

#### **Presentation of the team**





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Author



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**Andrea Serna**Literature review



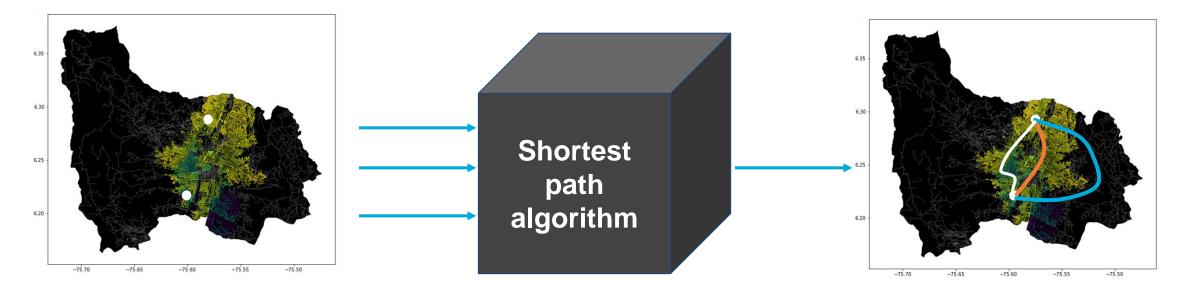
**Mauricio Toro**Data preparation





#### **Problem Statement**





Streets of Medellín, Origin and Destination

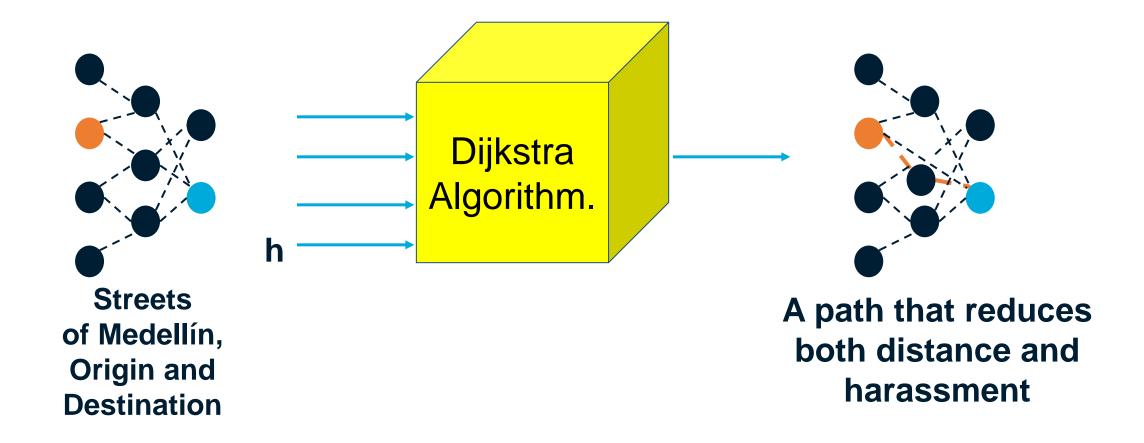
Three paths that reduce both the risk of harassment and distance





