Pim Visser, executive officer VisNed

The Landing Obligation

State of play on the implementation : lessons learnt

EAPO President

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VISSERS MET TOEKOMST

europêche

Nederlandse Vissersbond

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PFA
Pelagic Freezer-trawler Association

DFV

KFO
Killybegs Fishermen's Organisation Ltd.

Północnoatlantycka Organizacja Producentów

Union des Armateurs à la Pêche de France

Comité National des Pêches CNPMEM

Pêcheurs de Bretagne

cepesca
Confederación Española de Pesca

DANISH FISHERMEN

Variety in vessel types and sizes









It’s about fishermen and their families

Supplying proteins for a growing population

Global fisheries sustainability: challenges and successes

Manuel Barange
Director
On behalf of the FAO Fisheries and Aquaculture Department

Food and Agriculture Organization of the United Nations

Rome, 18-21 November 2019

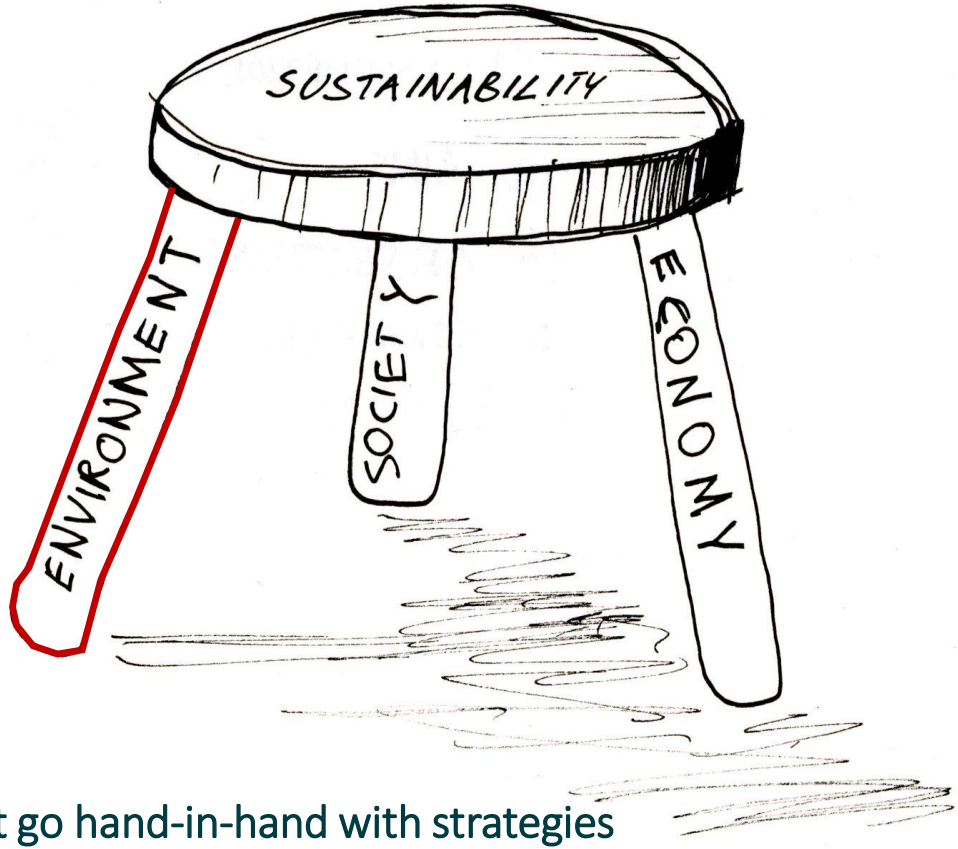
Keynote lecture
Opening ceremony

@Manu_FAO
#sustainablefisheries

International Symposium on Fisheries Sustainability:
Strengthening the Policy-Science Nexus

