



MINOUW

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

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WWF Mediterranean

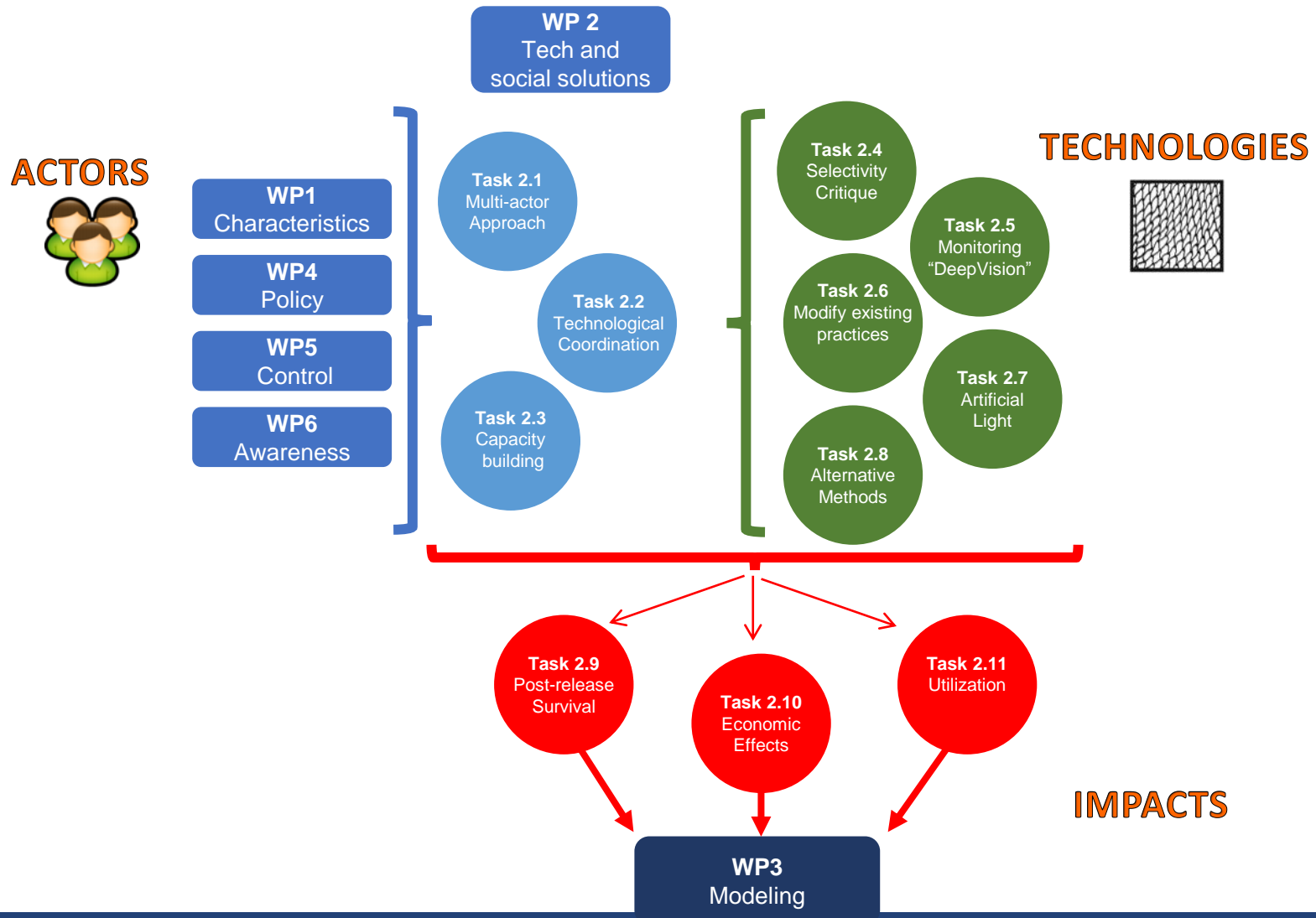
Discardless meeting
9-10 March 2017
FAO, Rome



