

Your cameras are already there, **now make them intelligent.**

Roads

Waste

Construction

Sidewalks

Lighting

Signage

And more

Powered by AI&™ · Trinetra™ · 24 Bn Parameter AI World Model

THE PLATFORM TRUTH

Every city in the world faces the same problem.

They make billion-dollar decisions about public spaces they cannot objectively monitor.

A pothole is reported weeks after it injures a pedestrian. A construction fencing violation goes unnoticed until an accident happens. A lighting pole failure leaves streets dark and dangerous.

CamCom delivers the objective, verified condition of every public space — at the moment action is needed.

CamCom changes that. Not for one city. For all of them.

AI&™ — Built Different. By Design.

24 Bn

Parameter Vision Model

Deep contextual understanding of surfaces, damage types, severity levels, and violation categories.

18 Bn

Training Tokens

Trained on real-world imagery across roads, properties, and infrastructure from 30+ countries.

VLM

Visual Language Model

Reasoning layer fusing vision and language — enabling nuanced decisions, not just classifications.

Violation Detection

PSE identification, violation classification, sub-clause tagging — across any surface, any public environment, at part level.

Severity Scoring

Quantified severity score per element — minor, moderate, critical. Consistent, objective, repeatable across any inspector or geography.

Delta Reporting

Current vs. prior inspection automated comparison. New violations flagged. Pre-existing conditions excluded. Fraud structurally prevented.

Ticketing Engine

Configurable rules — create, assign, escalate — applied instantly. Per municipality, per product line, per geography.

Geospatial Layer

GPS verification, boundary mapping, geofencing. Every inspection anchored to a verifiable location in the real world.

Security & Compliance

GDPR, ISO 27001. Audit trails for every decision. Cloud and on-prem deployment. Regulatory-ready across India, UAE, Europe.

What the Platform Does — Regardless of the Public Space



Visual Violation Detection

Identifies and classifies PSE violations — damaged sidewalks, waste, fencing issues, potholes, graffiti — across any surface, any urban environment.



Severity Scoring

Assigns quantified severity scores per violation. From a cracked sidewalk to an overflowing waste bin — objective severity, every time.



Geospatial Verification

Every inspection is geo-tagged, timestamped, and geofenced. The violation's location is verified simultaneously with its detection.



Delta Reporting

Compares current inspection against any prior baseline. Automatically identifies what is new — excluding pre-existing conditions.



Automated Ticketing Engine

Applies government-defined rules to create, assign, and escalate tickets — mapped to the correct regulatory clause and department.



Easy Integration

API-first. Plugs into existing city management systems, 311 platforms, and IoT infrastructure. No rip-and-replace required.

Any public space that poses a risk — can be inspected.

A non-exhaustive map of what the CamCom platform can detect and enforce.



Road & Infrastructure

- Potholes & asphalt damage
- Damaged sidewalks/pavements
- Road excavation unrestored
- Lighting pole failures
- Concrete barrier violations
- Signage damage or fallen
- Warning signs damaged/fallen
- Painting of pavements



