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Executive summary

The EU multiannual programme for the collection, management and use of data in the fisheries and aquaculture sectors outlines the collection of social variables for the EU fishing fleet and aquaculture, as well as some changes in the economic variables collected under the Data Collection Framework (EU MAP).

These changes will be seen in the social and economic data to be submitted in 2019. In accordance with this, the fleet economic data call of 2019 will have to be modified to consider these changes. The effects of these changes on data submission and reporting (e.g. comparability, consistency, time series, fleet segments, etc.) need to be assessed. Likewise, MS should agree on common methods to raise social data from sample to the whole population, and on reporting the social data in the 2019 data call.

Against this background, the 2018 PGECON report recommended to organise a workshop to discuss and advise on appropriate reporting structures for the new social data, as well as, on how the data should be analysed/presented and methods on raising data from sample to the population.

The terms of reference for the workshop were in brief:

- Draft the 2019 fleet economic data call taking into account the changes in the EU multiannual programme as regards economic and social data and evaluate for the new and slightly altered economic variables, to what extent the applied definitions and methodologies are harmonised across MS or regions,
- 2. Define how the social data are to be analysed and presented,
- 3. Discuss and agree on how to report the social data (in the 2019 and future data calls), considering:
 - (a) use of stratification;
 - (b) timing of data collection;
 - (c) possibility to report combined variables;
 - (d) closed-ended responses for data reporting and use of the 'unknown' category and
 - (e) the need and potential methods to raise social data from sample to whole population?
- 4. Discuss and agree the reporting structure for the data call.

To address the ToRs the following activities were carried out:

- 1. Presentation by the chairs of the WS covering the collection of social variables for the EU fishing fleet and aquaculture sector, as well as, an overview of the changes to the economic variables collected under the Data Collection Framework (EU MAP)
- 2. Group review of the two Guidance Documents on definitions and methodologies.
- 3. Checklist to be filled out by experts on "social variables" and raising methods.
- 4. Checklist to be filled out by experts on "changes to the economic variables collected".
- 5. Presentation by DG MARE on behalf of end-users, highlighting the need and importance of social data and indicators for policy, the type of analysis desired and future involvement of social scientists and the possibility of a dedicated working group on social analysis.
- 6. Presentations by Alyne Delaney and Arina Motova on the End user reviews: SECFISH presentation, Angelos Liontakis on the Greece case study: fleet, and Edvardas Kazlauskas and Andrius Linauskas on the Lithuania case study: Fish processing sector.

Based on the discussions on the four TOR the working group drew the following main recommendations and conclusions:

Recommendations / Conclusions				
ToR 1a. Draft the 2	019 fleet economic data call			
Con. 1	In order not to lose time-series analysis in the AER, the group concluded that FTE national should be requested in the 2019 data call under economic variables.			
Rec. 1	The group recommended that the more concise Guidance Document containing the definitions and proposed methodologies produced during the workshop clarifying several pending issues, should be published on the JRC/DCF website as soon as possible.			
Rec. 2	The group agreed that prices per commercial species should not be requested and average price calculated as it was in the DCF, i.e., live weight of landings / value of landings by species and sub-region would be used.			
Rec. 3	Price per commercial species in the EU MAP should be specified as Live weight.			
	ToR 1b. Evaluate to what extent the applied definitions and methodologies are harmonised across MS or RCGs and if new definitions will be used, whether these will/can be applied for the entire time-series.			
Con. 1	The group concluded, that for the most part, there will be no major differences between the data submitted under the DCF and EU MAP, i.e., time-series will be maintained. For the new EU MAP variables, such as unpaid labour, most MS will only be able to provide data from 2017 onwards.			
Rec. 1	The group recommended PGECON to: change engaged crew to paid labour; change Long/short term debt to gross debt; change Investments, net to Gross investments (purchases minus sales)			

Rec. 2	The group recommended that MS calculate all EU MAP variables back to 2008 where possible. For example, data on operating subsidies and subsidies on investments should be available and possible to report for the entire time-series.					
Rec. 3	In cases where the methodology to calculate a variable common to DCF and EU MAP has changed, for example days at sea (for SSCF), the entire time-series should be recalculated for the 2019 data call.					
Rec. 4	The group suggested that GTseaday and kWseaday would be more appropriate variables for economic analyses than GTfishingdays and kWfishingdays.					
Rec. 5	The group recommended PGECON to assess the validity of FTE national as a social variable.					
The group recommended that the methodology for the calculation or estimation of Value of quota and other fishing rights should be updated in 2019 when results from SECFISH project will become available and presented at PGECON 2019.						
ToR 2. How are so	cial data intended to be analysed and presented?					
Con. 1	The group agreed with DG MARE's intention of producing a stand-alone chapter on social indicators in the annexes of the 2019 AER of the EU fishing fleet.					
Rec. 1	The group proposed a national chapter structure which would include the reporting of social indicators (See Annex 6).					
ToR 3. Discuss and	agree how to report the social data (in the 2019 and future data calls)					
Con. 1	The group concluded that the social data template must be flexible to accommodate the reporting of data at different stratification levels, the reporting of data independently or combined, depending on the MS needs.					
Rec. 1	The group recommended the following potential stratification levels: supra region, main fishing technique, vessel length group, fishing activity, geo-indicator, cluster name, as well as the possibility to report individual data.					
Rec. 2	The group recommended the population for the social data call to be the same as the reported employment in the fleet and aquaculture data calls (i.e., all the employment for the whole year).					
Rec. 3	The group recommended further effort to harmonise social data collection timing methodologies, when applicable.					
Rec. 4	The group recommended to report gender by: Male, Female, Unknown, and [blank].					
Rec. 5	The group recommended to report age by the following age groups: <15, 15-24, 25-39, 40-64. >64, Unknown, and [blank].					
Rec. 6	The group recommended to report education level by: Low (ISCED 2011 levels 0-2), Medium (ISCED 2011 levels 3-4), High (ISCED 2011 levels 5 and higher), Unknown, and [blank].					
Rec. 7	The group recommended to report nationality by: National, EU, EEA, non-EU/EEA, Unknown, and [blank].					
Rec. 8	The group recommended to report employment status by: Owner, Employee, Unknown, and [blank]. On a voluntary basis, employee can be reported further disaggregated into Employee Full-time and Employee Part-time.					
Rec. 9	The group recommended to include the possibility to report unknown as a close-ended response category for all the social data requested.					
Rec. 10	The group recommended to report raised social data. The group noted that MS are in the best position to know how to raise their sample data to their whole population.					
Rec. 11	The group recommended to report the sampling size.					

ToR 4. Discuss and agree the reporting structure for the data call			
Con. 1	The group agreed on a draft template for the requested social data in Annex 7, and the corresponding .csv file template for uploading social data has been prepared by the JRC.		
Rec. 1	The group recommended not to report additional social indicators, even if the MS collected them. In any case, information on these additional social indicators could be added by the experts when writing the national chapter if they consider relevant.		

1. Introduction

Background

The EU multiannual programme for the collection, management and use of data in the fisheries and aquaculture sectors introduces the collection of social variables for the EU fishing fleet and aquaculture, as well as some changes in the economic variables collected under the Data Collection Framework (EU MAP).

The social data outlined in Table 1 shall be collected every three years starting from 2018.

Table 1. Social variables for the fishing and aquaculture sectors

Variable	Unit
Employment by gender	Number
FTE by gender	Number
Unpaid labour by gender	Number
Employment by age	Number
Employment by education level	Number per education level
Employment by nationality	Number from national, EU, EEA and Non-EU/EEA
Employment by employment status	Number
FTE National	Number

These changes will be seen in the social and economic data to be submitted in 2019. In accordance with this, the fleet economic data call of 2019 will have to be modified to accommodate these changes. Likewise, MS should agree on common methods to raise social data from sample to the whole population, and on reporting the social data in the 2019 data call.

Against this background, the 2018 PGECON report recommended to organise a workshop to discuss and advise on appropriate reporting structures for the new social data. It was agreed that such a workshop should take place before the 2019 data call is issued. Topics to discuss at the workshop will include at least:

- 1) How data is intended to be analysed and presented,
- 2) Agreement on methods to raise data from sample to the whole population,
- 3) Advice to MARE and JRC on the structure for data call.

In addition, it is important to assess how the new and slightly alerted economic variables (table 2), definitions and geographical stratification set out in the EU MAP are being applied in each MS, and how theses will affect data submission (uploading templates) and reporting (e.g. comparability, consistency, time series, fleet segments, etc.).

Table 2. New and slightly altered economic variables for fleet

Variable group	EU MAP variable	DCF variable	
Subsidies	Operating subsidies	? Direct subsidies	
Jubilities	Subsidies on investments	New	
Capital costs	Consumption on fixed capital	? Annual depreciation	
Investments	Investments in tangible assets, net	? Investments in physical capital	
Financial position	long term / short term debt	? Debt/asset ratio	
i maneiai position	Total assets	? Depreciated replacement value	
	Total hours worked	New	
Employment	Unpaid labour	New	
	FTE national	Social variable	
Labour costs	Personnel costs	Wages and salaries of crew	
Labour Costs	Value of unpaid labour	Imputed value of unpaid labour	

2. Terms of Reference

PGECON 2018 recommended to have a workshop to discuss and agree appropriate reporting structure for social data. It was agreed that such a Workshop should take place before the next fleet economic data call is issued. The ToRs were drafted in advance by the PGECON and workshop chairs and circulated to the group and DG MARE for comments. The final ToRs also included aspects related to the new EU MAP economic variables and stratification.

The agreed ToRs were:

1. a. Drafting of the 2019 fleet economic data call taking account of the changes in the EU multiannual programme as regards economic and social data. Looking in particular at the changes in the variables requested and geographical stratification by supra-region in order to ensure consistency and continuity of time series data; i.e.

minimize any potential structural breaks (between DCF and EU-MAP programmes) in the series.

b. Evaluate, for the new and slightly altered economic variables, to what extent the applied definitions and methodologies are harmonised across MS or regions (RCGs) and if new definitions will be used, whether these will/can be applied for the entire time-series.

2. How are social data intended to be analysed and presented?

As 2019 will be the first year where social datasets are submitted, the proposal to be discussed consists on having these datasets analysed by a group of experts with experience in their collection for the STECF EWG for the AER (fishing fleet). The objective will be to produce a stand-alone chapter (separate from the whole report) in the 2019 AER of the fishing fleet. This ToR should result in a general discussion on the limitations and analysis of these data and in what capacity they can input to a new AER chapter.

3. Discuss and agree how to report the social data (in the 2019 and future data calls)?

- a. Use of stratification (e.g. by supra region, and/or major groups of fleets, and/or SSF, DWF, LSF; for aquaculture: marine, freshwater and shellfish)
- b. When to collect the social data? Trade-offs from considering a certain day or the in-year evolution (i.e., importance of double-counting and seasonality)
- c. Possibility to report combined variables (e.g. female workers by age)
- d. Defining the close-ended responses for data reporting. Use of unknown category?
- e. Need to raise social data from sample to whole population? Potential methods
- 4. Discuss and agree the reporting structure for the data call.
- 5. AOB.

Workshop process

To address the ToRs the following activities were carried out:

1. The chairs of the WG presented an overview of the collection of social variables for the EU fishing fleet and aquaculture sector, as well as, the changes to the economic variables collected under the Data Collection Framework (EU MAP).

- 2. The two Guidance documents, updated by PGECON 2018, were merged and reviewed by the group, covering any unclear and pending issues identified.
- 3. Two checklists, one covering aspects on the new social indicators and the other regarding the economic variables, were provided to the group to be filled out.
- 4. DG MARE presentation
- 5. Presentations by Alyne Delaney and Arina Motova on the End user reviews: SECFISH presentation, Angelos Liontakis on the Greece case study: fleet, and Edvardas Kazlauskas and Andrius Linauskas on the Lithuania case study: Fish processing sector.
- 6. Data call structure for social variables delineated....
- 7. Reporting structure outline for social chapter produced....
- 8. Data requirements (tables) for the 2019 fleet economic data call defined

Structure of the report

The report follows the order of the ToRs of the workshop. Each ToR contains a section on conclusions and recommendations.

ToR 1.a Drafting of the 2019 fleet economic data call taking account of the changes in the EU multiannual programme as regards economic and social data.

To address this ToR, the group first addressed some open issues regarding the two guidance documents from the EWG 18-18: (1) "Definitions of socio economic variables described in EU MAP" and (2) "Methodologies for the socio-economic data described in EU MAP".

The aim was to clarify some ambiguous and outstanding issues to produce a concise and clear Guidance Document to support the collection of social and economic data under the EU MAP economic data calls.

The two documents were merged into one which will be published on the JRC Data Collection Framework website. During the preparation of merged guidance document, the group additionally checked and revised the definitions and methodologies and in the cases of uncertainties made amendments. For the most part, the definitions and methodologies were unchanged as it was sufficiently clear and only a few clarifications were made.

The EU MAP economic variables addressed were:

- Other income: WS agreed that extraordinary and financial income should not be included. This was specified in the definition.
- Personnel costs: the DCF Capital WS in 2011 recommended that 'people working only onshore should be excluded'. The DCF Small-scale WS in 2017 then recommended to report onshore employment only if their activity has a direct link with the fishing operations. The group agreed with the outcome of the Small-scale WS.
- Energy costs: energy costs should be supplied as net costs, i.e., there should be no difference with the DCF homologous variable
- Variable costs: Should be changed to Other variable costs, to distinguish from the other
 variable costs that are collected separately, i.e., energy costs, personnel costs and
 repair and maintenance costs. There should be no difference with the DCF homologous
 variable.
- *Non-variable costs:* should be changed to *Other non-variable costs,* in line with distinguishing from other fixed costs collected separately.
- Consumption of fixed capital: there should be no difference with the DCF homologous variable (Annual depreciation) although a WS is planned to compare methodologies and calibrate / update input data for the PIM in late 2019.
- Value of physical capital: again, the WS concurred that a workshop / study on best practices for calibrating the price per unit for each MS is urgently needed.

- Operating subsidies: corresponds to the DCF homologous variable Direct subsidies
- Value of quota and other fishing rights: WS concurred that a specific study / review of methods applied across MS is needed and is being addressed by the SECFISH project, outcomes of which will become available in 2019.
- Investments in tangible assets, net: The group agreed that the terminology 'net' is
 misleading as in financial accounting net investments refer to investments minus
 depreciation. In the EU MAP, investments should not include depreciation. The group
 agreed that the variable name should be changed to Gross investments to avoid any
 misinterpretation and the definition clarified to state purchases minus sales.
- Long/short debt: WS concurred that the variable name is ambiguous and should be changed to gross debt.
- Engaged crew: Engaged crew in the DCF, and as the term implies, includes unpaid employees whereas the EU MAP proposes to separate these two types of employment and added a new variable unpaid labour. Hence, the term Engaged crew now creates some confusion and should be renamed in Paid labour. The group proposed to leave unchanged the definition of Engaged crew including unpaid employees for now while also reporting Unpaid labour. Therefore, the deduction of unpaid labour from engaged crew should indicate paid labour. If, and when, engaged crew is changed to Paid labour, the definition must be updated. Paid plus unpaid labour should then provide total engaged crew.
- *Total hours worked*: Clarified that for engaged crew, hours worked includes paid and unpaid labour as well as onshore labour with a direct link with the fishing operations.
- FTE national: from 2017 this variable falls under social indicators and hence is only collected every 3 years and not necessarily for the entire population. Instead of FTE national, the EU MAP added a new variable Total hours worked per year. This change is important in terms of time series for FTE national (and associated indicators used in the AER, such as GVA per FTE) and cannot be calculated without the national threshold, which is not identified in the EU MAP. The group considered that this change was underestimated and that FTE national for end-user should be available annually and for the total population. The group agreed that this issue should be resolved during PGECON 2019 and in the meantime request MS to continue reporting FTE national as it was asked in DCF, by dividing Hours worked by national threshold.

The revised and concise Guidance Document, including definitions and methodologies will be made available on the JRC/DCF web page.

The group then revised the data requirements for the upcoming fleet economic data call in January/February 2019, which calls for the first-time data under the EU MAP. The group agreed to exclude certain variables and aggregation levels that are either not used in the AER or can be called in another data call, such as the FDI (transversal data).

The group discussed and agreed that Recreational catches, as currently identified (in weight for certain species and areas only), should not be called in the Fleet economic data call and that possibly, the FDI data call and associated expert working groups would be a more appropriate forum for these data.

The group also agreed that data at the gear level as well as data requested on a voluntary basis (e.g. GT hours at sea), should not be called unless a clear use is intended.

Additionally, it was highlighted that in the EU MAP, GTfishing days and kWfishing days are now requested for all fleet segments, as opposed to the DCF where these were required only for dredges and trawlers. The group also agreed that GTseaday and kWseaday would be more appropriate variables for economic analyses.

DG MARE focal point stated that the Commission intends to launch the 2019 fleet economic data call one to two weeks earlier (around the 22 January) but will allow for a two to three-week extension for the provision of the new social variables (mid-March).

A draft of the 2019 fleet economic data call taking account of the changes in the EU MAP with regards economic and social data as well as the group discussions is provided in Tables 2 to 4, separated by variable group (social, economic and transversal).

Table 3. EU MAP data requirements (2017-2018) - Social variables

Social variable group	Variable	Unit	Reporting level	Years
Employment	by gender	Number	Male / Female / Unknown	2017
	by age	Number	<15 / 15-24 / 25-39 / 40-64 / >64 / unknown	2017
	by education	Number	Low (Level 0-2) / Medium (Level 3-4) /	2017
	level		High (Level 5-8) / Unknown	
	by nationality	Number	National / EU / EEA / Non-EU-EEA	2017
	by status	Number	Owner / Employee (includes unpaid labour):	2017
			*full-time / * part-time	
FTE	by gender	Number	Male / Female / Unknown	2017
Unpaid labour	by gender	Number	Male / Female / Unknown	2017

Table 4. EU MAP data requirements (2017-2018) - Economic variables

Variable group	Variable	Years	Aggregation level
Fishing Enterprises	Enterprises consisting of 1 vessel	2017-2018	Yearly, by:
	Enterprises consisting of 2-5 vessels		1. National totals.
	Enterprises consisting of >5 vessels		
Employment	Engaged crew	2017	Yearly, by:
	Unpaid labour		1. Fleet segment and
	FTE national*		Supra-region; 2. National totals.
Income	Gross value of landings	2017-2018*	
	Income from leasing out quota or	2017	
	other fishing rights		
	Other income		
Subsidies	Operating subsidies	2017	
	Subsidies on investments		
Labour costs	Personnel costs	2017	
	Value of unpaid labour		
Energy costs	Energy costs	2017	
Repair & maintenance	Repair and maintenance costs	2017	
costs			
Other operating costs	Other variable costs	2017	
	Other non-variable costs		
	Lease/rental payments for quota or		
	other fishing rights		
Capital costs	Consumption of fixed capital	2017	
Capital value	Value of physical capital	2017	
	Value of quota and other fishing rights		
Investment	Investments in tangible assets	2017	
Financial position	Long/short debt	2017	
	Total assets		

Table 5. EU MAP data requirements (2017-2018) - Transversal variables

Variable group	Variable	Years	Aggregation level
Capacity	Number of vessels	2017-2018	Yearly, by:
	Mean LOA of vessels		 Fleet segment and Supra-region; National totals.
	Total vessel's tonnage		
	Total vessel's power		
	Mean age		
Effort	Fishing days	2017-2018*	Yearly, by:
			National Totals; Seet segment and Supra-region;
	Days at sea		3. (2) + FAO Area level 4 for the Baltic), GFCM-GSA for the Mediterranean &
	kW fishing days	2017	Black Sea and FAO Area level 3 for all
	, , , , , , , , , , , , , , , , , , ,		other regions);
	GT fishing days	2017	
	Energy Consumption	2017	Yearly, by:
			1. Fleet segment and Supra-region;
	Number of trips		2. National totals.
	Maximum days at sea **	2017	Yearly, by:
			1. Fleet segment and Supra-region.
Landings	Live weight of landings per species	2017-2018*	Yearly, by:
			Fleet segment and Supra-region, FAO Area level 4 (Baltic), GFCM-GSA
	Value of landings per species	2017-2018*	(Mediterranean & Black Sea), FAO Area
			level 3 (All other regions) 2. National Totals.

^{*2018} data not mandatory but requested from MS wherever possible in order to estimate economic projections for 2019. These data, where provided, will be flagged as preliminary in the 2019 Annual Fleet Economic Report and corresponding data tables.

