River Contamination: Clean up of the Paraná River

Universidad Tecnológica Nacional Facultad Regional Paraná

Electronics Engineering Department, Inglés I

2022

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.



Lucas Heit & Elian Ulrich



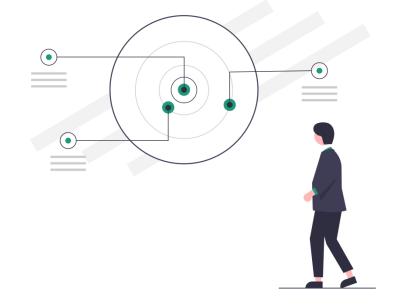
We are unkind to the natural world and we keep throwing plastics and all our garbage directly into the river.

We are sacrificing our natural environment and ourselves in the long term for physical convenience and ease of living in the short term.



The goal

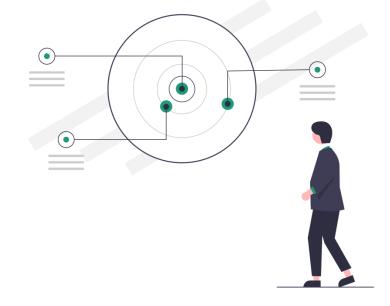
To search for a practical and efficient solution to address the contamination of the Paraná river produced.





The goal

To approach the problem so as to clean, protect, and provide a safer water supply to the people and wildlife in many cities and towns.





Geographic Context and Location

The Paraná River has four thousand and eighty kilometers (4880km).





Geographic Context and Location

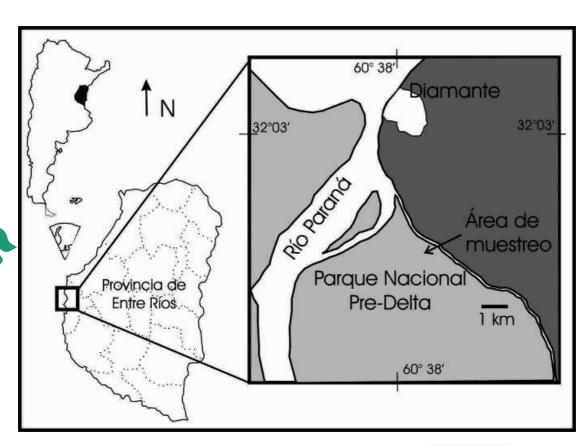
It has three well-defined parts:

- The High Paraná
- The Middle Paraná
- The Low Paraná





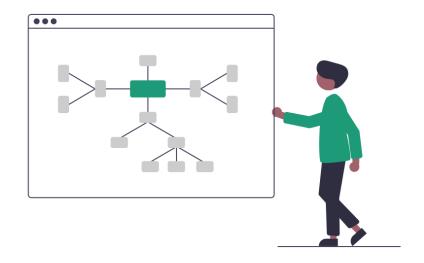
Geographic Context and Location





Map of the presentation

- Description of the problem
- Statement of the problem
- Definition of causes and factors of the problem
- Description of consequences of the problem.
- Description of different solutions to the problem
- Detail of strengths and weaknesses of the proposal





Problems



















Current Situation



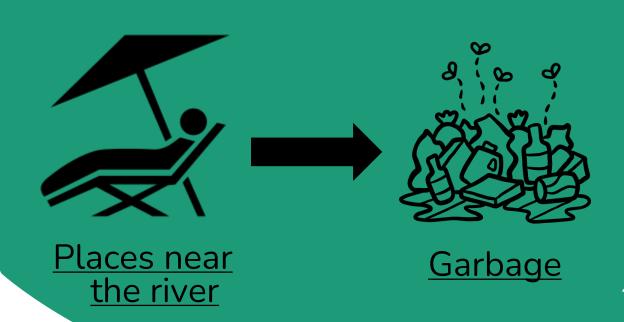








Causes and Factors





Causes and Factors





<u>Factories</u>



Consequences



Neurotoxic effects



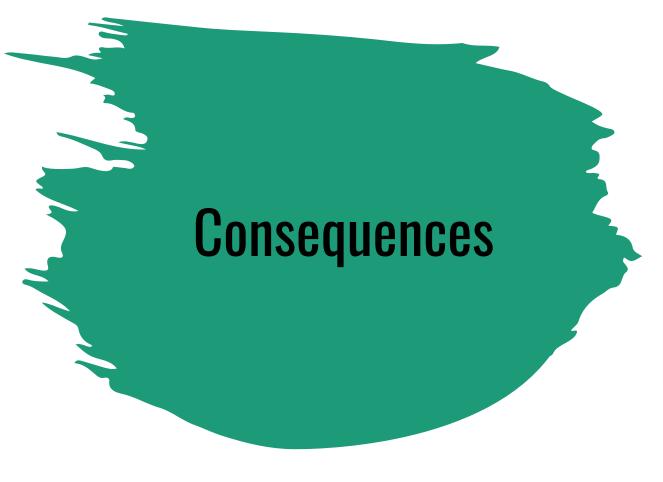


Consequences



Death of fish



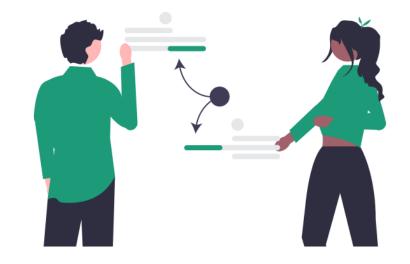






Problem Approach

The objective of this Project is the clean up of the river in a part of it or its entirety. To do this, it is possible to implement certain actions that should improve living conditions, health and the environment.





