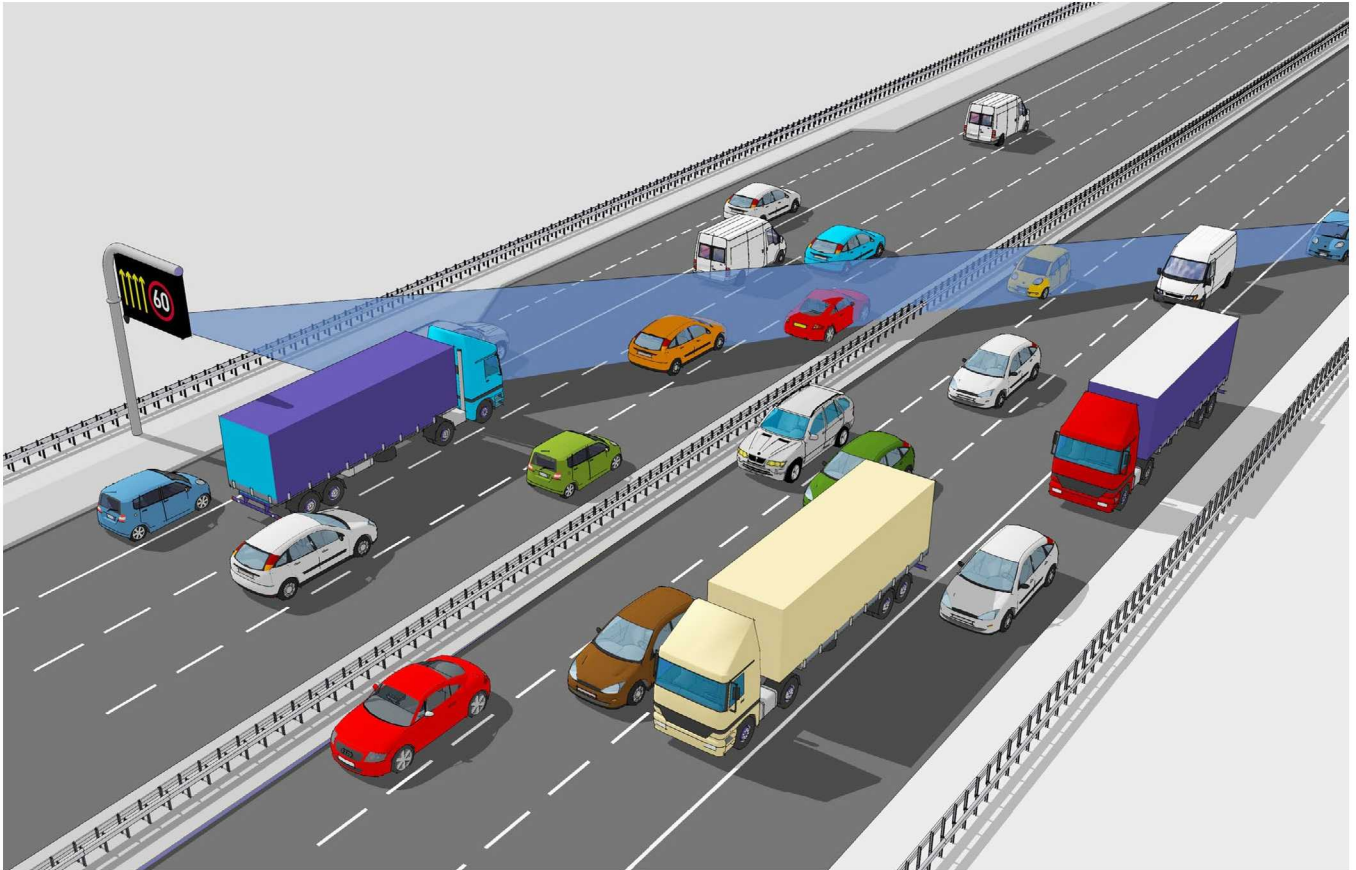


Case Study

Partnerships to bring roads of the future to the world

A new partnership between AGD Systems in the UK, AGD Pty Australasia, and Hyperion Technology – a leading integrator of innovative products, systems and services throughout Australia – is bringing the benefits of above-ground highways monitoring to Australia's roads.



