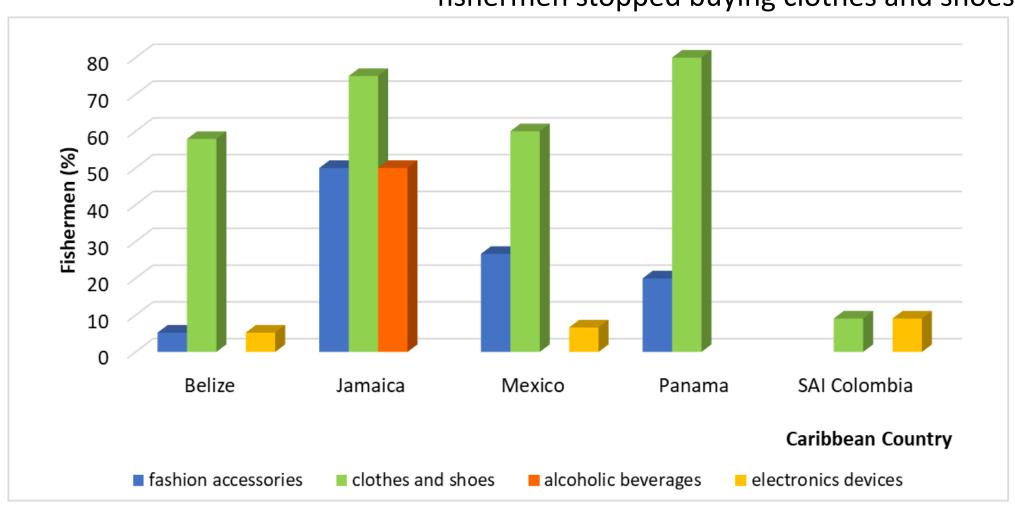
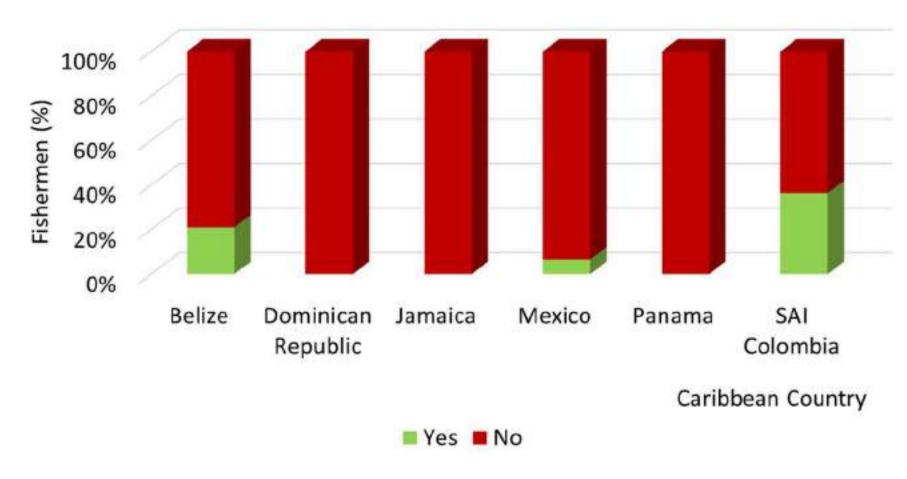
What personal supplies did you stop buying?

