The need for social science in fisheries management and research

#CFRN_AGM5

17 November 2015, Marloes Kraan









Structure of the talk

- Why social science is (should be) a crucial part of fisheries management & research
- How it can be more integrated
- GAP2 case on discards why perceptions are so important.
- Conclusions









Fisheries science and management

- Fisheries science:
- research for fisheries management
 - Fish stocks
 - Ecosystem
 - Economy
 - Social science

- Fisheries management:
- managing ...
- what...?

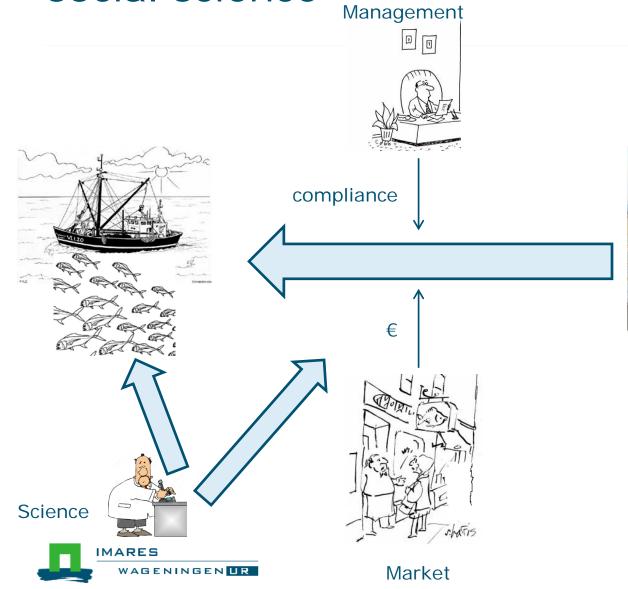




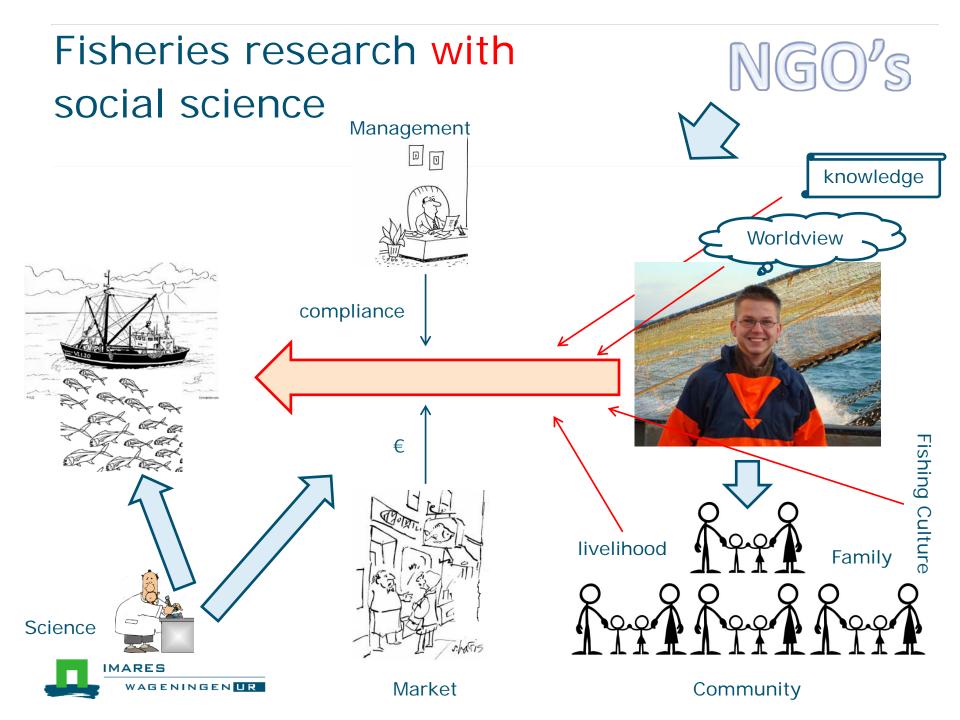
Fisheries research without social science

