



### This session:

### Reading and interpreting Seafish statistics

- Economic data for fisheries management
- Data collection how we do it
- Outputs evidence bases what they mean
- Bespoke analyses, Economic Impact Assessments

### Economics of sustainable fishing

- How do you understand sustainability?
- Reference points
- Economics and political choice
- Trade-offs

# Reading and interpreting the Seafish statistics



### **Economic Data collection**



## **QUAY ISSUES**



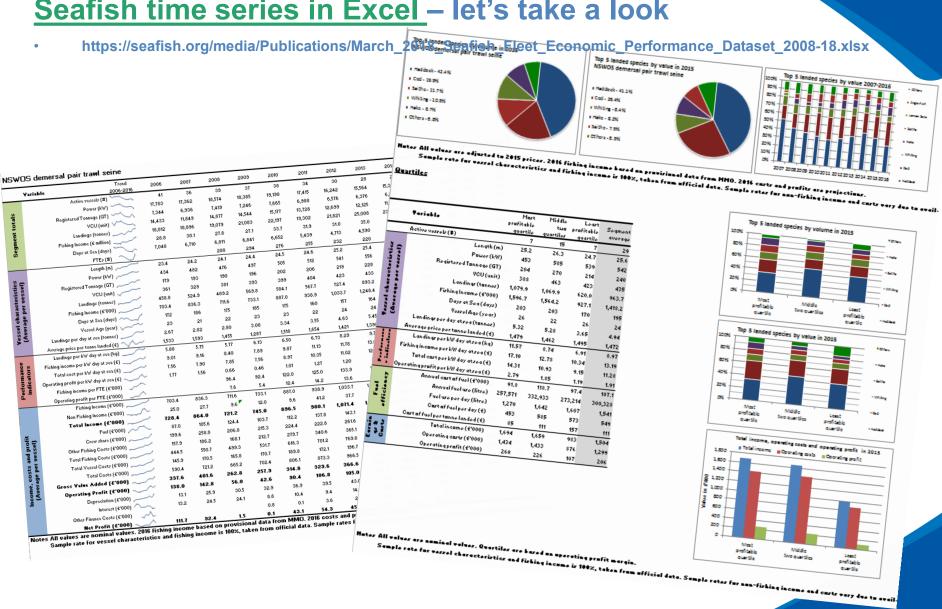


- DCF EU Data Collection Framework
- MMO / Marine Scotland / IFISH database
- Seafish data collection
  - Review and discuss Seafish survey form for economic data

Interviewer: Date:	
	SEAFISH
Location:	the authority on seafood
	Fishing Vessel Accounts Permission Form
	I fisheries departments need accurate information on fleet economics to contribute to better nt and be able to assess the impact of management measures on the fishing fleet.
To provide this essential information	<ul> <li>seafish conducts surveys to report on the financial performance of all major segments of the UK fishing fleet.</li> </ul>
So that we get enough accurate info	ormation, it would help if you supply your year-end accounts. In return, we can offer a personal benchmark report for your vessel.
	onymously, for Seafish reports and in contribution to fisheries economics working groups in ere publish averages and other aggregated figures and no individual vessel will be identified in any of our outputs.
	y and the purpose of this survey is not to record illegal activity, however as an arm's length y, we are required to pass any notice of illegal activity to the relevant bodies.
VESSEL AND OWNER DETAILS	
Vessel Name:	Vessel PLN: Vessel Length:
Vessel Owner Name (print): _	
Vessel Skipper Name (print): _	
Tel no. of vessel owner:	E-mail of vessel owner:
FUEL CONSUMPTION – we wa	ant to estimate litres of fuel per day at sea for your vessel
1. How much fuel do you use	per day? litres/gallons
2. How many trips (a trip = on	e landing) did your vessel make in 2015?
3. How many days at sea was	your average trip?
CREW – we want to estimate	the number of full time equivalent jobs on board your vessel
4. How many on-board jobs, in	ncluding skipper, did your vessel support in 2015?
4a. Full Time (over 37 hours p	er week) 4b. Part time
5. Did you employ any foreign	crew in 2015? Yes / No 5a. If Yes, how many?
5b. Which countries did any fo	oreign crew come from?
6. How many workers, includi	ng skipper, were on board per trip?
7. On <u>average</u> , how many hou	rs per day did each crew member work?
VESSEL – we want to estimate	e the capital value of the UK fleet, starting with your vessel
8. What year did you purchase	e this vessel? 8a. How much did you pay for the vessel? £
9. Was the vessel new or seco	nd hand when you purchased it? New / Second hand
10. What is the insured / bala	nce sheet value of your vessel? £
11 Did you make any investment	ent in your vessel in 2015, e.g. New engine, bulbous bow, etc.? Yes / No
11. Did you make any investm	ient in your vesser in 2013, e.g. New engine, builbous bow, etc.: 1es/140

