



GHOST
ANALYTICS

AI-Driven

Traffic and Incident Detection Solutions

Enhancing Road Safety and Efficiency Through Advanced Technology

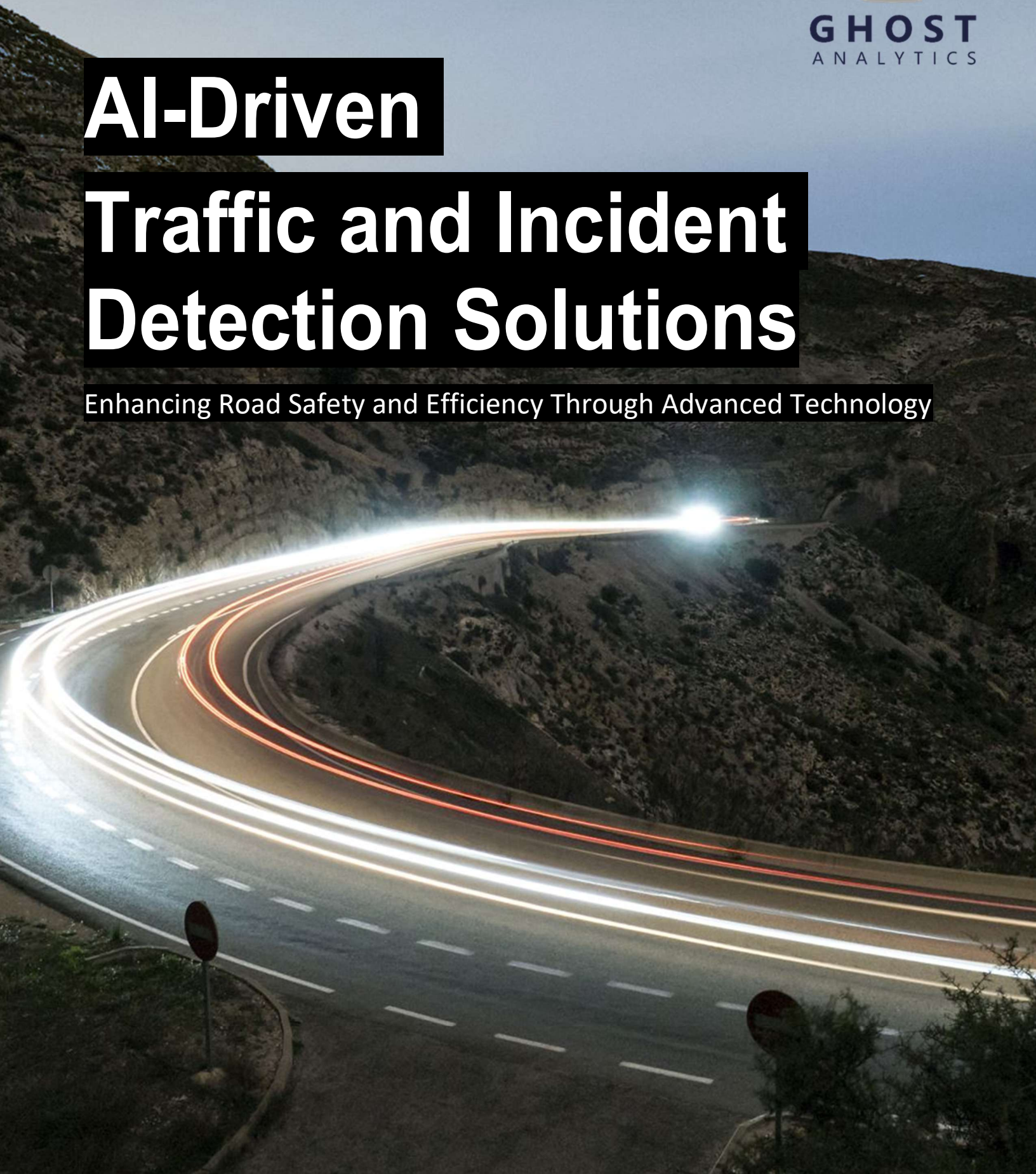


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A nighttime photograph of a city skyline, likely Sydney, featuring the Sydney Harbour Bridge and various skyscrapers illuminated with lights. In the foreground, there are highway signs on a multi-lane road. The signs include a red and white warning sign for 'NO DANGEROUS GOODS IN TUNNEL' and 'LOW TUNNEL CLEARANCE 4.4m', and blue directional signs for 'BRIDGE' and 'TUNNEL' with 'NO CASH' and 'TOLL' information, and arrows indicating directions.

