



MINOUW

Science, Technology, and Society Initiative to Minimize Unwanted Catches in European Fisheries

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WWF Mediterranean

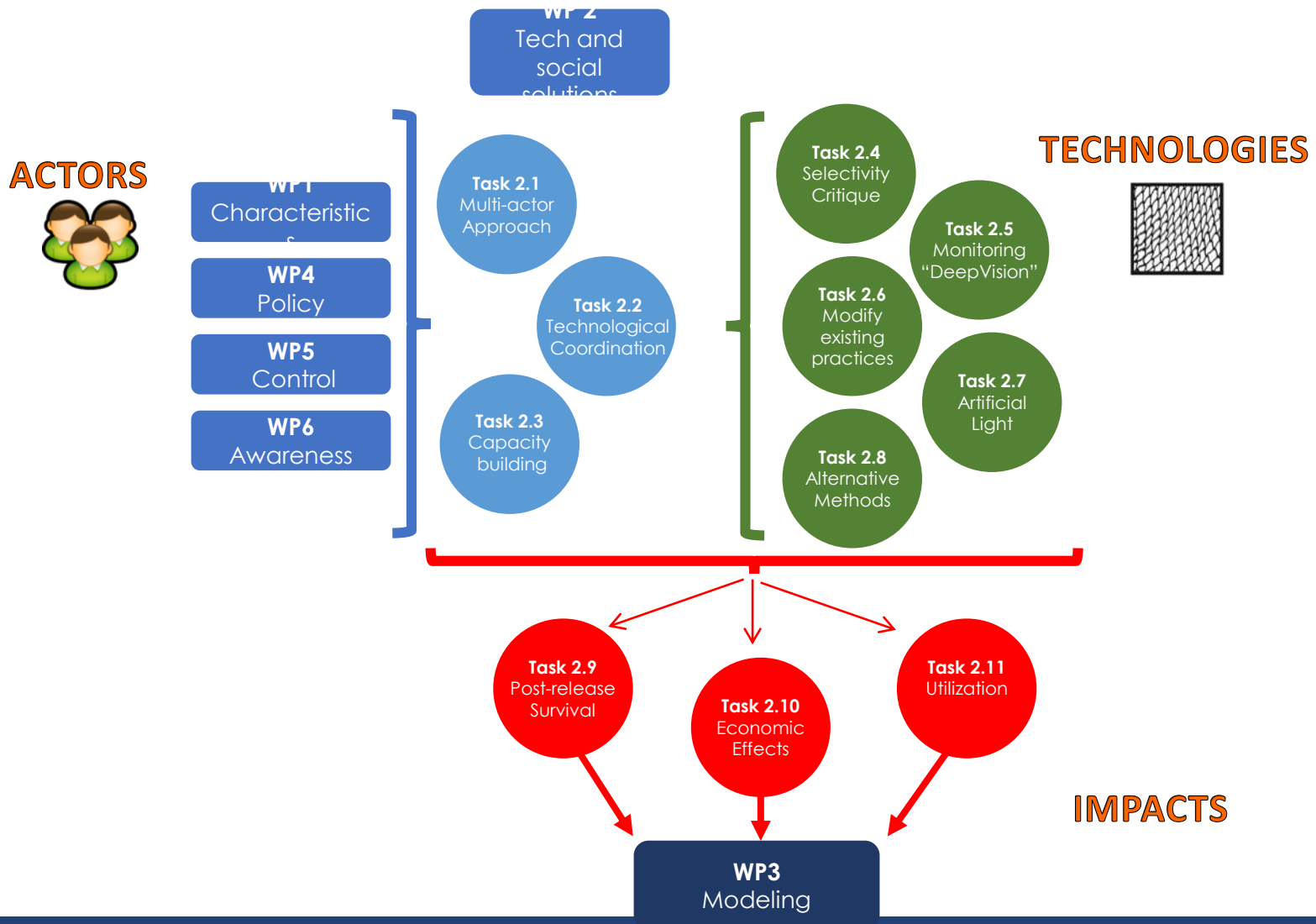
MedAC FC W-Med
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La Valletta, Malta



