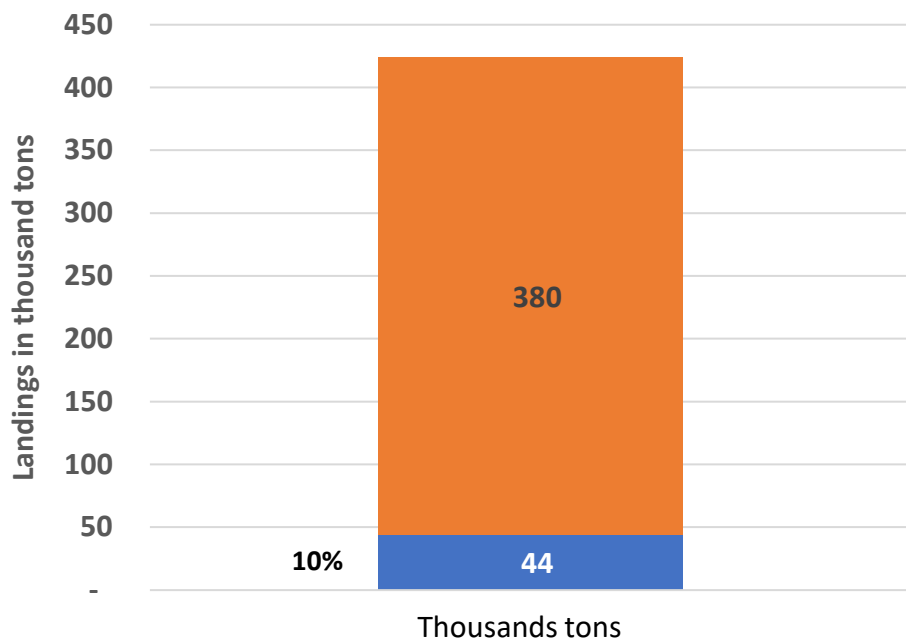


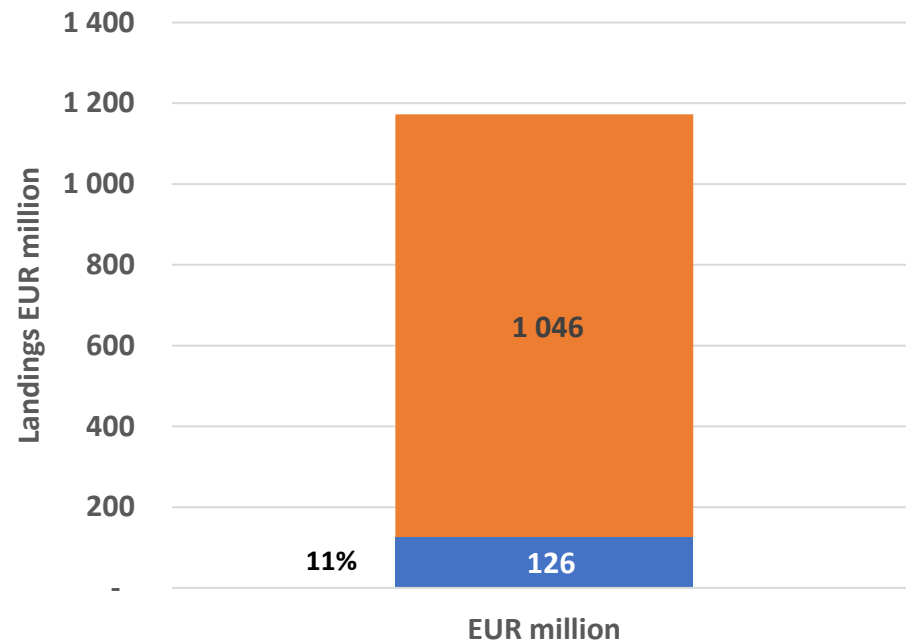


SOCIO-ECONOMIC
ASPECTS OF FRENCH
SCALLOP FISHERIES
IN THE CHANNEL:
AN INTRODUCTION

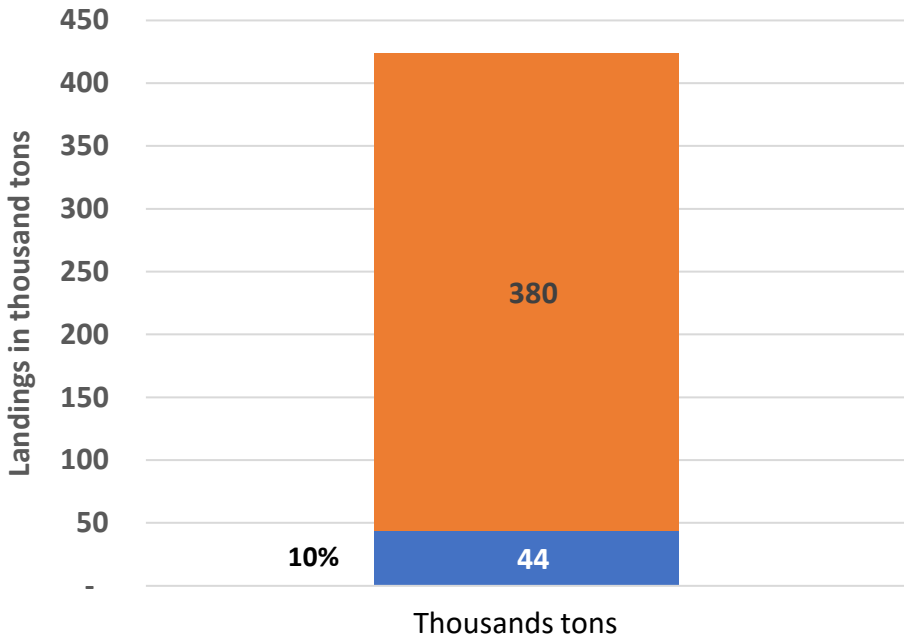
North Atlantic landings in tons in 2022 (King scallop and other species)



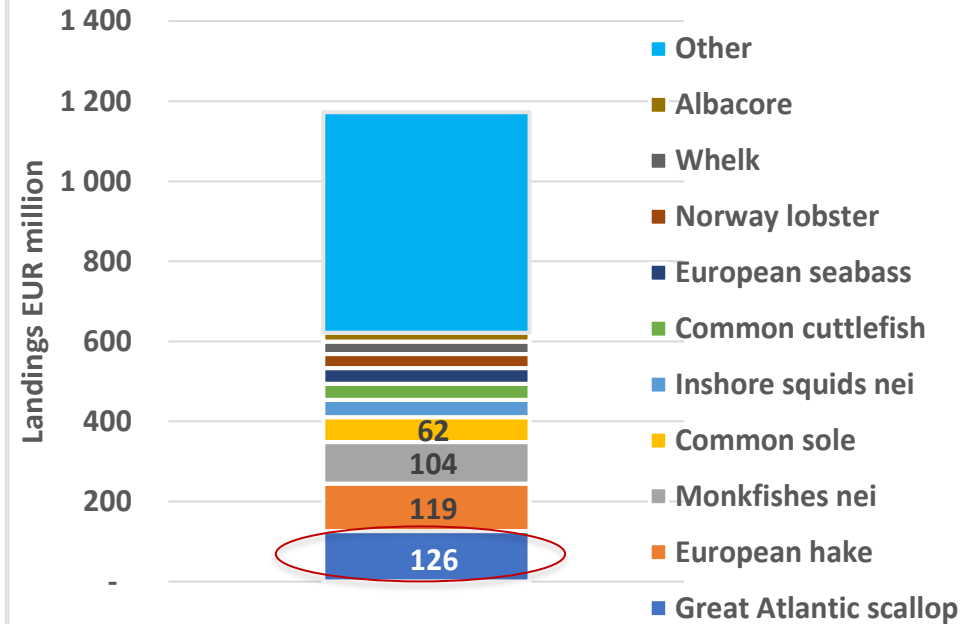
North Atlantic landings in EUR million in 2022 (King scallop and other species)



