

SIYTE for Rail

SITUATIONAL & ENVIRONMENTAL AWARENESS ACROSS THE RAILWAY

SIYTE connects cameras, sensors and operational systems across rail, surfacing fragmented data for AI-driven insights. It helps teams predict, detect and mitigate risks across stations, trackside assets, depots and the wider network.



INTELLIGENCE TO ACTION

01 INTEGRATE WITH EXISTING ASSETS

Apply analytics to, and unify data from, existing cameras and sensing systems

ENHANCE EXISTING ASSETS

02 WHOLE SYSTEM INTERFACE

Remotely accessible web and mobile dashboards to access and analyse all data and alerts in one place

WHOLE SYSTEM INTERFACE

03 APPROPRIATE ACTIONS

Workflow can initiate announcements, multi-channel alerts or audit events for analysis dependent on context

PROPORTIONATE ACTIONS

98%+ ACCURACY DRIVING TRUST

False alerts reduced by 98% in live UK rail deployment - ensuring teams can trust that alerts are genuine.

100m+ UNLIMITED SCALABILITY

SIYTE has cloud administration and scalability, analysing 100 million data points every day.

Safety, Security & Resilience through Situational & Environmental Awareness

SIYTE aggregates information from CCTV, sensors and systems, using AI to turn fragmented data into a unified operational picture in four key domains:

01 Trespass & Situational Awareness

Advanced AI models can profile suspicious activity as well as detecting trespass and criminal damage

SUSPICIOUS & CRIMINAL ACTIVITY DETECTION

02 Flood Monitoring & Environmental Awareness

Integrate IoT sensors, CCTV & third-party systems to monitor pumps, environmental conditions, asset condition and more...

ASSET CONDITION • ENVIRONMENT • PUMPS • ACCESS

03 Smarter, Safer Stations

Monitor people flow, crowding, assets, trespass and anti-social/violent behaviour in stations through a combination of camera and sensor analytics

FLOW • TRESPASS • ASB • VAWG • CROWDING

04 Geotech Monitoring

Unify sensing, CCTV and IoT data into a single AI-driven web, mobile and chat interface for Geotech intelligence & alerts

SENSING • CCTV • WEATHER • AI INSIGHTS

Re-use, Control & Assure



END TO END ENGINEERING ASSURANCE

SIYTE Engineers advise on everything from cameras to integrations, ensuring smooth delivery.



INVESTMENT PROTECTION

SIYTE integrates with any existing CCTV, sensor or other system.



SECURE

All data is encrypted in transit and at rest. Role-based permissions for all aspects of system access.



GDPR COMPLIANT

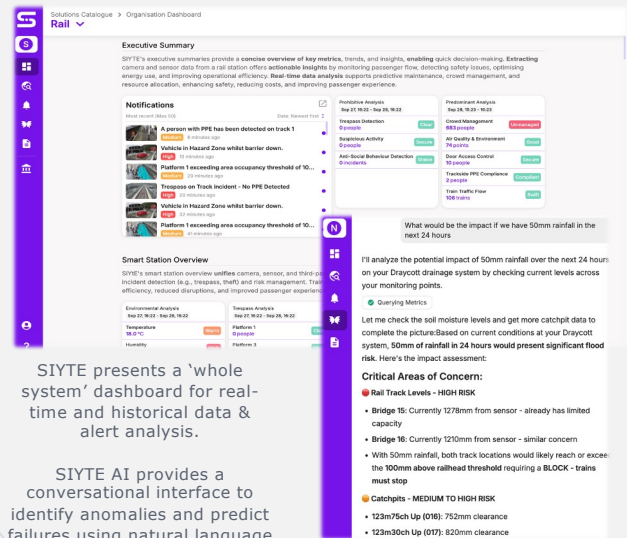
Personal information (faces) removed from all images. Data retention enforcement.



CERTIFIED

ISO 9001 / 14001
27001 / 42001

Whole Systems' Interface



The dashboard displays an 'Executive Summary' with key metrics and insights. It includes a 'Notifications' section with alerts such as 'A person with PPE has been detected on track 1' and 'Platform 1 exceeding area occupancy threshold of 10...'. There is also a 'Smart Station Overview' section showing environmental analysis and trespass analysis. A 'What would be the impact if we have 50mm rainfall in the next 24 hours?' section provides a detailed analysis of potential impacts on the drainage system, including critical areas of concern like 'Rail Track Levels - HIGH RISK' and 'Bridge 15: Currently 1278mm from sensor - already has limited capacity'.

See SIYTE in action

See how SIYTE connects your existing cameras and sensors to support faster verification and response.



BOOK A DISCOVERY SESSION



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