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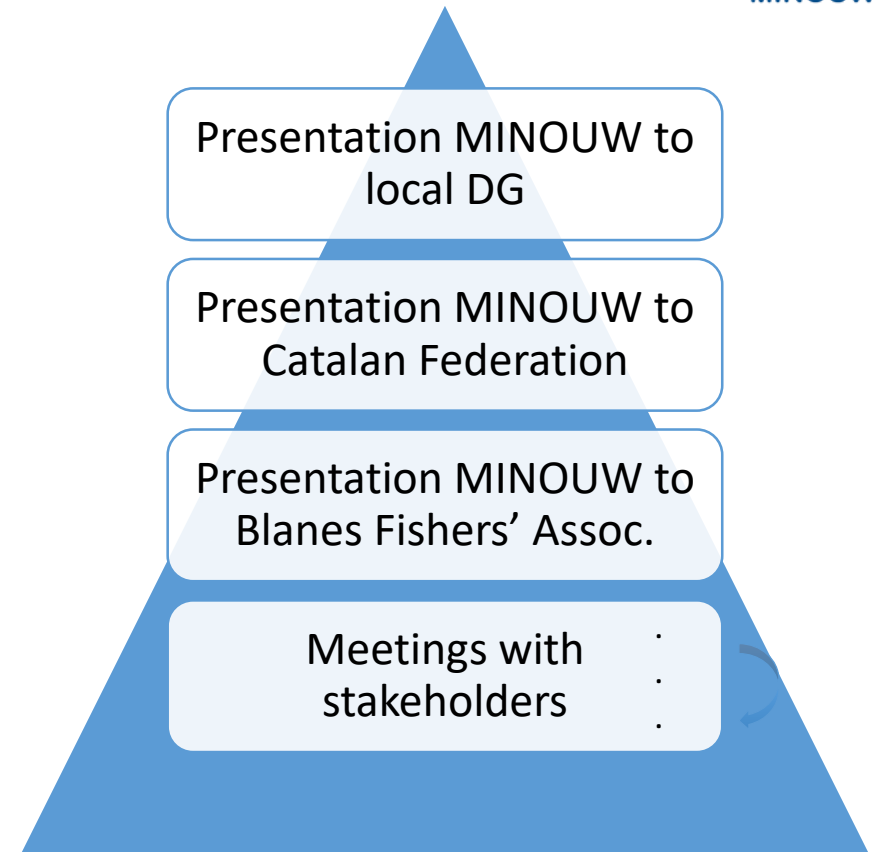


11 Tasks under 3 broad thematic topics: actors, technologies, impacts



Task 2.1. Multi-Actor approach

- **YEAR 1. Phase 1** – characterization of the problem and identification of field actions
 - Step 0. Stakeholder analysis and action plan
 - Step 1. Seeking institutional support from administrations (bilateral meetings with the authorities)
 - Step 2. Engaging the fishing sector at institutional level (bilateral meetings with fishers' representatives)
 - Step 3. Engaging the fishing sector (at operational level): Introductory Meeting
 - Step 4. Regular multi-stakeholder workshops (characterize the problem, propose solutions)
- **YEARS 2 and 3. Phase 2** – testing solutions in the field
 - Step 5. Monitoring the implementation, assisting fishers
- **YEAR 4. Phase 3** – Performance assessment, drawing conclusions
 - Step 6. Evaluation of field interventions, developing replication kit
- **Phase 1: mid 2015 – Feb. 2016**
- **Phase 2: Mar. 2016 – Feb. 2017**
- **Phase 3: 2017/2018**