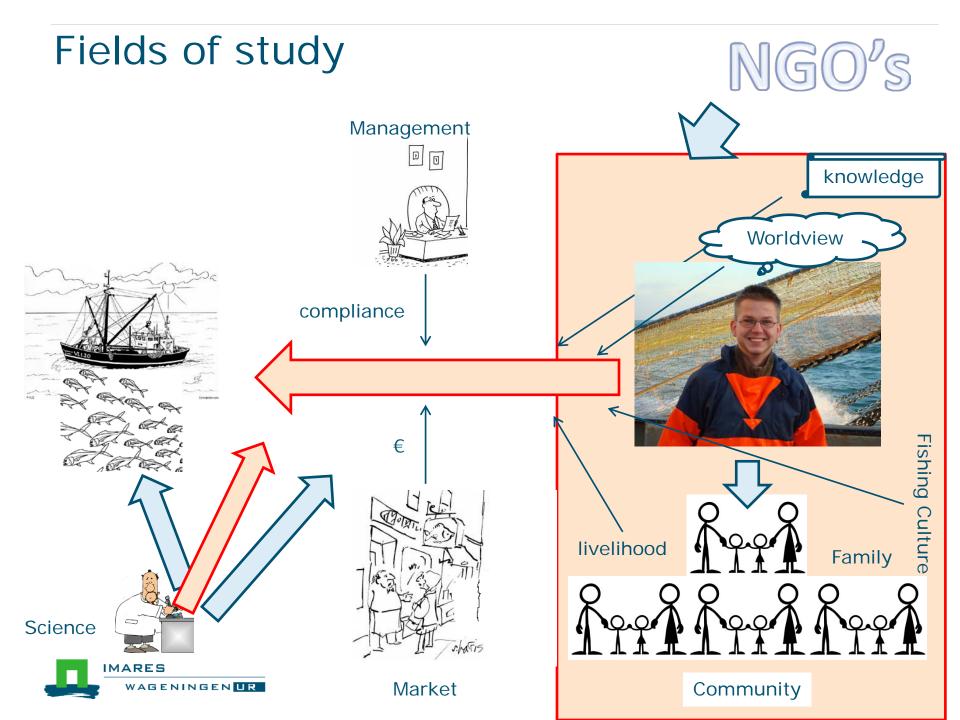


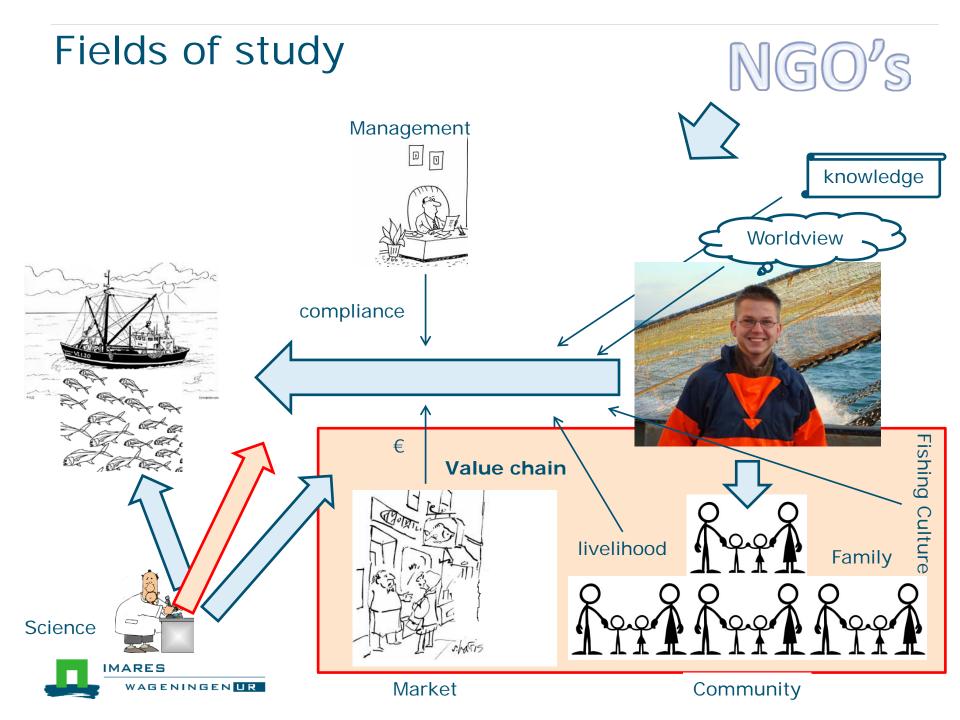


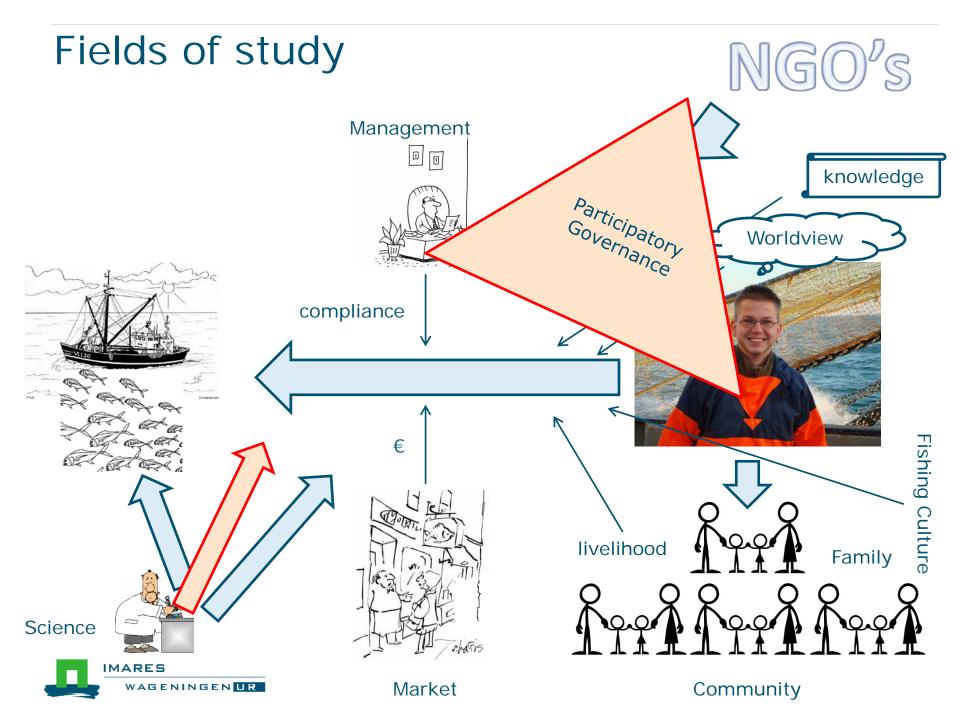


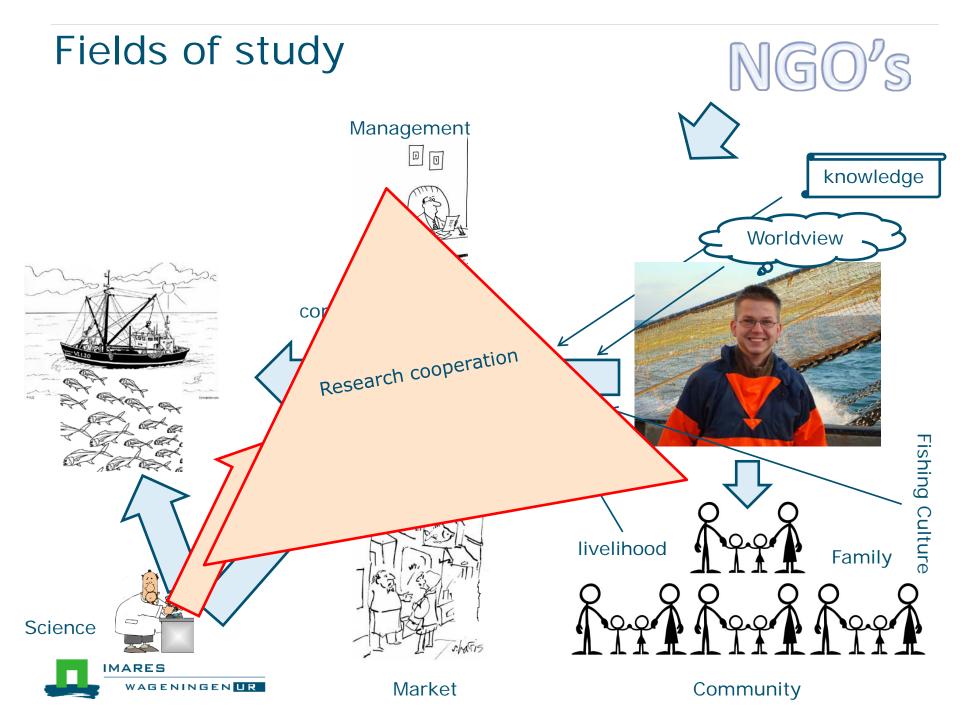








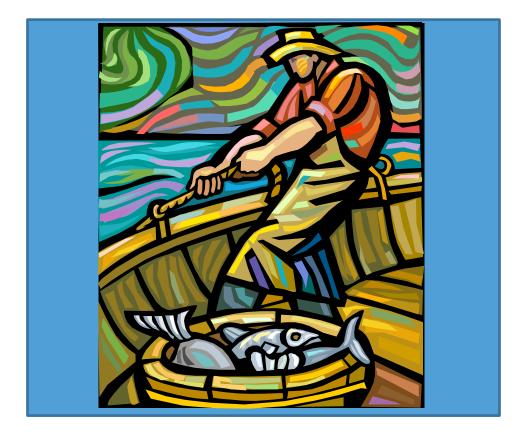




Key aspects of social science

Actor

system



Understand the meaning of social action

From *their* perspective

- 1. Why to people do what they do, say what they say?
- 2. How does the system work?



The system...