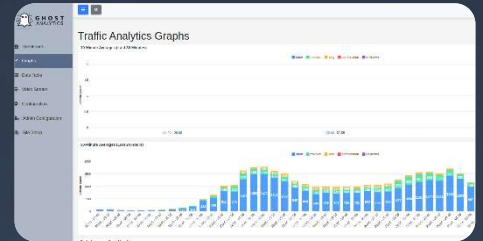
About Ghost Analytics

Ghost Analytics is an Australian AI company specialising in intelligent traffic and incident detection solutions. Our mission is to enhance road safety and traffic efficiency by leveraging existing CCTV infrastructure combined with advanced artificial intelligence.

Our Solutions

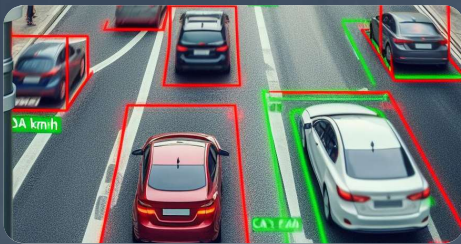
GhostCore

Centralised Management
and Analytics



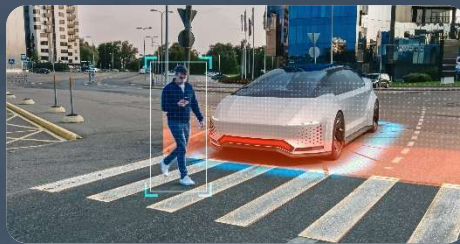
GhostTraffic

Real-time traffic data
analysis



GhostSafety

Incident Detection
and Alerts



GhostDetect

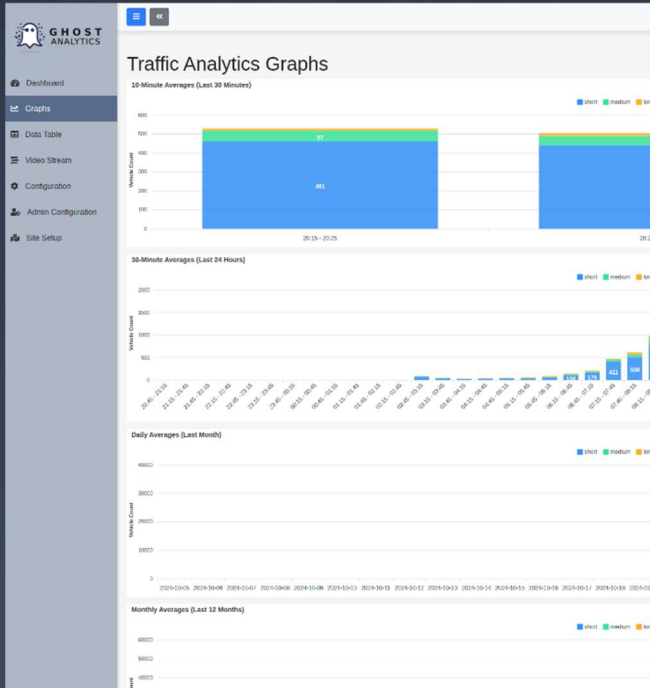
Custom Object
Detection



Ghost Analytics' software is designed with flexibility and cost-efficiency in mind, allowing customers to select only the modules they need—whether it's traffic detection, incident management, or custom object detection. By offering a modular approach, clients can avoid unnecessary expenses while still benefiting from a seamless, user-friendly interface through GhostCore. This ensures a tailored, scalable solution that simplifies operations without compromising on performance or accuracy.



