

Trucks in the Streets: City Reorganization and Improvement in Urban Traffic in Esperanza, Santa Fe

National Technological University
Paraná Regional School

Civil & Electronics Engineering Departments, Inglés I
2023

Members:

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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.



Introduction:

Esperanza:



- *289 square kilometers*
- *42,082 inhabitants*
- *between 30 and 40 trucks parked in the city.*

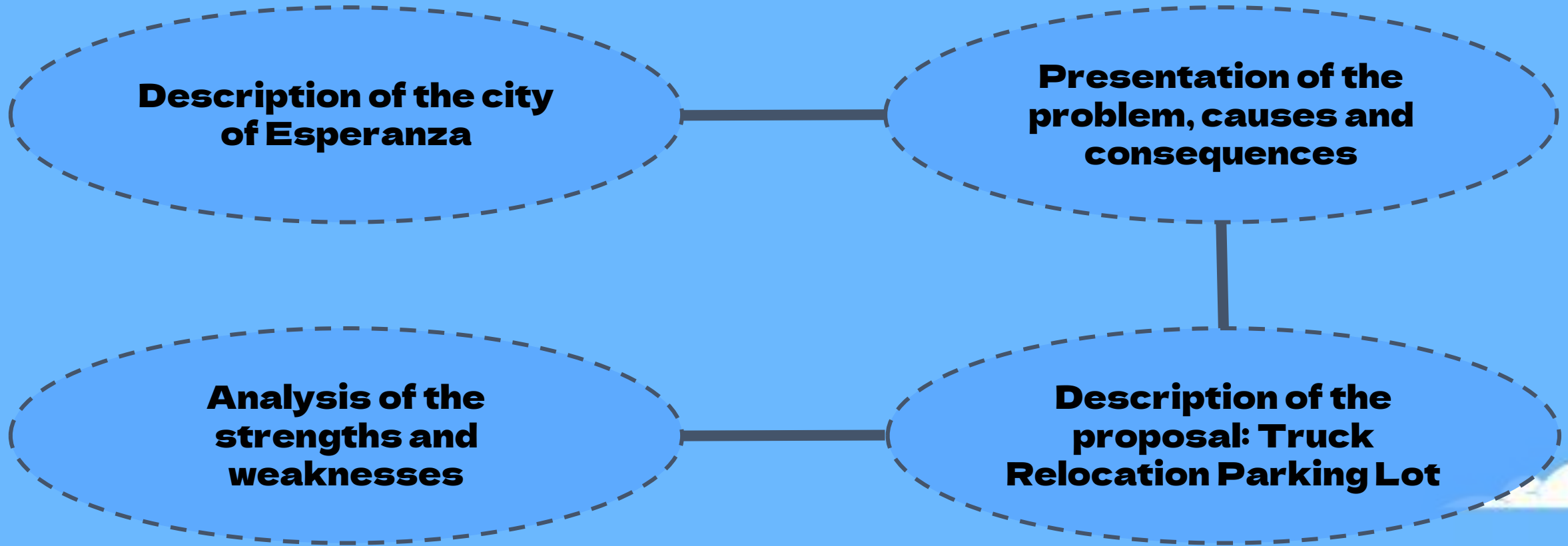


What is the purpose of this presentation?



- *Study and analyze the different areas of the city that present problems with heavy vehicles' traffic, especially in terms of trucks.*
- *Make a proposal to move the trucks to a new place.*
- *Improve and develop the urban traffic of the city.*

Map of the presentation:



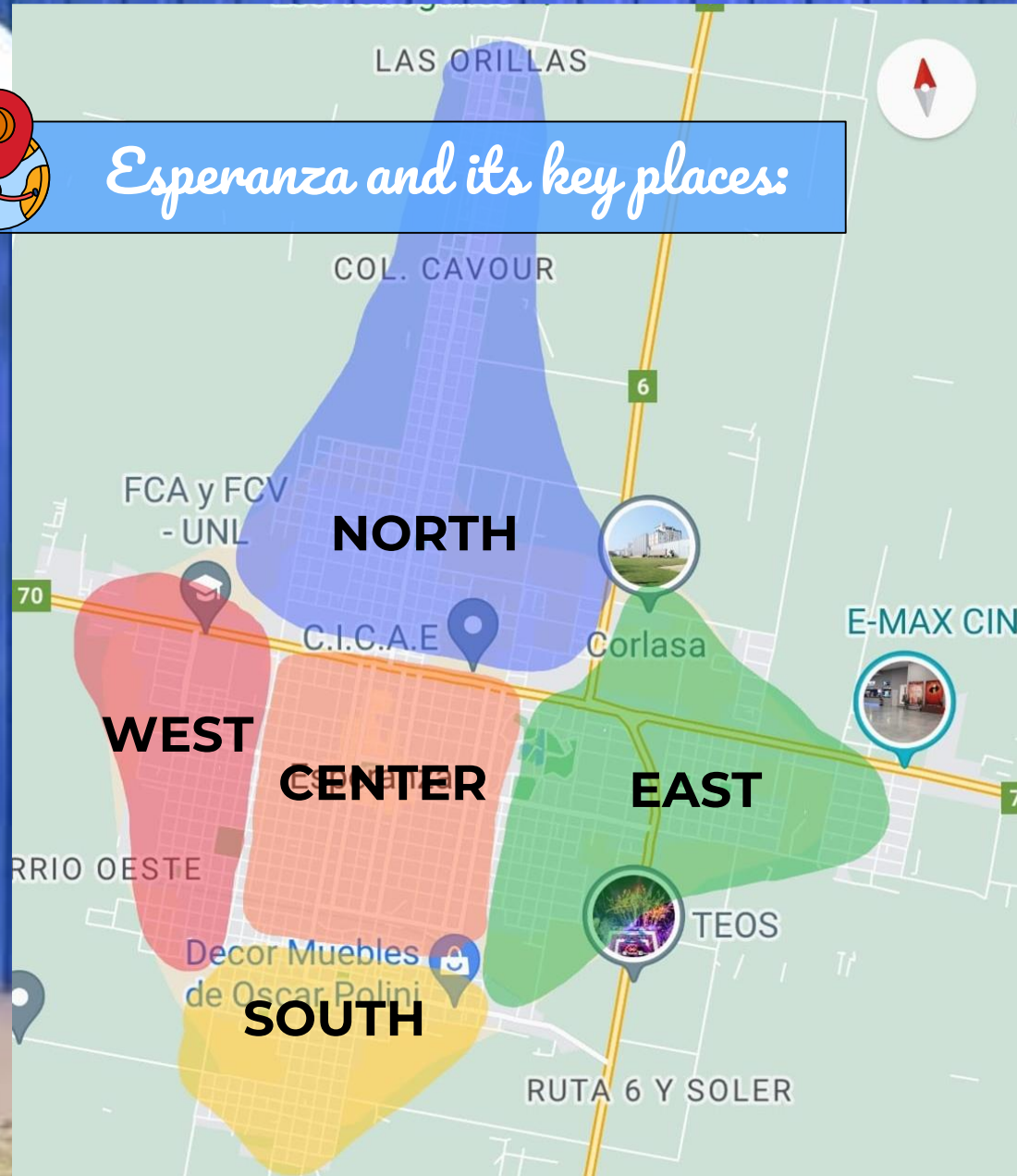
EXPECTED IMPACT OF THIS WORK



Problem Definition and Analysis:



Esperanza and its key places:



Description of the context:

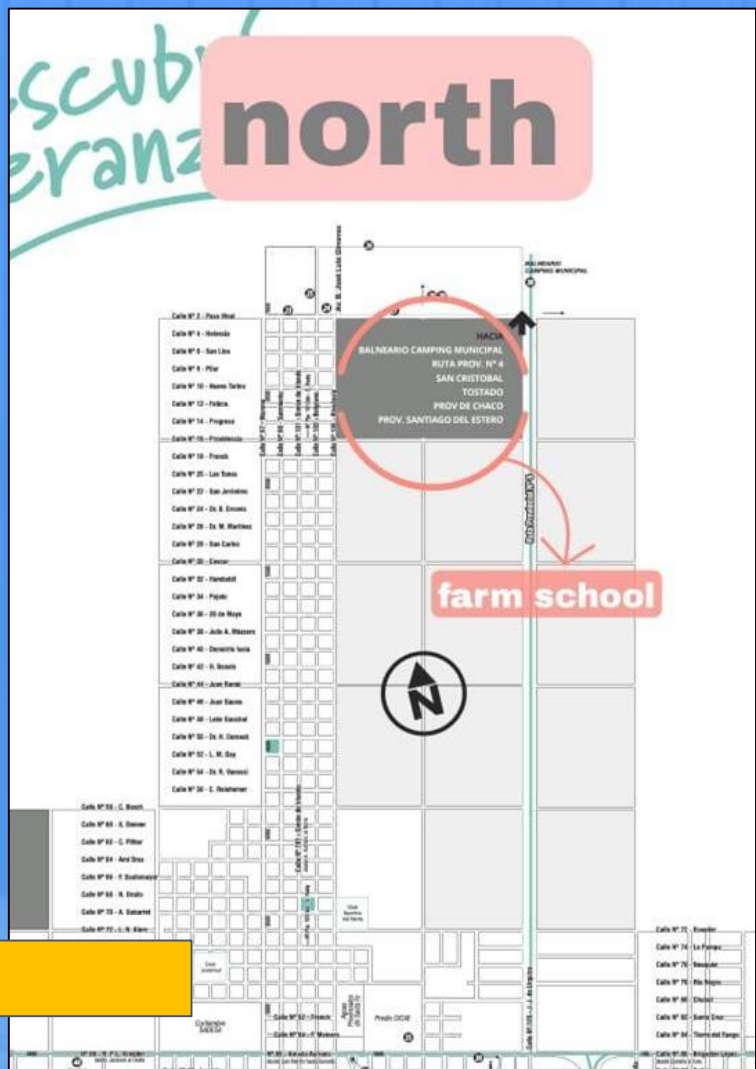
- North
- Center
- West
- East
- South



Problem Definition and Analysis: Description of the context



North



House in the north zone



Farm school



Problem Definition and Analysis: Description of the context



West

Technical school EETP 455

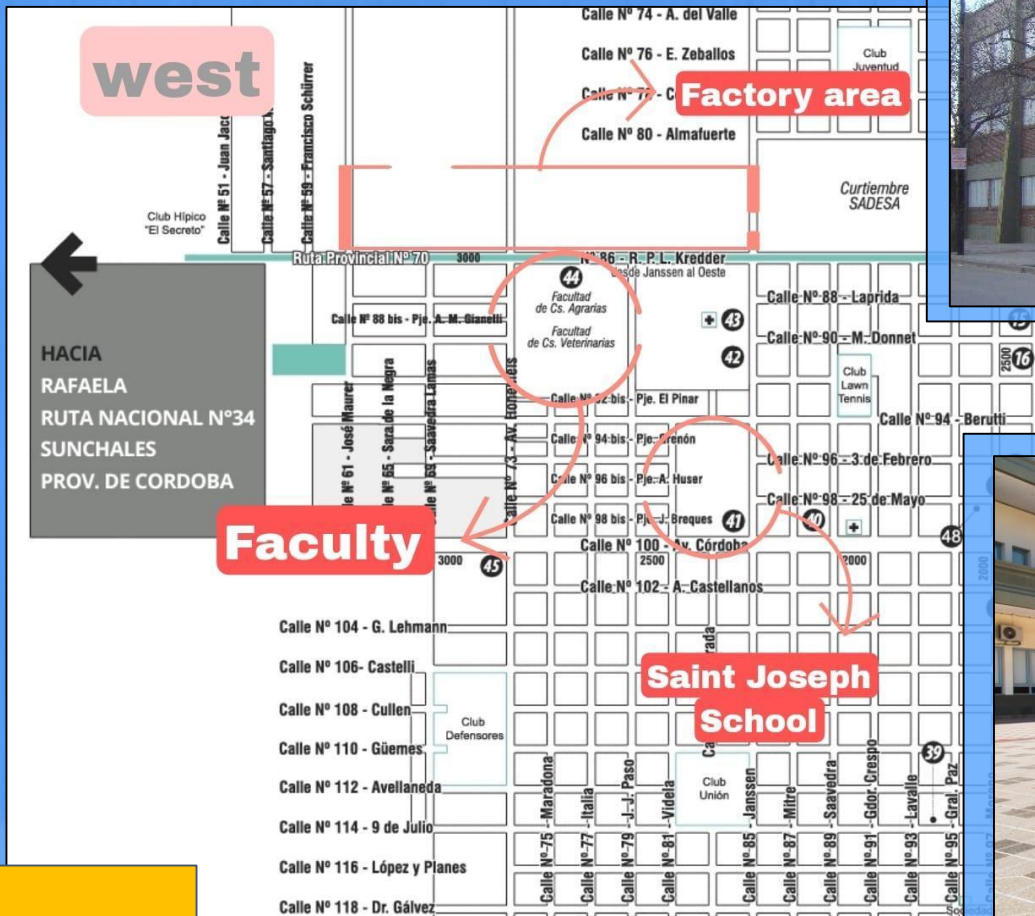
University of Agricultural Sciences and Veterinary Sciences



