

SIYTE for Critical Remote Rail Sites

SITUATIONAL AND ENVIRONMENTAL AWARENESS FOR REMOTE SITES (REBS)

SIYTE connects cameras, sensors and existing systems to provide situational and environmental awareness. Teams can monitor remote assets, identify unusual activity and assess security or operational issues from a unified service, increasing resilience and reducing boots on ballast.



FROM INTELLIGENCE TO ACTION

01 SYSTEMS INTEGRATION

Single operational platform for CCTV, IoT, other existing interfaces (e.g. for HVAC, UPS and door access systems)

CAMERAS • IOT • EXISTING SYSTEMS

02 ANALYTICS & INSIGHTS

Advanced CCTV analytics can identify suspicious & criminal activity. AI driven analysis enables risk-based maintenance

AI SITUATIONAL AWARENESS & RISK BASED MAINTENANCE

03 ACTIONABLE INTELLIGENCE

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

VERIFY • PRIORITISE • DISPATCH

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.

Single Operational View

Monitor people, vehicles, access points, equipment and environmental conditions across remote infrastructure. SIYTE correlates activity across data sources so teams can distinguish routine activity from events that need attention.

01 Situational Awareness

Detect criminal damage and theft at sites. Advanced AI models can also profile suspicious activity, initiating automated announcements to serve as deterrent.

SUSPICIOUS & CRIMINAL ACTIVITY DETECTION

02 Environmental Awareness

Integrate IoT sensors & existing systems to monitor temperature, humidity, water ingress, battery condition, access control, UPS, HVAC and more

ASSET CONDITION • ENVIRONMENT • PLCS • ACCESS

03 Track Trespass

REBs are often associated with unauthorised track access. Monitor track trespass – use automated announcements as a first line of intervention with real-time alerts informing further action.

TRESPASS • AUTOMATED DETERRENT

04 Remote Surveys & Asset Monitoring

Cameras in REBs can support remote surveys and audits. LoRaWAN connectivity can extend many km down the track, enabling IoT monitoring of gates, drainage and other assets.

REMOTE SURVEYS • TRACKSIDE IOT

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

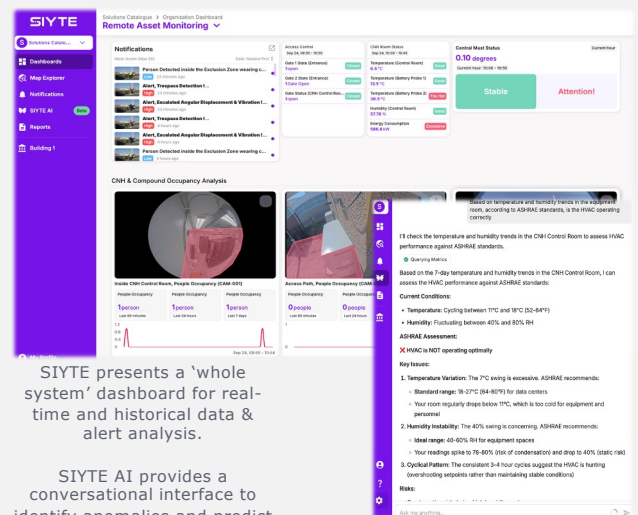
Personal information (faces) removed from all images. Data retention enforcement.



CERTIFIED

ISO 9001 / 14001
27001 / 42001

Whole Systems Interface



SIYTE presents a 'whole system' dashboard for real-time and historical data & alert analysis.

SIYTE AI provides a conversational interface to identify anomalies and predict failures using natural language

START WITH A 20 MINUTE DISCOVERY SESSION

See SIYTE in action

See how SIYTE utilises CCTV Analytics and IoT Sensing to deliver insights and understanding of your physical world.



BOOK A DISCOVERY SESSION



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