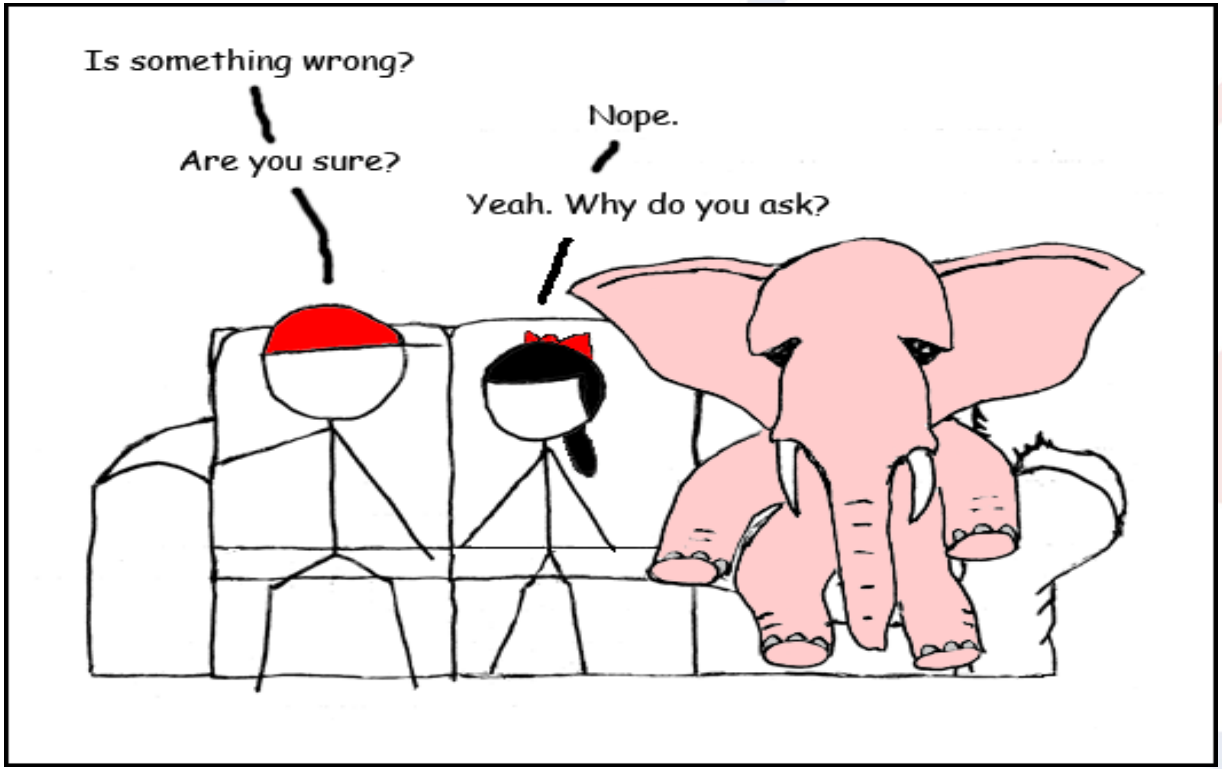
SUSTAINABILITY – A THREE LEGGED STOOL

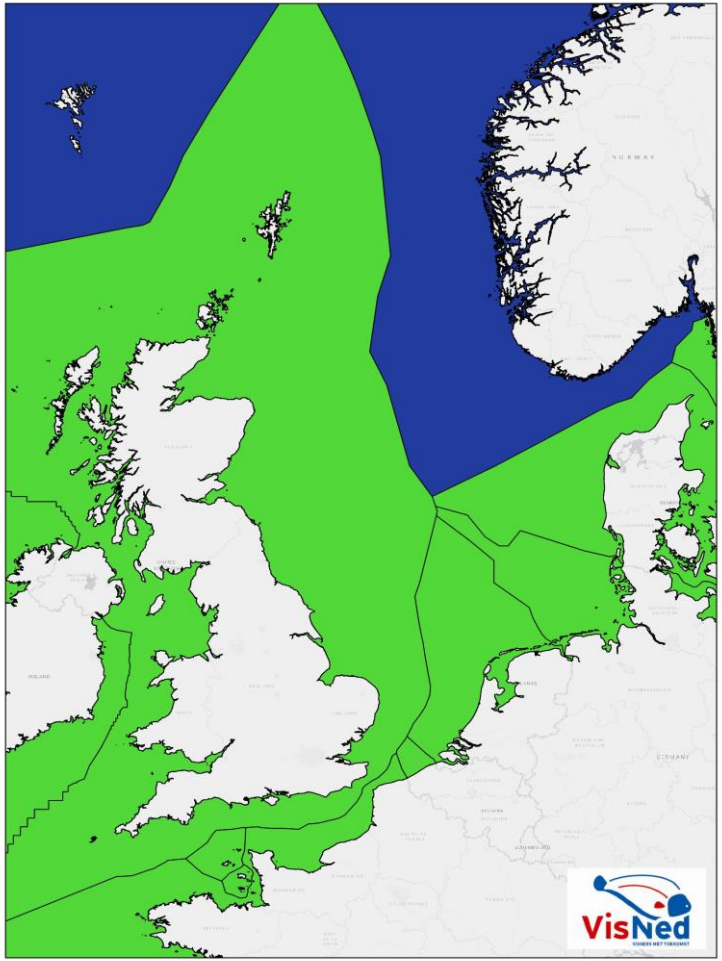
VisNed
VISSERS MET TOEKOMST



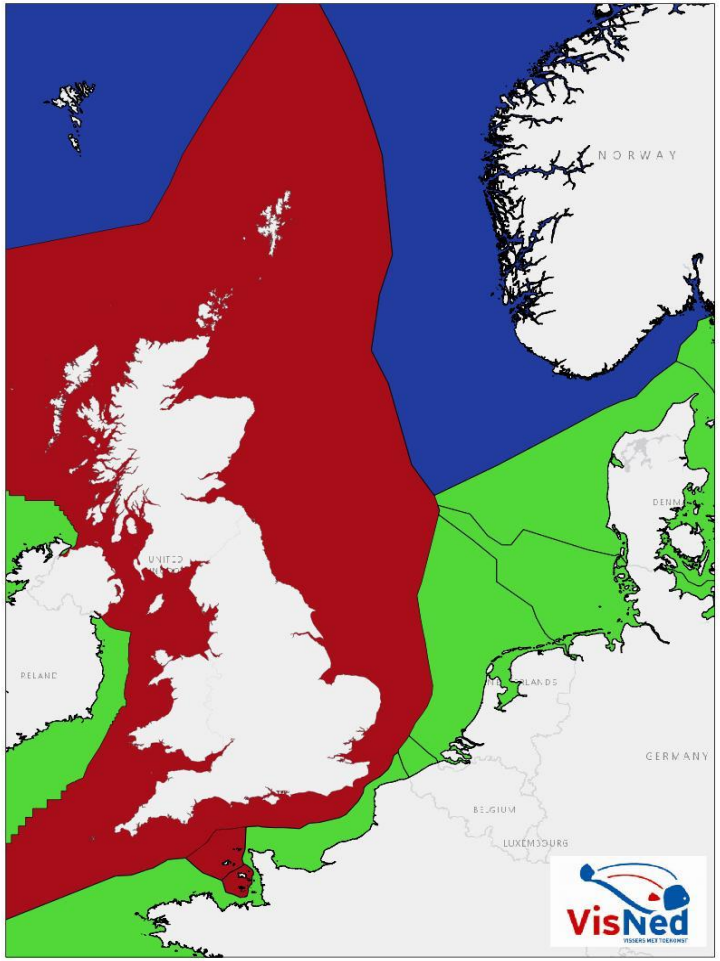
The SDGs recognize that ending poverty must go hand-in-hand with strategies that build economic growth and addresses a range of social needs

Reflecting on the near future





BREXIT



Good governance requirements

- Rules and regulations must be
  - Do-able
  - Compliable
  - Enforceable

- At present the LO rules are none of the above
  - Repression is definitely not the answer
  - Late 1980’s lessons in the Netherlands
  - FAO lessons from 2019 symposium
    - Inclusion of Fishers
    - The number of gunboats required is an indicator for policy failure

