

# Plastic Pollution Effects on the River biodiversity: Cleaning of Plastics by *The Interceptor Ship*, in the Paraná City New Port.



Universidad Tecnológica Nacional, Facultad  
Regional Paraná, Civil Engineering Department,  
Ingles I

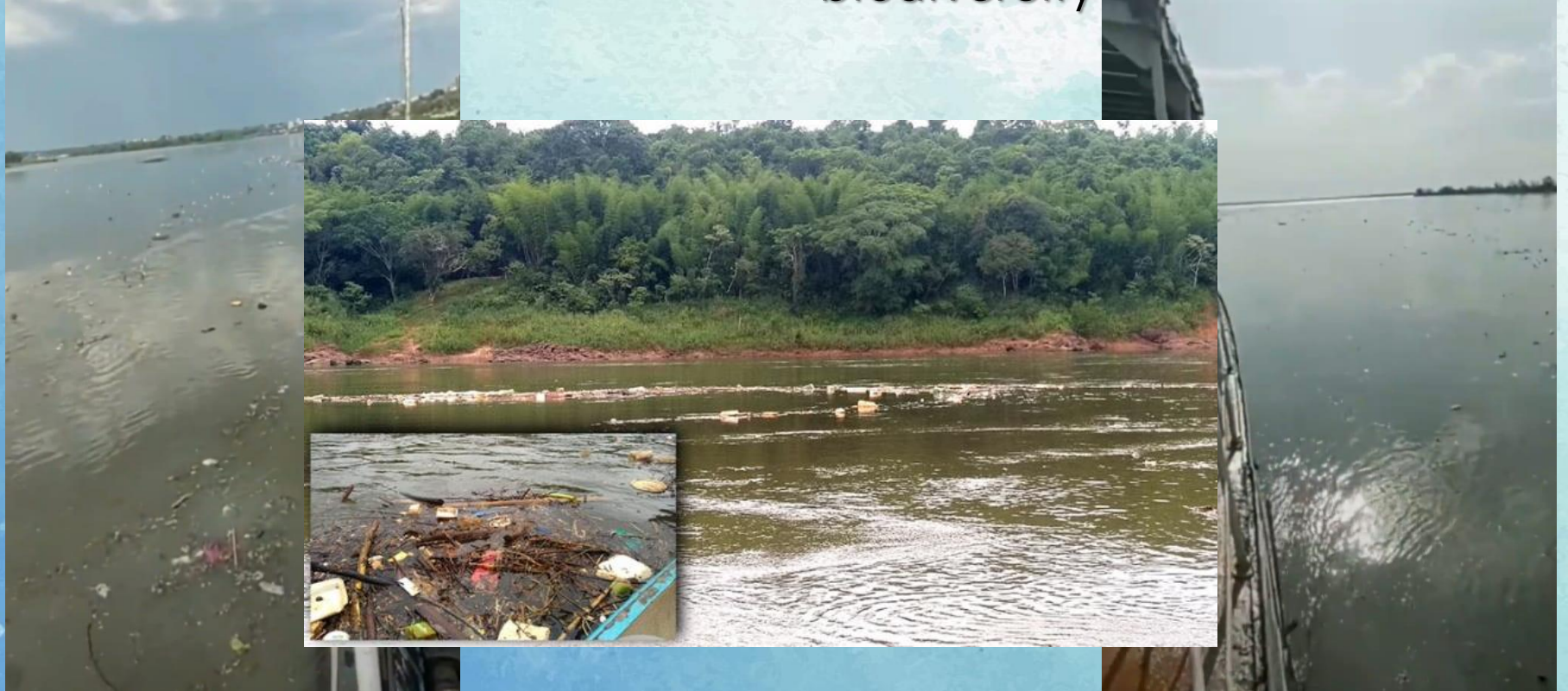
2022

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- Romero, Ariadna

*This work is an EFL engineering student project. The pictures and content in this presentation are only used for educational purposes. If there is any copyright conflict, they will be immediately removed.*

There is not good management of plastic waste and this poses a great danger to the river biodiversity