fishermen stopped buying clothes and shoes



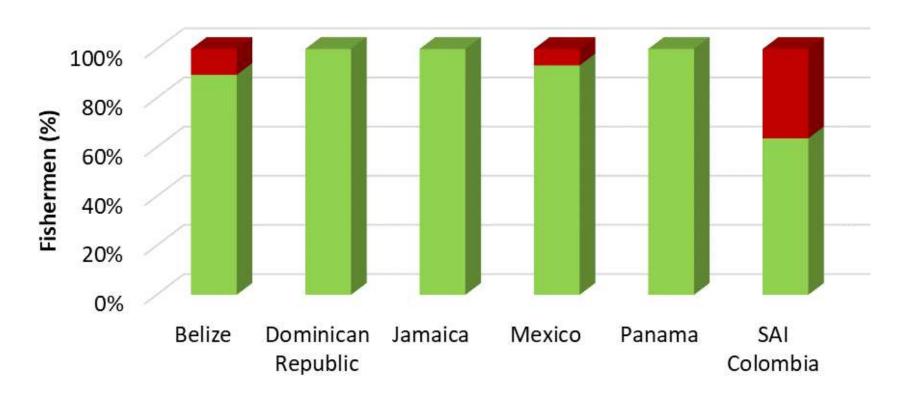


Catch decreased during COVID



Most fishermen said the catch did not decrease during COVID

You had mobility restrictions during COVID



Yes No

Caribbean Country

although in most countries there were mobility restrictions

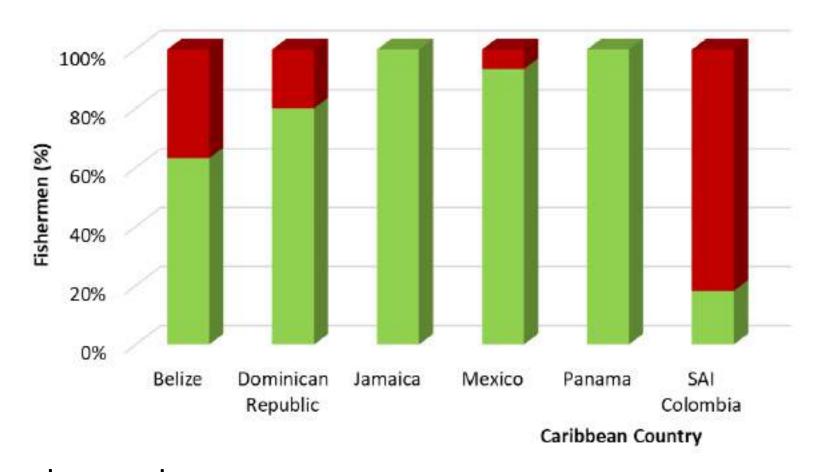
times/days that the fishermen went fishing

Country	Time (days)		
Belize	2		
Dominican	3		
Republic			
Jamaica	2		
Mexico	2		
Panama	2		
SAI Colombia	4		

• Impact on fishing market



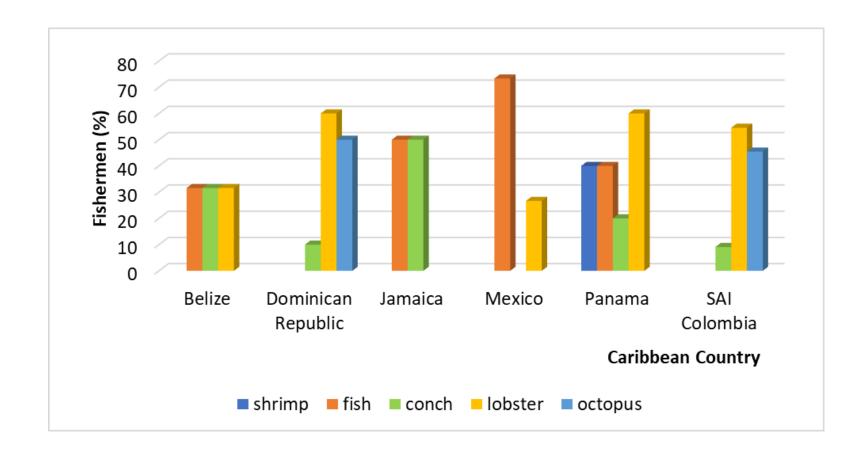
Demand for fish fell during Covid



■ Yes ■ No

In all countries, fishermen observed a decrease in demand for fish and seafood. Except in San Andres

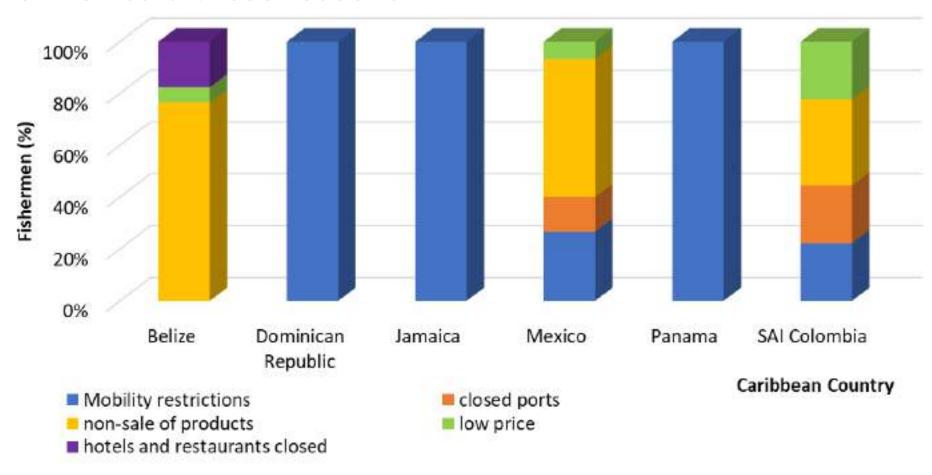
Products that presented low demand?



