Trespass Detection and Deterrent

SiYtE Smart Analytics

Purple Transform's mission is to help our customers to harness AI to improve safety, mitigate risk and improve efficiency, using our Smart Analytics platform, SiYtE.
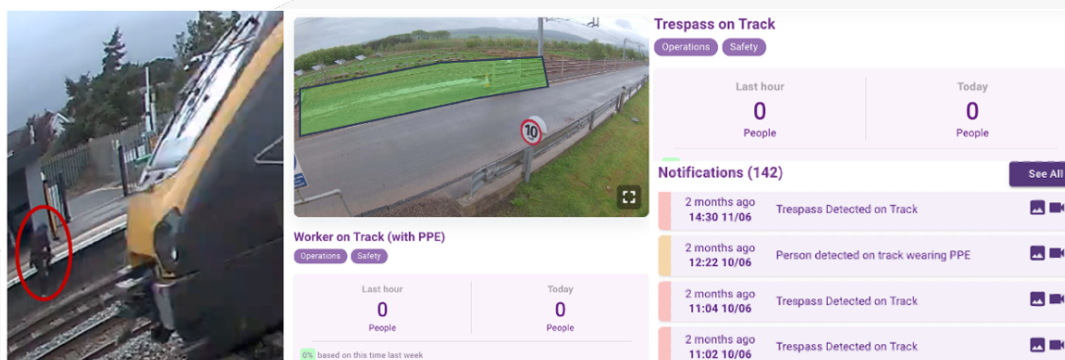
Impact of Trespass and Challenges in Detection

Trespass is a serious safety concern, especially in dangerous environments such as railways, highways and power networks.

Trespass can be a precursor to criminal damage, vandalism and theft, especially for remote locations. Detection and deterrent of trespass is the first step in reducing this risk.

Technology solutions for the detection of trespass are often challenged by false detections, with responders losing confidence in these systems and ignoring alerts.

SiYtE Smart Analytics for Trespass Detection and Reduction

SiYtE leverages advanced AI technology to analyse real-time CCTV, from existing cameras, to identify potential trespassers and alert appropriate responders. This system has been proven to work on the railway, with firm evidence of both detecting and reducing trespass.

o **Deterrent:** Trespass detection can be linked to automated announcements from speakers embedded in cameras or external speakers to deter trespassers.

o **Real-time alerting:** SiYtE alerts stakeholders to events via SMS, Email or Mobile App), with redacted snapshots/videos, and can add context (e.g. wearing PPE).

o **Data Insights:** Logging and reporting of trespass events for analysis for better decision making (e.g. informing a business case for improved fencing).

SiYtE Smart Analytics vastly reduces false alerts, enabling responders to trust the system:

o **Removing False Alerts:** SiYtE re-analyses each detection using advanced models to ensure genuine trespass events. For example, it can detect if a person is seen through a train window and remove such false alerts.

o **Added Context, Better Decisions:** SiYtE can add context to alerts, such as detecting PPE, which assists in making more informed decisions.

For more information or a demonstration please contact info@purpletransform.com