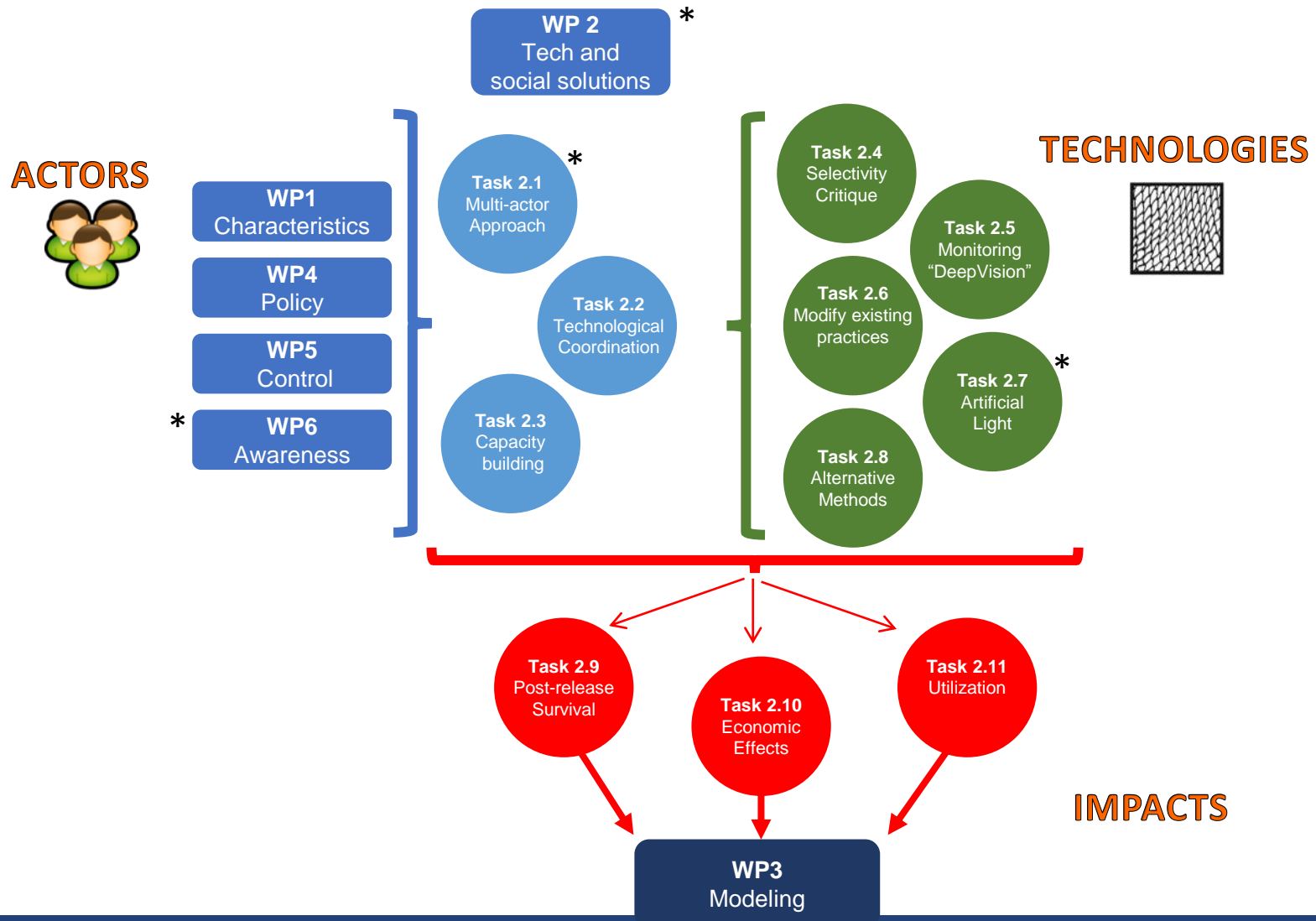
Co-funded by the Horizon 2020
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11 Tasks under 3 broad thematic topics: actors, technologies, impacts