^{**} Non-mandatory under the DCF

Recommendations ToR 1a

Regarding the Guidance Document, the group agreed/recommended to:

- Delete the first three columns of the tables to avoid any misperception as these often contain earlier comments that contradict more recent recommendations for several variables (e.g. Personnel costs).
- Change *engaged crew* to paid labour.
- Change Long/short term debt to gross debt.
- Change *Investments, net* to Gross investments (purchases minus sales).
- Continue to call for FTE national in the fleet economic data calls.
- The group agreed that the methodology for the collection of Subsidies on Investments should be clarified in the case of subsidies for permanent cessation of fishing activities for those vessels that became inactive during the year; whether or not these should be classified in the inactive segment.
- Concerning the Consumption of fixed capital, the group again raised the need of a
 workshop, discussed during PGECON 2018, to ensure comparability of the
 methodology of estimating capital value among MS. The workshop should also share
 best practices in calculation of price per capacity unit and selection of the most
 appropriate data sources, age schedules, depreciation schemes, rates, etc. The group
 also proposed to define a periodical calibration and review of input data for the PIM
 methodology.
- Methodology for the calculation or estimation of the Value of quota and other fishing rights should be updated in 2019 when results from the SECFISH project will become available and presented at PGECON 2019.

Regarding Data requirements:

- A) The group agreed/recommended to include or change the following variables and/or aggregation levels in the EU MAP call for economic data on the fishing fleet in 2019, where possible.
- FTE national for all fleet segments and years.
- In the EU MAP, GTfishing days and kWfishing days are now requested for all fleet segments, yet, the group suggested that GTseaday and kWseaday would be more appropriate variables for economic analyses.
- B) The group agreed/recommended to exclude the following variables and/or aggregation levels in the EU MAP call for economic data on the fishing fleet in 2019.
- Fishing days and landings by gear type (requested and provided in the FDI data call)

- Hours at sea, GT hours at sea and kW hours at sea by fleet segment, FAO Area level 4
 (Baltic), GFCM-GSA (Mediterranean & Black Sea) and FAO Area level 3 (All other
 regions (requested on a voluntary basis in the previous DCF data calls).
- Prices by commercial species. As live weight and value of landings by commercial species are requested, the group agreed to follow the same procedure used in the DCF and calculate the average price by dividing value by live weight.
- Recreational catches in the Fleet economic data call. These should be called by the FDI call or eventually have a dedicated data call on recreational fisheries.

TOR 1b. Evaluate, for the new and slightly altered economic variables, to what extent the applied definitions and methodologies are harmonised across MS or regions (RCGs) and if new definitions will be used, whether these will/can be applied for the entire time-series.

Looking in particular at the changes in the variables requested and geographical stratification by supra-region in order to ensure consistency and continuity of time series data; i.e. minimize any potential structural breaks (between DCF and EU-MAP programmes) in the series.

To address this part of the ToR two checklists, one for social and one for economic variables, were produced for the group to fill in or complete according to their data collection programmes. These checklists aimed to provide an overview of the current situation in each member state as regards the collection of data for social and the new economic variables and to what extent these may differ to the DCF in the case of the latter.

Twenty-three experts from sixteen member states attended the meeting and completed the checklist according to their data collection programmes (see Annex 2, tables by MS).

The group went through the results and agreed that in most cases there would be no major differences between the data submitted under the DCF and that under EU MAP. For the new variables, such as unpaid labour, most Member states would only be able to provide data for 2017.

Recommendations ToR 1b

The group recommended MS to calculate all new EU MAP variables back to 2008, where possible. For example, data on operating subsidies and subsidies on investments should be available and possible to report for the entire time-series.

If the methodology or estimation procedure for a given variable common to the DCF and EUMAP has changed, these should be recalculated for the entire time-series (from 2008).

The group recommended that FTE national should continue to be called annually as part of the economic variables.

TOR 2. How are social data intended to be analysed and presented?

As 2019 will be the first year where social datasets are submitted, the proposal to be discussed consists on having these datasets analysed by a group of experts with experience in their collection for the STECF EWG for the AER (fishing fleet).

The objective will be to produce a stand-alone chapter (separate from the whole report) in the 2019 AER of the fishing fleet. This ToR should result in a general discussion on the limitations and analysis of these data and in what capacity they can input to a new AER chapter.

DG MARE confirmed the intention to produce a stand-alone chapter on social indicators in the annex of the 2019 AER of the EU fishing fleet.

In addition to the two STECF expert working groups for the elaboration of the 2019 AER of the EU fishing fleet, DG MARE A.4 will request the STECF Bureau to have a STECF expert working group meeting focusing on social indicators¹.

Recommendations

The group agreed with DG MARE's intention and proposed a national chapter structure to report social indicators (See Annex 6).

¹ At the finalization of assembling this report, the STECF Bureau agreed to have a STECF expert working group meeting focusing on social indicators, which will probably take place in parallel to the first STECF EWG for the AER (fishing fleet).

TOR 3. Discuss and agree how to report the social data (in the 2019 and future data calls)?

Discuss and provide recommendation on the reporting social data (in the 2019 and future data calls).

To address this part of the ToR a checklist for social indicators was produced for the group to fill in or complete according to their data collection programmes. This checklist aimed to provide an overview of the current situation in each member state as regards the collection of data for social indicators. This helped to focus the discussions and reach mutual understanding.

3.a. Use of stratification (e.g. by supra region, and/or major groups of fleets, and/or SSF, DWF, LSF; for aquaculture: marine, freshwater and shellfish)

The regulation on the collection of social variables does not specify the need to use stratification and consequently MS are only obliged to report national totals. However, the group recognised that reporting social variables at more disaggregated levels could be desirable when added value to the social analysis is provided.

Recommendations

The group recommended the social data template to be flexible to accommodate the reporting of data at different stratification levels depending on the MS needs.

- The group recommended the following potential stratification levels:
- supra region (AREA27, AREA37, OFR, and [blank]),
- main fishing technique (DFN, DTS, etc., and [blank]),
- vessel length group (VL0010, etc., and [blank]), fishing activity (SSF, LSF, DWF, and [blank]),
- geo-indicator (as detailed in: https://datacollection.jrc.ec.europa.eu/wordef/geographical-indicator and [blank]),
- cluster name, and fisher (e.g. 1, 2, 3) when reporting individual data.

When reporting all stratification levels in blank, then the data would refer to the national totals. Instead when reporting one or more stratification levels different than Blank, it would be possible to submit more disaggregated data. A draft template is provided in Annex 7.

3.b. When to collect the social data? Trade-offs from considering a certain day or the in-year evolution (i.e., importance of double-counting and seasonality)

To discuss and prepare recommendation on the timing of social data collection. Trade-offs from considering a certain day or the in-year evolution (i.e., importance of double-counting and seasonality).

The group highlighted the importance that all MS follow a homogenous approach. However, there is an understanding that for this first social data call, MS may be using different approaches. The methodology harmonisation may be difficult since some MS use data already collected from other institutions.

Recommendations

The group recommended the population for the social data call to be the same as the reported employment in the fleet and aquaculture data calls (i.e., all the employment for the whole year).

The group recommended further effort to harmonise social data collection timing methodologies, when applicable.

3.c. Possibility to report combined variables (e.g. female workers by age)

The regulation on the collection of social variables does not specify the need to use report combined variables and consequently MS are only obliged to report social indicators independently. However, the group recognised that reporting social variables combined could be desirable when added value to the social analysis is provided.

Recommendations

The group recommended the social data template to be flexible to accommodate the reporting of data independently and combined depending on the MS needs.

When reporting all variables requested in blank but one, MS could report data independently. Instead, when reporting at the same time more than one variable requested different than blank, MS could report data combined. A draft template is provided in Annex 7.

3.d. Defining the close-ended responses for data reporting. Use of unknown category?

To address this part of the ToR a checklist for social indicators was produced for the group to fill in or complete according to their data collection programmes. This checklist asked how MS could report the different data requested. Based on these responses and the group discussions, agreements were reached.

For the education level, it is followed the United Nations Educational, Scientific and Cultural Organization (UNESCO)'s International Standard Classification of Education:

Level	ISCED 2011
0	Early childhood educational development and Pre-primary education
1	Primary education
2	Lower secondary education
3	Upper secondary education
4	Post-secondary non-tertiary education
5	Short-cycle tertiary education
6	Bachelor or equivalent
7	Master or equivalent

Recommendations

The group recommended to report gender by: Male, Female, Unknown, and [blank].

The group recommended to report age by the following age groups: <15, 15-24, 25-39, 40-64. >64, Unknown, and [blank].

The group recommended to report education level by: Low (ISCED 2011 levels 0-2), Medium (ISCED 2011 levels 3-4), High (ISCED 2011 levels 5 and higher), Unknown, and [blank].

The group recommended to report nationality by: National, EU, EEA, non-EU/EEA, Unknown, and [blank].

The group recommended to report employment status by: Owner, Employee, Unknown, and [blank]. On a voluntary basis, employee can be reported further disaggregated into Employee Full-time and Employee Part-time.

The group recommended to include the possibility to report unknown as a close-ended response category for all the social data requested.

3.e. Need to raise social data from sample to whole population? Potential methods

The group discussed whether there was need to raise the social data from the sample to the whole population before reporting it, and potential raising methods.

Recommendations

The group recommended to report raised social data. The group noted that MS are in the best position to know how to raise their sample data to their whole population.

The group recommended to report the sampling size.

TOR 4. Discuss and agree the reporting structure for the data call.

The group discussed and agreed on a draft template for the requested social data

Recommendations

The group recommended not to report additional social indicators, even if the MS collected them. In any case, information on these additional social indicators could be added by the experts when writing the national chapter if they consider relevant.

The group agreed on a draft template for the requested social data in Annex 7, and the corresponding csv file template draft for uploading social data has been prepared by the JRC.

TOR 5. AOB.

No other issues were raised during the group meeting.

Conclusions and recommendations

Based on the discussions on the four TOR the working group drew the following conclusions and recommendations:

- No major changes to the DCF which ensures time-series.
- Some MS may be able to back-calculate some, or all, of the new economic variables.
- The group agreed with DG MARE's intention of producing a stand-alone chapter on social indicators in the annex of the 2019 AER of the EU fishing fleet.
- The group proposed a national MS chapter structure to report the social indicators (See Annex 6).
- The group highlighted the importance that the social data template needs to be flexible to accommodate the reporting of data at different stratification levels and the reporting of data independently or combined, depending on the MS needs. The group agreed on a draft template for the requested social data (see Annex 7).
- The regulation on the collection of social variables does not specify the need to use stratification and consequently MS are only obliged to report national totals. However, the group recognised that reporting social variables at more disaggregated levels could be desirable when added value to the social analysis is provided. The group recommended the following potential stratification levels: supra region, main fishing technique, vessel length group, fishing activity, geo-indicator, cluster name, as well as the possibility to report individual data.

Annex 1. List of participants

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Annex 2. TOR 1b. MS checklist on economic variables

1. Bulgaria

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
BGR	Gross value of landings (euro)	N	Census	N			Υ	
BGR	Income from leasing out quota or other fishing rights (euro)	N	Census	N			Υ	
BGR	Other income (euro)	N	Census	N			Y	
BGR	Personnel costs (euro)	N	Census	N			Υ	
BGR	Value of unpaid labour (euro)	N	Census	N			Y	
BGR	Energy costs (euro)	N	Census	N			Y	
BGR	Repair and maintenance costs (euro)	N	Census	N			Y	
BGR	Variable costs (euro)	N	Census	N			Y	
BGR	Non-variable costs (euro)	N	Census	N			Y	
BGR	Lease/rental payments for quota or other fishing rights (euro)	N	Census	N			Y	
BGR	Operating subsidies (euro)	Υ	Census	N			Y	
BGR	Subsidies on investments (euro)	New	Census	N			N	
BGR	Consumption of fixed capital (euro)	N	Census	N			Y	
BGR	Value of physical capital (euro)	N	Census	N			Y	
BGR	Value of quota and other fishing rights (euro)	N	Census	N			Y	
BGR	Investments in tangible assets, net (euro)	N	Census	N			Y	
BGR	Long/short debt (euro)	N	Census	N			Y	
BGR	Total assets (euro)	N	Census	N			Y	
BGR	Engaged crew (Number)	N	Census	N			Y	
BGR	Unpaid labour (Number)	New	Census	N			N	
BGR	Total hours worked per year (hours)	New	Census	N			N	
BGR	FTE National (Number)	EUMAP social variable	Census	N			Y	We can still provide the data, if it is needed.
BGR	Number of vessels (Number)	N	Census	N			Υ	
BGR	Mean LOA of vessels (Meters)	N	Census	N			Y	
BGR	Total vessel's tonnage (GT)	N	Census	N			Υ	
BGR	Total vessel's power (kW)	N	Census	N			Υ	
BGR	Mean age of vessels (years)	N	Census	N			Υ	
BGR	Days at sea (days)	N	Census	N			Υ	
BGR	Energy consumption (litres)	N	Census	N			Υ	
BGR	Number of fishing enterprises/units	N	Census	N			Υ	
BGR	Value of landings per species (euro)	N	Census	N			Υ	
BGR	Average price per species (euro/kg)	N	Census	N			Υ	

2. Croatia

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used? ▼	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?		Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
HRV	Gross value of landings (euro)	N	Census 2. Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Income from leasing out quota or other fishing rights (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Other income (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Personnel costs (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Value of unpaid labour (euro)	N		N		Υ	all years since 2012	
HRV	Energy costs (euro)	N	2. Derived from administrative sources or other surveyed variables	Y, started developing a			all years since 2012	
HRV	Repair and maintenance costs (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Variable costs (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Non-variable costs (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Lease/rental payments for quota or other fishing rights (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Operating subsidies (euro)	N	2. Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Subsidies on investments (euro)	New	2. Derived from administrative sources or other surveyed variables				all years since 2012	
HRV	Consumption of fixed capital (euro)	N	1. Obtained directly from survey> PIM	N			all years since 2012	
HRV	Value of physical capital (euro)	N	1. Obtained directly from survey> PIM	N			all years since 2012	
HRV	Value of quota and other fishing rights (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Investments in tangible assets, net (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Long/short debt (euro)	N	1. Obtained directly from survey	N			all years since 2012	
HRV	Total assets (euro)	N	Survey	N			all years since 2012	
HRV	Engaged crew (Number)	N	Survey	N			all years since 2012	
HRV	Unpaid labour (Number)	New	Survey				all years since 2012	
HRV	Total hours worked per year (hours)	New	Survey				all years since 2012	
HRV	FTE National (Number)	EUMAP social variable	1. Obtained directly from survey	N			all years since 2012	
HRV	Number of vessels (Number)	N	2. Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Mean LOA of vessels (Meters)	N	2. Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Total vessel's tonnage (GT)	N	2. Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Total vessel's power (kW)	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Mean age of vessels (years)	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Days at sea (days)	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Energy consumption (litres)	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Number of fishing enterprises/units	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Value of landings per species (euro)	N	Derived from administrative sources or other surveyed variables	N			all years since 2012	
HRV	Average price per species (euro/kg)	N	2. Derived from administrative sources or other surveyed variables	N			all years since 2012	

3. Cyprus

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
CYP	Gross value of landings (euro)	N	Census+survey	N			Y	
CYP	Income from leasing out quota or other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	NA	N/A
CYP	Other income (euro)	N	Survey	N			Υ	
CYP	Personnel costs (euro)	N	Survey	N			Υ	
CYP	Value of unpaid labour (euro)	N	Derived (Method A)	N			Y	
CYP	Energy costs (euro)	N	Directly from Survey	N			Υ	
CYP	Repair and maintenance costs (euro)	N	Directly from Survey	N			Y	
CYP	Variable costs (euro)	N	Directly from Survey	N			Υ	
CYP	Non-variable costs (euro)	N	Directly from Survey	N			Y	
CYP	Lease/rental payments for quota or other fishing rights (euro)	N/A					Y	
CYP	Operating subsidies (euro)	N	Administrative sources	N			Y	
CYP	Subsidies on investments (euro)	New	Administrative sources				Y	
CYP	Consumption of fixed capital (euro)	N	PIM Method				Y	
CYP	Value of physical capital (euro)	N	PIM Method				Y	
CYP	Value of quota and other fishing rights (euro)	N/A					NA	
СҮР	Investments in tangible assets, net (euro)		Addministrative sources and Directly from Surveys / From Financial Accounts for large scale vessels				Y	
CYP	Long/short debt (euro)	N	Directly from Survey or from Financial Accounts if available				Υ	
CYP	Total assets (euro)	N	PIM Method				Y	
CYP	Engaged crew (Number)	N	Directly from survey and Administrative sources for SSF				Υ	
CYP	Unpaid labour (Number)	New	Directly from survey				Υ	excludes onshore unpaid labour (family members)
CYP	Total hours worked per year (hours)	New	Directly from survey				N	
CYP	FTE National (Number)	EUMAP social variable					Y	
CYP	Number of vessels (Number)	N	FVR				Y	
CYP	Mean LOA of vessels (Meters)	N	FVR				Υ	
CYP	Total vessel's tonnage (GT)	N	FVR				Υ	
CYP	Total vessel's power (kW)	N	FVR				Υ	
CYP	Mean age of vessels (years)	N	FVR				Y	
CYP	Days at sea (days)	N	Administrative sources				Υ	
СҮР	Energy consumption (litres)	N	Directly from survey and Administrative sources				Υ	
CYP	Number of fishing enterprises/units	N	FVR				Υ	
СҮР	Value of landings per species (euro)		Volume of landings multiplied by prices				Υ	
CYP	Average price per species (euro/kg)	N	Fish Mongers				Υ	

4. Denmark

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
	Gross value of landings (euro)	N	Census	N			All years	
DNK	Income from leasing out quota or other fishing rights (euro)	N	Survey	N			All years	
DNK	Other income (euro)	N	Survey	N			All years	
DNK	Personnel costs (euro)	N	Survey	N			All years	
DNK	Value of unpaid labour (euro)	N	Survey	N			All years	
DNK	Energy costs (euro)	N	Survey	N			All years	
DNK	Repair and maintenance costs (euro)	N	Survey	N			All years	
DNK	Variable costs (euro)	N	Survey	N			All years	
DNK	Non-variable costs (euro)	N	Survey	N			All years	
DNK	Lease/rental payments for quota or other fishing rights (euro)	N	Survey	N			All years	
DNK	Operating subsidies (euro)		Survey	N			All years	
DNK	Subsidies on investments (euro)	New	Survey	N			All years	
DNK	Consumption of fixed capital (euro)	N	Survey	N			All years	
DNK	Value of physical capital (euro)	N	Survey	N			All years	
DNK	Value of quota and other fishing rights (euro)	N	Survey	N			All years	
DNK	Investments in tangible assets, net (euro)	N	Survey	N			All years	
DNK	Long/short debt (euro)	N	Survey	N			All years	
DNK	Total assets (euro)	N	Survey	N			All years	
DNK	Engaged crew (Number)	N	Survey	N			All years	
DNK	Unpaid labour (Number)	New	Survey	N			All years	
DNK	Total hours worked per year (hours)	New	Survey	N			All years	
DNK	FTE National (Number)	EUMAP social variable	Survey	N			All years	
DNK	Number of vessels (Number)	N	Census	N			All years	
DNK	Mean LOA of vessels (Meters)	N	Census	N			All years	
	Total vessel's tonnage (GT)	N	Census	N			All years	
DNK	Total vessel's power (kW)	N	Census	N			All years	
DNK	Mean age of vessels (years)	N	Census	N			All years	
DNK	Days at sea (days)	N	Census	N			All years	
DNK	Energy consumption (litres)	N	Survey	N			All years	
DNK	Number of fishing enterprises/units	N	Census	N			All years	
DNK	Value of landings per species (euro)	N	Census	N			All years	
DNK	Average price per species (euro/kg)	Live weight	Census	N			All years	