Saint Joseph School



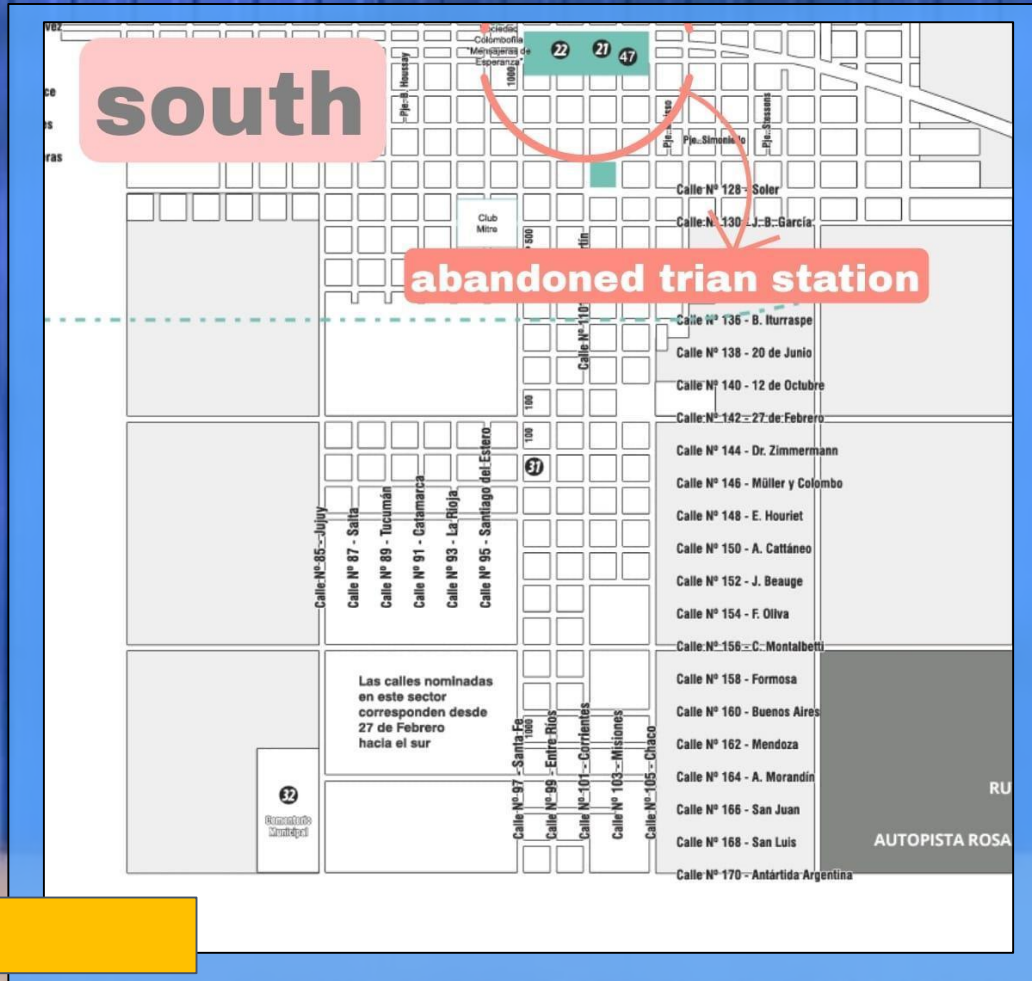
Factory named FIMACO



Problem Definition and Analysis: Description of the context



South



Abandoned train station



primary school



Problem Definition and Analysis: Description of the context



Center



Bar named "Royal"



