SWARCO

swarco

The Better Way. Every Day.

01
INTRODUCTION

SWARCO have been supplying prismatic FTMS VMS signs worldwide for many years with the technology pre dating LED signs. The display technology is still relevant today and can still be an appropriate choice of VMS particularly suited to certain applications.

MORE OPTIONS

Variable Message Signs are able to display multiple messages, giving you the flexibility to communicate what you need at the right times

SCALABILITY

From a single sign to a connected network across a city or highways network.
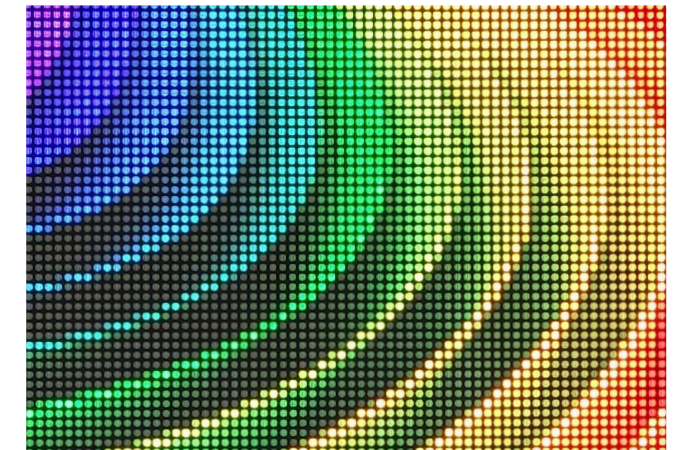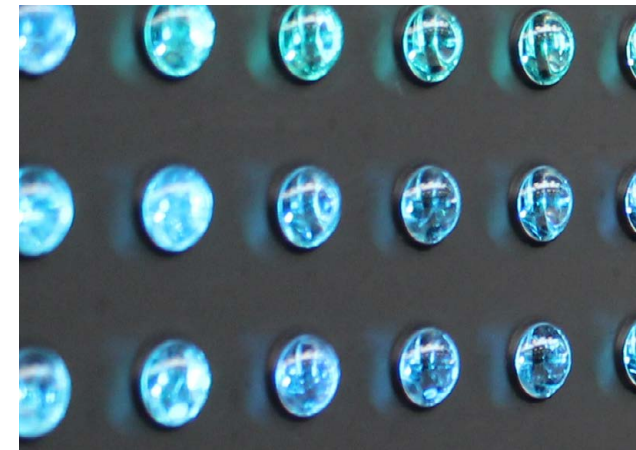
EFFICIENCY

Energy efficient and Low power due to our patented lens design. They are particularly suited to off grid operation..

VARIABLE MESSAGE SIGN FUNCTIONALITY AND BENEFITS

- Full colour display, able to display any text, graphic or image offering ultimate message flexibility and future proofing
- Fully scaleable modular construction ensuring the most suitable sized display can be supplied for particular requirements; from internal car park signs to motorway applications
- Can display pictures, text or graphics, 64 million colours
- CE Certified to EN12966, EN12899, TOPAS registered to 2516
- Patented lens design which optimises efficiency through

- light distribution
- Pixel pitch to suit road speed and resolution requirements
- SWARCO's cloud-based control system, MyCity allows you to create messages for full colour signs, access vital statistics, view full data reports and set car park special days and opening times
- Fully flexible UTMC compliant IP based communication including 2/3/4G, Mesh, fibre, wi-fi and ADSL
- Ability to be fully integrated with UTMC systems

02 FULL RANGE

FULL COLOUR VMS FROM SWARCO PROVIDE ULTIMATE MESSAGE FLEXIBILITY AND FUTURE PROOFING; A VERSATILE PLATFORM FOR DELIVERING MESSAGES TO DRIVERS. THEY CAN BE USED FOR TRAFFIC INFORMATION, PARKING GUIDANCE, USED ON MOTORWAYS AND IN A RETAIL ENVIRONMENT.