QUOTA & FISHING RIGHTS	
13. Please estimate the value of your qu	uota units at the end of 2015 £
14. Please estimate the value of your ve	essel licence (inc. entitlements) £
GENERAL	
15. Currently, what are the major factors aff	fecting the financial performance of your fishing business?
16. What are your expectations/ambitions for	or your fishing business over the next few years?
10. What are your expectations/amortons in	or your maring bearings over the next lew years.
17. Did your vessel take part in any income g	generating activities other than fishing in 2015? If yes, what?
Some of the data for this	survey is gathered from financial year end accounts.
All information obtained will	be treated in strict confidence in line with Seafish policy.
	permission for Seafish to obtain from my accountant my complete e next three financial years (until 2018/2019).
Signature:	Print Name:
OR	
	permission for Seafish to obtain from my accountant my complete
financial accounts for 2015/2016.	
Signature:	Print Name:
ACCOUNTANT CONTACT DETAILS:	
Name of Accountancy firm:	Contact name:
Accountant Address:	Accountant Tel:
	Accountant Email:
Would you like to receive the following?	To receive these outputs, please provide full postal address:
Personal vessel benchmark report:	
2015 Economic report (email):	
Quay Issues Magazine:	

## Seafish time series in Excel – let's take a look





### STECF Annual Economic Report

■ 2008 ■ 2009 ■ 2010 ■ 2011 ■ 2012 ■ 2013 ■ 2014 ■ 2015 ■ 2016 ■ 2017 ■ 2018 ■ 2019

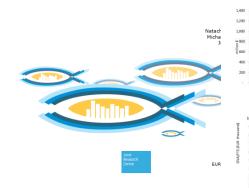
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019



JRC SCIENCE FOR POLICY REPORT

Scientific, Technical and Economic Committee for Fisheries (STECF)

The 2019 Annual Economic Report on the EU Fishing Fleet (STECF 19-06)



## Data dissemination tool STECF Home News and Communications Meetings Final Reports Data Dissemination Abo

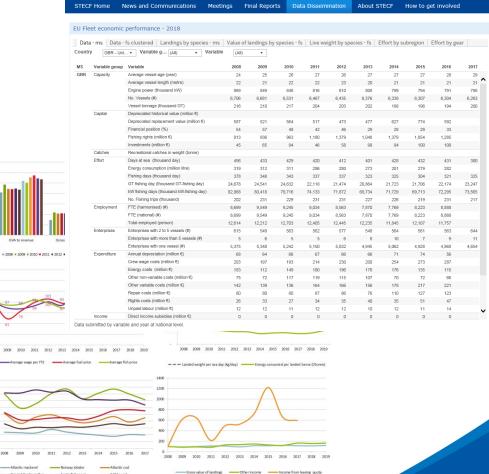


Figure 5.23 United Kingdom: Main trends in economic performance indicators (absolute value, panel 1a/top left and relative value, (panel 1b/top middle); cost structure (panel 1c, top right); productivity (panel 2a); key input/outputs (panel 2b); efficiency (panel 2c); landings (panel 3a); average price (EUR /kg) of top species (panel 3b) and incomes (panel 3c). Nowcast figures for 2018 and 2019

### Seafish single year reports



Economics of the UK Fishing Fleet 2018

Table 1. Fleet size, activity, fishing income (nominal figures) and main stocks, 2017–201

