

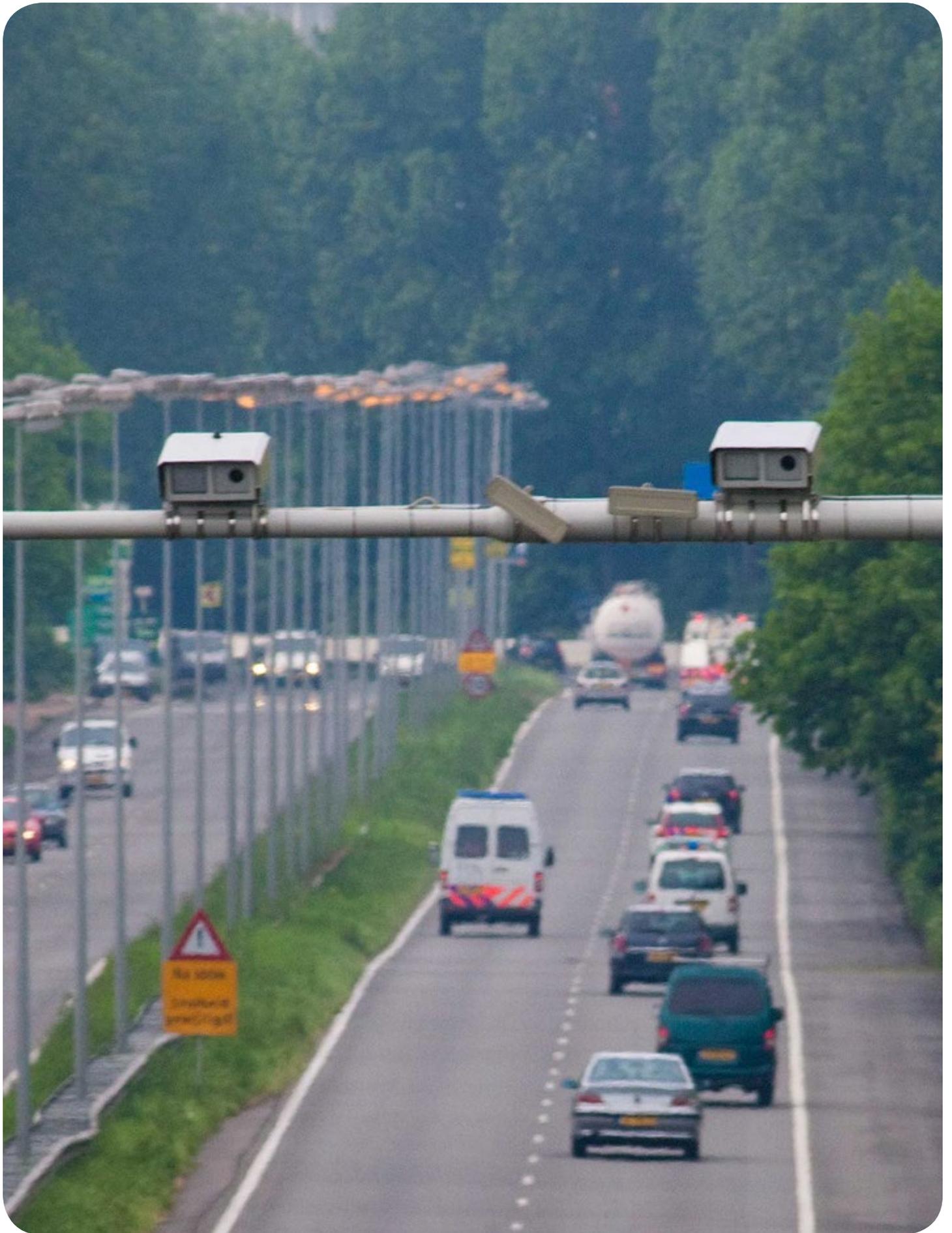


GATSO

LOW EMISSION ZONE

Case study - Amsterdam, the Netherlands





CREATING THE RIGHT ATMOSPHERE

Like many cities, Amsterdam is working hard to meet EU air quality standards. One of the steps taken by Amsterdam City Council was to establish a Low Emission Zone to keep polluting trucks out of the busy city centre. But, enforcing this zone proved to be a challenge — with 38 entry points and up to 1 million vehicles travelling into the zone each day.

How do you accurately check every vehicle, regardless of where it enters the zone, without traffic disruption, with minimal impact on the surrounding environment and without an army of enforcement officers? With GATSO VIA.

ONLY THE BEST WILL DO

There were several issues to be considered. Given the volume of vehicles entering the zone, even a small margin of error would lead to an unacceptable number of fines being wrongly issued. The margin of error had to be as close to zero as possible. To be effective, cameras would have to accurately read the license

plates of 80% of all vehicles entering the zone. Another priority was to have a non-intrusive system that would blend in easily with the surrounding environment and could be fitted without digging up road surfaces. And, the final consideration was budget. Amsterdam City Council was clear: they were looking for the most cost-effective solution.



AN OUTRIGHT WINNER

Impressed by the high levels of accuracy GATSO was able to achieve, Amsterdam City Council was equally pleased when all 53 cameras were installed and operational in under two months, within deadline and budget.

TOUGH ON POLLUTERS, EASY ON THE EYE.

The Low Emission Zone is off limits to all trucks with Euro 1 diesel engines and to Euro 2 and Euro 3 diesel engines without a soot filter. In this program, 53 cameras were used to monitor all traffic entering the zone.

One particular feature of the technology was very important to Amsterdam City Council: the GATSO Loopless Trigger Radar. With this technology, nothing

had to be installed into the road surface so there was no traffic disruption during the installation. Small, discrete radar units were mounted on existing street furniture, which minimised the visual impact. The units blended seamlessly with the surroundings.

The tailored GATSO VIA solution includes maintenance, service and management for 7 years. Using the GATSO XILIUM software, GATSO is able to manage and support the network of cameras and keep Amsterdam City Council fully updated on their status.

The cameras produce digitally signed records, which are fully integrated with the council's own back office system. This makes the process of screening and issuing violations more efficient and ensures that the chain of evidence remains intact.

KEY FEATURES

- GATSO VIA traffic management solution
- Supply and installation of 53 wireless network cameras
- Unobtrusive compact camera units installed on existing street furniture, where possible
- No interference with road surfaces thanks to GATSO Loopless Trigger Radar technology
- Tailor made ANPR software delivers 95% read rate in combination with a 0.02% error rate
- Compatibility with customer back office systems
- Remote camera management using GATSO XILIUM software
- Fully maintained and serviced for 7 years

“ GATSO won the contract because they could deliver exactly the technical solution we were looking for with the best price performance ratio. They were the most cost effective and with a 0.02% margin of error and a 95% read rate they exceeded our demands.”

Herman Algra, Project Manager - Amsterdam Low Emission Zone

THE RESULTS

Before the zone was introduced, almost one third of all trucks in the city centre exceeded emissions limits. Less than two years after the automated enforcement system went operational, 99% of all vehicles entering

the zone are checked, 89% are fully compliant, 9% have obtained a special permit and only 2% receive a fine. As a result, particulate levels have fallen to within EU air quality limits.

“ This is the biggest Low Emission Zone in the Netherlands. To enforce the zone would require large numbers of officers working around the clock both in the field and in the back office. That just isn't feasible. GATSO's system makes top quality enforcement possible at an acceptable price.”

Katja Landman, Administrator - Amsterdam Low Emission Zone

PROJECT PROFILE

Project: Amsterdam Low Emission Zone

Client: Amsterdam City Council

Solution: GATSO VIA traffic management



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