PARKING GUIDANCE

Choose from the simple yet effective module LED signs or opt for full colour to demonstrate a number of messages

- Guides the traveller to the nearest spaces, improving the user experience
- Reduces congestion by reducing the search for free spaces
- Display technology is fully scalable from simple single colour display through to full matrix display providing the ultimate

- solution for message flexibility and impact
- Option to integrate car park count equipment within signs which can reduce the requirement for separate cabinets
- Fully flexible designs, we will create a design especially for your project

INFORMATION AND WARNING VMS

Set real-time messages to display traffic information or warnings such as adverse weather conditions or stopped traffic ahead.

- Variety of options from text only to full colour displays, full message flexibility and future proofing
- Able to set real time messages; react in real time to the road conditions
- Keep drivers informed, improving their user experience on your roads
- Timetable messages ahead of time

- Key uses of this product include
- - Motorway Applications
- - Urban Traffic Guidance and Information
- - Lane Control
- - Advise of upcoming events
- - Warn of adverse weather conditions
- - Offer diversion routes during peak periods

03
UNLIMITED FLEXIBILITY

SWARCO'S VARIABLE MESSAGE SIGNS MAKE THE TRAVEL EXPERIENCE SAFER, QUICKER AND MORE CONVENIENT.

04

A SMART WAY TO DISPLAY MESSAGES

SMART MESSENGER TRAILER VMS

All the technology of a SWARCO full colour VMS but moveable. Ideal for advising of upcoming events or traffic information. The Smart Messenger collection can also be used in conjunction with radar detection for speed warning and recording vehicle speeds.

- Full colour RGB Matrix Sign, able to display graphics, text or images
- Available with fuel cell technology, allowing for season round unattended operation
- Alternatively opt for battery only for up to 7 days battery life
- Capable of displaying 4x15 characters of text as well as alternative character sizes
- ITS upgrades available including radar speed detector
- Exceeds all Highways standards including CE Certification to EN12966, L3, R3, B6, T1
- Detachable towing bar
- Powered height adjustment and 360° sign rotation
- Telescopic jacks for levelling
- Small footprint, ideal for cities and towns
- Unbraked trailer as weight is less than 750 Kgs
- Sign can be controlled from UTMC System
- Can also be managed using SWARCO's Zephyr
- 2G/3G/4G Communications

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SIGNS WITH PRECISION

USE PRISM SIGNS AS AN ALTERNATIVE TO LED VARIABLE MESSAGE SIGNS FOR PRESET MESSAGES. VARIABLE MESSAGE SIGNS MAKE THE TRAVEL EXPERIENCE SAFER, QUICKER AND MORE CONVENIENT.

PRISM SIGNS

Designed and engineered to provide an alternative to LED Variable Message signs, Prism signs are an ideal solution if you require a limited number of messages. Ideal for use in part time pedestrian zones or where a frequent diversion may need to be implemented.

- Prism signs can display 3 messages per drive and signs can be made up of multiple drives.
- Choice of 100mm or 200mm prism sections
- Precise prism alignment to display a clear message
- Locks in place to protect from extreme weather conditions
- Sinusoidal drive feature maximizes sign life
- Optional temperature controlled deicing cycle
- UTMC Compliant
- TR2095 Compliant

- Remotely monitor sign status including current message display, communications and power usage
- Local control override for maintenance
- Manual control override available in the event of power failure
- Displays messages even in the event of a communication or power failure
- Low power consumption means solar is a convenient option

Encourage safer driving with a range of speed warning signs including speed limit reminder signs and speed indication signs.

SPEED WARNING SIGNS

Speed Limit Warning

As drivers enter a built up residential area, or where there are adverse risks to road users, our speed warning signs can be used to display a warning message to drivers advising them to slow down.

- To drivers exceeding the speed limit signs can warn them to slow down and display the speed limit
- As well as signs to reinforce the speed limit, SWARCO also offers Speed Indication signs that display the speed of the approaching vehicle making drivers as well as all other road users aware of the vehicles speed
- A variety of power solutions are available with SWARCO's patented low power LED system; choose from solar, mains or switched mains
- Automatic Dimming to ambient light levels
- Also available as moveable, battery powered signs (MVAS)