Waste & Urban Cleanliness

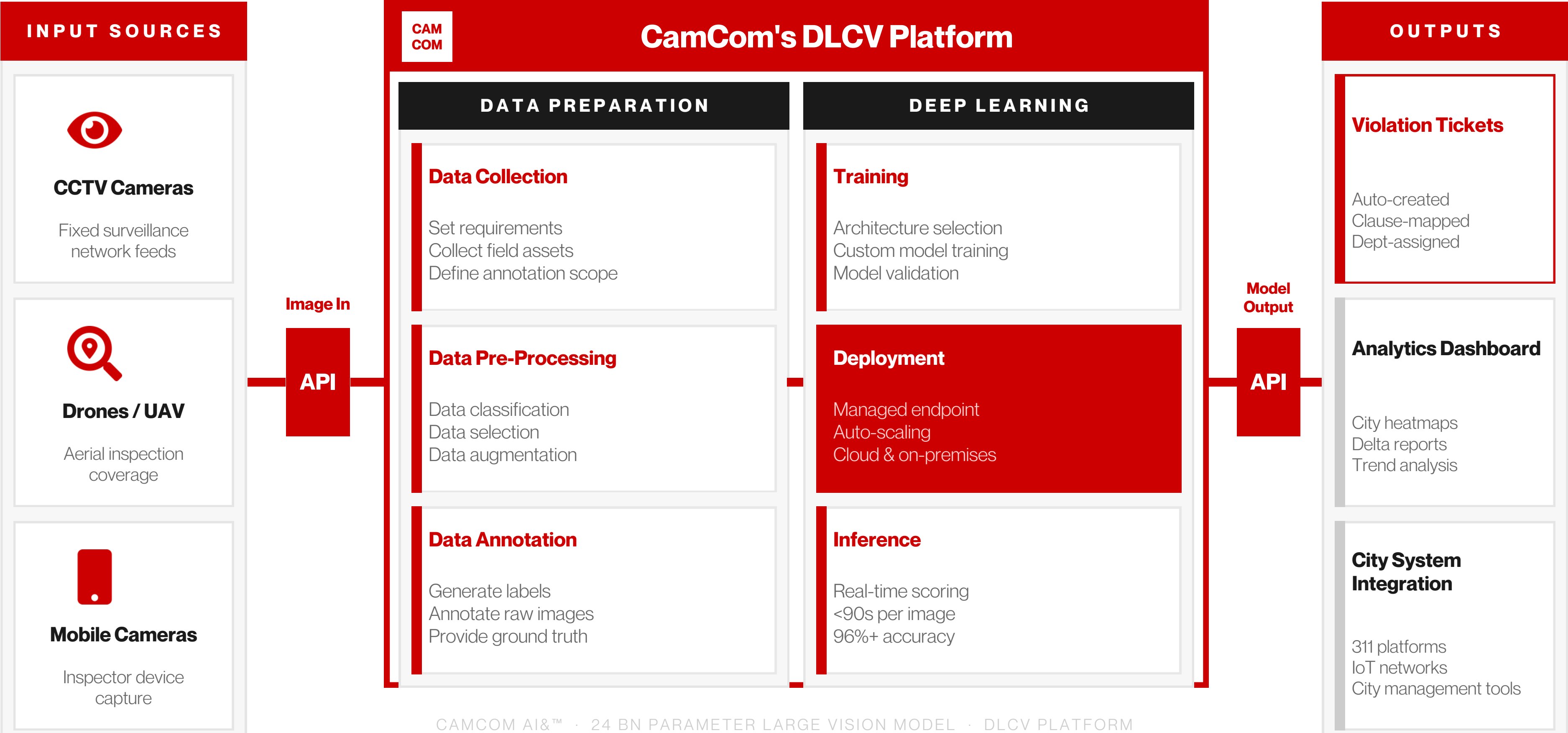
- Overflowing waste bins
- Waste accumulation around bins
- General litter in public spaces
- Construction/excavation waste
- Public dumping violations
- Dirty/unclean waste bins
- Illegal waste disposal
- Street cleanliness violations



Construction & Compliance

- Fencing violations (damaged, missing)
- Construction material on streets
- Graffiti & unauthorized markings
- Satellite dish violations
- Illegal roof structures/hangars
- Covered balconies (unauthorized)
- Commercial signboard issues
- Damaged/abandoned vehicles

Platform Architecture — How the DLCV Platform Works



USE CASES

The platform in action across every public space.

Each use case below is the same platform — same AI, same inspection discipline, same enforcement architecture. The public space changes. The intelligence doesn't.

Road & Infrastructure — Every Surface, One Platform

From a cracked pavement to a fallen lighting pole — the same AI inspection intelligence, adapted per element.



Potholes & Road Damage

Holes in asphalt, road excavation unrestored, cracked surfaces. Geo-tagged and severity-scored instantly.



Sidewalks & Pavements

Dilapidated pavements, missing paint on borders, damaged pavement borders. Continuous monitoring.



Lighting Poles

Fallen poles, damaged distribution boxes, non-working bulbs, exposed fixtures. Automated incident creation.



Concrete Barriers

Damaged, misaligned, mismatched, or unpainted barriers. Sub-clause level detection per regulation.



