

# Smart Traffic Control System



## **Idea/Approach Details**

**Ministry/ Organization name:**

**Problem Statement :** Smart intelligent traffic accident monitoring systems (MK104)

**Team Name :** men of genius

**Team Leader Name :** Ujjwal kumar

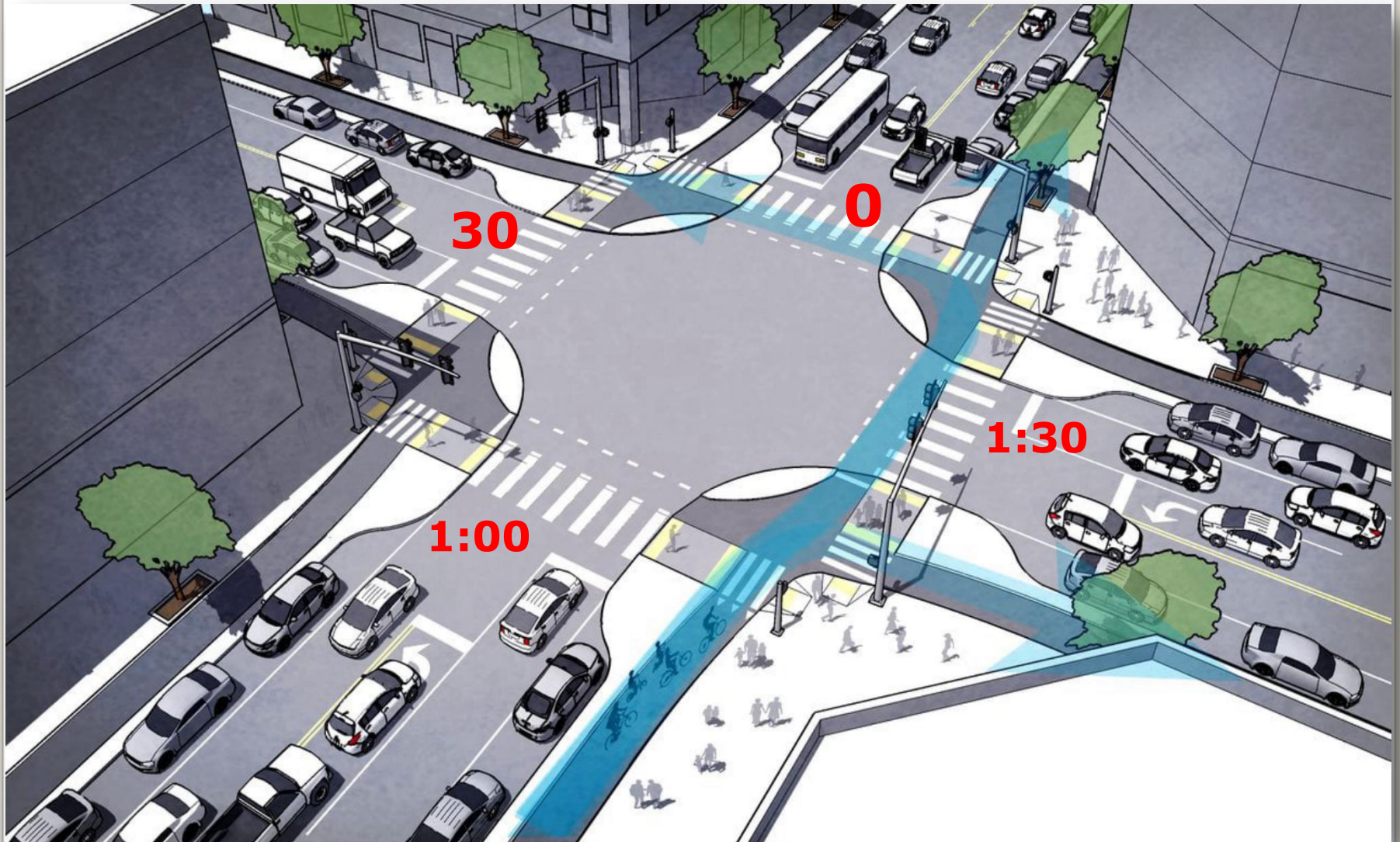