Esperanza hospital



Main park named Plaza San Martín



Problem Definition and Analysis: Description of the context

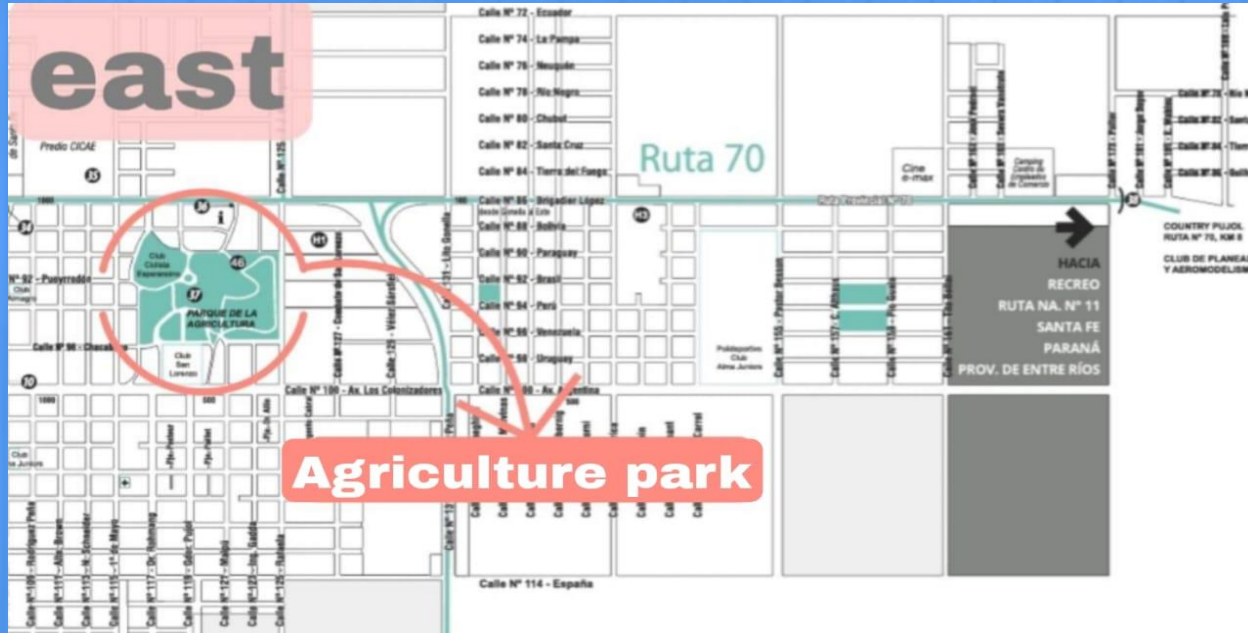


East

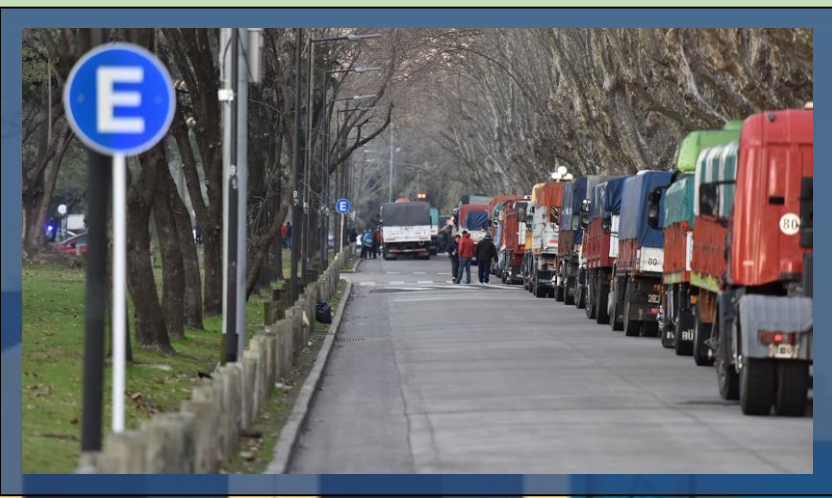
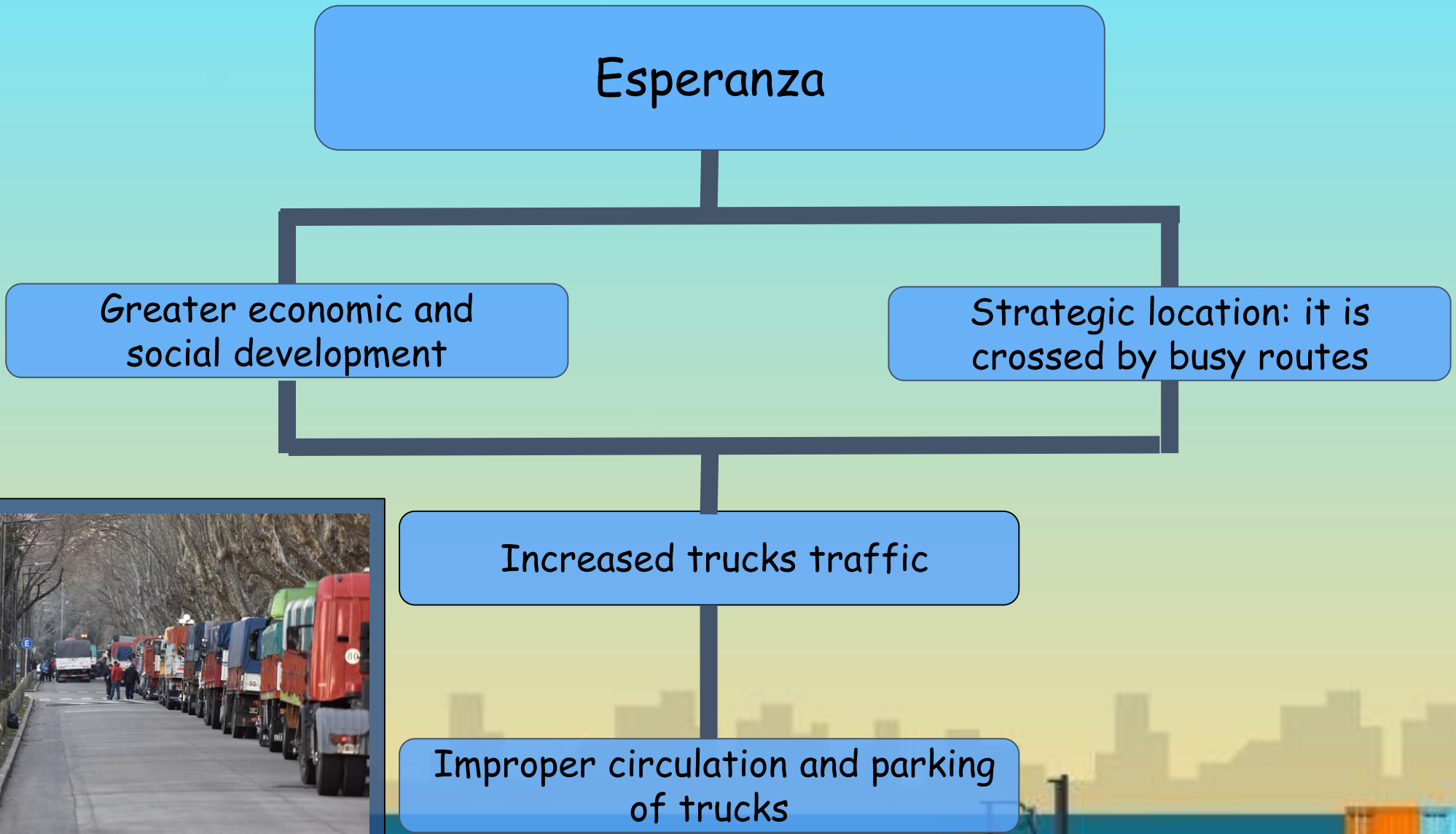
Dance Club named Teos