Multi-actors approach Introductory meeting in Blanes 2015



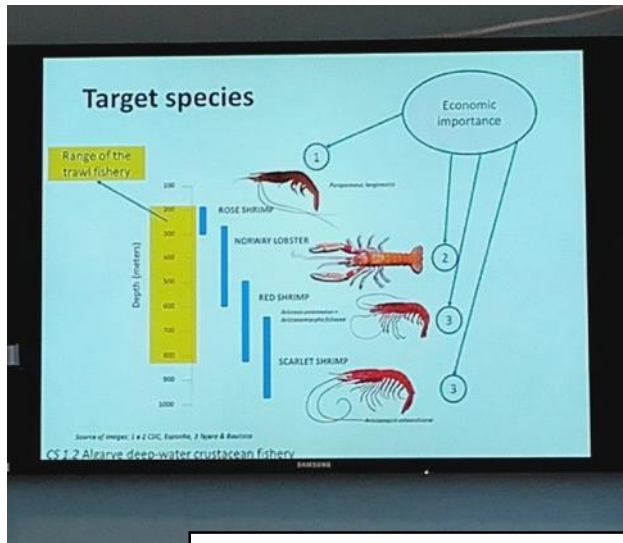
Multi-actors approach Introductory meeting in Mazara 2015



Multi-actors approach Introductory meeting in Faro 2016



Technological and social solutions defined and tested in 12 pilot case studies



technologists evaluated results of enquiry process

+

Local scientists prepare field interventions



On-going (2016-2017) activities implemented in the pilot case studies, as agreed during the participatory / consultative process with stakeholders.

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	Apr
	2016	1	2	3	4	5	6	7	8	9	10	11	12	2017	1	2	3	4
Catalan Bottom Trawling																		
<i>Regular monitoring on board</i>																		
<i>Lights for fisheries Norw. Lobster</i>	1.4													1.4				
<i>Gear modifications for red shrimp</i>																		
<i>Deep Vision field test</i>																		
Sicilian Bottom Trawling	1.5													1.5				
<i>Grid field experiments</i>																		
Tuscan Bottom Trawling/lights	1.6													1.6				
<i>On board observation/field test</i>	1.8													1.8				
<i>Regular fishermen visits</i>																		
Adriatic Pelagic trawling	2.1													2.1				
<i>Participation in public consultancy</i>																		
Algarve Purse seiners																		
<i>Improving pre-catch identification</i>																		

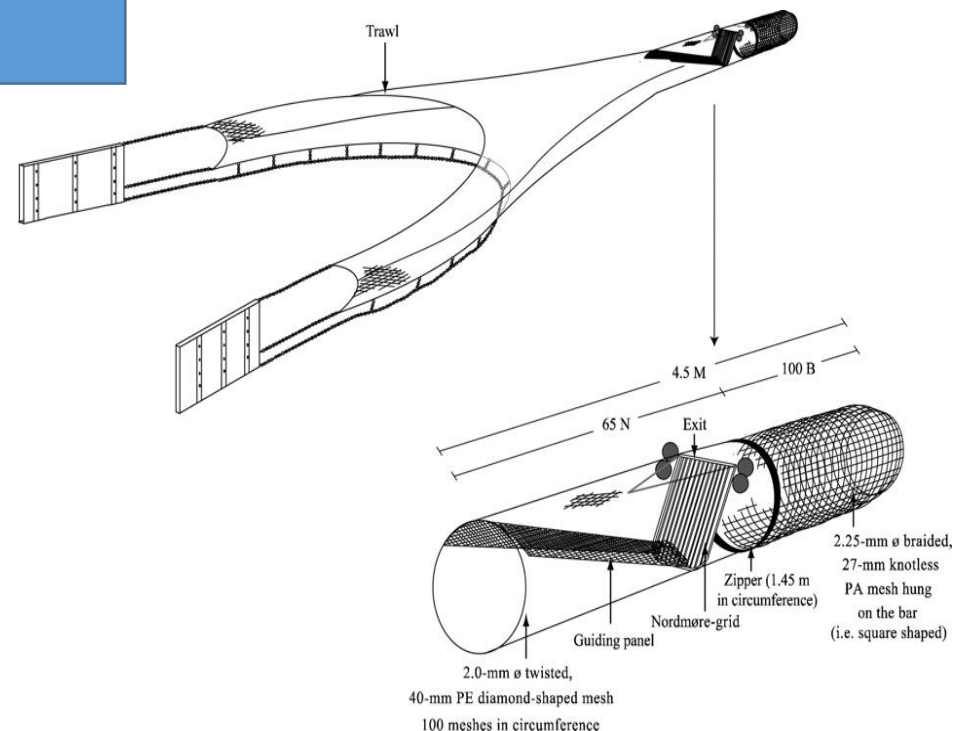
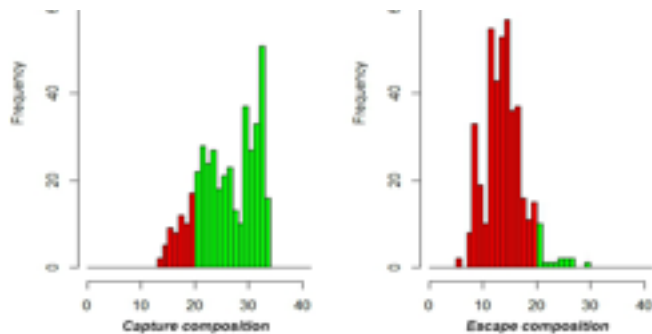
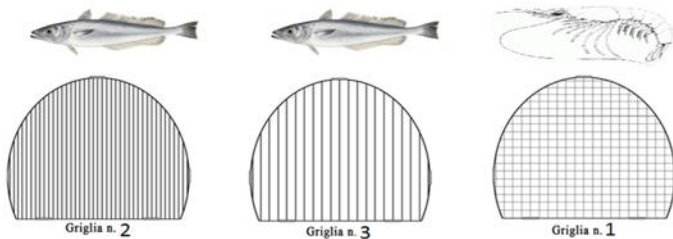
Technological and social solutions defined and tested in 12 pilot case studies