5. Finland

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
FIN	Gross value of landings (euro)	N	Survey/Census	N				
FIN	Income from leasing out quota or other fishing rights (euro)	N	Survey/Census	N				
FIN	Other income (euro)	N	Survey/Census	N				
FIN	Personnel costs (euro)	N	Survey/Census	N				
FIN	Value of unpaid labour (euro)	N	Survey/Census	N				
FIN	Energy costs (euro)	N	Survey/Census	N				
FIN	Repair and maintenance costs (euro)	N	Survey/Census	N				
FIN	Variable costs (euro)	N	Survey/Census	N				
FIN	Non-variable costs (euro)	N	Survey/Census	N				
FIN	Lease/rental payments for quota or other fishing rights (euro)	N	Survey/Census	N				
FIN	Operating subsidies (euro)	N	Survey/Census	N				
FIN	Subsidies on investments (euro)	New	Survey/Census					
FIN	Consumption of fixed capital (euro)	N	Survey/Census	N				
FIN	Value of physical capital (euro)	N	Survey/Census	N				
FIN	Value of quota and other fishing rights (euro)	N	Survey/Census	N				
FIN	Investments in tangible assets, net (euro)	N	Survey/Census	N				
FIN	Long/short debt (euro)	Υ	Survey/Census	Y	Values will be taken from balance sheet	Most likely can be back calculated	2008-	
FIN	Total assets (euro)	N	Survey/Census	N				
FIN	Engaged crew (Number)	N	Survey/Census					
FIN	Unpaid labour (Number)	New	Not available	Υ	Data or estimate not available	No	Not available	
FIN	Total hours worked per year (hours)	New	Not available. Can be derived from FTE?	Υ	Not available. Estimate based on FTE.	Not available. Estimate based on FTE.	Not available. Estimate based on FTE.	
FIN	FTE National (Number)	EUMAP social variable	Survey/Census					
FIN	Number of vessels (Number)	N	Cencus	N				
FIN	Mean LOA of vessels (Meters)	N	Cencus	N				
FIN	Total vessel's tonnage (GT)	N	Cencus	N				
FIN	Total vessel's power (kW)	N	Cencus	N				
FIN	Mean age of vessels (years)	N	Cencus	N				
FIN	Days at sea (days)	N	Cencus	N				
FIN	Energy consumption (litres)	N	Cencus	N				
FIN	Number of fishing enterprises/units	N	Cencus	N				
FIN	Value of landings per species (euro)	N	Survey/Census	N				
FIN	Average price per species (euro/kg)	N	Survey/Census	N				

6. Germany

MS	EUMAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method change d2	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?		Comments?
-T					*	whenr	▼	
DEU	Gross value of landings (euro)	N	census	N				
DEU	Income from leasing out quota or other fishing rights (euro)	N	NA	N 				
DEU	Other income (euro)	N	survey, census	N				
DEU	Personnel costs (euro)	N	survey, census	N				
DEU	Value of unpaid labour (euro)	N	derived	N				
DEU	Energy costs (euro)	N	survey, census	N				
DEU	Repair and maintenance costs (euro)	N	survey, census	N				
DEU	Variable costs (euro)	N	survey, census	N				
DEU	Non-variable costs (euro)	N	survey, census	N				
DEU	Lease/rental payments for quota or other fishing rights (euro)	N	NA	N				
DEU	Operating subsidies (euro)	Υ	survey, census	N				Original variable split in two
DEU	Subsidies on investments (euro)	New	survey, census	New				Original variable split in two
DEU	Consumption of fixed capital (euro)	N	derived	N				
DEU	Value of physical capital (euro)	N	survey, census	N				
DEU	Value of quota and other fishing rights (euro)	N	NA	N				
DEU	Investments in tangible assets, net (euro)	N	survey, census	N				
DEU	Long/short debt (euro)	Υ	survey, census	Υ				
DEU	Total assets (euro)	Y/N	derived	N				Balance sheet total in most cases unavailable
DEU	Engaged crew (Number)	N	survey, census	N				
DEU	Unpaid labour (Number)	New	derived	New				
DEU	Total hours worked per year (hours)	New	derived	New				
DEU	FTE National (Number)	EUMAP social variable	derived, survey, census	N				
DEU	Number of vessels (Number)	N	census	N				
DEU	Mean LOA of vessels (Meters)	N	census	N				
DEU	Total vessel's tonnage (GT)	N	census	N				
DEU	Total vessel's power (kW)	N	census	N				
DEU	Mean age of vessels (years)	N	census	N				
DEU	Days at sea (days)	N	survey, census	N				
DEU	Energy consumption (litres)	N	survey, census	N				
DEU	Number of fishing enterprises/units	N	census	N				
DEU	Value of landings per species (euro)	N	census	N				
DEU	Average price per species (euro/kg)	N	census	N				

7. Greece

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method change d2	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
GRC	Gross value of landings (euro)	N	Census (ERS) + Survey (for <12m)	N			No data from reference year <2012	N
GRC	Income from leasing out quota or other fishing rights (euro)	N	n.a	N			No data from reference year <2012	N
GRC	Other income (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Personnel costs (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Value of unpaid labour (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Energy costs (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Repair and maintenance costs (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Variable costs (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Non-variable costs (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Lease/rental payments for quota or other fishing rights (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Operating subsidies (euro)	N	Survey	N			No data from reference year <2012	N
GRC	Subsidies on investments (euro)	New	Survey	N			No data from reference year <2012	N
GRC	Consumption of fixed capital (euro)		Survey + PIM	N			No data from reference year <2012	N
GRC	Value of physical capital (euro)		Survey + PIM	N			No data from reference year <2012	N
GRC	Value of quota and other fishing rights (euro)		n.a	N			No data from reference year <2012	N
GRC	Investments in tangible assets, net (euro)		Survey	N			No data from reference year <2012	N
GRC	Long/short debt (euro)		Survey	N			No data from reference year <2012	N
GRC	Total assets (euro)		Survey	N			No data from reference year <2012	N
GRC	Engaged crew (Number)		Survey	N			No data from reference year <2012	N
GRC	Unpaid labour (Number)	New	Survey	N			No data from reference year <2012	N
GRC	Total hours worked per year (hours)	New	Survey	N			No data from reference year <2012	N
GRC	FTE National (Number)	EUMAP social variable	Survey	N			No data from reference year <2012	N
GRC	Number of vessels (Number)		Census	N			No data from reference year <2012	N
GRC	Mean LOA of vessels (Meters)		Census	N			No data from reference year <2012	N
GRC	Total vessel's tonnage (GT)		Census	N			No data from reference year <2012	N
GRC	Total vessel's power (kW)		Census	N			No data from reference year <2012	N
GRC	Mean age of vessels (years)		Census	N			No data from reference year <2012	N
GRC	Days at sea (days)		Census (ERS) + Survey (for <12m)	N			No data from reference year <2012	N
GRC	Energy consumption (litres)		Survey	N			No data from reference year <2012	N
GRC	Number of fishing enterprises/units		Census	N			No data from reference year <2012	N
GRC	Value of landings per species (euro)		Census (ERS) + Survey (for <12m)	N			No data from reference year <2012	N
GRC	Average price per species (euro/kg)		Census (ERS) + Survey	N			No data from reference year <2012	N

8. Ireland

_				1				
MS _T	EUMAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method change d2	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
IRL	Gross value of landings (euro)	N	Census and Sampling Survey	N			All Years	
IRL	Income from leasing out quota or other fishing rights (euro)	N	N/A	N/A			All Years	
IRL	Other income (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Personnel costs (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Value of unpaid labour (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Energy costs (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Repair and maintenance costs (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Variable costs (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Non-variable costs (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Lease/rental payments for quota or other fishing rights (euro)	N/A	NA	N			All Years	
IRL	Operating subsidies (euro)	N	Census	N			All Years	
IRL	Subsidies on investments (euro)	New	Census	N			All Years	
IRL	Consumption of fixed capital (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Value of physical capital (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Value of quota and other fishing rights (euro)	N/A	NA	N			All Years	
IRL	Investments in tangible assets, net (euro)	N	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Long/short debt (euro)	N	Sampling Survey	N			All Years	
IRL	Total assets (euro)	N	Sampling Survey	N			All Years	
IRL	Engaged crew (Number)	N	Sampling Survey	N			All Years	
IRL	Unpaid labour (Number)	New	Sampling Survey	Υ	We ask for unnaid hours and a FTF	Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	2017	
IRL	Total hours worked per year (hours)	New	Sampling Survey	Y		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	2017	
IRL	FTE National (Number)	EUMAP social variable	Sampling Survey	N		Raising Methodologies have changed but if there data will be estimated for all years using new methodology so data is consistent.	All Years	
IRL	Number of vessels (Number)	N	Census	N			All Years	
IRL	Mean LOA of vessels (Meters)	N	Census	N			All Years	
IRL	Total vessel's tonnage (GT)	N	Census	N			All Years	
IRL	Total vessel's power (kW)	N	Census	N			All Years	
IRL	Mean age of vessels (years)	N	Census	N			All Years	
IRL	Days at sea (days)	N	Census	N			All Years	
IRI	Energy consumption (litres)	N	Sampling Survey	N			All Years	
IRL	Number of fishing enterprises/units	N.	Census	N			All Years	
		N N						
IRL	Value of landings per species (euro)	N	Census	N			All Years	
IRL	Average price per species (euro/kg)	N	Census	N			All Years	

9. Italy

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method change d2	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF	Comments?
ITA	Gross value of landings (euro)	N	SURVEY	N			Υ	
ITA	Income from leasing out quota or other fishing rights (euro)	N	SURVEY	N			Υ	
ITA	Other income (euro)	N	SURVEY	N			Υ	
ITA	Personnel costs (euro)	N	SURVEY	N				
ITA	Value of unpaid labour (euro)	N	DERIVED	N			Υ	
ITA	Energy costs (euro)	N	SURVEY	N			Υ	
ITA	Repair and maintenance costs (euro)	N	SURVEY	N			Υ	
ITA	Variable costs (euro)	N	SURVEY	N			Υ	
ITA	Non-variable costs (euro)	N	SURVEY	N			Υ	
ITA	Lease/rental payments for quota or other fishing rights (euro)	N	SURVEY	N			Υ	
ITA	Operating subsidies (euro)	N	CENSUS	N			Υ	
ITA	Subsidies on investments (euro)	New	CENSUS				N	
ITA	Consumption of fixed capital (euro)	N	DERIVED	N			Y	
ITA	Value of physical capital (euro)	N	ESTIMATED (PIM)	N			Υ	
ITA	Value of quota and other fishing rights (euro)	N	CENSUS	N				
ITA	Investments in tangible assets, net (euro)	N	SURVEY	N			Υ	
ITA	Long/short debt (euro)	N	DERIVED	N			N	
ITA	Total assets (euro)	N	DERIVED	N			N	
ITA	Engaged crew (Number)	N	SURVEY	N			Υ	
ITA	Unpaid labour (Number)	New	SURVEY + ESTIMATION				N	
ITA	Total hours worked per year (hours)	New	SURVEY				N	
ITA	FTE National (Number)	EUMAP social	SURVEY + ESTIMATION	N			Υ	
ITA	Number of vessels (Number)	N	CENSUS	N			Υ	
ITA	Mean LOA of vessels (Meters)	N	CENSUS	N			Υ	
ITA	Total vessel's tonnage (GT)	N	CENSUS	N			Υ	
ITA	Total vessel's power (kW)	N	CENSUS	N			Υ	
ITA	Mean age of vessels (years)	N	CENSUS	N			Υ	
ITA	Days at sea (days)	N	SURVEY	N			Υ	
ITA	Energy consumption (litres)	N	SURVEY	N			Υ	
ITA	Number of fishing enterprises/units	N	CENSUS	N	·		Υ	
ITA	Value of landings per species (euro)	N	SURVEY	N	·		Y	
ITA	Average price per species (euro/kg)	N	SURVEY	N			Υ	

10. Latvia

MS -T	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method change d2	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect).	Comments?
LVA	Gross value of landings (euro)	N	Calculation based on Census	N	·	N/A	Υ	
LVA	Income from leasing out quota or other fishing rights (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Other income (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Personnel costs (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Value of unpaid labour (euro)	N	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Energy costs (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Repair and maintenance costs (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Variable costs (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Non-variable costs (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Lease/rental payments for quota or other fishing rights (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Operating subsidies (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Subsidies on investments (euro)	New	Census	N	N/A	N/A	Υ	
LVA	Consumption of fixed capital (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Value of physical capital (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Value of quota and other fishing rights (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Investments in tangible assets, net (euro)	N	Census	N	N/A	N/A	Υ	
LVA	Long/short debt (euro)	N	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Total assets (euro)	N	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Engaged crew (Number)	N	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Unpaid labour (Number)	New	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Total hours worked per year (hours)	New	Calculation based on Census	N	N/A	N/A	Υ	
LVA	FTE National (Number)	EUMAP social	Census	N/A	N/A	N/A	N/A	
LVA	Number of vessels (Number)	N	Census	N	N/A	N/A	Υ	
LVA	Mean LOA of vessels (Meters)	N	Census	N	N/A	N/A	Υ	
LVA	Total vessel's tonnage (GT)	N	Census	N	N/A	N/A	Υ	
LVA	Total vessel's power (kW)	N	Census	N	N/A	N/A	Υ	
LVA	Mean age of vessels (years)	N	Census	N	N/A	N/A	Υ	
LVA	Days at sea (days)	N	Census	N	N/A	N/A	Υ	
LVA	Energy consumption (litres)	N	Census	N	N/A	N/A	Υ	
LVA	Number of fishing enterprises/units	N	Census	N	N/A	N/A	Υ	
LVA	Value of landings per species (euro)	N	Calculation based on Census	N	N/A	N/A	Υ	
LVA	Average price per species (euro/kg)	N	Census	N	N/A	N/A	Υ	

11. Lithuania

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MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
LTU	Gross value of landings (euro)	N	Census	N	-	-	all years	
LTU	Income from leasing out quota or other fishing rights (euro)	N	Census	N	-	-	all years	
LTU	Other income (euro)	N	Census	N	-	-	all years	
LTU	Personnel costs (euro)	Υ	Census	N	-	-	all years	Employees on shore which are related to fishing activities are added in SCF
LTU	Value of unpaid labour (euro)	Υ	Census	N	-	-	all years	Employees on shore which are related to fishing activities are added in SCF
LTU	Energy costs (euro)	N	Census	N	-	-	all years	
LTU	Repair and maintenance costs (euro)	N	Census	N	-	-	all years	
LTU	Variable costs (euro)	N	Census	N	-	-	all years	
LTU	Non-variable costs (euro)	N	Census	N	-	-	all years	
LTU	Lease/rental payments for quota or other fishing rights (euro)	N	Census	N	-	-	all years	
LTU	Operating subsidies (euro)	N	Census	N	-		all years	
LTU	Subsidies on investments (euro)	New	census				2017	
LTU	Consumption of fixed capital (euro)	N	Census	N	-	-	all years	PIM method is used. In 2017 was updated PCU
LTU	Value of physical capital (euro)	N	Census	N	-	-	all years	PIM method is used. In 2017 was updated PCU calculation and data was
LTU	Value of quota and other fishing rights (euro)	N	Census	N	-	-	all years	
LTU	Investments in tangible assets, net (euro)	N	Census	N	-	-	all years	
LTU	Long/short debt (euro)	N	Census	N	-	-	all years	
LTU	Total assets (euro)	N	Census	N	-	-	all years	
LTU	Engaged crew (Number)	Υ	Census	N	-		all years	Employees on shore which are related to fishing activities are added in SCF
LTU	Unpaid labour (Number)	New	census	N			all years	
LTU	Total hours worked per year (hours)	New	census	N			all years	
LTU	FTE National (Number)	EUMAP social	census	N			all years	
LTU	Number of vessels (Number)	N	Census	N	-	-	all years	
LTU	Mean LOA of vessels (Meters)	N	Census	N	-	-	all years	
LTU	Total vessel's tonnage (GT)	N	Census	N	-	-	all years	
LTU	Total vessel's power (kW)	N	Census	N	-	-	all years	
LTU	Mean age of vessels (years)	N	Census	N	-	-	all years	
LTU	Days at sea (days)	N	Census	N	-	-	all years	
LTU	Energy consumption (litres)	N	Census	N	-	-	all years	
LTU	Number of fishing enterprises/units	N	Census	N			all years	
LTU	Value of landings per species (euro)	N	Census	N	-	-	all years	
LTU	Average price per species (euro/kg)	N	Census	N	-	-	all years	

12. Poland

				Has the collection or	If yes (F), what will the impact be on		Data availability	1
MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	estimation	the values reported?	If methodology has changed, can the data be back-calculated? To when?	(all years since DCF 2008-, EUMAP, ect)	Comments?
JT.	▼	▼	~	method change	▼	▼	2008 , EUWAI , E	~
POL	Gross value of landings (euro)	N	Census/survey	N			ALL	
POL	Income from leasing out quota or other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	N/A	
POL	Other income (euro)	N	Census/survey	N			ALL	
POL	Personnel costs (euro)	N	Census/survey	N			ALL	
POL	Value of unpaid labour (euro)	N	Census/survey	N			ALL	
POL	Energy costs (euro)	N	Census/survey	N			ALL	
POL	Repair and maintenance costs (euro)	N	Census/survey	N			ALL	
POL	Variable costs (euro)	N	Census/survey	N			ALL	
POL	Non-variable costs (euro)	N	Census/survey	N			ALL	
POL	Lease/rental payments for quota or other fishing rights (euro)	N/A	NA	N				
POL	Operating subsidies (euro)	N	census	N			ALL	
POL	Subsidies on investments (euro)	New	census				NO	
POL	Consumption of fixed capital (euro)	N	census	N			ALL	
POL	Value of physical capital (euro)	N	census	N			ALL	
POL	Value of quota and other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	N/A	
POL	Investments in tangible assets, net (euro)	N	Census/survey	N			ALL	
POL	Long/short debt (euro)	N	Census/survey	N			ALL	
POL	Total assets (euro)	N	Census/survey	N			ALL	
POL	Engaged crew (Number)		Census/survey	N			ALL	
POL	Unpaid labour (Number)	New	Census/survey				ALL	
POL	Total hours worked per year (hours)	New	Census/survey				ALL	
POL	FTE National (Number)	EUMAP social variable	Census/survey					
POL	Number of vessels (Number)	N	census	N			ALL	
POL	Mean LOA of vessels (Meters)	N	census	N			ALL	
POL	Total vessel's tonnage (GT)	N	census	N			ALL	
POL	Total vessel's power (kW)	N	census	N			ALL	
POL	Mean age of vessels (years)	N	census	N			ALL	
POL	Days at sea (days)	N	census	N			ALL	
POL	Energy consumption (litres)	N	census	N			ALL	
POL	Number of fishing enterprises/units	N	census	N			ALL	
POL	Value of landings per species (euro)	N	census	N			ALL	
POL	Average price per species (euro/kg)	N	census	N			ALL	

13. Portugal

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MS	EU MAP	Any change to the DCF (Y/N) ▼	What data collection method is used?	Has the collection or estimation method change	If yes (F), what will the impact be on the values reported?	the data be back-calculated? To	Data availability (all years since DCF 2008-, EUMAP, e	Comments?
PRT	Gross value of landings (euro)	N	Survey	N	-	-	Y	-
PRT	Income from leasing out quota or other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	N/A	In Portugal there is no evaluation of fishing rights. The fishing rights belong to the state that gives the exploration of the sector through the licensing system.
PRT	Other income (euro)	N	Survey	N	-	-	Υ	-
PRT	Personnel costs (euro)	N	Survey	N	-	-	γ	-
PRT	Value of unpaid labour (euro)	N	Survey	N	-	-	γ	-
PRT	Energy costs (euro)	N	Survey/census	N	-	-	Υ	In same cases energy costs declared in the survey is used. For specific situations fuel subsidies (administrative data) is used to estimate energy costs.
PRT	Repair and maintenance costs (euro)	N	Survey	N	-	-	Υ	-
PRT	Variable costs (euro)	N	Survey	N	-	-	Υ	-
PRT	Non-variable costs (euro)	N	Survey	N	-	-	Υ	
PRT	Lease/rental payments for quota or other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	N/A	In Portugal there is no evaluation of fishing rights. The fishing rights belong to the state that gives the exploration of the sector through the licensing system.
PRT	Operating subsidies (euro)	Υ	Survey	Y	Subsidies were divided into operating subsidies and subsidies on investments in the survey.	N	Y	It is being analyzed whether the treatment of these new variables will be the same as the direct subsidies.
PRT	Subsidies on investments (euro)	Υ	Survey	Y	Subsidies were divided into operating subsidies and subsidies on investments in the survey.	N	N	It is being analyzed whether the treatment of these new variables will be the same as the direct subsidies.
PRT	Consumption of fixed capital (euro)	Υ	Survey and derived	Υ	It is considered different lifetime according the kind of asset and the vessel lenght	Υ	Y	-
PRT	Value of physical capital (euro)	Υ	Survey and derived	Υ	It is considered different lifetime according the kind of asset and the vessel lenght	Υ	Υ	-
PRT	Value of quota and other fishing rights (euro)	N/A	N/A	N/A	N/A	N/A	N/A	In Portugal there is no evaluation of fishing rights. The fishing rights belong to the state that gives the exploration of the sector through the licensing system.
PRT	Investments in tangible assets, net (euro)	N	Survey	N	-	-	Υ	-
PRT	Long/short debt (euro)	N	Survey	N	-	-	Υ	-
PRT	Total assets (euro)	N	Survey	N	-	-	Υ	-
PRT	Engaged crew (Number)	N	Survey	N	-	-	Υ	-
PRT	Unpaid labour (Number)	New	Survey	-	-	-	?	
PRT	Total hours worked per year (hours)	New	derived	-	-	_	Υ	-
PRT	FTE National (Number)	EUMAP social variable	-	-	-	-	Y	-
PRT	Number of vessels (Number)	N	Census	N	-	-	Y	
PRT		N.	Census	N.			·	
	Mean LOA of vessels (Meters)	IN .		IN .	<u></u>		' '	<u>-</u>
PRT	Total vessel's tonnage (GT)	N	Census	N	-	-	Y	-
PRT	Total vessel's power (kW)	N	Census	N	-	-	Υ	-
PRT	Mean age of vessels (years)	N	Census	N	-	-	Υ	-
PRT	Days at sea (days)	N	Survey/logbooks/sales notes	N	-	-	Υ	-
PRT	Energy consumption (litres)	N	Survey and derived	N	-	-	Υ	-
PRT	Number of fishing enterprises/units	N	Survey	N	-	-	Υ	-
PRT	Value of landings per species (euro)	N	Survey/logbooks/sales notes	N	-	-	Υ	-
PRT	Average price per species (euro/kg)	N	logbooks/sales notes	N	-	-	Υ	-
		I						