- Society: culture, norms, values, roles, power, status...
- Fisheries governance is all about making hard choices, not only based on 'rational' science but also matter of politics, power.
- Social science role is also to study these processesnot always appreciated
- Some social scientists choose to focus on the marginalised -> empowerment

 Social scientists sometimes feel to be marginalised themselves



Social science application in fisheries research

Daniel Pauly at MARE conference 2005



"social scientists don't play a role in fisheries management / science because "social scientists: (1) neglect[ing] in their field work key variables, such as catch levels, important to any understanding of fisheries; and (2) often conducting and reporting on locale-specific field work without attempting broader (and admittedly risky) generalisations -- the elements of a 'model' -- that are imperative for actual policy making". (MAST 2006)".

Responses to Daniel



- Svein Jentoft: "First let me note that, like small-scale fishers, fisheries social scientists are of course well aware that they are a marginal group. We hardly play any role in informing fisheries policies at various levels, and we do find this to be a paradox given that policy formation and governance are typically social science specialties. This often makes some of us feel a bit disillusioned and perhaps even a little bitter from time to time, and we ask ourselves why we bother".
- Rob van Ginkel: context matters
- Nathalie Steins: also large scale fisheries need understanding (MAST 2006)



Why 10 years later, 'marginal' social science is changing...

- Call for ecosystem based management, integrated assessments
- Sustainability: people planet profit
- Call for participation in research projects
- Buzz words are there: stakeholder participation
- Challenges:

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- EU no social objectives
- Budget cuts government (so no room for extra research)
- Beware of window dressing

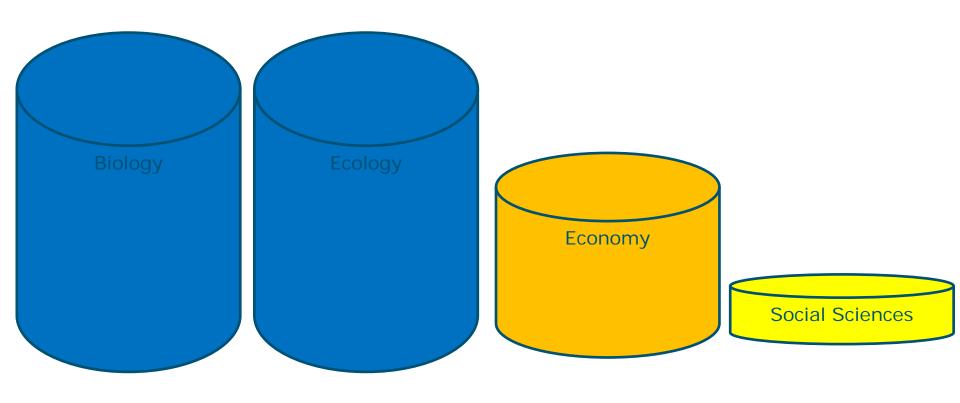
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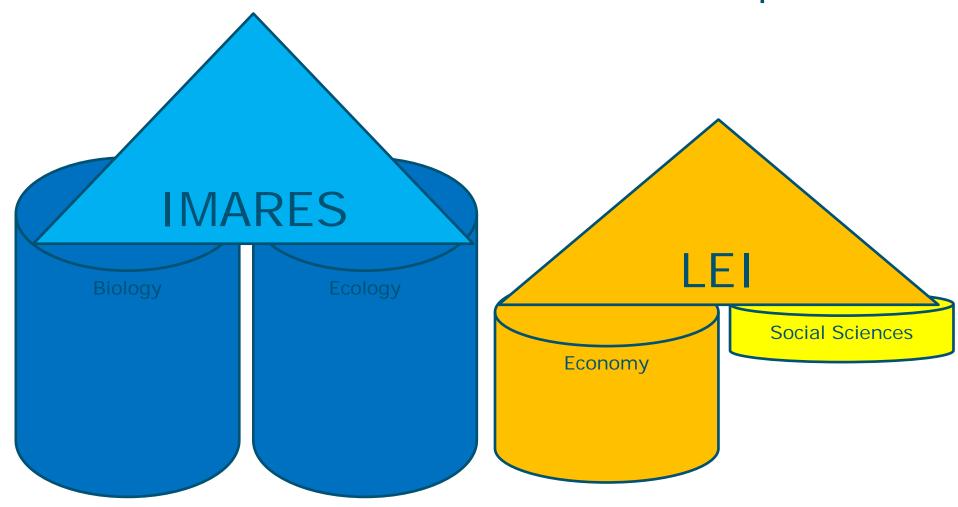
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The pillars of applied marine research





So where should I work to have impact?