GhostCore / GhostTraffic

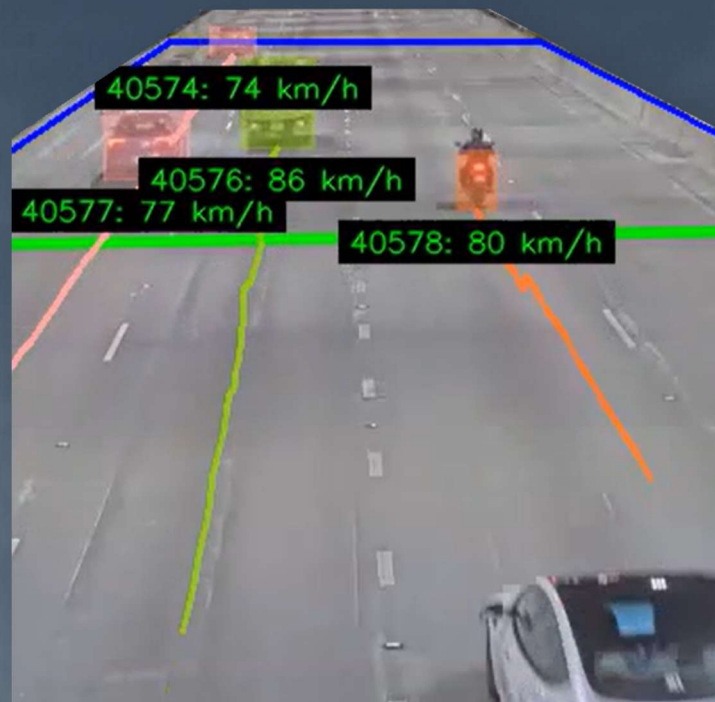


GhostCore

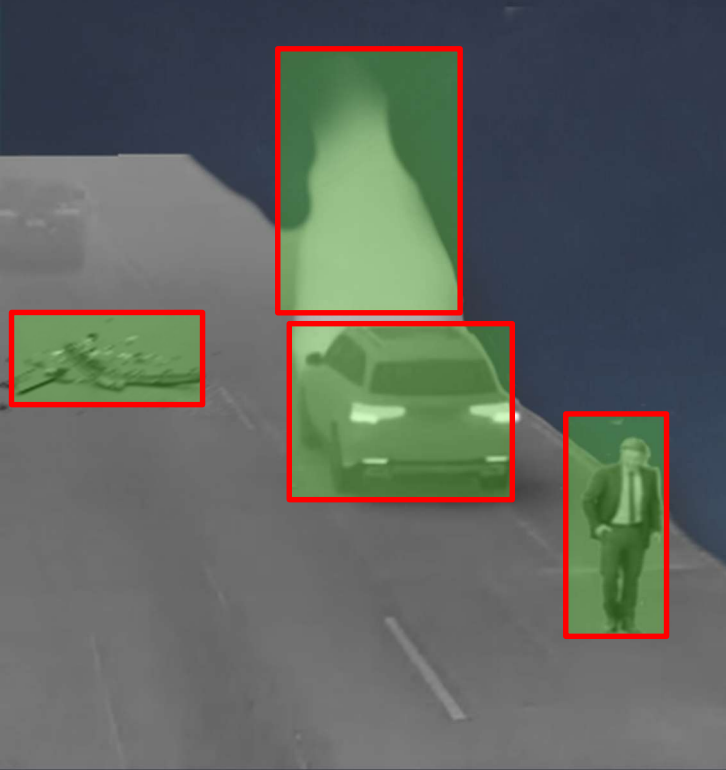
GhostCore is the central hub of Ghost Analytics' software suite, providing a seamless and intuitive user interface for managing all system functionalities. It integrates user management, reporting, alerting, and analytics, offering a unified platform for real-time insights and streamlined operations. GhostCore ensures simplicity, efficiency, and scalability for diverse customer needs.

