

# Decision Support Tool applied to the management of the Veneto professional and recreational fisheries

Pilot Study Veneto | OGS, VeGAL et al., & Alberto Caccin

2<sup>nd</sup> Stakeholder meeting | February 25<sup>th</sup> 2021



European Regional Development Fund



# Starting point: comparison of landings

Reconstructed RECREATIONAL catches on the basis of:

- average CATCHES PER TRIP
- Qualitative trend back in time (to 2000)
- average number of TRIPS per season
- number of recreational fishers (2014-2019)
- Plus Tuna catches (official)

Alberto Caccin &



Registered recreational fishers at Italian Ministry of Agriculture for VENETO

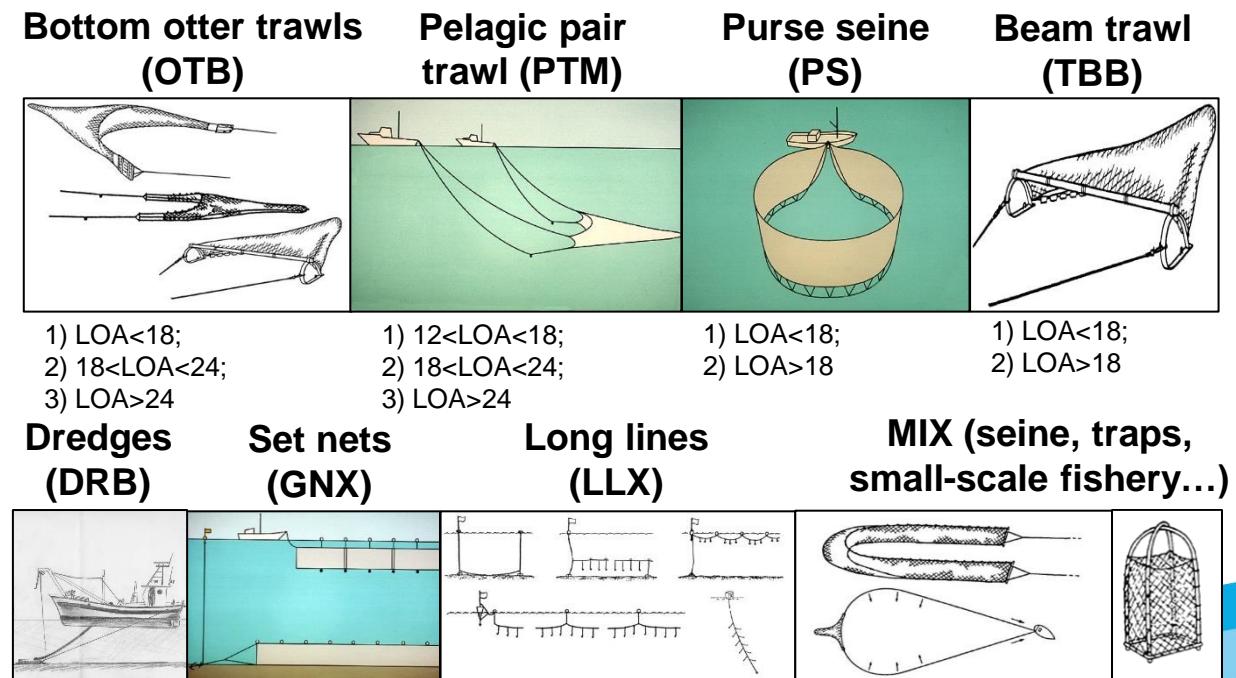
Year	number
2019	165513
2018	161121
2014	47064