In Task 2.6 the case studies carried out activities related to **modifications of existing fishing practices** to improve selectivity and decrease unwanted catches.

Main type of fishing gear:

- Task 2.6a towed fishing gear (trawl and bivalve dredges),
- Task 2.6b purse seine
- Task 2.6c static fishing gear (set nets, surface longlines and pots)

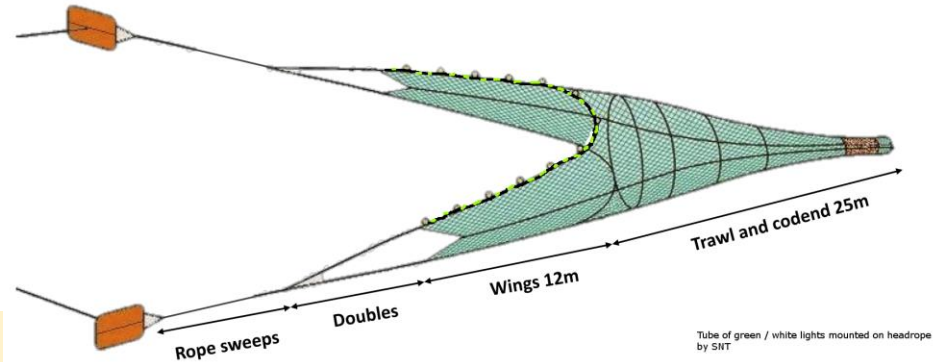
TRAWL – testing new designs of sorting grids (Sicilian Channel, Mazara)