The fishermen observed that conch and lobster were the ones that presented low demand

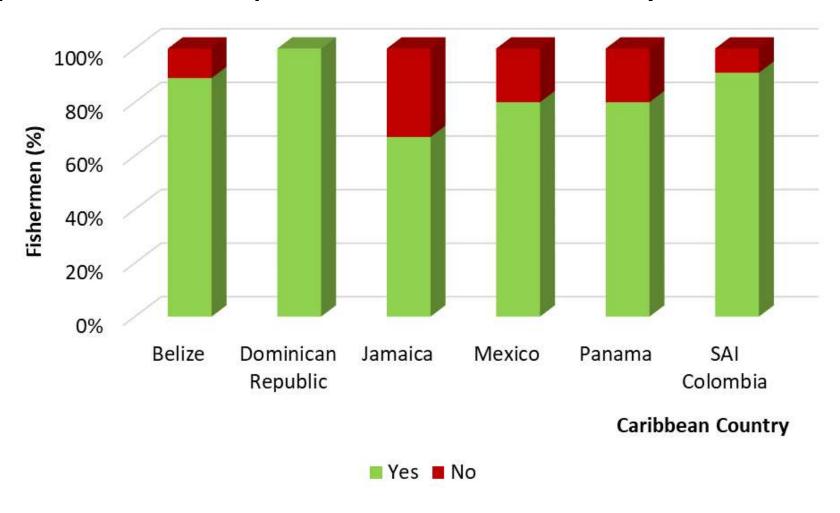
Why the seafood market was affected

The fishermen said these reasons





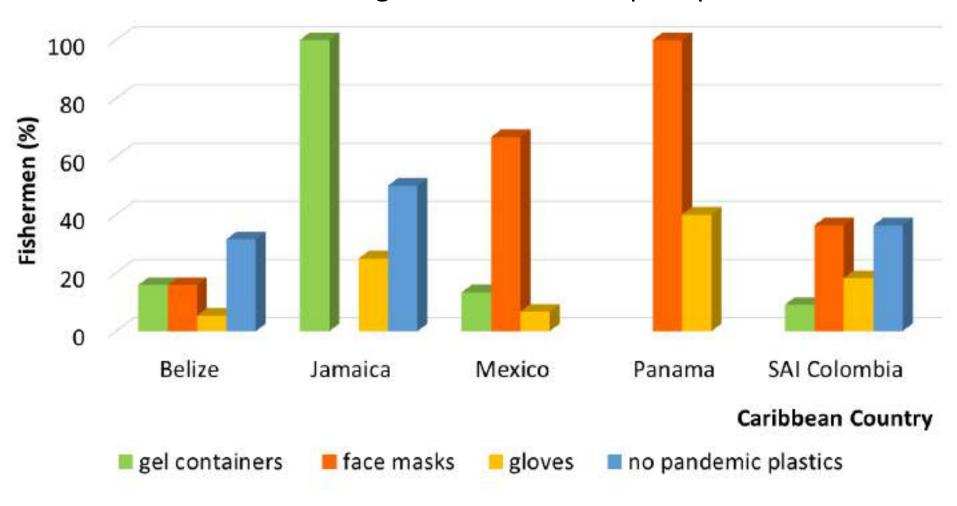
Did you notice plastic waste on your catch?



80 – 100 % of fishermen observed plastic pandemic. Except in Jamaica

Do you observe pandemic plastics?

