# Smart Crosswalks



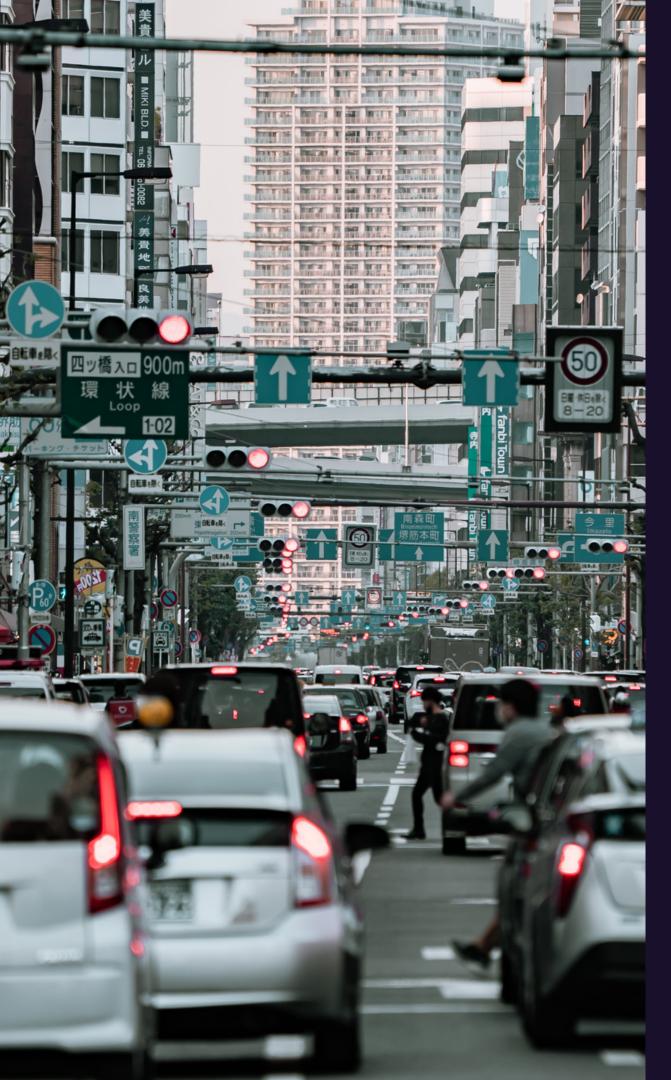
# The problem



Pedestrian safety



Wasted time



## Problem relevance

3 939 was the number of people that were hit by cars in 2021 just in Portugal

Source: PorData

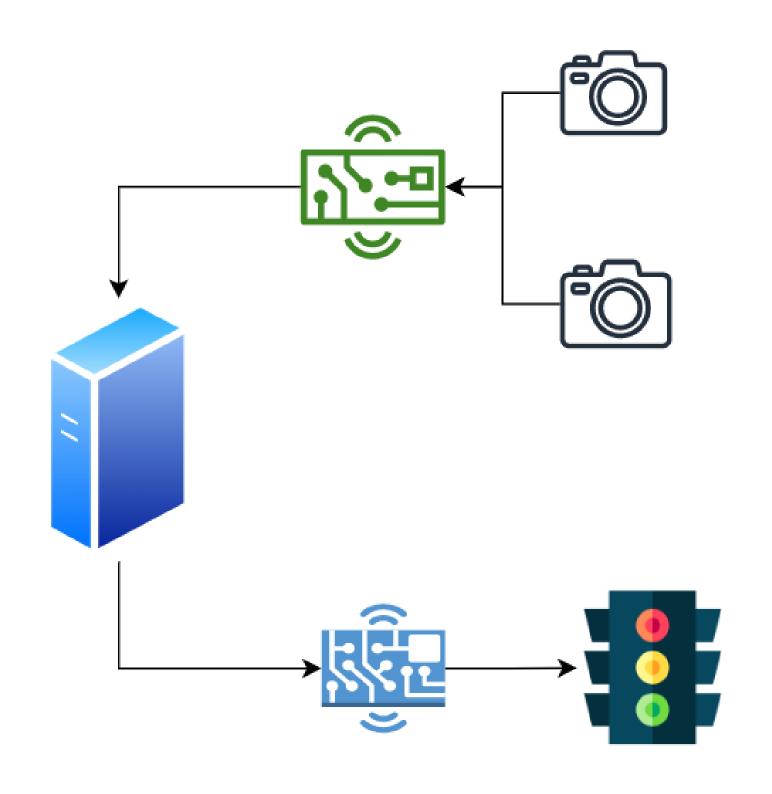
# Our solution



**Computer Vision** 

**React to traffic events** 

Improve flow of traffic and pedestrians



#### Key:



Central Server



Raspberry Pi



Arduino



Camera



Stoplight

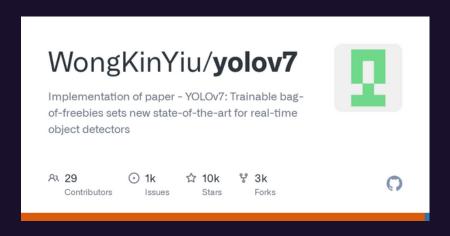
# Setup Process





### Connect Raspberry Pi, Arduino and PC to a LAN

Connect camera to Raspberry Pi
Setup video stream to HTTP Server
Run pedestrian and car inference



# Pedestrians

# Cars