

Proximity Warning & Personnel Detection

Site Zone Safety
by OnGrade



Keeping the workplace safe for personnel with proximity warning technology

Our Company

When you choose to buy a SiteZone product you are choosing to invest in health and safety for your personnel and others, that is an investment we take very seriously. The investment in SiteZone isn't just buying a product, it's buying so much more.

- » Leading innovators in pedestrian safety solutions
- » The UK's preferred proximity warning system
- » An end to end solution including consultation, site survey, installation, training, after sales service and application support
- » Site optimisation to ensure successful deployment of SiteZone
- » The reassurance of thousands of successful installations and millions of man hours worked
- » Consultative and methodical approach to ensuring our products meet your applications requirements
- » A commitment to helping our customers meet their safety goals
- » Core expertise in the markets in which we operate
- » UK wide support network

Remember stay safe, choose SiteZone



Construction

We work with some of the biggest names in the UK construction industry across all activities from building to major civil engineering projects including rail. Our SiteZone PWS has been deployed thousands of times across the construction industry with many millions of man hours worked.



Quarries & Aggregates

The quarries and aggregates sector is about more than the activity at the quarry face. There are many application areas where the deployment of SiteZone can reduce the risk of plant - personnel collisions including batching plants and depots.



Rail

The use of mobile equipment in the rail sector is wide ranging with plant being used in activities from the construction of new railway line through to the maintenance and modernisation of existing infrastructure. With a working environment that includes night time working and the use of industry specific vehicles the rail environment can be extremely demanding. Not only does SiteZone have the flexibility needed for the rail applications but our team has years of experience in designing products for use and operating in the rail sector.



Waste & Recycling

With such a wide variety of sites the waste and recycling industry is a challenging one. SiteZone is deployed across the UK in almost every type of waste and recycling environment including waste transfer stations, material recycling facilities, land fill operations, energy from waste and even civic amenity sites.



Warehouse, Logistics & Industrial

Forklift trucks are one of the most commonly used industrial vehicles and unsurprisingly are responsible for a high proportion of the incidents relating to plant – personnel collisions. As with all our other areas of operation we have developed dedicated solutions to ensure the best possible result whether our customers are working in a warehouse or operating a large port.



Utilities

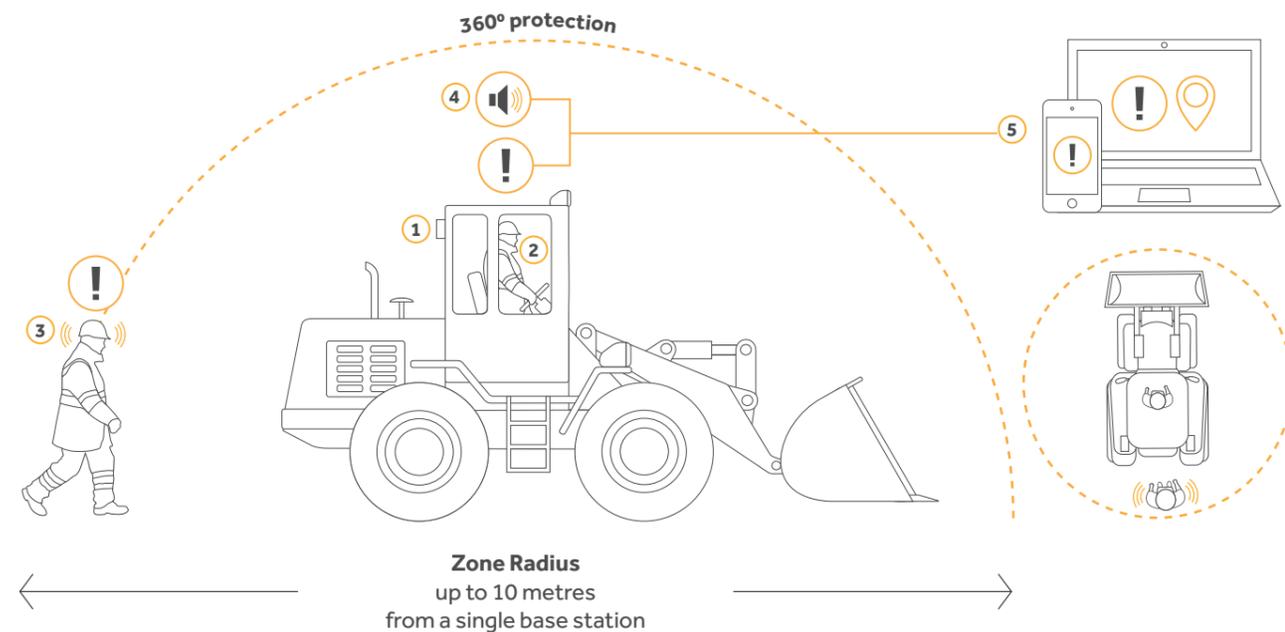
The infrastructure required to ensure that the lights stay on and clean water comes out of our taps is vast. The use of mobile plant is wide spread with many of the applications undertaken requiring staff to work in close proximity to moving equipment. The utilities sector has one of the widest range of applications of all activities including the use of specialist mobile plant.

