REPUBLIC OF CYPRUS

MINISTRY OF AGRICULTURE NATURAL RESOURCES AND ENVIRONMENT	**DEPARTMENT OF FISHERIES AND MARINE RESEARCH 1416 NICOSIA**

CYPRUS ANNUAL REPORT ON EFFORTS DURING 2017 TO ACHIEVE A SUSTAINABLE BALANCE BETWEEN FISHING CAPACITY AND FISHING OPPORTUNITIES

Nicosia, May 2018

Table of Contents

Introduction

Article 22 of Regulation (EU) No. 1380/2013 provides for the submission of an annual report by the Member States on their effort during the previous year to achieve a sustainable balance between fishing capacity and fishing opportunities. The structure of the report is in accordance with the current Guidelines[1] developed by the Commission.

The relevant findings and advice of STECF (most updated STECF-17-18 reviewing EWG-17-08) have also been taken into account for the preparation of the report.

A. Description of the fishing fleets in relation to fisheries: developments during the previous year, including fisheries covered by multiannual management or recovery plans

A.(i)   *Description of fleets*

The Cyprus fishing fleet included in the Fleet Register on the 31st of December 2017 was composed of 817 fishing vessels (source: data submitted under 2018 Fleet Economic Data Call). **Table 1** provides general information on the Cyprus fishing fleet over the period 2008-2017, while **Table 2** provides information on the evolution of the fleet segments.

Table 1. *General description of the Cyprus fishing fleet (2008-2017)*

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of vessels	1197	1177	1013	1079	1082	1001	951	905	838	817
of which inactive	666	266	104	122	175	68	97	65	70	34
Tonnage (GT)	6246,2	5090,7	4399,7	4101,4	4042,8	3384,2	3511,2	3624,9	3390,3	3504,8
Engine power (kW)	52782,4	49526,3	44379,9	45881,3	45907,7	41514,6	41111,2	41227,2	36392,6	37686,2

It should be noted that there are restrictions on the number of licenses provided each year in the different fleet segments, and that the Fleet Register includes a number of vessels that are not licensed. It is clarified that each license may have been given or suspended at any time during the year; therefore, the total number of licenses at any given time may differ from the total number of licenses issued during the year. It is further clarified that a vessel may receive more than one license; the assignment of such vessels to a fleet segment is based on the predominant fishing gear.

The terms (obligations and restrictions) for each fishing license category are provided online at the following link (in greek):
http://www.moa.gov.cy/moa/dfmr/dfmr.nsf/All/377DC6D5E1EC841642257D9E002F3AF2?OpenDocument

---

Table 2. *Description and development of Cyprus fishing fleet segments.*

Fishing technique		Vessel length	2017			2016			2008			Change in 2017-2008		
Description	Code		No.	GT	kW	No.	GT	kW	No.	GT	kW	No. %	GT %	kW %
Vessels using Polyvalent 'passive' gears only	PG	0-< 6 m	27	33	1143	28	35	1025	32	30	844	-16	12	36
Vessels using Polyvalent 'passive' gears only	PG	6-< 12 m	296	1107	16127	290	1065	14378	465	1540	19968	-36	-28	-19
Vessels using Polyvalent 'passive' gears only (category C)	PGO	0-< 6 m	347	348	9405	342	346	9168				100	100	100
Vessels using Polyvalent 'passive' gears only (category C)	PGO	6-< 12 m	73	216	2172	73	225	2283				100	100	100
Vessels using Polyvalent 'passive' gears only	PGP	12-< 18 m	33	1009	5394	29	883	4523	25	815	4947	32	24	9
Demersal trawlers and/or demersal seiners	DTS	24-< 40 m	7	735	2328	6	643	2070	9	983	3232	-22	-25	-28
INACTIVE		0-< 6 m	20	18	585	29	28	849	355	344	8298	-94	-95	-93
INACTIVE		6-< 12 m	14	39	531	40	132	1872	294	1703	12380	-95	-98	-96
INACTIVE		12-< 18 m				1	34	224	11	171	1404	-100	-100	-100
INACTIVE		18-< 24 m							3	264	733	-100	-100	-100
INACTIVE		24-< 40 m							3	397	976	-100	-100	-100
		TOTAL	817	3505	37686	838	3390	36393	1197	6246	52782	-32	-44	-29

The vessels using *Polyvalent passive gears with length 0-< 6m and 6-< 12m* compose the small scale inshore fleet and operate mainly with bottom set nets and bottom longlines, targeting demersal species. As it is shown in Table 2, they represent the large majority of the fishing vessels in the Register (95%). Cyprus Fisheries Law[1] provides for a limited number of licenses for this segment annually and divides it into three (3) subcategories: vessels with fishing license category A', vessels with fishing license category B' and vessels with fishing license category C'.

---

[1] Basic Fisheries Law Cap. 135 and subsequent amendments of 1961 to 2016,
 Fisheries Regulations of 1990 to 2012 based on Article 6 of the Basic Law

The vessels with license A' or B' have mostly length 6-<12m and are allowed to operate every day all year round, with a number of restriction measures on the use of fishing gears and minimum landing sizes, according to the national and community law. The main gears used are trammel nets (GTR), set gillnets (GNS) and set longlines (LLS). Coding used in the current report for Polyvalent passive gears with length 0-< 6m and 6-< 12m of category A&B is *PG VL0006 (Category A&B)* and *PG VL0612 (Category A&B).*

The vessels with license category C' are mostly 0-<6m and have a limited fishing effort. By Law, the maximum allowable working days for this category are 70 days, and can be exercised only in the weekends. There are very strict measures on the use of fishing gears. Maximum allowable length of nets is 600m, and maximum number of longlines is 2 with no more than 200 hooks each. The primary gear used is trammel nets (GTR) and the secondary gear is hand and pole lines [LHP]. Coding used in the current report for Polyvalent passive gears with length 0-< 6m and 6-< 12m of category C is *PGO VL0006 (Category C)* and *PGO VL0612 (Category C).*

The vessels using *Polyvalent 'passive' gears with length 12-<18m* range from 12-26m, but are clustered in one length category since the large majority of them are between 12-18m; information on the clustering of this fleet segment is provided in Table 5, in Section F. This fleet segment is engaged in two fisheries; mainly in the large pelagic fishery using drifting longlines and operating around Cyprus waters and the eastern Mediterranean (targeting swordfish, bluefin tuna and albacore), but also in the inshore demersal fishery using mostly set nets and set longlines. A limited number of licenses are provided for this segment annually. Furthermore, closed seasons, restriction measures on the use of gears and minimum landing sizes are employed, in accordance to national and community regulations.

In addition, in accordance with ICCAT management measures, specific fishing licenses are issued for targeting bluefin tuna, swordfish and albacore; the maximum allowable number of specific licenses differs depending on the species. During 2017 specific licenses were issued for targeting large pelagic species using drifting longlines. One vessel received also specific license for targeting bluefin tuna as purse seiner.

Demersal trawlers range from 19-27 m. Information on the clustering of this fleet segment to 24 -<40m is provided in Table 5, in Section F. The licensed trawlers are categorised, based on their type of license, in those fishing in the territorial waters of Cyprus and those fishing in international waters (eastern and central Mediterranean). Restriction measures on the use of trawl nets and minimum landing sizes are employed for all licensed trawlers, in accordance with national and community law. For the trawlers fishing in territorial waters a limited number of licenses is provided every year, and an extended closed season (from 1st of June until the 7th of November) is employed since the '80s. A *Management Plan for the Bottom Trawl Fishery Within the Territorial Waters of Cyprus* is implemented since the end of 2011, based on Article 19 of Council Regulation (EC) 1967/2006 (Mediterranean Regulation). The national technical measures introduced in the Management Plan for the Bottom Trawl Fishery include the restriction of the number of licensed bottom trawlers to 2, and the restriction of 2 areas from fishing with trawl nets on a rotational basis. Other provisions of the Mediterranean Regulation in the relevant Management Plan include minimum distance from the shore and minimum depth.

