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GreenZone - reducing pollution where it really matters

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Answers for mobility.

Improving air quality and traffic congestion with a low emission zone from Siemens



Siemens GreenZone is a breath of fresh air for today's busy towns and cities. It's a fully hosted and proven traffic pollution management solution that provides town and city leaders and traffic managers with a valuable and highly cost effective tool to address pollution levels and deliver real society benefits.

With GreenZone, the answer to urban pollution is just a breath away.

How GreenZone works - the technology
GreenZone is a modular, innovative, highly secure, efficient and effective solution that is already helping to address city air quality problems.

EU and Kyoto clean air directives leave no room for complacency. Cities account for over 80% of CO2 emissions worldwide and particulate matter, a major air pollutant from vehicle emissions, which leads to an estimated 348,000 premature deaths annually in Europe. Society's growing and justifiable concerns about noise and pollution through high emission vehicles and traffic congestion need to be addressed as a matter of urgency and national governments as well as cities and towns, can be given heavy financial penalties by the European Court of Justice if they are not seen to improve air quality.

GreenZone is highly scalable, allowing a cost effective low emission zone to be implemented on a single entry point within a small rural village up to a low emission zone covering an entire city.

GreenZone requires no IT infrastructure to be hosted or purchased by the customer, as Siemens host and operates the solution. Visually unobtrusive roadside equipment provides the vehicle and air quality monitoring data and communicates via highly secure and encrypted techniques to the hosted enforcement and back-office system. With GreenZone, Siemens also provides easy to use customer web portals to allow customer access to key performance data on your low emission zone. We also provide customer contact centre service as part of the GreenZone solution.

GreenZone is a flexible, automatically enforced low emission zone solution that uses best in class ANPR technology to interrogate vehicle databases and monitor and control the passage of highly polluting vehicles through designated geographic areas.

Its cloud-based IT infrastructure means it is quick and inexpensive to implement and even easier to maintain. And with Siemens proven equipment and service delivery, we guarantee round the clock, national coverage, with dedicated support and full training.



GreenZone's Sicore advanced ANPR cameras are robust, compact and unobtrusive.



How GreenZone works in practice

Town and city traffic managers and planners determine the routes and zones where pollution management will be required and the class of vehicles they would initially like to exclude.

Working in consultation with the customer, Siemens will install signage, unobtrusive Sicore ANPR cameras and air quality measuring equipment, where possible using existing street furniture. The roadside equipment communicates directly with the Siemens cloud based IT infrastructure avoiding unnecessary cabling and civils works.

As part of the GreenZone service, Siemens offers historical, real time and predictive data for traffic and pollution, helping decision makers implement the most appropriate air quality strategy.

Siemens GreenZone can be integrated to existing customer back-office billing solutions. Alternatively Siemens can provide a proven back-office solution. Penalties for infringement are fully flexible and can be determined on a day-to-day basis, by time and by class of vehicle.

Siemens will be on hand to provide advice and subsequent system alterations to ensure your GreenZone solution continues to satisfy your service requirements and effectively reduces pollution.

The benefits of Siemens GreenZone hosted solution

- No client IT infrastructure required
- Offers tangible society benefits to balance against costs
- Low cost implementation and annual subscription
- Highly scalable
- Redundancy offered as standard
- Very low incidence of offender evasion
- Can be installed using existing street furniture
- High quality Siemens service level agreements
- Europe-wide coverage and support
- Can be provided as a complete service offering

In addition to hosting the system, Siemens can offer innovative funding solutions to ease the cost of the deployment. These rental packages cover all equipment and implementation costs and ongoing maintenance.

GreenZone's hosted IT infrastructure and ease of implementation make it a rapid and cost-effective solution for addressing rising pollution levels.

Siemens fully qualified team of highway and system design engineers will help you evaluate suitable locations and design all aspects of your GreenZone deployment.