



AI-powered journey tracking
and pollution control that
keeps cities moving

Traffic and the poor air quality it causes are complex issues for cities to manage and understand cost-efficiently.

Our 'smart city' digital system provides data required for the urban policy decisions needed. It also uses advanced machine learning technology to anticipate congestion spikes before they happen.

The challenge for UTMC is that vehicles are a major source of pollution through exhaust emissions of fine particulates, a problem worsened when journeys are delayed. This makes keeping traffic moving a priority.

But with greenhouse gas emission targets being set to combat climate change and air pollution now contributing to 40,000 UK deaths a year, that priority is increasingly urgent.

At the heart of NOW Wireless is the most advanced automatic reaction available to digital traffic data: An Artificial Intelligence (AI) that responds to real-time information, including data from linked pollution sensors.

But the AI does more than assimilate and analyse information such as vehicle type, travel time of day and length of trip. It takes action.

This includes diverting traffic from a congested area, encouraging it to flow better through traffic light sequencing, or sending SMS messages to drivers recommending alternative routes or travel times.

The AI has a machine learning capability. Within one day of being installed it will accurately predict pollution levels an hour in advance. The machine learning analyses data gathered from a range of sources: Connected CCTV cameras, pollution sensors, historical weather patterns and passing digital signatures.

This predictive capability means a problem is resolved before it even becomes one.





The pollution sensors, which report into the AI every minute, are highly cost-effective to install and maintain. They are accurately measuring NO2 to 10 parts per billion and detect nine other harmful gases, including ozone, chlorine and carbon monoxide.

Now Wireless does not lock you in to our technology, but works flexibly with existing UTMC frameworks and scales as required.

The technology and proprietary components are already trusted for use by 40 UK cities, building an unrivalled database from more than 30,000 on-street devices, including 2,000 sensors in the West Midlands alone.

For more information about how NOW Wireless can meet your traffic management needs please call **01883 621 100**.

NOW Wireless smart and seamless technology means:



Traffic activity broken down into 17 different vehicle types, from motorbikes to flatbed trucks.



Automatic response to actual and predicted pollution spikes.



Priority given to road users, including cyclists, buses and pedestrians, as required.



Accurate information to allow policy decision makers to act quickly.



Manufacturer and Supplier
of advanced AI City Solutions

nowwireless.com | 01883 621 100 | sales@nowwireless.com

NOW Wireless, Bourne House, 475 Godstone Road, Whyteleafe, CR30BL