**College Code :**

# Team

- Team Leader:-Ujjwal kumar
- Team Member:-
- Gourav
- Rahul
- Monika

- Disadvantage of traffic jam
- Waste of Time and Fuel
- Air pollution

Describe your idea





solution

1:30  
min

15 car

Emergency

80

Set

Signal will be open for 5 sec

80

Set

0 sec

10 car

Emergency

1:00 min

50 car

Emergency

150

Set

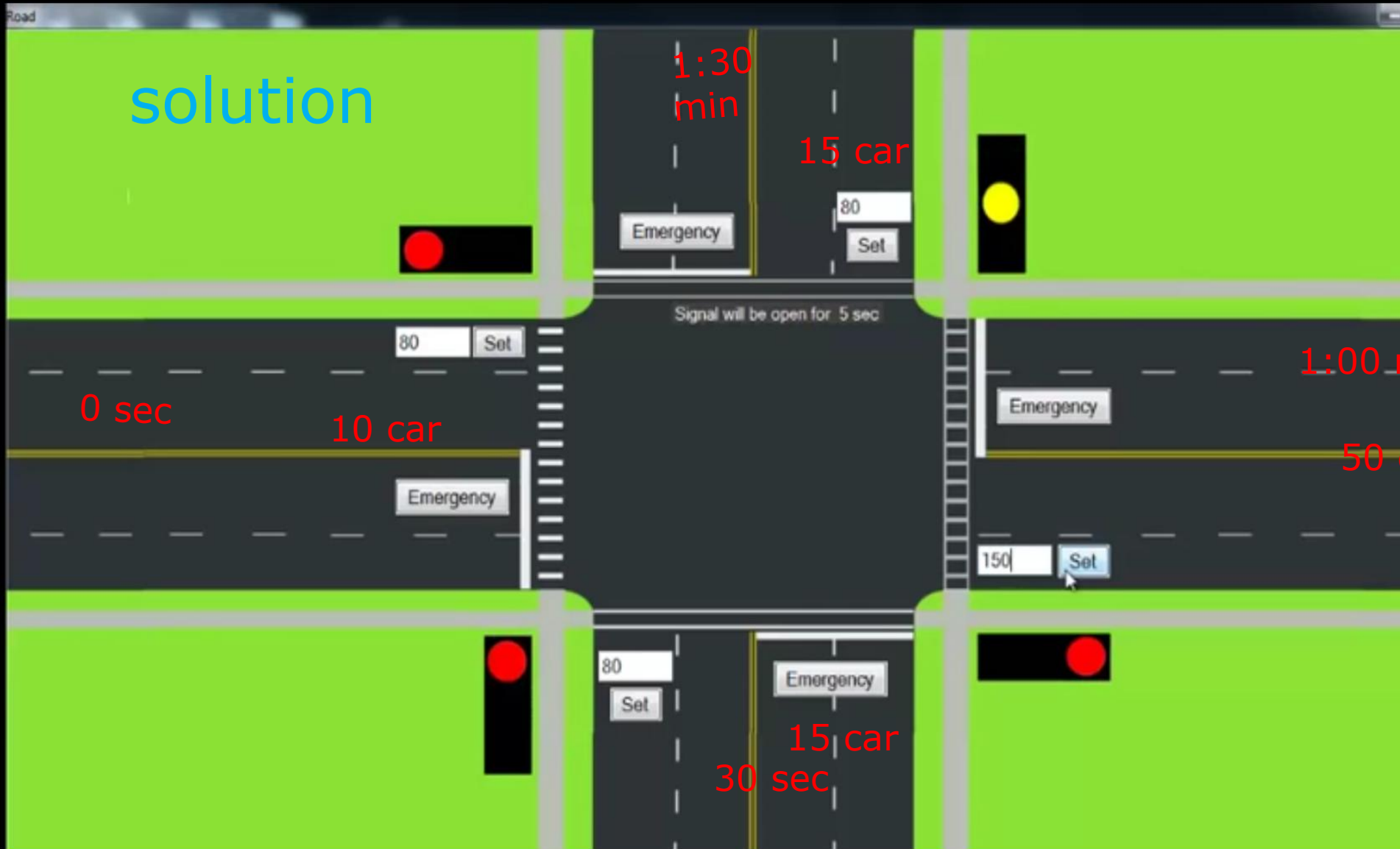
80

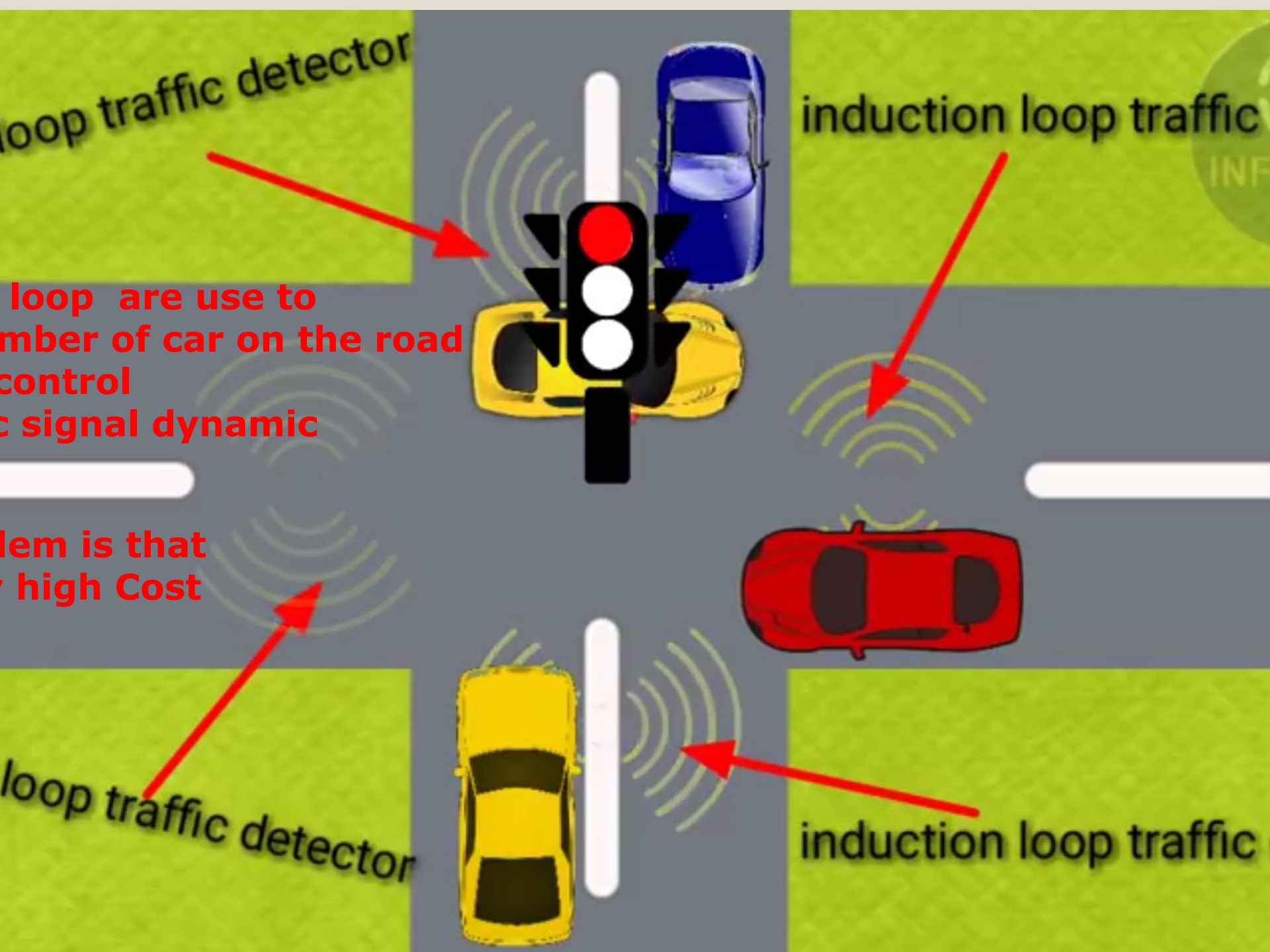
Set

Emergency

15 car

30 sec





loop traffic detector

induction loop traffic

loop are use to  