14. Slovenia

MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To when?	Data availability (all years since DCF 2008-, EUMAP, ect)	Comments?
Ţ,	▼	▼	▼	method change 🔻	▼	▼	▼	▼
SVN	Gross value of landings (euro)	N	Census	N			Υ	
SVN	Income from leasing out quota or other fishing rights (euro)	N	Census	N			Υ	
SVN	Other income (euro)	N	Census	N			Υ	
SVN	Personnel costs (euro)	N	Census	N			Υ	
SVN	Value of unpaid labour (euro)	N	Census	N			Υ	
SVN	Energy costs (euro)	N	Census	N			Υ	
SVN	Repair and maintenance costs (euro)	N	Census	N			Υ	
SVN	Variable costs (euro)	N	Census	N			Υ	
SVN	Non-variable costs (euro)	N	Census	N			Υ	
SVN	Lease/rental payments for quota or other fishing rights (euro)	N	Census	N			Υ	
SVN	Operating subsidies (euro)	Y	Census	N				Reporting excluding fuel tax exemption, subsidies for permanent cessation of fishing activities and investment subsidies (fleet modernization)
SVN	Subsidies on investments (euro)	New	Census	N			Υ	
SVN	Consumption of fixed capital (euro)	N	Census	N			Υ	
SVN	Value of physical capital (euro)	N	Census	N			Υ	
SVN	Value of quota and other fishing rights (euro)	N	Census	N			Υ	
SVN	Investments in tangible assets, net (euro)	N	Census	N			Υ	
SVN	Long/short debt (euro)	N	Census	N			Υ	
SVN	Total assets (euro)	N	Census	N			Υ	
SVN	Engaged crew (Number)	N	Census	N			Υ	
SVN	Unpaid labour (Number)	New	Census	N			Υ	
SVN	Total hours worked per year (hours)	New	Census	N			Υ	
SVN	FTE National (Number)	EUMAP social variable	Census	N			Y	SVN will/can provide the information also in the future data calls
SVN	Number of vessels (Number)	N	Census	N			Υ	
SVN	Mean LOA of vessels (Meters)	N	Census	N			Υ	
SVN	Total vessel's tonnage (GT)	N	Census	N			Υ	
SVN	Total vessel's power (kW)	N	Census	N			Υ	
SVN	Mean age of vessels (years)	N	Census	N			Υ	
SVN	Days at sea (days)	N	Census	N			Υ	
SVN	Energy consumption (litres)	N	Census	N			Υ	
SVN	Number of fishing enterprises/units	N	Census	N			Υ	
SVN	Value of landings per species (euro)	N	Census	N		_	Υ	
SVN	Average price per species (euro/kg)	N	Census	N			Y	

15. Sweden

_								
MS	EU MAP	Any change to the DCF (Y/N)	What data collection method is used?	Has the collection or estimation method changed?	If yes (F), what will the impact be on the values reported?	If methodology has changed, can the data be back-calculated? To wh	Data availability (all years since DCF 2008-, EUMAP, ect)	
SWE	Gross value of landings (euro)	N	Census	N	-	-	Allyears	
SWE	Income from leasing out quota or other fishing rights (euro)	N	Census	N	-	-	All years	
SWE	Other income (euro)	N	Census	N	-	-	All years	
SWE	Personnel costs (euro)	N	Census/survey (combination)	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	Economic variables have been collected by SwAM by segments (30 homogenous segments), due to secrecy. During 2018 SwAM can access the microdata instead, which means better and more dynamic estimates. A new estimation method is also under development (regression, OLS or poisson). Thus results will be more accurate and more stable over time. The data can be back-calculated. These changes applies to all variables where "Collection and estimation method changed slightly" are mentioned.
SWE	Value of unpaid labour (euro)	N		Collection and estimation method changed slightly.	More accurate results	Yes, all years	Allyears	
SWE	Energy costs (euro)	N	Census/survey (combination)	Collection and estimation method changed slightly.	More accurate results	Yes, all years	Allyears	
SWE	Repair and maintenance costs (euro)	N		Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	Variable costs (euro)	N	Census/survey (combination)	Collection and estimation method changed slightly.	More accurate results		Allyears	
SWE	Non-variable costs (euro) Lease/rental payments for quota or other	N	Census/survey (combination)	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	fishing rights (euro)	N	Census/survey (combination)	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	Operating subsidies (euro)	N	Survey	N	-	-	Allyears	
SWE	Subsidies on investments (euro)	New						
SWE	Consumption of fixed capital (euro)	N	Survey	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	Value of physical capital (euro)	N	Survey	Collection and estimation method changed slightly.	More accurate results	Yes, all years	Allyears	
SWE	Value of quota and other fishing rights (euro)	N/A						Fishing rights are not valued in Sweden.
SWE	Investments in tangible assets, net (euro)	N	Survey	Collection and estimation method changed slightly.	More accurate results	Yes, all years	Allyears	
SWE	Long/short debt (euro)	N	Survey	N	-	-	Allyears	
SWE	Total assets (euro)	N	Survey	N	•	-	Allyears	
SWE	Engaged crew (Number)	N	Survey	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	Unpaid labour (Number)	New						
SWE	Total hours worked per year (hours)	New						
SWE	FTE National (Number)	EUMAP SOCIAI variable						
SWE	Number of vessels (Number)	N	Census	N		-	Allyears	
SWE	Mean LOA of vessels (Meters)	N	Census	N		-	Allyears	
SWE	Total vessel's tonnage (GT)	N	Census	N	-	-	Allyears	
SWE	Total vessel's power (kW)	N	Census	N	-	-	All years	
SWE	Mean age of vessels (years)	N	Census	N	-	-	All years	
SWE	Days at sea (days)	N	Census	N	-	-	All years	
SWE	Energy consumption (litres)	N	Survey	Collection and estimation method changed slightly.	More accurate results	Yes, all years	All years	
SWE	Number of fishing enterprises/units	N	Census	N	-	-	Allyears	
SWE	Value of landings per species (euro)	N	Census	N	-	-	Allyears	
SWE	Average price per species (euro/kg)	N	Census	N	-	-	All years	

16. United Kingdom

										I	т —
Variable Group	Variable EU MAP	DCF	Any change to the DCF (Y/N)	What data collection method is used? (survey,	Has the collection or estimation method		If methodology has changed, can the data	Data availability (all years since	Any comments?	Proposed Methodologies (summarised - detailed version can be found on the FTP)	Some considerations
Income	Gross value of landings (euro)	Gross value of landings	N	Census (landing declarations, sales notes, logbooks)	No			All years		2. Derived from administrative sources or other surveyed variables	Should be identical to the sum of "value of landings per specie" and might thus be redundant. This is often not observed in the DCF
	Income from leasing out quota or other fishing rights (euro)	Income from leasing out quota or other fishing rights	N	Survey	No			All years		Obtained directly from survey	
	Other income (euro)	Other income	N	Survey	No			All years		Obtained directly from survey	
	Personnel costs (euro)	Wages and salaries of crew	N	Survey	No			All years		Obtained directly from survey	
Labour costs	Value of unpaid labour (euro)	Imputed value of unpaid labour	N	Survey	No			All years		Derived from other surveyed variables Method A , Method B or Other	
Energy Costs	Energy costs (euro)	Energy costs	N	Derived from survey data	No			All years		2. Derived from other surveyed variables	as net costs, i.e. reduced by tax refunds
Repair and maintenance costs	Repair and maintenance costs (euro)	Repair and maintenance costs	N	Survey	No			All years		1. Obtained directly from survey	should refer only to vessel, gear and equipment
	Variable costs (euro)	Variable costs	N	Survey	No			All years		Obtained directly from survey	
Other operating	Non-variable costs (euro)	Non-variable costs	N	Survey	No			All years		Obtained directly from survey	
costs	Lease/rental payments for quota or other	Lease/rental payments for quota or	N	Survey	No			All years		Obtained directly from survey	
	fishing rights (euro)	other fishing rights Direct subsidies	NI.	Cunion	No	-		All years	-	Obtained directly from survey	
	Operating subsidies (euro)	Direct subsidies	N	Survey	No			All years		Obtained directly from survey	
Subsidies	Subsidies on investments (euro)		New	New	New		not possible	only recent years	5	Obtained from administrative sources (e.g. paying Agency, Local authority)	Payments that can be classified as subsidies on investments (see definition). In case of subsidies for permanent cessation of fishing activities of those fleets which have become inactive during the year, it has to be decided if they can be classified in the segment of inactive vessel.
Capital costs	Consumption of fixed capital (euro)	Annual depreciation	N	Survey and derived from survey data	No			All years		Obtained directly from survey Derived from other surveyed variables Estimation of Capital value based on the (1) PIM method or (2) accounting data (e.g. market value, book values)	
Capital value	Value of physical capital (euro)	Value of physical capital: depreciated replacement value	N	Derived from survey data	No			All years		Obtained directly from survey Derived from other surveyed variables Estimation of Capital value based on the (1) PIM method or (2) accounting data (e.g. market value, book values)	
	Value of quota and other fishing rights (euro)	Value of quota and other fishing rights	N	Derived from survey data	No			All years		2. Derived from other surveyed variables (Seafish methodology)	
Investments	Investments in tangible assets, net (euro)	Investments in physical capital	N	Survey	No			All years		1. Obtained directly from survey	
Financial position	Long/short debt (euro)	Debt/asset ratio	N	Survey	No			All years		1. Obtained directly from survey	
	Total assets (euro)	1	N	Survey	No			All years		1. Obtained directly from survey	
	Engaged crew (Number)	Engaged crew	N	Survey	No			All years		1. Obtained directly from survey	
	Unpaid labour (Number)		New		New		not	recent years		1. Obtained directly from survey	
Employment	Total hours worked per year (hours)		N. We used this variable to estimate FTE	Survey	No			All years		Derived from other surveyed variables Calculated based on effort, number of vessels and average crew number.	Calculated based on effort, number of vessels and average crew number.
Employment	FTE National (Number)	FTE National	Not requested under economic variables in EUMAP. A social variable		No			All years		Derived from other surveyed variables	
	Number of vessels (Number)	Number of vessels	N	Community Fleet Register	No	NA	NA	All years			
	Mean LOA of vessels (Meters)	Mean LOA of vessels	N	Community Fleet Register	No	NA	NA	All years			
	Total vessel's tonnage (GT)		N	Community Fleet Register			NA	All years		1. Obtained from the Fleet register	
	Total vessel's power (kW)		N	Community Fleet Register			NA	All years			
	Mean age of vessels (years)		N	Community Fleet Register			NA	All years			
	Days at sea (days)	Days at sea	N	Census	Possibly - FECR methodology from Tranvseral Data Workshop - yet to be applied	to be determined	From 2008	All years		For the small scale fleet vessels less than 10 meters, it could be assumed that 1 Day at Sea is equivalent to 1 Fishing Day as far as no other data contradicts this hypothesis. Nevertheless, this assumption has to be assessed regionally by fishery, as significant differences can occur between them.	
	Energy consumption (litres)	Energy consumption	N	Survey	No	NA	NA	All years		3. Derived from other surveyed variables Regression models could be used by some MS (regression models using 'engine power', 'days at sea' and 'coefficient of fuel consumption by engine power')	
Number of fishing enterprises/units	Number of fishing enterprises/units	Number of fishing enterprises/units	N	Census (Fishing licensing)	No	NA	NA	All years		1. Obtained from the Fleet register	
Production	Value of landings per species (euro)	Value of landings per species (euro)	N	Census (landing declarations, sales notes, logbooks	No	NA	NA	All years			
value per species	Average price per species (euro/kg)	Average price per species (euro/kg)	N	Census (landing declarations, sales notes, logbooks	No	NA	NA	All years			

Annex 3. MS checklist on social variables

1. Bulgaria

Question \ Country	Q. number	Bulgaria
		All vessels, aquaculture and processing
Population	1	enterprises
Excluded from population?	2	N
Part of economic survey? (Y/N)	3	Υ
Reference year?	4	2017
Data collection method (sample survey, censu	s, etc.)	Census - Annual questionnaire
Observation unit	(Enterprise
Data raised? (Y/N)	7	N
If so, what methodology?	8	
Stratification in the data collection? (Y/N)	9	N
If so, what stratification? e.g. supraregion and	/or major	
fleet segments and/or SSF, DWF, LSF. For aqua	culture	
(marine, shellfish, freshwater)?	10	DCF segmentation
Is it possible to report combined responses? (
men, skippers, age 50-64 have secondary educ	ation) 11	No
If so, what combinations could be reported?	12	
When is the data collection taking place (e.g.	a particular	31st of March of the year following the year for
day/month in the year)?	13	which the data is collected.
Is double-counting avoided (crew working on	several	
vessels over the year). Is information lost on i	mportant	
seasonal behaviours of the fleets?	14	Yes
Fleet social data available by mid-end Februar	y 2019?	
[(Y/N)	15	Yes
If not, when will be available?	16	
How can you report age? (e.g. <15 / 15-24 / 25-	49 / 50-64 /	
>64)	17	< 15 / 15-24 / 25-49 / 50-64 / >64
How can you report gender? (e.g. male, femal	e). 18	Υ
How can you report nationality? (e.g. national	?, EU, EEA,	
ธุ์ non-EU/EEA)	19	National, EU, EEA, non-EU and EEA
How can you report nationality? (e.g. national non-EU/EEA) How can you report education? How can you report employment status? Are you planning to use unknown categories?	20	Primary / secondary / higher
: -		Full time temporary / Part time temporary / Full
How can you report employment status?	21	time seasonal / Part time seasonal
Are you planning to use unknown categories?	What for? 22	No
Are you planning to collect data on: Residence		No
Are you planning to collect data on: Skills Qua	lification? 24	No
Are you planning to collect data on: Job Functi	on? 25	No
Are you planning to collect data on: Remunera	ition? (e.g.	
Are you planning to collect data on: Job Function Are you planning to collect data on: Remuneration minimum wage, crew share based on, etc.) Are you planning to collect data on: Length of Are you planning to collect other additional in Shall these additional indicators be reported?	26	No
Are you planning to collect data on: Length of	service? 27	No
Are you planning to collect other additional in		No
Shall these additional indicators be reported?	29	No
Other comments?	30	

2. Croatia

ſ	Question \ Country	Q. number	Croatia
Ī	Population	1	Registered vessels and Aquaculture
Ī	Excluded from population?		Inactive vessels
- 1	Part of economic survey? (Y/N)	3	Υ
Ī	Reference year?	4	2017
Ī	Data collection method (sample survey, census, etc.)	5	Sample Survey
- 1	Observation unit	6	Vessel
Ī	Data raised? (Y/N)	7	Under development
	If so, what methodology?	8	Under development
ļ	2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
- 1	Stratification in the data collection? (Y/N)		Y
- 1	If so, what stratification? e.g. supraregion and/or major	10	DCF segmentation (Fleet segments, Nat. region)
	fleet segments and/or SSF, DWF, LSF. For aquaculture		
H	(marine, shellfish, freshwater)?		
	Is it possible to report combined responses? (e.g. 54% of	11	N
- 1	men, skippers, age 50-64 have secondary education)		
- 1	If so, what combinations could be reported?		NA
	When is the data collection taking place (e.g. a particular	13	November/December
- 1	day/month in the year)?		
	Is double-counting avoided (crew working on several	14	No. Number of jobs in reference year
	vessels over the year). Is information lost on important		
	seasonal behaviours of the fleets?		
	Fleet social data available by mid-end February 2019?	15	Y
	(Y/N)		
_	If not, when will be available?	16	
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	17	<15 / 15-24 / 25-39 / 40-64 / >64
- 1	>64)		
	How can you report gender? (e.g. male, female).		Male/Female
	How can you report nationality? (e.g. national?, EU, EEA,	19	national, EU, EEA, non-EU/EEA
- 1	non-EU/EEA)		
- 1	How can you report education?		Primary / secondary / higher
ŀ	How can you report employment status?		Employer / Employee + Permanent/Seasonal/Unpaid
_	Are you planning to use unknown categories? What for?		N
ļ	Are you planning to collect data on: Residence?	_	N
- 1	Are you planning to collect data on: Skills Qualification?		N
ļ	Are you planning to collect data on: Job Function?		Only Employer-Employee
- 1	Are you planning to collect data on: Remuneration? (e.g.	26	Not per person, total costs per crew
- 1	minimum wage, crew share based on, etc.)		
- 1	Are you planning to collect data on: Length of service?		N
- 1	Are you planning to collect other additional indicators?	28	
_	Shall these additional indicators be reported?	29	N
	Other comments?	30	N

3. Cyprus

Question \ Country	Q. number	Cyprus
Population		Register vessels actively fishing for at least one day
Excluded from population?		N
Part of economic survey? (Y/N)	3	Υ
Reference year?	4	2017
Data collection method (sample survey, census, etc.)	5	Sample survey through questionaires / for
		administrative data census
Observation unit	6	Vessel
Data raised? (Y/N)	7	Υ
If so, what methodology?	8	Same as in economics data
Stratification in the data collection? (Y/N)	9	Y
If so, what stratification? e.g. supraregion and/or major	10	Same as in economics data (fleet segments)
fleet segments and/or SSF, DWF, LSF. For aquaculture		
(marine, shellfish, freshwater)?		
Is it possible to report combined responses? (e.g. 54% of	11	Υ
men, skippers, age 50-64 have secondary education)		
If so, what combinations could be reported?	12	Ranges
When is the data collection taking place (e.g. a particular	13	At the beginning of next year
day/month in the year)?		
Is double-counting avoided (crew working on several	14	Υ
vessels over the year). Is information lost on important		
seasonal behaviours of the fleets?		
Fleet social data available by mid-end February 2019?	15	N
[(Y/N)		
If not, when will be available?	16	Y (but for people working on shore available Feb 202
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 / >64)	17	Age group (15-24 / 25-39 / 40-65 /65+)
How can you report gender? (e.g. male, female).	18	Y
How can you report nationality? (e.g. national?, EU, EEA, non-EU/EEA)	19	National, EU, non EU
How can you report education?	20	Y (Elementary / Gymnasium / Lyceeum / Degree / Master)
How can you report employment status?	21	Full time / Part time
Are you planning to use unknown categories? What for?	22	N
Are you planning to collect data on: Residence?	23	N
Are you planning to collect data on: Skills Qualification?	24	N
Are you planning to collect data on: Job Function?	25	Y (Owner / Skipper / Engineer / On board workers)
Are you planning to collect data on: Remuneration? (e.g.	26	Y for minimum wage but not for crew share
minimum wage, crew share based on, etc.)		
Are you planning to collect data on: Length of service?	27	Months of employment for the non EU assistants
Are you planning to collect other additional indicators?	28	N
Shall these additional indicators be reported?	29	Y for the indicators that we have information
Other comments?	30	N

4. Denmark

Question \ Country	Q. number	Denmark
Population	1	All enterprises
Excluded from population?	2	Fishermen not working that year
Part of economic survey? (Y/N)	3	N
Reference year?	4	2017
Data collection method (sample survey, census, etc.)	5	Combining Registers
Observation unit	6	Person
Data raised? (Y/N)	7	N
If so, what methodology?	8	Combined Population registers
Stratification in the data collection? (Y/N)	9	N
If so, what stratification? e.g. supraregion and/or major	10	Persons linked to Fishing firms (tax)
fleet segments and/or SSF, DWF, LSF. For aquaculture		
(marine, shellfish, freshwater)?		
Is it possible to report combined responses? (e.g. 54% of	11	Υ
men, skippers, age 50-64 have secondary education)		
If so, what combinations could be reported?	12	Any relevant
When is the data collection taking place (e.g. a particular	13	Monthly, ILO last Wday in November
day/month in the year)?		
Is double-counting avoided (crew working on several	14	Has to be corrected HOW?
vessels over the year). Is information lost on important		
seasonal behaviours of the fleets?		
Fleet social data available by mid-end February 2019?	15	No
If not, when will be available?	16	One week into March
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 / >64)	17	Grouped from date of birth
How can you report gender? (e.g. male, female).	18	Male/ Female /Unknown
How can you report nationality? (e.g. national?, EU, EEA, non-EU/EEA)	19	ISO code
How can you report education?	20	ISCED level / field
How can you report employment status?	21	ISCO status
Are you planning to use unknown categories? What for?	22	N
Are you planning to collect data on: Residence?	23	N
Are you planning to collect data on: Skills Qualification?	24	ILO skill level
Are you planning to collect data on: Job Function?	25	ISCO function
Are you planning to collect data on: Remuneration? (e.g.	26	N
minimum wage, crew share based on, etc.)		
Are you planning to collect data on: Length of service?	27	N
Are you planning to collect other additional indicators?	28	N
Shall these additional indicators be reported?	29	N
Other comments?	30	N

