH ATLANTIC)**

GEAR	LENGTH	TOT VAL SURVEYED STOCK	TOT VAL	PER CENT	FISHSTOCK	STOCK VAL	F_etoile2	overexploited stock	INDICATOR	stock_assess	overexploited
			2015 SHI	NON	-NATIONAI	NORTH A	ATL.			_	
					bli-5b67	72,020	0.28	FALSE			
					cod-arct	55,155,397	0.84	FALSE			
LS		~	6		had-arct	978,657	0.57	FALSE			
NE.		118	,13	%	hke-nrtn	391,737	0.79	FALSE			
TRAWL NETS	> 40	57,261,118	115,590,139	49.54%	lin-comb	1,149	1.08	TRUE	0.82	9	4
RA/		7,2	15,5	49	mac-nea	561	1.31	TRUE			
Ξ		Ю	H		RNG-5B67	641,149	0.25	FALSE			
					sol-bisc	19,133	1.34	TRUE			
					whb-comb	1,316	1.45	TRUE			
R					AO-ALB-N	3,050,124	0.54	FALSE			
PASSIVE GEAR		49	72	_	AO-BET	4,703	1.28	TRUE			
E G	24.40	87,756,149	90,629,872	94.62%	bli-5b67	75,917	0.28	FALSE	0.79	6	3
SIV	24-40	,75(	,629	9.4.6	hke-nrtn	80,320,259	0.79	FALSE	0.79	О	3
AS		87,	90)	01	hke-soth	523	2.10	TRUE			
Ъ					lin-comb	2,304,623	1.08	TRUE			
			2016 SHI	NON	-NATIONAI	NORTH A	ATL.				
					bli-5b67	48,569	0.28	FALSE			
TRAWL NETS		27	60		cod.27.1-2	37,619,807	0.83	FALSE			
N	. 40	39,721,027	88,009,309	45.13%	ghl.27.561214	168,446	1.1	TRUE	0.01	_	2
×	> 40	,72:	, oo	15.1	had.27.1-2	556,328	0.57	FALSE	0.81	6	2
TR/		39,	88	7	RNG-5B67	1,326,927	0.25	FALSE			
					whb.27.1-912	949	1.21	TRUE			
R					AO-ALB-N	832,961	0.54	FALSE			
PASSIVE GEAR		.07	69	_	AO-BET	13,970	1.28	TRUE			
E G	24-40	14,2	6,1,6	,2%	bli-5b67	50,887	0.28	FALSE	0.96	6	3
SIV	24-40	100,044,207	107,861,969	92.75%	had-7b-k	91	1.69	TRUE	0.96	b	3
AS		100	107	0,	hke-nrtn	99,145,580	0.96	FALSE			
Ъ					sol.27.8ab	718	1.1	TRUE			
			2017 SHI	NON	-NATIONAI	NORTH A	ATL.				
					bli-5b67	52,759	0.28	FALSE			
LS		•			cod.27.1-2	38,054,519	1	TRUE			
NE.		368	77.	%	ghl.27.561214	261,426	1.03	TRUE			
TRAWL NETS	> 40	,49,	67,	49.17%	had.27.1-2	399,992	0.57	FALSE	0.98	7	3
🗦		40,649,839	82,667,770	49	POK.27.1-2	125,346	0.74	FALSE			
⊳		4	. ∞	1		467.500		TOUE			1
TR/		•			reg.27.1-2	167,590	5.8	TRUE			

		7	2		bli-5b67	83,076	0.28	FALSE			
VE	22	06,	,41	%	had-7b-k	84	1.69	TRUE			
ASSIV	절 24-40	528	777	.07	hke-nrtn	101,445,611	0.79	FALSE	0.79	5	2
4	1	01,5	10,	92	hke-soth	31	2.1	TRUE			
		Ä	Н		sol.27.8ab	105	0.91	FALSE			

# SURFACE LONGLINERS (NORTH ATLANTIC)

In this zone, 10 surface longliners in the 12-24 length class operated full-time in 2017 (2 fewer than in 2016), and 30 in the 24-40 length class (3 vessels fewer than in 2016). The fleet shows good profitability, consolidating good performances since 2014. Exploitation of the fishing ground is optimal in both classes. In relation to the biological indicator, we can see that the 00-24 length class displays a low dependency on overexploited stocks, given that it depends on Atlantic SWO. Nevertheless, although the fleet's situation continues to be balanced, its biological indicator worsened in comparison to previous years, since its F etoile value rose from 0.21 to 0.78 and there was a slight increase in bigeye tuna catches. The 24-40 segment does not depend on overexploited species.

Both segments are in balance. No action plan is required.

					CR/BE	ER						Ro	FTA (%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012-2017	2012	2013	2014	2015	2016	2017	2012-2017
	00-24			1.17	2.66	8.75	10.29	8.25			12.41	99.91	292.50	272.27	237.36
	24-40	1.06	0.49	2.19	2.39	3.95	2.97	2.98	4.09	-22.38	31.17	33.88	60.58	54.31	48.61
ines			TECHN	IICAL (N	/IAX = AV	. 10 MC	OST ACT	IVE)					SHI		
longlines	00-24			0.93	0.91	1.00	1.02	1.00			0.79	0.52		0.91	0.83
	24-40	0.92	0.94	0.92	0.92	0.88	0.91	0.90	0.83	0.82	0.84	0.35			0.58
Surface				SA	AR						0/	/ERALL	INDICATO	OR .	
S	00-24											3	3	3	3
	24-48				BSH-27				3	2	3	3	3	3	3