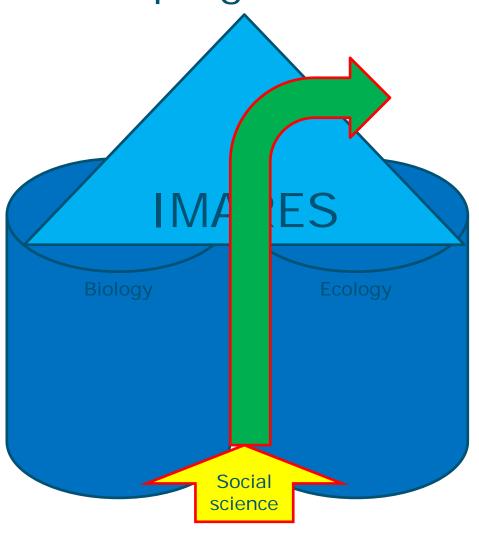


Choosing for 'the biologists'





Slow progress

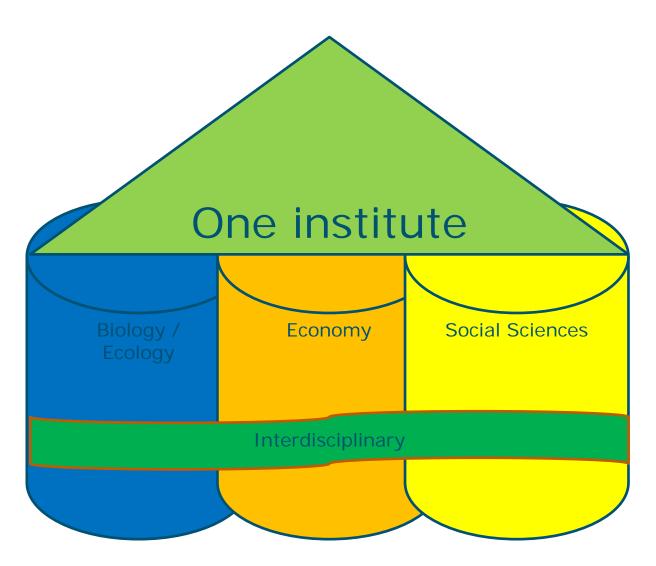


- From 'add on' social science in projects to
- development of interdisciplinary work

"Let's ask the fishermen."

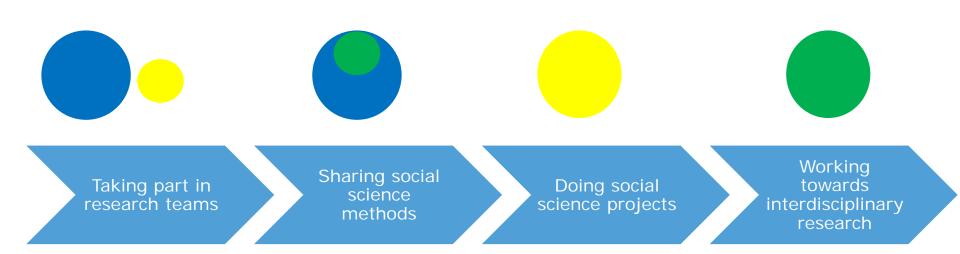


The ideal picture





Advantages of working together



Add on social science

- *Social science workpackages
- *Projects in cooperation with the Fishing industry

Some questions require social science

Changing methodology

Interviews -> how Stakeholder meetings -> how Some questions require a new approach



Three directions of work as social scientist working from within



Social science methods for natural scientists



Social science research: i.e. on perceptions



Interdisciplinary research



The course – why?





Methodological toolbox



Research cooperation



Stakeholder meetings





Natural scientists asking fishers...







In the meantime in Europe... ...the landing obligation





Context 1: Discards



Not a black-white story

Discards result of complex interplay of rules, regulations, market demand, technology and decisions of the skipper