A.(ii) *Link with fisheries*

The bottom trawl fishery in the territorial waters and the inshore fishery with polyvalent passive gears target a mix of demersal species, as it is the case in all Mediterranean demersal fisheries. The exploited stocks are not shared with other countries' fleets. Landings of both fisheries are mainly composed by *Spicara smaris*, *Boops boops*, *Mullus barbatus*, *M. surmuletus*, *Pagellus erythrinus* and cephalopods (*Octopus vulgaris*, *Loligo vulgaris* and *Sepia officinalis*). The inshore fishery with

polyvalent passive gears catches also relatively large quantities of *Sparisoma cretense, Spicara maena* and *Siganus* spp.

The average landings of the bottom trawl fishery in territorial waters and the inshore demersal fishery with polyvalent passive gears, for the period 2014-2016, were ~ 120 t and 625 t respectively. The average landings of the main demersal commercial species of each fishery for the same period are provided in **Table 3**.

Bottom trawlers in international waters operate in the central and eastern Mediterranean, catching *Merluccius merluccius*, *P. erythrinus*, *M. surmuletus*, *M. barbatus*, *Spicara* spp., *B. boops* and cephalopods. The average landings in international waters for the period 2014-2016 were ~40 t in the central Mediterranean and ~30t in the Eastern Mediterranean.

Concerning the large pelagic fishery, polyvalent vessels operate in the Eastern Mediterranean, catching *Xiphias gladius*, *Thunnus alalunga* and *Thunnus thynnus* with drifting longlines. *T. thynnus* is under a multiannual recovery plan adopted by ICCAT, incorporated in Council Regulation (EU) 2016/1627. A 15-year Recovery plan of Mediterranean swordfish was adopted in 2016 by ICCAT (Recommendation 16-05), and is expected to be transposed into EU legislation. The average landings of the above large pelagic species for the period 2014-2016 are provided in **Table 4**.

A detailed table with information on landings by species and by gear in 2016 is provided in **Annex I**.

Table 3: Average landings (t) of the main demersal species in Cyprus waters for the period 2014-2016.

	Species	Inshore fishery with polyvalent passive gears	Trawl fishery (territorial waters)
BOG	*Boops boops*	96	11
BPI	*Spicara maena*	34	
MUR	*Mullus surmuletus*	32	3
MUT	*Mullus barbatus*	8	15
PAC	*Pagellus erythrinus*	6	5
PRR	*Sparisoma cretense*	33	
SBA	*Pagellus acarne*	14	9
SPC	*Spicara smaris*	35	57
SPI	*Siganus* spp.	28	
SWA	*Diplodus sargus*	14	
CTC	*Sepia officinalis*	19	
OCT	*Octopus vulgaris*	28	

Table 4: Average landings (t) of the main species of the Cyprus large pelagic fishery for the period 2014-2016 caught by surface longlines.

Species		Landings (LLD) in tons
ALB	*Thunnus alalunga*	507
BFT	*Thunnus thynnus*	33
SWO	*Xiphias gladius*	50

A.(iii) Development *in fleets*

As shown in Table 2, from 2008 until 2017 the Cyprus fishing fleet was reduced by 32% in number of vessels, 44% in tonnage and 29% in power.

Following the creation by **Law** in 2007 of a new category of small scale inshore fishing license (category C, see section A(i)), during the period 2004-2017 there has been a capacity increase in the fleet segment "vessels *using polyvalent gears 0-<6m*" with the entry in the Register of a large number of vessels with length <6m, that belong to category C. Over the period 2008-2017 there has also been a capacity increase in the fleet segment *Polyvalent 'passive' gears with length 12-<18m.* For other fleet segments, there has been a capacity reduction.

It should be mentioned that from the 1st of May 2004 (date of accession of Cyprus to the EU) until the 31st of December 2017, exits financed with public aid involved vessels from the three main fishing fleets as follows:
-   destruction of 17 vessels using polyvalent passive gears (12-18m LOA)
-   destruction of 4 demersal trawlers and change of activity (RET) of 2 demersal trawlers,
-   destruction of 173 small scale inshore vessels (<12m, category license A&B): 107 vessels destructed in 2013, 65 vessels in 2015 and 1 vessel in 2016 (January).

B. Impact of fishing effort reduction schemes on fishing capacity

B.(i) Statement *of effort reduction schemes*

An action plan was made in 2013 and 2014 concerning small scale inshore vessels (vessels with polyvalent passive gears 0-<12m with category licenses A&B), following the demonstration of imbalance between their fishing capacity and fishing opportunities in the 2013 & 2014 Cyprus Balance Reports. The basic tool for achieving balance was the permanent cessation of fishing activities through scrapping or heritage function. The action plan that was included in the 2013 and 2014 Balance Reports was implemented during 2015 and was finalised early 2016.

The *Management Plan for the Bottom Trawl Fishery Within the Territorial Waters of Cyprus*, which is based on Article 19 of Council Regulation (EC) 1967/2006 (Mediterranean Regulation), is implemented since the end of 2011. The plan restricts the number and the fishing activity of the bottom trawlers operating in territorial waters. An action plan was proposed in the 2016 Balance Report for the 2 demersal trawlers operating in territorial and international waters.

B.(ii) Impact *on fishing capacity of effort reduction schemes*

Following the action plan included in the 2013 and 2014 Balance Reports, during 2015 65 small scale inshore vessels (and one vessel in January 2016) were permanently withdrawn. The resulting

capacity reduction was 189.74 GT (186.62 GT in 2015 and 1.55 GT in 2016) and 2863 kW (2797.08 in 2015 and 14.92 in 2016).

The national technical measures introduced in the Management Plan for the Bottom Trawl Fishery include the restriction of the number of licensed bottom trawlers to 2, and the restriction of 2 areas from fishing with trawl nets on a rotational basis (northwest part of Cyprus from 8 November – 15 February every year and southeastern part of Cyprus from 16 February-31 May every year). The 2016 action plan for the 2 demersal trawlers operating in territorial and international waters did not result in any capacity reductions.

C. Statement of compliance with entry / exit scheme and with level of reference

Cyprus ensures that at all times the fishing capacity of its fleet does not exceed at any time the fishing capacity ceilings in tonnage (GT) and power (kW) set out in Annex II of Regulation (EU) 1380/2013, according to the provisions of Article 23 of Regulation (EU) 1380/2013.

The evolution of the fleet capacity of the Cypriot fleet (in tonnage and power) compared to its tonnage ceiling, as registered in the Community Fleet register, is provided in **Annex II**.

D. Strength and weaknesses of the fleet management system together with plan for improvements and information on general level of compliance with fleet policy instruments

D.(i)   *Summary of weaknesses & strengths of fleet management system*

The Department of Fisheries and Marine Research (DFMR) is the single authority responsible for the management of fisheries resources and fishing fleet (management measures, issue and management of fishing licenses, control of fishing activities and VMS, record of logbooks, structural funds concerning fisheries). Management measures employed refer mostly to effort restrictions. Until 2016, TACs have been applicable only for bluefin tuna, while from 2017 the quota management system is also applicable for Mediterranean swordfish (as in the rest of the Mediterranean countries).

Strengths of fleet management system
- Having a single authority for the management of fisheries resources and fishing fleet, as mentioned above, the following are ensured: continuous and precise update of the Fleet Register, monitoring of entries and exits, rapid and efficient evaluation of the eligibility of possible requests to increase tonnage, collection of all necessary information related with the management of the fleet, efficient effort monitoring through VMS and cross-check of effort logbook data, and efficient monitoring and inspection of bluefin tuna and swordfish catches.
- The upgrading of the Cyprus Fleet Register system was finalized during 2017. With this upgrading, the system is automatically connected with the DFMR Database on Licenses, thus any modifications on the licenses is automatically updated in the Fleet Register system.
- The Cyprus Fisheries Law provides for a maximum limit of fishing licenses for the different fleet segments, allowing the Director of the DFMR adjustments on the number of licenses issued year-by-year.
- Fishing licenses are linked to both the vessels and the fishermen.

Weaknesses of fleet management system
- At the moment, the Cyprus Fisheries Law provides for a short duration of fishing licenses (1-3 years), with the possibility of renewal. The evaluation of the applications for the fishing licenses, the selection and the issue of licenses require high administrative effort and are very time-consuming, considering the limited number of DFMR employees engaged with licensing. Furthermore, this short duration of licenses may not be considered secure enough by the fishermen, and may lead to an "opportunistic" fishing behavior with no long-term vision for economic sustainability.
- The absence of auction markets, the existence of many small landing sites and the fact that the majority of the fishing fleet is under 10m create difficulties in monitoring and evaluating the accuracy of the landings and fishing effort.