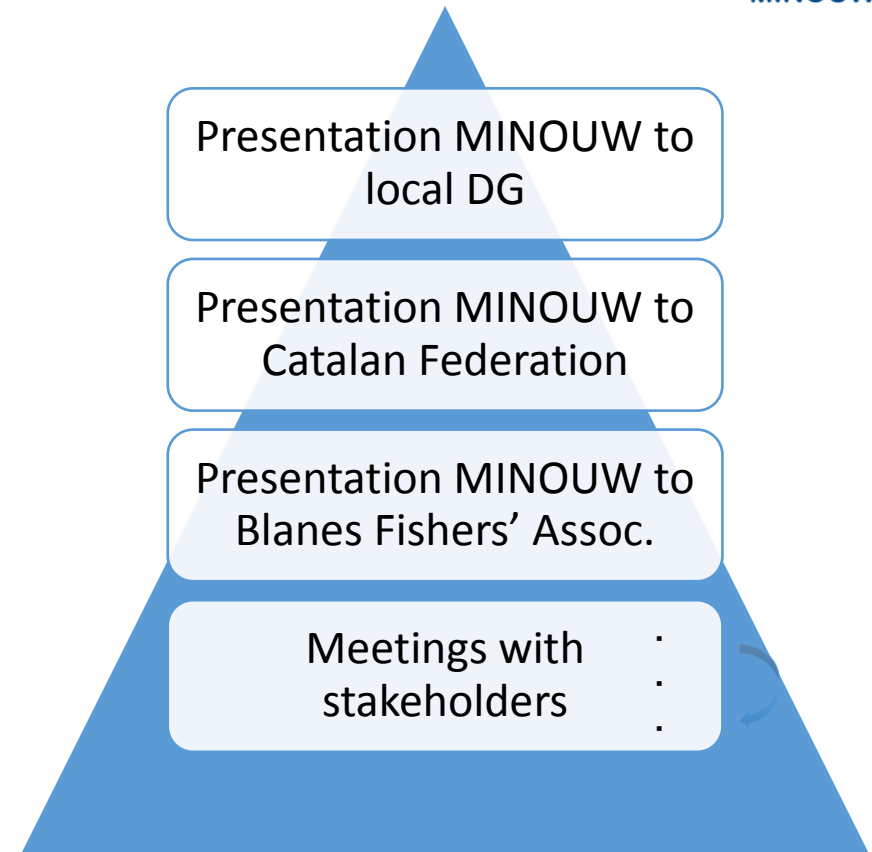


11 Tasks under 3 broad thematic topics: actors, technologies, impacts



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

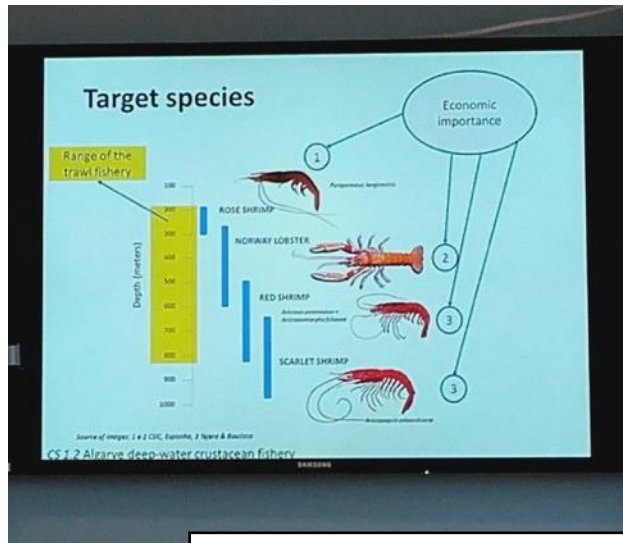
Introductory meeting in Mazara 2015



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																		
Regular monitoring on board																		
Lights for fisheries Norw. Lobster	1.4													1.4				
Gear modifications for red shrimp																		
Deep Vision field test																		
Sicilian Bottom Trawling	1.5													1.5				
Grid field experiments																		
Tuscan Bottom Trawling/lights	1.6													1.6				
On board observation/field test	1.8													1.8				
Regular fishermen visits																		
Adriatic Pelagic trawling	2.1													2.1				
Participation in public consultancy																		
Algarve Purse seiners																		
Improving pre-catch identification																		

MARKETING

EDUCAZ. CONSUM
VALORIZZAZIONE SCARTE
MARKETING
MEDIATO
QUALITÀ PRODOTTO
COMHE. ELIAUTIZIONE
Diff. Prodotto

TECN.