Proximity Warning & Personnel Protection

What is SiteZone?

The SiteZone Proximity Warning System (PWS) is an audible and visual warning system designed to reduce the risk of vehicle-personnel collisions and can be used anywhere the proximity of people and vehicles working together is of concern.

- » Total warning solution
- » Fully configurable to meet application requirements
- » Full data logging capabilities including cloud based analytics



How does SiteZone work?

SiteZone PWS produces a detection zone around a vehicle, machine or even a restricted area.

When the detection zone is breached by personnel wearing a SiteZone transponder the machine operator is alerted to their presence and can take the appropriate action. The main function of SiteZone is to warn the machine operator to the presence of tag wearing personnel as he is the only person that can stop the machine. To provide an additional tier of protection there are optional warnings for pedestrians.

1 SiteZone Base Station
Our base station generates an RF zone or bubble around the vehicle. The size of this bubble can be varied to meet site requirements.

2 Operator Display Unit (ODU)
The ODU performs a range of functions including alerting the machine operator to zone breaches and controlling authorised approaches.

3 Personal Transponders
SiteZone Transponders are designed to be an integral part of personnel's PPE. SiteZone transponders are available in a range of options including a helmet mount vibrating version.

4 External Alarm
The external alarm alerts any tag wearing personnel breaching a safety zone that they have done so allowing them to retreat to a safer location. It also alerts others to the fact there has been an exclusion zone breach.

5 OverSite Telematics
The Oversight system takes the SiteZone proximity warning system from a site based safety aide to a proactive safety management tool.

Vehicle - Pedestrian Safety Tool Box

Safe Site

- » Segregation of people, vehicles and mobile plant wherever possible
- » Enforced speed limits and traffic management plans
- » Appropriate warning signs

Safe Vehicles

- » Good all round vision and visibility aids
- » Regularly examined and maintained
- » Proximity Warning Systems

Safe Pedestrians

- » Appropriate PPE including high visibility clothing
- » Individually identified proximity warning tags
- » Training instruction and supervision
- » Enforcement of procedures and site rules