GhostTraffic

GhostTraffic is Ghost Analytics' advanced traffic detection software, offering real-time vehicle counting, classification, and speed analysis. Designed to replace traditional loop detectors, it provides accurate, reliable traffic insights using AI-powered analytics. GhostTraffic integrates seamlessly with existing infrastructure, delivering cost-effective and scalable solutions for efficient traffic management.



GhostSafety / GhostDetect



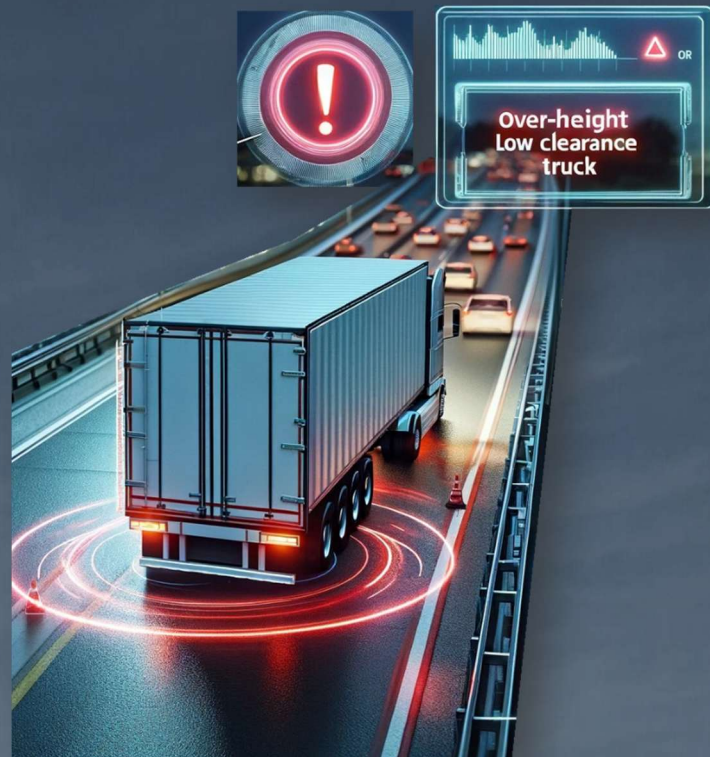
GhostSafety

GhostCore is the Safety Detection algorithm, designed to detect critical scenarios such as:

- Fire and Smoke
- Stopped Vehicle
- Pedestrian on road
- Debris on road
- Near-miss

GhostDetect

GhostDetect is Ghost Analytics' custom object detection module, designed to address unique customer requirements with precision. Leveraging advanced AI technology, it enables seamless identification and tracking of specialised objects, providing tailored solutions for diverse industries. GhostDetect ensures flexibility, accuracy, and efficiency in meeting specific detection challenges.



Key Features and Benefits

Our AI Traffic and Incident Detection system is designed to enhance the efficiency and safety of traffic management using state-of-the-art AI technology. With a focus on accuracy, simplicity, and security, Ghost Analytics' solution is engineered to meet the needs of modern infrastructure projects, including those that require offline capabilities.

A.I.

AI Detection

- » Utilises standard CCTV footage
- » Intelligent Incident Detection



Secure and Resilient

- » Multi-Factor Authentication Enabled
- » Built to IEC 27001 TS 06305



Multi-Protocol Support

- » SQL, OPC, gRPC, NTCIP
- » TSI-SP-026 Protocol, TS912 Classifications



Fully Featured UI

- » Configuration within minutes
- » Live Analytics & Alarms



Onshore Development and Support

- » Developed and Tested in Australia
- » 24/7 Local Australian Support

Performance and Reliance

Ghost Analytics' system is battle-tested and proven, delivering 99% accuracy across diverse environments, including tunnels, highways, and urban roads.



Extensively Tested

» Analytics performed over thousands of hours across varied environments including tunnels, highways, and urban intersections.



High Accuracy

» Achieved up to 99% detection accuracy, consistently outperforming traditional technologies.



Seamless Integration

» Designed to work flawlessly with existing CCTV infrastructure and traffic management systems.



