SRL | Amey

REMOS Case Study

Amey Traffic Management

Type: REMOS Remote Signal Technology in Staffordshire

Location: London Road, Lichfield

Client: Amey / Staffordshire County Council

Overview

SRL Traffic Systems and Amey are continually exploring innovative solutions that improve safety, enhance efficiency and deliver better outcomes for our clients and the travelling public.

As part of Amey's commitment to driving both safety and reducing their carbon footprint we have commenced the use of REMOS™ (Remotely Operated Signals) on our site at London Road, Lichfield.

The technology supplied by SRL Traffic Systems, represents a significant step forward in how portable traffic signals can be managed on complex highway projects, enabling remote monitoring and control without the need for dedicated operatives stationed on site.

The London Road scheme is a major infrastructure project designed which on completion will provide the access to a new employment-focused development near the Swinfen Interchange in Lichfield. The works form the first phase of wider infrastructure improvements supporting future development in the area and are being delivered through a partnership between Staffordshire County Council, Indurent and Amey.

Given the scale of the works and the need to maintain traffic flow throughout construction, the site provides an ideal environment to evaluate how remotely operated temporary traffic signals can improve both operational performance and road user experience.

How the System Works

REMOS™ combines advanced radar detection technology, CCTV monitoring and secure remote communications to provide live oversight of temporary traffic management operations.

Real-Time Traffic Monitoring

The system uses radar sensors and CCTV cameras to continuously monitor traffic movements through the works area. Live traffic information is transmitted securely to a central control environment, providing operators with real-time visibility of site conditions.

Remote Signal Control

Through SRL's secure web-based Control Hub, trained operators can:

- Monitor live traffic conditions.
- Switch between automatic and manual operation.
- Adjust signal timings in response to congestion.
- Activate "All Red" mode when required.
- Manage multiple sites simultaneously from a central location.

This capability allows traffic management decisions to be made proactively rather than reactively, helping to minimise disruption and optimise network performance.

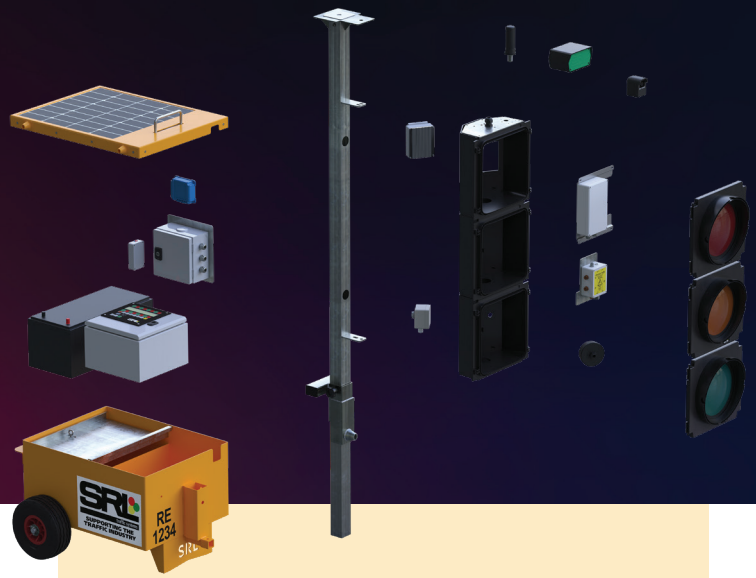
The Benefits

Traditional manually operated temporary traffic signals often require dedicated operatives on site to monitor traffic conditions and intervene when necessary. While effective, this approach can expose personnel to live traffic environments, increase operational costs and limit the ability to respond proactively to changing traffic conditions.

By using REMOS™, we are assessing how remote signal operation can:

- Improved workforce safety through remote operation
- Reduce the need for on-site intervention.
- Enhance traffic flow through proactive signal management.
- Support our sustainability objectives.
- Provide real-time traffic intelligence to improve decision-making.
- Access to valuable traffic intelligence and analytics.
- Increase operational efficiency across temporary traffic management projects.
- Reduced congestion and improved traffic flow.
- Lower operational and labour costs.
- Secure, GDPR-compliant operation.
- Ability to manage multiple sites from a central location.