SiteZone

Simple cost effective protection



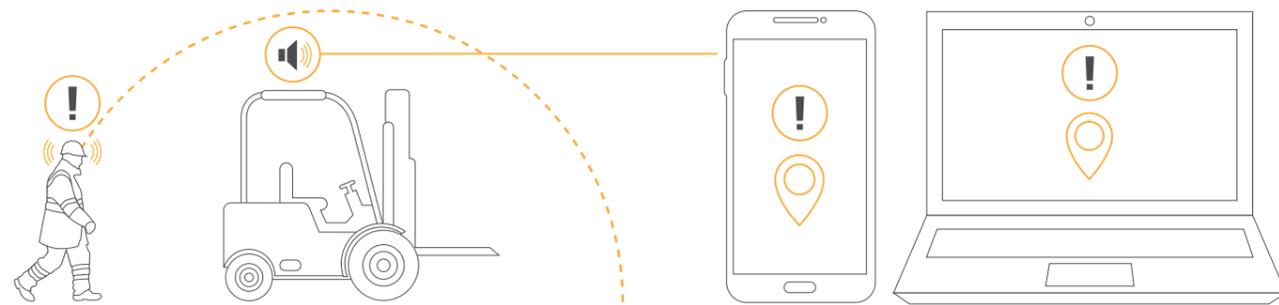
OverSite Telematics

What is OverSite Telematics

The SiteZone proximity warning system has proven to be an effective tool in helping reduce the risk of vehicle – personnel collisions.

The OverSite telematics solutions takes SiteZone PWS to a new level by allowing customers to monitor the interaction between personnel and mobile plant.

SiteZone PWS has always had a data logging function, but the OverSite telematics package offers easy access to this data via a range of reporting options or live data feed if required.



Above SiteZone can be used across multiple devices.

Key features of OverSite

- » Live Track Snail Trail allows the user to review plant activity live (and historically) on google maps overlay, includes location, tag id with time and date stamp, also maps vehicle journey for selected time period
- » Multiple Report Options
- » Automatic Alerts if via email or SMS required
- » Geo Fencing and Point of Interest options
- » Can be used for vehicle tracking
- » Installed or retrofitted to existing SiteZone system in minutes



Above Identify particularly hazardous areas within your site.

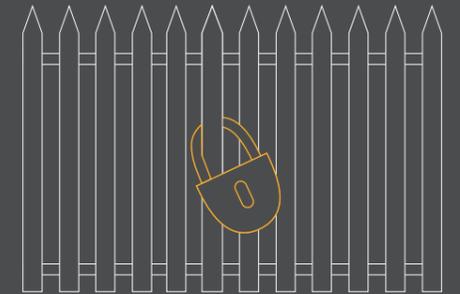
Key Benefits of Using OverSite

- » Monitor interactions between mobile plant and personnel
- » Identify those at greater risk and make positive interventions
- » Monitor behavioural change and effectiveness of safe systems of work
- » Identify personnel training needs
- » Identify "problem" areas on site
- » Track assets

