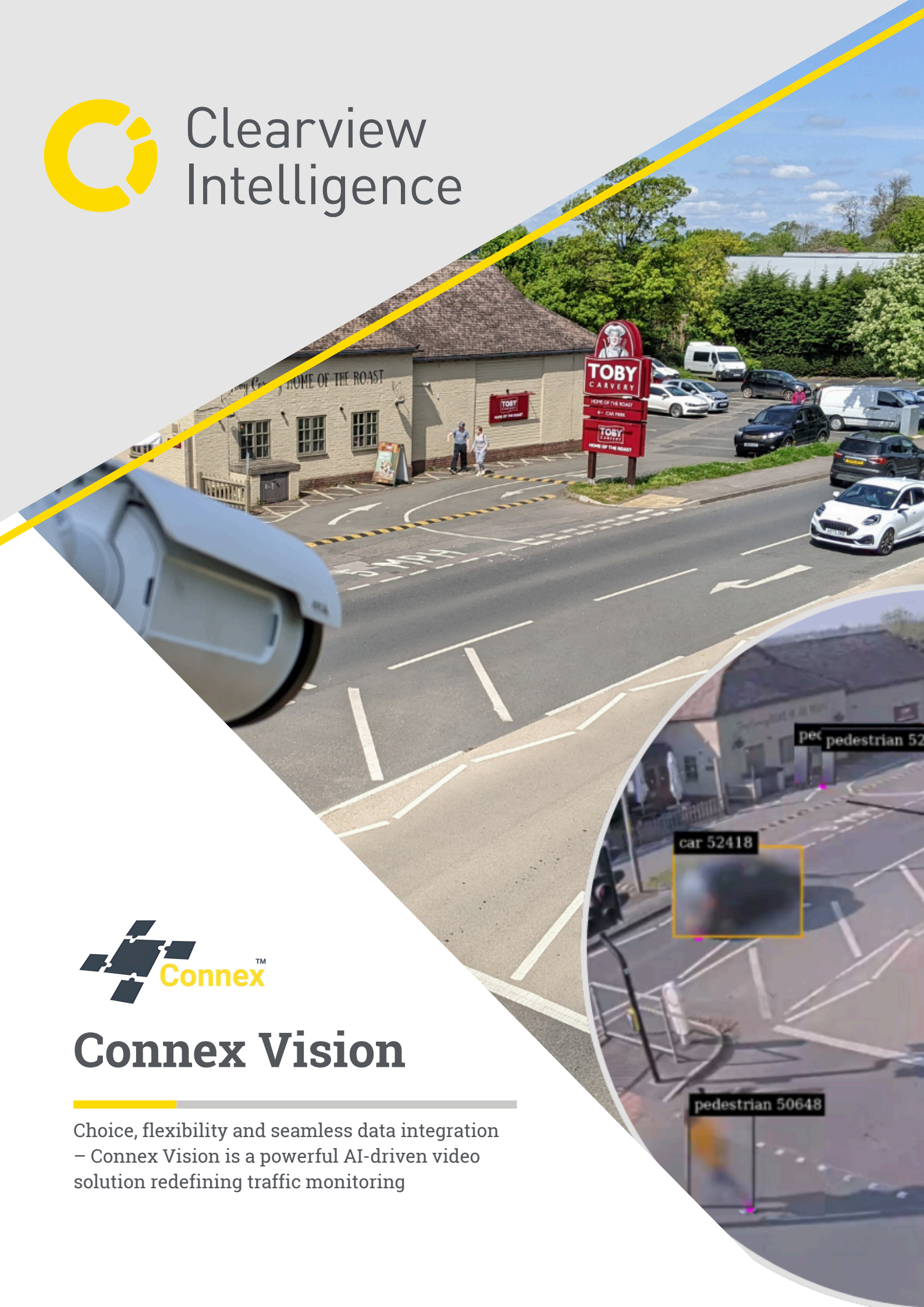
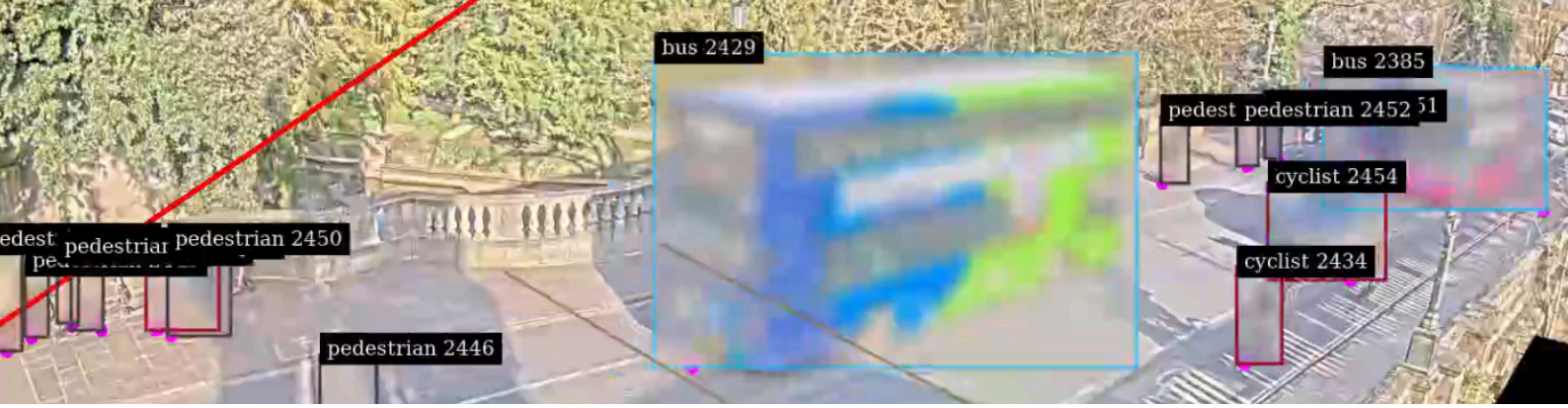
Clearview Intelligence