D.(ii) Plan *for improvements in fleet management system*

The Cyprus Fisheries Law and Regulations are under revision process. The modifications concern the criteria for obtaining a fishing license, adjustment of the maximum allowable number of fishing licenses of the inshore small scale fleet (in accordance with scrapping schemes), multi-year duration of fishing licenses, possibility of transferable licenses, and further restrictions for the recreational fishery. The modifications aim to adjust the fishing capacity of the small scale inshore fleet, relieve administration burden on the issue of licenses, reduce the fishing effort exercised by the recreational fishery and assist the work of the control division. During 2017 the proposed modifications of the Cyprus Fisheries Law and Regulations were approved by the Cyprus Council of Ministers and were submitted to the Parliament, for approval.

It should be clarified that the adjustment of the maximum allowable number of fishing licenses of the inshore small-scale fleet in accordance with scrapping schemes is already been done; the maximum number of licenses was adjusted in 2014, following the 2013 scrapping scheme, and was further adjusted in 2016 following the reduction scheme in 2015 (and early 2016).

D.(iii) *Information on general level of compliance with fleet policy instruments*

Cyprus considers a priority the adjustment of the fishing capacity of its fleet, for achieving a balance between the resources and the fishing capacity. It complies with the provisions of Article 23 of Regulation (EU) 1380/2013, Regulation (EC) 26/2004 (repealed in 2018 by Reg. (EU) 2017/218) on the management of entries and exits, the increase in tonnage (for improving safety, working conditions, hygiene and product quality), the collection, transmission and exchange of information and the financial support through the EMFF on the adaptation of its fishing fleet.

Specifically, Cyprus ensures that at all times the fishing capacity in tonnage (GT) and power (kW) do not exceed the fishing capacity ceilings set out in Annex II of Regulation (EU) 1380/2013, through a continuous and precise update of the Fleet Register, evaluation of the eligibility of possible requests to increase tonnage, monitoring of entries and exits. Necessary information related with the management of the fleet are collected, for evaluating the availability of fisheries resources in relation to the active Cyprus fleet.

Efforts to implement the National and Community Legislation continued in 2017 in order to ensure compliance with the Common Fisheries Policy of the EU and to accomplish the best possible management of the resources.

During 2017, the decree put into force was the Application of Community Decisions and Community Regulations that concern the Fisheries Sector, Law 134/2006 (12th Modification of Annexes of Law - Decree 323/2017). The Decree includes, among others, Regulation (EU)

2016/1627on a multiannual recovery plan for bluefin tuna, delegated Regulation (EU) 2017/establishing a discard plan for certain demersal fisheries in the Mediterranean Sea, Regulation (EU) 2017/127 fixing fishing opportunities for 2017, Regulation (EU) 2017/218 on the Union fishing fleet register, and new Legislation on Data Collection (Regulation (EU) 2017/1004, Implementing Decision (EU) 2016/1251, Implementing Decision (EU) 2016/1701).

The DFMR is using modern technologies in a wise, proper and effective way, in order to identify and combat illegal fishing activities. During 2017, the monitoring of fishing activities via VMS of the vessels with overall length more than 12 meters and the cargo vessels was successfully carried out by the Fishing Monitoring Center (FMC). The VMS, which was upgraded in 2015, provides more information and ease of use, but also it can be used in combination with the Electronic Reporting System (ERS) for the conduct of cross checks. ERS Declarations are uploaded on VMS and can be crosschecked visually. Data exchange from the VMS with other Member States, the EU, the EFCA (European Fisheries Commission) and NEAFC (North East Atlantic Fisheries Commission) continued successfully throughout 2017.

Electronic Reporting System is compulsory for the fishing vessels with length more than 12m, with some exceptions for vessels between 12-15m Electronic sales note declarations for the registered buyers with an annual financial turnover in first sales of fisheries products of more than €20 000 is also compulsory. The FMC is monitoring the fishing activities of the vessels via ERS, logbooks, sales notes and other available information such as AIS radar images and invoices. Regular cross checks are performed to validate information coming from different sources. In 2017, the new sales notes and Fishing activity reports were not used, this is expected now to be in full effect in 2019. Also, it is expected that catch reporting will be automatic and sent to the EU via the transportation layer by mid-2018.

In 2016 the Fisheries inspection and Control System (FICS) was delivered, in which Fishery Inspectors submit data relevant to control and inspections of fishing vessels and recreational freshwater dam fishery, as well as data relevant to the trade of fishery products. Unfortunately, the database has many problems which renders it ineffective as a control tool. In 2017 a contract was awarded for a new IT strategy for DFMR and a new data warehouse and validation system according to the Rules of the DG MARE IFDM Unit. The validation system is expected to be functional by 2021.

During 2017, DFMR Inspectors made in total 109 patrols at sea and 505 patrols along the coast, in ports and fishing shelters, at selling / storage facilities of fishery products and to inland waters. Specifically, for the control of fishing activities of bluefin tuna and swordfish DFMR carried out the following patrols regarding vessels targeting these species using longlines: 16 patrols at sea within the framework of the Joint Deployment Plan, 16 patrols at sea at national level and 126 patrols at national level at ports and fishing shelters, and at selling / storage facilities of fishery products.

During the above-mentioned patrols, a total of 537 inspections and 2044 controls were carried out for compliance purposes with the National and Community Legislation. Within the year 2017, DFMR reported a total of 227 infringements of different categories of offenses.

E. Information on changes of the administrative procedures relevant to the management of the fleet

As mentioned also in section D (ii), the Fisheries Law is under amendment, among others for modifying the management system of limited licenses (criteria for obtaining a fishing license, duration and transferability of fishing licenses).

With the upgrading of the Fleet Register, which was finalised during 2017, procedures for cross-checking information and updating any modifications of the vessel, the license and owner status have become automatic.

As mentioned in section D (iii), during 2017 a contract was awarded for a new IT strategy for DFMR and a new data warehouse and validation system according to the Rules of the DG MARE IFDM Unit. Towards this new strategy, all current information systems and procedures for collecting, processing and disseminating data by the DFMR are being reviewed, for proposing best ways for fulfilling EU and national requirements related to all the activities of the Department.

F. Estimation and discussion of balance indicators

In accordance with the 2014 Balance Indicator Guidelines adopted by the Commission, two *biological* (sustainable harvest indicator, stocks-at-risk indicator), two *economic* and two *vessel use indicators* should be used for assessing the balance of the different Cyprus fleet segments.

For the preparation of the 2018 Report, Cyprus has calculated the indicators required by the 2014 Commission Guidelines, considering that there has not been any further revision of the Guidelines. Data used are the ones transmitted by Cyprus to the Commission through the 2018 Official Fleet Economic Data Call. For the calculations, the requirement of Article 22§3 of Regulation (EU) 1380/2013, to draw "*separate assessments for fleets operating exclusively outside Union waters*" was considered; to meet this requirement, a disaggregation of the trawler fleet was made where possible.

STECF 17-08 notes that "*balance indicators should only be used to highlight fleet segments which might have been out of balance with their fishing opportunities, and which might warrant further consideration and investigation to determine whether there is a problem with balance that might require an action plan*". The Group further considers that "*the current methodology …. is of limited use in assessing the balance between fleet capacity and fishing opportunity and is not sufficient to determine the need for an action plan to address any imbalance indicated*." Given that the Commission guidelines on balance indicators have not been updated, in our knowledge, Cyprus takes into account the comments made by STECF 17-08 when assessing the balance of its fleet segments.

Information is provided below on the clustering of fleet segments that were done for the estimation of indicators.

Clustering of fleet segments

The segments that have been clustered are shown on **Table 5** "Economic Clustering of fleet segments", where the clusters are named after the biggest segment in terms of number of vessels. There is only one demersal trawler below 24m and only one demersal trawler above 40m thus, for sampling purposes as well as for confidentiality reasons both of them were regrouped in the >24m length group (up to 28m). All groups are engaged in the same metier and they target the same group of species with the same gear despite their vessels length.