# The problem of plastic pollution in the Paraná River

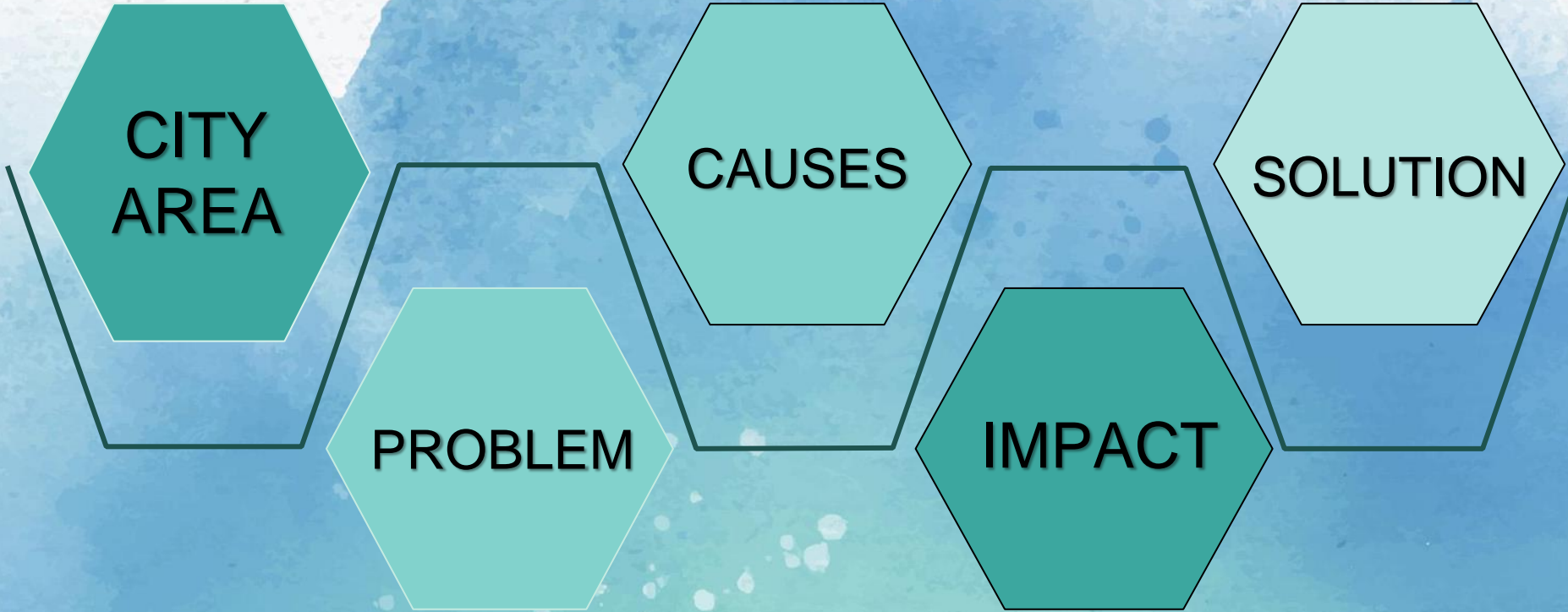
Problem Statement



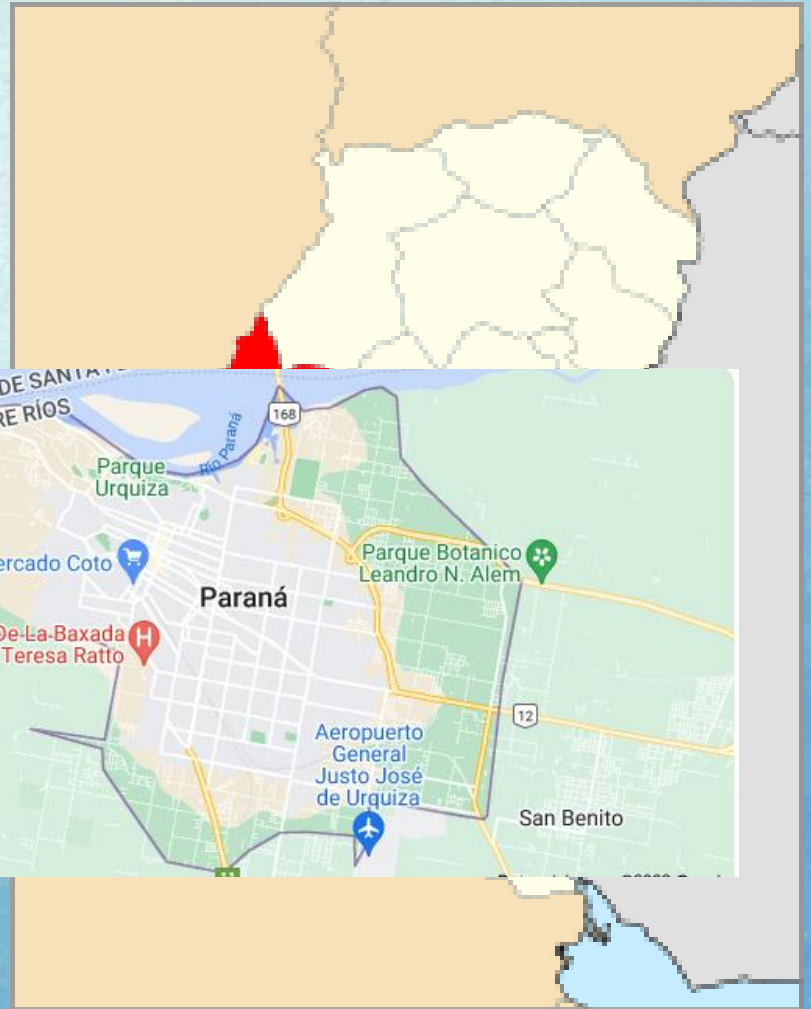
Problem Analysis

Discussion of a solution





# View of the Paraná River and the City of Paraná







# Colectividades Square



