

SWARCO AIR QUALITY MANAGEMENT SOLUTIONS



The Better Way. Every Day.



Challenges

Every day, millions of particulates are being released into our air. If inhaled regularly or if harmful levels build up then this cause harm to our health.

The quality of our air is often forgotten about but poor air quality is becoming a recognised issue in many of our cities. It is now a priority for our industry to look at how we can improve the quality of our air using traffic management solutions.

One of the main contributing factors to poor air quality in cities is petrol and diesel vehicle emissions. Levels can become particularly harmful at peak times, when congestion is also at its highest.

Particulates from vehicles include...

**Particulate
Matter
(PM)**

**Ozone
(O₃)**

**Nitrogen
Dioxide
(NO₂)**

**Sulfur
Dioxide
(SO₂)**

THE LAST MILE CHALLENGE



The last mile challenge refers to the issue within a city's infrastructure where not everyone can live or work within walking distance of a public transport system. Unfortunately, more roads or train stations can't be built to resolve this issue. This could be beyond economic reality or create other undesirable issues.

The distance between home or work and public transport discourages many commuters who instead choose to travel by car. By doing so, exacerbate the problems within urban areas and cities regarding traffic congestion, parking problems and emissions. By investing in micro mobility we can encourage the use of multi-modal transport to reduce vehicle emissions.

Benefits

The benefits of cleaning up our air and maintaining good air quality using traffic management systems.



Improving the health and wellbeing of our citizens.

Idling cars release enough harmful fumes in one minute to fill 150 balloons with gases including Cyanide, NO² & particulates.



Reducing traffic improves the traveller experience and can stimulate economic growth.

It is estimated that congestion cost the UK economy almost £8 billion in 2018



Helping to tackle climate change.

One study suggested if commuters within a 30 minute cycle ride of Stockholm switched to bicycle, there would be 110,000 more cyclists on the roads and 449 years of collective life expectancy could be gained annually.



Improves congestion and allows for free traffic flow, creating a safer and convenient traveller experience.

Measures such as bus priority reduce waiting times by up to 33% at intersections.

Green lights for cyclists encourage bicycle uptake and improve safety.

Solutions

Route Guidance

Divert vehicles away from identified problem areas using pollution monitoring systems. This can be especially effective during peak commuting time when pollution and congestion is at its highest.

By re-routing traffic, journeys can not only be made quicker, but they can also be made safer. You can re-route drivers using Variable Message Signs with up to date information on routes available.



