



SMARTCONE
LEADING THE EDGE

www.thesmartcone.com



RedZone

Dynamic Proximity Alerts

Workplace Accident Prevention

RedZone by SmartCone - Design

The core system delivers a dynamic perimeter surrounding any physical asset. As the asset moves, the operator and nearby workers are automatically alerted to each other's presence which reduces the risk of collisions and near miss incidents.

TheSmartCone Constellation

These modules are placed around a physical asset (local Proximity System) or throughout a facility (Wide Area Positioning) to provide high accuracy, real-time positioning that allows locating workers and physical assets, both indoors and outdoors, with no dependency on GPS.

TheSmartCone Gateway

Aggregates data from the Constellation modules through our patented PATRIoT software, providing a real-time dashboard as well as automated alerting rules for pre-set zones. Proximity intrusion alerts are forwarded by way of redundant fused warning systems.

TheSmartCone SmartTorch Visual Alarming Modules

These are worn by each worker to detect their position and send visual alerts to both the worker and the operator when a Redzone is breached. The alert data is available to supervisors in real-time and can incorporate all vehicles and workers on site when the Wide Area Positioning system is installed.

Click IoT

The design allows for additional sensors to be added with a simple "click" to expand the solution's capabilities. Options to add intelligent video, temperature sensors, RADAR, LIDAR, UltraWideBand and RFID tracking for assets lead to enhanced monitoring capabilities.

Contact Us

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Improved Worker Safety

Traffic Management Plan

Incidents involving rolling stock and workers have been well documented. Existing traffic management plans can be upgraded as part of the RedZone system. TheSmartCone ecosystem can be configured to address all movement requirements including identifying the safest routes, establishing right of way rules, communicating protocols between equipment operators and separating work areas between workers and equipment when material is being loaded or unloaded.

Worker Status and Alerts

The RedZone Smartcone system can be further configured to verify PPE status, send alerts at blind corners, confirm that there is ample separation between vehicles and workers, ensure sufficient route clearance for autonomous vehicles and several other configurations.

Reporting and Analysis

RedZone is a modular system that can be configured for any existing or future sensor, camera or use case to facilitate the development of the safety team's traffic management plan. SmartCone can characterize, track and analyze data allowing for automated monthly reports as well as the quick confirmation of the effectiveness of current security measures.

About SmartCone

SmartCone (www.thesmartcone.com) is a modular IoT ecosystem developed to provide end to end solutions which are simple to integrate and deploy.

Solutions are designed/configured to ingest, analyze and transmit either aggregated or discrete data. TheSmartCone ecosystem interacts with on-premise servers, cloud services, mobile phones/tablets, laptops, other SmartCones and any number of digital devices via various communications platforms including 4G, 5G, Private LTE, WIFI, Bluetooth, RFID, UWB or SubGhz radio.

Each use case is configured with an edge computing device, a powerful full stack application software platform including an elements database, scripting language and an IDE with front end development components.

Other proven use cases include vulnerable road user warning systems from AutoGuardian by SmartCone (www.autoguardian.ca) in addition to microclimate and heat mitigation notifications from HeatGuardian by SmartCone (www.heatguardian.com).