This is an ice cream shop and a disco





“Las Provincias” square







Aduana Paraná



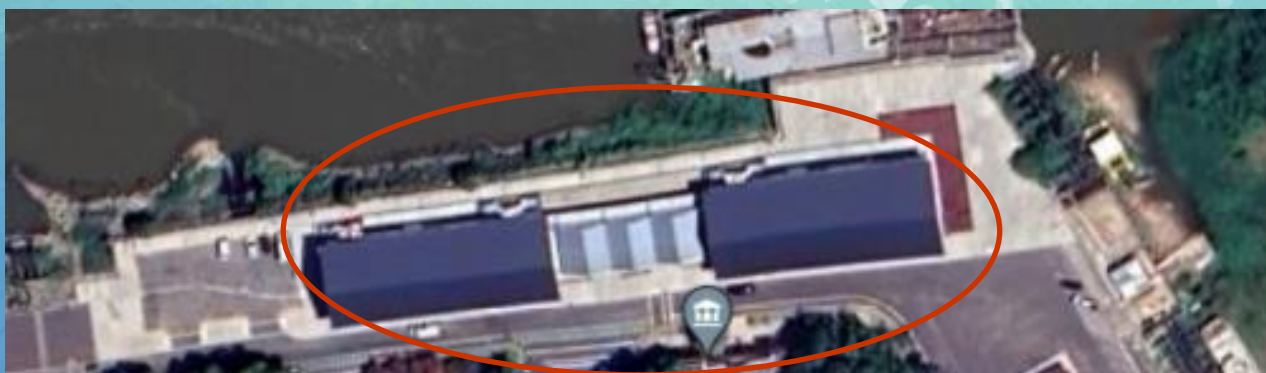
The Naval  
Prefecture building



The Customs  
of Paraná







 The Sala Mayo  
Convention Center



The walk of the  
port with its  
viewpoints.