**North Atlantic landings in tons (2022)
(King scallop and other species)**



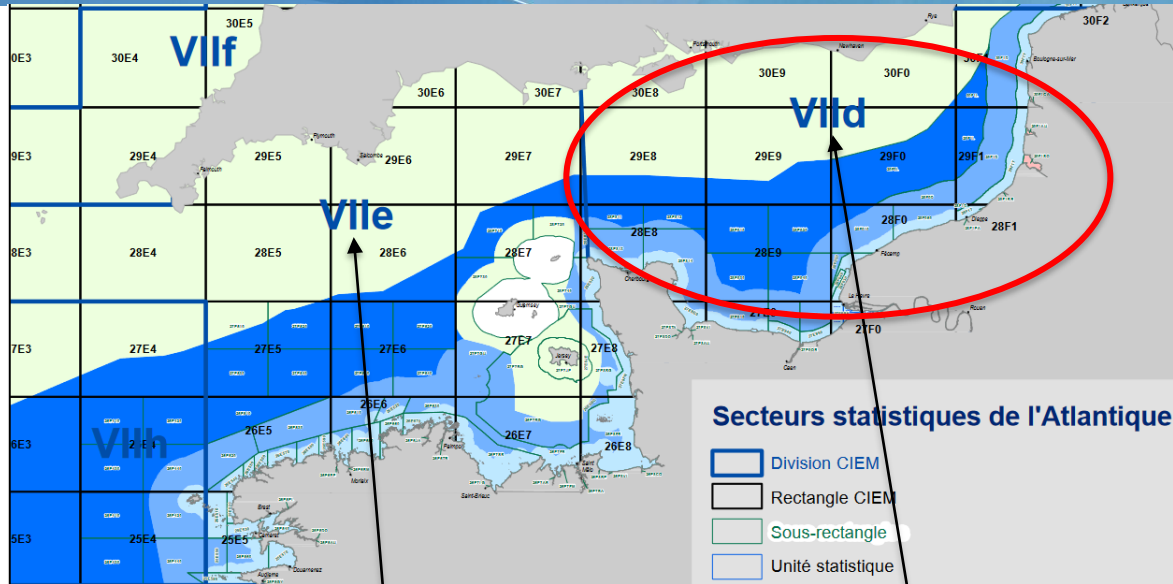
**North Atlantic landings in EUR million (2022)
(King scallop and other species)**



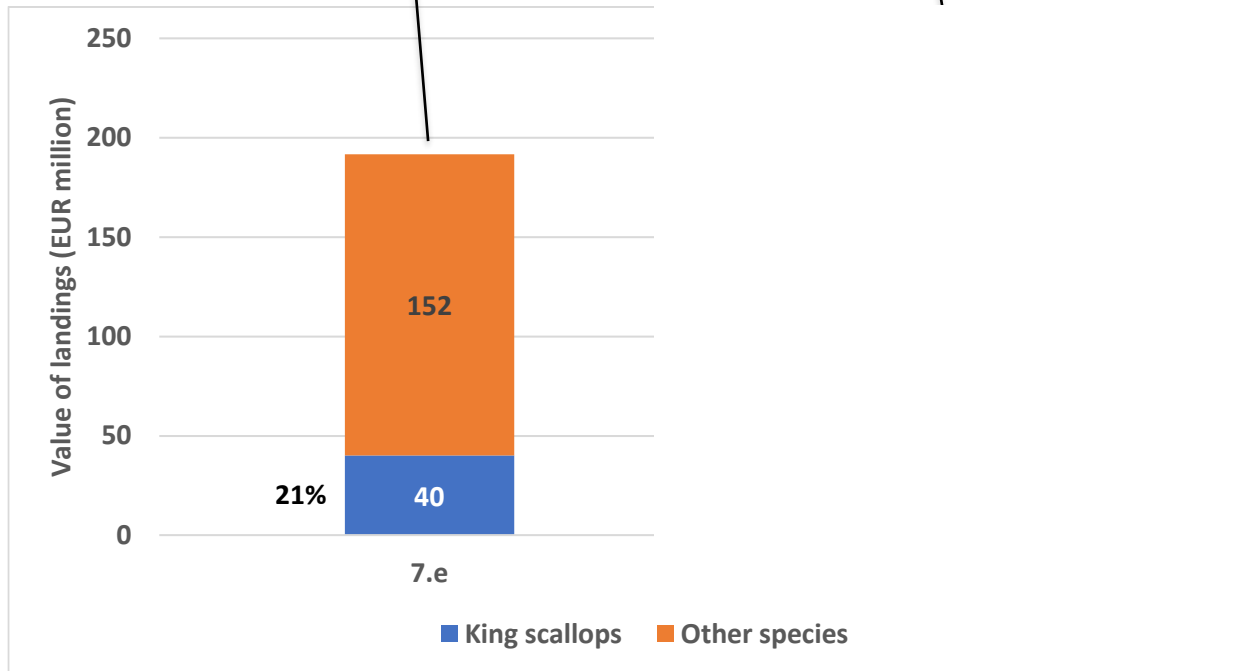
Most important species in landings value and weight in France for the North Atlantic area

King scallop and French landings in value per area in the Channel

**Total landings in weight & value:
44 000 tons
EUR 126 million in 2022**



Landings in EUR million in Channel areas 7.e, 7.b in 2022 (King scallop and other species)

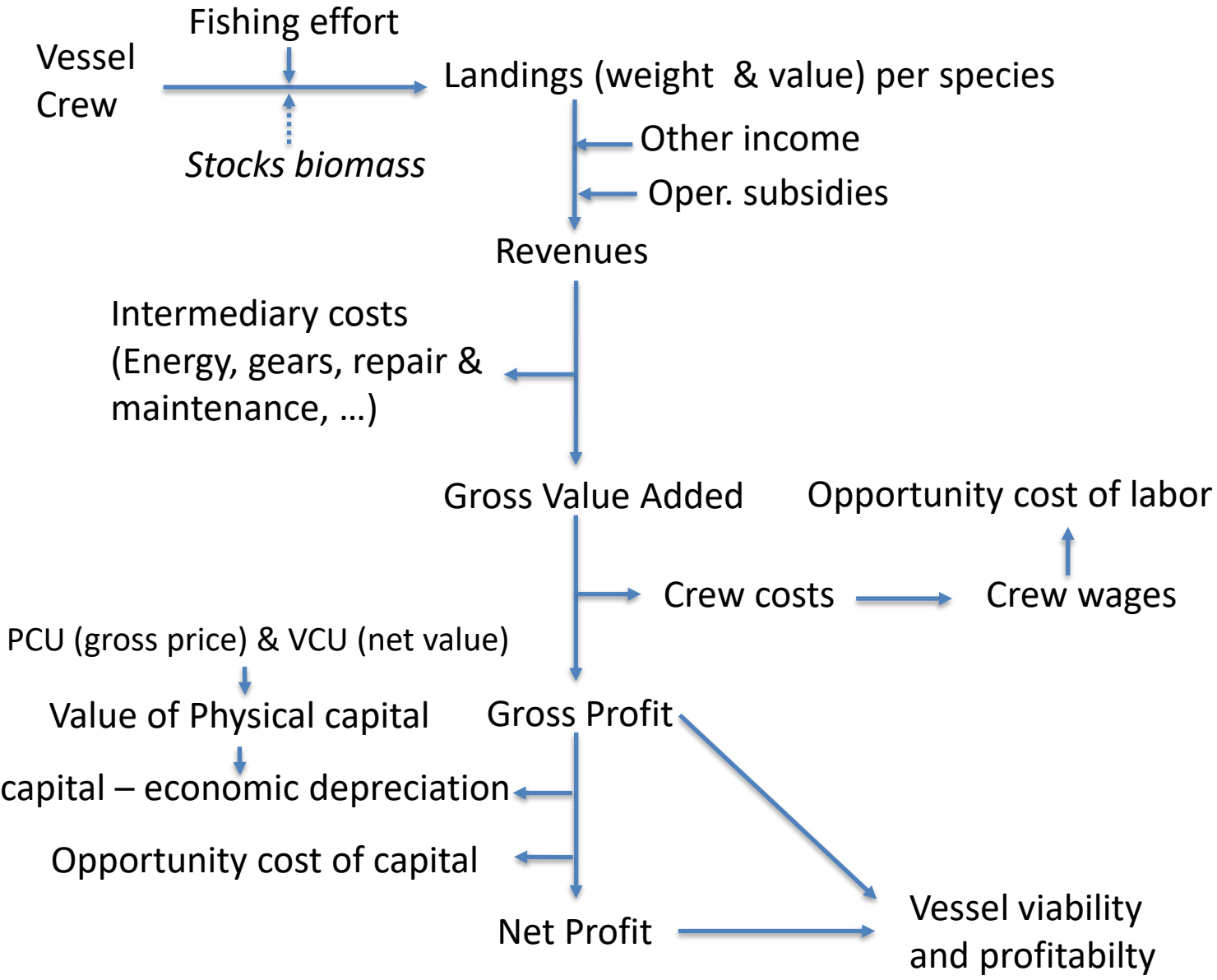


Capacity, effort & economic indicators: methodology

By fleet or segment:

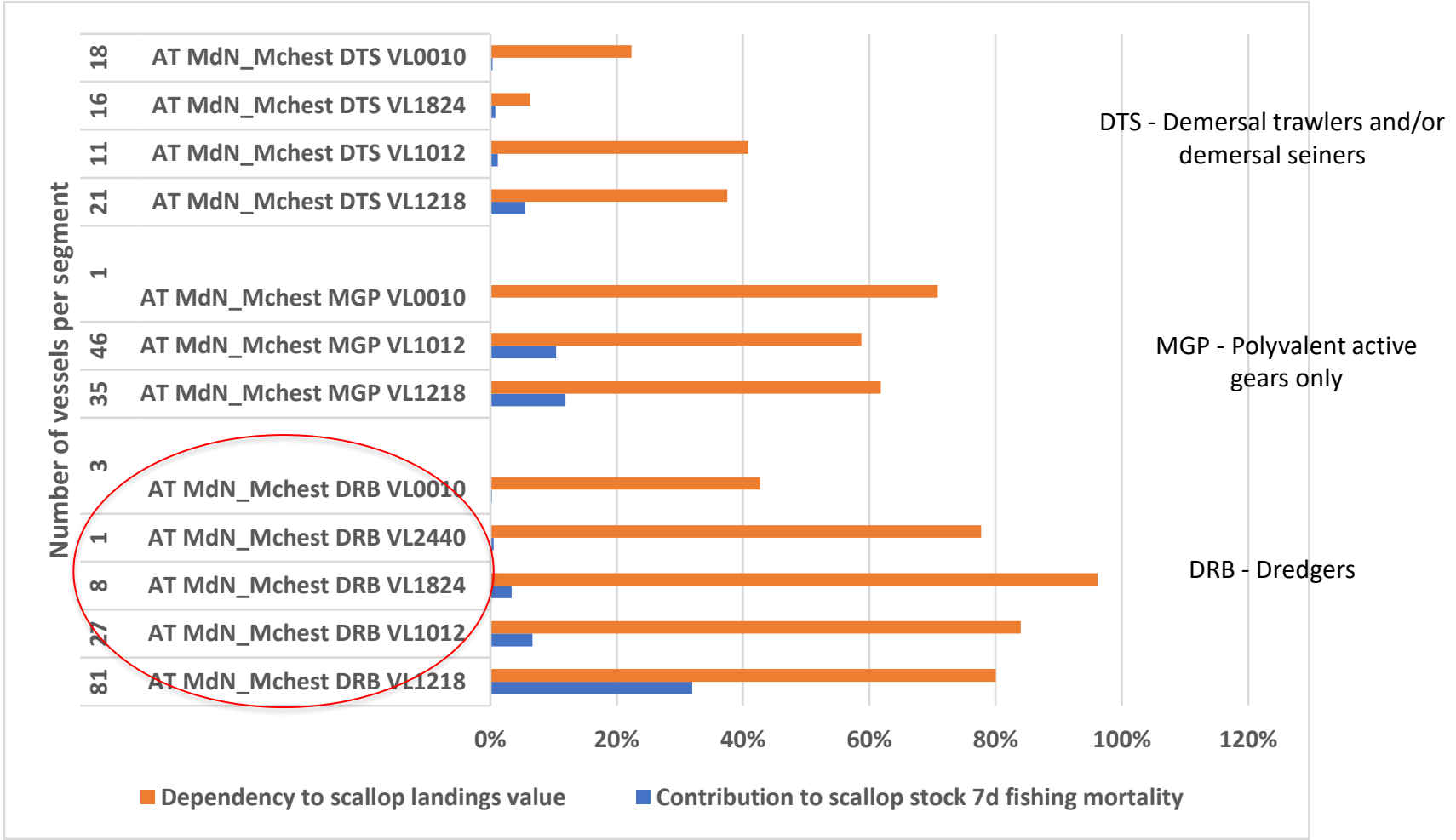
group of vessels having the "same strategy":
 Main gear or comb. of gears,
 Vessel size category,
 Other criteria, ...

→ Derived indicators and ratios used in STECF groups



Selection of the **main segments** operating on scallops stocks in **area 7d** in 2022:
 Number of vessels, contribution to scallop stock mortality and economic dependence (preliminary data to be revised)

12 over 31 segments

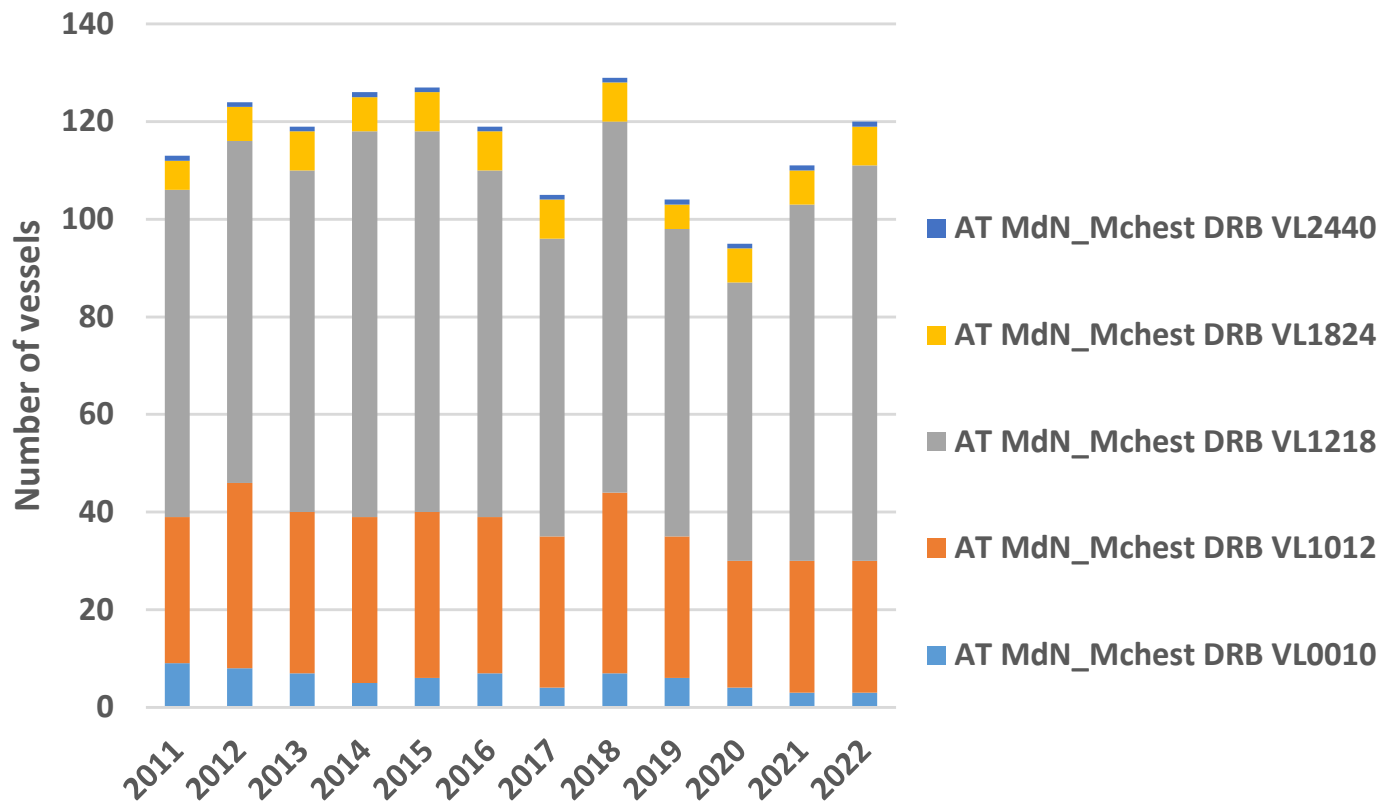


- **Segments** based on EU DCF classification : Main gear used and length category
- **Additional information** based on vessels main area of operation (7d)