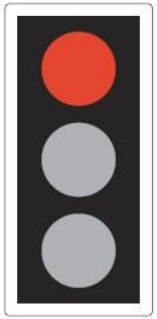
Two categories of discards

- Regulatory discards
  - Primary attention in EU, not in NL demersal
  - Choke species
- Technical discards
  - Prime attention in NL demersal, not in EU

- 2011 Economic damage in NL estimated € 7.mio
  - **Bandwidth -/- €13 mio to +/+ €2 mio**

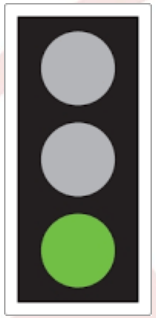
Classification of stocks

(BIM 15-11-2017 Com Symposium)



High risk - catches currently exceed the TAC with multiple Member States impacted

Moderate risk- catches are less than TAC but for some Member States catches exceed quota

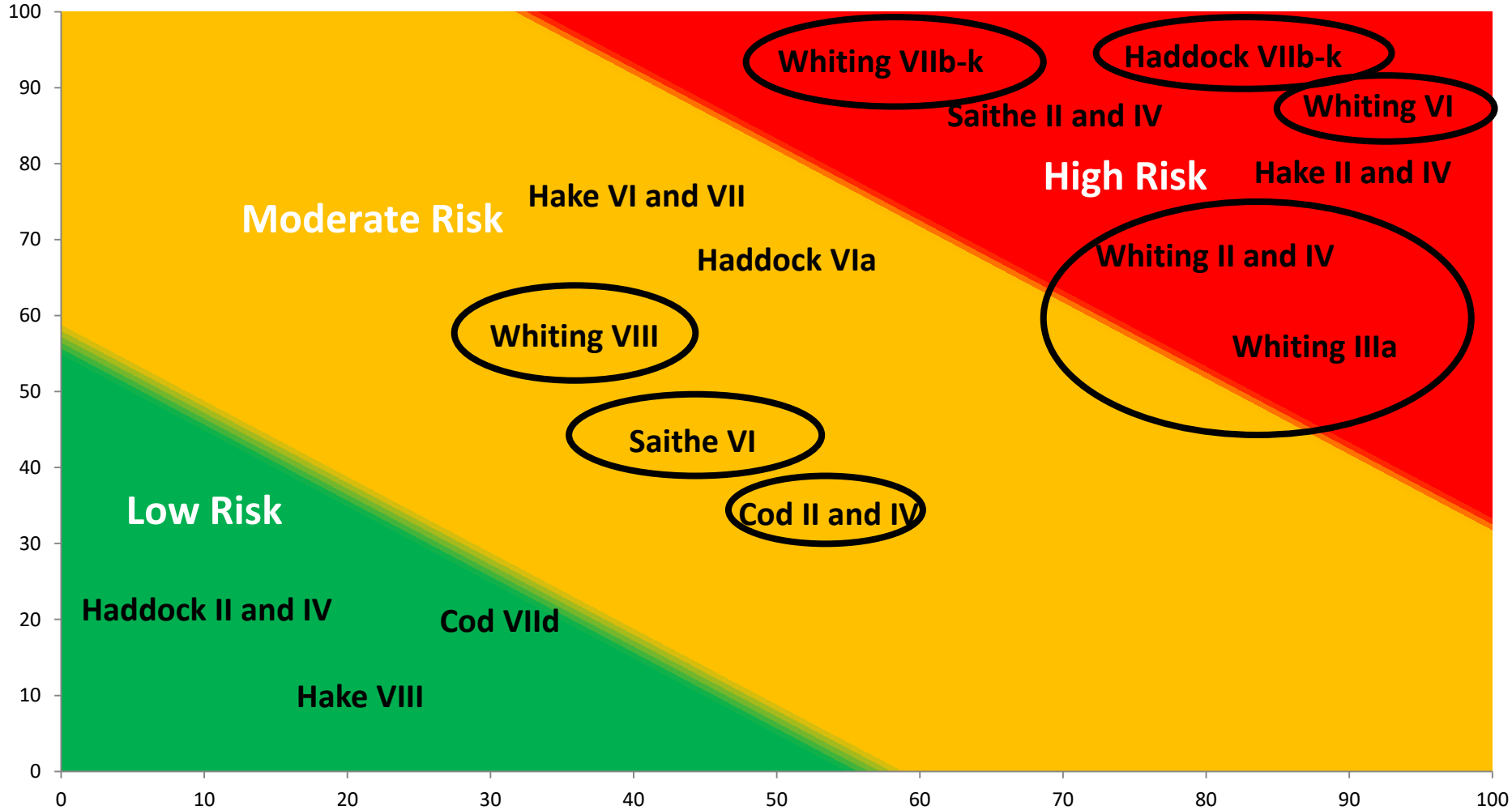


Low or no apparent risk - catches are below TAC and no Member State catches exceed quota

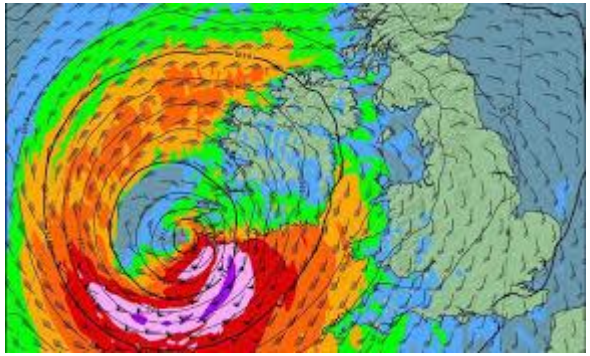
Regulatory discards

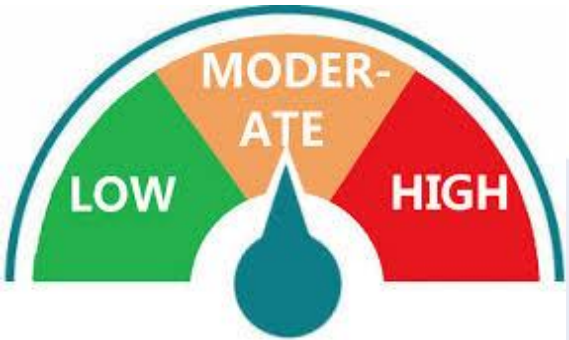
(source BIM/DG Mare/NWWAC presentation 15-11-2017)