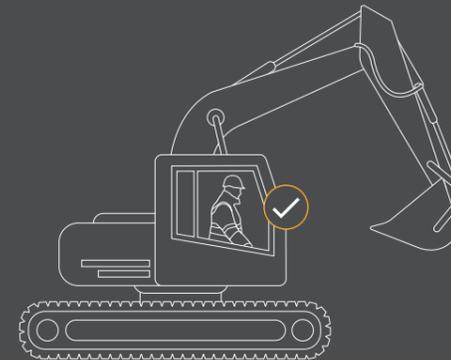
Application areas



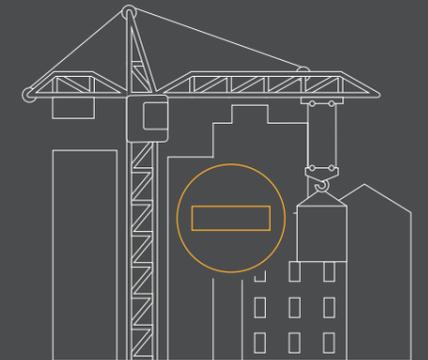
Proximity Warning



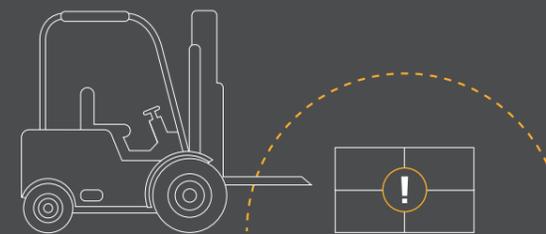
Access Control



Authorised Driver



Exclusion Zone



Critical Asset Detection



Safety Management

Creating a safer workplace

SiteZone iNstant

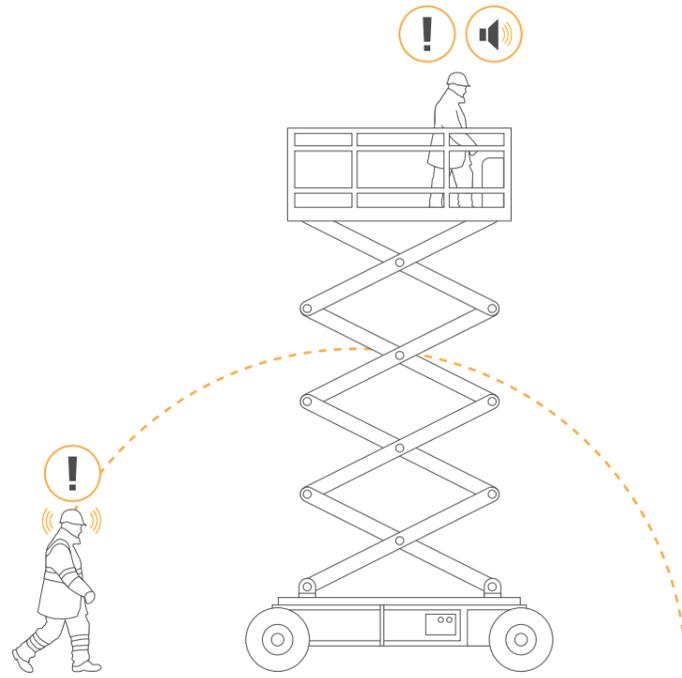
What is SiteZone iNstant?

A wireless proximity warning solution for easy, instant fit. No installation downtime, ideal for site transient vehicles or those on very short term hire and vehicles such as MEWPS.

Create an instant exclusion zone around the "difficult to see" areas of a vehicle :



Above SiteZone iNstant battery base station



Above iNstant remote display (iRD)

Key features of SiteZone iNstant

- » Portable solution for providing an instant exclusion zone solution to any vehicle
- » Battery powered
- » Battery Base Station – 24hrs¹
- » Remote Display 24hrs¹
- » Compatible with all SiteZone Standard, Easy Fit and Transponder products
- » Zone range² adjustable from 2m – 10m
- » Independent audible and visual warning of zone breaches from battery base unit and iNstant Remote Display (iRD)

Suitable for

- » Short term installations
- » Delivery vehicles
- » MEWPS
- » Static exclusion zones

Key Benefits of Using OverSite

- » Zero installation downtime
- » No cabling
- » Optional remote display (iRD)

¹ Correct at time of publication

² Requires SiteZone interface and software

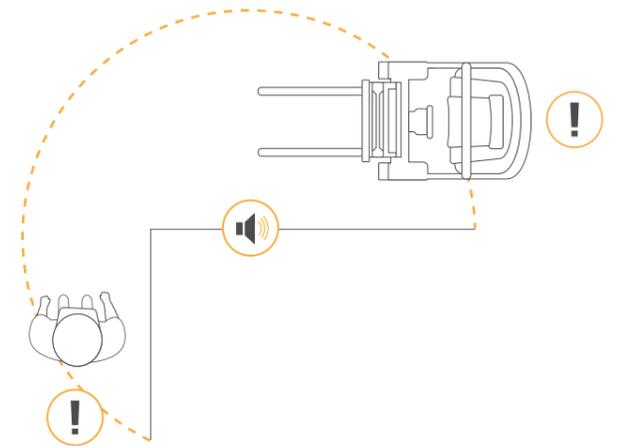
Creating a safer workplace

Crossing Zone

What is Crossing Zone?

Although most applications involve SiteZone being fitted to vehicles and pedestrians wearing tags this may not always represent the best solution to some client's needs. This may especially be the case in some environments where vehicle – personnel segregation is already in place and clients are mainly concerned about site crossing points, or areas where pedestrians and vehicles will occasionally interact.