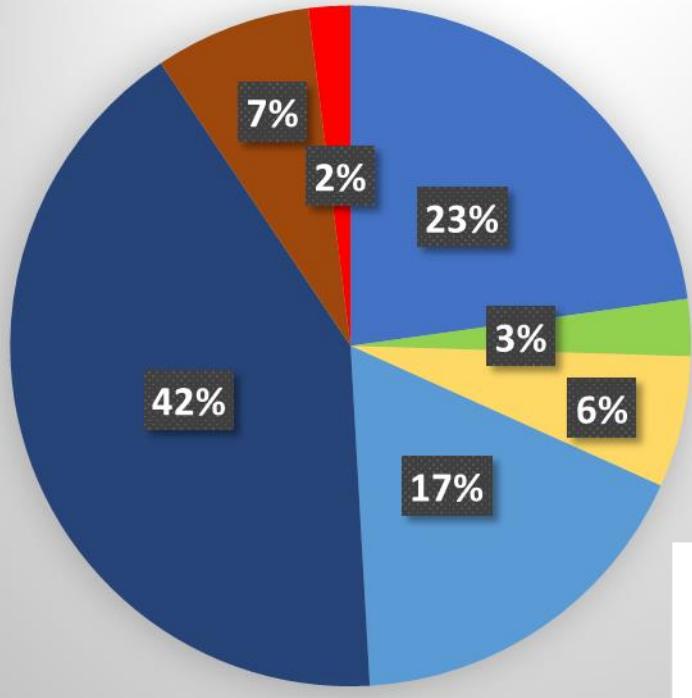
ASSUMPTION: ONLY 10% ARE ACTIVE

Ladings by PROFESSIONAL FISHERIES obtained disaggregated as much as possible (by country; region; gear; LOA and species) in GSA 17, 18 and 19. Sources:

- Mediterranean and Black Sea data call (MBS; ITA+HRV);
- Fisheries Dependent Information data call (FDI; ITA+HRV);
- Economic and social datasets data call (ITA+HRV);
- FAO FishStatJ (BIH; ALB; MON; HRV; ITA; SLO)
- Eurostat (ITA; HRV)
- Biosweb (SLO)
- Mably Scarl (ITA by region)
- Caccin A. (Veneto DRB; Market)