The same as above stands for the active vessels using polyvalent passive gears with length >=12m, where the vessels belonging in the length group 18-<24m are only 4 and the vessels above the 24m length group are only1. Thus for sampling purposes, as well as for confidentiality reasons they were

regrouped in the 12-<18m length group. It is noted that there were 24 active vessels with length less than 18m (length group 12-<18m). All the groups of vessels using polyvalent passive gears with length> =12m are engaged in the same metiers since these vessels target the same group of species with the same gears despite their vessels length; this is evident from the landings value and volume.

It is emphasized that the cost structure of the clustered segments does not change much. It is important to have in mind that for all segments a census was performed.

Table 5: Economic Clustering of fleet segments

Name of the clustered fleet segments	Total number of vessels in the cluster by the 31st of December of the sampling year	Fleet segments which have been clustered	Number of vessels in the segment by the 31st of December of the sampling year
Passive gears: Polyvalent "passive gears only" 12-<18m*	29	Polyvalent passive gears 12-18 m	24
		Polyvalent passive gears 18-24 m	4
		Polyvalent passive gears 24-40 m	1
Demersal trawlers 24-<40m*	6	Demersal trawlers 18-24 m	1
		Demersal trawlers 24-<40m	5

F(i) *Biological Sustainability Indicators*

Sustainable Harvest Indicator

The Sustainable Harvest Indicator (SHI) was calculated by the DFMR in accordance with the current guidelines.

Value and catch data used were based on data provided by Cyprus through the 2017 Official Fleet Economic Data Call. For calculating the indicator for the trawlers (DTS), more disaggregated data had to be used, at vessel level. The more disaggregated data were required for calculating the indicator *separately for the fleet operating exclusively outside Union waters (*CYP DTS VL2440 fishing only in international waters), and also for including in the indicator for the DTS fleet segments the catches of the trawlers that were participating at the large pelagic fishery using drifting longlines.

The SHI indicator was calculated using the available values of $F/F_{msy\ proxies}$ for the stocks concerned.

In the STECF-17-08 report it is stated that the EWG 17-08 Prep. Meeting "*agreed that the SHI should take into account all stocks for which the most recent assessment was undertaken in 2013 or more recently*". Cyprus has followed this approach for the calculation of the SHI in the current report.

Information on F/Fmsy on stocks exploited by Cyprus fleets was extracted from GFCM reports, available at http://www.fao.org/gfcm/reports/en/. The output from assessments carried out by STECF working groups, compiled by JRC and available at https://stecf.jrc.ec.europa.eu/dd/medbs/ram was also reviewed; for the stocks exploited by Cyprus fleets, no additional relevant data from the previous GFCM reports were found. Information on tuna / tuna-like species was obtained from the ICCAT website (https://iccat.int/en/).

The Biological Indicator Visualisation Tool, mentioned in the STECF-17-08 report and available at http://sirs.agrocampus-ouest.fr/stecf_balance_2017/ was consulted.

Table 6 provides the calculations made for estimating SHI for the different fleet segments. As seen from Table 6, the indicator SHI covers stocks that constitute at least 40% of the value of landings for two fleet segments for the period 2014-2016, the demersal trawlers fishing in both territorial and international waters and the polyvalent fleet 12-18m length. As regards the trawlers fishing exclusively in non-Union waters, the indicator represents more than 40% of the value of landings for 2014 and 2016. In the case of the small scale inshore fleet, it is difficult to reach the 40% of the value of landings due to the limited available number of stock assessments, and the high number of species caught. The species (stocks) represented in the indicator are important species in value and catch, and are been traditionally assessed; therefore, this indicator is considered the best available scientific information for assessing biologically the balance of the small scale inshore fleet.

Table 7 provides the values of the SHI for the different fleet segments, in traffic light system According to the 2014 Balance Indicator Guidelines, for SHI "*Values of the indicator above 1 indicate that a fleet segment is, on average, relying for its income on fishing opportunities which are structurally set above levels corresponding to exploitation at levels corresponding to MSY*". Therefore, where SHI >1 it is considered 'out of balance' and is indicated in red; where SHI < 1 it is considered 'in balance' and indicated in green; where SHI=1 it is indicated with yellow.

Table 7: Estimated Sustainable Harvest Indicator for the Cyprus fleet segments in traffic light system

Fleet segment	Sustainable Harvest Indicator		
	2014	2015	2016
CYP DTS VL2440 (fishing in territorial and international waters)	0.6	0.7	0.6
CYP DTS VL2440 (fishing only in international waters)	1.9	1.9	1.9
CYP PGP VL1218	1.2	1.2	1.0
CYP PG VL0612 (Category A&B)	1.1	1.0	1.1
CYP PG VL0006 (Category A&B)	1.0	1.1	0.9
CYP PGO VL0612 (Category C)	1.0	1.0	1.0
CYP PGO VL0006 (Category C)	1.0	1.0	1.1

Table 6: Calculation of SHI for the fleet segments.

Fleet	CYP DTS VL2440 (fishing in territorial and international waters)					CYP DTS VL2440 (fishing only in international waters)					CYP PGP VL1218				
Year	stock	Fi/Fmsy	Vi	% in total V	% in total Catch	stock	Fi/Fmsy	Vi	% in total V	% in total Catch	stock	Fi/Fmsy	Vi	% in total V	% in total Catch
2016	bog-gsa25	1,28	67803,61	11,3%	11,1%	hke-gsa12_16	3,70	36745,29	**14,3%**	**14,5%**	bog-gsa25	1,28	3332	0,1%	0,1%
	mut-gsa25	0,8	152006,4	25,3%	12,4%	mur-gsa15_16	4,1	2116,4	**0,8%**	**0,4%**	mut-gsa25	0,8	6284	0,3%	0,1%
	spc-gsa25	0,14	186368	31,0%	42,4%	mut-gsa13_14	2,48	0	**0,0%**	**0,0%**	spc-gsa25	0,14	3606	0,2%	0,1%
	alb	1	563	0,1%	0,2%	mut-gsa15_16	1,20	0	**0,0%**	**0,0%**	alb	1	1278547	56,7%	83,1%
	swo	1,82	744	0,1%	0,1%	mut-gsa24	1,3	130076,8	**50,5%**	**33,5%**	bft	0,339	470519	20,9%	8,6%
						mur-gsa26	3,57	0	**0,0%**	**0,0%**	swo	1,82	325813	14,4%	6,0%
	SHI= 0,58		**sum**	**67,8%**	**66,2%**	**SHI= 1,86**		**sum**	**65,6%**	**48,4%**	**SHI= 0,98**		**sum**	**92,6%**	**98,0%**
2015	bog-gsa25	1,28	58722	6,7%	6,6%	hke-gsa12_16	3,70	56674	7,1%	6,5%	bog-gsa25	1,28	40285	3,0%	1,6%
	mut-gsa25	0,8	215680	24,7%	7,8%	mut-gsa13_14	2,48	3000	0,4%	0,2%	mut-gsa25	0,80	2014	0,2%	0,0%
	spc-gsa25	0,14	220976	25,3%	26,5%	mut-gsa15_16	1,20	0	0,0%	0,0%	spc-gsa25	0,14	2153	0,2%	0,1%
	alb	1	133506	15,3%	38,6%	mut-gsa24	1,30	163450	20,4%	12,8%	alb	1,00	779057	58,6%	82,8%
	swo	1,82	3543,75	0,4%	0,2%	mur-gsa15_16	4,10	4757	0,6%	0,3%	bft	0,34	66167	5,0%	4,4%
	bft	0,339	132	0,02%	0,02%	mur-gsa26	3,57	1846	0,2%	0,1%	swo	1,82	365724	27,5%	8,4%
						bft	0,339	681	0,1%	0,2%					
						swo	1,82	23030	2,9%	2,6%					
						alb	1,00	31668,6	3,9%	16,5%					
	SHI= 0,66		**sum**	**72,5%**	**79,8%**	**SHI= 1,86**		**sum**	**31,6%**	**22,8%**	**SHI= 1,21**		**sum**	**94,5%**	**97,3%**
2014	bog-gsa25	1,28	63869	6,3%	5,3%	hke-gsa12_16	3,70	57675	7,8%	5,4%	bog-gsa25	1,28	14498	0,9%	0,5%
	mut-gsa25	0,8	261109	25,6%	8,5%	mut-gsa13_14	2,48	0	0,0%	0,0%	mut-gsa25	0,8	7701	0,5%	0,1%
	spc-gsa25	0,14	294776	28,9%	40,7%	mut-gsa15_16	1,20	0	0,0%	0,0%	spc-gsa25	0,14	8745	0,5%	0,5%
	mut-gsa24	1,30	8424	0,8%	0,3%	mut-gsa24	1,30	87737	11,8%	6,0%	alb	1	940803	58,5%	80,6%
	alb	1	108922	10,7%	24,0%	mur-gsa15_16	4,10	5467	0,7%	0,4%	bft	0,339	73674	4,6%	3,1%
	swo	1,82	3456	0,3%	0,2%	mur-gsa26	3,57	5408	0,7%	0,3%	swo	1,82	365724	22,7%	8,8%
						alb	1	65196	8,8%	24,2%					
						swo	1,82	90630	12,2%	9,2%					
						bft	0,339	11670	1,6%	2,1%					
	SHI= 0,62		**sum**	**72,5%**	**79,1%**	**SHI= 1,86**		**sum**	**43,5%**	**47,6%**	**SHI= 1,17**		**sum**	**87,8%**	**93,6%**