Signage & Warning Signs

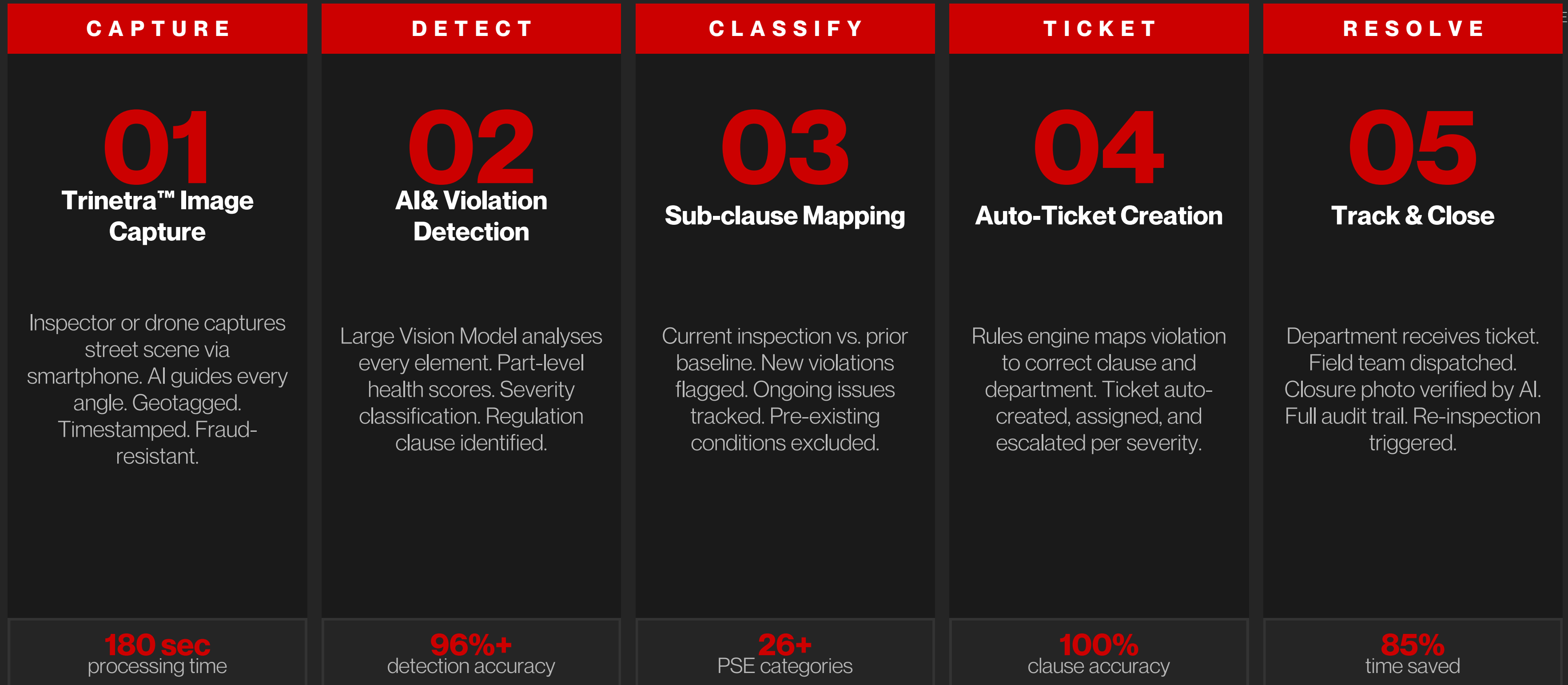
Damaged, fallen, or missing road signs and warning signs. Mapped to relevant municipal clauses.



Pavement Marking

Improper or missing road marking and painting. Visual compliance check against baseline standards.

Road & Infrastructure: The Detection & Enforcement Workflow



Waste & Urban Cleanliness — Real-Time, City-Scale

The same inspection intelligence applied to waste management — bin-level, street-level, city-scale.



Public Waste Bins

Overflowing bins, waste accumulation around bins, dirty containers. Real-time monitoring and auto-dispatch triggers.



General Cleanliness

Generic waste dumped on streets, sidewalks, or land. Instant detection, classification, and ticket assignment.



Construction Waste

Construction debris uncleared or dumped in public spaces. Contractor violations mapped to regulation clauses.



Facility Monitoring

Sanitation facility condition tracking. Usage monitoring, defect detection, maintenance issue identification.