Most of the fishermen observed face masks and gel containers. Except Republic Dominican





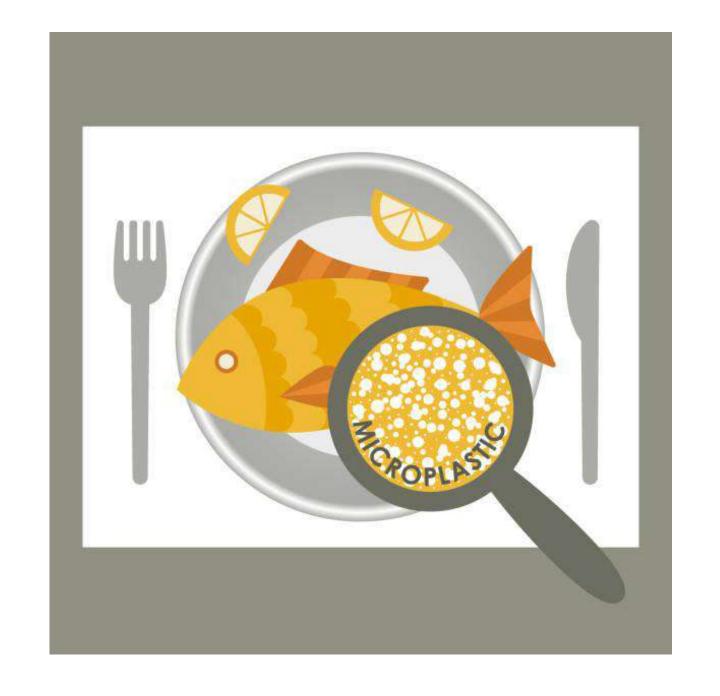
Today's microplastics are not yet the MP derived from the plastics used during Covid, However,...