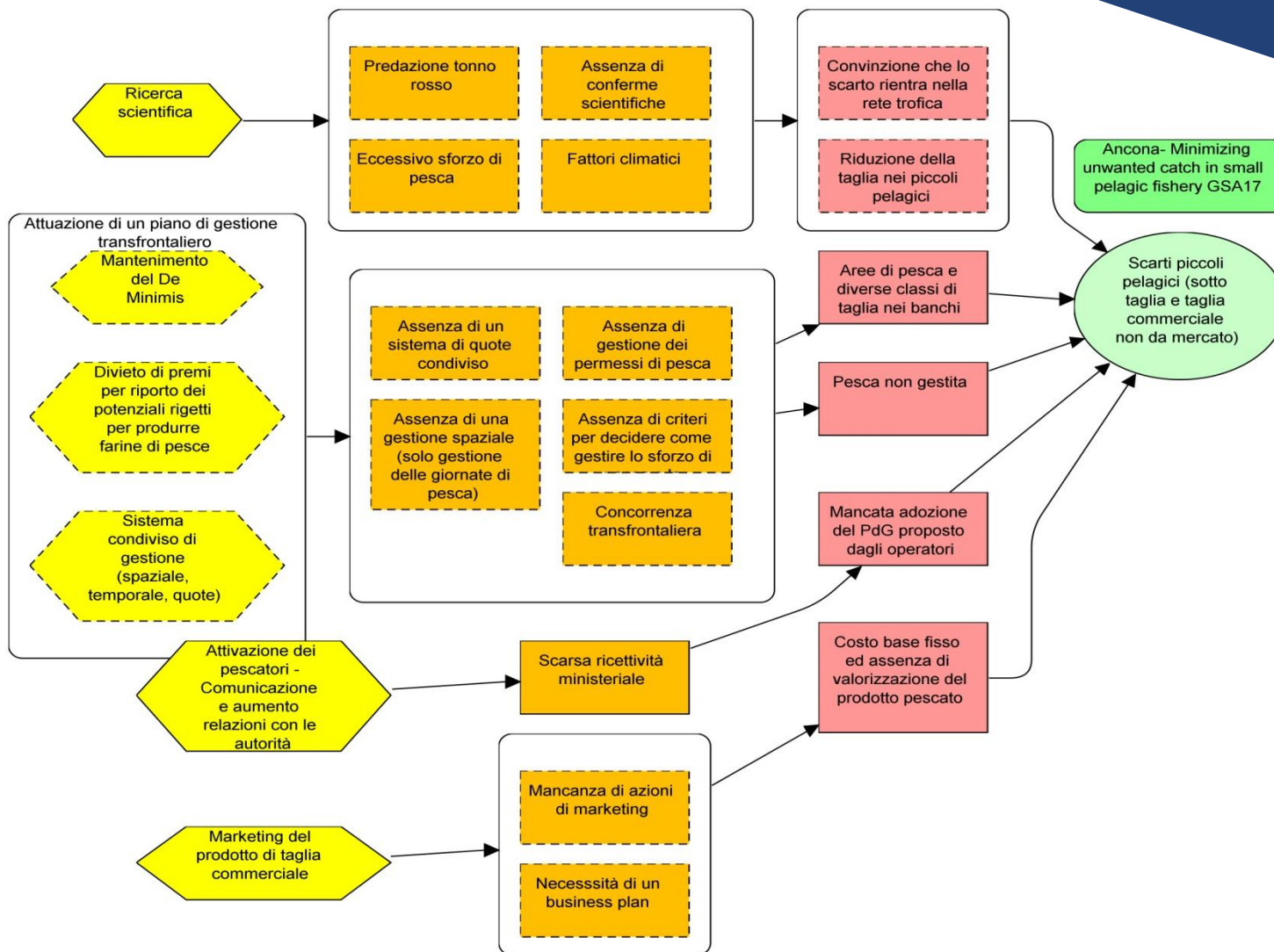
SOLUZIONI TECNICHE
PROVE SELETTIVISTICHE
TA VANDERBEEK

TRASFORMAZIONE
LAVORAZ. A BORDO
INVESTIMENTI
BANCHE ADATT.
TECN. COSE

CONCORD. SCALE
ZONE RITASTE SCARTE MINIMO
PIANO DI GESTIONE
MEDIO ME. DIST. SPORE ZONE PESCA
GESTIONE RISORSA CONDIV. ALTURA SCARTE
TROPPO SPACI
4' 32.9%
CONDIV. VALORI RIGETTI
ZONE POLITE
RIENTRA RETE TROPICA
LOCAI SCARTE
20VZ. FLOTTA 60-70
GEST. TEMP.
TESTARE SPAZIO DELLA PESCA