N.B. Histories of vessels scallop licenses would be useful

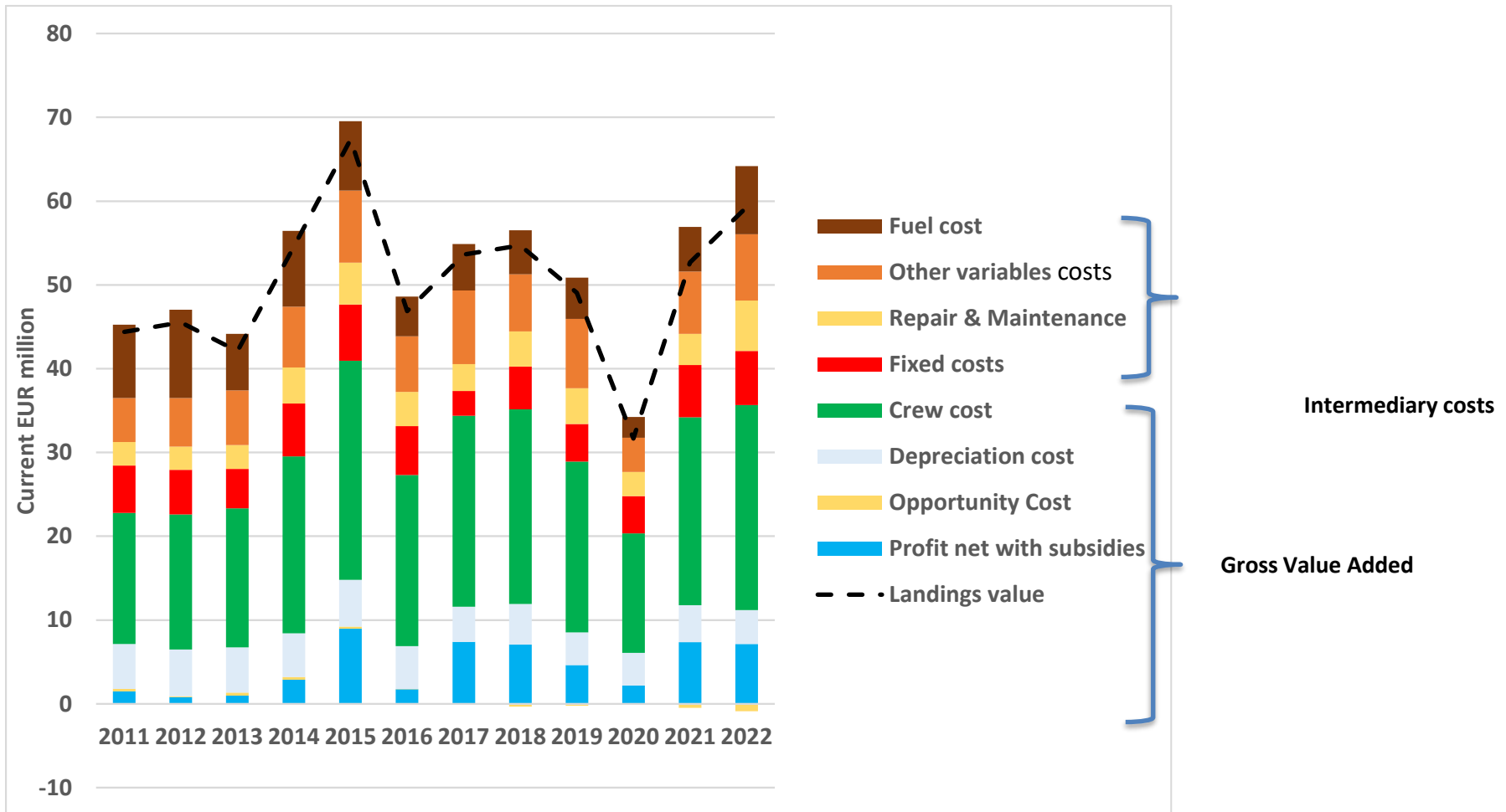
Source: AER/Capacity data set: DGAMPA-Ifremer

Evolution of the number of active vessels for the selected DRB (Dredge) segments



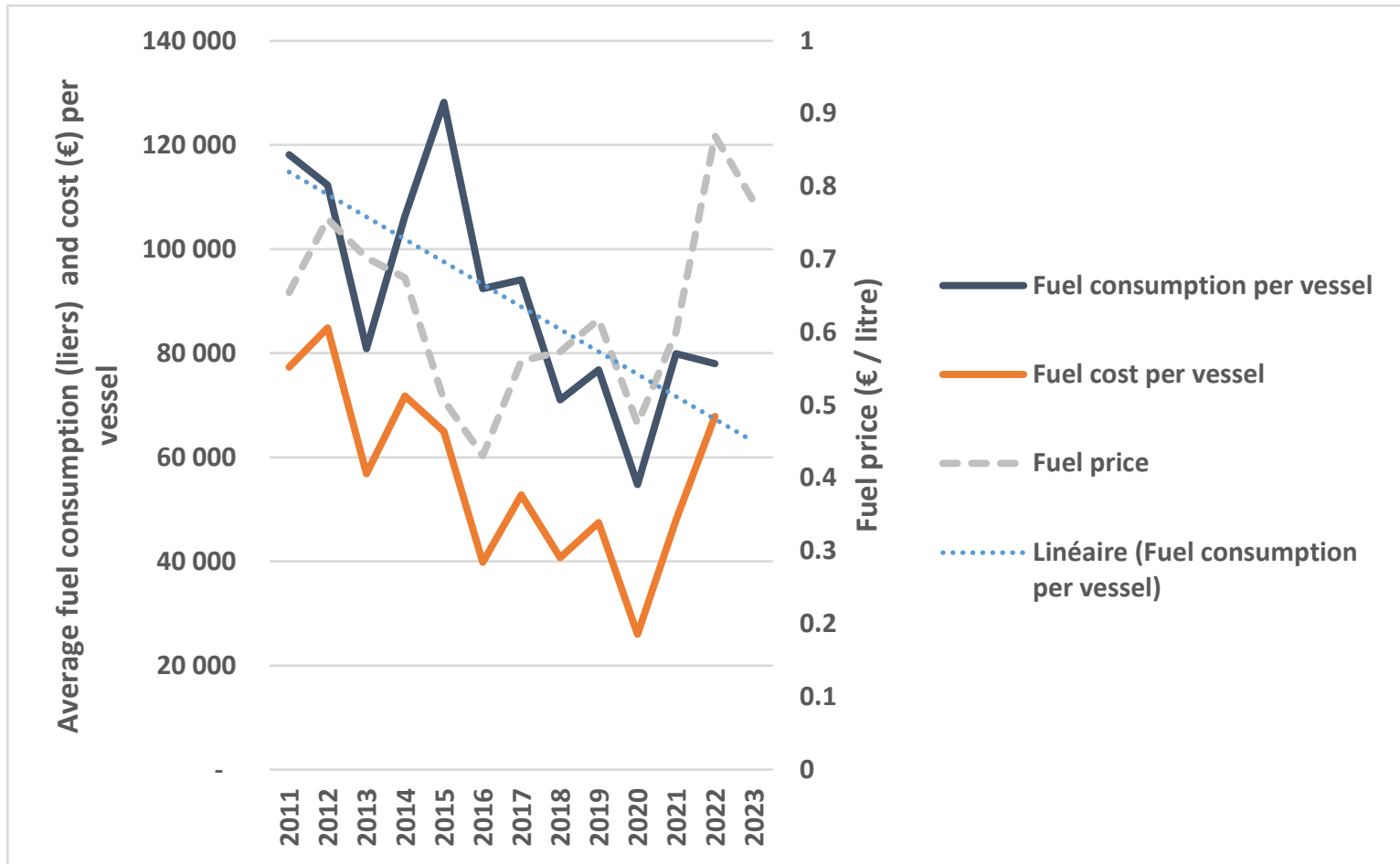
➤ Relative stability with however recent new vessels