number of car on the road  
control  
signal dynamic

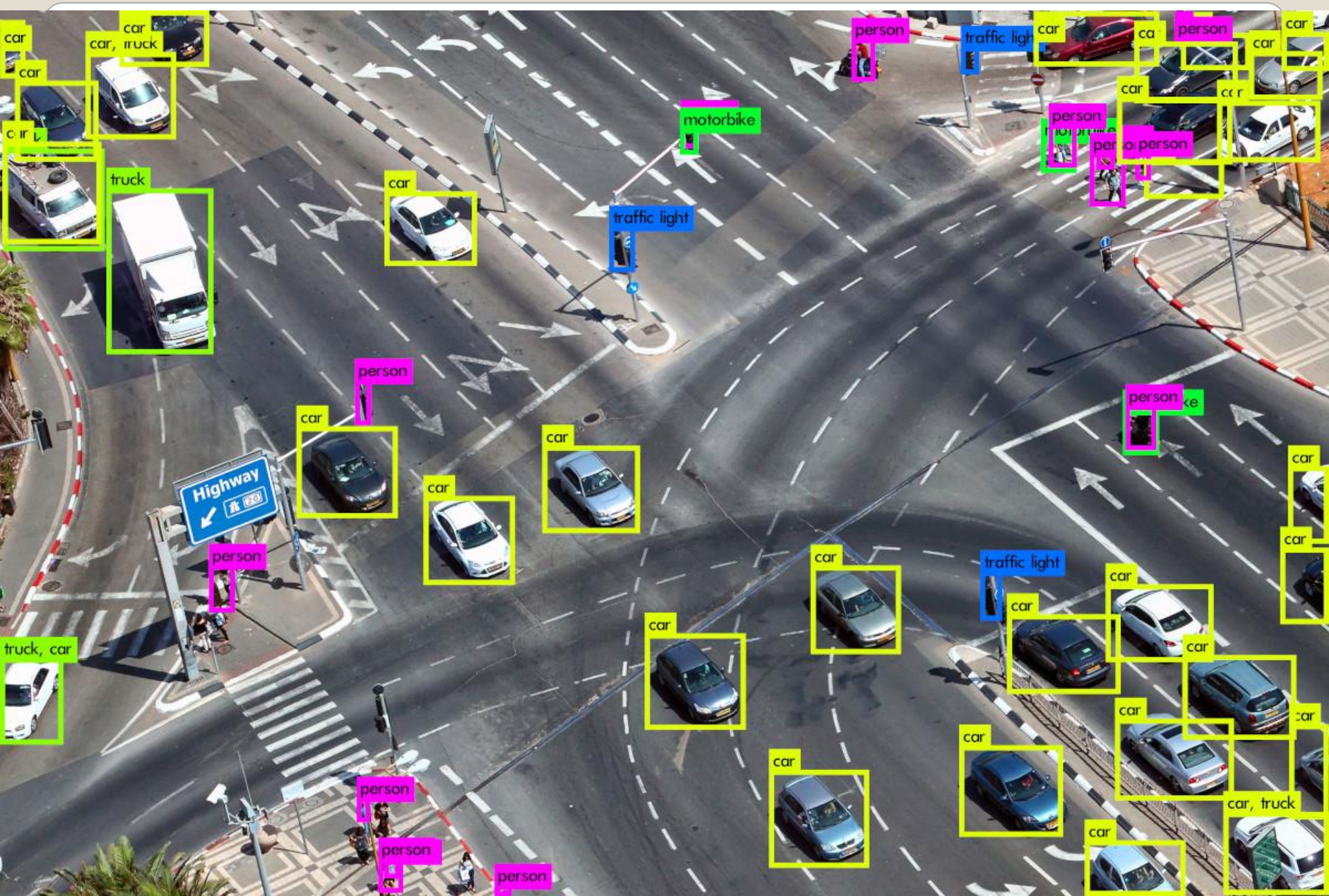
lem is that  
high Cost

loop traffic detector

induction loop traffic

- Technology and software
- Machin Learning
- Python(Anaconda)
- Opencv(module)
- Android app(Android studio)