Multi-modal transport solutions & transport priority

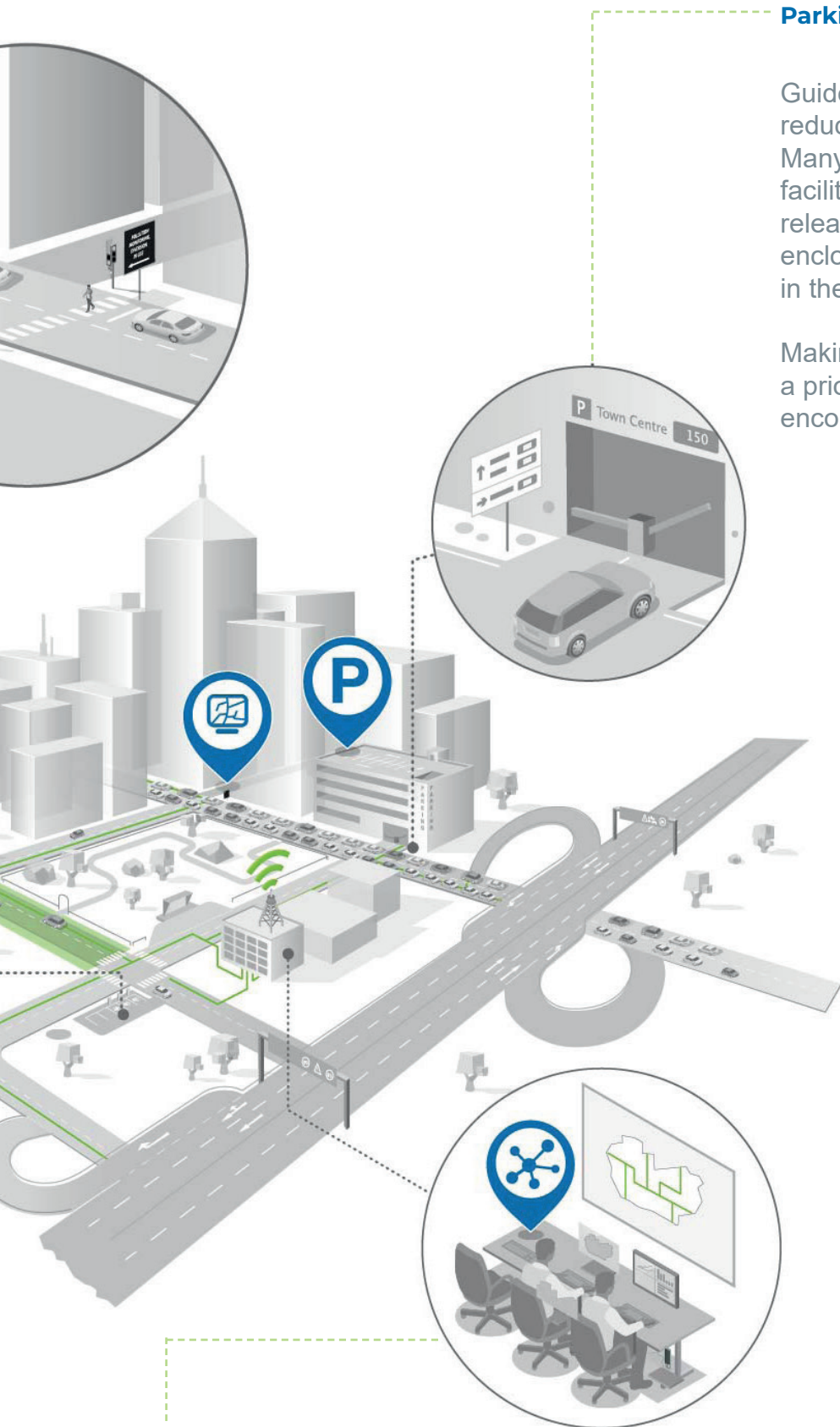
Encouraging the use of public transport or alternative transport methods. Some facilities encourage the use of multi-modal transport which can solve 'the last mile challenge' and reduce the number of vehicles on the road whilst encourage 'clean' transport such as cycling or walking.



eMobility Solutions

The provision of electric vehicle infrastructure encourages the use of electric vehicles which reduces the amount of pollution being released into our air.

Many EU countries are expected to ban fossil fuel based vehicles by 2030, so planning for this is essential for any urban area.



Parking Guidance

Guide drivers to the nearest spaces reducing congestion on the roads. Many vehicles looking for parking facilities result in vehicle idling which releases harmful fumes into an enclosed space, harming pedestrians in the area.

Making parking for electric vehicles a priority is also an incentive to encourage users to switch to them.

Cloud-based Solutions

Put your strategy into action, monitor and manage with one simple system for your city. A cloud-based solution allows you to monitor air quality, parking availability, traffic signal timings and so much more.

SWARCO | The Better Way. Every Day.

SWARCO is a growing international group providing the complete range of products, systems, services and solutions for road safety and intelligent traffic management.

With five decades of experience in the industry, the corporation supports the growing mobility needs of society with turnkey systems and solutions in road marking, urban and interurban traffic control, parking, public transport, infomobility and street lighting. Cooperative systems, I2V communication, electromobility, and integrated software solutions for the Smart City are latest, future-oriented fields in the group's portfolio.

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