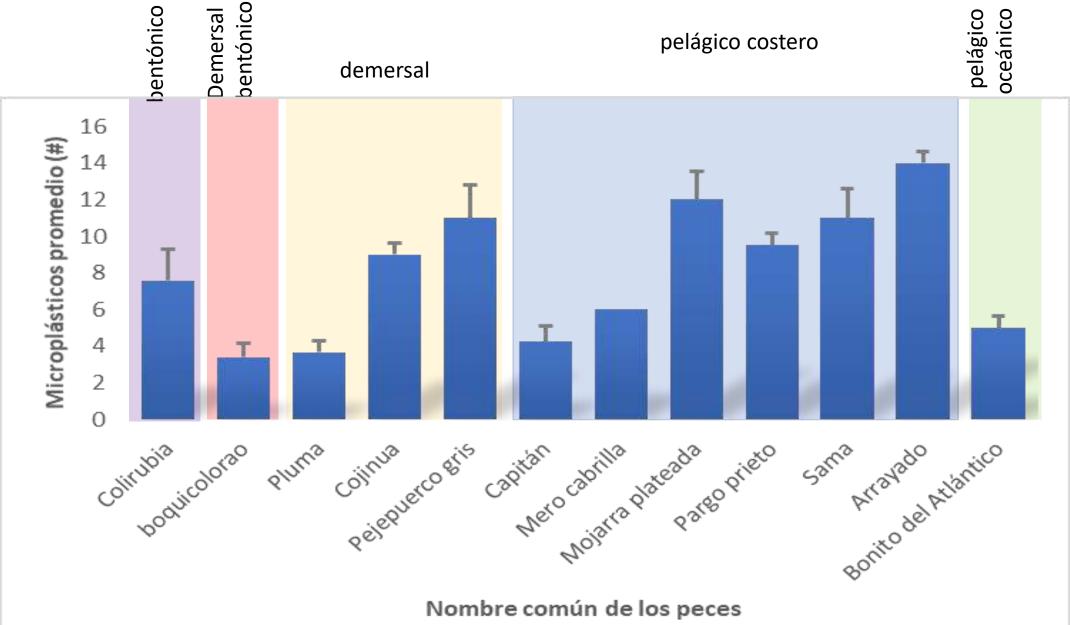
We study the MP in these fishes



https://biogeodb.stri.si.edu/caribbean/es/thefishes/species

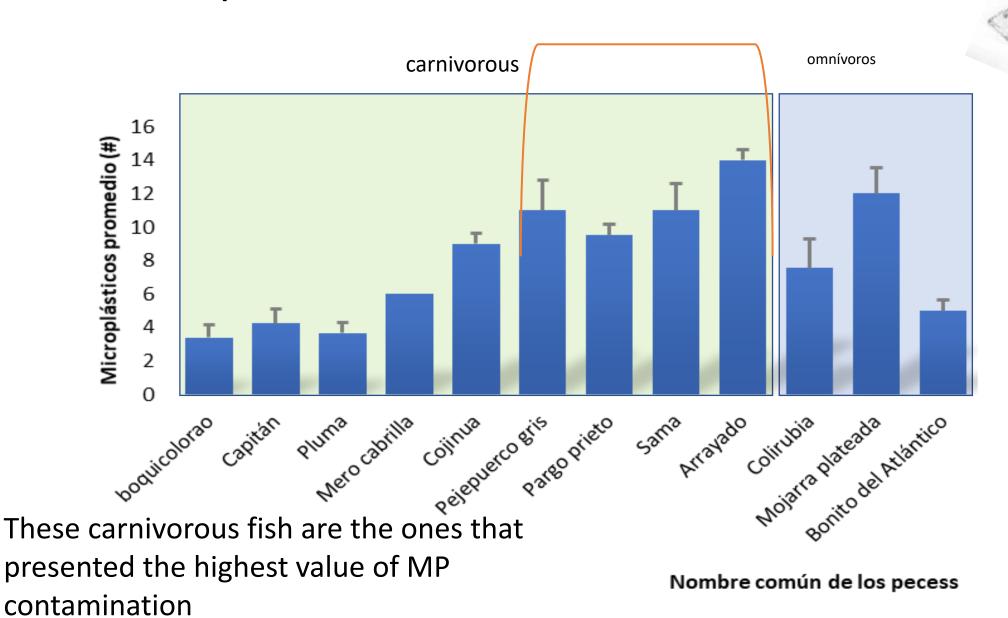
Results



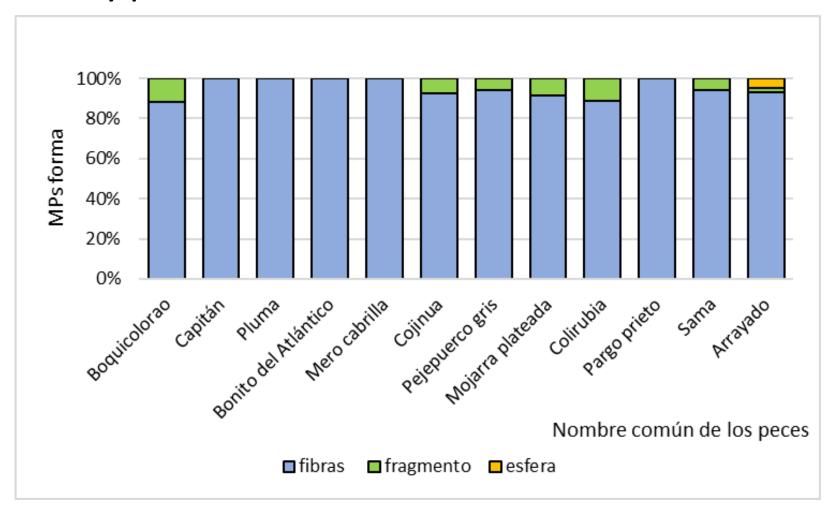


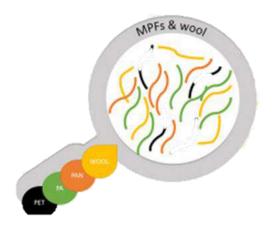
All fish had microplastics and their abundance was highest in fish from coastal and reef waters

MP per fish



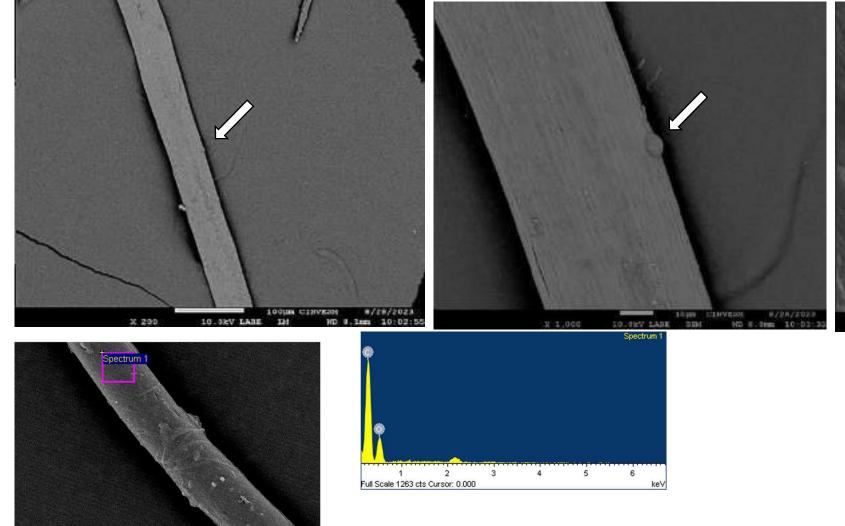
Types of MP



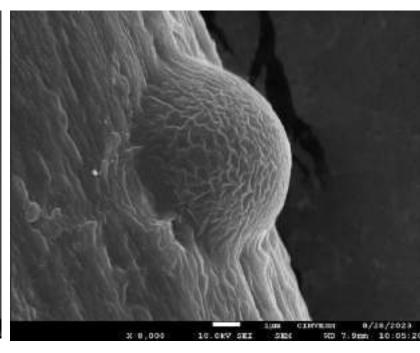


the dominant form of MP was fibers (90%)

