

# Traffic Management Optimisation

Decrease congestion and improve traffic flow with Entopy's AI platform

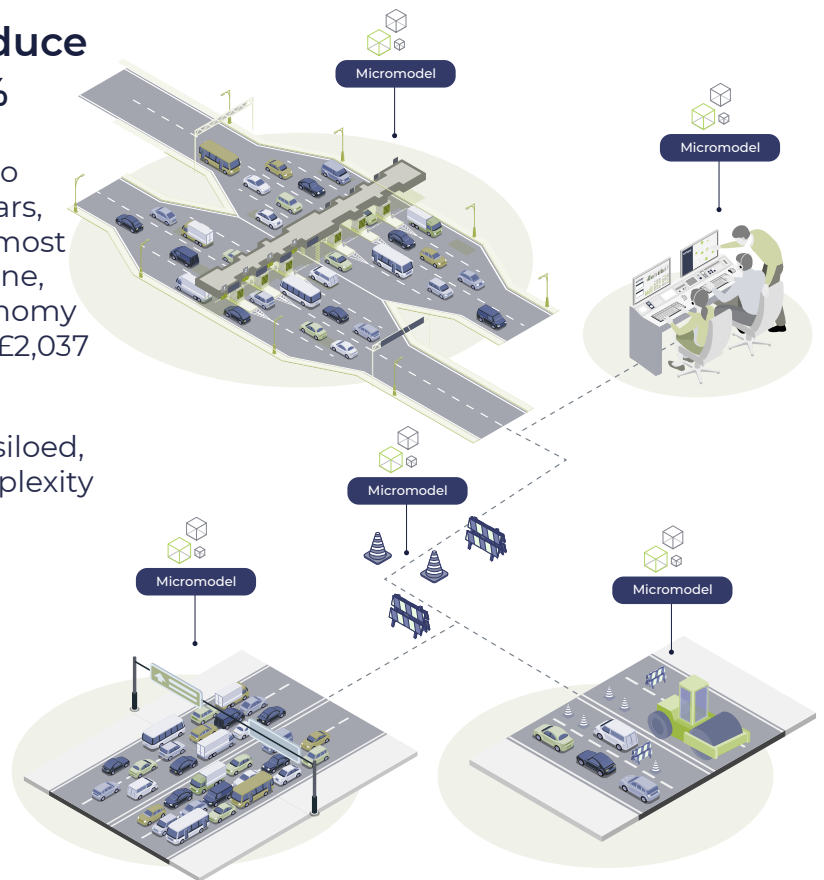
entopy

## Use decision intelligence to reduce traffic congestion by up to 50%

With global road traffic volumes expected to increase by more than 40% in the next 5 years, congestion is rapidly becoming one of the most pressing infrastructure issues. In the UK alone, traffic delays are forecasted to cost the economy £21.4 billion per year by 2030, equivalent to £2,037 per household.

Traditional traffic systems are reactive and siloed, unable to keep pace with the growing complexity of urban mobility, freight demand, and infrastructure pressures.

Entopy delivers predictive intelligence **4 weeks** in advance in 15-minute intervals and provides simulative capabilities for scenario testing.



## Challenges you face (and we solve)

- Reactive decision-making due to limited predictive insight
- Limited visibility
- Congestion hotspots forming faster than they can be managed
- Overlapping roadworks and poorly coordinated closures
- HGV surges leading to local disruption and safety risks
- Slow incident response due to lack of real-time operational visibility
- Public transport delays with no clear forecasting tools
- Fragmented data systems that make unified planning difficult

# Benefits at a glance

Entropy enables smarter, faster decisions across the entire road network. Key benefits include:

## Predictive diversion planning

Prepare signage, rerouting, and comms before congestion occurs.

## HGV flow & holding intelligence

Prevent localised freight overflow and improve delivery coordination.

## Roadworks scheduling

Avoid overlap with peak traffic times by aligning closures with predicted network patterns.

## Dynamic staff deployment

Forecast-led rostering for faster, more targeted incident response.

## Public transport management

Support smoother journeys and minimise disruption across modes.

## Emergency services routing

Improve response times with predictive routing and asset positioning.

# Real impact

Entropy's platform has shown the potential to reduce congestion in targeted areas by **10-50%**, improve public satisfaction, reduce negative news coverage, and increase operational efficiency across key mobility systems.



# Why Entropy?

## AI Micromodels

Predict traffic flows at a granular level (junctions, routes, zones) and integrate them into a full-network Digital Twin.

## Real-time orchestration

Ingest data from sensors, social feeds, and APIs to monitor outlier events like accidents, roadworks, or weather disruptions.

## Simulation & scenario testing

Model "what if" scenarios, such as diversions, major events, or incidents, to plan and respond with confidence.

## AI Agent interface

Ask questions, generate charts, and interact with the Digital Twin using natural language for real-time insights.

## Overcome data availability

Entropy uses synthetic data and ontologies to fill gaps, enabling insights even with limited data.

# Ready to take control of congestion?

Let's explore how Entropy can support your traffic management strategy.

**Book a 15-minute demo.**

**entropy**

**Contact us:  
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