**15 fishing segments representing 8 groups of fishing techniques**



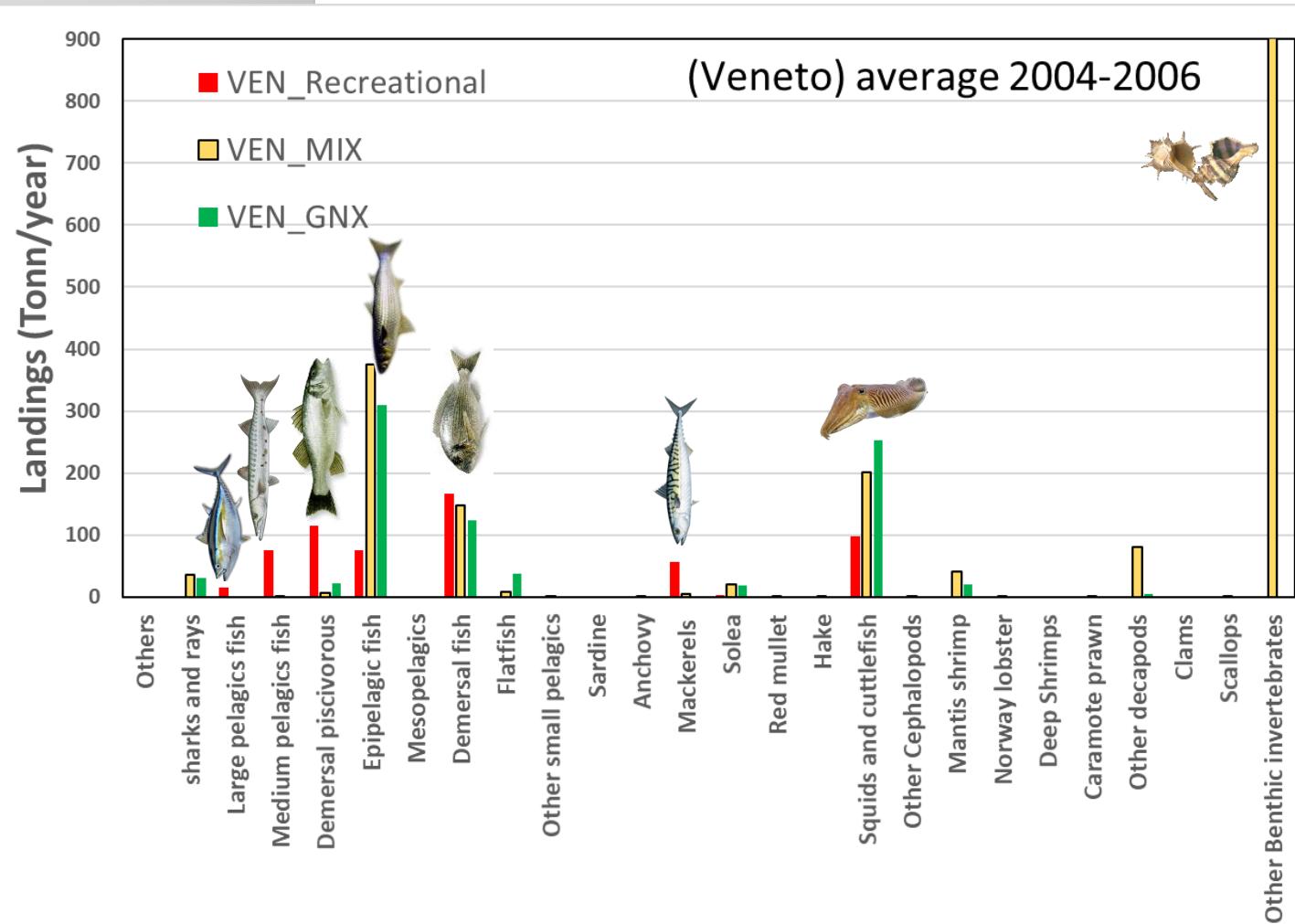


- VEN\_DRB
- VEN\_GNX
- VEN\_LLX
- VEN\_MIX
- VEN\_OTB
- VEN\_PS
- VEN\_PTM
- VEN\_TBB
- VEN\_Recreational

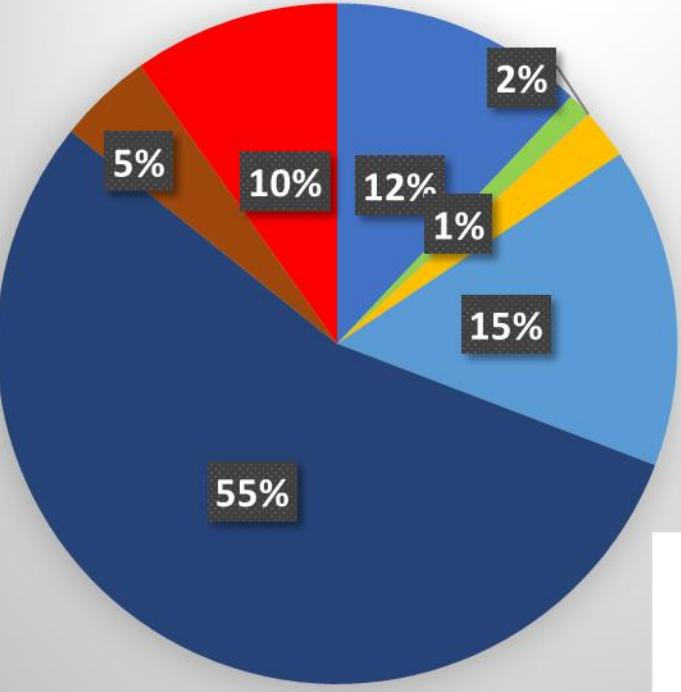
## average 2004-2006

TOTAL LANDINGS - VENETO: 30467 tonn

Estimated recreational 604 tonn



# True?

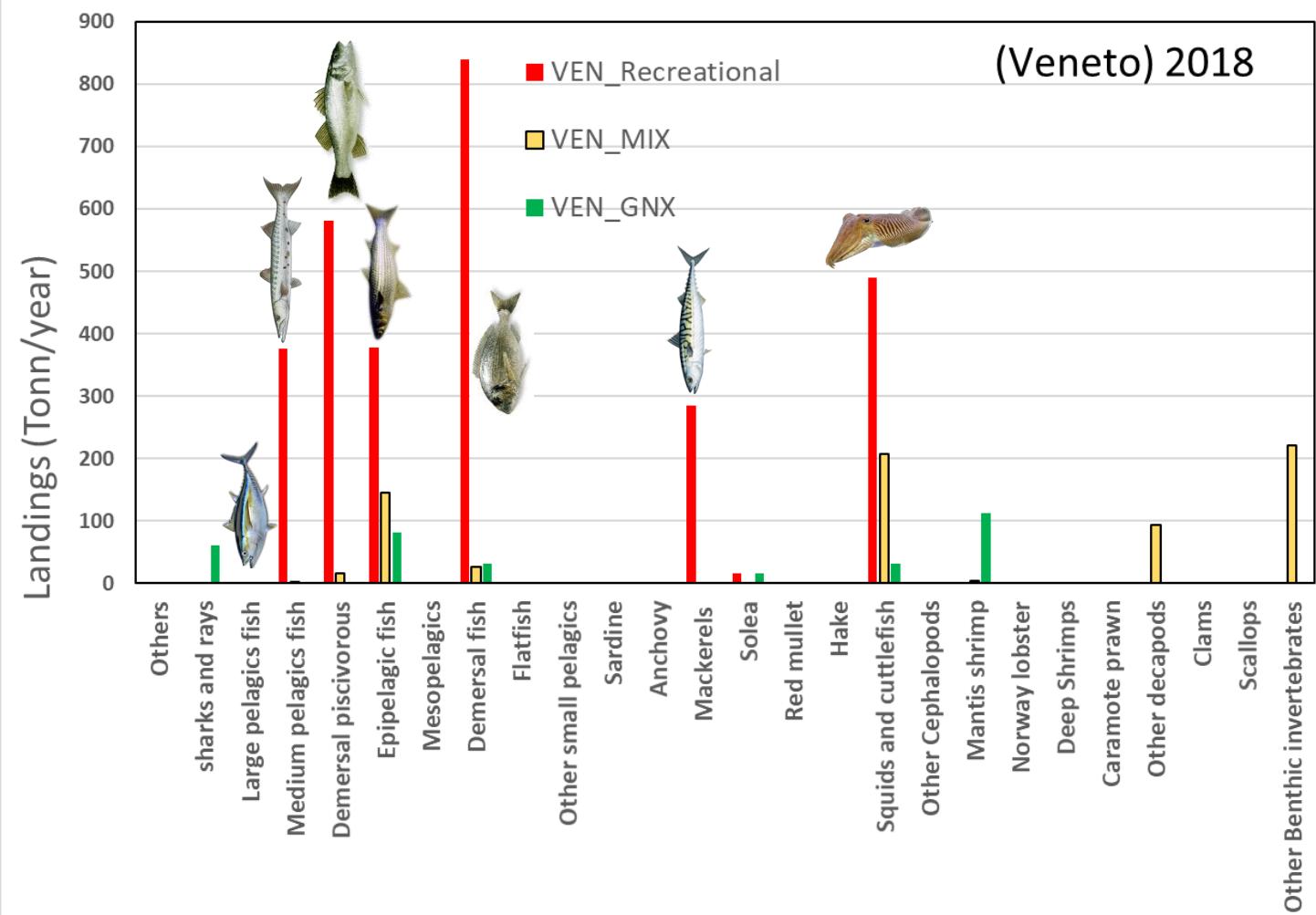