Segment	Number of vessels				Average days at sea				Average fishing income (£'000)			
	2017		2018		2017		2018		2017		2018	
Area VIIA demersal trawl	14	4	10	4	139	1	129	4	302	1	328	1
Area VIIA nephrops over 250kW	30	4	31		137	•	145	1	294	1	268	4
Area VIIA nephrops under 250kW	36	Ψ	33	4	126	4	136	1	160	•	173	1
Area VIIBCDEFGHK 24-40m	13	1	13	•	254	4	243		1,522	4	1,523	٠
Area VIIBCDEFGHK trawlers 10-24m	61	۰	58	•	162	•	147	4	263	1	194	4
North Sea beam trawl over 300kW	9		7	4	190	4	240	^	1,482	4	1,660	1
North Sea beam trawl under 300kW	20	ψ	21	1	104		103		96	+	105	1
North Sea nephrops over 300kW	53	1	42	4	204	•	193	+	713	1	610	1
North Sea nephrops under 300kW	70	^	62	4	127	4	123		181	4	180	•
NSWOS demersal over 24m	43		44	•	195	4	224	^	2,098	1	2,187	•
NSWOS demersal pair trawl seine	25		25	•	193	•	221	1	1,993	1	1,913	•
NSWOS demersal seiners	17	1	15	1	159		158	٠	1,361	1	1,395	4
NSWOS demersal under 24m over 300kW	37	1	45	1	180	4	202	1	1,110	1	1,038	,
NSWOS demersal under 24m under 300kW	18	1	19	1	87	4	110	^	243	4	311	1
South West beamers over 250kW	26	1	26	•	226	1	209	4	989	1	943	•
South West beamers under 250kW	22	•	25	1	228	•	219		740	1	648	7
UK scallop dredge over 15m	89		81	4	172	4	173		494	•	497	•
UK scallop dredge under 15m	208	^	204	•	94	4	94		142	4	141	•
Under 10m demersal trawl/seine	174	4	153	4	88	+	88		77	1	75	•
Under 10m drift and/or fixed nets	184	+	209	1	83		77	4	43		44	•
Under 10m pots and traps	1,155	$\uparrow$	1,113	•	86	4	82		59	۰	63	1
Under 10m using hooks	235	1	204	4	59	4	58	٠	36	4	39	1
WOS nephrops over 250kW	43	4	30	4	179	۰	174	٠	330	4	290	4
WOS nephrops under 250kW	75	ψ	62	4	150	Ψ	153	•	175	۰	173	•
Gill netters	30	٠	26	4	160	ψ	168	•	466	4	527	1
Longliners	28	1	30	1	176	•	177		657	4	472	4
Pots and traps 10-12m	176	٠	184		151	ψ	148	•	144	•	158	1
Pots and traps over 12m	92	٠	98	1	193	•	189		491	1	546	1
Miscellaneous	20	1	23	1	161	1	125	4	2,618	1	2,034	7
Low activity over 10m	47	Ψ	42	4	24	1	23	•	4	•	5	1
Low activity under 10m	1,633	٠	1,552	•	19	ψ	19	•	3	•	3	•
Pelagic over 40m	26	0	25		68	•	74	^	9.397		10.829	1

#### Trend:

- Indicates a change in the range of +/-5% compared to previous year
   Indicates a increase of >5% compared to previous year







### **Bespoke analyses**



Edited by Dominic Rihan & Hendrik Doerner

SEAFISH



### How we give advice

- STECF
- Government working groups, projects, meetings
- Enquiries, presentations, conferences
- Industry meetings, workshops, discussions
- Ad-hoc enquiry service

### Informing decisions

- Evidence
- Expert advice on "how to achieve..."
- Expert advice on "what would happen if..."
- Not advising what "should" be done