Complete Solutions

- All built in to a single enclosure, even with a solar solution, there are no external battery boxes, ensuring all components are situated in a single water resistant enclosure
- Use a number of these signs across a neighbourhood or borough to improve speed awareness across the area and use the data logging to analyse local traffic trends such as volume and speeds to detect for speeding issues or understand peaks and troughs in traffic flow
- Remote data logging available using the MyCity solution
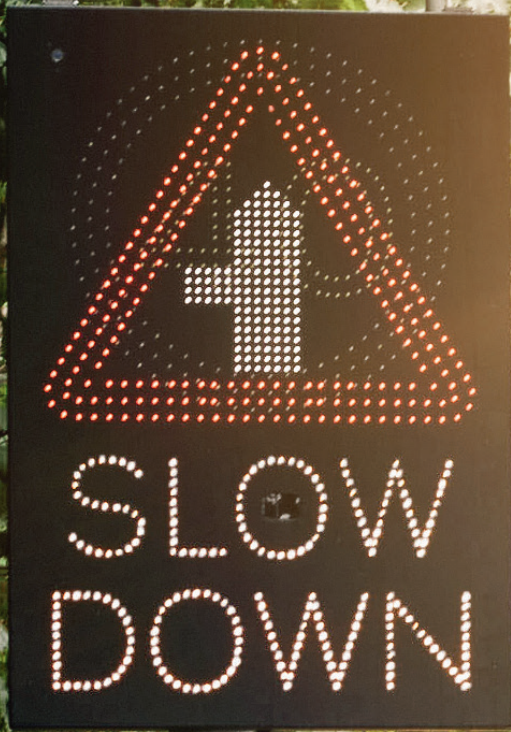
Benefits

- Improving road safety and speed awareness
- With a 15 year design life, these are a reliable option
- All standard VAS are TSRGD Compliant, however we also provide bespoke solutions
- Made at our UK production site
- Free warranty as standard, maintenance agreements and extended warranties are also available

Certification and Approvals

- CE Certified to EN12966
- TOPAS 2516 approved on TSRGD designed signs
- Designed and manufactured in the UK

SPEED WARNING SIGNS

PREVENT INCIDENTS IN REAL TIME

Intercept the hazards before they occur. Hazard Warning signs can be used at dangerous junctions or roads that are susceptible to adverse weather conditions.

HAZARD WARNING SIGNS

- Give warning to motorists of hazards ahead or of dangerous road conditions
- Activation can be from a multitude of inputs; including queue or junction detection, weather monitoring or from a central management system. These are capable of interfacing to UTMC central systems too, we have a full solution to suit your needs

Complete Solutions
- Tackle particularly dangerous junctions with our complete warning solutions bespoke to your project requirements
- Receive live information from your sign including the number of activations and a full fault or error report to ensure safety

critical signs are always in optimum condition. All of which can be accessed remotely using the MyCity solution
- SWARCO can also provide complete solutions for road areas prone to extreme weather. Our flood warning system enables you to monitor flood levels at all times and activate warning signs automatically

Certification and Approvals
- CE Certified to EN12966
- TOPAS Highways Agency registered
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered location
- Manufactured in our UK production plant

School sites are a unique environment where safety is paramount.

With a range of options to choose from, allow us to make your school sites safer.

SCHOOL WARNING SYSTEMS

Functionality

- Timetable your signs to fit with local school hours and term times
- With a low power consumption, renewable power sources such as solar are a suitable solution
- A variety of options available including Vehicle Activated Signs featuring the school crossing triangle warning symbol

Benefits

- With Profectus you can remotely enter up to 255 seperate timetables up to three years in advance, reducing the need for engineer site visits

- School warning signs can introduce variable speed limits, reducing speed around schools at peak times
- Ensure safety of vulnerable road users and make approaching vehicles aware of the potential hazard

Certification and Approvals

- CE Certified to EN12966
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered environment
- Designed and manufactured in the UK

SCHOOL WARNING SIGNS

OVERHEIGHT VEHICLE DETECTION

Prevent bridge strikes and allow drivers to safely navigate around low bridges and tunnels.

