



Pilot project on Sturgeons in the Black Sea -Summary of activities implemented

Bycatch Mitigation Workshop
4-5 September 2024
Cestas, France





#### **Project Focus**



- Marine part of the sturgeon life cycle
- Bycatch
- + IUU

## **➤** Work package 1: Networking and awareness-raising

oTask 1: Creating networks

• Task 2: Awareness-raising and fisher

engagement

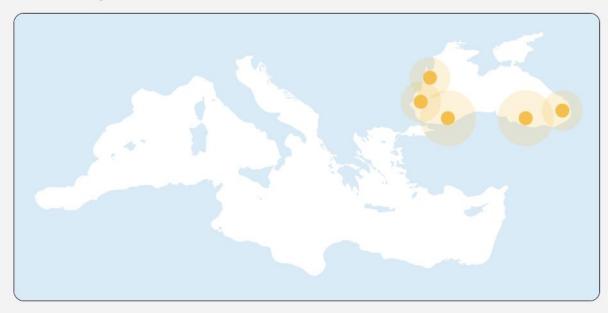
#### **➤**Work package 2: Collation of information

oTask 1: Review of BS sturgeons

oTask 2: Exploring fisher knowledge

**➤** Work package 3: Analysis and proposed future actions

#### Area of implementation



#### **Focus Countries:**

Bulgaria, Georgia, Romania, Türkiye and (potentially) Ukraine



Training the fisheries observers (Türkiye)

- species identification
- bycatch release
- mortality
- self-reporting

Feb. 2024

Mar. 2023

Feb. 2024

Sturgeon side event – FishForum 2024





Awareness-raising @GFCM/T. Dincer -Participatory meeting in Sakarya-Türkiye @GFCM/E. Fakioglu





Sturgeon side event – FishForum 2024 @GFCM

BlackSea 4Fish

## **Completed Activities**



 Exploring Local Ecological Knowledge of Black Sea fishers on Sturgeons (January-July 2023, BGR, GEO, ROU, TUR)

To gather complementary information from fishers on **bycatch interactions** and explore perception of **illegal activities** 



Acipenser gueldenstaedtii bycaught in Turkish waters ©Sinop University/S. Özdemir

A total of **302 fishers** were interviewed in Bulgaria, Georgia, Romania, and Türkiye



Interviewing a commercial fisher in Romania ©NIMRD

## Methodology



#### Section 3. Bycatch related information (11 questions)

1.Have you ever experienced the bycatch* of sturgeon?	□Yes □No			
	☐Demersal Trawl			
	□Pelagic Trawl			
	□Purse seine			
	□Gillnet			
2. What is the most effective fishing gear (s) to	☐Trammel net			
	□Pots and Traps			
	□Longlines			
	□Local gear called			
	□Spear gun			
	☐Hooks and lines			
3.Are they ever retained?	□Yes □No			
	□Consumption			
	□Gift			
4 XXII 4 : 4 4 4 : 1 0	□Trade			
	□Bait			
	□Vital condition of animal			
	□Other: Please specify:			
Fishing gear(s)	Gear 1	Gear 2	Gear 3	
5.Is there any specific location where this gear is				
used?				
6. What is the distance from the shore? (km)				
7.What is the depth range? (m)				
8.In which months do they go?				