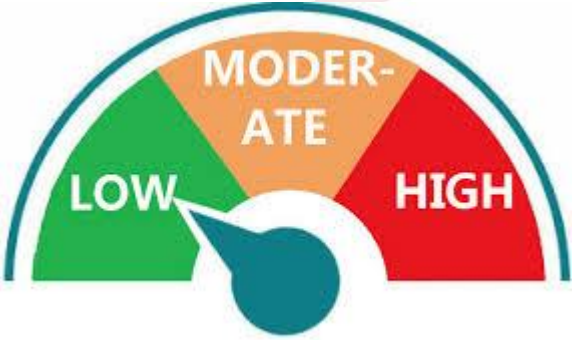
- Example: Specific choke risks demersal stocks > pelagic fisheries
  - 15 stocks
- Pelagic by-catches in demersal fisheries
  - 10 stocks
  - 4 high risk
  - 3 moderate risk
  - 3 low risk
  - Considered in more detail by the PELAC


Whiting VIIb-k
Haddock VIIb-k
Whiting VI
Saithe II and IV
High Risk
Hake II and IV
Moderate Risk
Hake VI and VII
Haddock VIa
Whiting II and IV
Whiting VIII
Whiting IIIa
Saithe VI
Cod II and IV
Low Risk
Haddock II and IV
Cod VIId
Hake VIII
100
90
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100

November 2017 Conclusions still relevant







High risk:
- 12 stocks
- 6 problematic
- 6 partially/fully solvable

Moderate risk:
- 13 stocks
- Partially/fully solvable
- 5 heavily reliant on swaps

Low or no apparent risk:
- 9 stocks
- Additional 5 stocks with low risk not evaluated