DETECTION OF OVERHEIGHT VEHICLES

Functionality

- A variety of detection methods available
- TSRGD Compliant fixed messages available
- Also available in full colour RGB VMS to display any message or graphic required
- Ideal for use in locations with low bridges, restricted access due to height or tunnels
- Use the signage to not only warn drivers but to divert them to an alternative route

Complete Solutions

- Remote monitoring from MyCity and data logging is also available, statistical feedback is always available recording the number of activations, sign status and power status as well as a full error reporting system

- Host multiple signs on a single remote monitoring system giving you, an overview at the click of a button

Benefits

- Reduce the number of bridge strikes and the knock on effects on the traveller
- Ensure safety of all road users with this dynamic warning
- Use the data for analysis to register the number of activations and driver behaviours

Certification and Approvals

- CE Certified to EN12966
- TOPAS 2515 approved
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered location

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SWARCO MYCITY

This continuously growing platform allows you to work from a single sign-on system, with various user rights and lets you add new features at any time. Start small and add required functionalities when needed to improve your city traffic flow and safety. Reduce service costs and manage your city in the better way.

MyCity is an open platform that can be extended to your city's individual needs. A city can start small with an "as a Service" business model and add required functionalities when needed. Various legacy systems, data sources and information systems can be easily integrated. For the larger cities we offer full blown tailormade on-prem solutions where various sources of data are integrated to determine the current and future traffic situation and determine an optimisation strategy.

Integrate your roadside equipment to get remote monitoring of live data, set sign messages, timetables and receive statistics & reports.

BENEFITS

IMPROVE TRAFFIC SAFETY
Improve traffic safety by using surveillance and well-functioning equipment

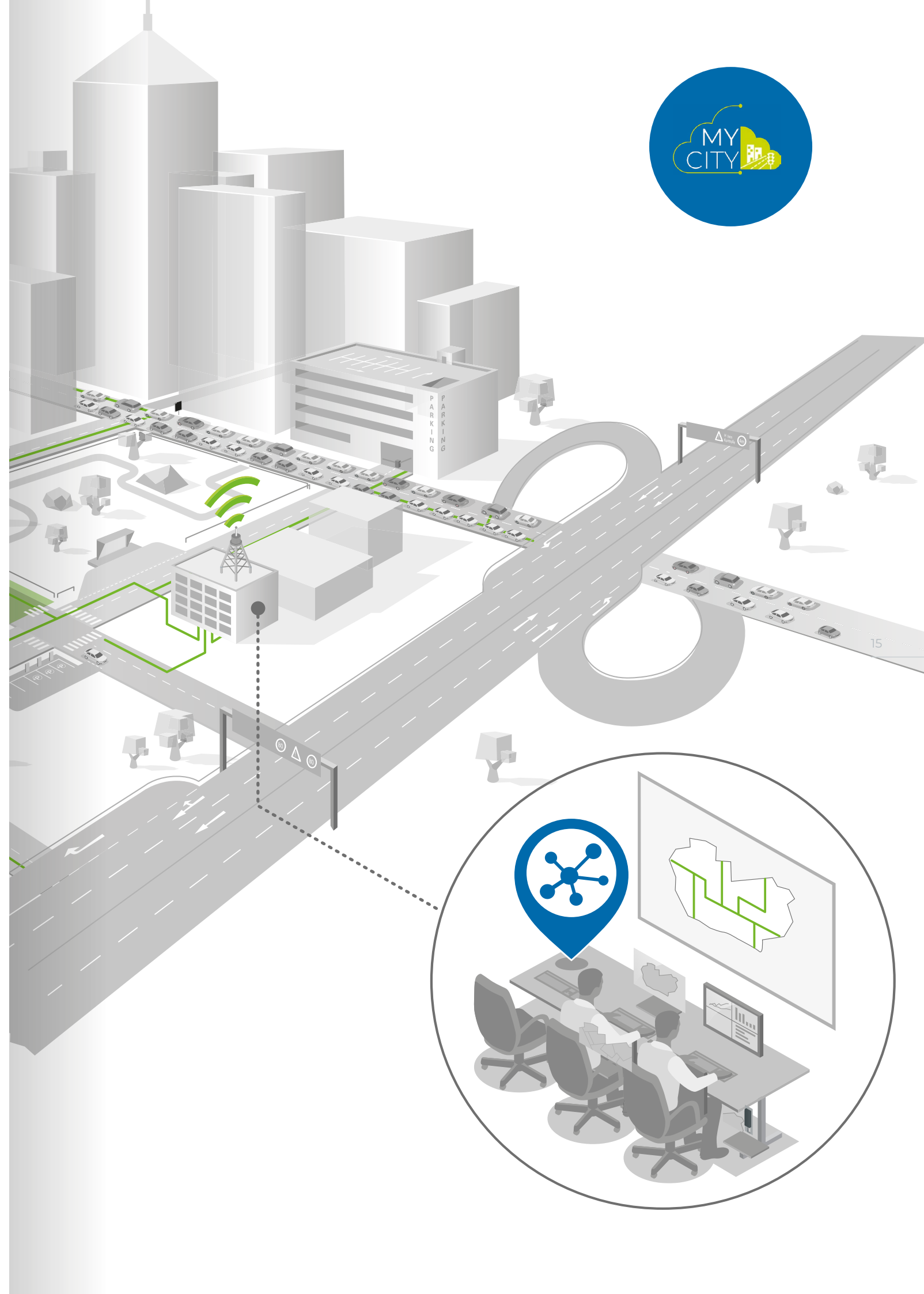**IMPROVE TRAFFIC INFORMATION & CREATE A SMOOTHER TRAFFIC FLOW**
Plan and evaluate your traffic and make decisions based on facts rather than theories

