VARIABLE GROUP	Variable	Definition	PGECON advice	Method
INCOME	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. Obtaine 2. Derived variables. landings
	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. Obtaine 2. Derived In case the available fr average lea average lea
	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. Obtaine
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 home- workers) 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 fisheries and mostly carried out by fishers and their family members, but not entirely related to other economic sectors and specialties.	MS should take into account how crew share is defined in the fishery, in case crew share based calculations are used.	 Obtaine Derived In several f share system personnel of revenues n To correctle fleet segmed what is the on total revenues what are what is the
	Value of unpaid labour	Imputed value of unpaid labour. Unpaid labour = Work that produces goods or services but is unremunerated (OECD Glossary of statistical terms). People working only on shore should be included only if their work is directly related to fishing activity.	The estimation of the imputed value of unpaid labour was discussed during the WS on calculating capital value using PIM and definition of DCF 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 MS (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)	 Derived FTE met following s estimatic definition average wa minimum r calculatic (average re

ed directly from survey from administrative sources or other surveyed The data source is the official national statistics on

ed directly from survey from other surveyed variables

e trade (lease) information in terms of fishing rights is rom official sources, this information together with the ase price can be used to calculate the variable. The ase price would be collected through the survey.

ed directly from survey

ed directly from survey

from other surveyed variables

- fisheries, crewmembers are remunerated through ems rather than having a fixed salary. In this case, costs can be calculated as a % of revenue, or as a % of
- minus costs.
- ly apply this method, it is necessary to define, for each ent:
- he approach used to calculate the share: as percentage venues or as percentage of revenues costs
- the costs actually included to calculate the share
- he percentage that goes to the crew

from other surveyed variables

- thod (based on WS Naples, 2011), that includes the steps:
- on of paid and unpaid FTE;
- n of an average remuneration per paid FTE (e.g.
- age by fleet segment/company, national average wage, national wage, etc...);
- on of imputed value of unpaid labour = unpaid FTE *
- emuneration per paid FTE).

VARIABLE GROUP	Variable	Definition	PGECON advice	Method
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.	 Obtaine Derived Fuel cost control by the aver
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. Obtaine
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. Obtaine
	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. Obtaine
	Lease/rental payments for quota or other fishing rights	Total purchases of "Lease/rental payments for quota or other fishing rights"		1. Obtaine 2. Derived In case the available fr average lea average lea
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 homologous DCF variable Direct subsidies	1. Obtaine 2. Obtaine Local author The compil provided b should be f be classifie should be a operating s

ed directly from survey I from other surveyed variables could be calculated by multiplying the fuel consumption grage fuel price, if fuel consumption is available

ed directly from survey

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ed directly from survey from other surveyed variables

e trade (lease) information in terms of fishing rights is rom official sources, this information together with the ase price can be used to calculate the variable. The ase price would be collected through the survey.

ed directly from survey ed from administrative sources (e.g. paying Agency, ority).

lation of data on subsidies is based on official lists by national and regional administrations. These lists further elaborated to consider only payments that can ed as operating subsidies (see definition). Each payment associated to one vessel. This link allows to report subsidies in fleet segments.

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodo
	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 vessels 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 2. Obtained Local author The compila provided by should be fu be classified should be as
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). Corresponds to the homologous DCF variable Annual depreciation; a WS is planned to compare methodologies and calibrate / update input data for the PIM. PGECON to revise the guidelines (definition and methodology) based on the outcomes of the 2019_WS_Capital. Changes to be discussed and approved by the 2020 PGECON	1. Obtained 2. Derived fi According to calculated u capital value page 6) and study No. Fi The general a degressive renovated e equipment e item in the t and 10% for expected in which is the However, as PIM method represent or national situ Evaluation of Capital Cost approaches available an
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) PGECON 2020 to revise the guidelines (definition and methodology) based on the outcomes of the 2019_WS_Capital. 2019_WS_Capital reviewed the best practices proposed by the 2011_WS and proposes step-by-step guidelines on how to obtain appropriate PCUs to be used as an input in the PIM method.	1. Obtained 2. Derived for The applicat performed t FISH/2005/C physical cap by age or vir given bench each subseq year (gross of subtracting (Depreciation method give value. However, th based on set several varia opportunity

d directly from survey

d from administrative sources (e.g. paying Agency, ority).

lation of data on subsidies is based on official lists by national and regional administrations. These lists further elaborated to consider only payments that can ed as operating subsidies (see definition). Each payment associated to one vessel.

d directly from survey from other surveyed variables

to DCF legislation (2010/93/EU) depreciation should be using the degressive depreciation scheme based on ues estimated using replacement values (STECF 11-19, d included in the template model developed by EC FISH/2005/03.