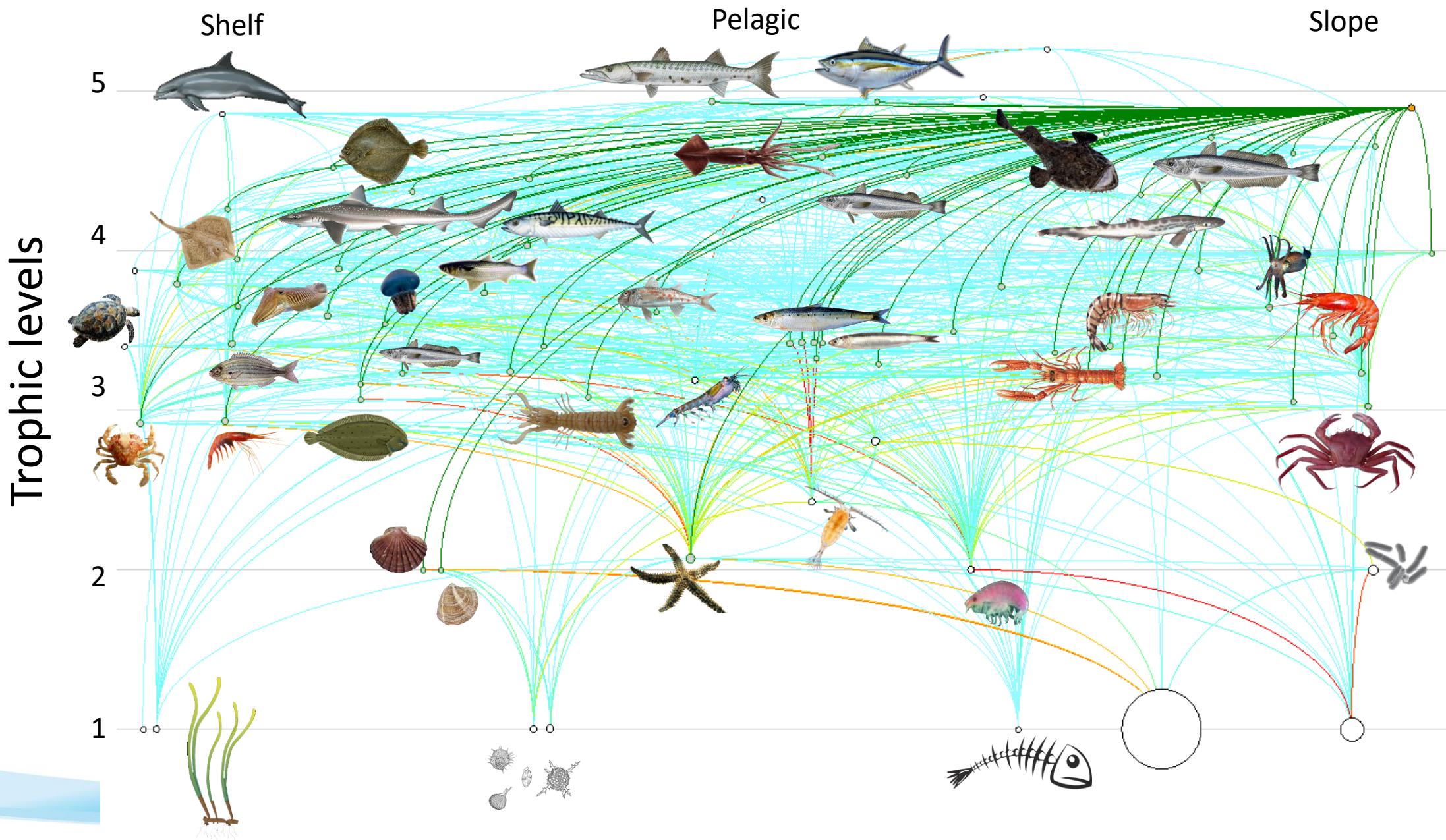
- VEN\_DRB
- VEN\_GNX
- VEN\_LLX
- VEN\_MIX
- VEN\_OTB
- VEN\_PS
- VEN\_PTM
- VEN\_TBB
- VEN\_Recreational

## average 2018

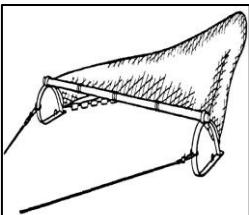
TOTAL LANDINGS - VENETO: 30268 tonn

Estimated recreational 2967 tonn



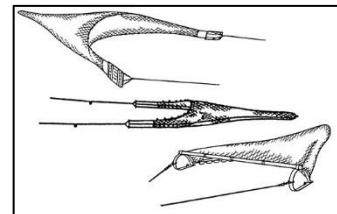


### Beam trawl (TBB)



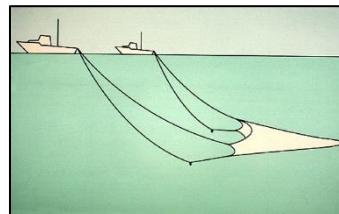
- 1) LOA<18;
- 2) LOA>18