5. Finland

Question \ Country	Q. number	Finland
Population		All enterprises
Excluded from population?	2	
Part of economic survey? (Y/N)		N
Reference year?		2017
Data collection method (sample survey, census, etc.)		Sample / Estimates / ratios (from statistics Finland)
Observation unit		Employee
		Yes
Data raised? (Y/N)		
If so, what methodology?		Raised from Statisticis Finland. Database to DCF data.
Stratification in the data collection? (Y/N)		No
If so, what stratification? e.g. supraregion and/or major	10	Might be possible!
fleet segments and/or SSF, DWF, LSF. For aquaculture		
(marine, shellfish, freshwater)?		
Is it possible to report combined responses? (e.g. 54% of	11	Yes
men, skippers, age 50-64 have secondary education)		
If so, what combinations could be reported?		What is required
When is the data collection taking place (e.g. a particular	13	
day/month in the year)?		
Is double-counting avoided (crew working on several	14	Υ
vessels over the year). Is information lost on important		
seasonal behaviours of the fleets?		
Fleet social data available by mid-end February 2019?	15	Yes for 2017
If not, when will be available?	16	
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 / >64)	17	5 year group
How can you report gender? (e.g. male, female).	18	Υ
How can you report nationality? (e.g. national?, EU, EEA,	19	Υ
non-EU/EEA)		
How can you report education?	20	Υ
How can you report employment status?	21	Υ
Are you planning to use unknown categories? What for?	22	?
Are you planning to collect data on: Residence?	23	Υ
Are you planning to collect data on: Skills Qualification?	24	N
Are you planning to collect data on: Job Function?	25	N
Are you planning to collect data on: Remuneration? (e.g.	26	N
minimum wage, crew share based on, etc.)		
Are you planning to collect data on: Length of service?	27	N
Are you planning to collect other additional indicators?		N
Shall these additional indicators be reported?		N
		12.5

6. Germany

Qu	uestion \ Country	Q. number	Germany
Po	pulation	1	Fisheries and aquaculture
Ex	cluded from population?	2	
Pa	rt of economic survey? (Y/N)	3	N for some segments
Re	ference year?	4	2017
Da	ata collection method (sample survey, census, etc.)	5	Employment agency/ Insurance association
			(administrative data = census for employees), for some
			segments part of fleet economic questionnaire
Ob	oservation unit	6	Enterprise
Da	ata raised? (Y/N)	7	Unkonwn Yes - by crew number from fleet register
If s	so, what methodology?	8	Proportional to crew number (current plan)
Str	ratification in the data collection? (Y/N)	9	? Partly
If s	so, what stratification? e.g. supraregion and/or major	10	Below / above 250 GT (=insurance association data)
fle	eet segments and/or SSF, DWF, LSF. For aquaculture		
(m	narine, shellfish, freshwater)?		
ls i	it possible to report combined responses? (e.g. 54% of	11	No - this information is in most cases not linked; some
me	en, skippers, age 50-64 have secondary education)		data from employment agency have this information,
			but not on desired resolution level
If s	so, what combinations could be reported?	12	
	hen is the data collection taking place (e.g. a particular	13	End of 2018/beginning of 2019
	y/month in the year)?		. 5 5
_	double-counting avoided (crew working on several	14	Yes - data are requested for a certain point in time
ve	ssels over the year). Is information lost on important		·
	asonal behaviours of the fleets?		
Fle	eet social data available by mid-end February 2019?	15	Yes
	Y/N)		
	not, when will be available?	16	
	ow can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	17	As suggested by PGECON
Но	ow can you report gender? (e.g. male, female).	18	Y: ♂ and ♀
Но	ow can you report nationality? (e.g. national?, EU, EEA,		National / Other
no	on-EU/EEA)		
Но	ow can you report education?		No data As suggested by PGECON
	ow can you report employment status?		Full time / Apprentice / Marginal
Ar	e you planning to use unknown categories? What for?	22	No (why should we??)
Ar	e you planning to collect data on: Residence?		No
Ar	e you planning to collect data on: Skills Qualification?	24	No
Ar	e you planning to collect data on: Job Function?	25	Specific functions No additional sampling, only data
			from insurance association (not comprehensive)
Arc Arc mi	e you planning to collect data on: Remuneration? (e.g.	26	No
mi	inimum wage, crew share based on, etc.)		
Ar	e you planning to collect data on: Length of service?	27	No
Ar	e you planning to collect other additional indicators?	28	No
Sh	all these additional indicators be reported?	29	No
Ot	her comments?	30	

7. Greece

Question \ Country	Q. number	Greece (FLEET)	Greece (AQUACULTURE)
Population		Fleet Registry	Active aquaculture units
Excluded from population?		No ,	/non active units
Part of economic survey? (Y/N)		Y	Υ
Reference year?		2017	2017
Data collection method (sample survey, census, etc.)		sample survey	Interview /census with non
, , , , , ,			probability sample survey for certain
			values
Observation unit	6	Vessels	Aquaculture units
Data raised? (Y/N)		Υ	7
If so, what methodology?	8	Same as economics	
,			
Stratification in the data collection? (Y/N)	9	Υ	y
If so, what stratification? e.g. supraregion and/or	10	Same as economics (Fleet segments	Marine, shellfish, freshwater
major fleet segments and/or SSF, DWF, LSF. For		and geographical (GSAs))	
aquaculture (marine, shellfish, freshwater)?			
Is it possible to report combined responses? (e.g. 54%	11	Υ	/yes
of men, skippers, age 50-64 have secondary education)			,
If so, what combinations could be reported?	12	Each combination	/nationaliy-education-gender
When is the data collection taking place (e.g. a	13	Throughtout reference year + 1	/during survey period
particular day/month in the year)?			
Is double-counting avoided (crew working on several	14	No	/yes
vessels over the year). Is information lost on important			
seasonal behaviours of the fleets?			
Fleet social data available by mid-end February 2019?	15	Υ	
[(Y/N)			
If not, when will be available?	16		
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-	17	<15 / 15-24 / 25-39 / 40-64 / >64	<15 / 15-24 / 25-49 / 50-64 / >64
64 / >64)		(following PGECON 2017	
		reccomendations)	
How can you report gender? (e.g. male, female).	18	Male/Female	male, female
How can you report nationality? (e.g. national?, EU,	19	National, EU, EEA, non-EU/EEA	Greece, EU, non-EU
EEA, non-EU/EEA)			
How can you report education?	20	Low/Medium/high (following PGECON	Primary, secondary, technological,
		2017 reccomendations)	university
How can you report employment status?	21	Owner/Employee + kind of	fully employment, partial
Are you planning to use unknown categories? What	22	Y (for age and education)	
for?			
Are you planning to collect data on: Residence?	23		
Are you planning to collect data on: Skills	24	Training (for skipper)	
Qualification?			
Are you planning to collect data on: Job Function?		N	
Are you planning to collect data on: Remuneration?	26	Crew share is optional (for the vessels	
(e.g. minimum wage, crew share based on, etc.)		that use this type of renumeration)	
Are you planning to collect data on: Length of service?	27	N	
Are you planning to collect other additional indicators?	28	Socio-demographics for skipper	
Shall these additional indicators be reported?	29		
Other comments?	30	N	

8. Ireland

Question \ Country	Q. number	Ireland (FLEET)	Ireland (Aquaculture)	Ireland (Processing)
Population	1	Active registered vessels	Active aquaculture	Active processing enterprises
			enterprises	
Excluded from population?	2	Aquaculture vessels excluded	·	
		from fleet population		
Part of economic survey? (Y/N)	3	Yes	Yes	Yes
Reference year?	4	2017	2017	2016
Data collection method (sample survey, census, etc.)	5	Questionnaire to	Questionnaire & census	Questionnaire
		skipper/owners. Census (vessels		
		>10m).		
Observation unit	6	Vessel/Aquaculture enterprise		
Data raised? (Y/N)	7	Yes		
If so, what methodology?	8	Method under development.	Method under	Method under development. Most
		Most likely apply sample	development. Most likely	likely apply sample proportions to total
Stratification in the data collection? (Y/N)	9	No	No	No
If so, what stratification? e.g. supraregion and/or	10	No strata	No strata	No strata
major fleet segments and/or SSF, DWF, LSF. For				
aquaculture (marine, shellfish, freshwater)?				
Is it possible to report combined responses? (e.g. 54%	11	No	No	No
of men, skippers, age 50-64 have secondary education)				
If so, what combinations could be reported?	12			
When is the data collection taking place (e.g. a	13	September-December (survey	December	November/December
particular day/month in the year)?		asks for data for the year)		
Is double-counting avoided (crew working on several	14	Unknown		
vessels over the year). Is information lost on important				
seasonal behaviours of the fleets?				
Fleet social data available by mid-end February 2019?	15	Yes		
[(Y/N)				
If not, when will be available?	16			
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-	17	<15 / 15-24 / 25-49 / 50-64 / >64	<15 / 15-24 / 25-49 / 50-64 /	<15 / 15-24 / 25-49 / 50-64 / >64
64 / >64)			>64	
How can you report gender? (e.g. male, female).	18	M and F	M and F	M and F
How can you report nationality? (e.g. national?, EU,	19	National/EU/EEA/Non-EEA	National/EU/EEA/Non-EEA	National/EU/EEA/Non-EEA
EEA, non-EU/EEA)				
How can you report education?	20	Primary/Secondary/Tertiary/Oth	Primary/Secondary/Tertiary	Primary/Secondary/Tertiary/Other
		er	/Other	
How can you report employment status?		Full / part / casual	Full / part / casual	Full / part / casual
Are you planning to use unknown categories? What	22	No	No	No
for?				
Are you planning to collect data on: Residence?	23	No (only for Skipper)	No	No
Are you planning to collect data on: Skills	24	Level 1-10	Level 1-10	Level 1-10
Are you planning to collect data on: Job Function?	25	No	No	No
Are you planning to collect data on: Remuneration?	26	No	No	No
(e.g. minimum wage, crew share based on, etc.)				
Are you planning to collect data on: Length of service?	27	No	No	No
Are you planning to collect other additional indicators?	28	No	No	No
Shall these additional indicators be reported?	29			
Other comments?	30			

9. Italy

Qu	estion \ Country	Q. number	Italy
Pop	pulation	1	Fishery sector / Processing/Aquaculture
Exc	cluded from population?	2	
Par	t of economic survey? (Y/N)	3	Υ
	ference year?	4	Fishery: 2017. Aquaculture: 2016 . Processing: 2017
Dat	ta collection method (sample survey, census, etc.)	5	Sample survey
	servation unit	6	Fishery: vessel, Aquaculture & Processing: enterprise
Dat	ta raised? (Y/N)	7	Yes
If s	o, what methodology?	8	PPS
Str	atification in the data collection? (Y/N)	9	Υ
If s	o, what stratification? e.g. supraregion and/or major	10	Fishery:LOA, GSA. Aquaculture: Eurostat segments.
fle	et segments and/or SSF, DWF, LSF. For aquaculture		Processing: no strata
(ma	arine, shellfish, freshwater)?		
Is it	t possible to report combined responses? (e.g. 54% of	11	Υ
me	n, skippers, age 50-64 have secondary education)		
If s	o, what combinations could be reported?	12	% by sex, by age, by status, by educational level
W	nen is the data collection taking place (e.g. a particular	13	Fishery: last two months of the n+1 year. Aquaculture: the
day	y/month in the year)?		same period of the economic data collection.
Is d	louble-counting avoided (crew working on several	14	No
ves	ssels over the year). Is information lost on important		
sea	asonal behaviours of the fleets?		
Fle	et social data available by mid-end February 2019?	15	No
If n	ot, when will be available?	16	March 2019
Ho:>64	w can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	17	Y
Ho	w can you report gender? (e.g. male, female).	18	Υ
	w can you report nationality? (e.g. national?, EU, EEA, n-EU/EEA)	19	Y
Ho	w can you report education?	20	Υ
Ho	w can you report employment status?	21	Υ
Are	you planning to use unknown categories? What for?	22	yes: other qualifications/skills non listed
Are	you planning to collect data on: Residence?	23	Υ
Are	you planning to collect data on: Skills Qualification?	24	Υ
Are	e you planning to collect data on: Job Function?	25	No
Are	e you planning to collect data on: Remuneration? (e.g.	26	No
miı	nimum wage, crew share based on, etc.)		
Are	you planning to collect data on: Length of service?	27	No
	e you planning to collect other additional indicators?	28	Yes: Fishery (on land activities strictly related to fishing)
	all these additional indicators be reported?	29	
Oth	ner comments?	30	

10. Latvia

	Question \ Country	Q. number	Latvia
	Population	_	All enterprices
	Excluded from population?	2	No
	Part of economic survey? (Y/N)	3	No
	Reference year?	4	2017
	Data collection method (sample survey, census, etc.)		Census survey (interview by phone and
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		questionnaires)
	Observation unit	6	All persons employed in enterprise
	Data raised? (Y/N)		No
	If so, what methodology?		NA
	Stratification in the data collection? (Y/N)	9	Yes
	If so, what stratification? e.g. supraregion and/or major		Fishing area / Sector
	fleet segments and/or SSF, DWF, LSF. For aquaculture		
	(marine, shellfish, freshwater)?		
	Is it possible to report combined responses? (e.g. 54% of	11	No
	men, skippers, age 50-64 have secondary education)		
	If so, what combinations could be reported?	12	NA
	When is the data collection taking place (e.g. a particular	13	2018
	day/month in the year)?		
	Is double-counting avoided (crew working on several	14	Yes
	vessels over the year). Is information lost on important		
	seasonal behaviours of the fleets?		
	Fleet social data available by mid-end February 2019?	15	Yes
	[(Y/N)		
	If not, when will be available?	16	NA
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	17	<15; 15-24; 25-39; 40-64; >65
2	>64)		
Car	How can you report gender? (e.g. male, female).	18	male/female
LOIVIAL III GICGLOIS	How can you report nationality? (e.g. national?, EU, EEA,	19	national, EU, EEA, non-EU/EEA
-	non-EU/EEA)		
	How can you report education?	20	ISCED 2011 education levels
י נ	How can you report employment status?	21	Full / part / self / retired
	Are you planning to use unknown categories? What for?	22	No
	Are you planning to collect data on: Residence?	23	No
2	Are you planning to collect data on: Skills Qualification?	24	No
200	Are you planning to collect data on: Job Function?	25	No
2	Are you planning to collect data on: Remuneration? (e.g.	26	No
Autrollai marators	minimum wage, crew share based on, etc.)		
5	Are you planning to collect data on: Length of service?		No
	Are you planning to collect other additional indicators?	28	type of contract; term of ocupation in the sector;
•			employement on the seasonal work
	Shall these additional indicators be reported?	29	Yes
	Other comments?	30	NA

11. Lithuania

		Fleet	Fish processing
Question \ Country	Q. number	Lithuania	Lithuania
Population	1	All enterprises with active	All enterprises with fish processing as
		vessels	main activities
Excluded from population?	2	Enterprises which has only	Fish processing with non-main
		inactive vessels	activities
Part of economic survey? (Y/N)	3	Υ	Υ
Reference year?	4	2017	2017
Data collection method (sample survey, census, etc.)	5	Census survey by questionnaires	Census survey by questionnaires
Observation unit	6	Enterprise	Enterprise
Data raised? (Y/N)	7	If needed	If needed
If so, what methodology?	8	Would be based on the collected	Would be based on the collected data
		data by segment and raised to	by segment and raised to the total
		the total population by number	population by number of employees
		of employees of missing vessels	of missing enterprise
Stratification in the data collection? (Y/N)	9	Y	Υ
If so, what stratification? e.g. supraregion and/or major	10	Data collected at company level	Data collected at company level and
fleet segments and/or SSF, DWF, LSF. For aquaculture		and can be stratified at any level	can be stratified at any level
(marine, shellfish, freshwater)?			
Is it possible to report combined responses? (e.g. 54% of	11	Yes	Yes
men, skippers, age 50-64 have secondary education)			
If so, what combinations could be reported?	12	All except employment status	All except employment status and
		and FTE	FTE
When is the data collection taking place (e.g. a particular	13	Number of employees on 2017 12	Number of employees on 2017 12 31
day/month in the year)?		31	
Is double-counting avoided (crew working on several	14	Seasonal behavior is not taken	Seasonal behavior is not taken into
vessels over the year). Is information lost on important		into account. Possible data losses	account. Possible data losses
seasonal behaviours of the fleets?			
Fleet social data available by mid-end February 2019?	15	Υ	Υ
(Y/N)			
If not, when will be available?	16		-
How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	17	<24 / 25-64 / >64 or by average	<24 / 25-64 / >64 or by average age of
>64)		age of segment or other	segment or other reporting unit
		reporting unit	
How can you report gender? (e.g. male, female).		Male, female	Male, female
How can you report nationality? (e.g. national?, EU, EEA,	19	By country and by groups as EU,	By country and by groups as EU, third
non-EU/EEA)		third countries, EEU	countries, EEU
How can you report education?		By ISCED code groups	By ISCED code groups
How can you report employment status?	21	Main/Second (estimated from	Main/Second (estimated from annua
		annual survey). Owner by pilot	survey). Owner by pilot study
		study	
Are you planning to use unknown categories? What for?	22	No	No
Annual and		N	N
Are you planning to collect data on: Residence?		No Vos (qualification ISCO 8 sada)	No
Are you planning to collect data on: Skills Qualification?	24	Yes (qualification ISCO 8 code)	Yes (qualification ISCO 8 code)
Are you planning to collect data on: Job Function?	25	Yes	Vos
Are you planning to collect data on: Job Function? Are you planning to collect data on: Remuneration? (e.g.		No No	Yes No
minimum wage, crew share based on, etc.)	26	INO	INO
Are you planning to collect data on: Length of service?	27	Yes	Vac
Are you planning to collect data on: Length of service? Are you planning to collect other additional indicators?			Yes
		Yes	Yes
Shall these additional indicators be reported?		Yes	Yes
Other comments?	30		

12. Poland

ſ	Question \ Country	Q. number	Poland
	Population		all registered vessels
ľ	Excluded from population?	2	
	Part of economic survey? (Y/N)		Υ
	Reference year?		2017
	Data collection method (sample survey, census, etc.)		Census survey by questionnaires
- 1	Observation unit		vessel
ŀ	Data raised? (Y/N)		Y
ŀ	If so, what methodology?		by segment average and raised to the total population
	,		by number of employees of missing vessels
ı	Stratification in the data collection? (Y/N)	9	N
- 1	If so, what stratification? e.g. supraregion and/or major	10	
	fleet segments and/or SSF, DWF, LSF. For aquaculture		
	(marine, shellfish, freshwater)?		
ŀ	Is it possible to report combined responses? (e.g. 54% of	11	N
	men, skippers, age 50-64 have secondary education)		
- 1	If so, what combinations could be reported?	12	
	When is the data collection taking place (e.g. a particular		end of the year
	day/month in the year)?	13	lend of the year
- 1	Is double-counting avoided (crew working on several	1/1	double counting possible , negligible influence,
	vessels over the year). Is information lost on important	17	seasonal employment is taken into account
	seasonal behaviours of the fleets?		Seasonal employment is taken into account
- 1	Fleet social data available by mid-end February 2019?	15	v
		15	ľ
	(Y/N) f not, when will be available?	16	
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 /	16	15-19
		17	20-24
	>64)		
			25-29
			30-34
			35-39
			40-44
			45-49
.			50-54
:			55-59
:			60-64
			65+
:	How can you report gender? (e.g. male, female).	 	M/F
١ ١	How can you report nationality? (e.g. national?, EU, EEA,	19	EU, EEA, others
	non-EU/EEA)		
	How can you report education?	20	Higher
			Bachelor
			Secondary
			Vocational
			Grammar school
			Primary
ŀ	How can you report employment status?		owner, hired workers, other in season out of season
_	Are you planning to use unknown categories? What for?	22	
	Are you planning to collect data on: Residence?	23	
.	Are you planning to collect data on: Skills Qualification?	24	
١,	Are you planning to collect data on: Job Function?	25	N
		26	N
	Are you planning to collect data on: Remuneration? (e.g.		
	Are you planning to collect data on: Remuneration? (e.g. minimum wage, crew share based on, etc.)		
		27	N
	minimum wage, crew share based on, etc.)		
. 1	minimum wage, crew share based on, etc.) Are you planning to collect data on: Length of service?	27	N