Waste & Cleanliness: Platform Capabilities Applied



City-Scale Geo-Mapping

Every waste incident geo-tagged with precision coordinates. Street-level, ward-level, and city-level dashboards. Hotspot identification and resource prioritization.



Real-Time Visual Detection

AI evaluates bin fill levels, waste dumps, and street cleanliness — same detection logic as infrastructure, recalibrated for waste scenarios.



Pre & Post Event Delta Reporting

Baseline condition stored. Any new inspection compared automatically. New violations flagged instantly. Ongoing issues tracked for re-inspection.



Contractor Accountability

Violations linked to responsible contractor or operator. Clause-level evidence for enforcement. Penalties triggered automatically per regulation.



Continuous Monitoring

Periodic inspections scheduled for bins, public areas, and sanitation facilities. Condition drift detected over time. Proactive dispatch enabled.



Automated Ticket & Resolution

Severity triggers department assignment. Waste operator dispatched. Closure photo verified by AI. Full audit trail maintained.

Construction & Compliance — Regulatory Enforcement at Scale

Cities carry enormous compliance risk. CamCom extends inspection intelligence to construction sites and building facades.



Fencing of Construction Sites

Fencing damaged, not maintained, panels mismatched. Automated detection per clause. Contractor violation tickets created instantly.



Construction Materials & Waste

Materials dumped on streets outside buildings. Uncovered building material transport violations. Full clause-level evidence for penalties.



Building Facade & Structure

Plastering or painting defects, illegal roof structures, covered balconies, satellite dish violations, and AC duct non-compliance.



Signage & Unauthorized Structures

Commercial signboards damaged or missing, graffiti presence, street vendor violations, illegal car parking covers and canopies.

And everything else that threatens public safety.

The platform's inspection logic applies wherever there is a public space, a compliance regulation, and a camera.



Heritage & Cultural Sites

Inspection of tourist sites, monuments, and heritage structures. Proactive condition management for high-value civic assets.



Smart City Integration

Connects with 311 systems, IoT infrastructure, and city dashboards. Visual intelligence feeds into existing city management workflows.



Abandoned & Damaged Vehicles

Detection of damaged or abandoned vehicles in public spaces. Presence flagged, geo-tagged, and assigned for removal.



Street Furniture

Damaged or broken street furniture — benches, bus shelters, public toilets, bollards. Condition tracking and maintenance triggers.



Event & Crowd Management

Pre- and post-event inspection of public venues. Baseline vs. post-event delta to identify damage and ensure rapid restoration.



Any Newly Regulated Element

As new public safety regulations are enacted, the platform extends. New PSE categories integrated continuously. Same intelligence, new coverage.

THE TECHNOLOGY

One AI. Built for every surface.

AI& is not a generic vision model adapted for smart cities. It is the world's first Large Vision Model purpose-built for damage and violation detection — and it sees across every public space.

Public Safety Detection: A Three-Layer Process

To accurately determine if an image contains a violation and automate enforcement, three sequential AI layers are applied.

01

Detect the Public Safety Element

The first step identifies all public safety elements in the image — whether violating regulations or not. Roads, fencing, bins, barriers, signage, lighting. Every element tagged.

E.g. Concrete barrier, fencing, construction waste, sidewalk, light pole identified

02

Classify the Violation Category

The second step identifies which elements violate regulations — providing situational awareness and category-level classification. Damaged, fallen, misaligned, overflowing.

E.g. Concrete barrier violation, fencing violation, construction waste violation identified

03

Map to Regulation Sub-Clauses

The third step adds precision — tagging every violation to the specific regulation sub-clause. This enables high-accuracy automated ticketing and department assignment.

E.g. Barrier not painted, fence damaged, construction waste present, barrier not aligned

Platform Advantages

Enterprise-grade architecture built for municipal scale, regulatory precision, and real-time enforcement.



Scalability

Auto-scaling architecture supports dynamic workloads and high availability. From a single municipality to an entire nation.



Quick Detection Time

Detection time under 90 seconds per image. Swift processing of millions of street images from drones, vehicles, and mobile cameras.



Advanced Detection

Context understanding, category and sub-clause level detection. The most granular public safety AI available commercially.



Workflow Automation

API-based automation from image upload through violation detection, ticket creation, department assignment, and closure verification.