al assumptions proposed in the template model applies ve depreciation function and it assumes that engine is every 10 years, electronics every 5 years, other t every 7 years and hull never. The share of each asset t total vessel price is 60% for hull, 20% for the engine or both electronics and other equipment. The rentals in future periods are discounting using a discount rate, e interest rate on long terms bond.

as for the estimation of the Capital value based on the od, the assumptions used in the template model only a general scheme that should be calibrated to the tuations. For the same reason the DCF Working Group of data collection connected to Fishing Rights and sts (Gothenburg, 2013) suggested to use alternative s if accounting data (e.g. market value, book values) are nd can be easily derived by balance sheets.

d directly from survey

from other surveyed variables

ation of the Perpetual Inventory Method (PIM) I through a template model developed by EC study No. /03 proposes to determine the aggregate value of the apital in the current year by aggregation of active fleets vintage classes. Once the value of the capital goods in a chmark year has been determined, the capital value of equent year is calculated by adding investments of that is capital formation), revaluing the existing stock and g value of capital goods taken out of operation ion). As the aggregation is based on current prices, this wes an estimate of the depreciation replacement capital

the calculation of capital stock according to PIM is everal assumptions, which are also closely linked to riables such as investment, depreciation, capital cost, cy cost. The required input parameters and major

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodo
				assumption: • Depreciati • Share of ca equipment) • Life time ca • Price per Ca The determine the results. 2011 suggest prices/value 1. Price of m 2. 2nd hand 3. Book value 4. Scrapping 5. Other value current value previous ince The assumption fact only at tool. This get according to empirical inter- accounts, Ste Integrated E Taking into at are difficult on Evaluation Capital Coster recommended available. He book value inter- limit the use
	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) PGECON 2020 to revise the guidelines (definition and methodology) based on the outcomes of the 2019_WS_Capital. 2019_WS_Capital reviewed the SECFISH guidelines for the valuation of fishing rights and propose some additions/clarifications.	1. Obtained 2. Derived f Tradable int a multi-year they have of not linked to

ns are:

tion rates

capital components (hull, engine, electronics, other

t) in total value

of each asset

Capacity Unit (PCU)

nination of the PCU probably has the highest impact on . For this reason, to harmonize across MS, the Naples ested a hierarchical order of preference for possible ues of a ship, as:

new constructed vessel;

d price or insurance value of the current year; lue;

ng value;

alues (e.g. specific surveys to ask for an estimate of the lue of a vessel with certain characteristics in case indicators cannot be observed).

ptions made in the study No. FISH/2005/03 represent a general scheme in order to provide a calculation general scheme should be changed and calibrated to the specific needs of each country and to other nformation, for example collected from Company Statistical surveys, Expert advice, European System of Economic Accounts (ESA).

account that the input parameters of the PIM method t to determine and could vary over time, the DCF WG ion of data collection connected to Fishing Rights and sts (18 - 22 November, 2013, Gothenburg)

ided to make use of alternative methods for the of capital value of vessels when accounting data are However, STECF 10-09 also considered that the use of in order to estimate capital value and capital costs will se of data to a fiscal accounting analysis more than to nic valuation.

d directly from survey

from other surveyed variables

ntangibles should be valued at current market price (or ar average), independently of the question whether or have not been acquired or whether they are or are to specific tangible (e.g. vessel).

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodo
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 PGECON to revise the guidelines (definition and methodology) based on the outcomes of the 2019_WS_Capital. Changes to be discussed and approved by the 2020 PGECON	1. Obtained 2. Estimate by any MS; 3. Obtained
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 Balance she debts (MSs experience When balan have to be vessel estim share on th On the othe are not ava 1. To estim value of ass 2. To use th for total val PIM value r 3. To derive the financia (estimated
	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 Balance she total assets questionna To split the owns more estimated t the total va In case bala of value of derived fro

ed directly from survey ed from PIM method (it is not clear if this is being used ; if used, MS should specify in 'comments') ed from administrative sources

ed directly from survey

- neets are considered the most reliable source of data for s that derived the value of debts from questionnaires ed a very poor quality of responses).
- ance sheets are available, value of long/short debts split by vessel, according to the capital value of each mated trough the PIM which is used to "weigh" the he total value.
- ner hand, to estimate this variable when balance sheets ailable, the methodology is:
- nate the financial position as the ratio total debt/total ssets
- he value of capital (deriving from the PIM) as a proxy lue of assets (it is important to bear in mind that the refers only to physical capital).
- re the value of long/short term debts (sum) multiplying ial position ratio (estimated in 1) by the value of assets d in 2).

ed directly from survey

- eets are considered the most reliable source of data for s (MSs that derived the value of debts from
- aires experienced a very poor quality of responses).
- e total (company) value of assets in case the company
- e than one vessel, the capital value of each vessel trough the PIM could be used to "weight" the share on
- alue.
- ance sheets are not available, estimation methodology capital and value of debts have to be in line and om the PIM.