Connex™

Connex Vision

Choice, flexibility and seamless data integration – Connex Vision is a powerful AI-driven video solution redefining traffic monitoring



Connex Vision

Built on our adaptable Connex hardware platform, Connex Vision is a powerful AI-driven video solution redefining traffic monitoring

Using industry-standard cameras, it delivers real-time insights into traffic behaviour, empowering organisations to optimise transport networks with precision and efficiency.

Multi-Modal Traffic Management

Connex Vision now classifies and reports on 22 distinct road user classes. From pedestrians and cyclists to articulated HGVs and specialist vehicles, every class is accurately identified and fully reportable.
This enhanced classification delivers a comprehensive and reliable view of how roads are truly being used - providing clearer evidence for safety schemes and more accurate traffic intelligence for UK local authorities.

High-Precision - Non-Invasive Solution

With object-by-object detection, Connex Vision collects granular data on traffic flow, user behaviour, and safety risks, enabling informed decision-making. Its non-invasive design reduces installation time and costs by avoiding road surface modifications, ensuring quick deployment with minimal traffic disruption - ideal for busy urban environments.

Integration, Flexibility and Choice to Integrate

One of the most significant advantages of Connex Vision is its seamless integration with existing infrastructure. Whether utilising Clearview's Insight Data Management System or an organisation's own platform the system provides a centralised, real-time traffic monitoring solution. This flexibility makes it easy to implement in both new and legacy transport systems, ensuring authorities can enhance their traffic management without overhauling existing infrastructure. While many other operations are designed to work exclusively with their own data management platforms, Connex Vision gives authorities the choice to integrate with other platforms.

By combining event detection, contact closure and PLC logic, Connex Vision delivers a fully automated, intelligent solution for modern traffic and safety management.

Privacy Compliance

Built-in GDPR compliance ensures privacy by automatically blurring sensitive data - including faces, license plates, and cyclist identifiers - in real time, while still delivering valuable traffic insights.

Real-Time Monitoring and Event Detection

Connex Vision improves route safety with real-time video streaming and intelligent event detection, enabling instant responses to incidents. A single camera identifies critical events such as wrong-way drivers, pedestrians in restricted areas, and hazardous behavior:
The system can detect:

- Vehicle speed, lane, class and direction (e.g., wrong-way driving)
- Objects entering or exiting defined zones
- Stopped vehicles and headway gaps
- Poor visibility from weather or lighting conditions

Contact Closure & PLC Logic

When a critical event is detected, Connex Vision can instantly send alerts to the Insight data platform for logging or action. At the same time, it can activate a contact closure output to control local devices - such as triggering a VMS sign, or sounding an alarm - enabling real-time, on-the-ground responses.
At the core of this capability is an advanced Programmable Logic Controller (PLC). The PLC allows users to define sophisticated, rule-based logic tailored to the specific needs of each site.
For example:
<IF> a vehicle is approaching at a speed above 30mph
<AND> there is a stationary vehicle in Zone 2, then flash a warning sign.

Connex Vision

Additional Camera and VMS Integration

For complex junctions or high-risk areas such as floating bus stops, a second camera can be deployed to improve monitoring and detect potential conflicts between road users.
Connex Vision can also integrate with Variable Message Signs (VMS), triggering real-time alerts to warn cyclists, pedestrians, or drivers of potential hazards. This proactive approach enhances safety by providing immediate, location-specific warnings to road users, helping prevent incidents before they occur.

Future-Proofing the Transport System

Machine learning adapts to changing traffic patterns, emerging transport modes and new technologies. It ensures long-term effectiveness as cities grow, optimising real-time traffic management to meet the demands of smart infrastructure.

Insight Platform Integration

Connex Vision seamlessly integrates with Clearview Intelligence's Insight Data Management platform, offering advanced device management, data collection, analysis, and live stream capabilities. While Insight provides a suite of applications and tools, Connex Vision also offers the flexibility to integrate with other platforms, allowing users to tailor the system to their existing infrastructure.



