

ADAPTING A FISHING FLEET TO CO NFLICTING GOALS

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Co-organized with the Republic of Korea's Ministry of Ocean in Fisheries

Norway: An Ocean Nation



NORWAY:

Population:	5.2 million
Mainland:	323 787 sq.km
Spitsbergen:	61 022 sq.km
Jan Mayen:	377 sq.km
Mainland coastline:	28 953 km
Total coastline	
(including islands):	100 915 km
Mainland EEZ:	968 700 sq.km
Spitsbergen FPZ:	804 000 sq.km
Jan Mayen FZ:	296 600 sq.km



Economic values of the Norwegian Seas

- ✓ 35 percent of GDP
 - ✓ 10 percent of employment
- ✓ 70 percent of Norwegian export



The seafood industry's share of total Norwegian exports 2016







Development share 2001-2016

Norwegian seafood exports



The leading export nations of seafood

2015



Norwegian seafood export

1988 – 2017

Our Way -"The Norwegian Management Model"

The Two Components of Fishery Management

- Fisheries management is based on two set of *measures*, which differ in aims and modalities:
 - 1. Maintaining fish stock productivity through technical measures and enforcement (output control)
 - 2. Adjusting catch capacity to stock renewal through access control or allocation of rights to fish <u>(input control)</u>
- In general, management *instruments* fall into two categories, namely regulatory instruments and economic instruments
- Norway use <u>regulatory instruments</u> coupled with strict control measures to ensure sustainability, and draw on <u>economic</u> <u>instruments</u> to enhance efficiency

Challenges

- Overall productivity growth
 - The harvest sector has to increase its productivity in order to compete with other sectors
- Technological capacity creep (est. 3% per annum)
- Limited resources
- Prices are stable

Index of the weighted average first hand real price of fish

All species 1945 - 2017

Development in income and firsthand price (indexed) Norway 1970–2016

Indicate an **increasing gap** between income generated from selling fish, and the level of wages in Norway.

Governmental financial transfer to the fishing fleet

1980 – 2017

Capacity Adjustment

- Technical capacity reduction per se is not a goal
- Economic instruments are necessary in order to:
 - facilitate productivity growth and efficiency
 - achieve better profitability
 - improve utilisation of current capacity
- Capacity adjustment is a continuous process and with the right set of incentives the industry can adapt without government intervention
- Market-like instruments provide these incentives, and ensure an industry-driven capacity adjustment

Market-like instruments in Norway

- Voluntary measures
- Flexibility
- User pays user gains
- Safe-guards
 - Cap on quota consecration
 - Transactions only within the vessel groups
 - Scrapping requirement

Current Instruments

		Management instruments to regulate the fisheries		Management instruments	
		Input	Output	to aujust hai	vest capacity
Denomination	Number of vessels*	Licence to fish	IVQ**	Buy-back programs	SQS***
Ocean-going vessels	241	X	Х		Х
Coastal vessels; 15- 28m	235	X	Х		X
Coastal vessels; 11- 15m	657	X	X		X
Coastal vessels; 0- 11m****	1170	X	X		

* 2018

** Individual Vessel Quota

***Structural Quota System

****Full time vesels

Structural Quota System – Offshore Fleet

- Structural quota; 20 years duration
- Only for vessels holding a valid license
- One vessel must be scrapped

Structural Quota System – Coastal Fleet

- Structural quota; 20 years duration
- Licensed vessels and mandatory scrapping

The Structure Quota System - Results

Vessel group	Percentage structural quotas
Purse seiners herring	18,60 %
Pelagic trawlers	54,70 %
Coastal vessels herring	39,60 %
Cod trawlers	57,00 %
Ocean going line fishing vessels for cod	57,10 %
Coastal vessels cod	22,20 %

Total number of fishing vessels

Norwegian catches versus fishermen

Norwegian catches versus fishers

Average operating margin and total operating revenues

1980-2016

Fuel consumption in the Norwegian fishing fleet

2001 – 2016

2001=100

Spawning stock biomass

Norway - From poor to rich

A transforming society absorbs the leavers --Economic growth and job creation post WW2 have given a social cost-free fisheries sector transformation

Observations & Conclusions

- Fewer vessels and fishermen is inevitable
- Subsidies will only delay the transition
- With strong output control, harvest capacity is primarily an economic issue
- Capacity adjustment is a continuous process
- The industry is able to adapt without government intervention
- Strong incentives and favorable allocation of the benefits are important conditions to succeed

The Norwegian fishing fleet

Vessels and first hand value

	Number of		Catch value	
_	vessels	%	(NOK 1000)	%
Less than 11 meters over all length	5 001	81,5 %	2 178 185	12,1 %
11-14,99 meters over all length	657	10,7 %	1 609 023	8,9 %
15-20,99 meters over all length	126	2,1 %	634 145	3,5 %
21-27,99 meters over all length	109	1,8 %	1 327 097	7,3 %
28 meters over all length and above	241	3,9 %	12 271 101	67,9 %
Undefined			44 980	0,2 %
Total	6 134	100,0 %	18 064 530	100,0 %

Gradual Change in Policy Objectives

Objectives in 1970, in order of priority:

- 1) Employment and coast rural settlement
- 2) Economic viability
- 3) Ecological sustainability

Objectives today, in order of priority:

- 1) Ecological sustainability; a prerequisite for achieving;
 - 2) Profitability without subsidies
 - 3) Contribute to employment and coast rural settlement

Objectives in 2020?

Why a Restructuring of a Successful quota system?

- Current quota system deliver, but is:
 - ➢ Complex
 - ≻ Rigid
 - The contribution from the fleet to coastal community and the society high enough?
 - What about the small-scale fleet?
- A new quota system will be presented in a white paper to the Norwegian Parliament within a year.
 - Simplifications?
 - Increased flexibility?
 - Introduction of resource rent taxation?
 - Introduction of a market like system in the small scale fleet?

당신의 따뜻한 관심에 감사드립니다

Act relating to the management of wild living marine resoucres (Marine Resources Act)

Section 1 Purpose

 The purpose of this Act is to ensure sustainable and economically profitable management of wild living marine resources and genetic material derived from them, and to promote employment and settlement in coastal communities.

• Section 2 *Rights to resources*

- Wild living marine resources belong to Norwegian society as a whole.

Resource Rent in Norway – two out of three

Norway abundant :

Water for Hydropower Oil and Gas for Energy Fish for Food

Norway taxation / extraction on the Natural resources

Hydro Power Plants:

25 % company tax, resource rent tax 33% = 58 % total tax **Petroleum Activity,.**

25 % company tax + 53 % resource rent tax = 78 % total tax **Fishing**

25% company tax + 0 % resource rent tax = 25 % total tax

		Number		Employees		ees
Vessels		6 136				
Fishermen	Main occupation Part time occupation		+	9 486 1 834	=	11 320
Processing i	ndustry Plants	431				10 560
Fish farming (All species inclu	Licences Iding shellfish and algae)	2 196				7 987
Total numb	er of emplovees					29 867