RIDUZIONE
DEL RIGETTI
PESCA GAMBRO
ROSA/BIANCO
CANALE DI SICILIA

Conceptual Model



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

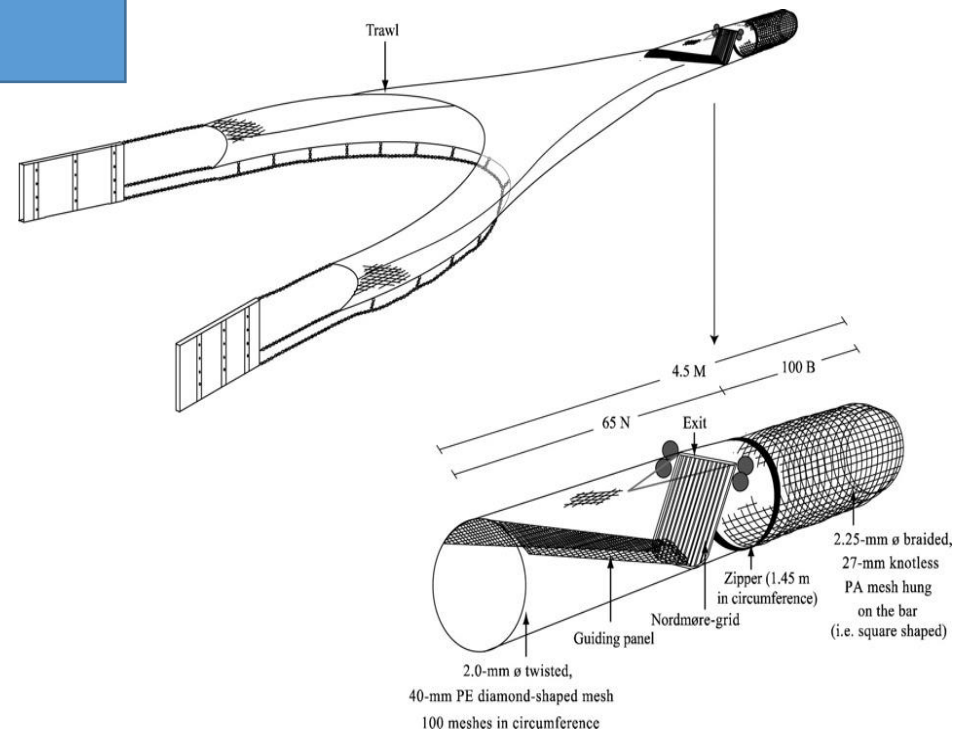
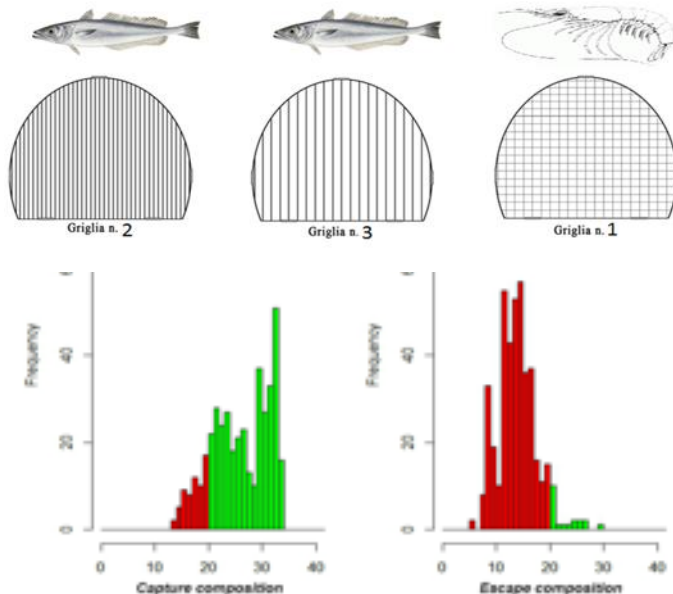


In Task 2.6 the case studies carried out activities related to **modifications of existing fishing practices** to improve selectivity and decrease unwanted catches.