### Bottom otter trawls (OTB)



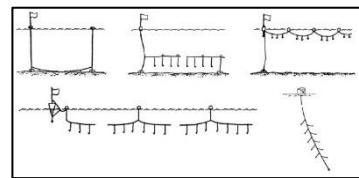
- 1) LOA<18;
- 2) 18<LOA<24;
- 3) LOA>24

### Pelagic pair trawl (PTM)

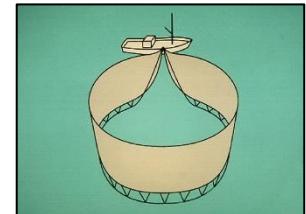


- 1) 12<LOA<18;
- 2) 18<LOA<24;
- 3) LOA>24

### Long lines (LLX)

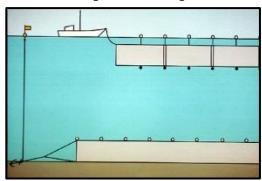


### Purse seine (PS)

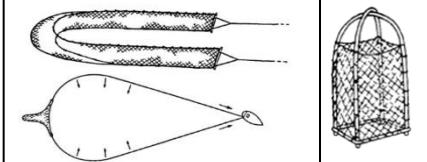


- 1) LOA<18;
- 2) LOA>18

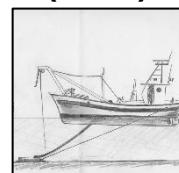
### Set nets (GNX)