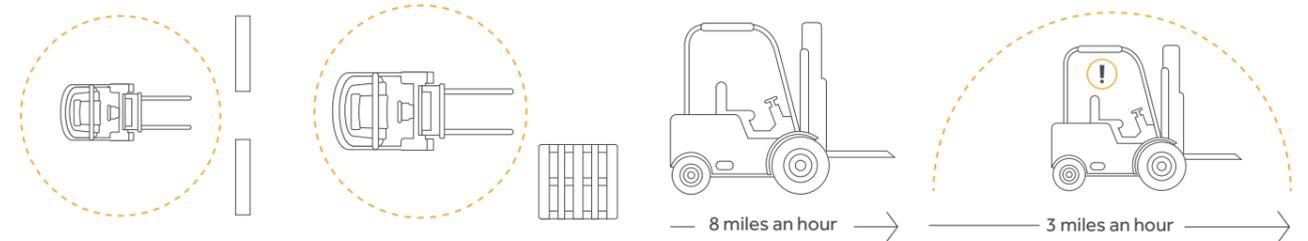
In using the SiteZone iNstant, individual points of detection can be set up providing local audible and visual warning should a truck be present at a point of concern. Trucks are fitted with specially adapted tags and the base stations are mounted in appropriate static locations. When the truck nears the location an alarm will activate warning any pedestrians in the vicinity that a truck is nearby.



Additional FLT Functions

Integration into Machine Functions

SiteZone has always had the capability of being integrated into machine functions such as deadman's handles or the handbrake. Although it is not commonplace in most applications, it can be very important in the Warehouse and Logistics market.



Zone Control

- » Change the size of the detection zone. This can be useful when a vehicle goes from an outdoors environment where a larger zone is required to an indoors environment where a smaller zone may be necessary. The speed of the truck can also be limited depending on environment.

Speed Control

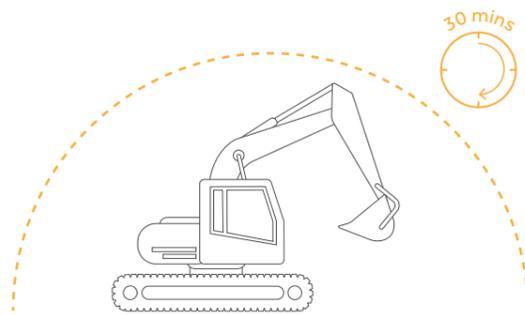
- » Slow the vehicle down on detection of a tag

Key enhancements

How can I enhance SiteZone?

SiteZone EasyFit

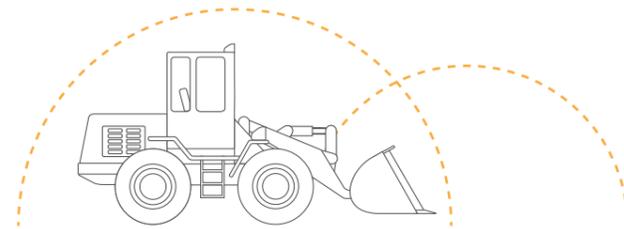
Installed in typically less than 30 minutes the SiteZone EasyFit meets the requirements of the UK building and civil engineering market where most mobile plant is hired as required.



SiteZone PWS is used across a wide range of industries and applications. To ensure it meets these requirements a range of additional options have been developed.

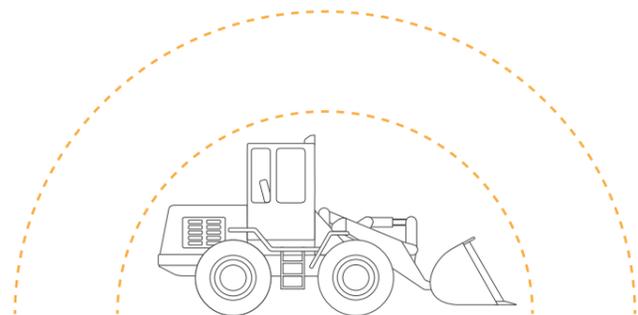
BucketZone

BucketZone allows for the creation of a separate detection zone around the working equipment of the machine. This can make the system more practical in certain applications. Useful for plant such as material handlers and loading shovels.



Zone Selector

Allows two preset ranges to be set on installation. The zone selection is via a supervisor key switch, allowing management controlled zone selection.