(Table 6 cont..)

Fleet	CYP PG VL0612 (A&B category)					CYP PG VL0006 (A&B category)					CYP PGO VL0612 (C category)					CYP PGO VL0006 (C category)				
Year	stock (i)	Fi/Fmsy	Vi	% in total V	% in total Catch	stock (i)	Fi/Fmsy	Vi	% in total V	% in total Catch	stock (i)	Fi/Fmsy	Vi	% in total V	% in total Catch	stock (i)	Fi/Fmsy	Vi	% in total V	% in total Catch
2016	bog-gsa25	1,28	453221	12,7%	15,7%	bog-gsa25	1,28	**22799,5**	8,7%	**12,2%**	bog-gsa25	1,28	2907,6	4,6%	7,5%	bog-gsa25	1,28	12309,7	4,4%	7,6%
	mut-gsa25	0,8	61386	1,7%	1,1%	mut-gsa25	0,8	**2180,64**	0,8%	**0,6%**	mut-gsa25	0,8	1026,48	1,6%	0,9%	mut-gsa25	0,8	2912	1,0%	0,9%
	spc-gsa25	0,14	94310	2,6%	4,5%	spc-gsa25	0,14	**10626**	4,1%	**7,9%**	spc-gsa25	0,14	876	1,4%	3,4%	spc-gsa25	0,14	2352	0,8%	2,0%
	alb	1	10281	0,3%	0,9%															
	swo	1,82	568	0,02%	0,01%															
	SHI= 1,05		sum	17,4%	22,1%	SHI= 0,91		sum	13,7%	20,6%	SHI= 0,97		sum	7,6%	11,8%	SHI= 1,05		sum	6,2%	10,6%
2015	bog-gsa25	1,28	486608	12,5%	14,51%	bog-gsa25	1,28	30128	11,0%	12,5%	bog-gsa25	1,28	2881,1	4,2%	7,6%	bog-gsa25	1,28	13870	4,2%	7,6%
	mut-gsa25	0,8	138247	3,6%	1,20%	mut-gsa25	0,8	696	0,3%	0,1%	mut-gsa25	0,8	1168,5	1,7%	0,9%	mut-gsa25	0,8	5625	1,7%	0,9%
	spc-gsa25	0,14	142892	3,7%	6,70%	spc-gsa25	0,14	8940	3,3%	5,9%	spc-gsa25	0,14	487,8	0,7%	2,0%	spc-gsa25	0,14	2348	0,7%	2,0%
	alb	1	15056,9	0,4%	1,31%	alb	1	2304,9	0,8%	2,8%	alb	1	5,4	0,01%	0,04%	alb	1	26,2	0,01%	0,04%
	swo	1,82	6076,7	0,2%	0,11%	swo	1,82	5636,2	2,1%	1,4%										
	SHI = 0,99		sum	20,3%	23,8%	SHI = 1,11		sum	17,4%	22,7%	SHI = 1,03		sum	6,7%	10,6%	SHI = 1,03		sum	6,7%	10,6%
2014	bog-gsa25	1,28	563514	14,7%	18,3%	bog-gsa25	1,28	26681	10,0%	12,2%	bog-gsa25	1,28	2604	4,7%	7,6%	bog-gsa25	1,28	12712	4,8%	7,6%
	mut-gsa25	0,8	160603	4,2%	1,6%	mut-gsa25	0,8	4129	1,5%	0,6%	mut-gsa25	0,8	1022	1,9%	0,9%	mut-gsa25	0,80	4992	1,9%	0,9%
	spc-gsa25	0,14	123759	3,2%	5,6%	spc-gsa25	0,14	6761	2,5%	4,6%	spc-gsa25	0,14	456	0,8%	2,0%	spc-gsa25	0,14	2224	0,8%	2,0%
	alb	1	11851	0,3%	0,9%	alb	1	1260	0,5%	1,4%										
	swo	1,82	43218	1,1%	0,9%															
	SHI = 1,06		sum	23,6%	27,3%	SHI= 1,02		sum	14,5%	18,7%	SHI= 1,03		sum	7,4%	10,6%	SHI= 1,03		sum	7,5%	10,6%

Stocks-at-risk indicator

According to the guidelines, a stock at high biological risk means a stock which is either (a) assessed as being below the B_{lim} biological level; (b) subject to an advice to close the fishery, to prohibit directed fisheries, to reduce the fishery to the lowest possible level, or similar advice from an international advisory body, even where such advice is given on a data-limited basis; (c) subject to a fishing opportunities regulation which stipluates that the fish should be returned to the sea unharmed or that landings are prohibited; (d) a stock which is on the IUCN "red list"or is listed by CITES.

None of the stocks exploited by the Cyprus fishing fleet segments seems to meet the above criteria. EWG 16-09 had noted that "*criterion 'a' specified for the identification of stocks at risk in the 2014 Balance Indicator guidelines was generally not applicable for most of the stocks in Mediterranean, since these stocks lack B_{lim} estimates*".

According to the criteria in the 2014 Balance Indicator Guidelines, the SAR indicator suggests that all fleet segments may be in balance with their fishing opportunities.

F(ii) *Economic indicators*

Return on Fixed Tangible Assets (RoFTA)

The ROI indicator shows the long-term viability. The return on investment compared to the potential return that would be received from investing the capital asset value elsewhere. Due to the fact that there is not a market for fishing rights in Cyprus the data on intangible assets are not available. It is noted that the fishing licences for the small-scale fleet (Categories A'& B') are issued on a three-year basis. As for the rest of the fleet segments, the licences are issued annually and quotas exist only for blue-fin tuna which they are also granted on an annual basis. Thus, the value of intangible assets is considered small. Having this in mind, the indicator Return on Fixed Tangible Assets (RoFTA) for each category of the fleet is considered more appropriate, since the value of fishing rights is not included.

The indicator is calculated as follows:

RoFTA = Net profit/ Depreciated Replacement Value

The indicator is compared against TRP: return on risk free long-term investment minus inflation.

The RoFTA indicator is estimated for the four segments of the active fishing fleet (vessels with polyvalent passive gears 0-<6m, vessels with polyvalent passive gears 6-<12m vessels, with polyvalent passive gears 12-24m and demersal trawlers 24-40m, based on 2014-2015 data. It is noted that the fleet segments: polyvalent passive gears 12-24m and demersal trawlers 24-40m, have been clustered as shown and explained on the Annex Table: "Economic Clustering of fleet segments", where the clusters are named after the biggest segment in terms of number of vessels.

The Trafic light system is used: red < TRP; green > TRP ; yellow 0 – TRP

Table 8: RoFTA indicator

FLEET SEGMENTS	YEARS		
	2015	2016	Δ
DTS VL2440	-4	-8.63	↘
PG VL0006 (A&B)	-0.4	-6.72	↘
PG VL0612 (A&B)	-2.7	3.5	↗
PGP VL 1218	-12.7	-0.17	↗

RISK FREE INTEREST RATE

YEARS	2015	2016
	3.3	3.3

The development trend is analysed for all indicators for the latest year (2016) to 2015 and indicated by an arrow: "↗" improved/increased; "↘"deteriorated/decreased and "↔"stable.