Awareness raising actions



Household chemicals disposal



Recycling of waste



Political Actions



Incentives Programs



Legal policies

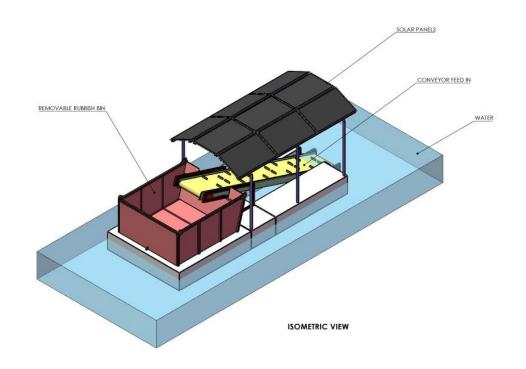


Monetary penalty



Engineering developments

Solar powered automatic river cleaner





Engineering developments

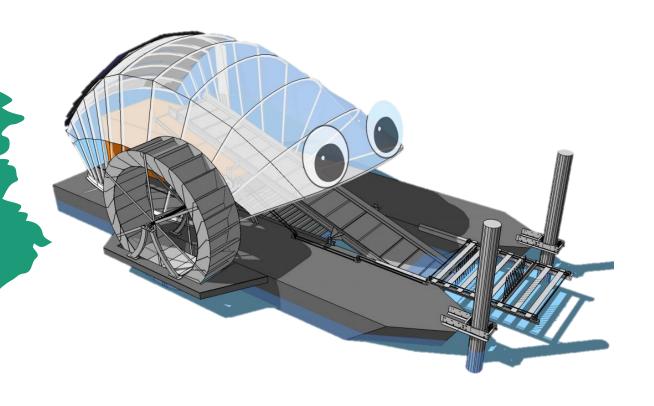
Solar powered automatic river cleaner







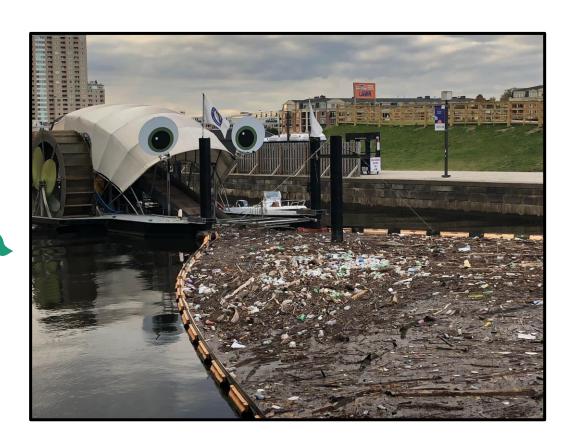
Mr. Trash Wheel





Engineering developments

Mr. Trash Wheel





Strengths

Changes

Small individual actions are not difficult.

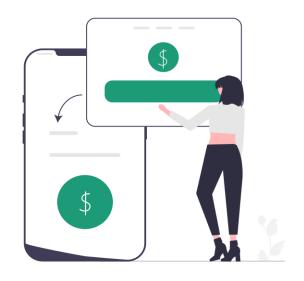




Weaknesses

Cost

Unfortunately not everything is inexpensive.

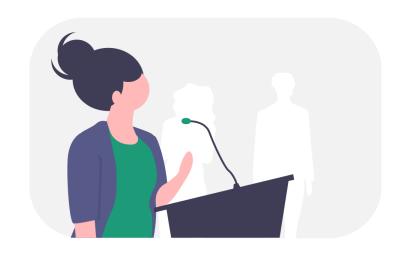




Weaknesses

Present State

Proposing a way of thinking is important.





Weaknesses

Awareness

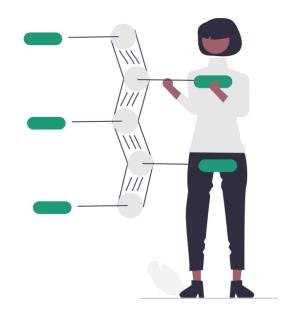
Learning is the most difficult beginning.





Conclusion

The project seeks a solution that can help reduce the pollution of the river, because since the river is alive, a lot of species live there too. We use the river for our needs. So we should understand the importance of this.





Thank you for your attention!



River Contamination: Clean up of the Paraná River

Universidad Tecnológica Nacional Facultad Regional Paraná

Electronics Engineering Department, Inglés I

2022

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.



Lucas Heit & Elian Ulrich