SiteZone Limiter

The SiteZone Limiter produces a "null zone" which "hides" SiteZone tag wearers from detection by SiteZone systems. This is useful when personnel are less vulnerable such as when they are travelling in vehicles or in areas segregated from moving plant.



SiteZone product family

Product	Typical Use	Machine Types	Available Options
Single Antenna	Fixed Installation, widely used in waste management, construction, ports and logistics	Machines with cabs up to 50 tonnes	BucketZone, Zone Selector, Machine Function Integration, Banksman Alert, OverSite Telematics
Single Antenna EasyFit	Temporary installations and hire machines, very widely used in construction	Machines with cabs up to 50 tonnes	BucketZone, Zone Selector, Banksman Alert OverSite Telematics, Powerpack
SiteZone Dual Antenna	Waste Management and Construction	Very large machines and longer plant such as articulated dump trucks	Zone Selector, Machine Function Integration, OverSite Telematics
SiteZone Mini	Widely used in construction	Smaller machines without cabs such as rollers and mini excavators	OverSite Telematics
SiteZone Dumper Advance	Construction	Specifically designed for forward tipping dumpers	OverSite Telematics
SiteZone FLT	Warehouse and Logistics, Waste Management	Designed for use on forklift trucks and similar vehicles such as reach stackers	OverSite Telematics
SiteZone BucketGuard	Utilities	Mini excavators for monitoring of working equipment only	OverSite Telematics
SiteZone iNstant	When immediate deployment is required, where cabling is not possible or short term use. Creation of static zones (off machine) and crossing points	Most site vehicles on short term basis, delivery vehicles, MEWPS	Available with or without remote display



We're passionate about Workplace Safety

We know that the SiteZone proximity warning system is only part of the solution to workplace transport accidents. Another key factor is behavioural change, that's why we've developed the Don't Burst the Bubble campaign. The DON'T BURST THE BUBBLE campaign is a simple visual reminder to workers about the need to stay safe when working around mobile plant.

UK Service & Support

We've Got it Covered

Choosing to invest in any product is a big decision and no matter what the specification and how good it looks on paper that product will only be as good as the service and support that comes with it.

That is why at OnGrade we treat service and support as an extension of our products, and why we have built a national service and support network.

As well as offering our own independent service network, we are able to provide even wider coverage through using our established partnership with ESS Safeforce with their 17 branched locations and dedicated proximity warning personnel.

Our commitment to you ensures

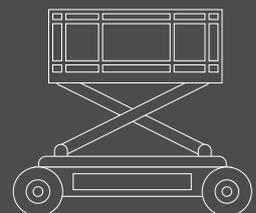
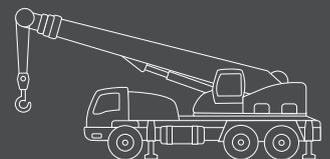
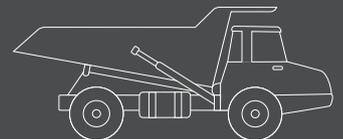
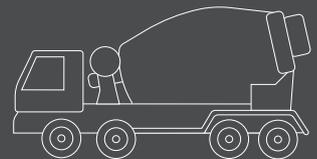
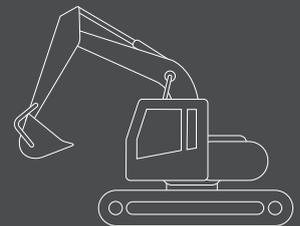
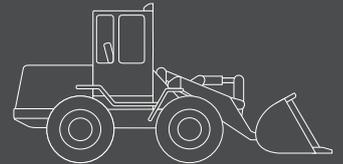
- » Full installation service
- » Rapid delivery of hire product
- » Local Support
- » Service level agreements available

Key

- ESS branches
- SiteZone engineers
- » Head Office



SiteZone fits any vehicle



»»» Site Zone Safety

SiteZone Safety is a trading name of Ongrade Limited

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ESS Safeforce

Dedicated to your Safety

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BURST
THE
BUBBLE™**