Australia has one of the world's highest rates of motor vehicle ownership per 1,000 inhabitants. Around 51% of households have access to two or more vehicles, and car ownership has grown by about 25% in the past decade. Despite year-on-year improvement, the country still has a high rate of RTA fatalities, and transport authorities are understandably keen to focus on bettering Australia's road safety record.

The 343 Highways Monitoring Radar can be mounted close to the carriageway to provide information for up to ten lanes of traffic

safer, greener, more efficient

Natural progression

With ambitious plans for international growth, AGD Systems – part of The Traffic Group – has strengthened its ITS portfolio to encompass highways monitoring solutions. The new AGD 343 highways monitoring radar is based on AGD’s proven enforcement technology, which is deployed all over the world.

Ian Hind, AGD’s commercial director, explains: “It was a natural progression from enforcement to the monitoring of traffic flow via a radar. The 343 is a highly flexible solution that can be used almost anywhere for better-informed decision-making and optimised traffic flow.”

The 343 has been designed both for UK MIDAS deployments and international highways, where space at the side of the road is often at a premium. It can be mounted as close as 2m from the inner edge of the inside lane and will still provide information for the lane immediately below the radar, as well as the lane at the farthest point of the carriageway, monitoring up to ten lanes of traffic.

Successful partnership

A team from AGD in the UK visited Australia, Thailand and Malaysia in early 2019 to demonstrate the capabilities of the 343 solution to representatives of key government road authorities throughout Australia and South East Asia keen to identify an alternative to invasive road loop systems. “The AGD 343 has had immediate sales along the Eastern Seaboard in a variety of solutions ranging from highway installations to mid-block arterial roads and overlength warning signs,” explains Stuart Douglas, managing director of AGD Systems Pty Ltd.

AGD Australasia partnered with Hyperion Technology Pty Ltd to integrate the solution into the various road authority software operating systems. “Our current focus is on integrating into the SCATS and STREAMS systems, which will allow significant coverage throughout Australia and New Zealand,” explains Stuart.

Hyperion is a leading ITS integrator and is the engineering and construction division of Hi-Vis Group, which has provided ITS products, LED digital signs and machine vision technology for over 50 years. Hi-Vis Group and AGD Australasia have a long history of working in partnership, having recently developed a data management system utilising the Microsoft Azure platform that can provide data access to councils, smart city hubs and government authorities.

“We’re delighted to partner with Hyperion for the rollout of the 343 radar,” continues Stuart. “With AGD’s focus on safer, greener and more efficient solutions and Hyperion’s focus on saving lives through innovative solutions, it’s a natural fit. Hyperion has the expertise to complete software integration along with type approvals with all government jurisdictions, which gives us an end-to-end solution for the implementation of the 343 radar. Our clients will see a cost saving as well as time savings on their projects.”



The AGD 343 Highways Monitoring Radar

Highways



safer, greener, more efficient

Hi-Vis and Hyperion managing director Brett Watson agrees: “It’s great to be working with AGD, and I am really enthusiastic about the opportunities opening up before us with these world-class solutions.”

Blueprint for success

Early trials and project deployments of the 343 have shown that the equipment is versatile as well as being extremely easy and efficient to deploy. “Having installed the radars throughout the Gold Coast, Newcastle, Sydney and Brisbane we have been able to adapt to various site constraints including the height of installation, offset from road, and capture of approaching or receding vehicles,” continues Stuart. “This radar can completely replace invasive loop detectors. The system automatically determines lanes and direction of traffic, and is ideally suited to traffic management sites that have changing conditions which the 343 can detect and report back in real time. The solution has been used in a number of locations utilising solar-based technology and with low data outputs is a viable choice for regional locations.”

“We know from our relationship with our partner Pumatronix in Brazil that having local technical support on the ground in the target country is vital for successful product integration,” says Ian Hind. “We’re also exploring projects in Malaysia with Synergy Saver which will enable us to capitalise on the significant interest shown by highway authorities in the region. Synergy Saver is a highly professional ITS equipment provider and integrator. They are a great asset to help us progress and enhance our ever-strengthening AGD partnership team.”

Traffic & Pedestrian Control



Highways



Enforcement



Tunnel & Track