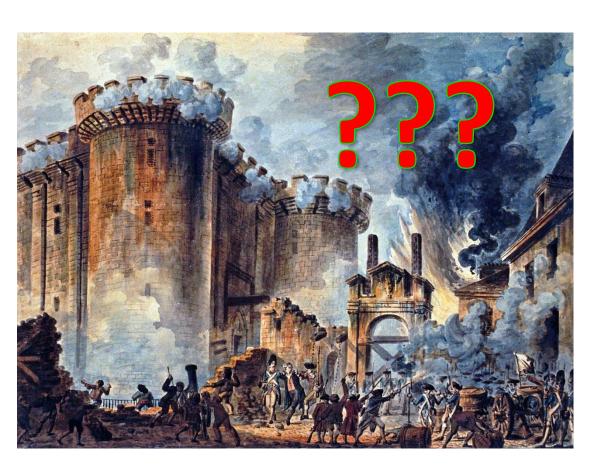
Context 2: Cooperation is crucial





Context 3: The landing obligation is a revolution





- Radical change of the system
- BUT

- Goal is unclear
- Consequences are unclear
- Governance structure is unclear



Three questions



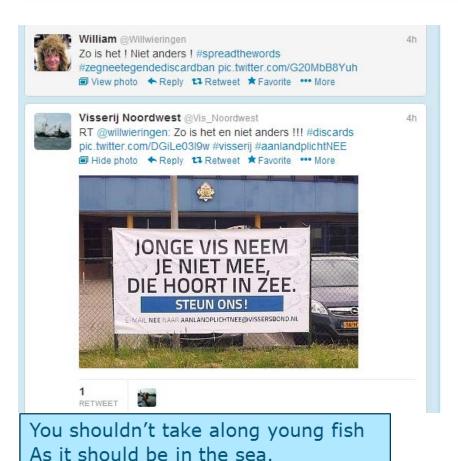
- What are discards to fishermen?
- Contested policy
 - Why cooperate?
 - How?
- What is the line of reasoning (perceptions) of policy makers and of fishermen?





Discards to fishermen: their reasoning





- 0% discards = no fishing
- "If I see 400% discards in my catch, I am happy as it is a sign of a lot of new young fish in the sea".
- If the stock is doing well, why should discarding then be a problem?
- Compare to other industries; on chicken farms all males get killed; with seedlings on a farm, many are not used.

Support us!

Discards to fishermen: discards are age old...





Then they sat down and collected the good fish in baskets, but threw the bad away



Cooperation: NL has a long history of cooperation



- Horizontal society Polders
- Export product
- Research cooperation

But... the landing obligation?



LO: Two options for the fleet



On the table or 'at the table'







LO: options for the ministry



- Top down management (control)
- Cooperate











So what was said?





The gap between ministry and fishers



- Fishers
- 'the discard ban is impossible'
- 2. Let's discuss the principles



- Ministry
- 1. 'the discard ban is a fact'
- 2. We will not have a discussion on the principles

Fisher representative: 'we need to make the impossible, possible' 27-9-2013



The gap between ministry and fishers

I'm not so sure...

Let's do it

together!

RESEARCH



Fishers

1. 'the discard ban is impossible'

2. Let's discuss the principles

3. Tell about the impossibilities, problems and dilemma's

Ministry

. 'the discard ban is a fact'

2. We will not have a discussion on the principles

3. Seek for room to manoeuvre in the implementation



The gap between ministry and fishers



Fishers

Tell about the impossibilities, problems and dilemma's



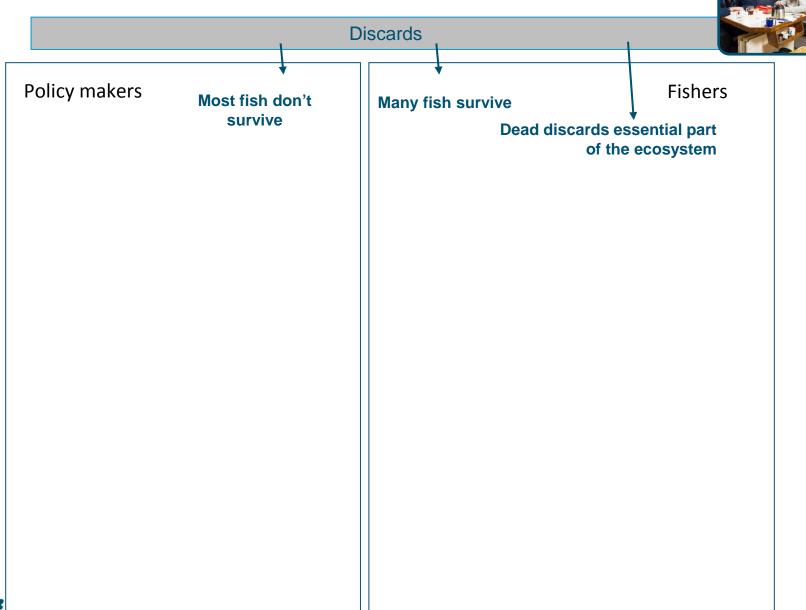
Ministry

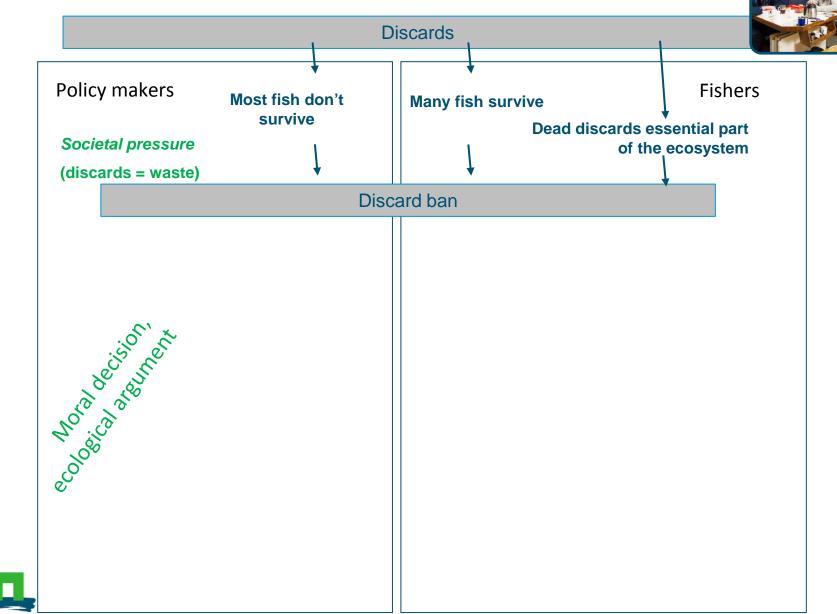
Seek for room to manoeuvre in the implementation

