RESEARCH OF AN ALGORITHM ABLE TO PREVENT THE STREET HARASSMENT IN MEDELLIN.

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Presentation of the team

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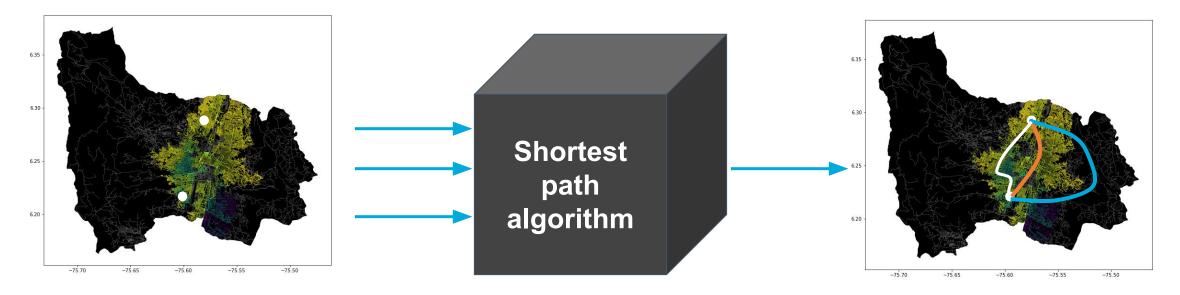Designer and programmer

Andrea Serna
Literature review

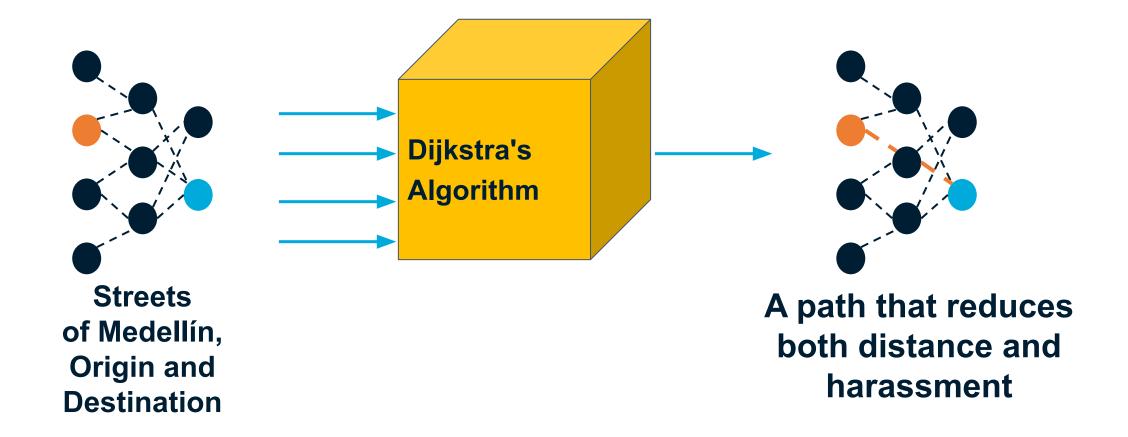**Mauricio Toro**
Data preparation

https://github.com/alejoriosm04/ST0245

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**Streets
of Medellín,
Origin and
Destination**

**Shortest
path
algorithm**

**Three paths that reduce
both the risk of harassment
and distance**

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Streets of Medellín, Origin and Destination

Dijkstra's Algorithm

A path that reduces both distance and harassment
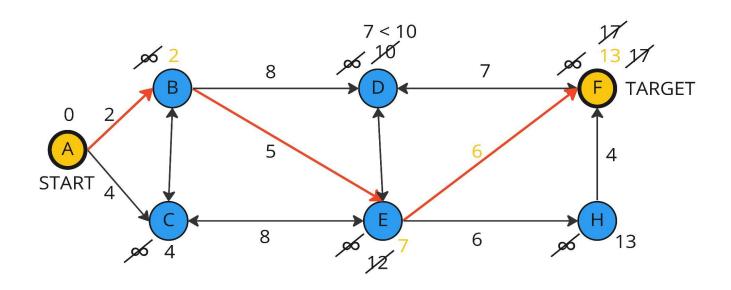
Dijkstra Algorithm

The algorithm receives the origin and destination, it runs through all the weight graph (through the adjacent streets in the map) trying to not pass through a visited vertex and changing it values from infinity to the distance value, and it finishes when all the vertices are visited, then the algorithm returns the shortest and safest path from the starting point to the destination.