LENGTH	TOT VAL SURVEYED STOCK	TOT VAL STRATUM	PER CENT	FISHSTOCK	<u>l</u>	F_etoile2	overexploited stock	· · · · · · · · · · · · · · · · · · ·	stock_assess	overexploited
	2014	SHI SUF	RFACE	LONGLIN	ERS NO	N-NAT	IONAL NO	ORTH A	TL.	
			%	AO-ALB-N	752,489	0.72	FALSE			
00-24	1,903,794	3,828,882	49.72%	AO-BET	106,414	0.95	FALSE	0.78	3	0
			94	AO-SWO-N	1,044,891	0.82	FALSE			
	2015	SHI SUF	RFACE	LONGLIN	ERS NO	N-NAT	IONAL N	ORTH A	TL.	
				AO-ALB-N	585,955	0.54	FALSE			
				AO-BET	55,777	1.28	TRUE			
	,172	,203	1%	AO-SWO-N	1,886,829	0.21	FALSE		_	_
00-24	2,744,172	5,317,203	51.61%	Swo- med	215,298	2.97	TRUE	0.52	5	3
				Whm- 27	314	1.63	TRUE			
	2017	SHI SUF	RFACE	LONGLIN	ERS NO	N-NAT	IONAL NO	ORTH A	TL.	
00-24	3, 26 7, 7, 10	12 4, 95	ω. 4	AO-ALB-N	484,292	0.54	FALSE	0.91	4	2

A	AO-BET	764,543	1.28	TRUE
S	swo-med	143,023	1.85	TRUE
s	swo-na	1,875,243	0.78	FALSE

#### DETAILED ANALYSIS OF SEGMENTS IN INTERNATIONAL WATERS

#### **TRAWLERS**

**<u>24-40 segment:</u>** The vessels in this segment (39 full-time vessels) are mainly international trawlers and trawlers from third countries — 5 trawlers from Portugal that fish in international waters and 2 CNW trawlers that mainly operate in international waters.

					CR/BER						R	oFTA (%)			
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	24-40	0.38	-0.21	11.74	2.71	2.87	1.01	2.33	-91.00	-168.94	1,538.84	193.20	112.40	0.76	144.36
<u>د</u> ق	> 40	0.08	0.28	3.78	2.15	1.89	2.30	2.17	-50.98	-55.82	262.47	242.72	160.97	198.13	186.42
Bottom			TECHN	IICAL (MA	X = AV. 1	0 MOST A	ACTIVE)				OVERA	ALL INDIC	ATOR		
B #	24-40	0.62	0.75	0.82	0.83	0.85	0.84	0.83	1	1	2	3	3	2	3
	> 40	0.88	0.91	0.86	0.85	0.82	0.86	0.85	1	2	3	3	3	3	3

In <u>economic terms</u>, the DTS 24-40 stratum's short-term profitability fell (although it remained in balance in 2017). Meanwhile, long-term profitability experienced a sharp decline due to a steep fall in revenue, while costs stayed at similar levels to 2016. In <u>technical terms</u>, the exploitation of the fishing ground displayed a slight imbalance, close to a balance. It <u>does not depend on overexploited surveyed stocks</u>. Given the current situation, **an action plan is not required**, although the fleet's economic performance over the coming years should be monitored.

<u>Vessels over 40 metres:</u> In total, 33 vessels fish in this segment (international trawlers and NAFO trawlers operating in the South Atlantic), 3 more than the previous year. <u>Economic profitability</u> improved both over the short and long term. In <u>technical and biological terms</u>, the segment is in balance, and **does not require an action plan**.

#### **VESSELS USING HOOKS**

<u>00-24 metres:</u> This segment comprises 19 vessels using small-scale gear (14 full-time vessels compared to 26 the previous year) and mainly fishing outside the national fishing ground in zone 34.1.1, Morocco, primarily for silver scabbardfish, scabbardfish, red seabream and bluefin tuna.

The <u>economic indicator</u> shows improvement over 2016, both in short-term and long-term profitability, possibly due to a decrease in the number of vessels, which influenced the improvement over the short term. Long-term profitability improved in 2017 to reach a balance, but shows an imbalance in the weighted indicator due to the poor performance of previous years. The economic performance of this segment must be monitored to accurately assess whether this improvement will continue into the future.

The indicator on exploitation of the fishing ground is close to being in balance, and the fleet does not depend on more than 40% surveyed species.

In the <u>24-40 segment</u>, there were 13 full-time vessels (3 more than in 2016), mainly comprising CNW purse seiners (7), bottom longliners (4), and surface longliners (2) that operate in tuna fisheries, which continued to improve their profitability in 2017. The fleet is almost in balance in the technical indicator.

				CR/B	ER				RoFTA (	%)	
Gear	Length	2014	2015	2016	2017	2014-2017	2014	2015	2016	2017	2014-2017
	00-24	-0.09	-0.67	1.15	2.02	1.29	-92.62	-75.89	1.58	19.52	-5.46
	> 24	0.72	1.47	3.39	4.78	3.70	-12.30	42.84	133.62	163.75	127.86
		TECHN	IICAL (N	IAX = A\	/. 10 MC	OST ACTIVE)			SHI		
oks	00-24	0.85	0.96	1.23	0.87	0.98					
Hooks	> 24	0.77	1.02	1.03	0.78	0.88		0.89	0.95	1.01	0.98
			OVE	RALL IN	DICATO	R					
	00-24	1	2	3	3	2					
	> 24	1	3	3	2	3					

The <u>biological indicator</u> shows a dependency on at-risk species. The fleet depended on three overexploited species (bigeye tuna, Southern hake and blue whiting), and the increase in bigeye tuna catches is what caused the indicator to enter into a slight imbalance. The overall indicator shows that this segment is in balance, and therefore **does not require an action plan**, although it will be necessary to monitor the fleet's situation and catches of bigeye tuna.