Problems:

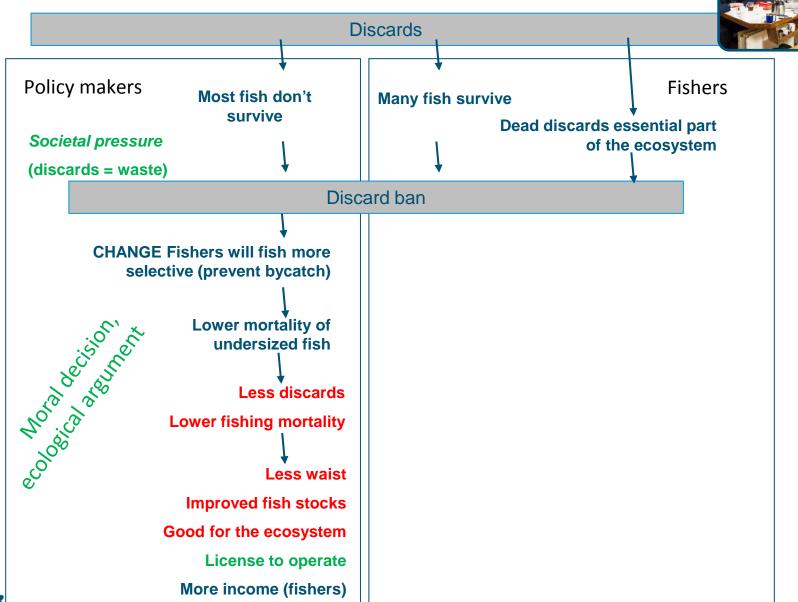
- 1. Research directed at proving it is impossible (exemptions)
- 2. NL needs to renegotiate about the outcomes in the region
- 3. Fleet is left aside and is not preparing for the change
- 4. There are some big elephants in the room...





