

The COLAS logo is a yellow diamond shape with a blue outline, containing the word "COLAS" in bold black capital letters.

**COLAS**

UNITED KINGDOM

A nighttime photograph of a wide, multi-lane road or bridge. The road is illuminated by several tall, curved streetlights that create a starburst effect. In the background, a city skyline is visible, including a prominent green-lit tower and other illuminated buildings. The sky is a deep blue. The foreground shows the road surface and a metal guardrail.

# **Integrated Transport Systems**



## INTELLIGENT WORLD CLASS SOLUTIONS FOR TOMORROW'S TRAFFIC

Colas is challenging perceptions with a range of ground-breaking innovations, clever solutions and an adaptability that is delivering effective solutions.

We offer cutting-edge innovative technology and a genuinely collaborative approach. We listen to our clients and we work with them to find the best solutions to their requirements.

Colas has invested in developing the next generation of traffic solutions at our scientific and research campus outside Paris – all with the aim of delivering more efficient, safer journeys for road users.

### Our ITS expertise includes:

- > Traffic signals
- > Traffic monitoring and enforcement cameras
- > Variable message signs
- > Access control systems
- > Street lighting
- > Ancillary roadside equipment







## VARIABLE MESSAGE SIGNS

Allowing up-to-date information and warnings to be communicated to road users, our in-house team designs, manufactures, installs and repairs message signs for the local, urban or strategic road networks.

Over the past twenty years we have installed over 8,000 items. We developed our innovative off-site approach to installing Variable Message Signs (VMS). Prior to the gantries being installed on the M42 for our client Highways England, using their Lean Maturity Assessment (HELMA) framework, we pre-installed the VMS onto the gantries in a warehouse. This approach delivered faster installation and delays of just half an hour for road users with minimal requirement for traffic management. And with safety a no. 1 priority for Colas, we improved this as our engineers work no more than eight metres from the ground, rather than fifteen meters when on-site.

Colas continues to innovate with our all-new V3 Variable Message Sign - bringing a step-change in highways signage to the UK this year. These intelligent signs, which can be mounted overhead on gantries or at the road-side, remotely give operators total control to display full-colour messages to road users. They can be used to display pictures, maps, photographs, traditional messages and even films on the full-matrix screens.

Designed and manufactured in France to UK specifications, the signs come in a variety of sizes. Adaptable for many highway applications, V3 signs offer potential for motorway and trunk road use – putting customers first and making journeys safer and more efficient.



## STREET LIGHTING

Our specialist lighting teams collaborate with our customers to provide solutions that meet their specifications, and integrate with the local environment.

We provide street lighting and decorative lighting services in a range of locations, including:

- Trunk roads and motorways
- Residential estates
- Pedestrianised streets
- Recreational areas

We aim to install innovative technology to provide a sustainable long-term solution, through the use of energy-efficient LED lanterns and our Central Management System hardware.

Environmentally-focused local authority, Brighton & Hove, took the decision to invest £6.5 million to provide sustainable street lighting in the city, reducing emissions, lowering energy costs and boosting safety. It is a major project being installed during 2019 and 2020 with approximately 21,000 street lights in 2,400 historic streets. Some LED lanterns have already been installed and this project will see all remaining lanterns replaced or converted. In addition, LED modules will be installed in some historic and decorative lighting units.

Colas will provide maintenance support before, during and after the LED installations and will, as part of the contract, undertake cyclic maintenance activities and manage a column replacement programme for expired lighting units.

In addition to the stated aim of providing more sustainable lighting and reducing energy consumption, the LED lanterns will improve safety in the city. The designed lighting solutions will use a warm white LED light source which will improve lighting levels and make colours more visible.







# Traffic signals

Colas supplies, installs, commissions and maintains traffic signals equipment across the globe. In the UK we work with Local Authorities where typically we engage in refurbishment projects, installation schemes or term maintenance contracts.

Our new, ground-breaking **M@estro** traffic signal control is designed to improve vehicle flow, enhance control and offers futuristic capabilities. Developed by the Colas Group, M@estro is an intelligent controller. Already in operation across the Continent and internationally, it meets current traffic control systems demands and is UK Topaz compliant, capable for running sites on MOVA 8, UG405 and has UTC capabilities.

This new controller will offer effective and smooth management of traffic specifically targeted at the needs of UK road users. It works with all the latest detector systems directly, but M@estro has the very real capacity to do so much more.

M@estro has inbuilt remote monitoring and can be connected directly to the Imtrac for fault management. This solution will be available in all M@estro controllers as a free to add feature, and will also be available as a stand-alone unit for existing sites across clients' networks.

With vehicle technology developing rapidly, M@estro anticipates future developments in traffic control requirements and offers the prospect of intelligent control today. It will be able to 'talk' directly to vehicles, managing traffic flow in a way that the road users of the future will expect.





**INVEST > DESIGN > CONSTRUCT  
MAINTAIN > OPERATE**

# **Innovating for tomorrows highways**

From our new traffic controller, M@estro, to our latest full colour V3 Variable Message Signs, Colas has invested in developing the next generation of traffic solutions. The amazing potential of our Wattway photo-voltaic road surface has already been recognised and Flowell, our intelligent road markings system looks set to transform the highway – delivering more efficient, safer journeys for road users.

## **Wattway**

Providing solar energy, the Wattway autonomous generator is a turnkey solution designed to provide energy autonomy to roadside equipment. It consists of photovoltaic panels installed directly on the road which is connected to an energy storage system, making it possible to connect and power all your equipment.

## **M@estro**

Bringing ground-breaking potential to traffic signal control in the UK - improving vehicle flow, enhancing control and offering futuristic capabilities. It has inbuilt remote monitoring and can be connected directly to the Imtrac for fault management.

## **V3 - Variable Message Sign**

A step-change in highways signage to the UK this year, these intelligent signs, remotely gives operators total control to display full-colour messages to road users and can be used to display pictures, maps, photographs, traditional messages and even films on the full-matrix screens.

## **Flowell**

A solution to better organise public spaces, Flowell can visually restructure city streets and urban, peri-urban and country roads, using integrated, dynamic, luminous signalling. The Flowell solution can include a range of control options, and the LEDs can be turned on to follow the movement of users, providing a dynamic and interactive road management system.

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