

Sustainable Improvement of the University Premises: Ecological Asphalt at the UTN FRP Parking Lot.

Names of the members of the group:

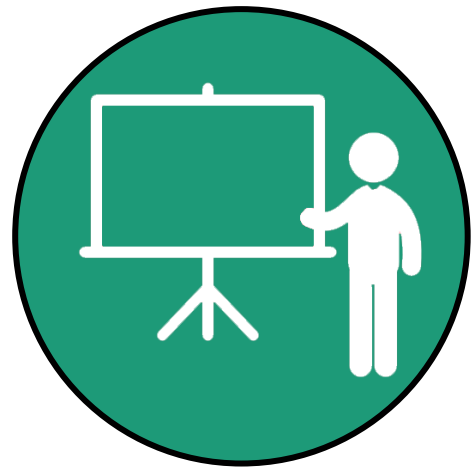
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National Technological University
Paraná Regional School
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Department
Inglés I
2022



Introduction

- Parking conditions and possible solution.
- Environmentally friendly and sustainable solution.



Map of the presentation

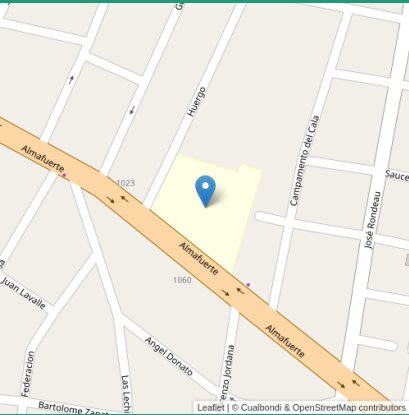
1. Show the area that is the focus of this work.
2. Describe the context and mention the causes of the problem.
3. Describe the consequences of the problem.
4. Present a possible solution to the problem.
5. Describe the solution process with its positive and negative aspects.

Problem Definition and Analysis

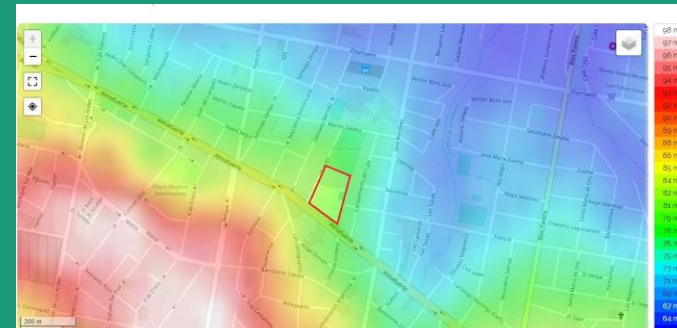
- Paraná city, province of Entre Ríos.



- National Technological University
Paraná Regional School of Engineering.



- Graph of the area and the height above sea level.



What is the problem ?

- The parking is made of soil with stones and is not covered.
- It is closed on rainy days
- Students and workers are not allowed to use it on those days



Pictures of the problematic situation



Causes:

1. The parking lot is not adequately maintained.
2. The parking lot does not have a roof



Consequences:



- Vehicles should be left outside the parking lot.
- The surrounding streets are full of parked cars and it is very difficult to find a free spot.
- Cars don't have the same protection.



Solution approach

Positive aspects

- ✓ Flexibility
- ✓ High resistance to climate factors
- ✓ Increased durability
- ✓ Easy cleaning
- ✓ A non-slip surface

Negative aspects

- ❖ High cost
- ❖ Poor compactness
- ❖ Low water resistance
- ❖ Poor mix composition



EPDM (ethylene propylene diene rubber)





Conclusion

- Reducing water potholes
- Facilitating the care of the parking lot
- Parking inside the premises
- Helping the environment.



Thanks!