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)

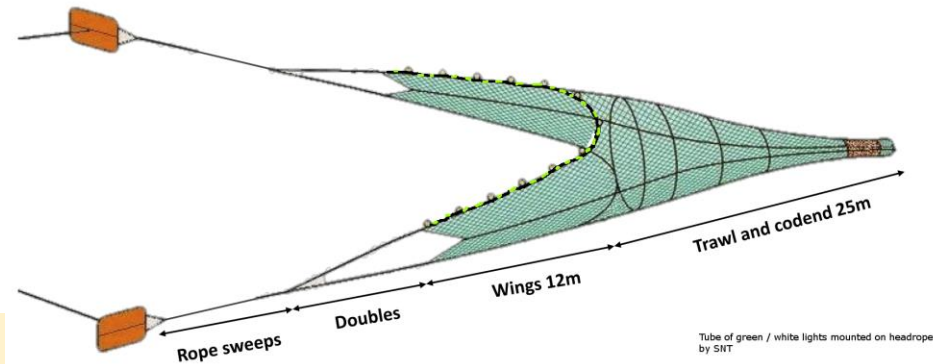
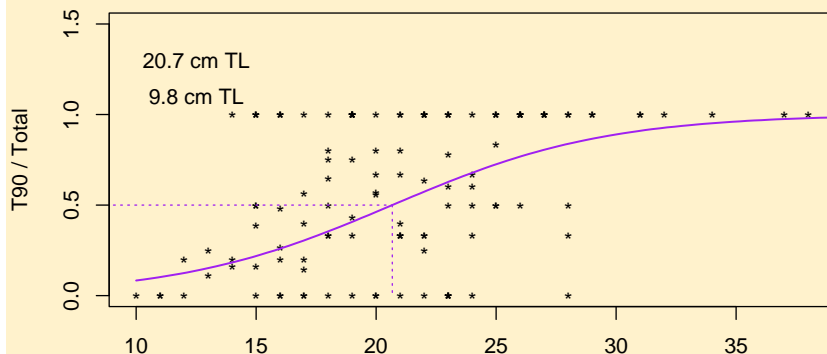
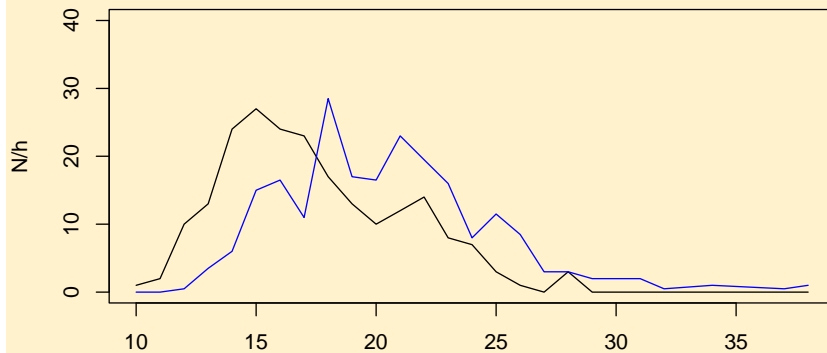


Technological and social solutions defined and tested in 12 pilot case studies



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

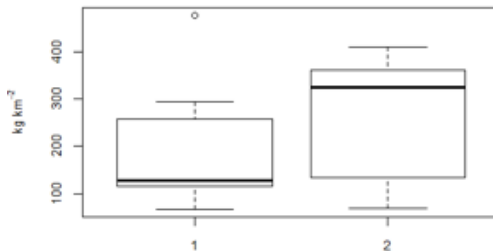
Two different configurations: “bulbs” and “neon stripe”

Preliminary results suggest:

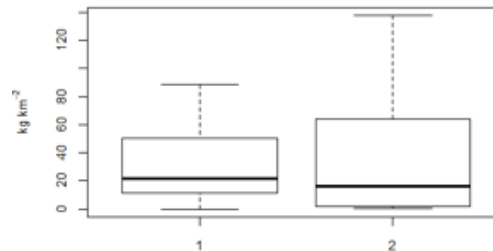
- reduced overall discards
- no significant difference in discards or catches of Annex III sp

Reduced sorting costs and increased commercial fraction (bulbs)