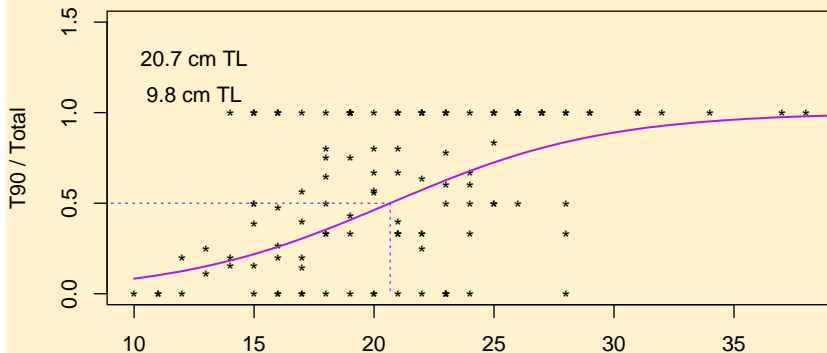
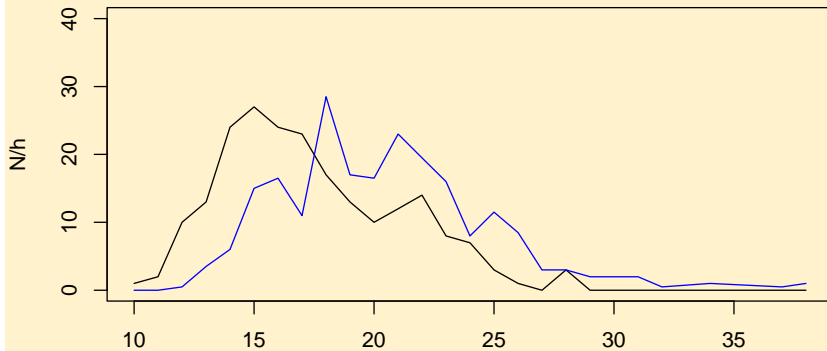
Technological and social solutions defined and tested in 12 pilot case studies

Testing T90 extension piece to reduce bycatch of juveniles of target species

Provisional results show that L50 increases significantly for hake and red mullets (although SR incr. as well)



Trawl – T90 (Catalunya, Blanes)



T90 before cod-end

L50 in line with MLS for hake (20 cm TL)
Inexpensive solution

Technological and social solutions defined and tested in 12 pilot case studies

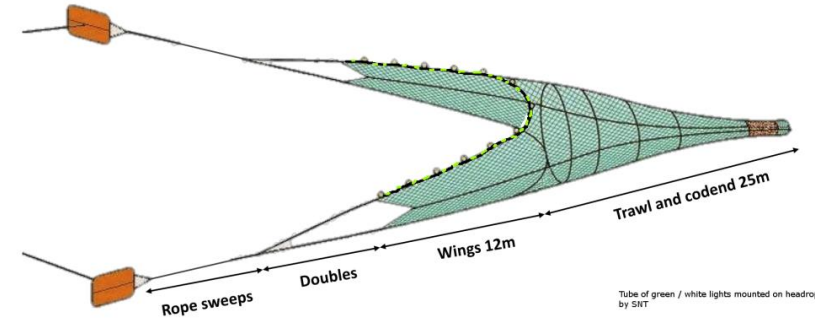
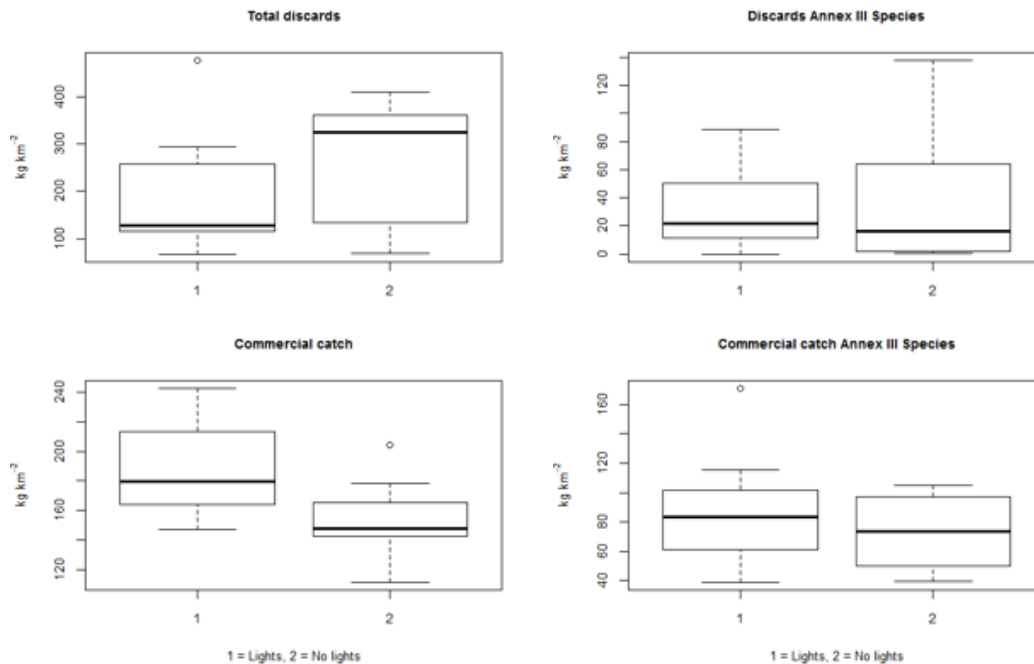
Lights on headrope of trawl to test effect on UWC of fish in DW crustacean fishery