All Member States are impacted

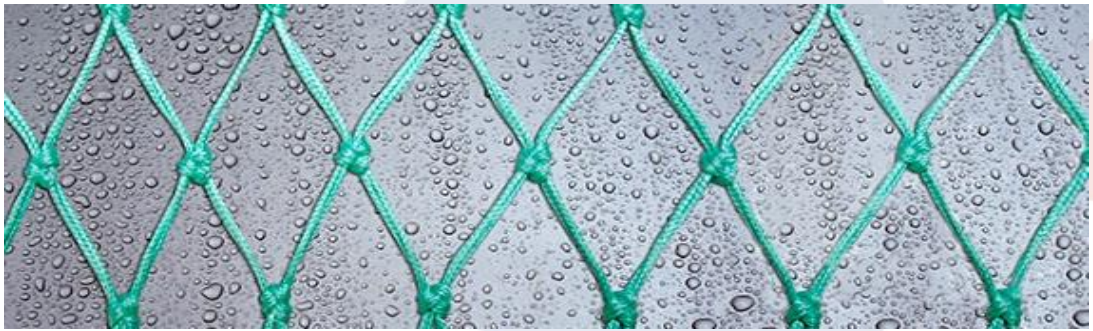
Technical Discards

Sole and other Flats : Rizla vs Cardboard

Sole

The Sole and other Flats dilemma

- To catch Sole mesh size **< 80mm**
- Escape other Flats mesh **size > 120** mm



EFF funded Projects since 2014

- Net selectivity - good progress
- Increased mesh size - not working
- Survival - very hopeful
- Making most of discards only - fishmeal
- Registration/image recognition - ongoing

- Best Practices
  - Total economic damage NL now estimated ≈ € 26,5mio
  - Excluding cost of closing fisheries due to choking quota