#### Section 4. Illegal fishing related information (5 questions)

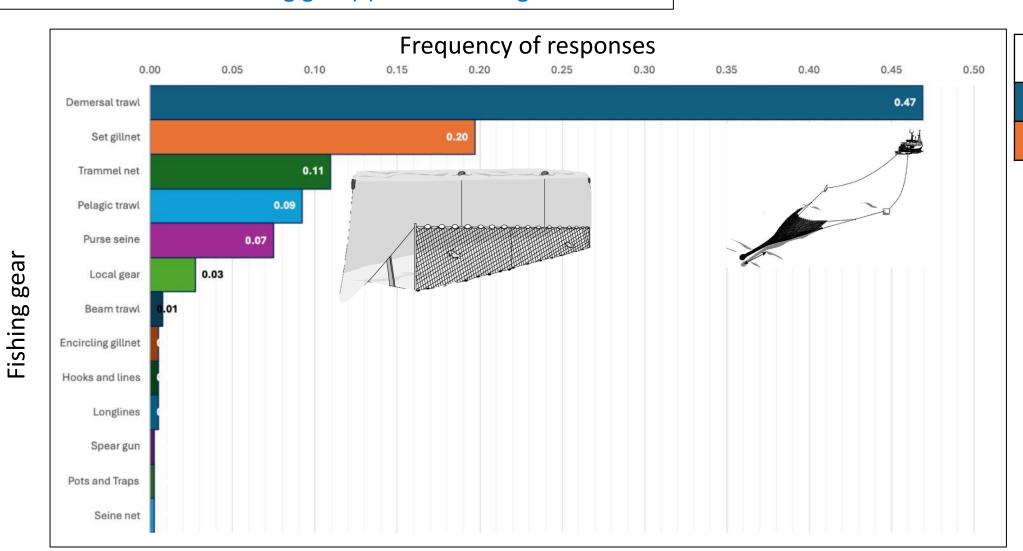
1.Is there any fisher targeting sturgeon?	□Yes □No	
2.Which fishing gear(s) is involved in illegal* activity?	□Demersal Trawl	
	□Pelagic Trawl	
	□Purse seine	
	□Gillnet	
	☐Trammel net	
	□Pots and Traps	
	□Longlines	
	□Local gear called	
	☐Hooks and lines	
	□Ineffective management	
3.What is the reason(s) underlying the illegal	□Insufficient subsidies	
sturgeon fishing?	□Overcapacity	
	□Other: Please specify:	
	□1= Never	
4.Illegal sturgeon activities happen in my	□2= Rarely	
area.	□3= Sometimes	
	□4= Often	
	□5= Always	
	□1= Fully Dissatisfied	
5.I am with the efficiency of monitoring,	□2= Dissatisfied	
control, and surveillance mechanism.	□3= Indifferent	
	□4= Satisfied	
	□5= Very Satisfied	

<sup>\*</sup>Illegal sturgeon fishing encompasses all types of fishing activities primarily targeting sturgeons.

#### **RESULTS - BYCATCH**



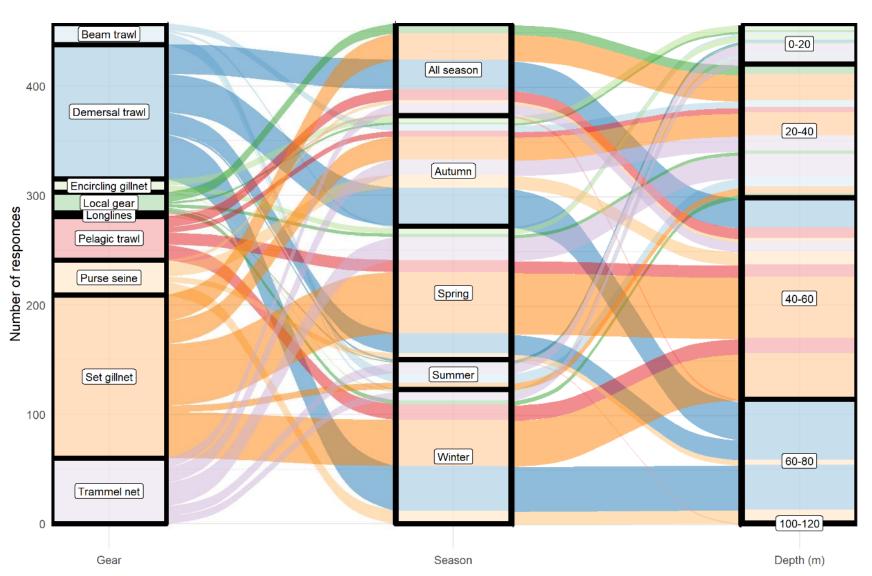
#### What is the most effective fishing gear(s) to catch sturgeon?