LENGTH	TOT VAL SURVEYED STOCK			FISHSTOCK			overexploited stock	INDICATOR	stock_assess	overexploited
		2015 SH	НОО	KS INTERNA	ATIONA	L				
				AO-BET	1,014,504	1.28	TRUE			
24-40	4,579,611	9,347,675	48.99%	AO-YFT	3,534,832	0.77	FALSE	0.89	3	1
				hke-soth	30,276	2.10	TRUE			
		2016 SH	НОО	KS INTERNA	ATIONA	L				
				AO-ALB-N	10,039	0.54	FALSE			
24-40	9,072,678	20,963,322	43.28%	AO-BET	3,171,778	1.28	TRUE	0.95	3	1
				AO-YFT	5,890,862	0.77	FALSE			
•		2017 SH	HOO	KS INTERNA	ATIONA	L				
				AO-ALB-N	184,925	0.54	FALSE			
				AO-BET	4,666,101	1.28	TRUE			
24-40	10,120,474	18,564,394	54.52%	AO-YFT	5,217,449	0.77	FALSE	1.01	5	3
				hke-soth	51,968	2.1	TRUE			
				whb.27.1-912	30	1.26	TRUE			

#### FREEZER TUNA SEINERS

This fleet comprises 26 vessels, and is highly stable and in balance.

The improving economic trend of the previous year continued in 2017, which highlights that the data for 2015 yielded unreliable results.

The fleet <u>does not depend on overexploited stocks</u>, but the biological indicator worsened in comparison with 2016 because albacore tuna from the Indian Ocean is now classified as an overexploited species. This fact, together with an increase in catches of Atlantic bigeye tuna (an overexploited species), caused the indicator to worsen.

Exploitation of the fishing ground showed a slight imbalance, though it was very close to being in balance. Although the **overall indicator was balanced**, it will be necessary to monitor the economic performance of this fleet and its biological development closely due to increased catches of Atlantic bigeye tuna.

					CR/BER							RoFTA	(%)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
10	> 40	3.42	2.59	2.28	0.99	2.30	2.32	2.17	116.94	113.52	52.51	-0.64	61.78	100.37	75.39
ines			TECHNI	CAL (MA	X = AV. 1	0 MOST	ACTIVE)					S	Н		
se	> 40	0.94	0.90	0.88	0.90	0.95	0.89	0.91	0.71	0.68	0.70	0.99	0.97	0.98	0.95
urse				OVER	ALL INDIC	CATOR									
4	> 40	3	3	3	2	3	3	3							

	TOT VAL	TOT VAL					overexploited		stock_assess	overexploited	
	SURVEYED	STRATUM	PER	FIGURE	CTOCK VAL		stock				
LENGTH	STOCK			FISHSTOCK	l .	F_etoile2	INITEDALA	INDICATOR			
	<u> </u>	<u> </u>	20		PURSE SEI	1		HUNAI			
				AO-ALB- N	134,192	0.54	FALSE				
				AO-BET	23,073,284	1.28	TRUE				
					82,835	0.70	FALSE				
				W	02,033	0.70	IALSE				
				AO-YFT	84,738,402	0.77	FALSE				
				EPO-BET	6,331,740	0.95	FALSE				
	18	92		EPO-YFT	4,804,281	0.98	FALSE				
> 40	35,3	58,4	94.22%	IO-ALB	516,139	0.85	FALSE	0.99	13	3	
<b>/40</b>	369,885,318	392,558,492	94.2	IO-BET	34,043,214	0.76	FALSE	0.99	13	3	
	36	39		IO-SKJ	10,127,376	0.62	FALSE				
				IO-YFT	204,958,487	1.11	TRUE				
				WPO-	185,496	1.57	TRUE				
				BET							
				WPO-	511,420	0.45	FALSE				
				SKJ WPO-	270 452	0.72	FALSE				
				YFT	378,452	0.72	FALSE				
			20	16 SHI	PURSE SEI	NERS	INTERNA	TIONAI			
				AO-BET	25,495,734	1.28	TRUE				
				AO-YFT	97,934,183	0.77	FALSE				
	_			blm-io	6,165	2.42	TRUE				
	,429	,35.		EPO-BET	22,469,340	0.87	FALSE				
. 40	4		%		==, :00,0 :0		TALSL				
> 40	52	585	3.88%	EPO-YFT	6,318,594		FALSE	0.97	9	3	
> 40	525,79	578,585	90.88%		6,318,594 101,855	0.97 0.85		0.97	9	3	
> 40	525,794,429	578,585,351	%88.06	EPO-YFT	6,318,594 101,855 53,105,483	0.97 0.85 0.76	FALSE	0.97	9	3	
> 40	525,79	578,585	%88.06	EPO-YFT IO-ALB IO-BET IO-SKJ	6,318,594 101,855 53,105,483 62,693,296	0.97 0.85 0.76 0.81	FALSE FALSE	0.97	9	3	
> 40	525,79	578,585	%88.06	EPO-YFT IO-ALB IO-BET	6,318,594 101,855 53,105,483	0.97 0.85 0.76 0.81	FALSE FALSE	0.97	9	3	
> 40	525,79	578,585	06	IO-ALB IO-BET IO-SKJ IO-YFT IOTS SHI	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI	0.97 0.85 0.76 0.81 1.11 NERS	FALSE FALSE FALSE TRUE			3	
> 40	525,79	578,585	06	EPO-YFT IO-ALB IO-BET IO-SKJ IO-YFT  17 SHI AO-ALB-	6,318,594 101,855 53,105,483 62,693,296 257,669,779	0.97 0.85 0.76 0.81 1.11	FALSE FALSE FALSE TRUE			3	
> 40	525,79	578,585	06	EPO-YFT IO-ALB IO-BET IO-SKJ IO-YFT 17 SHI AO-ALB-N	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495	0.97 0.85 0.76 0.81 1.11 <b>NERS</b> 0.54	FALSE FALSE FALSE TRUE INTERNA FALSE			3	
> 40			20	EPO-YFT IO-ALB IO-BET IO-SKJ IO-YFT  17 SHI AO-ALB- N AO-BET	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495 31,196,395	0.97 0.85 0.76 0.81 1.11 NERS 0.54	FALSE FALSE FALSE TRUE INTERNA FALSE TRUE			3	
			20	EPO-YFT IO-ALB IO-BET IO-SKJ IO-YFT  17 SHI AO-ALB- N AO-BET AO-YFT	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495 31,196,395 68,489,754	0.97 0.85 0.76 0.81 1.11 NERS 0.54 1.28 0.77	FALSE FALSE FALSE TRUE INTERNA FALSE TRUE FALSE	TIONAI			
> 40			06	IO-ALB IO-SKJ IO-YFT  17 SHI AO-ALB- N AO-BET AO-YFT blm-io	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495 31,196,395 68,489,754 19,384	0.97 0.85 0.76 0.81 1.11 NERS 0.54 1.28 0.77 2.41	FALSE FALSE FALSE TRUE INTERNA FALSE TRUE TRUE TRUE FALSE TRUE			4	
	437,680,956 525,79	473,950,069 578,585	06 %SE	EPO-YFT IO-ALB IO-BET IO-SKJ IO-YFT  17 SHI AO-ALB- N AO-BET AO-YFT blm-io IO-ALB	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495 31,196,395 68,489,754 19,384 343,979	0.97 0.85 0.76 0.81 1.11 NERS 0.54 1.28 0.77 2.41 1.11	FALSE FALSE FALSE TRUE INTERNA FALSE TRUE TRUE TRUE TRUE	TIONAI			
			06 %SE	IO-ALB IO-SKJ IO-YFT  17 SHI AO-ALB- N AO-BET AO-YFT blm-io	6,318,594 101,855 53,105,483 62,693,296 257,669,779 PURSE SEI 12,495 31,196,395 68,489,754 19,384	0.97 0.85 0.76 0.81 1.11 NERS 0.54 1.28 0.77 2.41	FALSE FALSE FALSE TRUE INTERNA FALSE TRUE TRUE TRUE FALSE TRUE	TIONAI			