Agriculture park



**Problem Definition and Analysis:
Problem Statement**

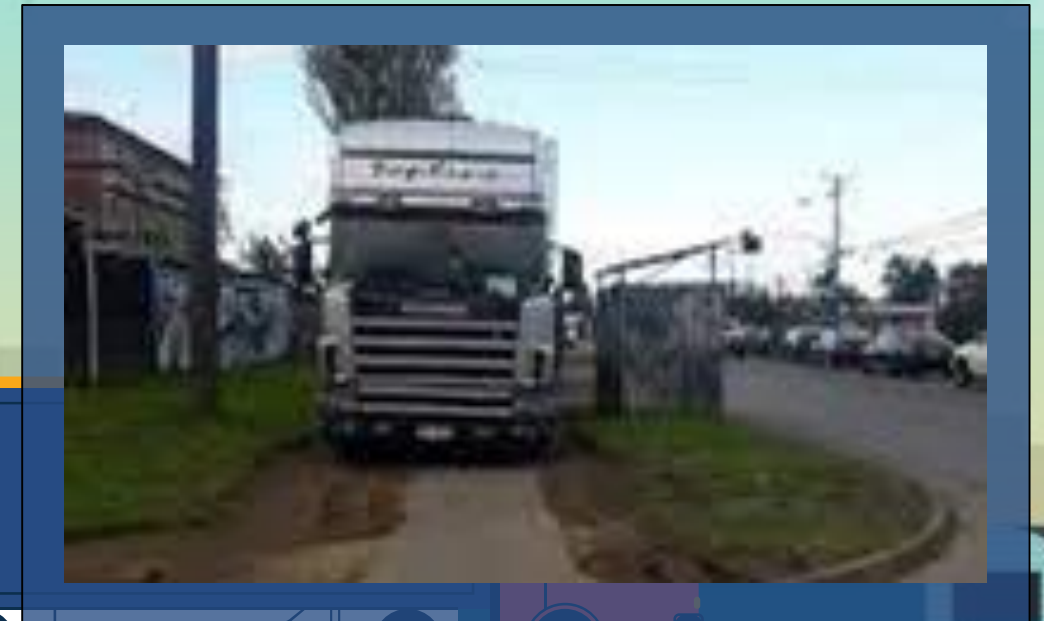


Description of Scenes that Help Picture the Problematic Situation:

The pollution generated by these trucks is evident in various contexts, bringing with it consequences for the city.



Trucks parked in the streets



Truck parked inappropriately



Description of Scenes that Help Picture the Problematic Situation:

The pollution generated by these trucks is evident in various contexts, bringing with it consequences for the city.



