

# Introduction

## Methodology

```
graph TD; A[Video Input] --> B[YOLOv10 Object Detection]; B --> C[Track Detected Vehicles]; C --> D[Calculate Speed]; D --> E[Count Vehicles Crossing Line]; E --> F[Display Results];
```

Fig. 1. Flow chart model of the work.

## Methodology (cont.)

Fig 2. Vehicle distribution

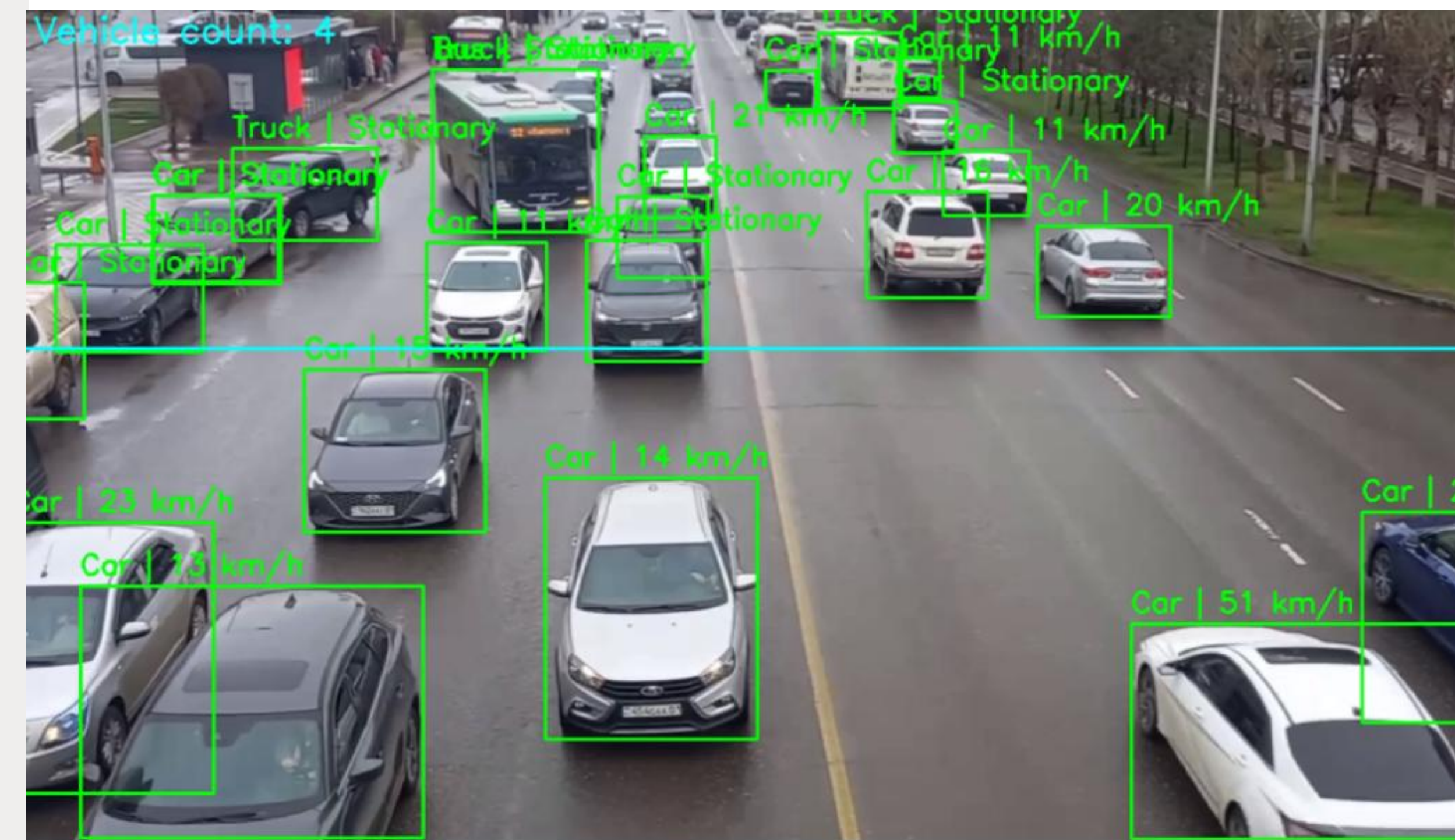
A pie chart illustrating the distribution of vehicle types. The chart is divided into four equal segments, each representing 25.0% of the total. The segments are labeled: Car (top-left), Truck (top-right), Motorcycle (bottom-left), and Bus (bottom-right). The percentage values are displayed within each segment.

Vehicle Type	Percentage
Car	25.0%
Truck	25.0%
Motorcycle	25.0%
Bus	25.0%

Fig 2. Vehicle distribution

## Results

Fig 3. Example of a take a photo



In logistics, the system allows for tracking vehicles, improving routes and delivery times. It can also be used in safety systems to prevent accidents. Overall, the project can be adapted for various needs, including police investigations and research on traffic analysis.

## Conclusion

## References

- ## Acknowledgements

## Contact details



## GitHub



## Presentation



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