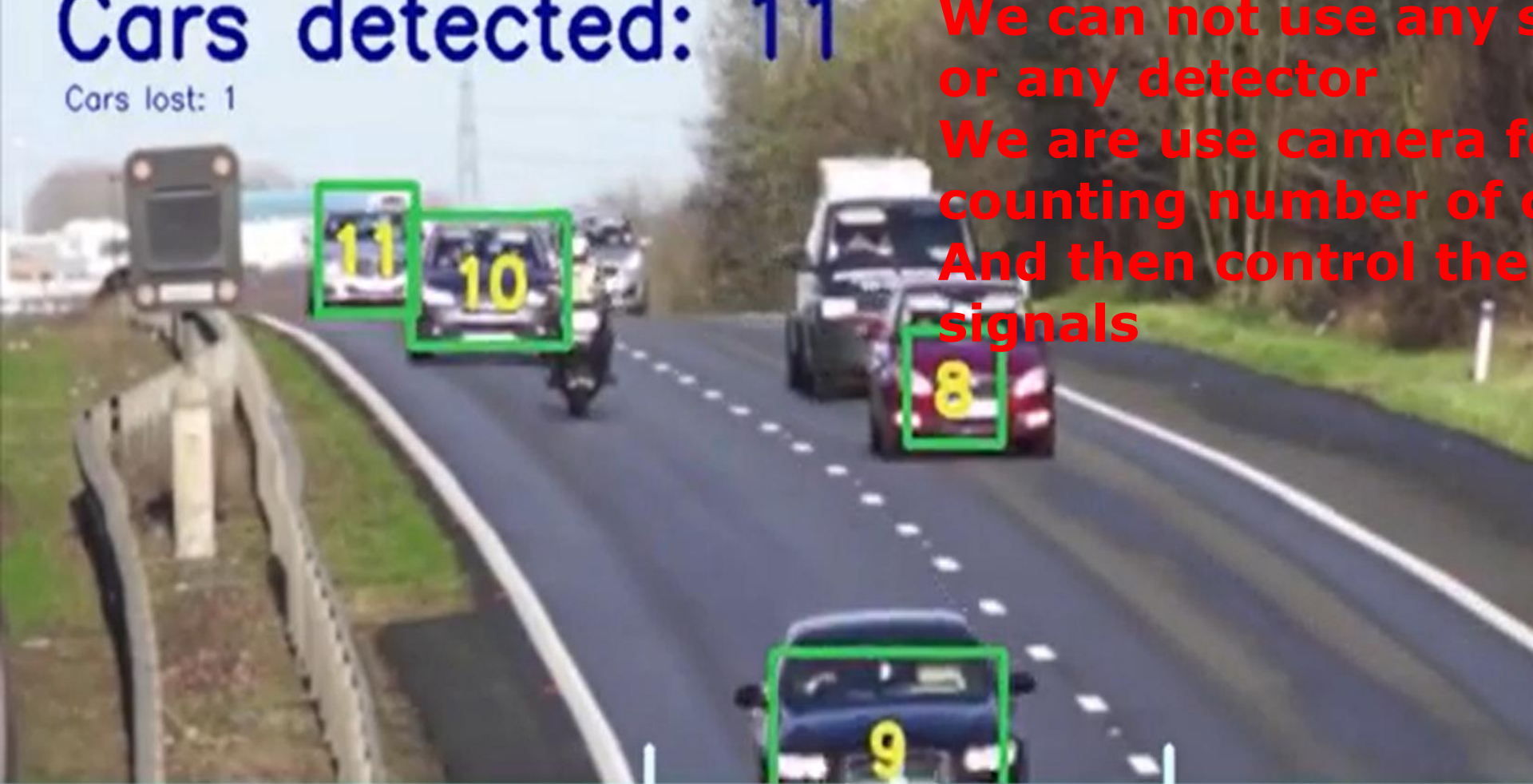






# Cars detected: 11

Cars lost: 1



We can not use any sensor  
or any detector  
We are use camera for  
counting number of cars  
And then control the traffic  
signals

## Lane counter:

Cars/second:

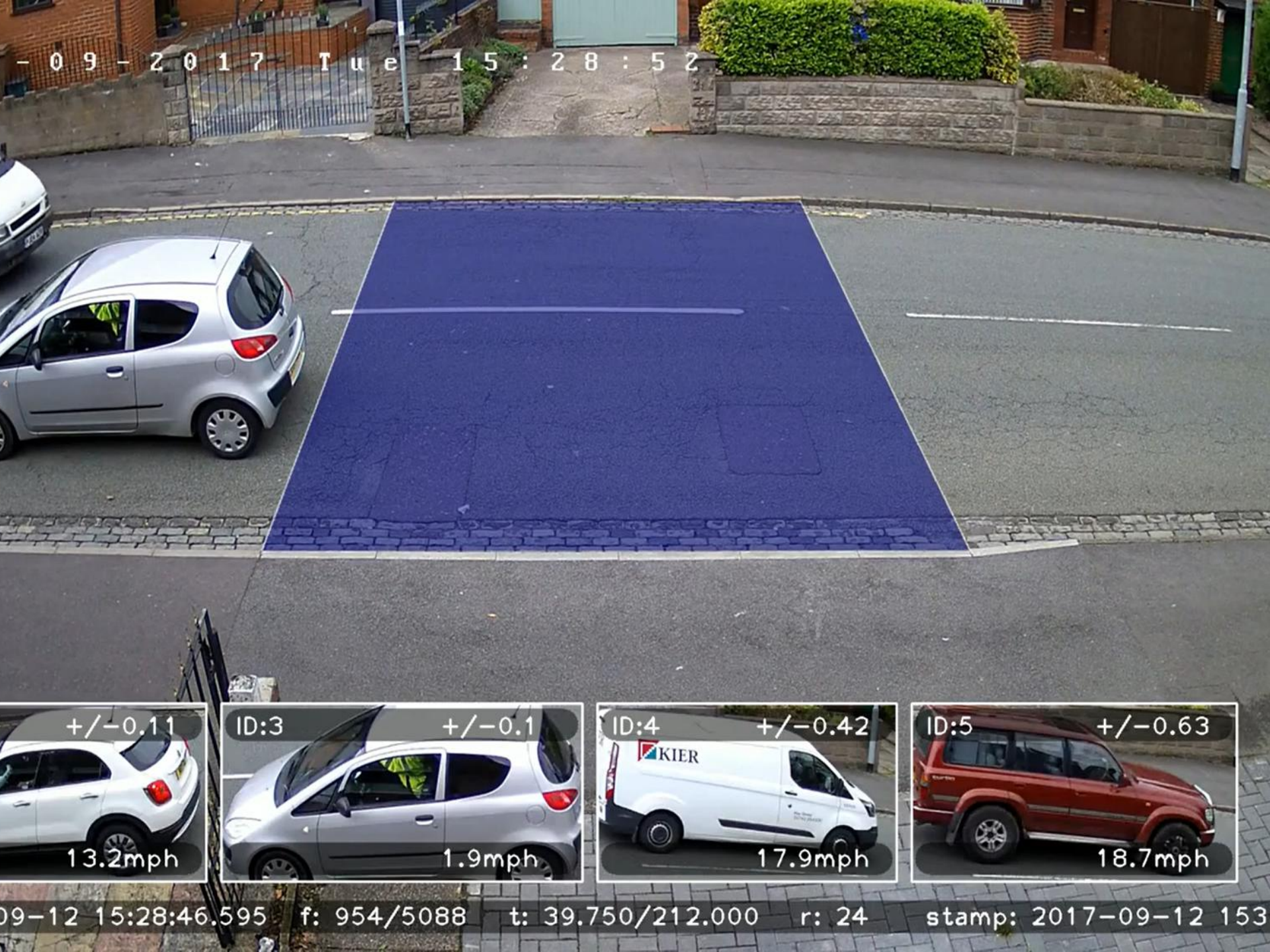
3

0.33

3

0.33





- 09 - 2017 Tue 15:28:52



09-12 15:28:46.595 f: 954/5088 t: 39.750/212.000 r: 24 stamp: 2017-09-12 153



Car Tracking



```
----- Start recognize license plate -----  
License plate: 37A-401.57  