The RoFTA is negative for all the fleet segments besides the polyvalent passive gears 6-<12m vessels, indicating economic over-capitalization. The fleet segment, polyvalent passive gears 6-<12m (PG 6-12m) is greatly improved compared to 2015 and it has become positive. Despite the fact that the fleet segment, polyvalent passive gears 12-24m (PGP 12-24m) is negative it has also been improved significantly compared to the previous year.

In 2015 the small-scale fishery fleet was reduced by 66 vessels, scrapped within the framework of the Scheme of Permanent Cessation, co-funded by European Fisheries Fund, and despite the fact that it is too early to come up with safe results the situation for this fleet segment (PG 6-12m), as it is shown by the development trend above, is getting improved. Comparing the RoFTA with the interest rate of a low risk long term investment, as calculated above, it shows that it is more beneficial to invest elsewhere, except marginally in the case of the polyvalent passive gears 6-<12m fleet segment.

The calculations of indicator RoFTA are provided in Table 9.

TABLE 9: Calculation of RoFTA

	2015				2016			
	PG VL0006 (A&B)	PG VL0612 (A&B)	PGP VL1218	DTS VL2440	PG VL0006 (A&B)	PG VL0612 (A&B)	PGP VL1218	DTS VL2440
Income	274,628	3,884,096	1,521,231	1,482,497	260,629	3,566,291	2,255,781	1,202,291
Less Exp	277,327	4,544,225	2,791,025	1,883,263	312,034	3,013,666	2,273,383	2,089,975
Net Profit	-2,698	-660,129	-1,269,794	-400,766	-51,405	552,625	-17,602	-887,684
Cap. Value	723,318	24,290,371	9,965,900	10,010,000	765,033	15,776,069	10,236,628	10,281,926
RoFTA	-0.37	-2.72	-12.74	-4.00	-6.72	3.50	-0.17	-8.63

Ratio between current revenue and break-even revenue

This ratio gives a short term view of financial viability and it is calculated as follows:

Ratio = Current Revenue (CR) / BER

Where, the break even revenue (BER) is the revenue required to cover both the fixed and variable costs so that zero profits and losses are generated and it is calculated as follows:

BER = (Fixed Costs) (1 – {Variable Costs / Current Revenue})

It is noted that the opportunity cost of capital is excluded.

Table 10: CR/BER*

		2015	2016	
DTS	VL2440	0.42	-0.08	↘
PG	VL0006 (A&B)	0.94	-0.05	↘
PG	VL0612 (A&B)	0.53	1.64	↗
PGP	VL1218	-0.98	0.97	↗

For all the fleet segments except for the polyvalent passive gears 6-<12m (PG 6-12m) segment the ratio is less than 1 showing that the income is not enough to cover all the costs: fixed, variable and capital, indicating that the segments are not profitable, with potential overcapitalization. It is noted that the polyvalent passive gears 12-24m (PGP 12-24m) segment is closed to one. These two fleet segments are the ones that have been improved in 2016 compared to the previous year 2015.

The calculations for this indicator are shown below:

TABLE 11: Calculation of Ratio= CR/BER

	2015				2016			
	PG VL0006 (A&B)	PG VL0612 (A&B)	PGP VL1218	DTS VL2440	PG VL0006 (A&B)	PG VL0612 (A&B)	PGP VL1218	DTS VL2440
Income	274,628	3,884,096	1,521,231	1,482,497	260,629	3,566,291	2,255,781	1,202,291
FC	43,358	1,400,485	641,155	692,943	48,943	860,606	635,911	823,970
VC	233,969	3,143,740	2,149,870	1,190,321	263,091	2,153,060	1,637,472	1,266,005
BER	292,855	7,347,299	-1,551,517	3,515,978	-5,180,923	2,171,741	2,319,997	-15,548,543
CR/BER	0.94	0.53	-0.98	0.42	-0.05	1.64	0.97	-0.08

F(iii) Vessel Use Indicators

Inactive Fleet Indicator

Table 12 provides the proportion of inactive vessels of the total fleet with respect to number of vessels, power and tonnage for the period 2008-2017. The development trend is analysed for the latest year (2017) to the average over the period 2008-2016 and indicated by an arrow: "↗" increased; "↘"decreased and "↔"stable. The indicator suggests a decrease in the inactive capacity (in terms of number, GT and kW).

Table 12: Inactive Fleet Indicator

MS			Fleet segment	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	#	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	#
CYP	NONE	INACTIVE	VL0006	355	82	29	53	75	28	44	31	29	20	↘	29.7%	7.0%	2.9%	4.9%	6.9%	2.8%	4.6%	3.4%	3.5%	2.4%	↘
CYP	NONE	INACTIVE	VL0612	294	172	72	64	94	38	48	32	40	14	↘	24.6%	14.6%	7.1%	5.9%	8.7%	3.8%	5.0%	3.5%	4.8%	1.7%	↘
CYP	NONE	INACTIVE	VL1218	11	6	1	1	3	2	4	1	1	0	↘	0.9%	0.5%	0.1%	0.1%	0.3%	0.2%	0.4%	0.1%	0.1%	0.0%	↘
CYP	NONE	INACTIVE	VL1824	3	4	1	3	2	0	0	1	0	0	↘	0.3%	0.3%	0.1%	0.3%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	↘
CYP	NONE	INACTIVE	VL2440	3	2	1	1	1	0	1	0	0	0	↘	0.3%	0.2%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	↘
CYP	**National inactive fleet**			666	266	104	122	175	68	97	65	70	34	↘	55.6%	22.6%	10.3%	11.3%	16.2%	6.8%	10.2%	7.2%	8.4%	4.2%	↘

				Inactive kW as % of fleet kW										Δ	Inactive GT as % of fleet GT										Δ
MS			Fleet segment	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	kW	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	GT
CYP	NONE	INACTIVE	VL0006	15.7%	3.1%	0.4%	2.9%	4.2%	1.8%	2.9%	2.0%	2.3%	1.6%	↘	5.5%	1.5%	0.2%	1.2%	1.9%	0.9%	1.3%	0.8%	0.8%	0.5%	↘
CYP	NONE	INACTIVE	VL0612	23.5%	11.4%	7.1%	5.3%	8.7%	4.3%	4.9%	4.1%	5.1%	1.4%	↘	27.3%	10.5%	8.3%	4.4%	6.9%	3.9%	4.4%	3.1%	3.9%	1.1%	↘
CYP	NONE	INACTIVE	VL1218	2.7%	1.4%	0.2%	0.1%	1.5%	0.5%	1.7%	0.5%	0.6%	0.0%	↘	2.7%	1.6%	0.3%	0.4%	1.2%	1.0%	2.9%	0.9%	1.0%	0.0%	↘
CYP	NONE	INACTIVE	VL1824	1.4%	1.9%	0.6%	1.8%	1.2%	0.0%	0.0%	0.6%	0.0%	0.0%	↘	4.2%	7.3%	1.2%	6.1%	4.9%	0.0%	0.0%	2.8%	0.0%	0.0%	↘
CYP	NONE	INACTIVE	VL2440	1.8%	1.1%	0.7%	0.9%	0.7%	0.0%	1.0%	0.0%	0.0%	0.0%	↘	6.4%	4.9%	2.9%	3.6%	3.1%	0.0%	4.2%	0.0%	0.0%	0.0%	↘
CYP	**National inactive fleet**			45.1%	18.9%	9.0%	11.1%	16.2%	6.6%	10.5%	7.3%	8.1%	3.0%	↘	46%	26%	13%	16%	18%	6%	13%	8%	6%	2%	↘

Vessel Utilisation Indicator

Table 13 provides the estimated Vessel Utilisation Indicator per fleet segment in traffic light system (red < 0.7; green ≥ 0.9; yellow 0.7-0.9). The development trend is analyzed for the latest year (2016) to the average over the period 2009-2015 and indicated by an arrow: "↗" improved/increased; "↘"deteriorated/decreased and "↔"stable.