Here is the  
Breakwater 1



The port  
overlooking the  
island

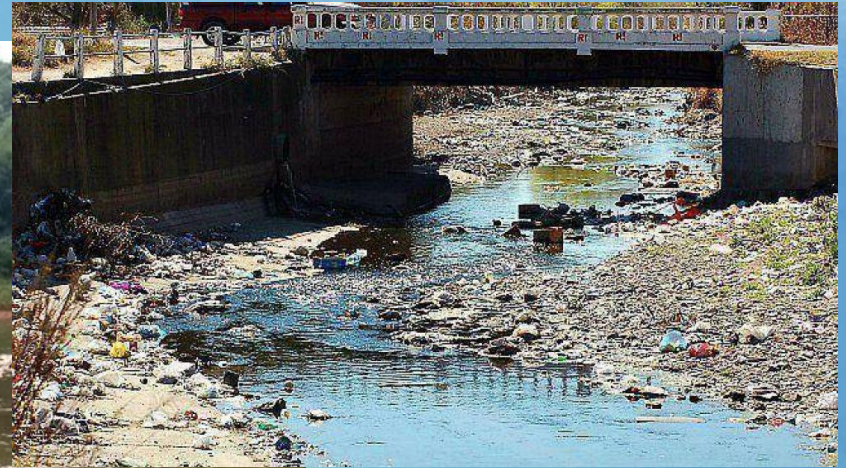


# The pollution of plastic waste in the Paraná River is worrying

Waste sorting and treatment plant



“Antoñico” stream



Waste floating in the Paraná River





The plastics take  
between 100 and 1000  
years to decompose



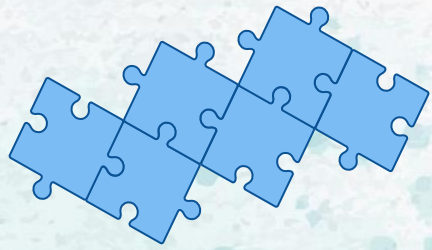
The plastic waste  
becomes  
microplastics



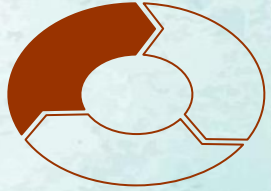


# The pollution in different areas around of the Paraná River



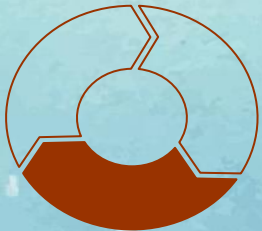
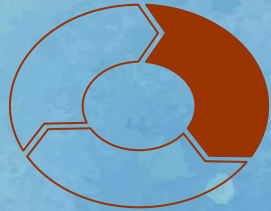


# Causes that give rise to the problem of the plastic pollution



Uncontrolled production of plastic products

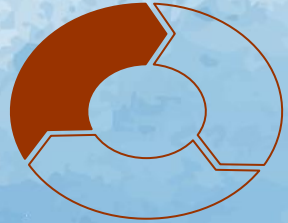
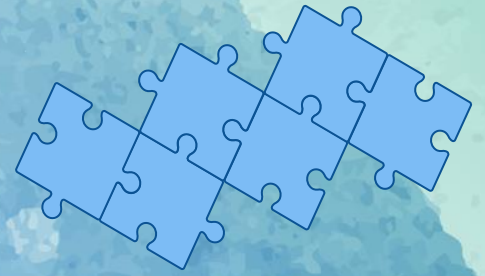
Continuous and excessive consumption of plastic products



General lack of awareness among the government and population

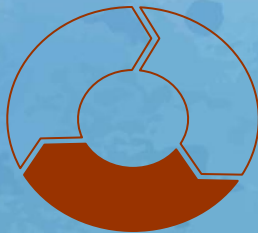
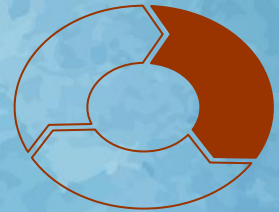


# Consequences that give rise to the problem of the plastics pollution



The microplastics are being consumed by fish in the Paraná River

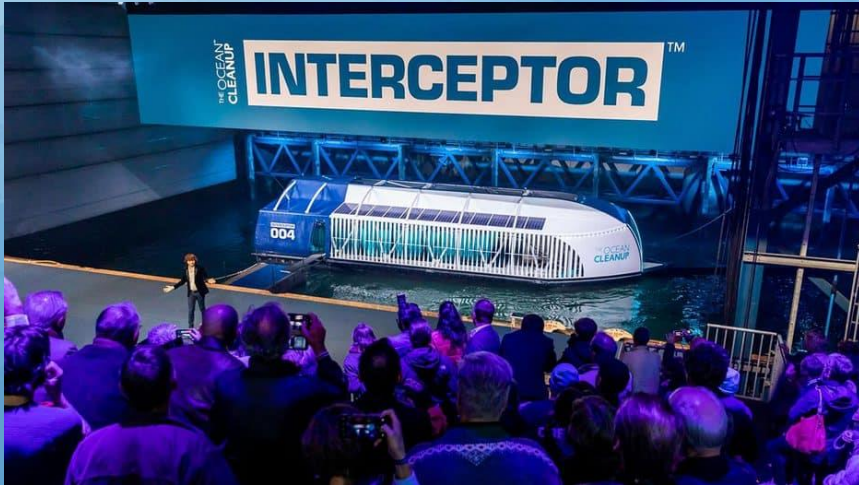
The water is not suitable for consumption.



