

Seeking Solutions to Traffic Congestion in Surco, Lima

SBE SENIOR CAPSTONE 2024

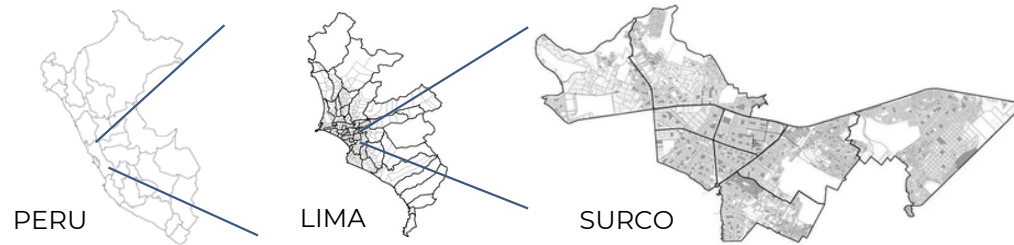
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1. INTRODUCTION

Surco is facing severe traffic congestion due to its rapid population growth, There is a heavy reliance on private cars, and the public transportation system has not kept pace with the city's expansion.

AREA OF STUDY

This study analyzes traffic congestion in Surco, Lima, focusing on its main avenues such as Primavera, Velasco Astete, and Caminos del Inca.



2. RESEARCH QUESTION

“How can public perception and current knowledge about traffic congestion nodes inform stakeholders about effective solutions and the implementation of sustainable urbanism practices, in order to enhance resilience, guarantee sustainability, and promote adaptation to future urban mobility challenges?”

3. METHODOLOGY

Perception Analysis: A survey and interviews with residents or those who commute through the area.

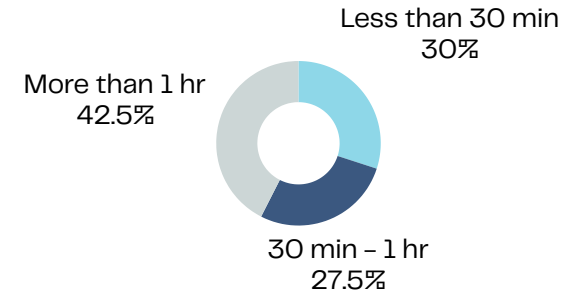
Case Study: Analyzing four intersections along the main avenues in Surco.

Literature Review: Summaries of studies on traffic congestion in Surco and Lima, with a scientific perspective on the issue.

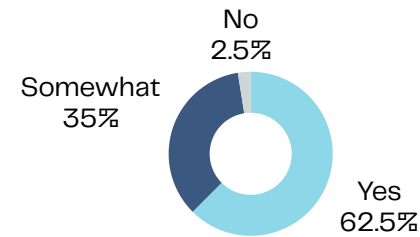
4. DATA & RESULTS

Method 1: perception analysis

How long does your daily commute take?



Do you feel your current commute impacts your daily productivity or well-being?



What type of transport do you use?



Surveys: 40

Interviews: 5

Method 2: Case Study



Primavera Avenue



Caminos del Inca Avenue



Velasco Astete Avenue

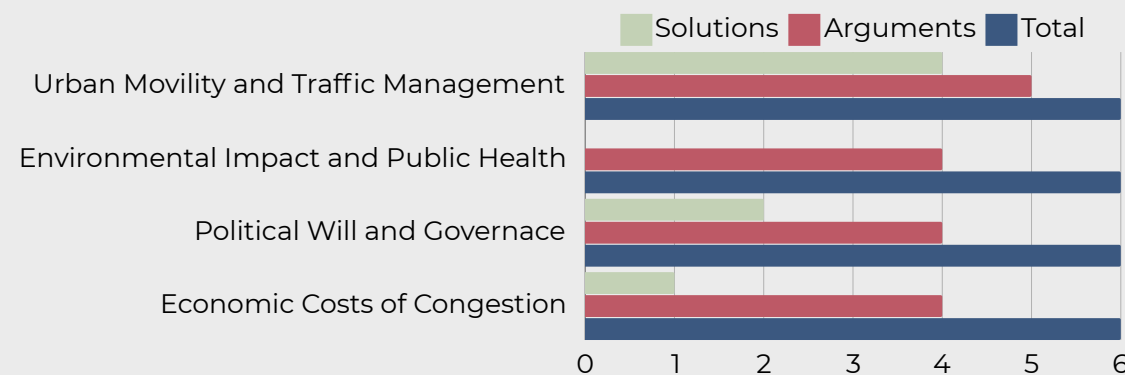


La Floresta Avenue



4 of the main intersections in Surco were chosen, where there is a large road flow throughout the day

Method 3: Literature Review



Many papers and articles show that people are aware of this, but being aware of the problem is not enough. Analyzing it from different perspectives demonstrates that this issue impacts the lives of many Peruvians in various ways.

6 of the chosen readings were selected to be analyzed since they were the most related to the topic

5. DISCUSSION & CONCLUSIONS

- Excessive private car use
- Lack of public transportation
- Poor bike lane design
- Dependence on personal vehicles
- Public transportation use is due to economic constraints and not for sustainability matters.
- Unsafe roads
- Traffic congestion all day long

RECOMENDACIONES

Traffic Signal
Optimizing timings in the morning and night.

Public Transport
New bus lanes ensuring safety.

Bike Lanes
Investment on proper, safe bike lanes and increase pedestrian zones.

Private car use
Car-off days to move more efficiently.

Redesigning roads
Create roundabout at intersections for greater traffic flow.

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