Two different configurations: “bulbs” and “neon stripe”

Preliminary results suggest:

- reduced overall discards
- no significant difference in discards or catches of Annex III sp

Reduced sorting costs and increased commercial fraction (bulbs)



Trawl – testing artificial light stimuli (Catalunya and Tuscany)

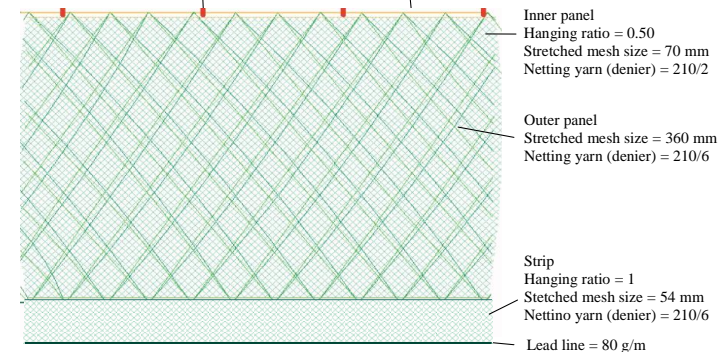
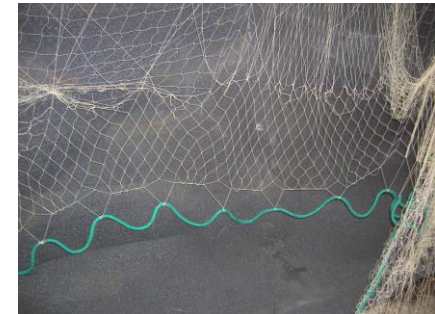
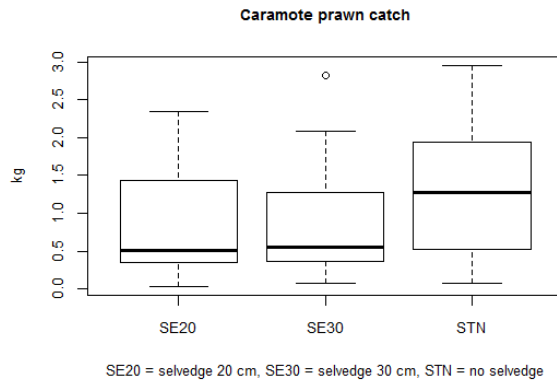
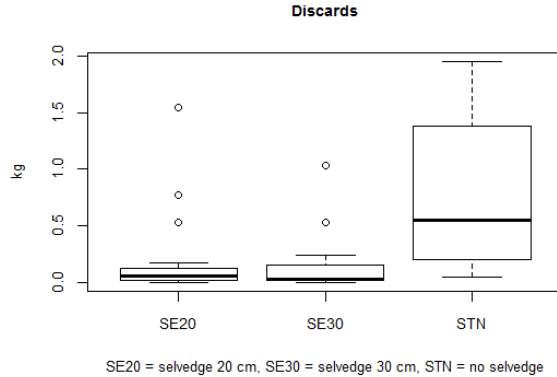