VARIABLE GROUP	Variable	Definition	PGECON advice	Methodo
	Engaged crew	Total number of persons who have worked onboard the vessel, 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) The total number of persons should be estimated as an annual average (consistent with the DCF). To be further discussed during PGECON 2020 meeting	1. Obtained
	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 2. Derived 1
EMPLOYMENT	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 their family members, but not entirely related to other economic sectors and specialties.	From 2017 onwards, FTE falls under social variables (EUMAP). PGECON recommends to keep it as an economic variable in the fleet data call to guarantee annual data (as in DCF).	1. Derived f FTE definition time worke Appendix V the study "C (FTE) in fish Coordinator definition a data collect According to by using a ti worked, on the fishery s engaged creater reality of lal approach w - at the tim about the p data at mét - "different intensities a productivity using métie the operation The concep of economi FTE, in part based appro According t (holding on person wor percentage FTE nationa according to If the annual

d directly from survey

d directly from survey from other surveyed variables

from other surveyed variables

ion: unit expressing the number of employees into fullers (usually defined in the national law).

VI of the current regulation refers, in note 17 and 18 to 'Calculation of labour including full-time equivalent heries" (FISH/2005/14, 'LEI WAGENINGENUR or, 2006), financed by EU in order to harmonise the and the estimation of employment variables under the

and the estimation of employment variables under the stion system.

to that study, the estimation of the FTE should be done threshold representing the total number of hours in a standard and yearly basis, by a full-time worker in sector. The study was based on the estimation of the rew and of the FTE at métier level in order to trace the abour input in fishing as closely as possible. This was mainly because:

ne of the study, there were discussions at the STECF, possibilities to collect, under the revised DCR, economic tiers level;

It fisheries may be characterised by different labour and consequently by different levels of labour ty. This is an important aspect of economic analysis; iers in general improves the analytical understanding of ion of the various fleets".

pt of metier has been not introduced in the collection ic data but the general approach on the definition of ticular on the definition of the yearly threshold (timeroach), has been largely applied under the DCF. to the study, a person working more than the threshold ne or more jobs) is still counted as one FTE only. A rking less than the threshold represents a certain e of a FTE.

al should be calculated using a threshold defined to the features of the fishery sector in each MS. Ial working hours per crewmember exceed the level, the FTE equals 1 per crewmember.

working hours > national threshold, then FTE national

VARIABLE GROUP	Variable	Definition	PGECON advice	Method
				=1 If not, the I reference I - if annual annual wo
				In segment crewmemt crewmemt calculation will be sign
	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. Obtaine 2. Derived Calculated number.
	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. Obtaine
	Mean LOA of vessels	Average vessel length overall		1. Obtaine
FLEET	Total vessel tonnage	Sum of the tonnage of the vessels		1. Obtaine
	Total vessel power	Sum of the power of the main engines of the vessels		1. Obtaine
	Mean age of vessels	Average vessel age		1. Obtaine
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. Obtaine 2. Obtaine
	Energy consumption	Volume of vessel fuel consumed in litres	PGECON could not define preferred method as it depends on the national context.	1. Obtaine 2. Obtaine exemption 3. Derived Regression using 'engi consumptio

FTE equals the ratio between the hours worked and the level.

working hours < national threshold, then FTE national = rking hours/(national threshold).

ts where this assumption (the annual working hours per ber exceed the reference level (the FTE equals 1 per ber) is not valid and an additional adjustment of the may be required, if it can be expected that the result nificantly affected (Study No FISH/2005/14).

ed directly from survey from other surveyed variables based on effort, number of vessels and average crew

ed from the Fleet register

ed from logbooks ed directly from survey

ed directly from survey ed from administrative sources (e.g. in case tax as are used in the country) from other surveyed variables in models could be used by some MS (regression models ine power', 'days at sea' and 'coefficient of fuel ion by engine power')

VARIABLE GROUP	Variable	Definition	PGECON advice	Method
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. Obtaine
PRODUCTION VALUE PER SPECIES	Value of landings per species	Value of landings per species	To be aligned with the definition of the respective transversal variable.	
	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. NOTE: EU-MAP calls for the variable Live weight of landings per species to be provided in tonnes .	

ed from the Fleet register