Scalable Solution

» Proven reliability in diverse weather and lighting conditions, maintaining consistent accuracy.

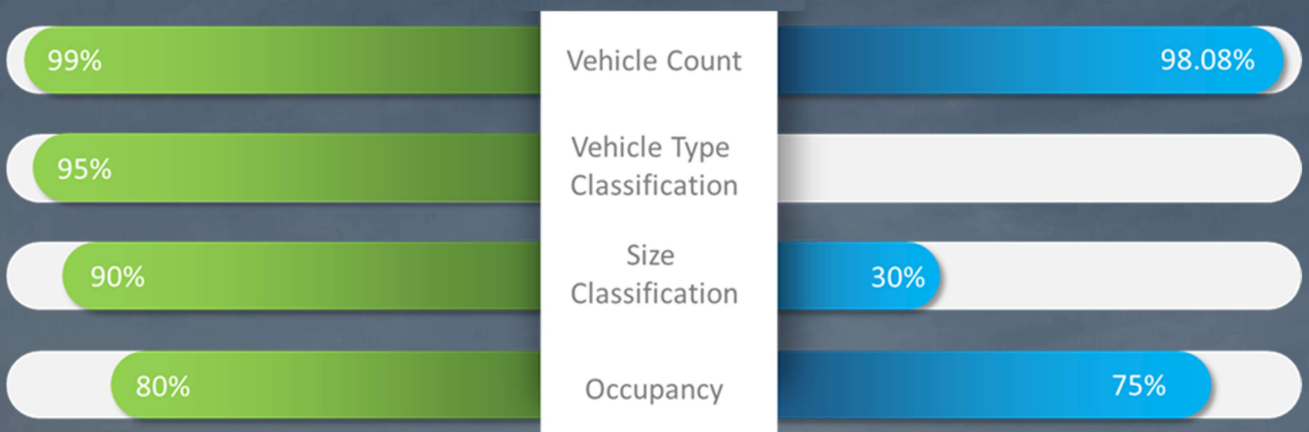


AI Vehicle Detection

Using AI and Computer Vision

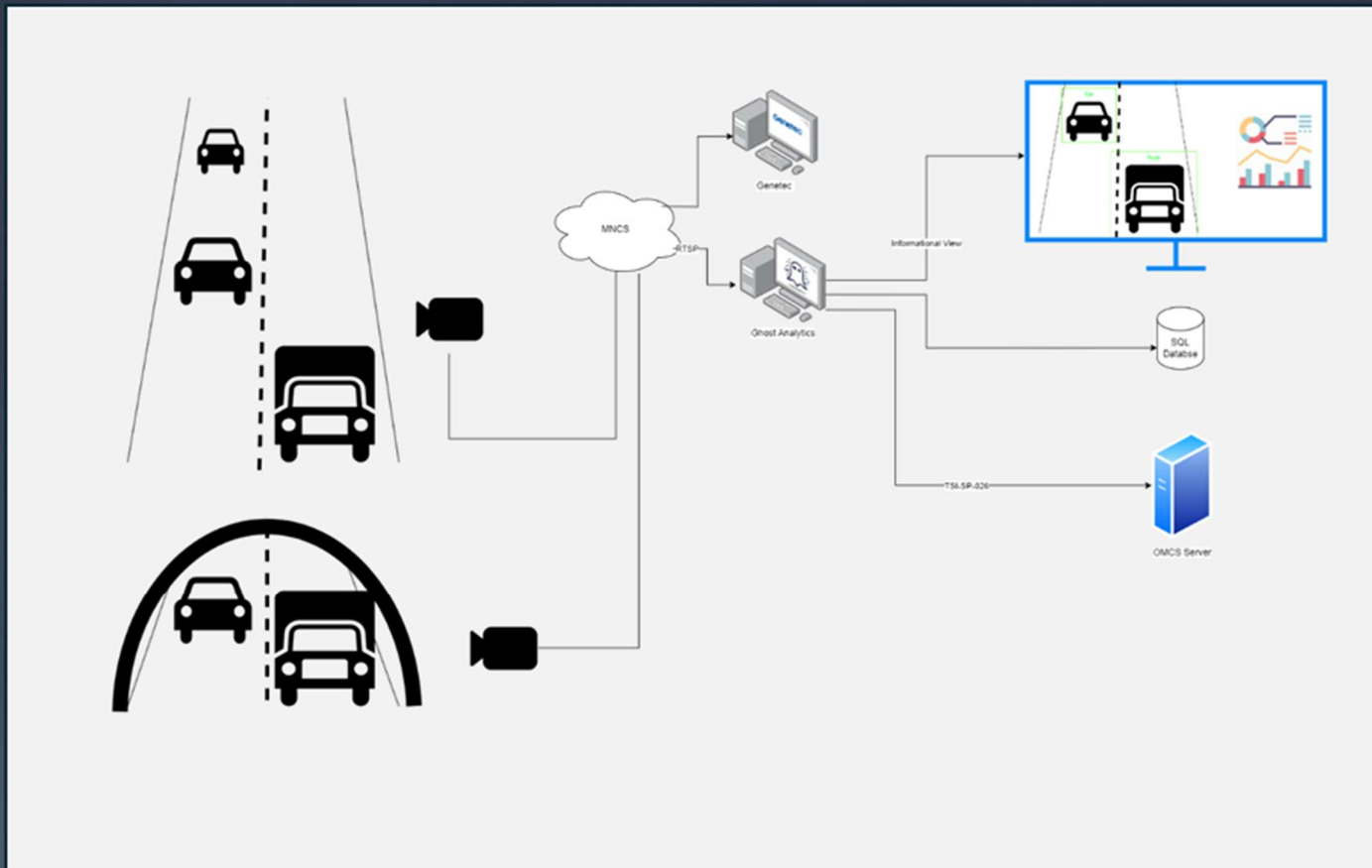
Induction Traffic Loops

Using Inductive Loops Installed in pavement



How does it work?

Our solutions has been thoughtfully designed to leverage your existing infrastructure, including CCTV systems and network configurations.



Our AI-driven solution integrates seamlessly with your current setup, requiring minimal adjustments. This ensures smooth operation with no significant disruption to ongoing processes, allowing you to enhance your traffic management and safety systems without costly overhauls or downtime.

This means:

- ✓ No new camera systems to be installed and commissioned
- ✓ Less assets to maintain
- ✓ Less points of failures for critical operation.

Our system is also cable of performing edge processing or central processing via a server.