Truck parked on the bike path



Inspector writing down the infraction of the truck



Identification and analysis of causes or factors that give rise to the problem

Causes

- *Lack of strategic planning*
- *Increase in uncontrolled development*
- *Industrial development growth*
- *Lack of adequate infrastructure*



Transportation of wind towers from Esperanza city to Zárate, Buenos Aires

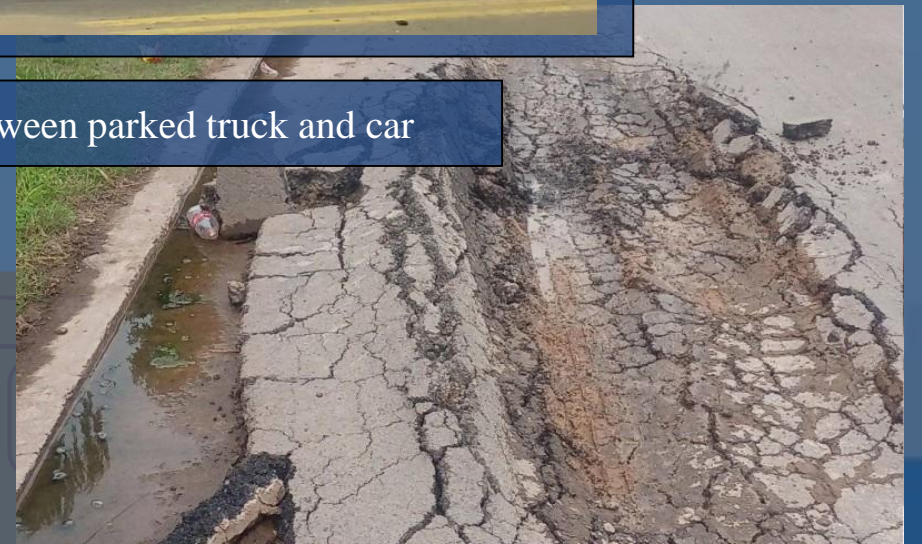


Consequences

- *Increased probability of crashes*
- *Deterioration of road infrastructure*
- *Reduced visibility for pedestrians*
- *Air pollution in the city*
- *Decreased overall city operation capacity*