#### **SURFACE LONGLINERS**

A total of 87 vessels belongs to this fleet (62 vessels measuring 18-40 metres and 25 measuring more than 40 metres) operating in the South Atlantic, Indian Ocean and Pacific Ocean.

The <u>economic situation</u> displayed high short-term and long-term profitability although results worsened in comparison with 2016 due to a sharper decline in revenue than other headings.

The <u>good exploitation</u> of the fishing ground, with no vessels with low operational capability or inactive vessels, along with the fact that the segment <u>does not depend on overexploited species</u> leads us to conclude that it is a fleet in balance that **does not require an action plan**.

					CR/BER						l	RoFTA (%	5)		
Gear	Length	2012	2013	2014	2015	2016	2017	2012- 2017	2012	2013	2014	2015	2016	2017	2012- 2017
	18-40	0.32	1.52	1.80	3.54	2.83	2.16	2.43	-33.52	21.93	28.02	145.77	96.66	62.74	76.87
a s	> 40	-0.13	0.46	2.32	1.95	1.88	2.53	2.17	-90.93	-38.06	74.86	86.07	90.02	65.50	69.16
Surface onglines			TECHN	ICAL (MA	X = AV. 1	.0 MOST	ACTIVE)				OVER	ALL INDI	CATOR		
ns lon	18-40	0.90	0.87	0.91	0.91	0.86	0.90	0.89	2	3	3	3	3	3	3
	> 40	0.95	0.92	0.91	0.92	0.95	0.93	0.93	2	2	3	3	3	3	3

# MEASURES DEFINED FOR SEGMENTS WITH AN IMBALANCE WITHIN THE SPANISH OPERATIONAL FISHING FLEET

Details of the action plan for the coming years, which was launched last year, can be found below. As the fisheries industry and related activities fall under different jurisdictions, some of these activities are carried out by the central government and others by the Autonomous Communities.

#### 1. Biological resource recovery measures

- a) Data collection
- b) Ecosystem improvement
- c) Surveillance and control improvements

#### 2. Effort reduction measures

- a) Permanent cessation
- b) Allocation of fishing opportunities
- c) Temporary cessation
- d) Other measures

#### 3. Measures aimed at improving profitability in the short-to-medium term

- a) Sustainable fisheries
- b) Employment
- c) Marketing

#### 1. Biological resource recovery measures

Data collection and control programmes are cross-cutting initiatives that can form the starting point for adopting measures as key tools for monitoring the results achieved.

#### a) Data collection

The surveys described below help to improve our understanding of the resources accessed by the majority of the imbalanced segments. To give a greater overview, they are organised by fishing method and ground.

As part of the activities planned under the current national data collection programme, which is governed by the updated Regulation published in June 2017, and as required by the EMFF Operational Programme, work will continue on the various surveys that proved indispensable for the work of different stock evaluation groups. Broken down by fishery, the following surveys are the most important:

International Bottom Trawl Surveys (IBTS) aimed at estimating figures for the main commercial and non-commercial groundfish species, their spatial distribution patterns and hydrological data for the area platform.