The food is contaminated

# Solution Approach

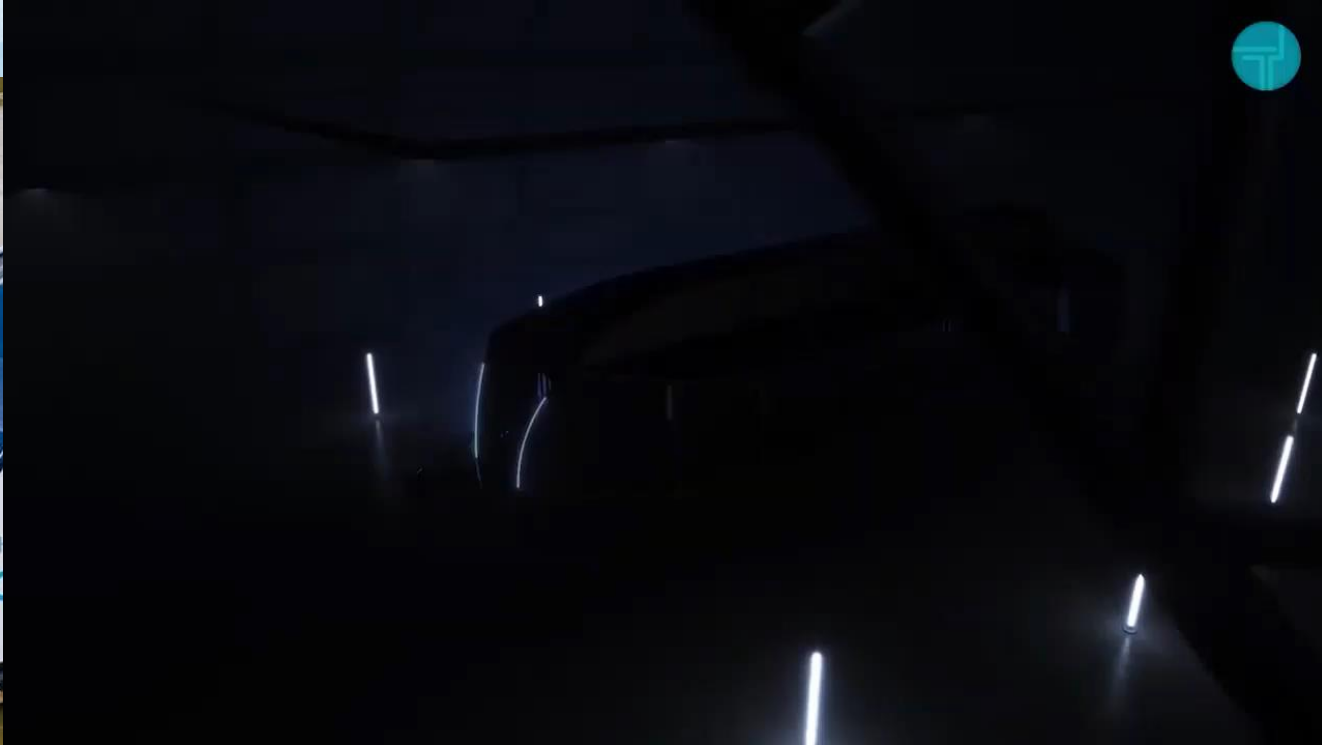
October 2019,  
Boyan Slat



The Interceptor  
Original



# Description



Source: Complete video “Tendencias Tecnológicas”  
<https://youtu.be/wlO1kYJwaG0>

