











Sustainable Management of bycatch in Latin American and Caribbean Trawl Fisheries (REBYC-II LAC)

TTED and CTED initiatives in Suriname 2019 WIDECAST Annual Meeting













Tomas Willems REBYC-II LAC Project SURINAME



Turtle Excluder Devices









TED application in Suriname



Seabob shrimp trawling
Xiphopenaeus kroyeri
18-27 m depth
26 licenses



TED obligation since 1999



Penaeus shrimp trawling
Penaeus spp.
From 27 m depth
35 licenses



TED Obligation since 1999



Fish trawling

Demersal finfish (Sciaenidae, Ariidae, Lutjanidae,..) From 27m depth 35 licenses









TTED = Trash and Turtle Excluder Device

TED

3" TTED

2" TTED





















Some conclusions

- TED as a sorting grid: 'platform' for further bycatch reduction
- Fishermen are already used to the TED concept
- Balance between bycatch reduction and catch retention

Next step

- Testing the 3" TTED on a larger scale to confirm trial results

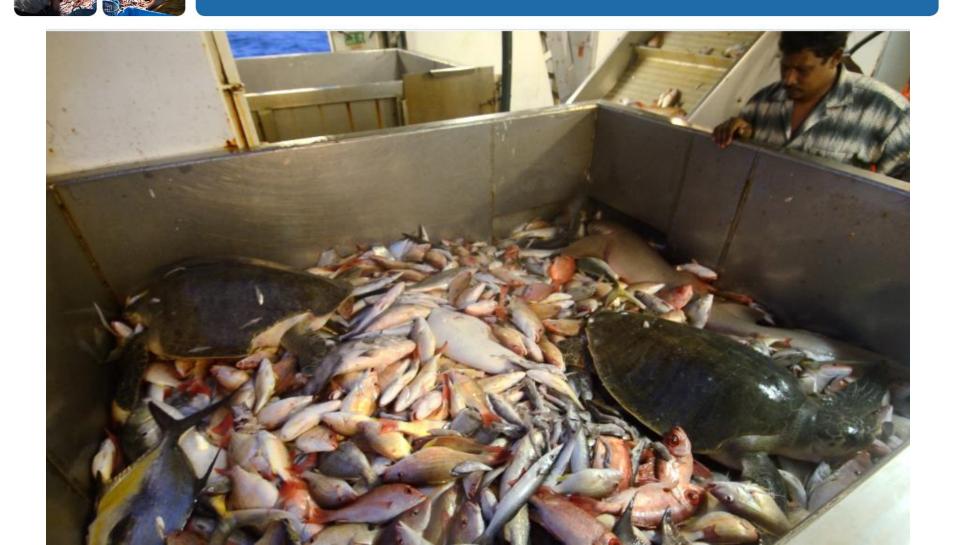














































Turtle Excluder Devices







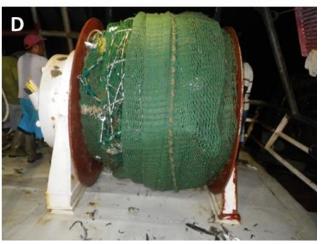








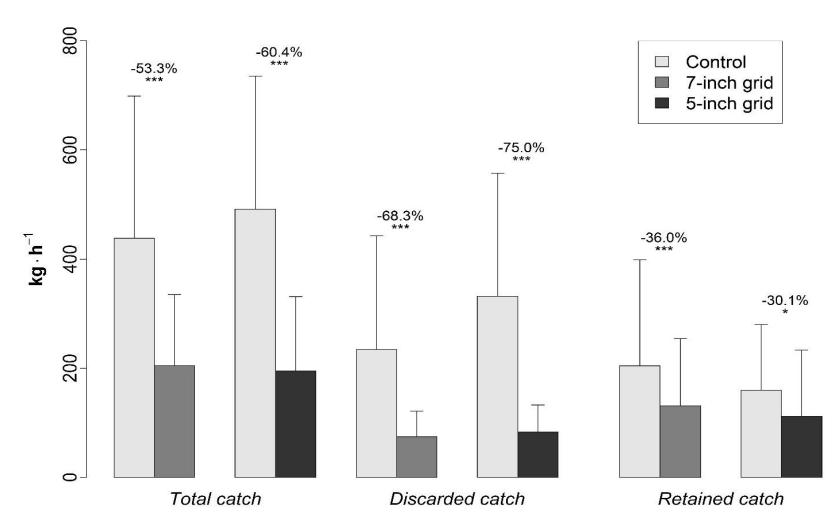
















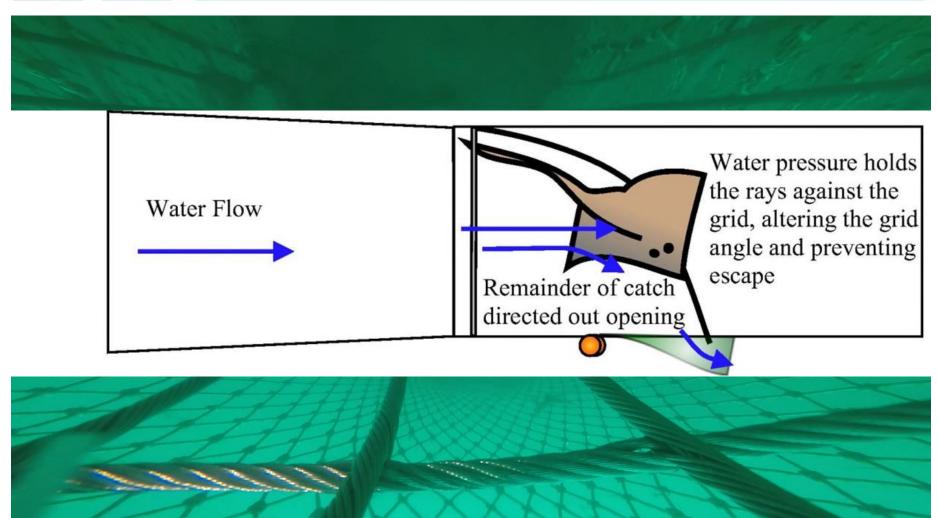






















Way forward...

- No size fits all: challenge to find a device for each fishery
- Balancing bycatch reduction and target catch retention
- Future work should include *Penaeus* shrimp trawlers and different types of fish trawlers
- Involvement of fishing industry is crucial
 - Field knowledge
 - Testing in real-life situations
 - Project ownership
- Weak enforcement at sea
 - Benefits for the fishermen must be obvious



















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Thanks to...

Nick Hopkins - NOAA Harvesting Systems

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