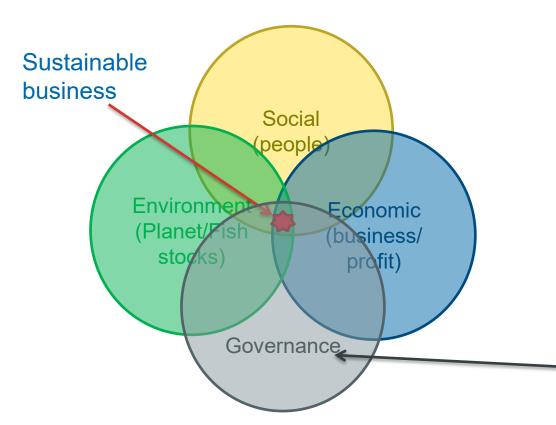


# Economics of sustainable fishing



## How do you understand sustainability?

### **Spheres of sustainability:**



### sustainability

noun

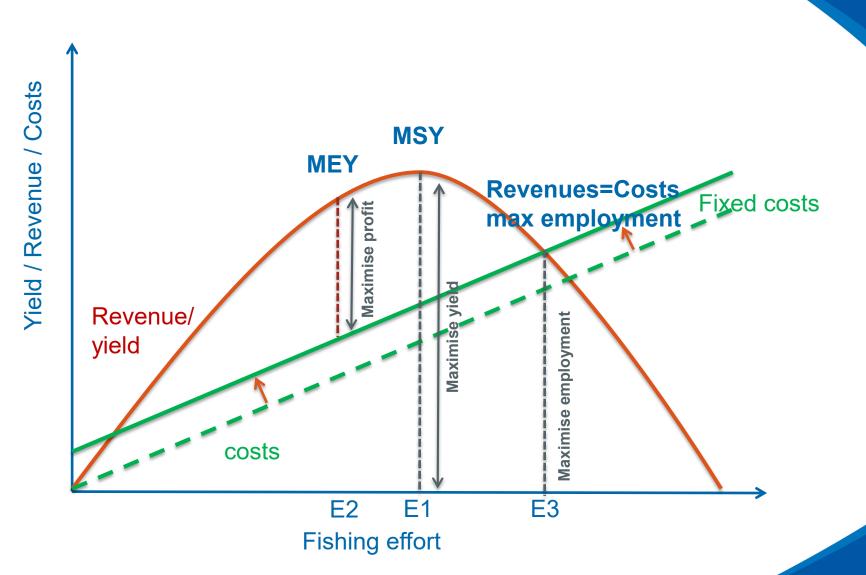
1.the use of natural products and energy in a way that does not harm the environment

2.the ability to continue or be continued for a long time.

Oxford dictionary

In fishing sector governance is an important component to ensure sustainability and create link between resource status, science and business.

### Reference points





### Simple trade-offs

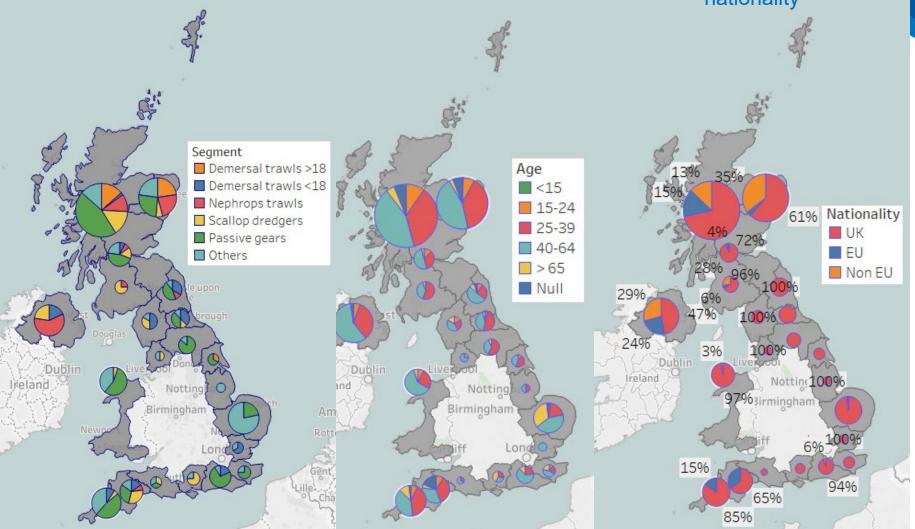
Employment vs Profit
Revenues vs Resource sustainability
Today vs Tomorrow;
Open access vs Quota allocation

### Are we all the same?

Sample, number of vessels

Sample, Age profiles seafish

Sample, number of employees nationality



Source: UK social pilot survey





Society's desired benefits

Management measures

Fishing businesses

Business decisions

Strategic / investment
Build a boat?
Buy a boat?
How big?
For what type of fishing?

Buy or lease fishing rights?

Tactical decisions
Where to fish / land
When to fish / land
What gear to use
Compliance with rules
Crew training

### **Outcomes**

Jobs, profits (losses), revenues, food, fish stocks, social justice, communities



### **Incentives**



- Strategic / investment decisions
- Tactical decisions

Game about incentives!



### Recap of today's session:

- Economic data for fisheries management
- Data collection how we do it
- Outputs evidence bases what they mean
- Bespoke analyses, Economic Impact Assessments
- Economic advice in fisheries management
- Economic and sustainability principles in fisheries management
- Reference points and trade offs
- Incentives



For further details contact:

#### **Arina Motova**

**Chief Economist** 

Phone: 0131 524 8662

Email: arina.motova@seafish.co.uk

seafish.org.uk

## Thank you