REDUCE CONGESTION & POLLUTION
Meet your city's environmental goals by reducing traffic congestion and prioritising cyclists and pedestrians.

MAKE BEST USE OF EXISTING INFRASTRUCTURE
Modern planning tools and cloudbased solutions create the possibility to improve existing infrastructure instead of building more roads, reducing your costs.

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MY CITY

SWARCO
PTC1 **CONTROLLER**

OVERVIEW

Today's growing infrastructure continues to place high demands on budgets and technology. In addition to supporting the management of congestion and the need for effective journey time reliability, meeting environmental targets remains a core requirement. Getting the most out of traffic control equipment has become imperative and being able to do this whilst catering for the complexities of modern junctions is challenging. The PTC1® family of controllers delivers the solution to these requirements and more.

PROVEN TECHNOLOGY.
The established PTC1 offers a robust and reliable solution to the growing demands of modern junctions and pedestrian facilities. The original PTC1 offers efficient control for larger junctions, whilst the smaller PTC1 Lite has been developed to run small junctions and pedestrian crossings. The PTC1 will drive and monitor both 230V Halogen aspects, in addition to 48V & 230V LED energy efficient aspects; the PTC1 family of controllers is therefore truly adaptable and able to deliver in any given situation.

EASY TO USE.
The ability to obtain information from on-street equipment is critical to the smooth running of any road network.

Integral to the PTC-1 controllers is a suite of Windows™ application tools providing facilities for configuration, simulation and communication.

Simplifying a historically complicated process, the application tools enable the configuration of a junction graphically and the simulation of its operation, including the detectors, with real traffic data. Access to the controller to modify site data or for maintenance purposes is also simple for any user; either via a web browser (e.g. Internet Explorer) or through a terminal emulator (e.g. HyperTerminal) using the familiar TRX handset commands.

The web browser and site mimic graphics provide a comprehensive display allowing data to be changed remotely, including detector function, without the need to turn off the site.

As junctions become more complex and traffic demands grow, the need for effective communications between Urban Traffic Control (UTC) systems, on-site engineers and on-street equipment continues to be a key requirement for efficient traffic management. The PTC-1 family of controllers provides Internet Protocol (IP) communications as standard to enable and support the use of the latest in low cost communications technology. The addition of UG405 operation enables the PTC-1 IP family of controllers to be connected directly to a roadside Ethernet connection without the need for a Chameleon or 3rd party UG405 compliant outstation unit.

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THE BETTER WAY.
EVERY DAY.

SWARCO's leading idea is to improve quality of life by making the travel experience safer, quicker, more convenient and environmentally sound.

With more than five decades of experience in the industry, the Austrian traffic technology corporation produces and provides a large range of products, systems, services, and turnkey solutions for road marking, urban and interurban traffic management, parking, and public transport. Cooperative systems, infrastructure-to-vehicle communication, e-mobility, and integrated software solutions for the Livable City complement the group's future-oriented portfolio.

More than 5500 traffic experts are keen to shape together with all stakeholders in the traffic industry the transition from conventional traffic management to value-added services fit for the traveler in the digital age.

SWARCO's products, systems and solutions contribute to greater road safety and intelligent traffic management in 80 countries and generate revenues of almost 1.2 billion euros.

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