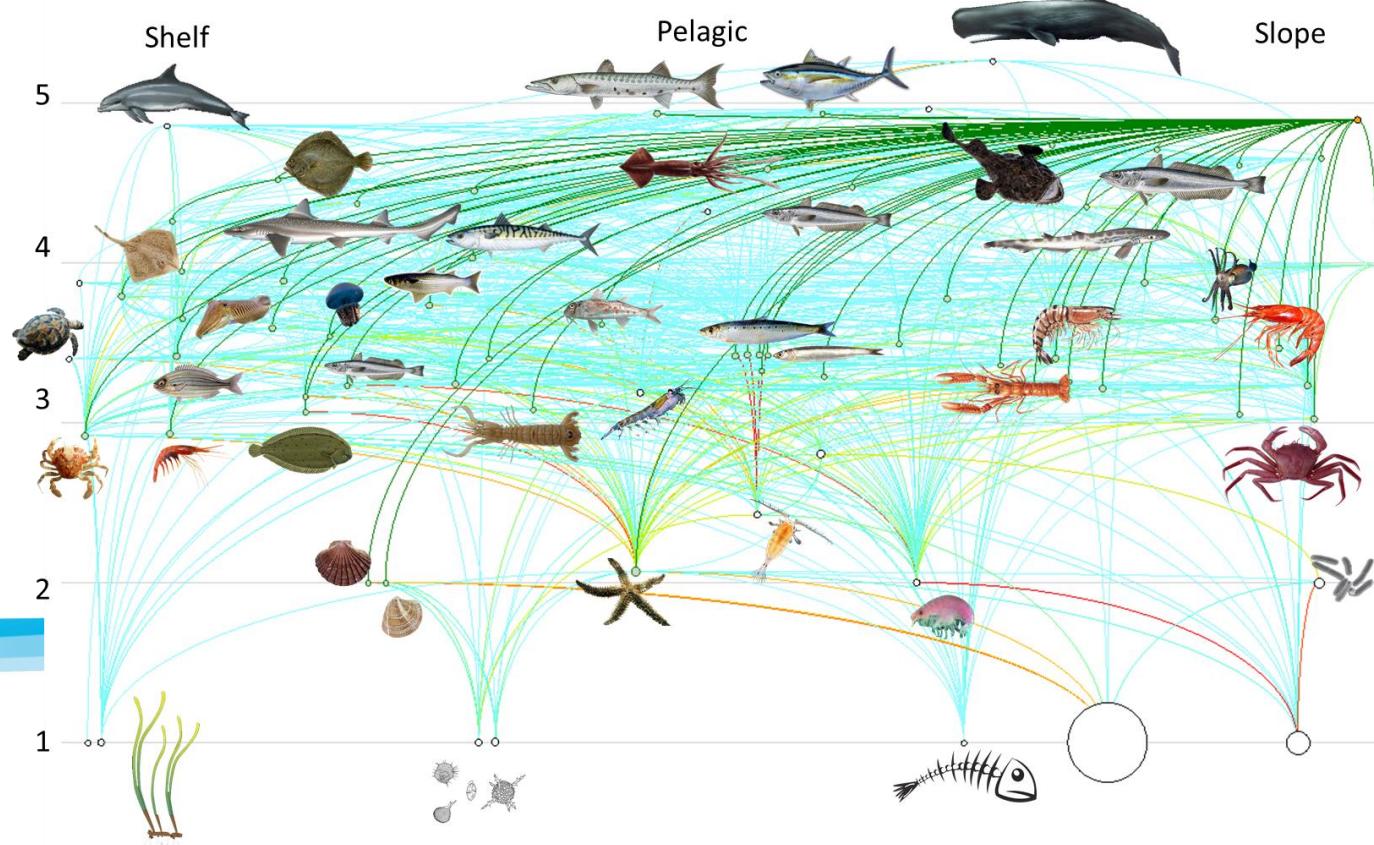
### MIX (seine, traps, small-scale fishery...)