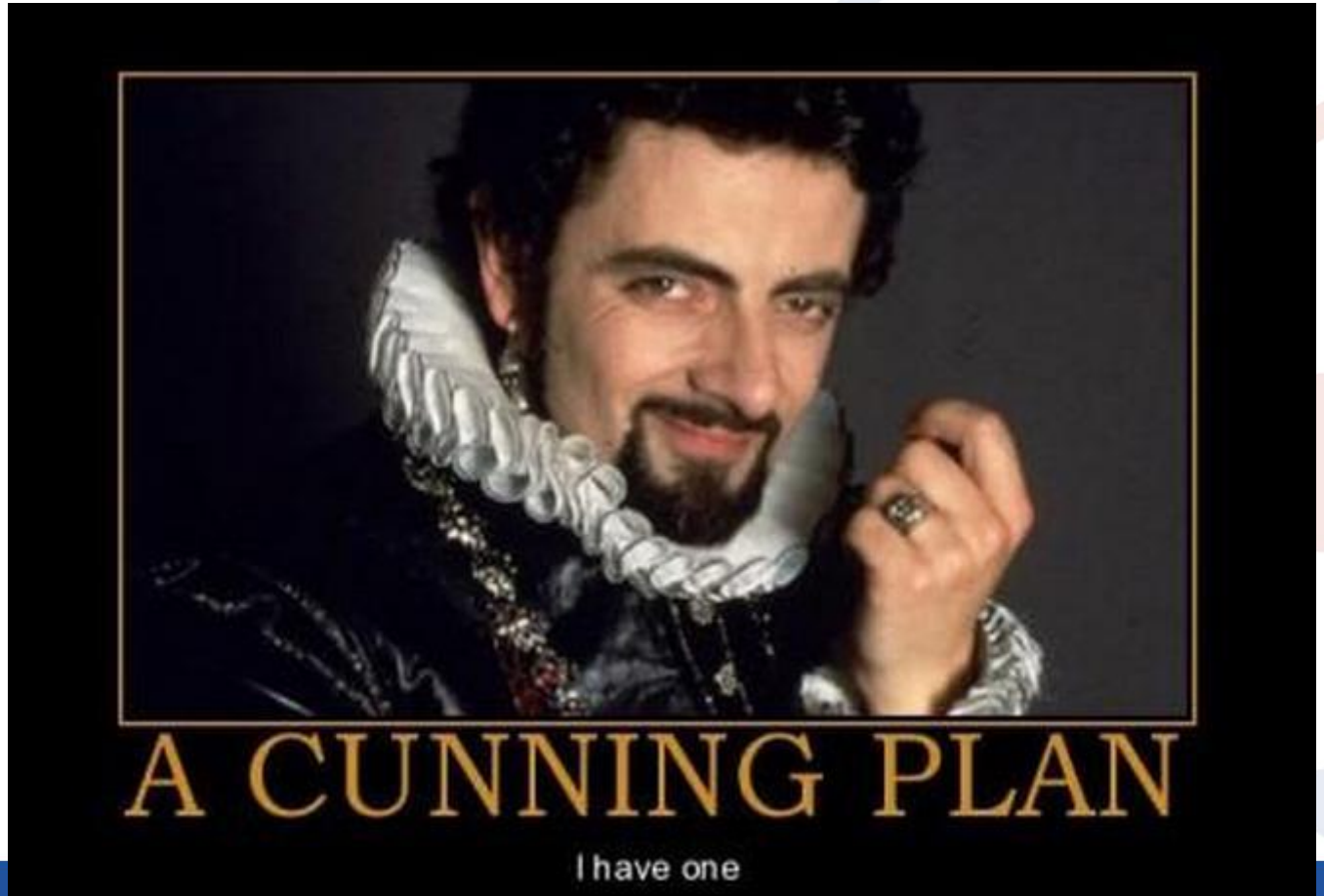
Lessons learnt so far

- Landing Obligation is here to stay
  - But in what form or shape?
  - Due to exemptions only the tip of the Iceberg is showing
- Paradigm shift for all involved
  - Too much Too fast
  - It is essential to get fishers alongside
- Prevent disaster in 2022
  - Autopilot implementation will lead to collision
  - Simple choice: sensible mitigation or full stop

New EU Clothes for the Commissioner

We need to stop

Are we able and willing to develop

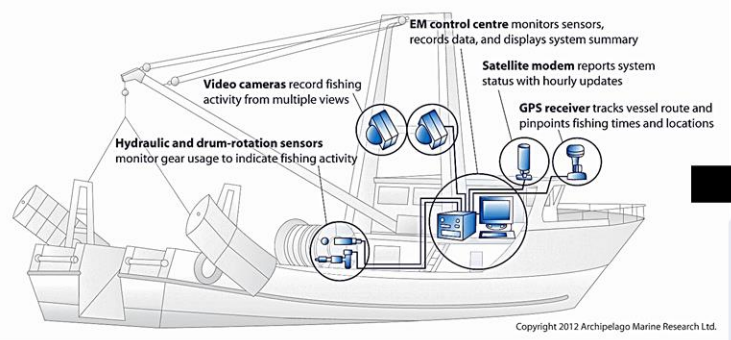


a joint search for Discardsban which is

Doable Compliable Enforceable

leading to a ‘three legged’ stool for ustainable fisheries

FDF – EM not as control mechanism



EM used as check

trek	datum	tijd uitzet	lat	long	tijd halen	afstand (Nm)	kabeljauwvangst in aantallen 1 (>88cm)	2 (72-88cm)	3 (55-72cm)	4 (46-55cm)	5 (35-46cm)	discards (<35cm)
1	10/19/2011	8:00	51.25	3.07	11:45	13	2	10	18	2		
2	10/20/2011	8:30	51.3	3.1	14:30	20	4	14	16	1		
3	10/21/2011	15:00	51.33	3.12	21:00	20	1	20	90	30	5	1
4	10/22/2011	21:15	51.3	3.12	3:00	21	3	11	26	1		
5	10/23/2011	4:00	51.22	3	9:00	19	10	14	20	12	3	2
6	10/24/2011	9:30	51.3	3.1	15:00	18	2	10	20	2	1	
7	10/25/2011	15:15	51.23	3.01	20:15	17	2	19	11	6	2	
8	10/26/2011	3:15	52	4.08	8:15	20		2	33	22	19	6
9	10/27/2011	8:30	52.05	4.09	13:30	18	4	21	46	14	4	3
10												
11												
12												
13												
14												