Main fishing gear in %
21.0
42.3

## **RESULTS – Spatio-temporal variation of bycatch interaction**

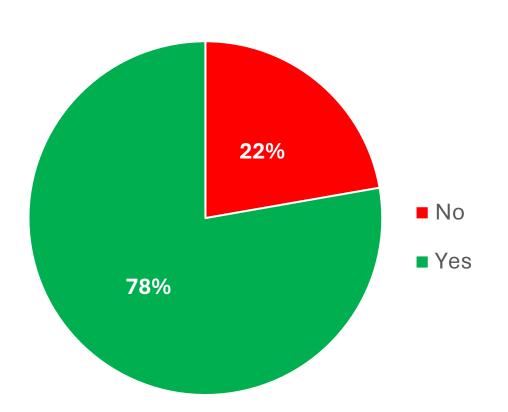




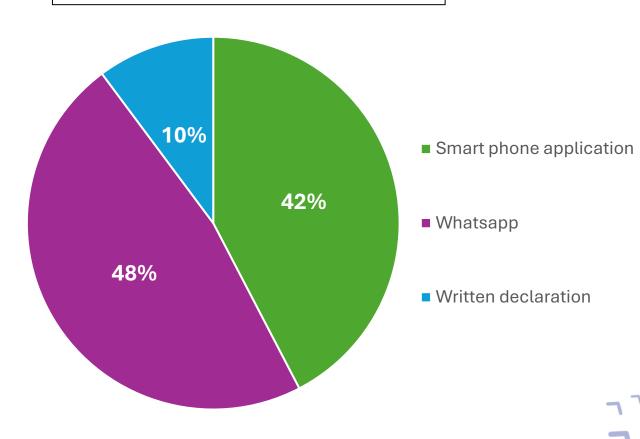
## **RESULTS – Reporting bycatch**



#### Would you consider reporting the bycatch?



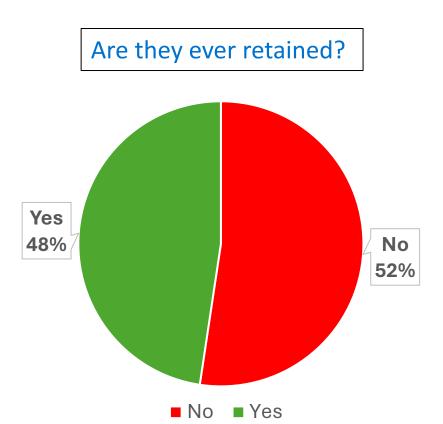
#### What kind of tool do you prefer?



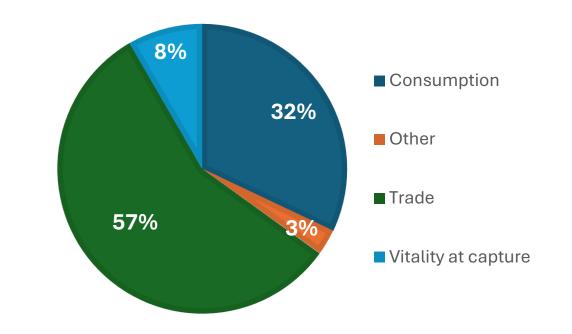
## **RESULTS – Non-compliant activities**



98 % of fishers believe commercial fishery is compliant with the current regulations



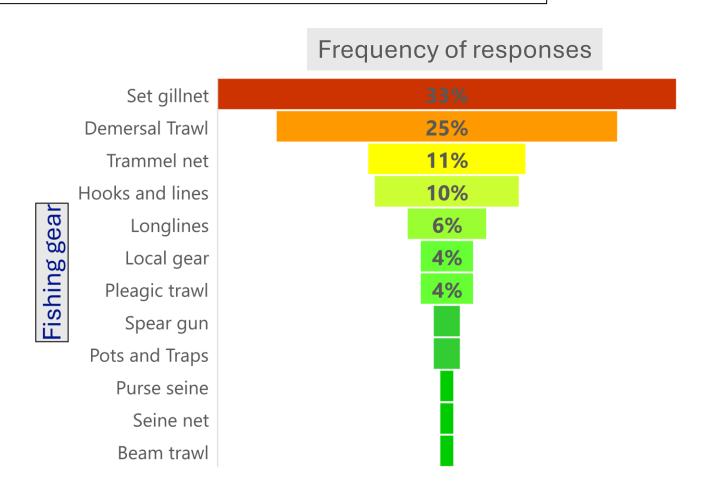
What is the reason(s) underlying the retaining?