MPs are frequently vectors for the transport of microorganisms.

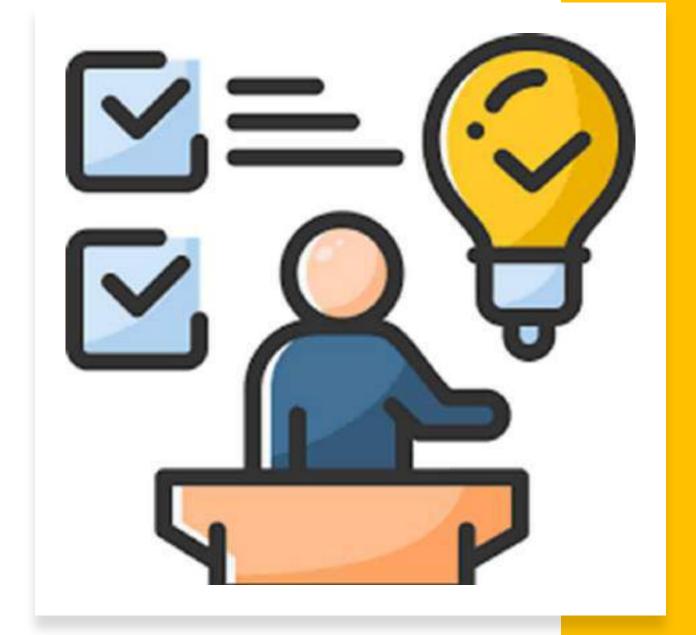


Electron Image 1



Effect of COVID on fishermen in the Caribbean

- Fifty percent of the fishing population was infected by Covid-19
- Fishermen spent a lot of money in face masks and medications
- The diet was modified, stopping the consumption of animal protein, shoes, clothes, and fashion accessories.
- The fish and seafood market was affected by mobility restrictions, closed ports, low prices, and the closure of hotels and restaurants.



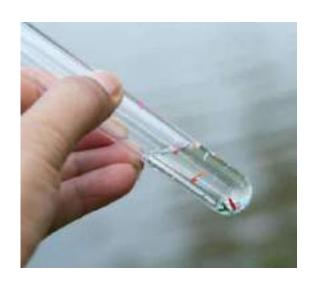
- All the fish analyzed presented MP, these being more abundant in coastal and reef fishes.
- Fibers are dominants
- Micro plastics frequently showed micro organisms as bacteria



Markets cetification of MP

 Markets are already requesting certification of MP contamination and fish and seafood will not be the exception







Recommendations



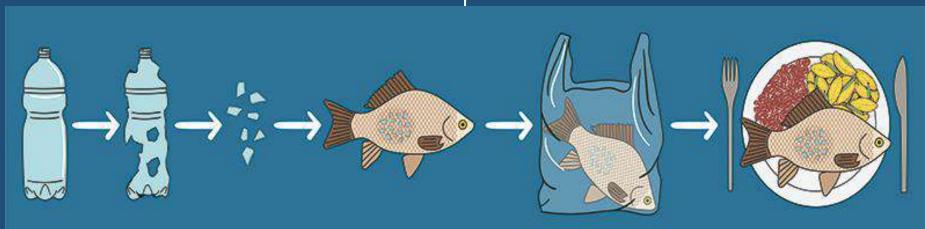
It is important to show the relationship between MP pollution and human activities

At this meeting, I would suggest preparing an exhibition with this topic

Outreach recommendations



Exhibition on this "invisible pollution" associated with our production model





To live like this



And not like this

















Education + sustainable actions







Humanitos ... Ya no sabemos si somos obras maestras de Dios o chistes malos del Diablo.

Eduardo Galeano

Contacto: <u>daldana@cinvestav.mx</u>

Dalila Aldana Aranda