Secure Deployment

Cloud and on-premises deployment options per local government regulation. Full data sovereignty options available.



Data Security & Compliance

Data encryption, secure processing, GDPR compliance, ISO 27001. Audit trails on every detection and every decision.

The CamCom Public Safety Intelligence Platform

Two purpose-built components. One end-to-end violation detection loop. Applicable to every public space.



TRINETRA™

The Capture Layer

- **AI-guided real-time image capture**

Any smartphone or drone becomes a precision inspection instrument

- **Geo-tag, timestamp & geofencing**

Every image is location-verified, time-bound, and tamper-resistant

- **Adaptive capture flows**

Configurable per PSE category — roads, waste, construction, fencing

- **First-time-right validation**

AI rejects incomplete or incorrect images before submission

- **Multilingual & mobile-native**

Works for any inspector in any market, zero training required



AI&™

The Intelligence Layer

- **World's 1st Large Vision Model**

24 Bn parameters. Purpose-trained on damage, defects & public safety violations

- **Element-level violation detection**

96%+ accuracy — identifies PSE, classifies violation, maps to regulation clause

- **Severity scoring & incident reports**

Objective, repeatable scores no human inspector can replicate

- **Delta reporting**

Current vs. prior inspection — instantly flags new violations vs. ongoing issues

- **Rules-based auto-ticketing**

Fully configurable — auto-create, assign to department, escalate by severity

TOGETHER: Image Capture → AI Detection → Violation Classification → Auto-Ticket — Under 3 minutes, any public space.

P R O O F

Numbers that governments have measured.

Real deployment. Real outcomes. Kingdom of Saudi Arabia. These are not projections.

Platform Impact — Measured Across Live Deployments

13M+

Incidents Processed

Through the Vision Platform in Saudi Arabia
alone

85%

Time Saved per Case

Decrease in time spent by inspectors per
violation

83%

Faster Processing

Processing time reduced from 6 weeks to 1
week

\$50M

Cost Savings

Direct cost savings delivered to the
Government of Saudi Arabia

\$25M

Penalties Collected

Increase in penalties collected via AI-enabled
enforcement

1,500+

Threats Eliminated/Month

Adverse public safety threats prevented every
month

Case Study: Kingdom of Saudi Arabia

— Where the Platform Proved Itself



Manual inspections replaced with AI-powered, objective, clause-level enforcement at national scale.



Metric	Before CamCom	With CamCom	Impact
Inspection Time	6 weeks per case	1 week	83% faster
Inspector Effort	100% manual review	15% manual (spot check)	85% reduction
Incidents Processed	Manual, limited scale	13M+ processed	+900% scale
Penalties Collected	Baseline	\$25M additional	+\$25M revenue
Cost Savings	Baseline	\$50M saved	\$50M efficiency

“CamCom made our public safety inspections objective, scalable, and trustworthy — at a scope we never imagined possible.”

Kingdom of Saudi Arabia — First country to achieve UN SDG 11 compliance using AI

What No Other Platform Can Offer



Purpose-Built, Not Adapted

AI& was not a generic vision model fine-tuned for smart cities. Designed from the ground up — 24 Bn parameters trained specifically on damage, violations, and PSE conditions.



One Platform, Every Public Space

Roads, waste, construction, fencing, lighting, signage. No parallel systems. No re-integration. One platform that grows with the municipality.



Detection to Ticket in 3 Minutes

No field visit. No manual review for clean cases. End-to-end — from first image to auto-created ticket — automated by the platform.



Enforcement-by-Design Architecture

Geotagging, timed sessions, geofencing, regulation clause mapping, cross-inspection delta reports — enforcement rigour is structural, not a feature.



Government-Configurable at Every Layer

Capture flows, violation taxonomies, approval rules, ticketing workflows — all configurable per municipality, per regulation, per geography.



Live Government Deployment

Not a pilot. Not a proof of concept. The Kingdom of Saudi Arabia. Real deployments at scale, achieving the world's first AI-powered UN SDG 11 compliance.

EXPERIENCE THE PLATFORM

Your cameras are already there, now make them intelligent.

Book a live demo across your public safety use cases — roads, waste, construction, or beyond.

Roads · Waste · Construction · Sidewalks · Lighting · Signage · And more