13. Portugal

	Question \ Country	Q. number	Portugal - Fleet	Portugal - Aquaculture
Ī	Population		Crew members registered in the	All enterprises
			Maritime Authority	
Ī	Excluded from population?	2	-	-
Ī	Part of economic survey? (Y/N)	3	N	Υ
ŀ	Reference year?	4	2017	2017
Ī	Data collection method (sample survey, census, etc.)	5	Administrative data	Survey
ı	Observation unit	6	Person	Enterprise
ŀ	Data raised? (Y/N)	7	Υ	Υ
İ	If so, what methodology?	8	Methodology under evaluation	Methodology under evaluation
ŀ	Stratification in the data collection? (Y/N)	9	Y	Υ
Ī	If so, what stratification? e.g. supraregion and/or	10	DCF stratification	DCF stratification
	major fleet segments and/or SSF, DWF, LSF. For			
	aquaculture (marine, shellfish, freshwater)?			
ŀ	Is it possible to report combined responses? (e.g. 54%	11	Υ	N
	of men, skippers, age 50-64 have secondary education)			
- 1	If so, what combinations could be reported?	12	All combinations within the reported	-
			variables, exept for employment	
			status (full time/part time)	
ľ	When is the data collection taking place (e.g. a	13	Along the year	Until 31st May relating to year N-1
	particular day/month in the year)?		5 ,	, , ,
	Is double-counting avoided (crew working on several	14	There may be duplicatios	There may be duplicatios
	vessels over the year). Is information lost on important			
	seasonal behaviours of the fleets?			
Ī	Fleet social data available by mid-end February 2019?	15	Υ	-
	(Y/N)			
	If not, when will be available?	16	-	-
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-	17	<15;15-24;25-39;40-64;>64	<15;15-24;25-39;40-64;>64
	64 / >64)			
	How can you report gender? (e.g. male, female).	18	M; F	M; F
	How can you report nationality? (e.g. national?, EU,	19	N;EU;EEA;NEU/EEA	N;EU;EEA;NEU/EEA
	EEA, non-EU/EEA)			
	How can you report education?	20	Low; Medium; High	Low; Medium; High
	How can you report employment status?	21	- Owner; Employee	- Payed owner; Unpayed owner;
	Are you planning to use unknown categories? What	22	Y. For non responses	Y. For non responses
	for?			
	Are you planning to collect data on: Residence?	23	N	N
	Are you planning to collect data on: Skills	24	N	N
	Are you planning to collect data on: Job Function?	25	N	N
	Are you planning to collect data on: Remuneration?	26	N	N
L	(e.g. minimum wage, crew share based on, etc.)			
	Are you planning to collect data on: Length of service?	27	N	N
	Are you planning to collect other additional indicators?	28	N	N
	Shall these additional indicators be reported?	29	-	N
Ī	Other comments?	30	-	

14. Slovenia

	Question \ Country	Q. number	Slovenia
	Population	1	All vessels / enterprises
	Excluded from population?	2	no
	Part of economic survey? (Y/N)	3	yes
	Reference year?	4	2017
	Data collection method (sample survey, census, etc.)	5	Pilot study 2017. Census
	Observation unit	6	Enterprise
	Data raised? (Y/N)	7	Yes
	If so, what methodology?	8	extrapolation
	Stratification in the data collection? (Y/N)	9	No
	If so, what stratification? e.g. supraregion and/or major	10	
	fleet segments and/or SSF, DWF, LSF. For aquaculture		
	(marine, shellfish, freshwater)?		
	Is it possible to report combined responses? (e.g. 54% of	11	yes
	men, skippers, age 50-64 have secondary education)		
	If so, what combinations could be reported?	12	age/education
	When is the data collection taking place (e.g. a particular	13	usualy in may
	day/month in the year)?		
	Is double-counting avoided (crew working on several	14	yes
	vessels over the year). Is information lost on important		
	seasonal behaviours of the fleets?		
	Fleet social data available by mid-end February 2019?	15	Yes
	If not, when will be available?	16	
SIC	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 / >64)	17	Y
čat	How can you report gender? (e.g. male, female).	18	Υ
EUMAP indicators	How can you report nationality? (e.g. national?, EU, EEA, non-EU/EEA)	19	National / EU / Other
Ž	How can you report education?	20	level 1-4
3	How can you report employment status?	21	Full time / Part time
	Are you planning to use unknown categories? What for?	22	no
	Are you planning to collect data on: Residence?	23	no
Aditional indicators	Are you planning to collect data on: Skills Qualification?	24	no
<u>s</u>	Are you planning to collect data on: Job Function?	25	no
2	Are you planning to collect data on: Remuneration? (e.g.	26	no
na	minimum wage, crew share based on, etc.)		
5	Are you planning to collect data on: Length of service?	27	no
Ad	Are you planning to collect other additional indicators?	28	no
	Shall these additional indicators be reported?	29	
	Other comments?	30	

15. Sweden

1	Question \ Country	Q. number	Sweden - Fleet	Sweden - Aquaculture	Sweden - Processing
	Population		Registered enterprises/vessel	Registered enterprises	All enterprises that have fish processing as their main activity
	Excluded from population?	2	owners. Just a fraction of the total		
		_	population due to external		
			circumstances (e.g. death,		
	Part of economic survey? (Y/N)	3	Yes	Yes	No. (all enterprises are included and data is bsed on official statistics)
ł	Reference year?	4	2017	2016	2016
	Data collection method (sample survey, census, etc.)		Census survey	Questionnaire, census	census
	Observation unit		Vessel	enterprise	enterprise
	Data raised? (Y/N) If so, what methodology?		Yes Regression estimation (OLS or	yes correlated to whole	yes See other comment for detailed information regarding the data process.
	in so, initial methodology.		poisson regression).	population (based on	see other comment of detailed morniadon regarding the data process.
	Stratification in the data collection? (Y/N)		No	No	No.
	If so, what stratification? e.g. supraregion and/or major fleet segments and/or SSF, DWF, LSF. For	10	=	-	
	aquaculture (marine, shellfish, freshwater)?				
İ	Is it possible to report combined responses? (e.g. 54%	11	No, no cross tabulation can be		no
	of men, skippers, age 50-64 have secondary education)		made. Altho, for the next		
			reference year, 2020, changes can be made to implement cross-		
			tabluation. Preferably not		
	If so, what combinations could be reported?	12			
	When is the data collection taking place (e.g. a	13	May, with reminder in	february til april	The data is based on financial accounts from the enterprises. It becomes offical
	particular day/month in the year)?		september and october.		in May (data for 2016 were published in May 2018).
		<u></u>		<u> </u>	
İ	Is double-counting avoided (crew working on several	14	Double-counting is avoided in		
	vessels over the year). Is information lost on important		most cases. Information is not		
ł	seasonal behaviours of the fleets? Fleet social data available by mid-end February 2019?	15	lost on important seasonal Yes		
	[(Y/N)				
_	If not, when will be available?	16		Consider head 11	Ven historia and an analysis of the state of
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50-64 / >64)	17	Sweden has followed the PGECON report from Vilnius	Sweden has followed the PGECON report from	Yes, but we can only report the following ages: 16-24/25-39/40-65/>65.
			2017.	Vilnius 2017.	
İ	How can you report gender? (e.g. male, female).	18	Sweden has followed the	Sweden has followed	Sweden has followed the PGECON report from Vilnius 2017.
			PGECON report from Vilnius 2017.	the PGECON report from Vilnius 2017.	All categories can be reported.
	How can you report nationality? (e.g. national?, EU,	19	Sweden has followed the	Sweden has followed	Sweden has followed the PGECON report from Vilnius 2017.
tors	EEA, non-EU/EEA)		PGECON report from Vilnius		All categories can be reported.
gic			2017.	Vilnius 2017.	
EUMAP indicators	How can you report education?	20	Sweden has followed the PGECON report from Vilnius	Sweden has followed	Sweden has followed the PGECON report from Vilnius 2017. All categories can be reported.
Š			2017.	Vilnius 2017.	All categories can be reported.
۳			Low, medium, high (see PGECON		
	How can you report employment status?	21	report for definition). Sweden has followed the	reported. Sweden has followed	No
	Are you planning to use unknown categories? What		Unknown categories is applied to		no
	for?		all social variables. Although, it is		
			really only useful regarding		
_			education and nationality.	No	no
	Are you planning to collect data on: Residence?	23	No		
	Are you planning to collect data on: Residence? Are you planning to collect data on: Skills		No No	No	no
ors	Are you planning to collect data on: Skills Qualification?	24	No	No	
icators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function?	24 25	No No	No No	no
l indicators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function? Are you planning to collect data on: Remuneration?	24 25	No	No	
ional indicators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function?	24 25 26	No No	No No	no
Aditional indicators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function? Are you planning to collect data on: Remuneration? (e.g. minimum wage, crew share based on, etc.) Are you planning to collect data on: Length of service?	24 25 26 27	No No No	No No No	no no
Aditional indicators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function? Are you planning to collect data on: Remuneration? (e.g. minimum wage, crew share based on, etc.)	24 25 26 27	No No No	No No	no no
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Aditional indicators	Are you planning to collect data on: Skills Qualification? Are you planning to collect data on: Job Function? Are you planning to collect data on: Remuneration? (e.g. minimum wage, crew share based on, etc.) Are you planning to collect data on: Length of service? Are you planning to collect other additional indicators? Shall these additional indicators be reported?	24 25 26 27 28	No No No No	No No No No -	no no All data is collected, estimated and checked by Statistics Sweden which ensures the consistency of the final data. The data quality evaluation is carried out by Statistics Weden before delivering it to the Board of Agriculture, who conducts a macro evaluation upon delivery to ensure no abnormal or implausible changes have occurred by comparing the new data with previous years. Sampled data is reviewed on a micro level by Statistics Sweden regarding summations, plausibility and relationships between variables. Outliers that may have a large effect on the estimation are checked and evaluated. Census data from the Swedish Tax Agency and the Statistical Business Register is evaluated by Statistics Sweden although not to such a large extent as sample data. The evaluation of census data mostly consists of reviewing suspiciously extreme values that may be small or large. After reviewing the data on a micro level the data is processed to correct for non-responses. After merging the census and sample data the aggregate is checked and evaluated at a macro level. In the last step no difference is made between sample and census data. For variables, such as subsidies and energy costs, collected through the probability sample survey CV values are estimated to display the uncertainties due to sampling. A possible shortfall is that although data is collected, processed and ensured by Statistics Sweden, some variables are not available through financial accounts. The variables affected by this possible shortfall are subsidies and energy costs. The reason for this is that those variables were solely collected through the rough linancial accounts it is also difficult to control if they are correct. There are some shortfalls when it comes to subsidies, but it is not a good solution to obtain subsidies from the

16. United Kingdom

		Q. number	United Kingdom - Fleet	United Kingdom - Aquaculture	United Kingdom - Processing		
	Population		Workers linked to UK registered	All salmon farming enterprises in	UK seafood processing sites and their		
			commercial fishing vessels (paid or	Scotland (+ enterprises producing 90% of	employees.		
	Excluded from population?	2	unpaid) None	Scottish mussel and trout production).	Processing sites that derive less than 50%		
					of their turnover from fish processing		
	Part of economic survey? (Y/N) Reference year?		Y	No. Separate pilot survey for social data, although some overlap with established economic survey. Questionnaire prepopulated with previously supplied data	2018		
			2018	where relevant. 2016 data requested, with option for alternative year if more readily available			
	Data collection method (sample survey, census, etc.)	5	Sample survey of owners and/or skippers	Sample survey - postal questionnaire to enterprise headquarters	Census		
	Observation unit	6	Crew members list on board	Enterprise	Site		
	Data raised? (Y/N)	7	Not planning to	N. (but may be raised if responses considered of sufficient quality and quantity)	Y		
	If so, what methodology?	8	Not agreed yet	To be decided if relevant; likely to be simple, e.g. number of employees in	Based on type of product produced (pelagic industry separated), regions and N, but census allows to stratify by company size		
	Stratification in the data collection? (Y/N)		Y	No.			
	If so, what stratification? e.g. supraregion and/or	10	UK region and fleet segment	NA	Stratification of results is possible as the		
	major fleet segments and/or SSF, DWF, LSF. For aquaculture (marine, shellfish, freshwater)?		stratification using Seafish fleet segments defined for economic survey		data collected at company level		
	Is it possible to report combined responses? (e.g. 54% of men, skippers, age 50-64 have secondary education)	11	Yes, though some fields like academic qualification got a significant number of "unknown/prefer not to say" responses in the pilot and survey in 2018	No- each variable being collected at enterprise level, not individual employee level	Y		
	If so, what combinations could be reported?	12	Any combination of age/professional qualification/work pattern/employee type/job position as long as we don't reach confidentiality threshold	NA	Gender and contract type (full time, part time, seasonal) only		
	When is the data collection taking place (e.g. a particular day/month in the year)?	13	Summer months (July/August/September)	Nov-Dec 2018	November		
	Is double-counting avoided (crew working on several vessels over the year). Is information lost on important seasonal behaviours of the fleets?	14	Can have a small amount (not significant) of double counting if people work on more than one vessel at the time (crew names are not collected to cross-check). 2018 survey asked respondents for their peak/low season of fishing and their max/min number of crew.	Vast majority of salmon farming employees are full-time, so double- counting unlikely to be an issue.	Y (request employment data as of the date of survey). Census asks for number of seasonal workers and months of peak activity.		
	Fleet social data available by mid-end February 2019? (Y/N)	15	No	Yes- if response rate and timeliness is acceptable, and effort not diverted towards EU-exit.	N		
	If not, when will be available?	16	By mid-end of March (depends on te workload and changes in the economic data call)	April-May 2019, if EU-exit requires diversion of manpower.	April?		
	How can you report age? (e.g. <15 / 15-24 / 25-49 / 50- 64 / >64)	17	Can create any groups as we collect age of individual fishers. Unknown needed.	As per PGECON Report 15-19 May 2017, Vilnius, Lithuania - 5 categories: < 15, 16- 24, 25-39, 40-64, 65+	Y, <15/15-24/25-39/40-65/>65/unknown		
	How can you report gender? (e.g. male, female).	18	Male/female/other/unknown	As per PGECON Report 15-19 May 2017, Vilnius, Lithuania - 3 categories: Male, Female, Other / Prefer not to say / Unknown	Male/female/unknown		
21	How can you report nationality? (e.g. national?, EU, EEA, non-EU/EEA)	19	Nation/EU-EEA/non-EEA/unknown	As per PGECON Report 15-19 May 2017, Vilnius, Lithuania- 4 categories: UK, EU, EEA, Other	Nat/EU+EEA/non EU-EEA		
EUMAP ind	How can you report education?		Primary/lower secondary/upper secondary/pots-secondary non- terciary/terciary/Bachelors/Masters/Doct or/Unknown	As per PGECON Report 15-19 May 2017, Vilnius, Lithuania- 3 categories: Low education" levels 0-2 (ISCED2011 and ISCED1997); "Medium education: levels 3-4 (ISCED2011 and ISCED1997); "High education" levels 5-6 (ISCED2011), levels 5-6 (ISCED1997).	No data		
	How can you report employment status? Are you planning to use unknown categories? What for?		Full time / Part time Yes, for all categories there is an "unknown" and "prefer not to say" option in the survey.	As per PGECON Report 15-19 May 2017, Employment by gender	Direct and agency employees or fill Yes		
	Are you planning to collect data on: Residence?		Y (responses vary on detail level: town/city/region/country)	No	No data		
	Are you planning to collect data on: Skills		Y (None, Basic Safety Training, Engineer	No- although pilot survey questionnaire	Job related qualification		
al indicato	Are you planning to collect data on: Job Function?	25	Y (owner, skipper, engineer, deckhand, cook, other crew, onshore - accounts and admin, other onshore)	No	IN .		
	Are you planning to collect data on: Remuneration? (e.g. minimum wage, crew share based on, etc.)	26	Y (crew share/salary/agency, monthly remuneration)	No	N		
Aditio	Are you planning to collect data on: Length of service?	27	Y (length on service on current vessel and length on service in industry)	No	N		
	Are you planning to collect other additional indicators?	28	Y (Recruitment method, other jobs, plan be crewing in one year, average salary)	No	N		
	Shall these additional indicators be reported?	29	No	No	N		
	Other comments?		We have an issue with estimation to the total and feel it might be better to report sample resalts rather than estimate to total population. Some indicators are not	Pilot survey being conducted to assess whether social data can be gathered via postal questionnaire approach to enterprise HQ.			
			clearly linked to the fleet segments.	- Indiana indiana			

Annex 4. EU MAP Economic variables

The revised and updated Guidance Document will be made available on the DCF/JRC website at: https://datacollection.jrc.ec.europa.eu/data-calls

Annex 5. EU MAP Social variables

According to Table 6 of the Commission implementing decision (EU) 2016/1251, the following social data shall be collected every three years starting from 2018.

Table 6. Social variables for the fishing and aquaculture sectors

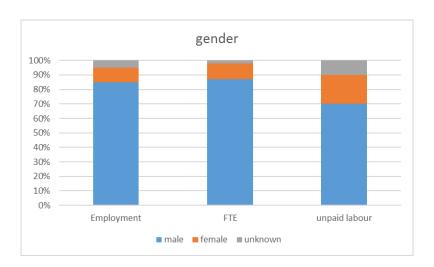
Variable	Unit
Employment by gender	Number
FTE by gender	Number
Unpaid labour by gender	Number
Employment by age	Number
Employment by education level	Number per education level
Employment by nationality	Number from national, EU, EEA and Non-EU/EEA
Employment by employment status	Number
FTE National	Number

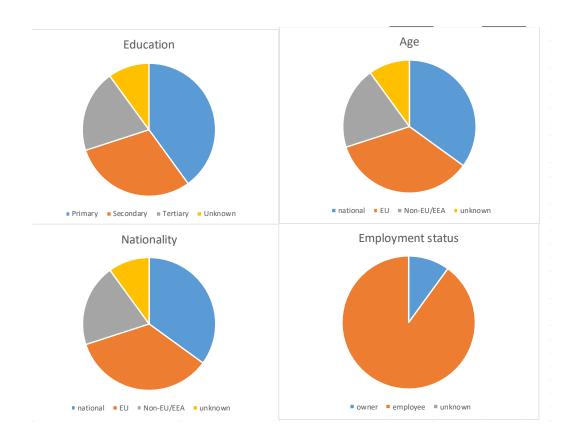
Further detail on the EU-MAP social variables will be made available on the Data Collection website at: https://datacollection.jrc.ec.europa.eu/data-calls

Annex 6. National chapter & Potential EU overview chapter

1. Social structure of the fishers' population

(BASIC)





(COMBINED !?)

- Unpaid labour by gender?
- Employment status by age?

2. Stratification / Segmentation (e.g. SSF/ LSF, main segments: same as basic?)

3. Trends and triggers

• Average national salary?

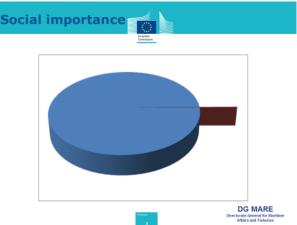
4. Data issues

Annex 7. Draft template for the requested social data

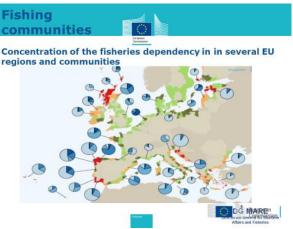
ACRONYM VARIABLE	VALUE	UNIT	YEAR	SUPRA_REGION	FISHING_TECH	VESSEL_LENGTH	GEO_INDICATOR	FISHER	GENDER	AGE	EDUCATION	NATIONALITY	EMPLOYMENT_STATUS	POPULATION_VES	RESPONSES_VES	POPULATION_FISH	RESPONSES_FISH	SAMPLING_STRATEGY	COMMENT
socfte	#	Number	2017	AREA27	DFN, DTS, etc.	VL0010, etc.		SSF	Male	<15	Low	National	Owner	#	#	#	#		
socunlab				AREA37	[blank]	[blank]	[blank]	LSF	Female	15-24	Medium	EU	Employee						
socemploy				OFR				DWF	Unkown	25-39	High	EEA	Employee Full						
				[blank]				[blank]	[blank]	40-64	Unkown	non-EU/EEA	Employee Part						
										>64	[blank]	Unkown	Unkown						
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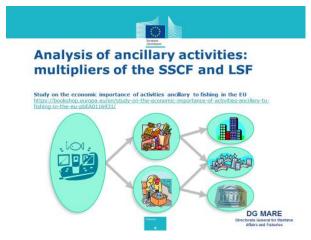
Annex 8. End user reviews on social data: DG MARE policy uses and needs















Article 5

Objectives

The EMFF shall contribute to the achievement of the following objectives:

- (a) promoting competitive, environmentally sustainable, economically viable and **socially responsible fisheries and aquaculture**;
- (c) promoting a balanced and inclusive territorial development of fisheries and aquaculture areas;

Increasing employment and territorial cohesion by pursuing the following specific objective: the promotion of economic growth, social inclusion and job creation, and providing support to employability and labour mobility in coastal and inland communities which depend on fishing and aquaculture, including the diversification of activities within fisheries and into other sectors of maritime economy.



