

THE COUNTRY THAT TAUGHT ITS CITIES TO SEE.

Saudi Arabia's Ministry of Municipal and Rural Affairs and Housing deployed CamCom's computer vision platform across the Kingdom – and became **the first nation on earth to reach UN SDG 11 compliance**, with 7 million public safety incidents now detected, classified and routed every month.

1ST WORLDWIDE · UN SDG 11 | 43+ DETECTION CATEGORIES | 7M INCIDENTS / MONTH | NATIONWIDE COMMAND CENTRE INTEGRATED



RIYADH · NATIONWIDE ROLLOUT

CLIENT

Ministry of Municipal & Rural Affairs and Housing (MoMRAH), Kingdom of Saudi Arabia

MANDATE

Urban planning, city enhancement and municipal services nationwide

SCOPE

AI detection, classification and routing of 43+ public safety and infrastructure violation types

RECOGNITION

Ministry Certificate of Achievement, October 2025

THE CHALLENGE

MoMRAH could see problems in its cities. It could not see all of them, fast enough, or the same way twice.

01	02	03	04
Coverage at national scale Surveillance had to expand from a handful of districts to every city in the Kingdom.	Subjective judgement 43+ infrastructure and safety categories, each assessed differently by each inspector.	Manual review backlog Thousands of images and videos checked by hand, delaying every resolution downstream.	No prioritisation Without automated reporting, incidents were queued in the order they arrived – not by risk.

THE CAMCOM SOLUTION

One AI layer across the Kingdom's existing imagery – detection through to verified departmental action.

A AI DETECTION ENGINE

- **Context-aware vision.** Deep learning reads spatial relationships, object co-occurrence and topology variation for precise violation calls.
- **GIS-integrated.** Detections filtered against geospatial business rules to raise contextual accuracy.
- **Self-improving.** Out-of-distribution detection, self-supervised and active learning keep models current.
- **Built to scale.** Optimised inference pipelines process millions of images per year.

B CLASSIFICATION & ROUTING

- **Auto-classification.** Every incident mapped to its regulatory subclause and assigned to the owning department.
- **Severity scoring.** Violation quantity and severity detected, so the highest-risk cases surface first.
- **Evidence attached.** Incidents auto-generated with imagery, location and category details ready for action.
- **Adaptive.** New use cases and regulatory changes absorbed without rebuilding the pipeline.

C CENTRAL COMMAND CENTRE

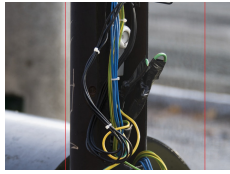
- **Live dashboard.** Key data points surfaced for real-time command centre monitoring.
- **Automated alerts.** Mobile and email notifications sent to the responsible officer on detection.
- **Geo-tagged map.** Every violation plotted for location-based analysis and dispatch.
- **Trend analytics.** Historical data exposes high-risk areas and recurring violation patterns.

WHAT THE PLATFORM SEES

A sample of the 43+ categories detected, scored and routed automatically — from live imagery, not manual inspection.



OVERFLOWING BINS
Illegal dumping & litter hotspots



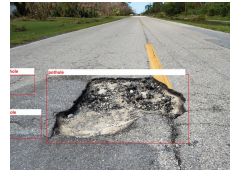
EXPOSED WIRES
Live electrical hazard to public



CONSTRUCTION WASTE
Debris and unsecured site spill



OPEN MANHOLE
Fall risk on public right of way



POTHOLE
Road surface failure & cracking



BROKEN LAMP POST
Damaged lighting & utilities

THE RESULTS

Measured across the Kingdom after nationwide deployment.

1ST

NATION WORLDWIDE

UN SDG 11 compliant, achieved through nationwide AI-powered urban monitoring.

62%

FEWER CASUALTIES

Reduction in fatalities and casualties across the Kingdom.

\$8M → \$15M+

ANNUAL COST SAVINGS

USD 8M saved in year one, sustained above \$15M every year after.

83%

Faster resolution of safety incidents

90%

Smaller on-site inspection workforce

91%

Increase in operational efficiency

96%

Wider surveillance coverage

76%

Lower operational costs

67%

Faster case processing — 3 weeks to under a week

\$20M

Penalties enforced on safety violations

7M

Incidents processed every month



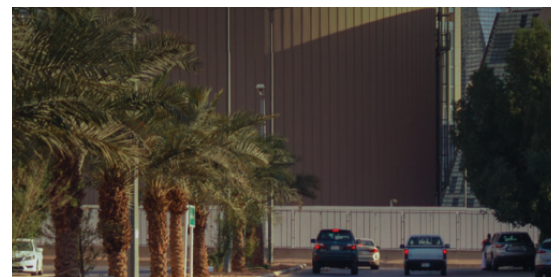
“Our collaboration with CamCom in bringing Computer Vision as a bleeding-edge enabler has resulted in **highly encouraging results**. We are proud and excited to formalise our partnership with CamCom and work with their bright and committed team. We look forward to working with CamCom to extend the application of AI and CV to other high-priority topics.”

ALI RAJHI — Assistant Minister, MoMRAH, Kingdom of Saudi Arabia

THE OUTCOME

MoMRAH now runs a single, objective standard for public safety across every city it governs. Detection, classification and departmental routing happen automatically; the command centre sees the Kingdom in real time. The programme is aligned to **Saudi Vision 2030** and **UN SDG 11** — cities that are inclusive, safe, resilient and sustainable.

- **Global leadership.** Saudi cities set the international benchmark for AI-driven hazard detection and urban innovation.
- **Citizen experience.** Faster, evidence-based response replaces complaint-driven maintenance.
- **A platform, not a project.** New use cases and regulatory changes are absorbed without rebuilding the pipeline.



ONE OBJECTIVE STANDARD, EVERY STREET



SDG 6

Clean Water & Sanitation

SDG 7

Affordable & Clean Energy

SDG 8

Decent Work & Economic Growth

SDG 9

Industry, Innovation & Infrastructure

SDG 11

Sustainable Cities & Communities

SDG 12

Responsible Consumption & Production

YOUR CITY ALREADY HAS THE CAMERAS.

CamCom deploys as an AI layer on the CCTV, dashcam and citizen imagery a city already runs.

www.camcom.ai

Talk to us about a pilot in your city