Total landings, revenues, operation costs and profits for DRB (dredge) segments over the 2011-2022 period



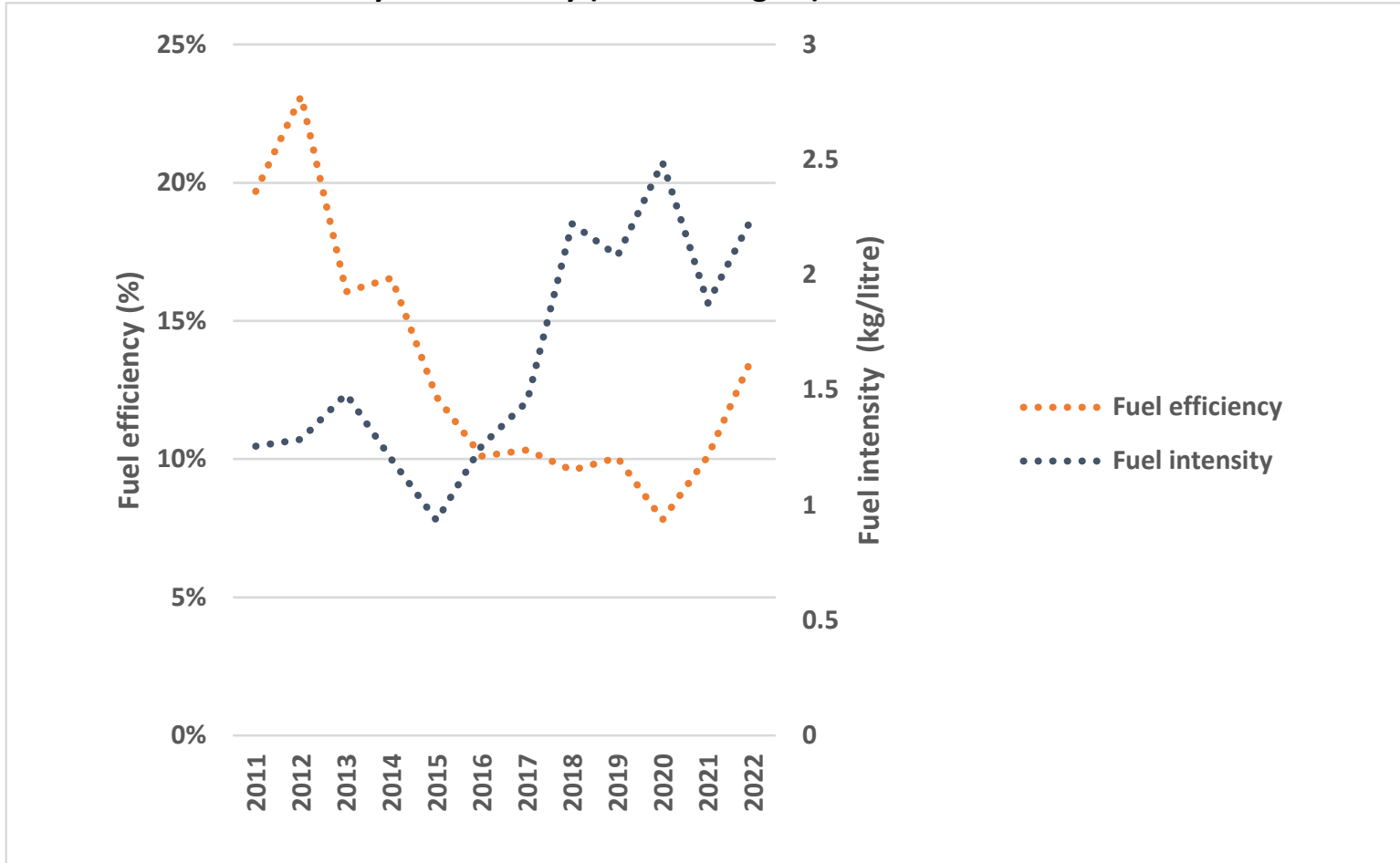
➤ Increase in GVA and GVA/Revenue, profits

Energy used by DRB - dredgers : Average fuel consumption, unit price and cost per vessel (DRB)



➤ Decreased fuel consumption in relation to reduced fishing activity and better stock status (?)

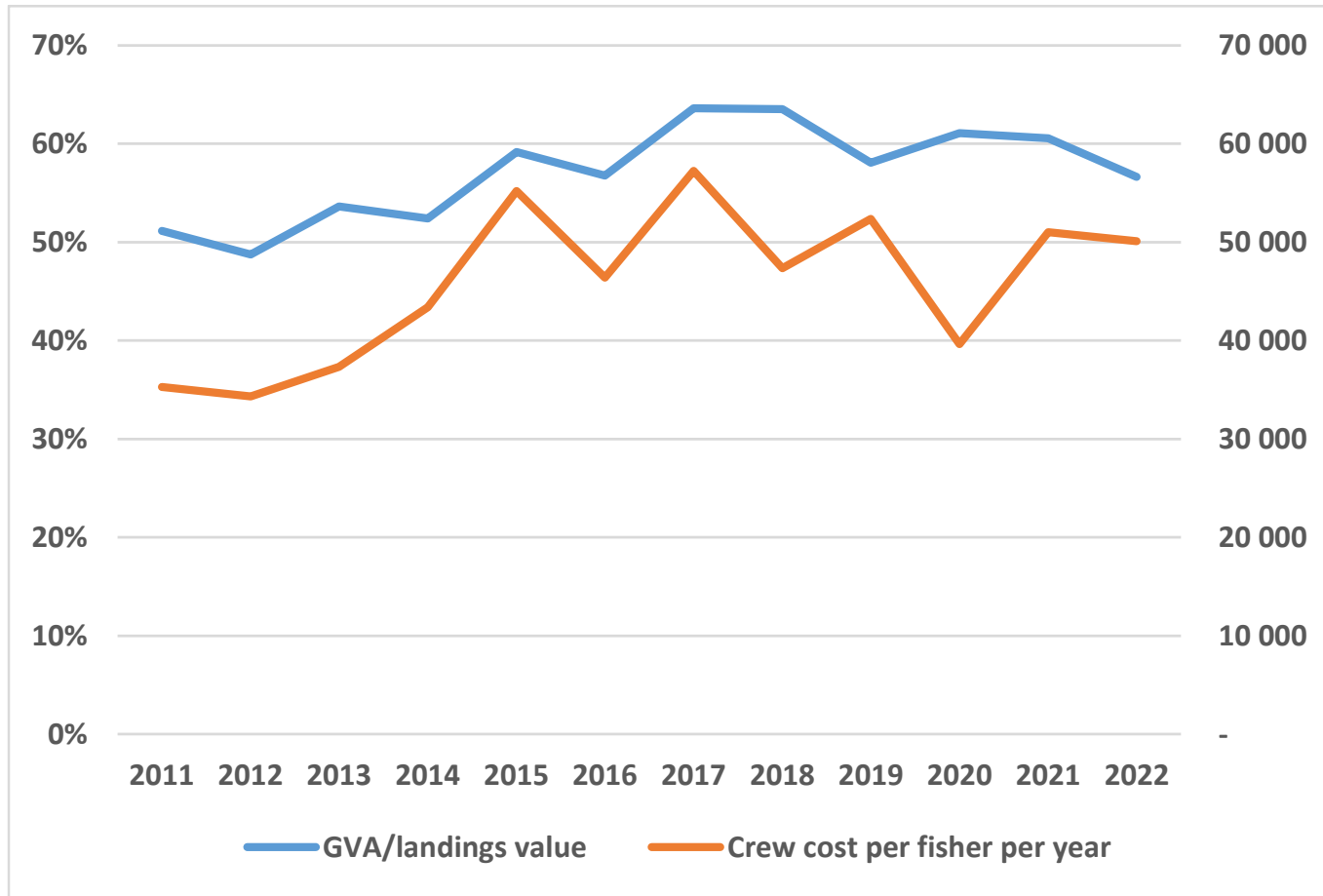
Fuel efficiency and intensity (DRB - Dredgers)