User Interface Showcase

Interactive Site Setup

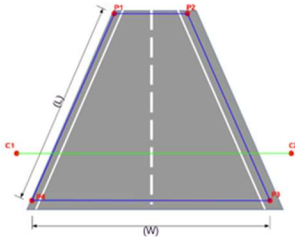
Stream Preview and Road Geometry Setup

RTSP URL

rtsp://192.168.0.179:8554/stream

Load Camera Preview

Start Road Geometry Setup



☒ 1. Load Camera Preview

☒ 2. Start Geometry Setup

☒ 3. Place P1

☒ 4. Place P2

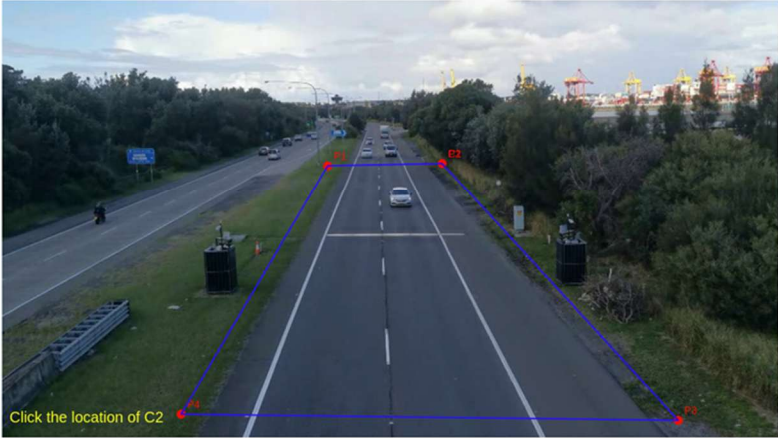
☒ 5. Place P3

☒ 6. Place P4

☒ 7. Place C1

☐ 8. Place C2

☐ 9. Save Parameters



Click the location of C2

Setting Parameters

Select Site

Botany

RTSP URL

rtsp://192.168.0.179:8554/stream

Polygon Coordinates

P1_x

402

P1_y

205

P3_x

835

P3_y

519

Line Zone Configuration

C1_X

544

C1_Y

202

Lane Configuration

Lane 1 Start

4

Lane 2 Start

10

Detection Parameters

Number of Lanes

2

Speed Multiplier

1.6

Confidence Threshold

0.5

IoU Threshold

0.5

Target Dimensions

Target Width

25

Save Parameters

Live Dashboard

GH0ST ANALYTICS

Dashboard

Graphs

Data Table

Video Stream

Configuration

Admin Configuration


Site Setup

Toggle Theme


Logout

Traffic Analytics Graphs


10-Minute Averages (Last 20 Minutes)



30-Minute Averages (Last 24 Hours)

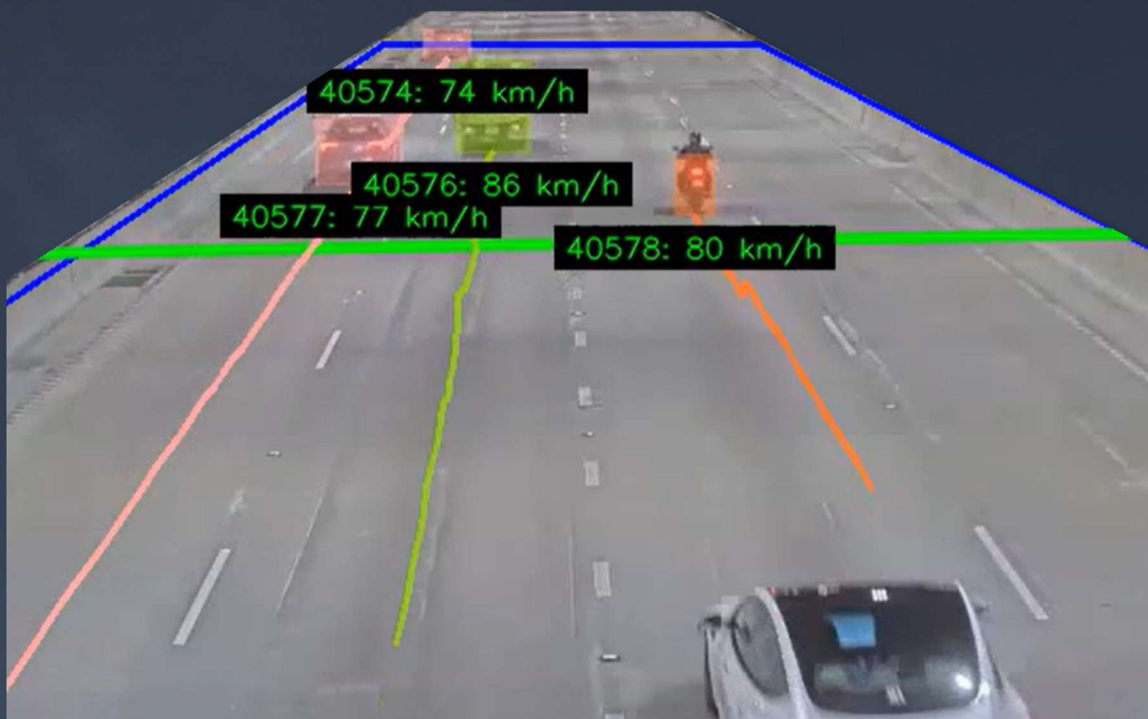


Daily Averages (Last Month)



User Interface Showcase

Traffic Detection (GhostTraffic)



Incident Detection (GhostSafety)



Contact Us

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