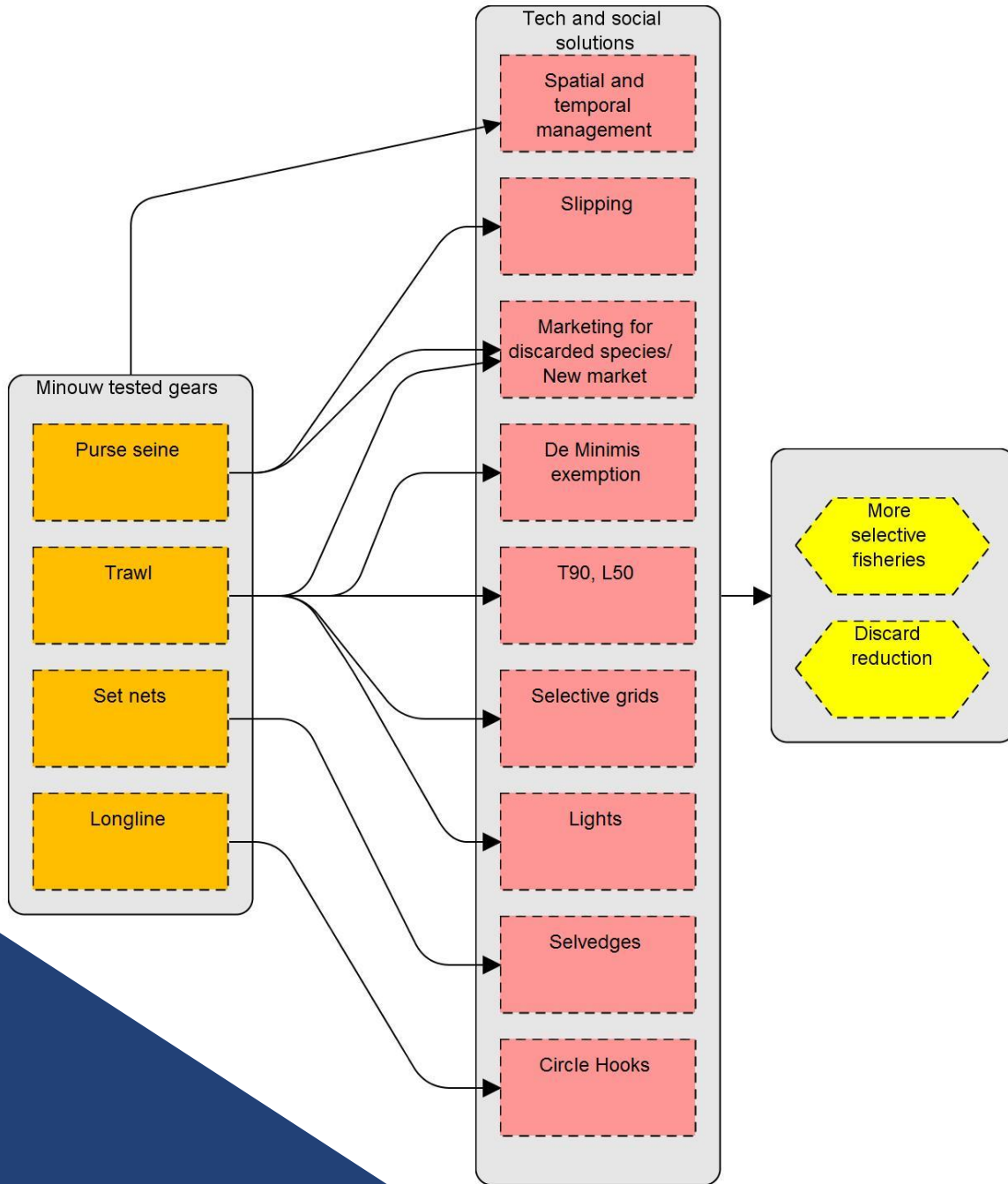
Technological and social solutions defined and tested in 12 pilot case studies

Considerably reduced amount of discards (both total discard and Annex III species)
 Non-significant reduction of main species catches

Trammel net– testing selvedge (Catalunya, Tuscany)

Reduced sorting costs and unappreciable loss of income from target species





WP6: Dissemination, Exploitation and Communication



HOME

ABOUT ▾

OUR WORK ▾

RESULTS ▾

BLOG



Alfo's Story

Alfo, of Viareggio, Italy, explains how to reduce discards using a trammel net modified with an added selvedge

Learn More

<http://www.minouw-project.eu>



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