EMFF: structural



Article 29

Promotion of human capital, job creation and social dialogue

- In order to promote human capital, job creation and social dialogue, the EMFF may support:
 - professional training, lifelong learning, joint projects, the dissemination of knowledge of an economic, technical, regulatory or scientific nature and of innovative practices, and the acquisition of new professional skills

Article 31

Start-up support for young fishermen

1. The EMFF may provide business start-up support to young fishermen Article 63

Implementation of community-led local development strategies

Support for the implementation of community-led local development strategies may be granted for the following objectives:

 DG MARE





Article 22

Adjustment and management of fishing capacity

Member States shall send to the Commission, by 31 May each year, a report on the balance between the fishing capacity of their fleets and their fishing opportunities. To facilitate a common approach across the Union, that report shall be prepared in accordance with common guidelines which may be developed by the Commission indicating the relevant technical, social and economic parameters.

Article 34

Promoting sustainable aquaculture

indicators for environmental, economic and social sustainability



DG MARE
Directorate-General for Maritime
Affairs and Fisheries

DG MARE



Article 9

...Before measures are included in the **multiannual plans**, account shall be taken of their likely economic and **social impact**.

Article 17

Criteria for the allocation of fishing opportunities by Member States

When allocating the fishing opportunities available to them, Member States shall use transparent and objective criteria including those of an environmental, **social** and economic nature.

Article 26

Consulting scientific bodies

The Commission shall consult appropriate scientific bodies. STECF shall be consulted, where appropriate, on matters pertaining to the conservation and management of living marine resources, including biological, economic, environmental, social and technical DG MARE considerations.



Proposal for 2019



Data call: economic + social variables

Timing: to be launched 1 week early, BUT

- 1) Extended deadline for social
- 2) No recreational catches

Dedicated WG at STECF



DG MARE
Directorate-General for Maritime
Affairs and Fisheries

Annex 9. End user reviews: SECFISH presentation

secfish

secfish

SECFISH: Social Data and End User Needs

(An end user review)

PGECON, Athens Greece, 21-22 November 2018 Arina Motova Alyne Delaney

Background

secfish

- Social Dimension
 – since "The CFP aims to ensure that fishing and aquaculture are
 environmentally, economically and socially sustainable and that they provide a source of healthy food for EU citizens'
- Social importance of fisheries in some ways outweighs the economic importance (EC, in terms of relative importance to peripheral regions and communities)
- The social impacts of policy proposals (CFP's move to MSY) are understood, so:
 - The European Maritime and Fisheries Fund (EMFF) funds can be targeted to mitigate negative
 effects. A range of support measures are permitted under Article 29 of the EMFF Regulation
 (IEU) No 508/2014) which deal with "Promotion of human capital, job creation and social
 - (EC) NO 300/2014) which losed with Promotion on human capitals, job creation and sour dialogue.*

 A Commission Decision adopted a multiannual Union programme for the collection, management and use of data in the fisheries and aquaculture sectors for 2017-2019 Nr. C(2016) 4329.
 - For this, social data shall be collected by MS every three years beginning in 2018.

Social indicators and data gets us to requirements for the social side of things

• Size and demographic characteristics of fishery work force and community

Could also get to:

- Cultural norms, beliefs and values of fishermen, other stakeholders and communities
- · Social structures and organizations related to fisheries,
- Non-economic aspects of the proposed action
- · Historical participation in and dependence on the fishery by stakeholders and communities

Social Data-what's the difference?



• the difference between economic, social, and other data

Economic and social data in FUMAP context refers to employment and sector activity, while in the wider context and in a lot of social studies it refers to wider society, regional characteristics and communities and describe wider social context of the fishing regions;

EUMAP social indicators are connected to economic indicators through employees, which are part of economic activity.

Indicators-Individual vs Community



- Demographics: Knowledge of the number, sex, and age
- Enables the production of gender statistics that are often required under the policy of equal opportunities between men and women.
- Fishers' age is an important indicator because depending on the age of the fishermen targeted actions can be taken: early retirement, training, or re-training. The evolution of the average age of fishermen is an indicator of the attractiveness of the sector that does not boil down to the question of profitability.
- The nationality of the fishermen working on board EU fishing vessels is an important The nationality of the fishermen working on board EU fishing vessels is an important information and this for multiple reasons.

 First to see if they have the same social rights as domestic fishermen (mode of remuneration, health, pension, holidays, accidents, unemployment, etc..)

 - pension, nolidays, accidents, unemposity etc...) And then to identify fleets that use this type of labor. This may reflect a difficulty in recruiting local manpower (lack of attractiveness of the sector or lack of appropriate training). In other cases it is an economical choice of the control to the contr

Indicators- Individual vs Community (2)



- Educational level, vocational and training opportunities throughout life, both skippers (shipowners board where fishing captain employees) and fishermen (sailors) are two elements that we need to know prior to the implementation of management measures that will impact recruitment levels and qualification
- It is therefore important to identify prior achievements and gaps or needs of this population point of view both in school training.
- It is also an important dimension in relation to employability when fishing management measures lead to reduced employment opportunities for fishing. This is to allow the population to join the labor market or to create other activities related or not with the fishing industry. Access to training does not only mean the practice of fishing trades.

Indicators-Individual vs Community Policies or measures in fisheries management may also have a social impact at the community level. This impact depends on the level of community dependence on fishing activity Indicators at Community level—e.g., re: dependence

Current EUMAP Variables

secfish

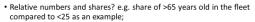
- · Gender: male, female, unknown
- · Employment by nationality: National, EU, EEA, Other (non-
- Employment by age: <15, 15-24, 25-39, 40-64, 65+
- Employment by employment status: Owner/employer, employee (all, excluding owner); or, Self-employed with employees, Self-employed without employees, Employee, Family worker
- · Employment by educational level: Low, Medium, High

secfish

Analyse Data- with the intention to answer the "what has/will/could change(d)" question

- Analyse e.g. average age, or age groups in terms of threats to the industry, e.g., aging fishing population;
 Employment by nationality in terms of dependency on labor force coming from third countries/other EU countries. Does it show that local communities are not interested in working on board/in the sector?
- Education is there a lack of professional training for the industry?
- Employment by status numbers could also show how vulnerable are seafood sectors employees in terms of social guarantees (a high percentage of self- employed (contract-type) would indicate social vulnerability?)
- Time trend analyses will reveal a bit more information in terms of time trends and possible issues.

How can social data be analyzed --- differences sectish between different contexts?



share of employees coming from third/other EU countries compared to locals (trend would show perception of local communities towards type of job compared to other possibilities on the labor market?);

Why do we need the data?

secfish

- Impact assessments (IA)- IAs examine whether there is a need for EU action and analyse the possible impacts of available solutions. They provide evidence to inform and support the decision-making process $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2$
- Social Impact Assessment is a key activity which requires social data. Social impact assessment (SIA) is typically defined as including "the Gata. Social impact assessment (siA) is typically defined as including the processes of analysing, monitoring and managing the intended and unintended social consequences, both positive and negative, of planned interventions ... and of any social change processes invoked by those interventions. Its primary purpose is to bring about a more sustainable and equitable biophysical and human environment" (Vanclay, 2003: p.6).

 - With Social and cultural systems are sensitive to change
 Small changes can have large cumulative impacts on fishery participants
 - Social impacts can occur the moment there is speculation or rumour that something will change

Why do we need the data? (2)



- Integrated Assessments of public policies
 - Because fishing is not only subject to the policies of resource management or procurement policies of seafood; it is also involved in all cross-sectoral policies related to social issues.
- Social Assessment (DG Employment, Social Affairs, and Inclusion)
 - The horizontal social clause of the Lisbon Treaty reaffirms the importance of the social dimension of European integration as a condition of economic convergence and social progress

Thank you!



Comments and Questions

Annex 10. Greece case study: fleet

Social Variables analysis of Fisheries sector: The case of Greece

PGECON workshop on Social and new economic variables

Population - Segmentation

- ❖ Unit → Vessel
- ❖ Population → Fleet Registry
- Same data collection scheme with economics
 - stratified random sampling (métier, GSA)
- Under the questionnaire for the collection of Economic variables, we have a specific section about the social variables

Data collection

- ❖ Face to face interviews (Reference year: n-1)
- ❖ Data collectors
- Training on how to interview fishermen
- Information on policy issues (e.g. policy measures)

Indicative Social Variables collected under pilot study (Reference year 2016)

- Paid crew per vessel & by gender
- Unpaid crew per vessel & by gender
- Working hours of paid crew per vessel & by gender
- Working hours of unpaid crew per vessel & by gender
- Gender (skipper & crew members)
- Age (skipper & crew members)
- Nationality (skipper & crew members)
- Education level (skipper & crew members)
 Employment status (skipper & crew members)
 Employment type (skipper & crew members)
 Education level of children (skipper)
- ❖ % of working hours spent on shore (skipper & crew members)
 ❖ Kind of activities on shore (skipper & crew
- members)
- Kind of parallel employment
- (skipper)

 Membership on association (skipper)
- Marital status (skipper)
- Family members that are employed in fisheries (skipper)
- (skipper)
- Family size (skipper) Age of children (skipper)

Social variables analysis framework

Social variables were analyzed at: 1)Small-scale level, 2)Large-scale level and 3)Total fishing fleet level

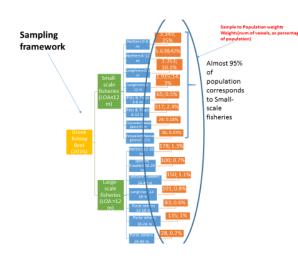
- Employment by gender
- % % of working hours spent on shore
- ❖ FTE by gender
- Unpaid labour by gender
- Employment by age (& by position)

Employment by education level (& by position)

- Employment by nationality (EU, EEA and Non-EU/EEA)
- Employment by employment status
- FTE National (aggregated)

Methodology-Social variables estimation

- First step: Estimation of the social variable at fleet segment level* using sample observations
- Second step: Obtained variable at sample level is multiplied with the sample to population weight that stands for each fleet segment
- Third step: Sum of Weights variable of fleet segments in order to estimate the variable at population level
- * After Work plan amendment, geographical stratification will also take place (per GSA)



Methodology-Social variables estimation(example)

- 1)Employment by gender_g of fleet segment_k(sample distribution) =80%(Males)+20%(Females)
- 2) Employment by $gender_g$ of fleet segment $_k$ (weighted distribution) =80% (Males) * $Weight_k$ +20% (Females) * $Weight_k$
- 3) Employment by $gender_g$ (population distribution) = $\sum_{k=1}^{K} Weighted Distribution of Employment by <math>gender_g$ of fleet segment_k

Methodology-Special estimations (Unpaid labour by gender, FTE by gender & FTE National)

1) Unpaid labour by gender, & fleet segment, (sample distribution) -

2) Unpaid labour by gender_g & fleet segment_k (weighted distribution) =

Unpaid labour by $gender_{\theta}$ & fleet $segment_k$ (sample distribution) * Weight_k (percentage of fleet segment at population)

3) Unpaid labour by gender, (population)=

 $\sum_{k=1}^{K} Weighted \ Distribution \ of \ Unpaid \ labour \ by \ gender_g \ of \ fleet \ segment_k$

 $\textbf{1)} \ Working \ hours \ average \ by \ gender_g \& \ fleet \ segment_k \ (sample) =$

$$\frac{\sum_{n=1}^{N} Average \ working \ hours \ per \ vessel}{\sum_{n=1}^{N} Vessel} (1)$$

 $\textbf{2) Different crew members average by gender}_g \& \textit{fleet segment}_k(\textit{sample}) =$

$$\frac{\sum_{n=1}^{N} Different\ crew\ members\ per\ vessel\ _{n,g,k}}{\sum_{n=1}^{N} Vessel_{n,k}} \ (2)$$

3) If the Relation (1) \geq 2000 working hours the Average FTE by $gender_g \& fleet segment_k$ = Relation(2).

Else Average FTE by $gender_g \& fleet \ segment_k = (Relation(1)/2000) * Relation(2)$

4) FTE by $gender_g$ & fleet $segment_k$ (population) = Average FTE by $gender_g$ & fleet $segment_k$ *Weight_k(number of fleet segment vessels at population)

- 5) FTE by $gender_g$ (population) = $\sum_{k=1}^{K}$ FTE by $gender_g$ & fleet $segment_k$
- 6) FTE National(population)= $\sum_{g=1}^{G}$ FTE by $gender_g$

◆FTE National (estimation based on FTE by gender) FTE National A realistic example A

The working hours of vessel crew correspond to 4.300 and the number of different crew members corresponds to 2 persons then the working hours average per crew member is equal to 2.150 working hours.

- Since 2.150 working hours > 2000 working hours then FTEs of vessel = Number of different crew members (2 FTEs)
- B) If the 4300 working hours correspond to 2500 hours from one man and 1.800 from one woman, then:

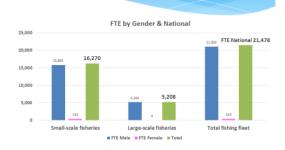
FTEs of vessel= 1 FTE Male + 0.9 FTE Female=1.9 FTEs

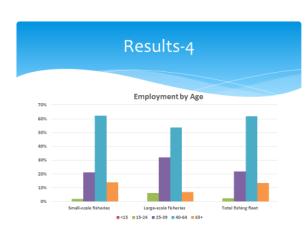


Results-2

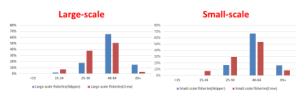


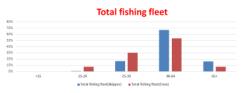
Results-3

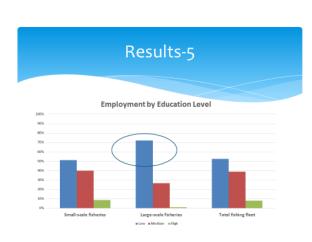


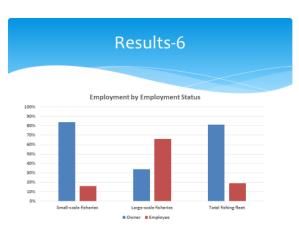


Employment by age and position

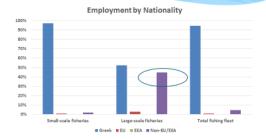




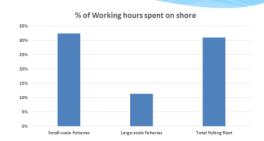




Results-7



Results-8



Activities on shore

- ❖ Clearing Nets
- Preparing gears for fishing Activity (e.g. baits)
- ❖ Cleaning vessel
- ❖ Minor repairs in vessel
- Transport fisheries to the fish market

Some Conclusions-1

- ❖ Males work force holds the lion's share in both SSF and LSF
- Males unpaid labour of Large scale fisheries is considerably lower indicating its business oriented character.
- ❖LSF (5% of vessels) contribute to 25% of FTE
- In LSF, the higher percentage of Crew members for the "young" age classes (15-24,25-39) indicates the intensive working conditions.

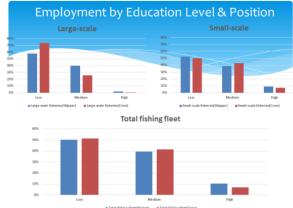
Some Conclusions-2

- ↑↑ % of Skippers for the "old" age classes (40-64,65+) indicates the required long-term experience of this position
- ♦↑↑% of "Low" education level in LSF is explained by the ↑↑% of employees from Non EU/EEA countries
 - There is a need for intensive and low cost labour that can not covered by the structure of the domestic labour market.
- ❖84% of SSF work force corresponds to owners, partially explaining ↑↑ % of unpaid labour.
- Social variables analysis at fishing gear level can provide additional useful information for more effective policy design

Fishing gears segmentation by adopted business model (ref. year 2016)







Annex 11. Lithuania case study: Fish processing sector

State enterprise Agricultural Information and Rural Business Center (AIRBC) Pilot study on the employment by education level and by nationality in the Fisheries and Fish processing industry 2018 Lithuania Edvardas Kazlauskas Andrius Linauskas

Data collection methodology

Social data collection survey for Fishing fleet and Fish processing industry

Population:

- Fishing fleet, enterprises with active vessels in 2017
- Fish processing industry, all the companies in the register of animal food handling entities holding veterinary approval number from Lithuanian State Food and Veterinary Service (SFVS).

Timing:

 Social data of employees in both industries were collected at fixed time - 31 of December 2017

Data collection methodology

Disaggregation level in Fisheries:

Fishing fleet

- Small scale coastal fleet, Large scale Baltic sea fleet, Long distance fleet.
- Possible by fleet segment. In the case when vessels of one enterprise belongs to different segments, disaggregation based on the number of employees is needed.
- Separately employees on shore, vessel deck employees and vessel deck service employees.
- · Disaggregation at the level of qualification (ISCO 08 codes) is available.

Data collection methodology

Disaggregation level in Fisheries:

Fish processing industry

- · Data is available at DCF segment level based on number of employees.
- Separately employees in administration, qualified workers and auxiliary staff
- Disaggregation at the level of qualification (ISCO codes) is available.

Data collection methodology

Questionnaire

Questionnaire is developed that all social data and additional information is provided in one line for each employee. It allows broad variation of combinations with collected social data. For example, education for each gender and nationality of particular position by ISCO qualification codes and etc.

Data collection methodology

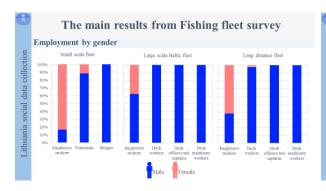
Achievements and data quality

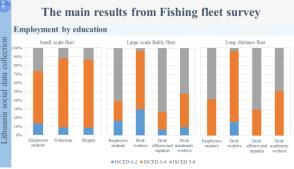
Sector	Response rate %	Coverage rate in terms of production value %
Fishing fleet total	82	95.8
	80	96.0
	92	93.8
	80	96.3
Fish processing industry	91	83
0-10 employees	88	95
	100	100
	91	90
	83	81

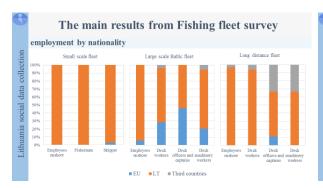
Data collection methodology

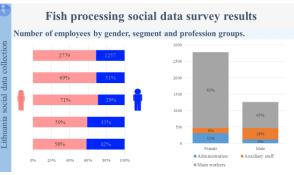
Achievements and data quality

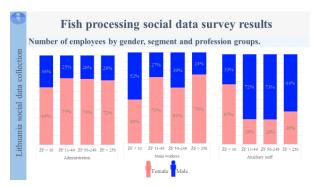
- For the social variables as Employment by gender, FTE by gender, Unpaid labor by gender, Employment by age groups (from PGECON 2017), Employment by employment status, National FTE is collected by annual (for fisheries) and semi-annual (for fish processing) census surveys and response rate is 100%.
- However, variables as Employment by nationality and Employment by education was collected by pilot study together with already available social indicators to get a linkage and calculate correlation among different social parameters.