Time: 0:00:02.180043  
[(324, 467), (508, 459), (509, 495), (326, 503)]  
Total time: 0:00:02.180043
```

Run TODO Terminal Python Console

IDE and Plugin Updates: PyCharm is ready to update. (35 minutes ago)

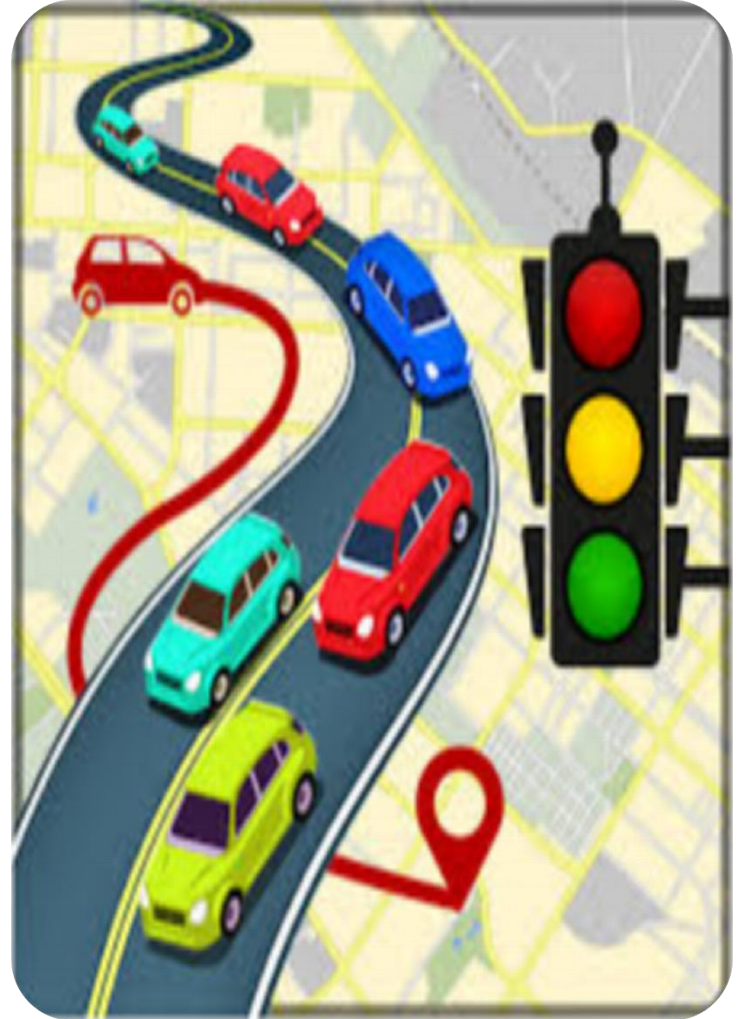
Alert!  
Slow down!