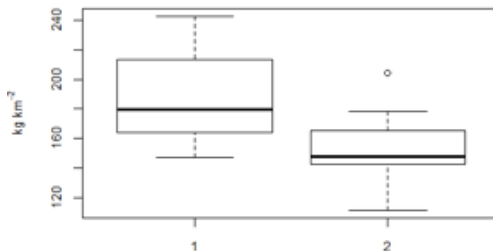
Total discards



Discards Annex III Species

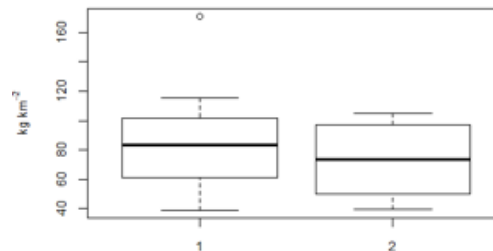


Commercial catch

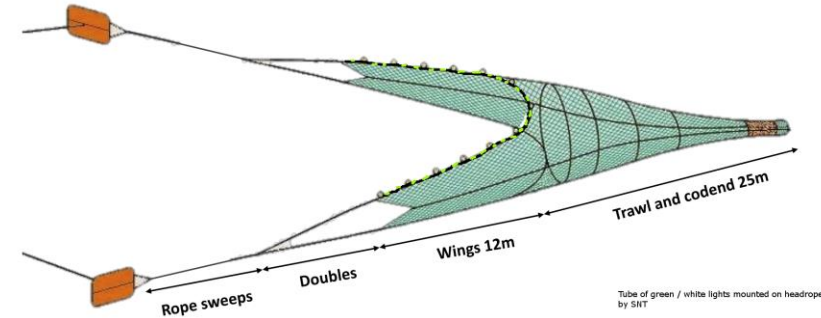


1 = Lights, 2 = No lights

Commercial catch Annex III Species



1 = Lights, 2 = No lights



Trawl – testing artificial light stimuli (Catalunya and Tuscany)



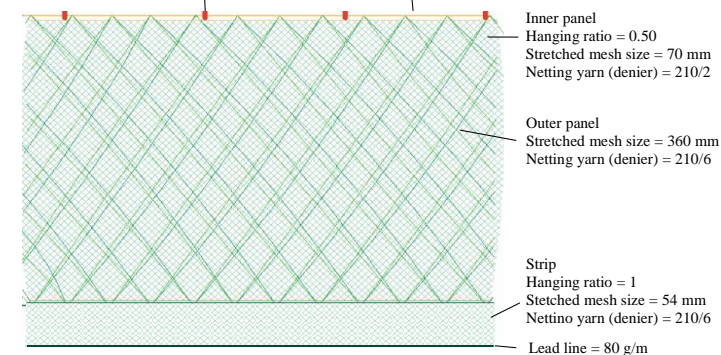
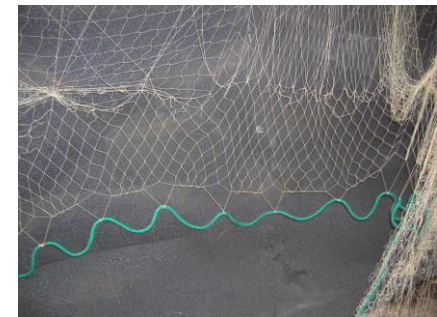
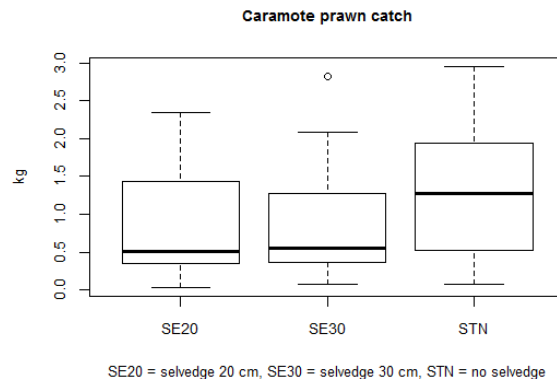
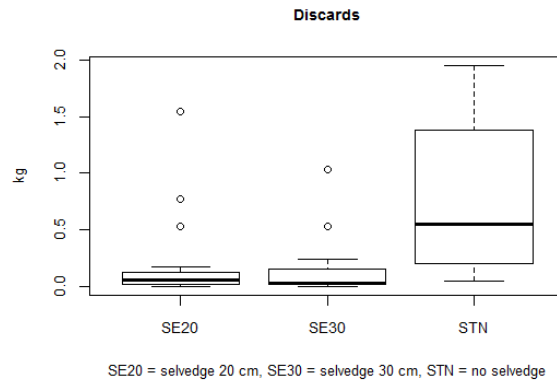
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Considerably reduced amount of discards
(both total discard and Annex III species)
Non-significant reduction of main species catches

Trammel net– testing selvedge (Catalunya, Tuscany)

Reduced sorting costs and unappreciable loss of income from target species





WP6: Dissemination, Exploitation and Communication

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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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