Notable among these is the IBTS for Cantabria and Galicia (ICES divisions VIIIc and IXa N) at depths of 70-500 metres, with special sets that increase this scope to 30-800 metres. This survey, performed in September and October, will be complemented by the 'IBTS 1st Quarter ARSA', which seeks the same aims but

takes place in the spring. This will give us more accurate data, laying the groundwork for conducting scientific studies and formulating more exact recommendations.

As the action plan shows an imbalance in the overall indicators for the north-west Cantabrian Sea (CNW) 10-24 m and 24-40 m bottom trawl segments, mainly influenced by their biological indicators, these surveys will help give us a more precise understanding of stock developments so that tailored recommendations can be made.

The 'Mackerel/H. Mackerel eggs survey', a three-year programme consisting of four surveys in which data on the eggs and adult fish of Atlantic mackerel and Atlantic horse mackerel are collected at different times as part of a joint international evaluation of spawning-stock biomass, examining the annual egg production of mackerel stock in the north-west Atlantic and horse mackerel egg production and fertility in the Western stock. Two prestigious research institutes are involved in this survey: the Spanish Institute of Oceanography (*Instituto Español de Oceanografía*) and AZTI. These surveys collect data from ICES divisions VIII a, b, c and d and ICES division IXa N.

There is an imbalance in the biological indicator of the CNW 24-40 m purse seine segment. Of the species targeted by this segment, mackerel is overexploited and the data for horse mackerel indicate that this stock is also close to being overexploited. An analysis of the data obtained in these surveys is therefore essential for a proper assessment of these stocks.

SAREVA: This is a three-year joint Spanish-Portuguese survey to evaluate the sardine stock by monitoring daily egg production, as well as examining the spatial distribution of other species of commercial interest present during the same period, such as Atlantic mackerel, Atlantic horse mackerel, hake and blue whiting. This survey concerns ICES divisions VIII b and c and IXa N.

PELACUS: This survey aims to monitor and assess the pelagic ecosystem, obtaining abundance indices for the main small pelagics of commercial interest and the spatial distribution patterns of higher predators, eggs, fish and ichthyoplankton components. This is an annual survey conducted in divisions VIIIc and IXa. Work also continued on the International Blue Whiting Spawning Stock Survey (IBWSS), which was launched in 2018, completing the areas prospected under the auspices of other Member States, such as the Netherlands and Ireland, focusing on the southern component of this widely distributed stock.

BIOMAN: This is a spring survey on adult anchovies and eggs with a view to estimating biomass and population age data. It may also gather data on other species, such as the sardine.

MEDITS: This survey is conducted in the General Fisheries Commission for the Mediterranean (GFCM) geographical sub-areas 'Northern Alboran Sea', 'Alboran

Island' and 'Northern Spain'. Its aim is to estimate abundance indices (number and biomass) for the main groundfish species of commercial interest at depths of between 30 and 800 m. It also aims to describe the demographic structure of the species affected by fishing activities, establish spatial distribution patterns and assess the fishery's environmental impact. Sizing samples and biological samples will be taken as part of this survey, and the work will include age determination. Given the importance of the information obtained to monitor target stocks, the aim is to continue the historical data series applying the new data collection framework to be approved by the Commission.

MEDIAS: This survey is being conducted in the same GFCM geographical subareas listed above but targets the main pelagic species of interest in the Mediterranean (such as the European anchovy and sardine), trophic relationships, oceanographic data, and so on.

As for surveys being conducted under the North East Atlantic Fisheries Commission (NEAFC), work will continue on the IBTS in the Porcupine bank area in Irish waters (ICES divisions VII b and k) between 150 and 800 metres. The aim of this survey is to estimate the abundance of the main commercial and non-commercial groundfish species, spatial distribution patterns and hydrological data for the area platform. It is conducted annually in September on board the *Vizconde de Eza*, a trawler.

In order to obtain the best possible data for the scientific evaluation of the main pelagic species, work continues on the historical series of surveys being conducted under Article 77 of the EMFF since 2014:

BOCADEVA: This is a three-yearly evaluation of anchovy spawning stock using the egg production method conducted in Spanish and Portuguese waters in division IX (South).

JUVENA: This is a study into anchovy recruitment in the Bay of Biscay in order to assess the stock situation. The pelagic ecosystem is monitored and evaluated to obtain juvenile abundance indices and the recruitment rate (conducted annually in ICES divisions VIII a, b, c, d and e).

ECOCADIZ: This survey monitors and assesses the pelagic ecosystem to obtain abundance indices for the small commercial pelagics, as well as spatial distribution patterns for predators, eggs, adult fish and plankton (conducted annually in the Gulf of Cadiz).

ECOCADIZ-recruitment: This survey monitors and assesses the pelagic ecosystem in shallow waters, obtaining anchovy recruitment rates during spawning periods (conducted annually in the Gulf of Cadiz).

Work is also being done to improve our knowledge of certain stocks that are unique and of great importance for the Spanish fleet, such as the Iberian sardine. The IBERAS survey will be repeated in 2019, giving an overall assessment of the whole of division IXa with a single vessel in November, improving our knowledge of the species' actual recruitment rates.

Moreover, sentinel surveys will be carried out on the basis of the ICES recommendation for Norway lobster (*Nephrops norvegicus*) in Functional Units 25 and 30, and observers will board longline vessels to improve our understanding of CNW red seabream stocks.