Fuel efficiency = ratio between fuel costs and the income from landings expressed as a percentage (%)

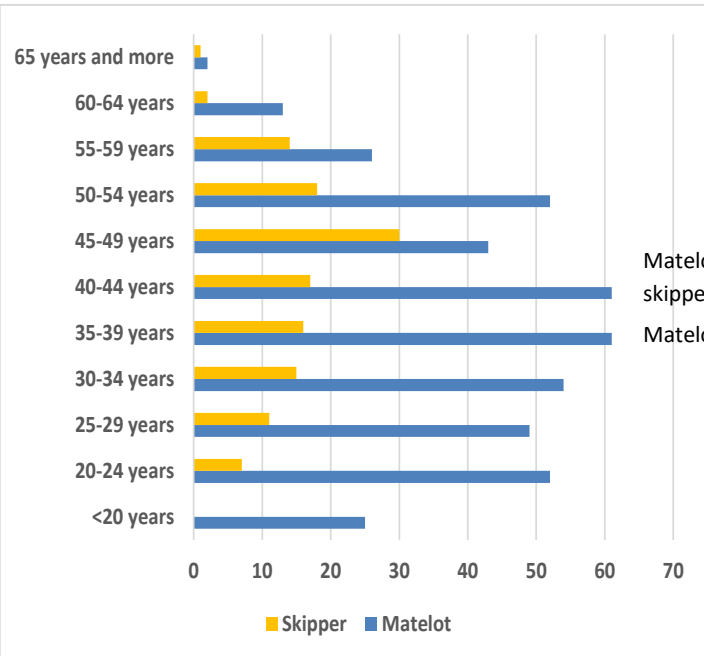
Fuel intensity = quantity of fish landed per quantity of fuel consumed (kg/litre) or could be also expressed as (litre/tonne)

Gross Value Added margin and crew cost per fisher (DRB - Dredgers)



➤ Increased attractiveness of the scallop fisheries

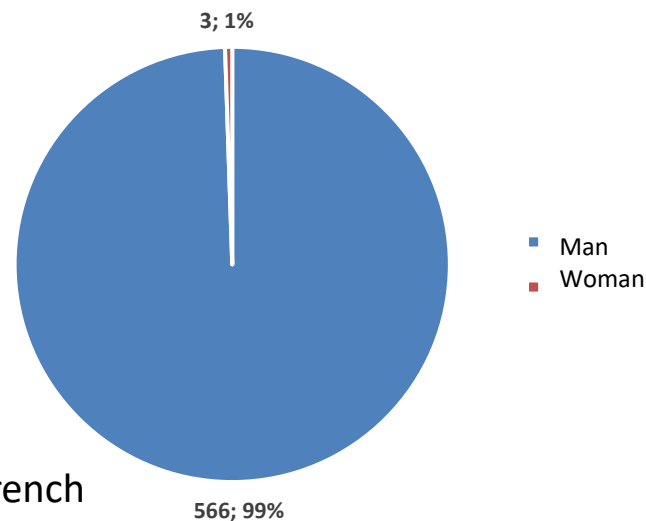
Age structure of crew members (2022)



Matelot or equivalent foreign: 43.7 years old
 skippers or equivalent 42.5 years old
 Matelot or equivalent : 37.8 years old

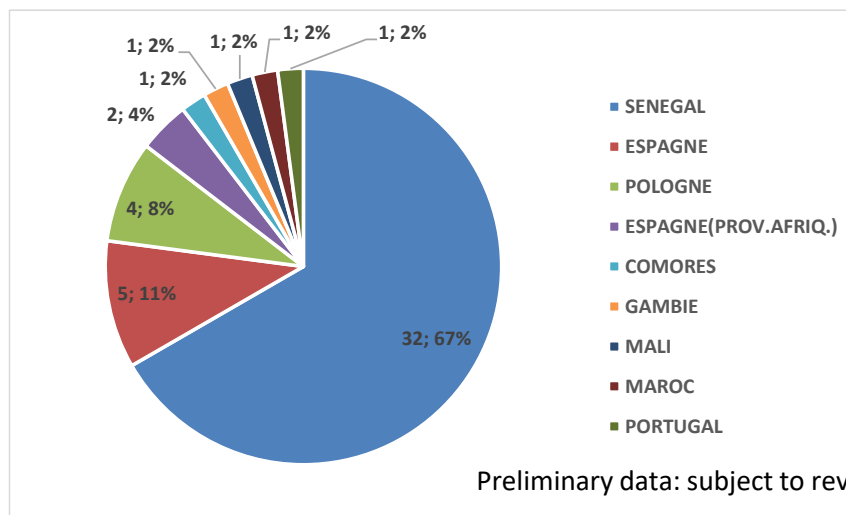
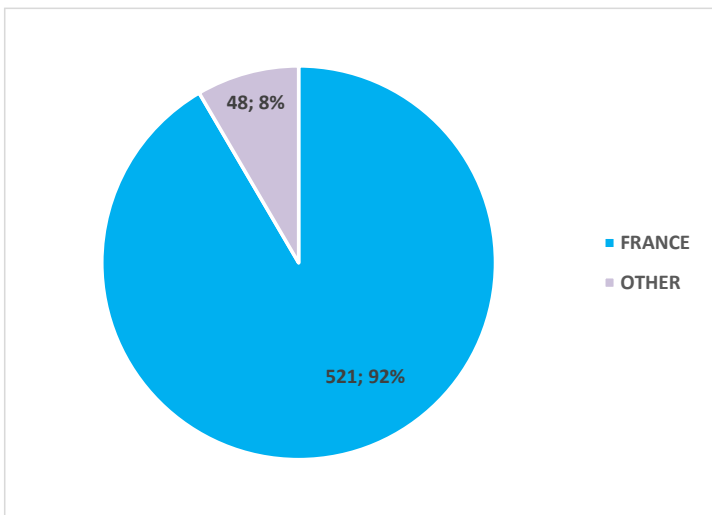
DRB - Dredgers

Sex of crew members (2022)