## Fishing gears involved in non-compliant activities



Which fishing gear(s) is involved in non-compliant activity\*?



<sup>\*</sup>non-compliant sturgeon fishing encompasses all types of fishing activities primarily targeting sturgeon.

## **Ongoing activities**







- Data collection on bycatch through self-reporting
- A review of impact of bycatch and illegal activities on marine life cycle of Black Sea sturgeons



A Turkish fisher marking the interaction areas on a printed map @GFCM/T. Dincer

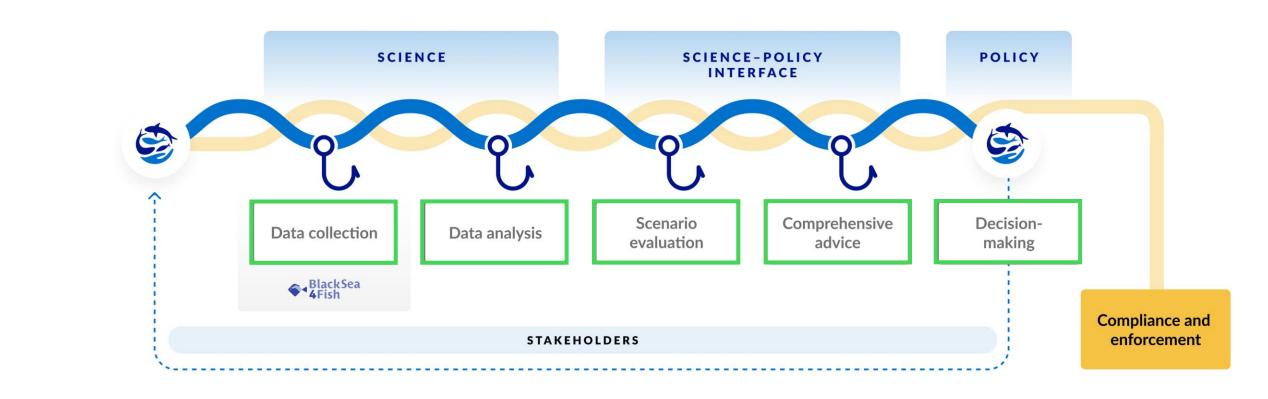
#### Mapping bycatch hotspots

Section 5. Participatory mapping of sturgeon bycatch hotspots

Bycatch area*	Fishing gear	Target species	Season	Year
5_EF_2023_2_20_TUR_a1	Purse seine	Anchovy	Winter	2015
5_EF_2023_2_20_TUR_a2	Pelagic trawl	Sprat	Autumn	2010



#### The GFCM fisheries advisory process: from raw data to targeted management



https://youtu.be/gXHUKynwwLc?si=vlHilkHculio60hd

#### **Key considerations for the WGBS**



- Maintain and improve the network of experts who are knowledgeable on bycatch and IUU in the Black Sea
- Encourage, standardize and expand the self-reporting mechanism by organizing training for commercial fishers and observers on
  - o species identification
  - safe release practices
  - vitality condition of sturgeons in the Black Sea
- ➤ Consider taking the necessary steps to incorporate sturgeons in Appendix F of vulnerable species of Data Collection Reference Framework
- In addition to demersal trawls, expand the existing discards monitoring programs to gillnets, purse seines and pelagic trawls
- > Consider implementing a tagging study to better understand sturgeon's habitat use in the Black Sea

## The Working Group suggested



- > A total ban on marine fisheries in the Black Sea
- ➤ Inclusion of sturgeons in the RPOA-VUL and Appendix F of the DCRF.
- > Continue awareness raising with the creation of guidelines for live release

# Thank you for your attention

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