# **Solution Algorithm**



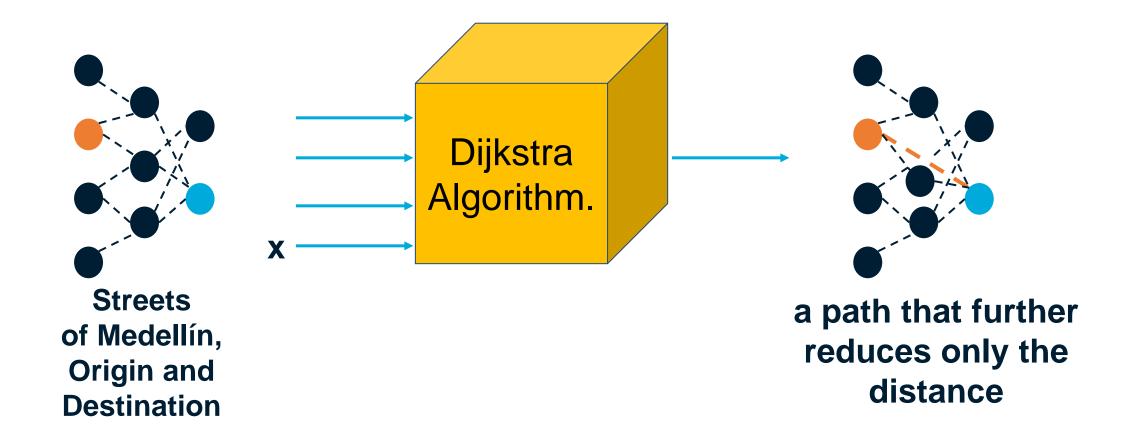






## **Solution Algorithm**



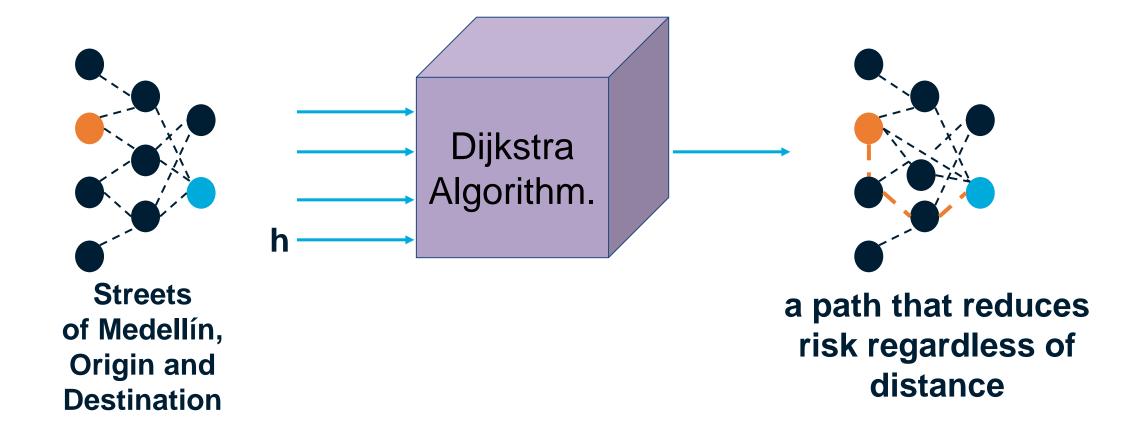






#### **Solution Algorithm**



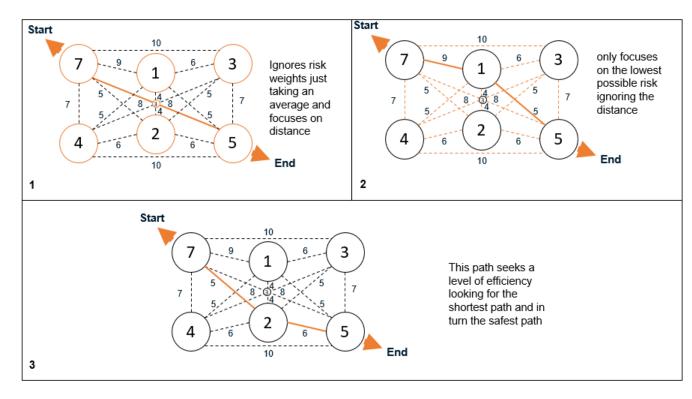






## **Explanation of the algorithm**





Dijkstra algorithm by three paths, One that takes both distance and risk<sup>1</sup>, one that further reduces distance<sup>2</sup>, one that gives the safest path<sup>3</sup>.



**Figure 1:** https://www.proclamadelcauca.com/dejame-caminar-por-la-calle-tranquila/