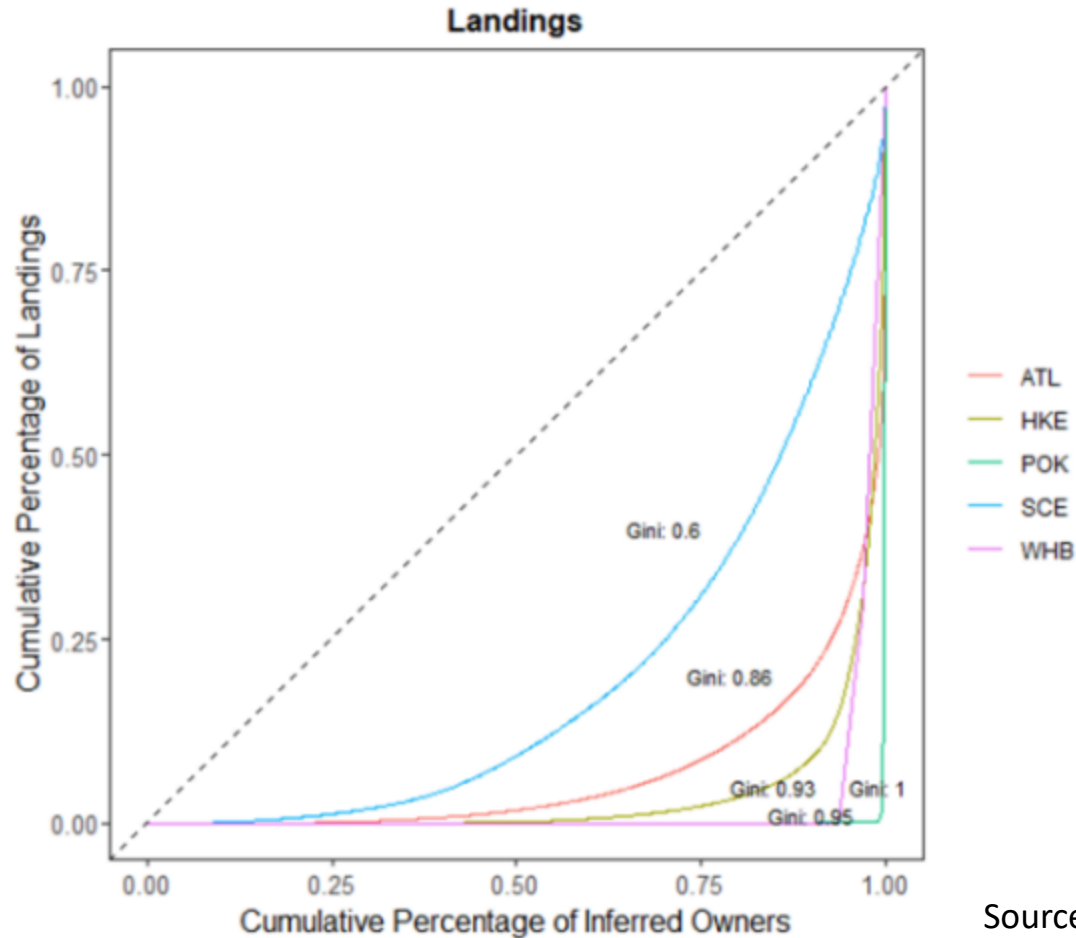


➤ Quite young fishers compared to other french fleets

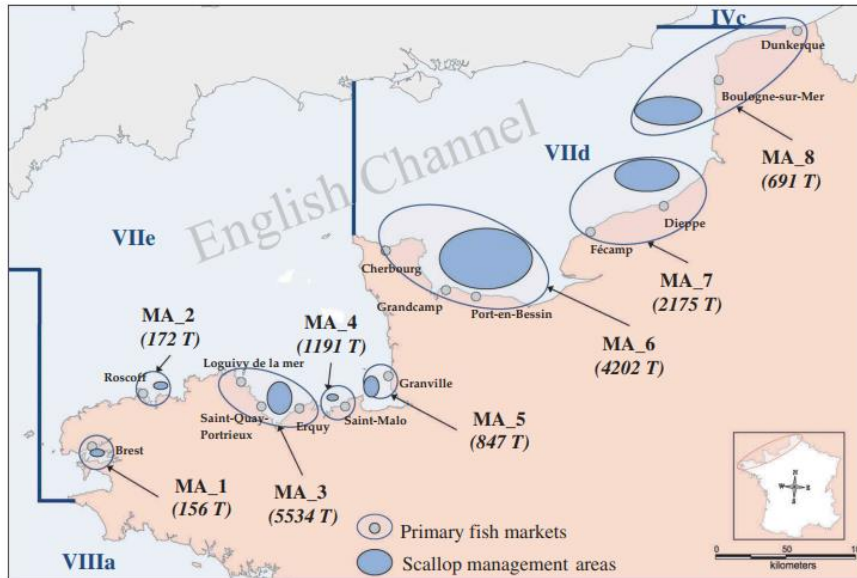
Nationality



Concentration of landings per inferred owner : Lorenz curve and gini Index



- Less concentration in French scallop species than other species in North Atlantic



Mechanisms of price formation at first sale at auction halls by management areas

Figure 1. Scallop management areas and primary fish markets locations. *Source:* Authors based on the map of French Scallop Fisheries (<http://aquaculture-aquablog.blogspot.fr>) and IFREMER-SIH data. *Note:* Data in brackets indicate the tonnage of scallops produced in each management area (MA) in 2012.

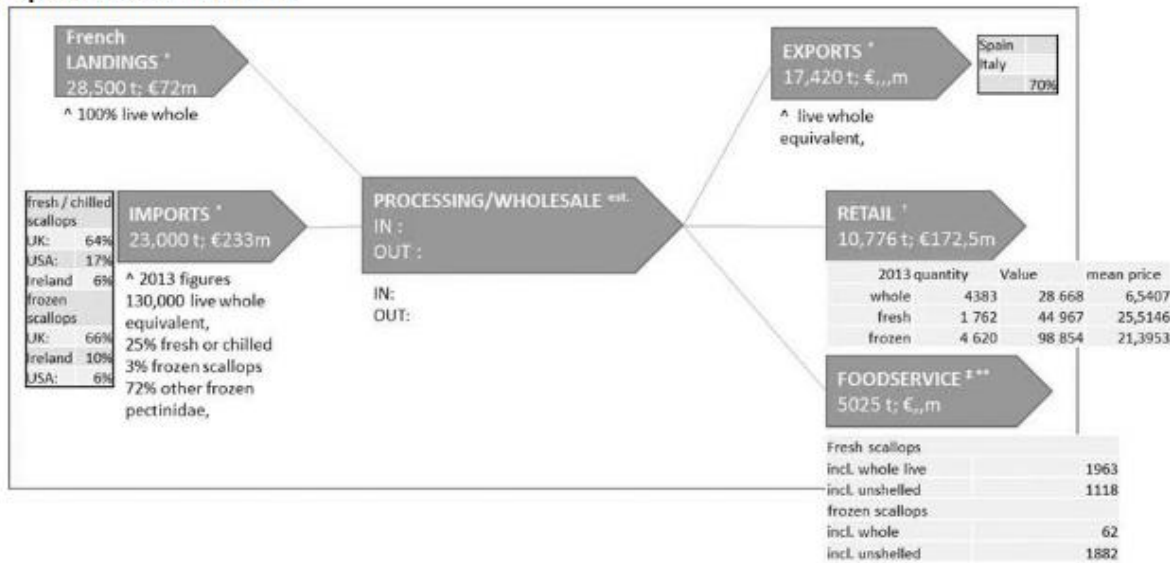
		MA_1	MA_2	MA_3	MA_4	MA_5	MA_6	MA_7	MA_8	
Annual production (tons)		156	172	5534	1191	847	4200	2180	691	
Average price (€/kg)		3.9	2.7	2.1	2.2	2.3	2.4	2.5	2.9	
Number of sellers ^a		63	18	199	38	27	126	64	26	
Vessels length (average)		9	12	11	12	14	14	16	17	
Vessels engine power (average)		87	143	132	157	215	225	260	310	
Nb of days with transactions		87	61	133	135	145	154	164	149	
Nb of buyers		44	54	191	19	56	70	59	69	
Type of buyers	Fishmongers	Nb. (%)	64.1	69.2	43.5	57.9	45.3	53.0	40.7	45.6
		% an. vol	76.6	66.5	54.3	45.2	46.6	68.3	74.4	62.5
	Fish merchants	Nb. (%)	25.6	9.6	43.5	21.1	37.7	34.8	39.0	45.6
		% an. vol	6.9	12.0	5.2	16.6	27.5	10.5	7.4	20.4
	Processors	Nb. (%)	2.6	11.5	4.3	-	9.4	6.1	8.5	4.4
		% an. vol	0.4	5.3	40.0	-	23.6	16.3	14.0	8.8
	Other	Nb. (%)	2.6	3.8	2.2	15.8	3.8	3.0	5.1	4.4
		% an. vol	14.1	3.9	0.0	35.3	0.9	0.3	3.7	8.3
	Supermarkets	Nb. (%)	2.6	5.8	6.5	5.3	-	-	6.8	-
		% an. vol	0.7	12.3	0.4	2.9	-	-	0.5	-
	Nonspecialized wholesalers	Nb. (%)	2.6	-	-	-	3.8	3.0	-	-
		% an. vol	1.2	-	-	-	1.5	4.7	-	-

- Processing and direct sales probably underestimated
- Interconnexion between auctions auctions