**FUNDING:** Approximately €1,601,640 will be invested in Mediterranean surveys, namely in the MEDITS (groundfish) and MEDIAS (pelagic) surveys that started in the second half of April and will be completed towards the end of June. They will provide fishery-independent data to complement the information gathered by observers on board commercial vessels, at ports and at fish auctions, and the socio-economic survey results and cross-cutting variables studied under the Control Regulation.

Research surveys at sea and the same tasks listed above for the Mediterranean will also be performed for the CNW area. More specifically, groundfish surveys will be carried out for the trawler segment starting in mid-September for around 40 days, costing approximately €600,000.

As well as the surveys listed above, other specific initiatives will be carried out to improve our understanding of fisheries resources and encourage cooperation between scientists and fishermen (focusing on fisheries co-management as a new model of governance that enables the responsive management of fisheries using a bio-economic and ecosystem-based approach). The specific initiatives being promoted are:

- A multiannual aid scheme to finance cooperation between scientists and fishermen;
- A multiannual fisheries data collection programme, with a monitoring and follow-up project to support the compilation of data by the Catalan fisheries authorities in relation to the management plans, scientific research surveys and other initiatives in the interest of the fishing industry that aid compliance with the CFP.

#### b) Ecosystem improvement

Establishing and maintaining marine reserves: These reserves serve as breeding grounds for various fish and invertebrate species, helping to maintain their populations both within the reserve itself and in the surrounding area. They also help to preserve marine species and habitats. 'Marine Reserves of Interest to the Fisheries Industry' are also excellent natural laboratories, allowing us to compare the anthropogenic effects (pollution, collection, fishing, etc.) found within and outside the protected areas and study the impact of natural or manmade phenomena such as global warming on the populations of target species.

Several Autonomous Communities have plans to extend their protected areas or improve the management of existing ones.

Other ecosystem restoration measures include establishing other types of

protected area (other than reserves) and limiting fishing to certain areas and periods.

New areas or periods in which fishing is banned or restricted are to be established for the Mediterranean. These measures will focus particularly on spawning and breeding grounds, considering the possibility of restricting access at certain times to fisheries with a direct impact on the resources in question, possibly by amending the regulations to reduce the maximum period of activity.

#### c) Surveillance and control improvements

Initiatives will be carried out with the aim of characterising discarded catches as reliably as possible as a basis for prioritising measures aimed at ensuring fulfilment of the obligations under the Common Fisheries Policy and improving the competitiveness of the fleet. As the landing obligation is now being implemented in full, initiatives aimed at ensuring compliance with this obligation will be kept in place.

Turning to control strategies, the priorities for the CNW area will be recording catches by all vessels (over- and undersized), measuring nets using an approved mesh gauge, and checking the weighing of 100% of landed catches.

The priorities for the Gulf of Cádiz include checking catches and landings of immature fish in compliance with the landing obligation, preventing those intended for illegal marketing channels, and respecting the closures and seabed bans in place. Work will also continue on monitoring the technical measures in force with regard to the net and mesh gauges used.

Several Atlantic fisheries (blue whiting, Atlantic horse mackerel and Atlantic mackerel) are covered by the Specific Control and Inspection Programme (SCIP) and Joint Deployment Plan (JDP) for Western Waters, with special national measures in place for other species (southern hake).

In the Gulf of Cadiz, control over the octopus fishery will be prioritised, including catch monitoring, proper gear identification and compliance with minimum sizes and established closed seasons/areas.

The use of non-regulatory equipment and the landing of undersized specimens as part of the landing obligation will be priorities for the Mediterranean fishing ground, which features certain representative species, such as bluefin tuna and swordfish, that are subject to separate control initiatives under international recommendations.

#### 2. <u>Effort reduction measures</u>

Article 21 of Regulation (EU) No 1380/2013 lists fishing concession transferability as a way of managing fishing capacity.

In the same vein, Regulation (EU) No 508/2014 establishes two measures

directly aimed at striking a balance between fishing capacity and fishing opportunities: allocation of fishing opportunities and permanent cessation. Both measures have an immediate impact on fishing effort, helping to control and reduce it and lessening the pressure on resources as a result.

National legislation is to be put in place establishing a national fishing opportunities register, and an IT system for managing this register is to be developed. Effort is being reduced in the segments in imbalance through the definitive withdrawal of capacity (vessels) and by reducing the number of days fished by imbalanced fleets in their respective fishing grounds.

#### a) Permanent cessation

In 2018 the final payments were made under permanent cessation grants approved in 2017. Vessels belonging to segments with an imbalance according to the action plan in place when the aid scheme was launched and opened for application were withdrawn from activity to improve the situation in those segments. The permanent withdrawal of these vessels will lead to future improvements in the situation of the segments concerned. The measures taken in the various fishing grounds are analysed below:

CACANTABRIAN AND NORTHWEST: Aid for permanent cessation was granted to 19 vessels from the segments with an imbalance under the 2018 plan. The withdrawal of these 19 vessels from fishing activity will reduce the capacity using this fishing ground by 793.50 Gt and 2,022.79 kW.

SEGMENT IN IMBALANCE	NUMBER OF VESSELS	GROSS TONNAGE (Gt)	POWER (kW)
CNW trawlers 10-40 metres long	1	251.00	367.65
CNW gillnets 0-18 metres long	6	162.65	462.50
CNW purse seiners 18-24 metres long	1	57.02	161.76
CNW hooks 0-18 metres long	6	191.94	519.85
CNW hooks 18-24 metres long	1	69.00	292.65
CNW polyvalent vessels 0-40 metres long	2	8.85	60.29
CNW pots 0-18 metres long	2	53.04	158.09

**GULF OF CÁDIZ:** This aid has financed the scrapping of four trawlers from this fishing ground, resulting in a decrease of 245.59 Gt and 722.55 kW.