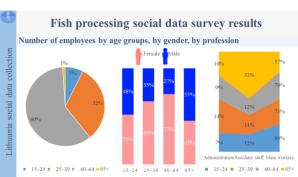


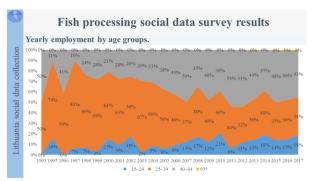




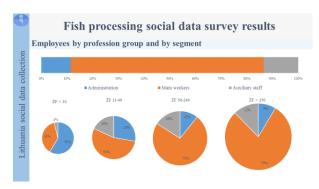


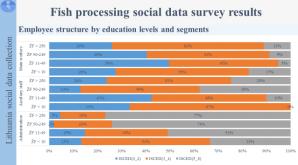


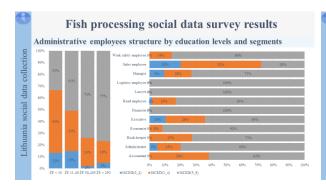


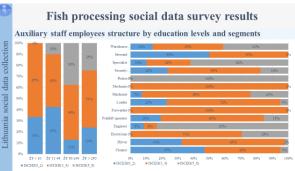


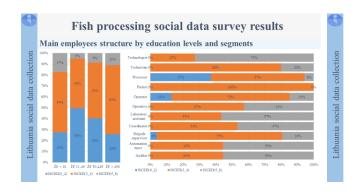












Thank You for Your attention

Annex 12. Guidance Document

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
	Gross value of landings	Value of landings sold during the year	Control data (logbooks and sales notes) should be used where available and reliable; otherwise, sample surveys can be used.	1. Obtained directly from survey 2. Derived from administrative sources or other surveyed variables. The data source is the official national statistics on landings
INCOME	Income from leasing out quota or other fishing rights	Totals invoiced during the reference period for leasing out quota or other fishing rights assigned to the related vessel and supplied to third parties	Two methods can be used	1. Obtained directly from survey 2. Derived from other surveyed variables In case the trade (lease) information in terms of fishing rights is available from official sources, this information together with the

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				average lease price can be used to calculate the variable. The average lease price would be collected through the survey.
	Other income	Totals invoiced during the reference period, corresponding to vessel activities other than fishing supplied to third parties. Insurance payment for damage/loss of gear/vessel should be included	Extraordinary and financial income should be excluded .	1. Obtained directly from survey
LABOUR COSTS	Personnel costs	Total remuneration, in cash or in kind, payable by an employer to an employee (regular and temporary employees as well as homeworkers) in return for work done by the latter during the reference period. Personnel costs also include taxes and employees' social security contributions retained by the unit as well as the employer's compulsory and voluntary social contributions. People working only onshore and paid from vessels should be included if their activity has a direct link with the fishing operations. Employment on shore should include those activities, which directly related to small-scale	MS should take into account how crew share is defined in the fishery, in case crew share based calculations are used.	1. Obtained directly from survey 2. Derived from other surveyed variables In several fisheries, crewmembers are remunerated through share systems rather than having a fixed salary. In this case, personnel costs can be calculated

their family members, but not entirely related to other economic sectors and specialties. or as a % of revenues minus costs.	VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
to other economic sectors and specialties. To correctly app this method, it is necessary to define, for each fleet segment: • what is the approach used to calculate the share: as percentage on total revenues of as percentage on total revenues of the costs actually included to calculate the share the share that are the costs actually included to calculate the share the share the costs actually included to calculate the share the costs actually included to calculate the share the share the costs actually included to calculate the share the			The state of the s		as a % of revenue,
costs. To correctly app this method, it is necessary to define, for each fleet segment: • what is the approach used is calculate the share: as percentage on total revenues of as percentage or revenues—cost • what are the costs actually included to calculate the share the costs actually included to calculate the share the percentage that goes to the crevenues to the crevenues of the crevenues					or as a % of
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			Imputed value of uppaid labour	The estimation of the imputed value of	
		Value of uppaid	The state of the s	· ·	other surveyed
labour services but is unremunerated (OECD Glossary during the WS on calculating capital variables		•	· ·	· ·	
of statistical terms). value using PIM and definition of DCF 2. FTE method		iaboui	·	,	

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
		People working only on shore should be included only if their work is directly related to fishing activity.	variables (Napoli, 13 -17 June 2011). Taking into account difficulties encountered by MS in estimating this variable (recognized by SGECA 10-03 and STECF EWG 11-03), a specific ToR was added to clarify definitions and best practices for MS. The group agreed that the variable "imputed value of unpaid labour" should include the labour costs of all persons delivering unpaid labour. On the basis of the results of this workshop and comparing different experiences by MSs (as reported in NPs and ARs), it was suggested that the Value of unpaid labour can be estimated using the FTE method (method no.2)	(based on WS Naples, 2011), that includes the following steps: • estimation of paid and unpaid FTE; • definition of an average remuneration per paid FTE (e.g. average wage by fleet segment/company, national average wage, minimum national wage, etc); • calculation of imputed value of unpaid labour = unpaid FTE * (average remuneration per paid FTE).

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
ENERGY COSTS	Energy costs	Purchases of all energy products during the reference period should be included in this variable only if they are purchased to be used as fuel. Energy products purchased as a raw material or for resale without transformation should be excluded. Energy costs should be supplied as net costs, i.e. reduced by tax refunds	Note: as in the DCF, excluding lubrication oil.	1. Obtained directly from survey 2. Derived from other surveyed variables Fuel cost could be calculated by multiplying the fuel consumption by the average fuel price, if fuel consumption is available
REPAIR AND MAINTENANCE COSTS	Repair and maintenance costs	The regular maintenance and repair of fixed assets used in production (items not treated as gross capital formation). Should refer only to vessel incl. equipment		1. Obtained directly from survey
OTHER OPERATING COSTS	Other variable costs	All purchased inputs (goods and services) related to fishing effort and/or catch/landings excluding energy costs, personnel costs, repair and maintenance costs.	Change variable name to "Other variable costs" to distinguish from other discriminated variable costs, such as energy, repair and maintenance, personnel costs, etc.	1. Obtained directly from survey

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
	Other non- variable costs	Includes purchased inputs not related to the level of effort and/or catch/landings (including leased equipment).	Change variable name to "Other non-variable costs" to distinguish from other discriminated fixed costs	1. Obtained directly from survey
	Lease/rental payments for quota or other fishing rights	Total purchases of "Lease/rental payments for quota or other fishing rights"		1. Obtained directly from survey 2. Derived from other surveyed variables In case the trade (lease) information in terms of fishing rights is available from official sources, this information together with the average lease price can be used to calculate the variable. The average lease price would be collected through the survey.

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
SUBSIDIES	Operating subsidies	Direct payments which general government or the institutions of the European Union make to resident producers. (ESA D.3). Refers to direct payments/transfers related to the vessel activity, except for: - Fuel tax refunds - Subsidies for permanent cessation of fishing activities - Investment subsidies (fleet modernization)	Administrative sources, if available, tend to be more precise and therefore are preferable. Corresponds to the DCF homologous variable Direct subsidies	1. Obtained directly from survey 2. Obtained from administrative sources (e.g. paying Agency, Local authority). The compilation of data on subsidies is based on official lists provided by national and regional administrations. These lists should be further elaborated to consider only payments that can be classified as operating subsidies (see definition). Each payment should be associated to one vessel. This link

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				allows to report operating subsidies in fleet segments.
	Subsidies on investments (NEW)	Direct payments which general governments or the institutions of the European Union make to resident producers to finance all or part of the costs of their acquiring assets related to the vessel.	Administrative sources, if available, are more precise and therefore are preferable. Investment subsidies refer to permanent cessation or to fleet modernization. They should not be included in income (PGECON 2013). In case of subsidies for permanent cessation of fishing activities of those fleets which have become inactive during the year, it has to be decided if they can be classified in the segment of inactive vessel.	1. Obtained directly from survey 2. Obtained from administrative sources (e.g. paying Agency, Local authority). The compilation of data on subsidies is based on official lists provided by national and regional

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				administrations. These lists should be further elaborated to consider only payments that can be classified as operating subsidies (see definition). Each payment should be associated to one vessel. This link allows to report operating subsidies in fleet segments.
CAPITAL COSTS	Consumption of fixed capital	Decline in value of vessel and equipment, as a result of normal wear and tear and obsolescence.	Consumption of fixed capital (=Depreciation) represents the reduction in the value of the fixed assets used in production during the accounting period resulting from physical deterioration, normal obsolescence or normal accidental damage (EC study No. FISH/2005/03).	1. Obtained directly from survey 2. Derived from other surveyed variables According to DCF legislation (2010/93/EU) depreciation

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
			Corresponds to the DCF homologous variable Annual depreciation; a WS is planned to compare methodologies and calibrate / update input data for the PIM.	should be calculated using the degressive depreciation scheme based on capital values estimated using replacement values (STECF 11- 19, page 6) and included in the template model developed by EC study No. FISH/2005/03. The general assumptions proposed in the template model applies a degressive depreciation function and it assumes that engine is renovated every 10 years, electronics every 5

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				years, other
				equipment every 7
				years and hull
				never. The share of
				each asset item in
				the total vessel
				price is 60% for
				hull, 20% for the
				engine and 10% for
				both electronics
				and other
				equipment. The
				rentals expected in
				future periods are
				discounting using a
				discount rate,
				which is the
				interest rate on
				long terms bond.
				However, as for
				the estimation of
				the Capital value
				based on the PIM
				method, the
				assumptions used
				in the template
				model represent
				only a general

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				scheme that should be calibrated to the national situations. For the same reason the DCF Working Group Evaluation of data collection connected to Fishing Rights and Capital Costs (Gothenburg, 2013) suggested to use alternative approaches if accounting data (e.g. market value, book values) are available and can be easily derived by balance sheets.
CAPITAL VALUE	Value of physical capital	Depreciated replacement value of the vessel including on-board equipment with a useful lifetime of more than one year.	A workshop / study on best practices for calibrating the price per unit for each MS is needed (anticipated in early 2019)	1. Obtained directly from survey 2. Derived from other surveyed variables

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				The application of
				the Perpetual
				Inventory Method
				(PIM) performed
				through a
				template model
				developed by EC
				study No.
				FISH/2005/03
				proposes to
				determine the
				aggregate value of
				the physical capital
				in the current year
				by aggregation of
				active fleets by age
				or vintage classes.
				Once the value of
				the capital goods
				in a given
				benchmark year
				has been
				determined, the
				capital value of
				each subsequent
				year is calculated
				by adding
				investments of

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				that year (gross
				capital formation),
				revaluing the
				existing stock and
				subtracting value
				of capital goods
				taken out of
				operation
				(Depreciation). As
				the aggregation is
				based on current
				prices, this method
				gives an estimate
				of the depreciation
				replacement
				capital value.
				However, the
				calculation of
				capital stock
				according to PIM is based on several
				assumptions, which are also
				closely linked to
				several variables such as
				investment,
				depreciation,

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				capital cost, opportunity cost. The required input parameters and major assumptions are: • Depreciation rates • Share of capital components (hull, engine, electronics, other equipment) in total value • Life time of each asset
				• Price per Capacity Unit (PCU) The determination of the PCU probably has the highest impact on the results. For this reason, to harmonize across MS, the Naples

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				2011 suggested a hierarchical order of preference for possible prices/values of a ship, as: 1. Price of new constructed vessel; 2. 2nd hand price or insurance value of the current year; 3. Book value; 4. Scrapping value; 5. Other values (e.g. specific surveys to ask for an estimate of the current value of a vessel with certain characteristics in case previous indicators cannot be observed).
				The assumptions made in the study No. FISH/2005/03

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				represent in fact
				only a general
				scheme in order to
				provide a
				calculation tool.
				This general
				scheme should be
				changed and
				calibrated
				according to the
				specific needs of
				each country and
				to other empirical
				information, for
				example collected
				from Company
				accounts,
				Statistical surveys,
				Expert advice,
				European System
				of Integrated
				Economic
				Accounts (ESA).
				Taking into
				account that the
				input parameters
				of the PIM method
				are difficult to

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				determine and
				could vary over
				time, the DCF WG
				on Evaluation of
				data collection
				connected to
				Fishing Rights and
				Capital Costs (18 -
				22 November,
				2013, Gothenburg)
				recommended to
				make use of
				alternative
				methods for the
				estimation of
				capital value of
				vessels when
				accounting data
				are available.
				However, STECF
				10-09 also
				considered that
				the use of book
				value in order to
				estimate capital
				value and capital
				costs will limit the
				use of data to a

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
GROUP	Value of quota and other fishing rights	The current value of the right to exploit fishing grounds over more than one year. To be collected only when fishing rights are tradable and thus data on the value of fishing rights are available.	A specific study and review of the methods applied is needed (currently being addressed by the SECFISH project)	fiscal accounting analysis more than to an economic valuation. 1. Obtained directly from survey 2. Derived from other surveyed variables Tradable intangibles should be valued at current market price (or a multiyear average), independently of the question whether they have or have not been
	_	tradable and thus data on the value of fishing		t)

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
INVESTMENTS	Investments in tangible assets net	Gross investment in vessel and onboard equipment minus sales of (vessel and) onboard equipment.	PGECON suggests to use variables directly from survey. In case PIM method is used investment should be estimated from PIM method in order to ensure consistency with other variables. Gross investments in tangible assets = Purchases minus sales Net should be removed from the variable name to avoid confusion with financial accounting net investments, which refers to investments minus depreciation. Investments here should not include depreciation	1. Obtained directly from survey 2. Estimated from PIM method (it is not clear if this is being used by any MS, but it should be available from there) 3. Obtained from administrative sources

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
FINANCIAL POSITION	Long/short Debt (New)	Amount of money borrowed to be used to finance ongoing vessel activities including value of quota and other fishing rights. Excludes finance obtained for land-based business activities.	Variable name is ambiguous and should be changed to Gross debt.	1. Obtained directly from survey Balance sheets are considered the most reliable source of data for debts (MSs that derived the value of debts from questionnaires experienced a very poor quality of responses). When balance sheets are available, value of long/short debts have to be split by vessel, according to the capital value of each vessel estimated trough the PIM which is used to "weigh" the share on the total value. On the other hand,

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				to estimate this
				variable when
				balance sheets are
				not available, the
				methodology is:
				1. To estimate the
				financial position
				as the ratio total
				debt/total value of
				assets
				2. To use the value
				of capital (deriving
				from the PIM) as a
				proxy for total
				value of assets (it
				is important to
				bear in mind that
				the PIM value
				refers only to
				physical capital).
				3. To derive the
				value of long/short
				term debts (sum)
				multiplying the
				financial position
				ratio (estimated in
				1) by the value of

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				assets (estimated in 2).
	Total assets (New)	"Balance sheet total", fixed assets and financial assets. It is essential that the two item of the ratio (debts and total asset) should be consistent. For example, if debts refer only to physical capital, the denominator (total asset) should refer to the physical capital as well. If debts comes from balance sheets and refer to the overall fishing activity, the total assets should be derived from balance sheets as well.		1. Obtained directly from survey Balance sheets are considered the most reliable source of data for total assets (MSs that derived the value of debts from questionnaires experienced a very poor quality of responses).

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				To split the total
				(company) value of
				assets in case the
				company owns
				more than one
				vessel, the capital
				value of each
				vessel estimated
				trough the PIM
				could be used to
				"weight" the share
				on the total value.
				In case balance
				sheets are not
				available,
				estimation
				methodology of
				value of capital
				and value of debts
				have to be in line
				and derived from
				the PIM.

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
	Engaged crew	Number of jobs on board, equal to the average number of persons working for and paid by the vessel. This includes temporary crew as well as rotation crew, irrespective of the total number of hours. People working only onshore and paid from vessels should be included if their activity has a direct link with the fishing operations. Employment on shore should include those activities, which directly related to small-scale fisheries and mostly carried out by fishers and their family members, but not entirely related to other economic sectors and specialties.	Currently, includes unpaid labour as the term 'Engaged crew' implies. Propose to change variable to Paid Labour (and update definition to exclude unpaid labour)	1. Obtained directly from survey
EMPLOYMENT	Unpaid labour (New)	Number of engaged crew that have not received compensation in the form of wages, salaries, fees, gratuities, piecework pay or remuneration in kind.		1. Obtained directly from survey 2. Derived from other surveyed variables
	FTE National	The number of crew converted into full time equivalent jobs (FTE). People working only onshore and paid from vessels should be included if their activity has a direct link with the fishing operations. Employment on shore should include those activities, which directly related to small-scale fisheries and mostly carried out by fishers and	From 2017 onwards, FTE falls under social variables (EUMAP). PGECON recommends to keep as economic variable in the fleet data call to guarantee annual data (as in DCF).	1. Derived from other surveyed variables FTE definition: unit expressing the number of employees into full-time workers (usually defined in

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
		their family members, but not entirely related		the national law).
		to other economic sectors and specialties.		Appendix VI of the
				current regulation
				refers, in note 17
				and 18 to the
				study "Calculation
				of labour including
				full-time
				equivalent (FTE) in
				fisheries"
				(FISH/2005/14, 'LEI
				WAGENINGENUR
				Coordinator,
				2006), financed by
				EU in order to
				harmonise the
				definition and the
				estimation of
				employment
				variables under the
				data collection
				system.
				According to that
				study, the
				estimation of the
				FTE should be
				done by using a
				threshold

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				representing the
				total number of
				hours worked, on a
				standard and
				yearly basis, by a
				full-time worker in
				the fishery sector.
				The study was
				based on the
				estimation of the
				engaged crew and
				of the FTE at
				métier level in
				order to trace the
				reality of labour
				input in fishing as
				closely as possible.
				This approach was
				mainly because:
				- at the time of the
				study, there were
				discussions at the
				STECF, about the
				possibilities to
				collect, under the
				revised DCR,
				economic data at
				métiers level;

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				- "different fisheries may be characterised by different labour intensities and consequently by different levels of labour productivity. This is an important aspect of economic analysis; using métiers in general improves the analytical understanding of the operation of the various fleets".
				The concept of metier has been not introduced in the collection of economic data but the general approach on the definition of FTE, in particular on the

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
GROUP				definition of the yearly threshold (time-based approach), has been largely applied under the DCF. According to the study, a person working more than the threshold (holding one or more jobs) is still counted as one FTE only. A person working less than the threshold represents a certain percentage of a FTE. FTE national should be
				calculated using a threshold defined according to the features of the fishery sector in each MS. If the annual

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				working hours per
				crewmember
				exceed the
				reference level,
				the FTE equals 1
				per crewmember.
				- if annual working
				hours > national
				threshold, then
				FTE national =1
				If not, the FTE
				equals the ratio
				between the hours
				worked and the
				reference level.
				- if annual working
				hours < national
				threshold, then
				FTE national =
				annual working
				hours/(national
				threshold).
				In segments where
				this assumption
				(the annual
				working hours per
				crewmember

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				exceed the reference level (the FTE equals 1 per crewmember) is not valid and an additional adjustment of the calculation may be required, if it can be expected that the result will be significantly affected (Study No FISH/2005/14).
	Total hours worked per year (New)	The aggregate number of hours worked by the engaged crew during the reference period. People working only onshore and paid from vessels should be included if their activity has a direct link with the fishing operations. Employment on shore should include those activities, which directly related to small-scale fisheries and mostly carried out by fishers and their family members, but not entirely related to other economic sectors and specialties.	Note that for Engaged crew, hours worked includes paid and unpaid labour as well as onshore labour with a direct link with the fishing operations. If engaged crew is changed to paid labour, specification needs to be updated (hours worked by paid and unpaid labour)	1. Obtained directly from survey 2. Derived from other surveyed variables Calculated based on effort, number of vessels and average crew number.

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
	Number of vessels	Number of vessels in the EU Fishing Fleet Register on December 31st plus the number of vessels, which have been involved in any fishing activity during the year and have left the Fleet Register prior to year-end.		1. Obtained from the Fleet register
FLEET	Mean LOA of vessels	Average vessel length overall		1. Obtained from the Fleet register
	Total vessel tonnage	Sum of the tonnage of the vessels		1. Obtained from the Fleet register
	Total vessel power	Sum of the power of the main engines of the vessels		1. Obtained from the Fleet register
	Mean age of vessels	Average vessel age		1. Obtained from the Fleet register
EFFORT	Days at sea	To be aligned with the definition of the respective transversal variable.	For the small-scale fleet vessels less than 10 meters, it could be assumed that 1 Day at Sea is equivalent to 1 Fishing Day as far as no other data contradicts this hypothesis. Nevertheless, this assumption has to be assessed regionally by fishery, as significant differences can occur between them.	1. Obtained from logbooks 2. Obtained directly from survey
	Energy consumption	Volume of vessel fuel consumed in litres	PGECON could not define preferred method as it depends on the national context.	1. Obtained directly from survey 2. Obtained from administrative

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
				sources (e.g. in
				case tax
				exemptions are
				used in the
				country)
				3. Derived from
				other surveyed
				variables
				Regression models
				could be used by
				some MS
				(regression models
				using 'engine
				power', 'days at
				sea' and
				'coefficient of fuel
				consumption by
				engine power')

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodology
NUMBER OF FISHING ENTERPRISES /UNITS	Number of fishing enterprises/units	Number of fishing enterprises/units in ownership of the respective number of vessels. This refers to the fleet as a whole, not to fleet segments. By size category: - 1 owned vessel - 2-5 owned vessels - > 5 owned vessels Number of enterprises shall be collected on the level of the total fleet not fleet segment.		1. Obtained from the Fleet register
PRODUCTION	Value of landings per species	Value of landings per species	To be aligned with the definition of the respective transversal variable.	
VALUE PER SPECIES	Average price per species	Gross value of landings per kilogram live weight	To be aligned with the definition of the respective transversal variables. This variable can be derived from the weight and value of landings (as in the DCF) and therefore, no need to be requested	