Safety Benefits



Safety remains our primary consideration on every scheme. One of the most significant advantages of REMOS™ is the reduction in workforce exposure to live traffic environments. By removing the need for operatives to remain stationed at temporary signal locations, we can significantly reduce the risks associated with:

- Vehicle strikes.
- Roadworker abuse.
- Adverse weather conditions.
- Fatigue-related errors.
- Restricted visibility across complex traffic management layouts.

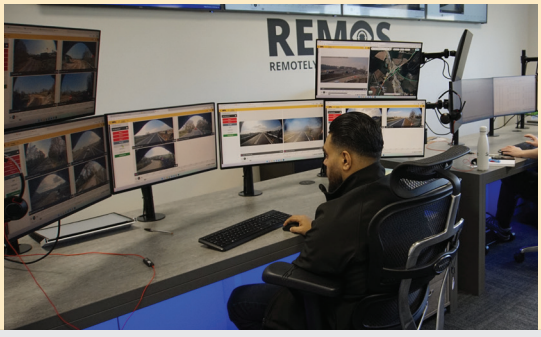
Remote operation also provides operators with a broader view of site conditions, enabling more informed decisions and reducing the potential for human error.

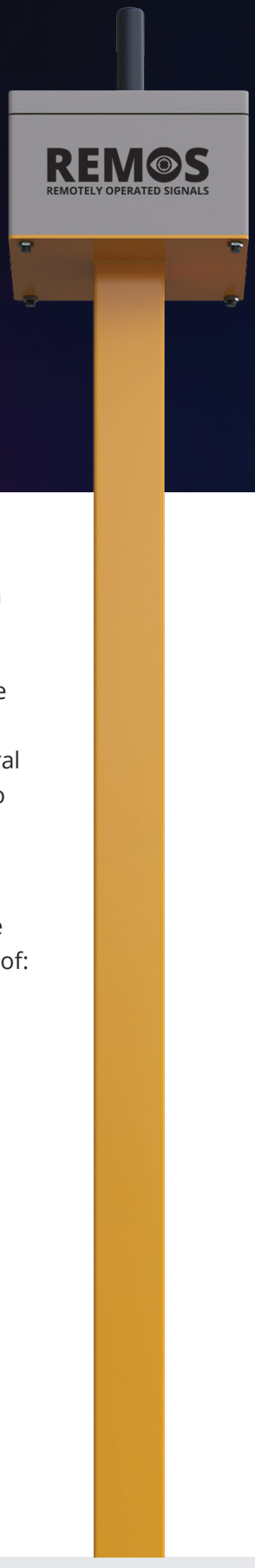
Industry-Compliant Technology

REMOS™ has been developed to meet recognised industry and statutory standards, including:

- BS EN 50556
- BS EN 12368
- BS EN 12675
- BS EN 50293

This provides confidence that the technology meets the performance, safety and reliability requirements expected for modern temporary traffic management systems.





Delivering Measurable Carbon Savings

Alongside the operational and safety benefits, the REMOS™ trial helped Amey Traffic Management reduce the environmental impact associated with traditional temporary traffic signal operations.

Under a conventional manually operated signal arrangement, regular site visits are required throughout the duration of the project to monitor traffic conditions and make signal adjustments. By enabling remote monitoring and control from a central location, REMOS™ significantly reduces the number of vehicle journeys required to support the traffic management operation.

For the London Road, Lichfield scheme, our analysis indicates that the use of REMOS™ will eliminate approximately 7,416 miles of travel over the duration of the project. This reduction in vehicle movements delivers an estimated carbon saving of:

Vehicle Type	Carbon Saving
Van Movements	1.11 tCO_2e
Car Movements	0.84 tCO_2e
Total Saving	**1.94 tCO_2e**

These savings are achieved through the removal of routine site attendance requirements for signal monitoring and operation, allowing traffic management activities to be managed remotely while maintaining full operational oversight.

Beyond the direct carbon reduction, fewer vehicle journeys also help reduce fuel consumption, congestion associated with operational travel and vehicle wear and tear. This supports both Amey and SRL's wider commitment to delivering more sustainable infrastructure services while helping our clients achieve their own environmental and carbon reduction objectives.