SEGMENT IN IMBALANCE	NUMBER OF VESSELS	GROSS TONNAGE (Gt)	- ,
Gulf of Cádiz trawlers 0-18 metres long	1	36.39	139.71
Gulf of Cádiz trawlers 18-40 metres long	3	209.20	633.09

**MEMEDITERRANEAN:** Fleet reduction measures have been taken in the imbalanced segments, with 60 vessels (2,358.30 Gt and 9,246.67 kW) scrapped as a result.

SEGMENT IN IMBALANCE	NUMBER OF VESSELS	GROSS TONNAGE (Gt)	POWER (kW)
Mediterranean trawlers 18-24 metres long	11	822.85	2,775.74
Mediterranean trawlers 24-40 metres long	5	681.67	1,713.24

Mediterranean gillnets 0-18 metres long	5	48.22	333.09
Mediterranean purse seiners 0-18 metres long	11	264.44	1,400.00
Mediterranean purse seiners 18-24 metres long	6	299.08	1,518.38
Mediterranean hooks 0-24 metres long	3	38.81	297.79
Mediterranean surface longliners 0-18 metres long	1	49.13	94.12
Mediterranean polyvalent vessels 0-18 metres long	17	129.42	1,001.84
Mediterranean dredgers 0-18 metres long	1	24.68	109.56

**CANARY ISLANDS:** One vessel has been scrapped with this aid, resulting in the withdrawal of 8.31 Gt and 92.67 kW.

SEGMENT IN IMBALANCE	NUMBER OF VESSELS	GROSS TONNAGE (Gt)	POWER (kW)
Canary Islands polyvalent vessels 0-18 metres long	1	8.31	92.67

#### b) Allocation of fishing opportunities where appropriate

Under the Fisheries Act (Act 3/2001), Spain's central government is responsible for adopting effort regulation measures and allocating fishing opportunities. The imbalanced segments currently subject to these measures are species and fleets from the CNW and Gulf of Cádiz national fishing grounds.

CNW fisheries are managed by distributing the quota allocated to Spain in the EU's annual TAC and Quota Regulation by boat, fishing method and fishing ground.

While there are still species and fisheries that are managed on a global basis for all vessels using a given method, with opportunities distributed by calendar quarter, as has been the case since 2011, others use a distribution model based on individual vessel quotas, and this continued in 2017. In the CNW bottom trawling fleet, quota can be definitively transferred between vessels. This has permitted an orderly fleet restructuring, improving shipping companies' competitiveness and allowing larger quotas for certain species where the activity is more profitable due to vessel characteristics or the area of the fishing ground in which they usually operate. This also modulates the pressure on the resource in order to ensure its sustainability. Moreover, since 2018 temporary assignments of quota kilos during the year have been allowed between vessels using different fishing methods, with assignments of hake quota being authorised for exchange between trawlers on the one hand and gillnets and longlines on the other. This will allow the latter two to become re-balanced. Mackerel and horse mackerel quotas have also been assigned between bottom trawlers and purse seiners.

In the medium term, this system allows fishing opportunities to be redistributed towards more efficient vessels, those with higher quotas or those in a better position to capitalise on their quotas.

This system has proved to be very effective in managing fleets that were imbalanced in the past, such as surface longliners in the North Atlantic or the

trawler fleet covered by the Northwest Atlantic Fisheries Organization (NAFO).

As for the imbalanced fleets in the CNW area, work is underway on a new Ministerial Order that should bring greater flexibility to the use of individual fishing quotas so that they can reach the fleets that need them the most. There are also plans to extend the possibility of definitive inter-vessel transfers of fishing opportunities to other fishing methods that already use individual quotas, such as purse seines, bottom-set longlines or bottom-set gillnets. This new Order will help to strike a balance between existing capacity and available fishing opportunities.

Work has continued on initiatives aimed at characterising discarded catches as reliably as possible as a basis for prioritising measures aimed at ensuring fulfilment of the obligations under the Common Fisheries Policy and improving fleet competitiveness, particularly since the entry into force of the landing obligation on 1 January 2019.



Adaptations to reflect the new nodiscards policy will be made over the coming years.

Turning to the Gulf of Cádiz, the management plan legislation for vessels registered for this fishing zone was updated in 2016 by Ministerial Order AAA/1406/2016 of 18 August 2016 establishing a management plan for vessels registered for the Gulf of Cadiz national fishing ground. This Order allocated fishing opportunities for species subject to the TAC and quota system based on historical catch consumption data, adjusted to reflect the socio-economic circumstances of the fleets targeting the fisheries in question and the various fleets' dependence on each species. In the case of the anchovy and Norway lobster (Nephrops norvegicus) in ICES division IXa, to improve the management of the quotas allocated to Spain and ensure that the fishing fleet is able to operate throughout the year, individual fishing opportunities for this species should be allocated on a vessel-by-vessel basis. Aside from the species subject to TAC and quotas, management measures for Iberian sardine continued in 2018. These measures are based on an exploitation rule, which determines a catch ceiling for the Spanish and Portuguese fleets and has been developed jointly by the two countries.

Ministerial Order AAA/1406/2016 was amended in 2018 and now distributes the Gulf of Cádiz Iberian sardine quota from stocks VIIIc and IXa on an individual basis, using the criteria laid down in Article 27 of Act 3/2001 and taking into account the provisions of Article 17 of Regulation 1380/2013, in order to prevent this fishery from having to close down early in the future. Options for optimising fleet operation must be taken into account when determining the distribution criteria. A new rule on allocating sardine fishing opportunities has also been introduced: 20% is now inversely proportional to each vessel's anchovy quota. The aim here is none other than to balance the quotas for purse seine vessels, which primarily target two species: sardine and anchovy. The Order also establishes the possibility of catch limits or daily or weekly landing ceilings, with the amounts of these to be laid down in a decision by Secretary-General for Fisheries.

