

Smarter, Safer Stations







SiYtE Smart Analytics

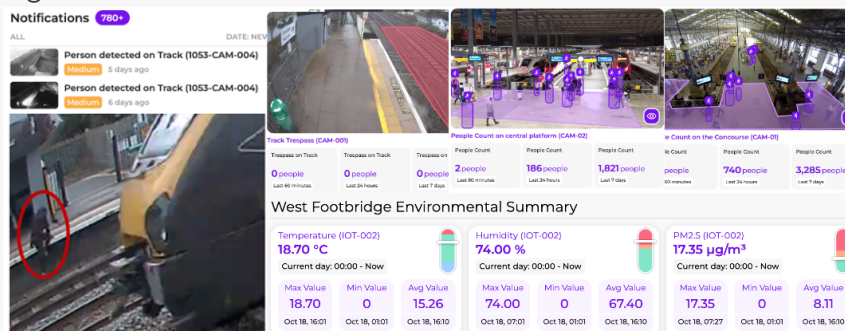
Purple Transform's mission is to harness AI to enable the rail industry to improve safety and achieve train performance targets, using our Smart Analytics platform, SiYtE.

SiYtE is a Software as a Service platform which analyses CCTV analytics, IoT sensors and third-party data sources to both present data insights via an intuitive web/mobile interface and generate alerts, with redacted imaging providing staff context to act appropriately.

Solutions SiYtE provides for Rail include **Trespass Detection and Reduction, CNI Situational and Environmental Awareness, Extreme Weather Insights and Alerts, Crossing Safety, Bridge Strike** and **Smarter, Safer Stations**.

The Benefits of SiYtE in Stations

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Trespass is a significant cause of train delays. At one unstaffed station where SiYtE is installed, it detected 6 track trespass incidents in just 6 weeks, with many of them children. Most would not have been reported without SiYtE.
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 There are 250 deaths by **suicide** across the railway every year. Not only do these tragedies come at a social cost they also cause widespread disruption. SiYtE has algorithms to alert staff to vulnerable people based on a combination of risk criteria.
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 Platforms can become crowded very suddenly, both a common cause of delay and a safety concern. SiYtE can detect **platform crowding** and combine this with train arrival data to provide comprehensive real-time monitoring.
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 Especially at unstaffed stations, **station and platform** usage is useful but difficult to measure. SiYtE can measure and provide this, as well as trend analysis over time
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 Passengers requiring **mobility assistance** without station knowledge may miss trains or result in possible delays. SiYtE can alert staff at stations or on trains when a passenger with a mobility aid is detected on the platform without identified assistance ready.
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 There are a wide range of uses for **IoT sensors**, such as air quality, escalator operation, lift and toilet usage and drain levels. SiYtE combines data from both cameras and sensors.



SiYtE is a cloud-based platform requiring no camera asset renewal with:

- Integration with existing CCTV infrastructure (no smart cameras required), using small local compute nodes to analyse camera streams at stations.
- Cloud scalability, enabling hundreds of sites to be centrally configured and managed.

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