# Steps for its operation

## Barrier





# Conveyor belt

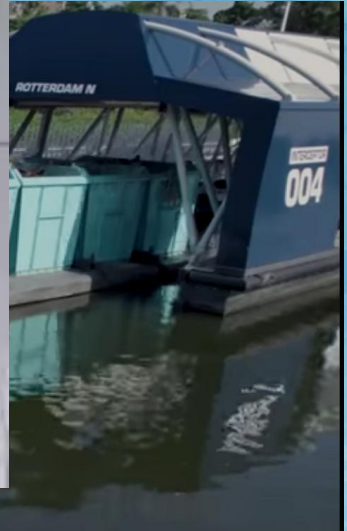


# Shuttle





# Dumpsters



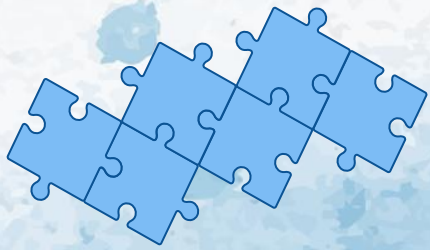
# Empty and recycle



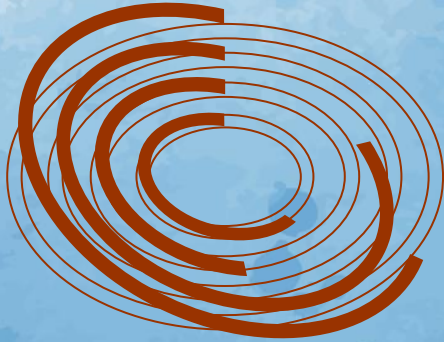
You can find more information about the Interceptor Ship on this site:

<https://theoceancleanup.com/rivers/interceptor-original/>



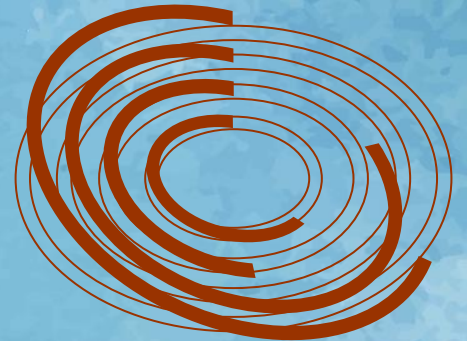


# Strengths

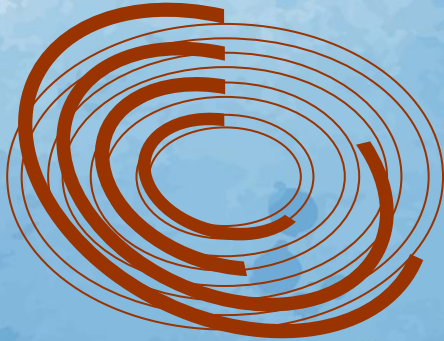
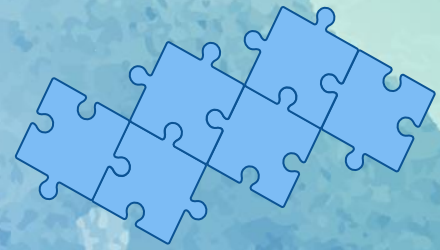


The Interceptor does not affect river biodiversity.

The Interceptor has automated operation

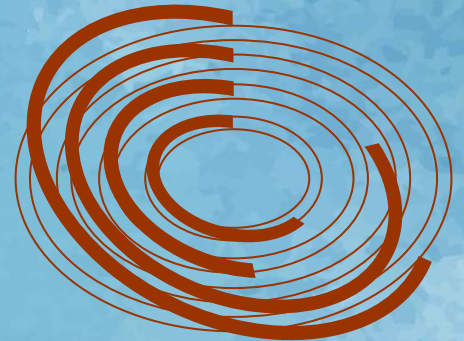


# Weaknesses



The State needs to invest a lot of money on this technology

The Interceptor requires maintenance





# Conclusion



Use of Interceptor Original



Pollution in the River

Awareness of the fact that plastic waste affects biodiversity



**PARANA**

# Limpia

tu ciudad tu mente

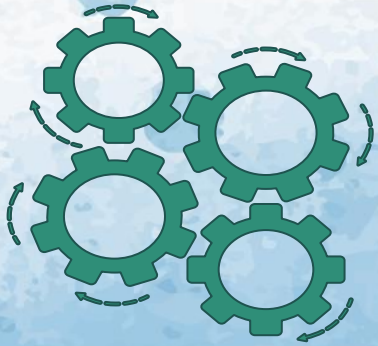
yes! Plus



Limpiamos el Rio ¡Sumate!  
SÁBADO 15 de Febrero 9:00 hs  
Playa Thompson - Paraná  
Más info: Nerina 343-4690333







Thanks for  
your attention