In accordance with the Guidelines, the capacity is indicated in kW for active and in GT for passive gear segments.

As indicated in Table 13, for four fleet segments the indicator was calculated based on observed maximum days.

For the trawlers fishing exclusively in non-EU waters, the maximum activity of all reference years was based on the maximum number of days exercised by this fleet during 2014; while in most of the reference years the maximum observed number of days of this fleet was quite low, in 2014 it was significantly increased and it can be considered as a reference for the rest of the years.

For the two segments of Category C, the maximum activity is considered to be the maximum by Law allowable days during a year (70 days).

Table 13: Estimated Vessel Utilisation Indicator for the Cyprus fleet segments in traffic light system.

Fleet segment	Vessel Utilisation Indicator																Δ	Comments
	2009		2010		2011		2012		2013		2014		2015		2016			
	kW-days	GT-days	kW-days	GT-days	kW-days	GT-days	kW-days	GT-days	kW-days	GT-days	kW-day	GT-days	kW-day	GT-days	kW-days	GT-days		
CYP OTB VL1824 (fishing in territorial and international	0,93		0,79		0,65		0,98		0,98		1,00		0,99		0,90		↘	calculated based on observed maximum days
CYP OTB VL1824 (fishing only in international waters)	0,23		0,55		0,48		0,23		0,42		0,71		0,53		0,55		↗	observed maximum for 2014. 2014 value used as theoretical maximum for the other reference years.
CYP PGP VL1218		0,33		0,61		0,50		0,47		0,45		0,54		0,61		0,53	↗	calculated based on observed maximum days
CYP PG VL0612 (Category A&B)		0,54		0,48		0,41		0,55		0,50		0,49		0,48		0,55	↗	calculated based on observed maximum days
CYP PG VL0006 (Category A&B)		0,84		0,54		0,57		0,83		0,60		0,69		0,50		0,70	↗	calculated based on observed maximum days
CYP PGO VL0612 (Category C)		0,35		0,28		0,23		0,41		0,40		0,46		0,39		0,38	↗	calculated based on maximum allowable days (70 days)
CYP PGO VL0006 (Category C)		0,36		0,27		0,25		0,41		0,40		0,39		0,39		0,39	↗	calculated based on maximum allowable days (70 days)

The indicator suggests that the demersal trawlers operating in both territorial and international waters exhibit a homogeneous level of activity, with high values of capacity utilization. Demersal trawlers operating only in international waters seem to be under-utilised.

The segment "vessels using polyvalent passive gears 12-18 m" exhibits heterogeneous activity; however, this heterogeneous activity can be explained by the fact that the segment includes vessels using only drifting longlines targeting large pelagic, and vessels using both drifting longlines for large pelagic and bottom nets and set longlines targeting demersal species. Therefore, for the segment "vessels using polyvalent passive gears 12-18 m" it is considered that the low value of capacity utilization does not indicate technical overcapacity.

Concerning the small-scale inshore fleet segments, except for "Vessels with polyvalent passive gears 0-6m (A&B category)", the relatively low values of the indicator may indicate technical overcapacity.

G. Statement of MS opinion on balance of fleet capacity and fishing opportunity

Based on an overview of the estimated balance indicators in traffic light system, the fishing capacity of the different fleet segments in relation to the fishing opportunities is as follows:

− Demersal trawlers operating in both territorial and outside Union waters are fully utilized. The estimated SHI is positive (<1), since the main species exploited by the fleet (*Spicara smaris* and *Mullus barbatus* in GSA25*)* are fished sustainably. Concerning the economic indicators, it is noted that they are common for all trawlers, including the trawlers operating exclusively in non-Union waters; the reason for clustering all trawlers for the estimation of the economic indicators is explained in Annex III. The economic performance of all trawlers has been deteriorated compared to previous year and they seem to be in a net loss-making position. Specifically for trawlers operating in both territorial and outside Union waters it can be suggested that the fleet is in balance with the exploited resources.

− Demersal trawlers operating exclusively outside Union waters are under-utilised; however, this is not considered an indication of technical overcapacity, taking into account the small number of licensed vessels, and the possibility of the fleet to exploit a variety of stocks all over the Mediterranean Sea (international waters). The estimated SHI suggests that the fleet relies on stocks that are overfished; the stocks contributing to the indicator increased compared to previous reports, since additional relevant stock assessment results became available. Concerning the economic indicators, as it has been mentioned, they are common for all trawlers, including the trawlers operating in both territorial and outside Union waters. The reason for clustering all trawlers is explained in Annex III. The economic performance of all trawlers has been deteriorated compared to previous year and they seem to be in a net loss-making position. Taking into account the small number of licensed vessels in this segment, their possibility to exploit a variety of stocks all over the Mediterranean Sea (international waters), and the overview of the estimated balance indicators, we cannot conclude on the balance of this fleet with its exploited resources.

− The vessels with polyvalent passive gears 12-18m show a heterogeneous activity, which is considered to exist due to the different fisheries exercised by the fleet, rather than due to a technical overcapacity. The SHI represents more than 90% of the value of landings with value >1, basically due to the exploitation of swordfish that at the moment is not sustainably exploited and for which ICCAT established a multiannual recovery plan in 2016. The fleet segment was operating at a net loss making situation in 2016. However, its economic development trend is improved significantly compared to the economic indicators of the previous year. The factors behind the improvement of economic performance were the decrease of all except for the slight increase in Wages and salaries and at the same time the significant increase in the value of landings in 2016. RoFTA is slightly negative in 2016 but it was greatly improved compared to the previous year and thus, we cannot talk about economic over-capitalization. The same picture stands for the Ratio between current revenue and break-even revenue which has been improved at a great extend compared to previous year and for the current year is closed to one suggesting that the income is more or less sufficient to cover all the costs. In conclusion, the estimated indicators suggest that this fleet segment is in balance with the resources.

− The vessels with polyvalent passive gears 6-12m (small scale inshore fishery with category licenses A&B) seem to some extent underutilized. The estimated SHI is around 1; however, it is based on stocks that account for less than 40% of the value of landings. Despite the decrease in value of landings and as result revenues, the fleet segment shows improvement of its economic performance at a great extent. The fleet segment is in a slight net loss making position but it is much improved in comparison to last year where the segment faced significant losses. Furthermore, the Gross Profit shows an important increase. The improved economic performance was mainly due to the decrease in fuel prices and the significant reduction in the overall operating costs. The RoFTA is positive and much improved if compared to the

previous year, indicating long term viability. The ratio CR/BER is positive and much higher than previous year, showing that the income is sufficient to cover the costs. It is reminded that an action plan for the small scale inshore fleet (0-12m with category license A&B) was implemented in 2015, based on the conclusions of previous reports that an action plan was required. Based on all the above, it is suggested that this segment is in balance with the fishing opportunities.

− The vessels with polyvalent passive gears 0-6m (small scale inshore fishery with category licenses A&B) do not seem to be underutilized. The estimated SHI is around 1; however, it is based on stocks that account for less than 40% of the value of landings. The RoFTA is slightly negative, while the ratio CR/BER is almost 1; these results do not clearly suggest that the segment shows overcapitalization. However, this economic result should be treated with caution, since the information is based only on questionnaires, due to the absence of financial accounts and logbooks and due to the small population of the fleet segment. Based on all the above, it cannot be concluded that this fleet segment is not in balance with the resources, and no additional action plan is proposed.

− The vessels with polyvalent passive gears with length 0-< 6m and 6-< 12m of category C [*PGO VL0006 (Category C)* and *PGO VL0612 (Category C)]* show a heterogeneous activity. The estimated SHI is around 1; however, it is based on stocks that represent less than 40% of the value of landings. Due to the very limited fishing effort that they can exercise by Law, i.e. a maximum allowable of 70 working days, which can be exercised only in the weekends, and many limitations on the use of fishing gears [see Secion A(i)], it is considered that a statement of the fishing capacity of these fleet segments in relation to the fishing opportunities is not applicable.

H. Action Plan

No action plan is proposed for any of the fleet segments of Cyprus.

ANNEX I - Landings (tons) by species and gear in 2016 by vessels flying the Cyprus flag.