Collision between parked truck and car



Streets broken by trucks



Solution proposed

Move trucks to areas outside the city center

Parking lot



Parking lot example

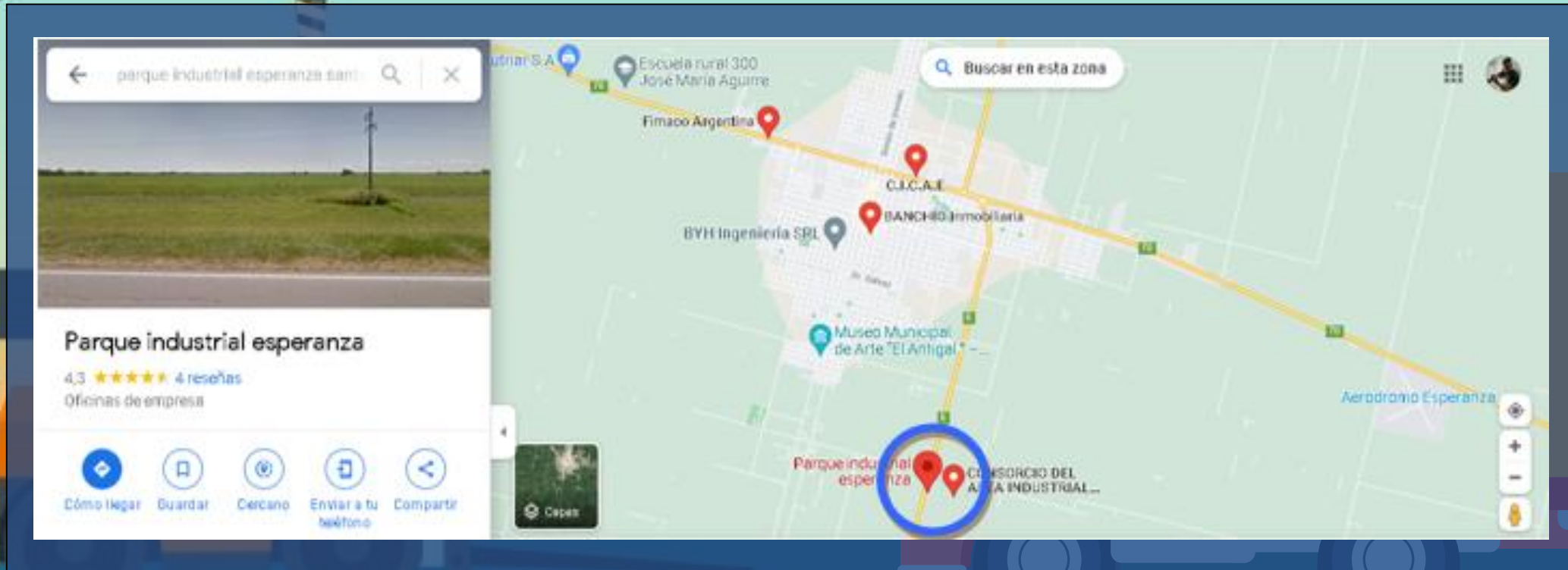


Parking lot entrance



Location of the parking lot

Industrial Park



Strategic organization of the different areas in the parking lot

1. *Entry and exit*
2. *Loading and unloading*
3. *Materials storage*
4. *Parking*
5. *Unit maintenance*



1

Entry and exit sector

Activities

- *Documentation control*
- *Entry and exit of the vehicles and people*

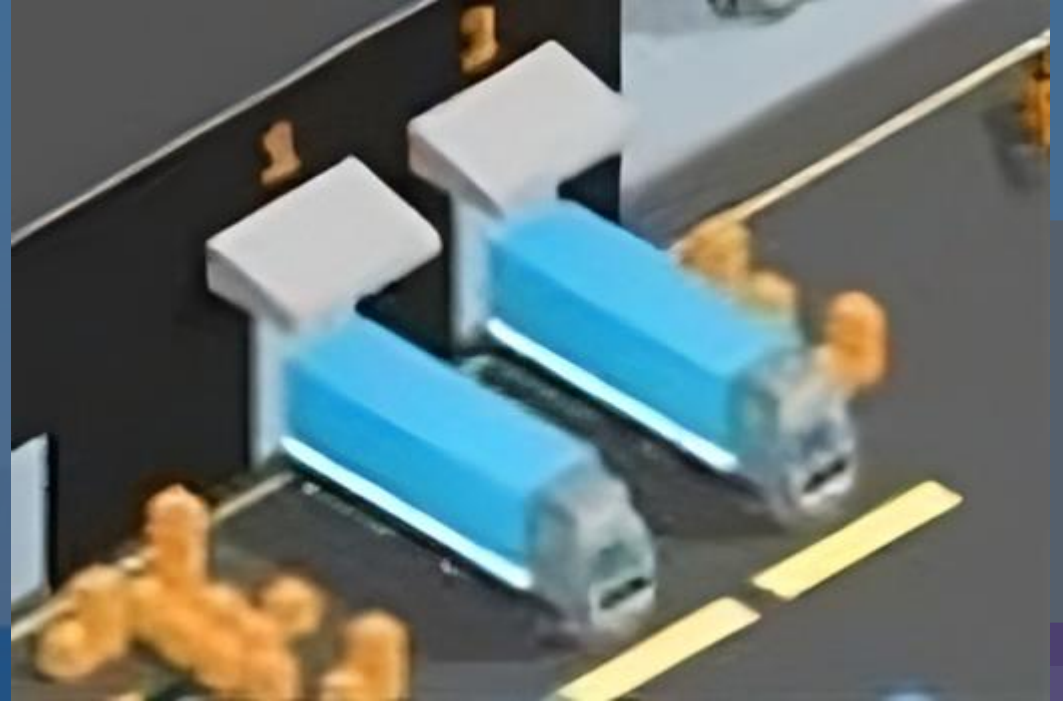


2

Loading and unloading sector

Activities

- loading and unloading of materials
- maintenance of the work area



3

Materials storage sector

Activities

- *Management and storage of materials*
- *Product delivery*



4

Parking sector

Activities

- *Parking space assignment*
- *Truckers' rest area*
- *Truck relocation*



5

Unit maintenance sector

Activities

- *Weighing of trucks for compliance with loading regulations*
- *Maintenance and repair of transport units*



Strengths

- *Environmental impact*
- *Job creation*
- *Road safety*
- *Collaboration with local companies*
- *Local economic benefit*
- *Improvement in road organization*
- *Security*

Weaknesses

- *Implementation costs*
- *Temporary inconvenience*
- *Possible resistance from carriers*
- *Logistics challenges*
- *Community rejection*
- *Complexity of the project*



Conclusion:

The lack of designated truck areas leads to negative consequences. To address this problem, a strategic solution was presented that consists in of the creation of a designated area for parking, loading and unloading trucks. This, in addition to reducing the negative effects mentioned, increases collaboration with local companies and creates jobs.



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