



2026 | CASE STUDY | NETWORK SCIENCE

SITE MONITORING AND SAFETY ANALYTICS VIA DRONES AND CCTV

Overview

1.

A leading construction company partnered with Network Science to replace manual surveillance with an AI-driven monitoring system. Manual inspection was too slow, too costly, and too error-prone for large-scale infrastructure projects. The solution integrated drones, CCTV, and computer vision across safety, security, and operational domains.

Solutions & Strategy

2.

Integrated drones, CCTV, and computer vision enabling real-time site monitoring, automated risk detection, and enhanced safety compliance across construction projects.

Solution

Drone-Based Site Monitoring

AI-Powered Safety Compliance

Computer Vision Risk Detection

Integrated Security Intelligence



4.

- Manual surveillance dependency significantly reduced across all site functions.
- Safety compliance improved through automated, real-time detection and alerting.
- Volumetric measurement accuracy improved, optimizing resource planning.
- Operational costs lowered through reduced human inspection requirements.



Integrating AI, drones, and computer vision across construction operations gave this client a scalable, always-on monitoring system. Automation replaced manual inefficiency, elevating both safety standards and operational performance across large-scale infrastructure projects.

