

# Agentic Video Intelligence for Road and Traffic

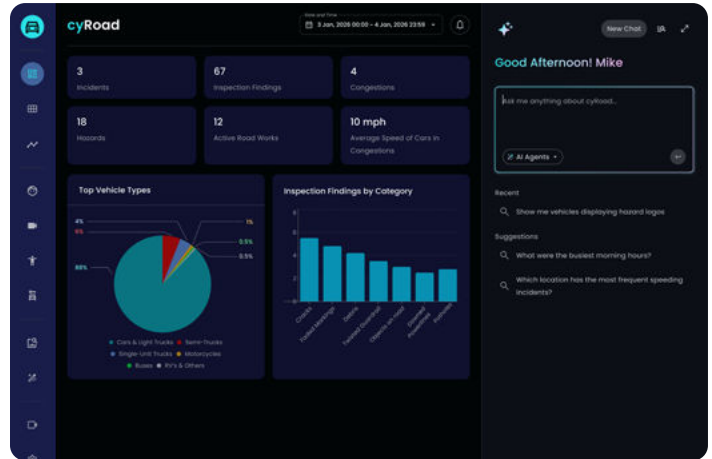
Thousands of miles of highway cameras are already watching your roads. cyRoad turns those silent observers into a proactive intelligence network - detecting incidents, protecting crews, automating reports, and keeping your network running at its best.

cyRoad | Smarter Roads. Safer Operations

# Four outcomes. One platform.

## Built for the agencies that keep roads moving

Transportation agencies face mounting pressure: rising fatalities, aging infrastructure, and limited resources. cyRoad delivers measurable gains in safety, planning, cost reduction and efficiency - all working with your existing camera infrastructure.



### Enhanced Road Safety

Detect incidents, hazards, and work zone risks in real time - reducing fatalities, protecting construction crews, and keeping road users safe across your entire network.

### Automated Response and Reporting

From incident detection to report generation - AI agents automatically trigger responses, notify teams, and produce reports, eliminating manual effort and accelerating every decision.

### Reduced Inspection Costs

Automated road inspection and early detection of surface defects - before they become costly repairs.

### Actionable Traffic Intelligence

Turn raw footage into planning intelligence - with automated analysis of flow, congestion, and network performance.

# From Raw Footage to Decisive Action



## Situational Awareness & Incident Response

- Accident detection
- Stationary vehicle, wrong way driving, overturned vehicle
- Obstacles, debris, fallen objects
- Oil spill, mud, flood, water hazards
- Smoke and fire

## Traffic Intelligence

- Average speed, directional count
- Congestion, queue length & wait time
- Vehicle type, make, model
- Vehicle appearance (color, dents, sunroof, etc.)
- Pattern identification & historical trend analysis

## Proactive Road Inspection

- Cracks, potholes, sinkholes & faded markings
- Damaged signs, signals & signboards
- Guardrail, barrier & bridge condition
- Storm drains & safety rest area monitoring
- Early defect detection reduces inspection costs

## Work Zone Safety

- Barricade and traffic cone compliance
- Worker PPE detection
- Slow traffic and congestion in lane monitoring
- Speeding near road works alerts
- Work progress tracking for planning efficiency

# Human-Like Video Understanding with an Intuitive Copilot & AI Agents

cynapse copilot

## Set

user-defined events

Create alerts for any behavior, violation, or anomaly.

## Get

insights dynamically

Use natural language to uncover insights instantly.

## Search

anything using prompts

Search video using prompts or visual inputs.

## Generate

business deliverables

Generate summaries, reports, emails, and visual outputs.

## AI Agents

- User-Defined Event Agent
- Event Verification Agent
- Discovery Agent
- Q&A Agent
- Summarization Agent
- Business Deliverables Agent

## Powered By

- Vision AI
- Domain Specific VLMs
- Domain Specific MLLMs
- Spatio-Temporal Vision Models
- Agentic Orchestration Framework

## Next-Generation Vision AI

At cynapse.ai, we provide Verticalized Agentic Video Intelligence solutions that help organizations enhance security, safety, compliance and operational efficiency.

Designed for mission-critical environments, including power utilities, transportation networks, seaports and correctional services, the cynapse platform detects risks, uncovers patterns, and enables faster response through AI agents and an intuitive copilot.