Source : G. Lesur-Irichabeau, O. Guyader, M. Frésard, C. Leroy, K. Latouche & L. Le Grel (2015): Information on sellers and buyers characteristics: added value to explain price formation at primary fish markets in managed French scallop fisheries, Applied Economics, DOI: 10.1080/00036846.2015.1114576

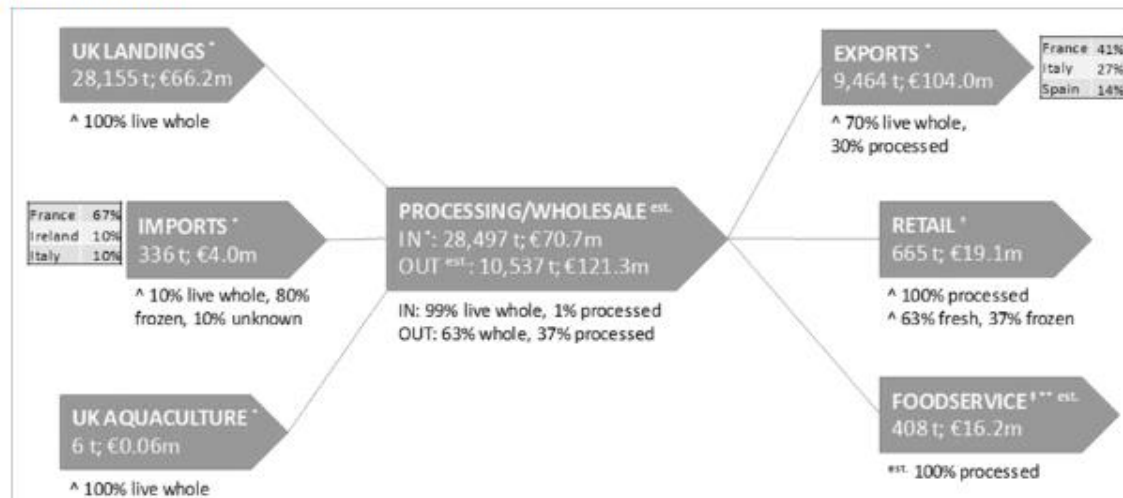
Note: ^a We refer also to the vessel or to the fisher to designate 'seller'.

Scallop value chain in France



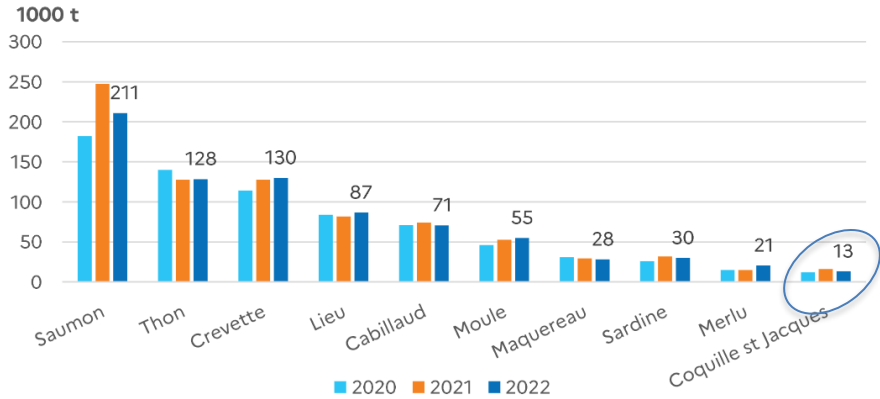
- 130-180 tonnes consumed per year in live weight equivalent
- Different species

Scallop value chain in UK

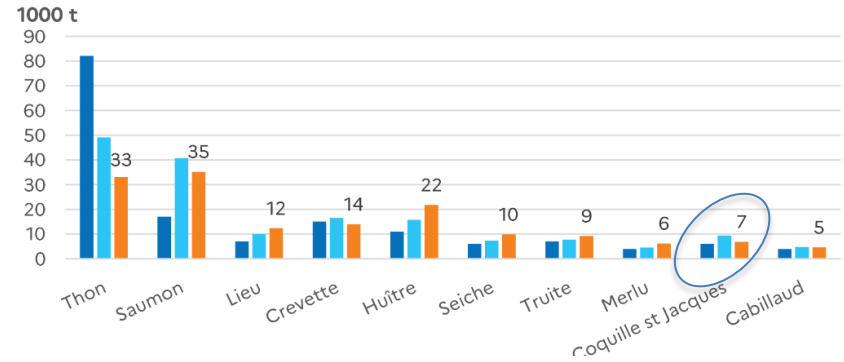


Source: Odriozola & al. 2017
Scallop value chain in France, UK and Spain. Success project

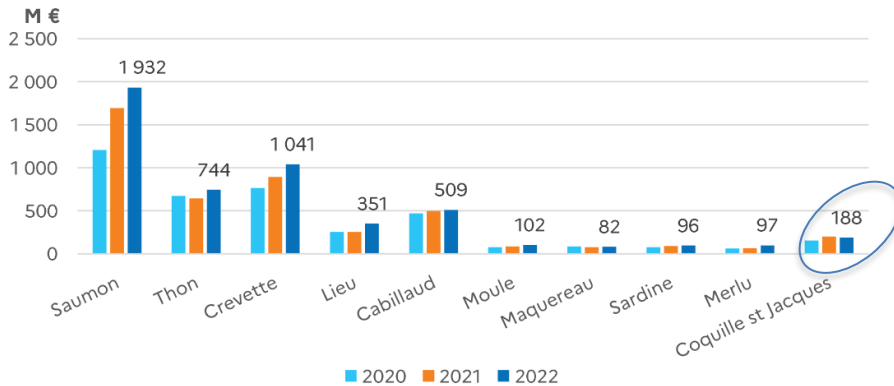
Imports in thousand tonnes



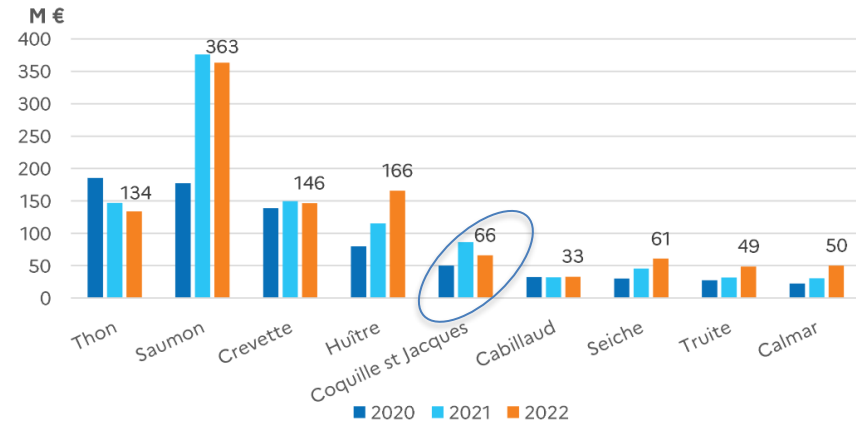
Exports in thousand tonnes



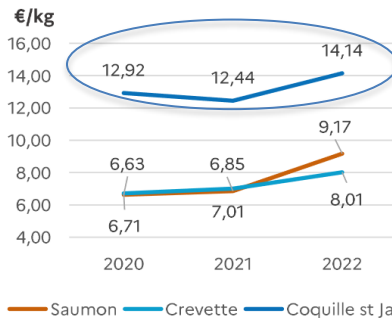
Imports in EUR million



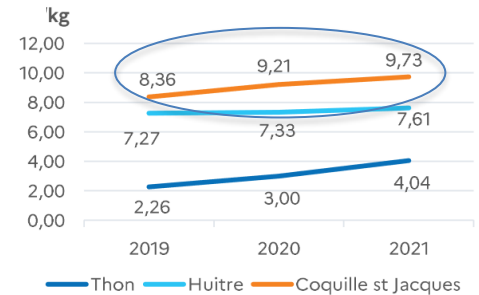
Exports in EUR million



Imports average price (€/kg)



Export average price (€/kg)



Source: France Agrimer 2022

Thanks for your attention