Connex Vision monitoring Bus priority in Hull City

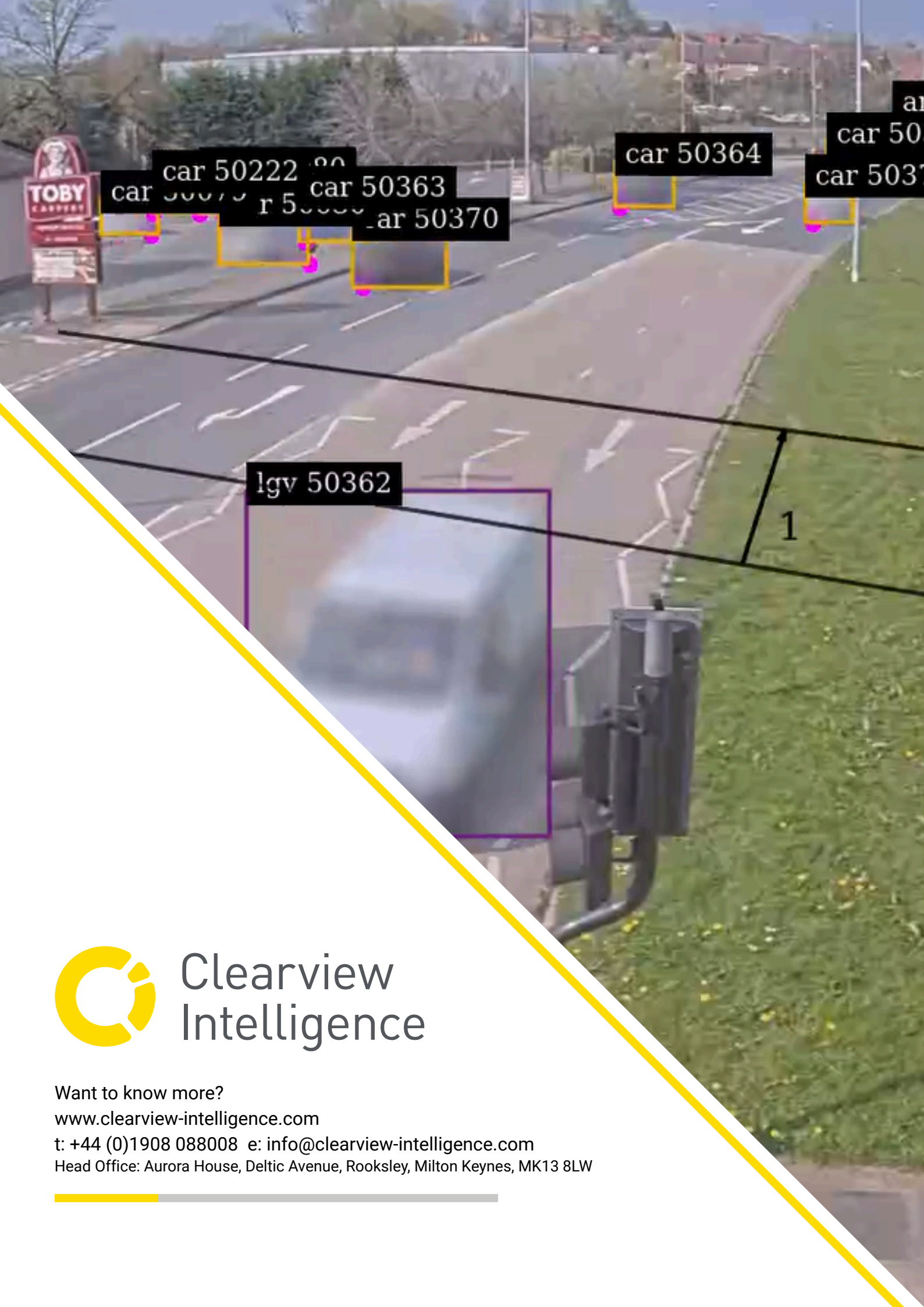
Key Features

- **Multi-Modal Traffic Classification** - 22-Class Road User Detection - from vulnerable road users to heavy goods and specialist vehicles, every class is accurately identified and fully reportable.
- **Object-by-Object Detection** - highly accurate granular data for deeper insights into traffic patterns
- **Advanced Event Detection** - identifies potential hazardous events such as wrong-way driving, pedestrians on the road
- **Compliance with GDPR** - blurs faces, license plate, and cyclist identifiers in real-time for privacy protection
- **Real-Time Video Streaming** - enabling faster decision making

Key Benefits

- **Minimal Disruption Installation** – non-invasive allows for fast deployment with minimal impact on traffic, saving time and resources
- **Machine Learning** Machine Learning ensures the system evolves with changing traffic patterns and emerging vehicle types
- **Interoperability and Choice** – supports integration with various sensors consolidating data into a unified platform for enhanced traffic management
- **Additional camera** can be added for extra perspective, complex junctions or high-risk areas
- **Sustainability** - operable from a renewable energy

Choice, flexibility and seamless data integration - Connex Vision is a powerful AI-driven video solution redefining traffic monitoring with 22-class road user detection.



Clearview Intelligence

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