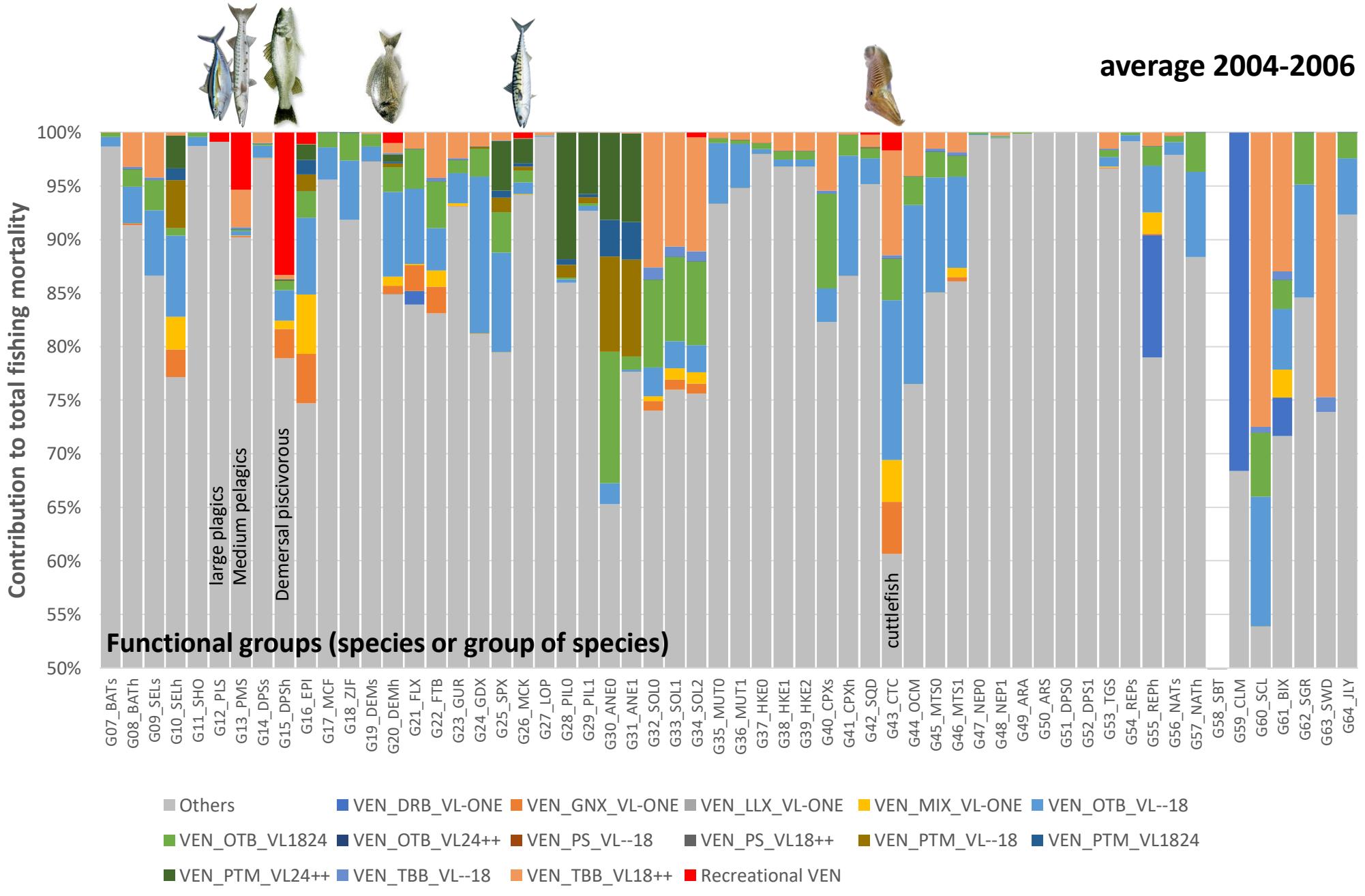


### Dredges (DRB)

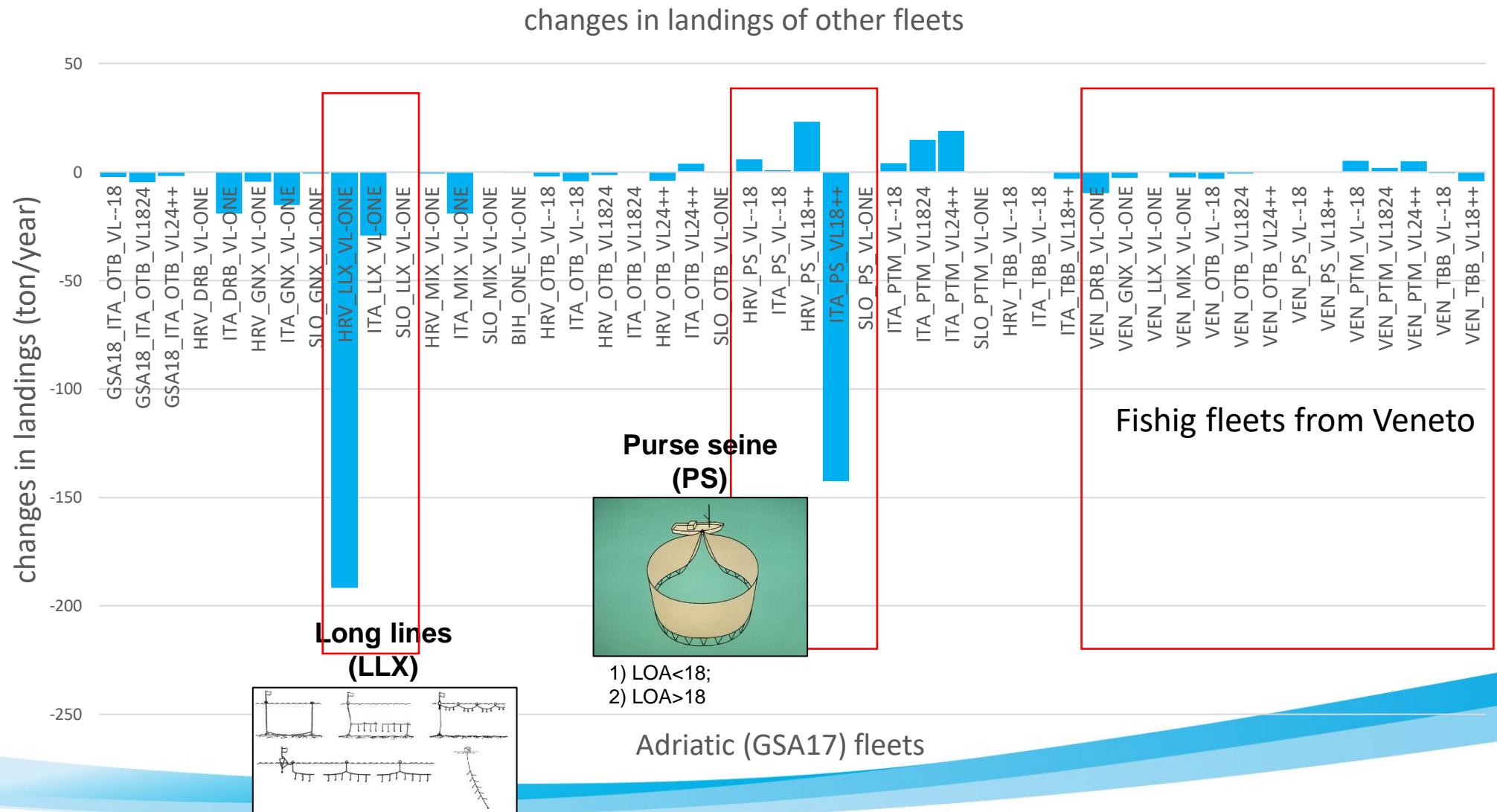


Trophic levels





# DRAFT increasing RECREATIONAL FISHERIES x 5 times in 10 years effects on other professional fleets (sensitivity modeling experiment)



**PRELIMINARY!**

# Points for Discussion (note this is a preliminary work)

Data shown (VENETO, Assumed only 10% active) suggests recreational fisheries is not negligible

Improving data gathering seems an important issue

Small scale fisheries declined and recreational increased: a possible link?

Interactions of recreational fisheries and other gears is far beyond small scale fisheries

NEXT STEPS: Temporal dynamics will be improved, Spatial scale will be explored: spatio-temporal interactions

Management scenarios to be performed? How to manage recreational fishers? (daily bag; restricted areas; restriction of registration)

# THANKS for the attention

The food web work is resulting from a large set of information gathered in the project also thanks to partners collaboration

Igor Celic, Natalia Serpetti, Pasquale Ricci and others contributed to the model development



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