A new management plan is to be published for the Mediterranean to reflect the updates contained in the new Multiannual Plan for Demersal Fisheries in the Western Mediterranean, published in June 2019, which regulates fishing effort for the bottom trawl fleet based on fishing days and reduces activity by 10% in 2020, rising to a maximum reduction of 30% in the subsequent four years. It also requires the establishment of area and season closures with the aim of ensuring a young hake survival rate of at least 20%. In order to implement these new developments, Spain will need to amend its Royal Decree 1440/1999 on trawling in the Mediterranean, as well as the different Ministerial Orders



regulating this activity. This does not just apply to trawling but also to purse seiners and small-scale gear, which will be subject to a revision of their technical measures, minimum sizes and closed seasons, plus catch ceilings for purse seiners.

The aim here is to achieve suitable biological and management objectives and bring fishing mortality back to within recommendable limits for the sustainable exploitation of the stocks of these main species before the end of their period of validity.

On the basis of the above and for the purse seine segment in particular, the possibility of establishing quantitative limitations for anchovy and sardine or other overexploited species on a GSA (geographical sub-area) basis is being studied.

Shellfish and internal waters fall within the respective jurisdictions of the Autonomous Communities, which are developing their own management plans including measures to regulate effort and other technical aspects (one example is the Valencia's Council Decree 59/2017 of 5 May 2017 regulating small-scale octopus fishing in the Autonomous Community of Valencia).

c) Temporary cessation of fishing activities: An agreement on the temporary cessation of fishing activities eligible for financing under the European maritime and fisheries fund during 2019 was agreed with the Autonomous Community governments at the Inter-Authority Industry Meeting.

In the Gulf of Cádiz fishing ground, purse seiners and trawlers may be awarded aid for temporary cessation. For the 2019 fishing season, any purse seiner that receives this temporary cessation aid must be inactive for 30 days between December 2019 and January 2020 (the closure period laid down in the management plan), while any trawler that receives aid must be inactive for 30 days between 16 September and 31 October (the closure period laid down in



the management plan).

The CNW ground has a 30-day temporary cessation in place for the small-scale gear fleet (from 15 January to 15 February).

In the Mediterranean, aid may be granted to purse seiners and trawlers whose main activity in the two years prior to the aid application date consisted of using the fishing method covered by the aid scheme in the Mediterranean fishing ground. The compulsory biological cessation for the purse seine fleet can take place in December, January or February, and biological cessions for the trawler fleet take place between January and August. Purse seiners or trawlers receiving this aid must complete 30 days of mandatory inactivity.

Following the recommendations of the International Commission for the Conservation of Atlantic Tunas (ICCAT), the surface longline fleet is subject to a mandatory three-month closure in January, February and March to aid the recovery of the swordfish stock.

The financing required for this measure has been estimated at €15,117,377.

#### d) Other measures

Changes to home ports (i.e. the port where most of a vessel's landings are made and catches are first sold) are now regulated by Royal Decree 1035/2017 of 15 December 2017 on establishing and changing fishing vessels' home ports and amending Royal Decree 1549/2009 of 9 October 2009 on fishing industry regulation and the adaptation to the European Fisheries Fund. This improves coherence between the three essential effort management mechanisms — allocation of possibilities, definitive withdrawal and reduction of activity days — so that the impact of these measures is not countered by the arrival of new vessels at fishing grounds where overexploited or high-risk species are targeted.

A management plan is being drawn up for the Mediterranean, regulating,



among other things, changes to a vessel's home port, aiming to restrict movement towards GSAs that are home to more overexploited or high-risk species.

Moreover, consideration is being given to the potential impact of not authorising temporary method changes involving a switch to an imbalanced segment, always bearing in mind the principle of freedom of establishment of economic activity.

# Measures aimed at improving imbalanced segments' profitability in the short-to-medium term

Within the framework of the European Maritime and Fisheries Fund, priority is given to the following measures with the aim of improving the situation of imbalanced fleet segments:

- Measures aimed at promoting sustainable and resource-efficient fisheries — specific objectives:
- Reduction of the impact of fisheries on the marine environment, including the avoidance and reduction, as far as possible, of unwanted catches;
- Protection and restoration of aquatic biodiversity and ecosystems;
- Enhancement of the competitiveness and viability of fisheries enterprises, including of small—scale coastal fleet, and the improvement of safety and working conditions;
- Provision of support to strengthen technological development and innovation, including increasing energy efficiency, and knowledge transfer;
- Development of professional training, new professional skills and lifelong learning;



- Professional advisory services;
- Investments on board;
- Added value, product quality and use of unwanted catches;
- Diversification.

In 2018, 355 aid applications were approved for these purposes, with a total investment of around €9,786,256.

- Measures aimed at increasing employment and territorial cohesion specific objectives:
- Promoting economic growth and social inclusion;
- Diversifying the range of activities carried out in the fisheries industry.

In 2018, 211 aid applications were approved for these purposes, with a total investment of around €5,898,671.

- Measures aimed at improving the marketing and processing of fishery products, seeking out new markets — specific objectives:
- Designing production and marketing plans;
- Storage aid;
- Marketing measures;
- Processing of fishery products;
- Labelling local species;
- Promoting species of limited commercial value;
- Local product promotion campaigns.

In 2018, 239 aid applications were approved for these purposes, with a total investment of €28,660,891.