Fully documented - Video monitoring

Manual review

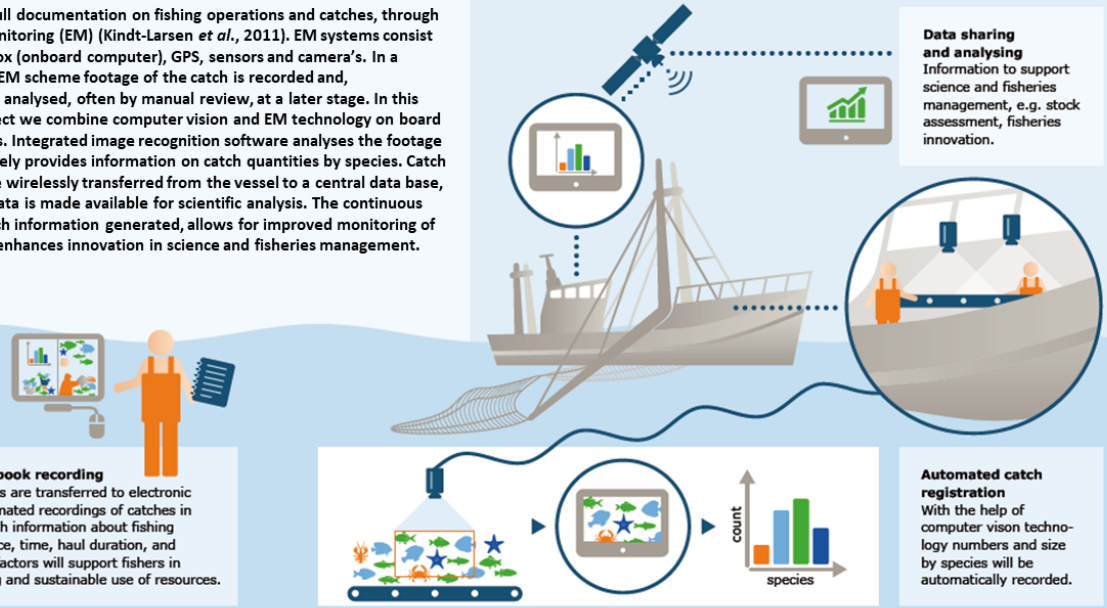
On board observers

Fully Documented Fisheries (FDF)

Can we create an automated video-based monitoring system?

Co-funded by the European Union

FDF provide full documentation on fishing operations and catches, through Electronic Monitoring (EM) (Kindt-Larsen *et al.*, 2011). EM systems consist of a control box (onboard computer), GPS, sensors and camera's. In a conventional EM scheme footage of the catch is recorded and, subsequently, analysed, often by manual review, at a later stage. In this research project we combine computer vision and EM technology on board fishing vessels. Integrated image recognition software analyses the footage and immediately provides information on catch quantities by species. Catch recordings are wirelessly transferred from the vessel to a central data base, from where data is made available for scientific analysis. The continuous stream of catch information generated, allows for improved monitoring of fisheries and enhances innovation in science and fisheries management.



Data sharing and analysing
Information to support science and fisheries management, e.g. stock assessment, fisheries innovation.

Electronic logbook recording
Catch recordings are transferred to electronic logbooks. Automated recordings of catches in combination with information about fishing activity, i.e. place, time, haul duration, and environmental factors will support fishers in decision making and sustainable use of resources.

Automated catch registration
With the help of computer vison technology numbers and size by species will be automatically recorded.

WAGENINGEN UNIVERSITY & RESEARCH

VisNed

Anchor Lab

Source: Kindt-Larsen, L., Kirkegaard, E. and Dalskov, J. (2011) Fully documented fishery: a tool to support a catch quota management system. ICES Journal of Marine Science 68, 1606–1610.

Pim Visser, executive officer VisNed

The Landing Obligation

Are we willing and are we able to learn?
The 2022 revision is our joint chance!

EAPO President