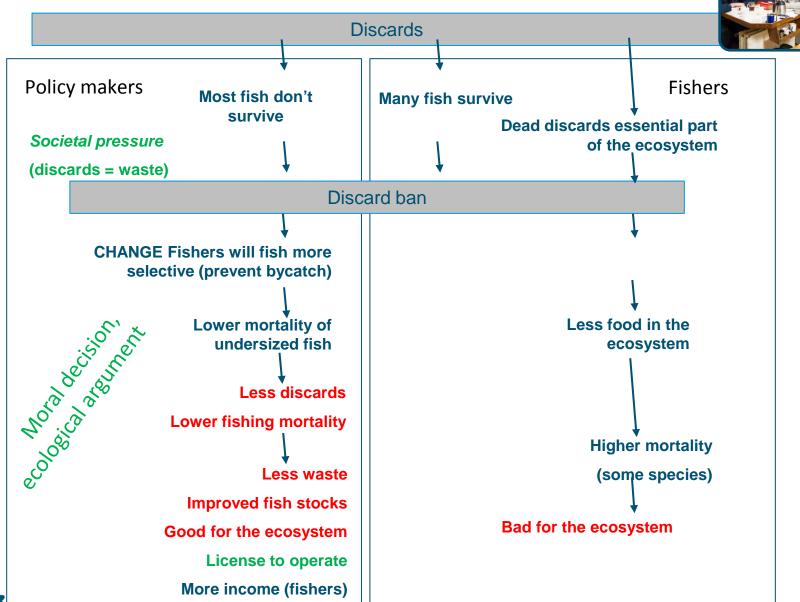


Kraan en Verweij 2016



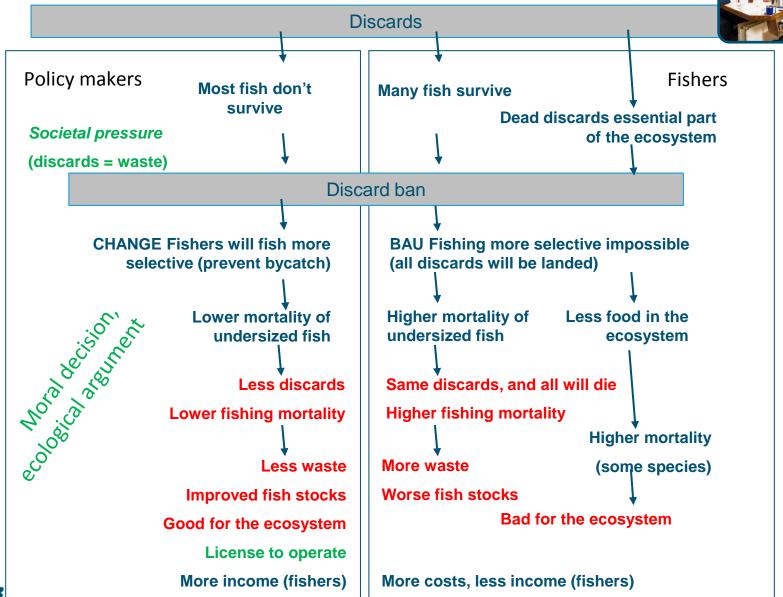


Kraan en Verweij 2016





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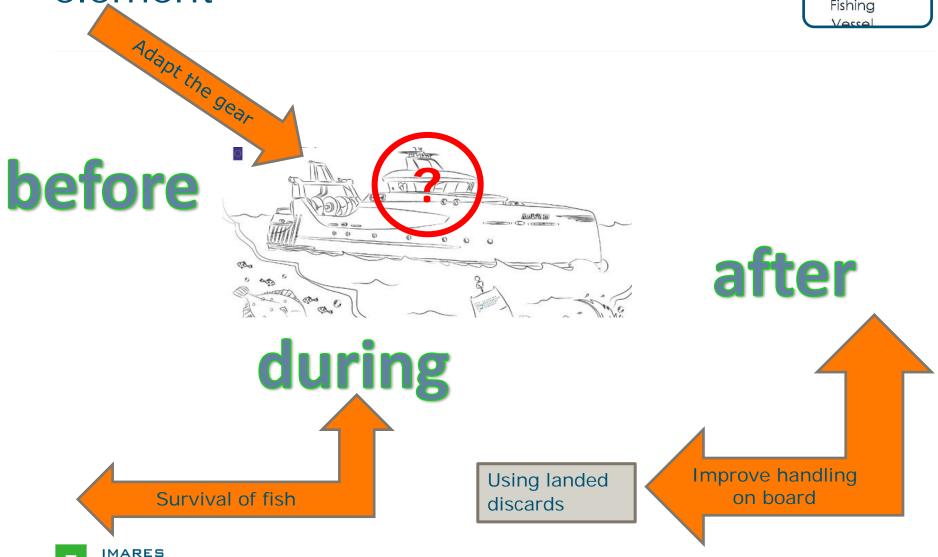




Current research misses a crucial element

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Conclusions

The need for social science in fisheries research and policy...















Conclusions on the use of social science

It is an open door

 the human factor is important in research, crucial for management



The door is open

 social scientists, interdisciplinary scholars - the time is ripe – be strategic

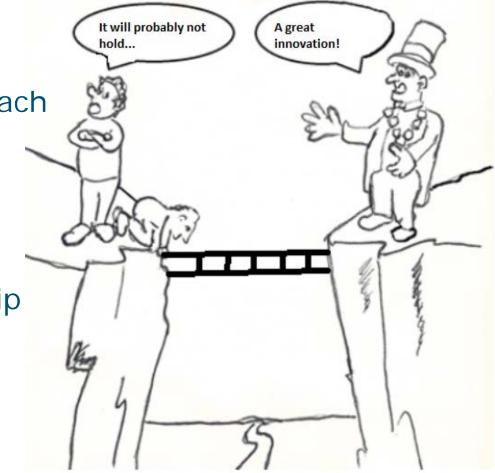


Conclusions on cooperation

 Cooperation requires discussing the goal(s), defining the problem and discussing possible outcomes together

Cooperation = teamwork; each partner has his/her expertise

Cooperation is constructed,
 needs trust, speaking same
 language, invest in relationship





Conclusions on participatory processes

- Sharing knowledge how to organise the right process?
- "extracting" fisher knowledge / perceptions
 - Social science has to offer:
 - Light model: methods
 - More fundamental: reflection & theory
 - Fishing = political
 - Knowledge is not neutral
 - What is the role of science?

Participatory research / management: do it right (for real) or don't do it!







Thank you!

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Marloes Kraan and Marieke Verweij (2016) **Implementing the landing obligation in the Netherlands; an analysis of the gap between fishery and the ministry**. In P. Holm, M. Hadjimichael and S. Mackinson, (eds) Bridging the gap: Collaborative research practices in the fisheries. Springer.