Species	OTB Territorial Waters	International Waters Central Med	International Waters Eastern Med.	LLD	Passive gears (except LLD) Territorial Waters	All gears
ALB			0,3	568,2	4,6	573,1
BOG	12,2	0,6	2,8		88,8	104,4
SPC	46,6		0,1		27,9	74,7
CBR	3,2		0,2		58,4	61,8
BFT				58,8		58,8
MUR	1,7	11,1	2,4		33,6	48,9
SWO	0,0		0,1	40,7	0,1	40,9
PRR					39,8	39,8
MZZ					33,1	33,1
HWH					32,7	32,7
MUT	13,6		11,6		6,6	31,7
SBA	9,6	0,0	3,9		15,6	29,0
BPI			0,1		28,8	28,9
CTC	0,2				25,2	25,4
OCC					24,8	24,8
PAC	5,2	1,6	4,2		6,1	17,1
SRI					16,9	16,9
BON					16,3	16,3
SWA					14,3	14,3
PUX					13,5	13,5
SCS	1,6	3,8	0,0		7,5	12,9
SPI					9,3	9,3
LFZ					9,1	9,1
SQR	2,2				5,9	8,1
HKE	1,4	5,0	0,0		1,2	7,7
GPD					6,7	6,7
AMB	0,0				6,4	6,4
JAX	1,5	0,8	1,8		2,0	6,1
RPG	0,1	0,1			5,8	6,0
STT	0,6				5,4	6,0
OCT	1,4	1,8	1,9		0,2	5,3
BAR					4,7	4,7
SQC	2,3	1,2	1,1		0,0	4,6
VMA					4,4	4,4
IGU					4,4	4,4
SRK					4,2	4,2
CLP	0,9		0,6		2,5	4,1
PEZ	0,0	2,6			1,2	3,8
RAJ		2,3			1,3	3,6
SLM					3,0	3,0
SBS	0,1				2,9	3,0
GUX	0,3	1,0	1,4		0,0	2,7
LIX	2,2		0,6			2,7
MUL					2,5	2,5
DEC	0,0				2,4	2,4
CTB					2,2	2,2
FIO					2,2	2,2
IAX	0,3	0,6	1,2		0,0	2,1
SBG					2,1	2,1
JOD	0,0	2,1			0,0	2,1
WRA					1,8	1,8
EFJ	0,9		0,2		0,6	1,7
OIL				1,5		1,5
AOM					1,4	1,4
BSS	0,0				1,3	1,3
MNZ		1,3			0,0	1,3
TRK		1,0		0,1		1,1
LTA					0,9	0,9
OMZ		0,8				0,8
ANN					0,7	0,7
SDR					0,7	0,7
SSB					0,7	0,7
BSH				0,7		0,7
LKT					0,6	0,6
DOL				0,6	0,0	0,6
BLT					0,6	0,6
MAZ		0,5				0,5
MMH					0,5	0,5
MZZ	1,6	0,9	0,3	0,9	4,4	8,0
Total	109,5	39,0	34,7	671,5	601,1	1455,8

Note: Species with landings <500kg are grouped as "MZZ"

Cyprus Balance Report for 2017

Cyprus : Tonnage of the fleet compared to its tonnage ceiling. Evolution between 1-5-2004 and 1-1-2018.
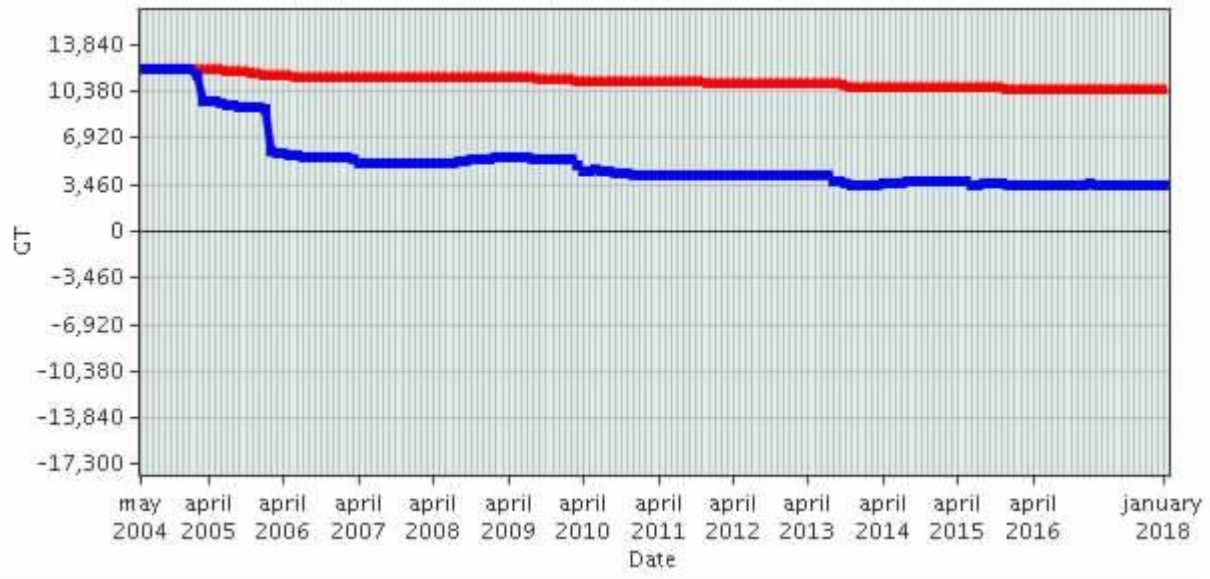
| ↕ 3460 | ▲ Capacity ceiling GT | ■ Capacity in GT | ▲ and ■ Values at 1st day of the month |

Cyprus : Power of the fleet compared to its power ceiling. Evolution between 1-5-2004 and 1-1-2018.
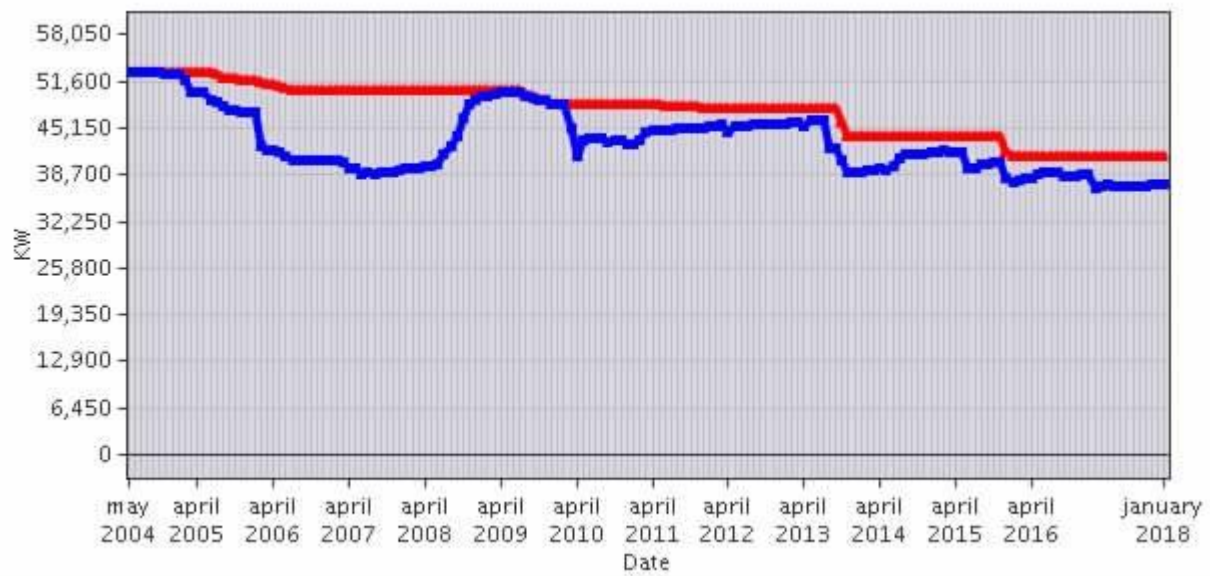
| ↕ 6450 | ▲ Capacity ceiling KW | ■ Capacity in KW | ▲ and ■ Values at 1st day of the month |