SPEED CAMERA AHEAD

REd Light  
Camera

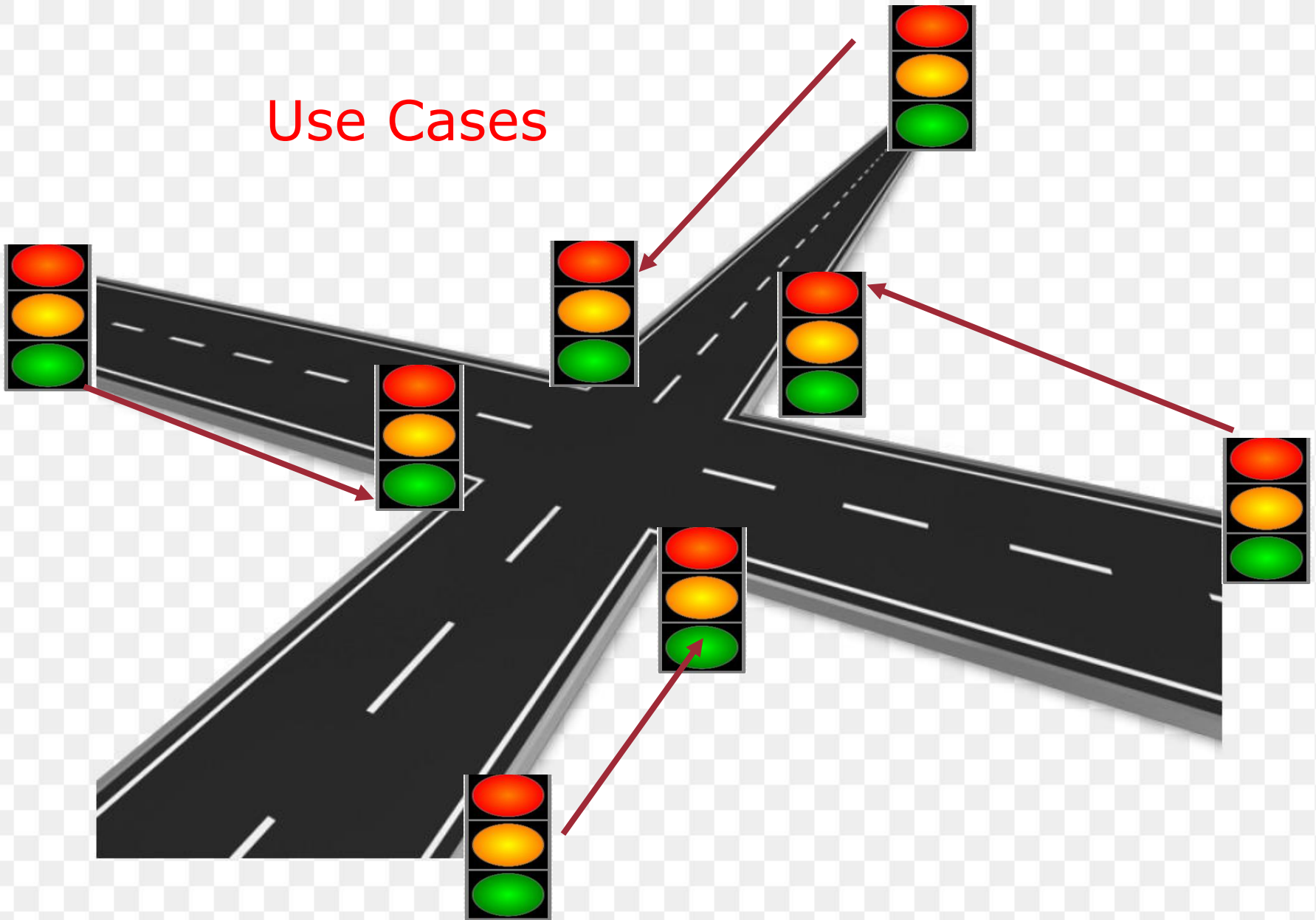
Speed Camera

Live Traffic  
Camera Feed





# Use Cases



## Advantage(purpose)

- Save lot of time
- Reduce Accident
- Dynamic time controller
- Prediction of traffic jam
- Control traffic jam
- Car Tracking
- Air pollution
- fuel

Thank  
You!