

Air Quality Innovation - partnering with industry leadership



**Monitoring pollution
is not enough.**

**EMSOL is the first
to transform air
quality breaches
into real, actionable
solutions**



OUR MISSION

To empower organisations to take steps, every day, that make a lasting improvement to communities and public health

Make the causes visible

Real-time sensing + video that shows what averages hide.

Turn evidence into action

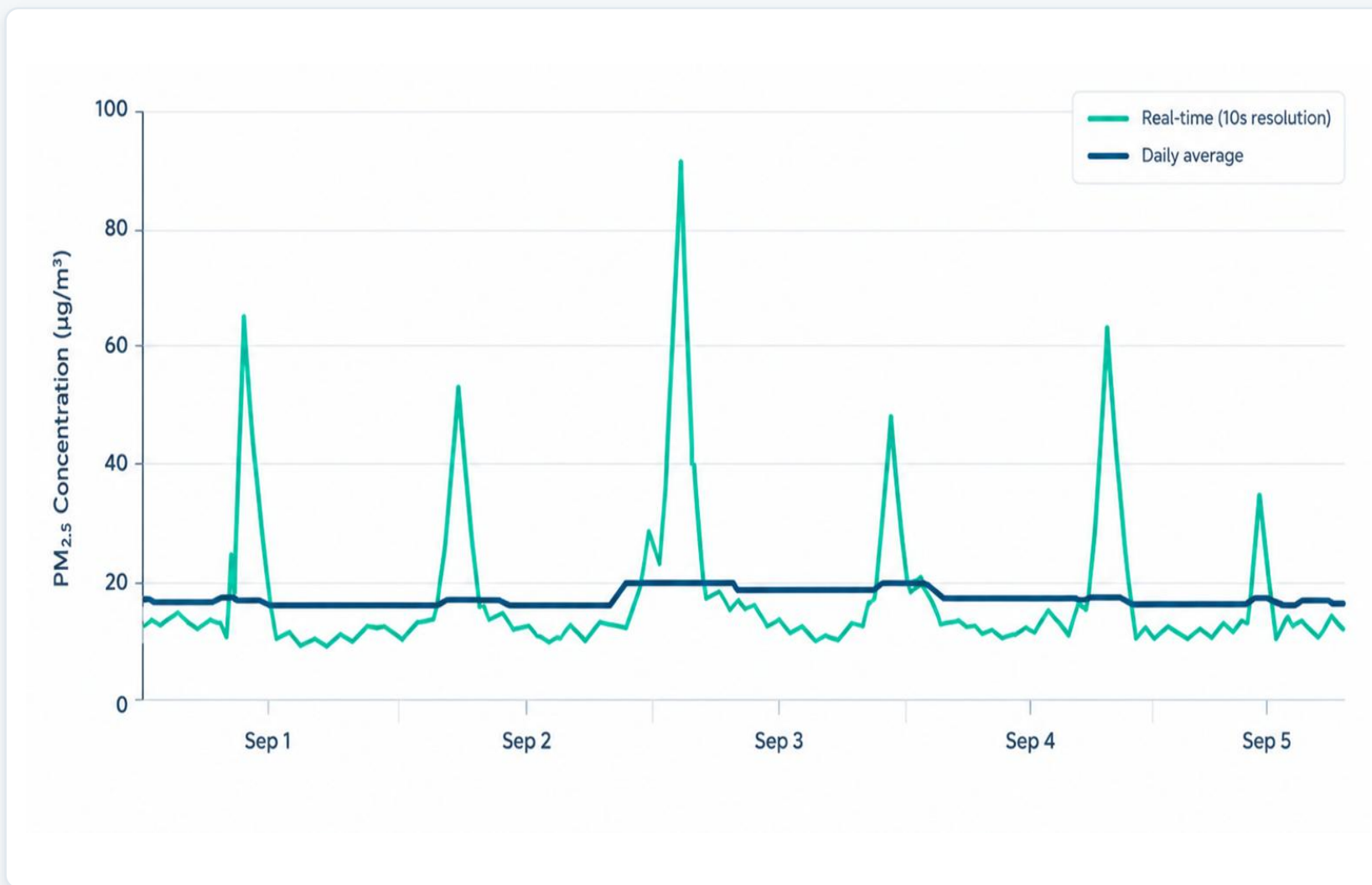
Attribution that operators can act on and be accountable to.

Measure the change

Prove whether a mitigation actually worked, over time.



Monitoring is essential, but averages hide the peaks that matter



Every spike, explained

Video analytics turns a threshold breach into an answer – what happened, who was involved, and when.

01

Threshold breached

Site-specific pollution or noise threshold is exceeded.

02

1-minute time-lapse captured

GDPR-compliant video window before and during the spike.

03

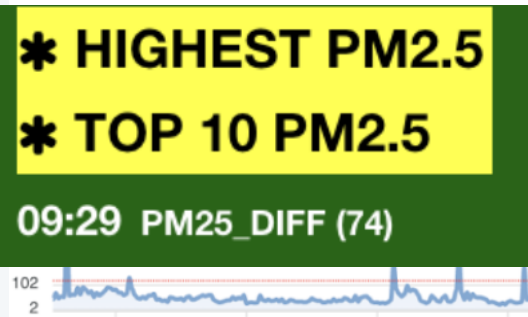
Activity tagged

Supplier, category of site activity, and human activity – including smoking or leaf-blower use.

04

Causality data recorded

A structured, tagged dataset ready for reporting or dispute resolution.



Capturing causes of pollution spikes

AIR QUALITY

INSTANT ALERTS

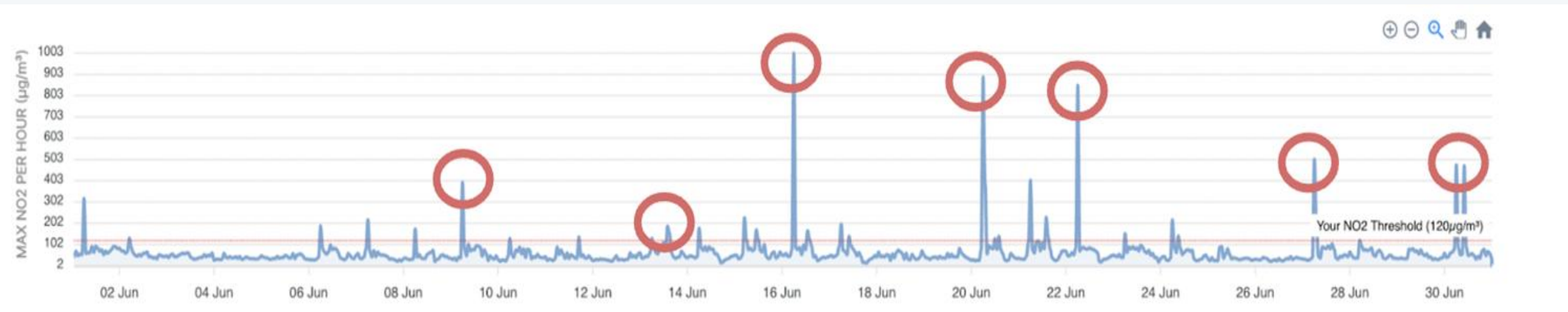
VIDEO EVIDENCE

POLLUTION ATTRIBUTION



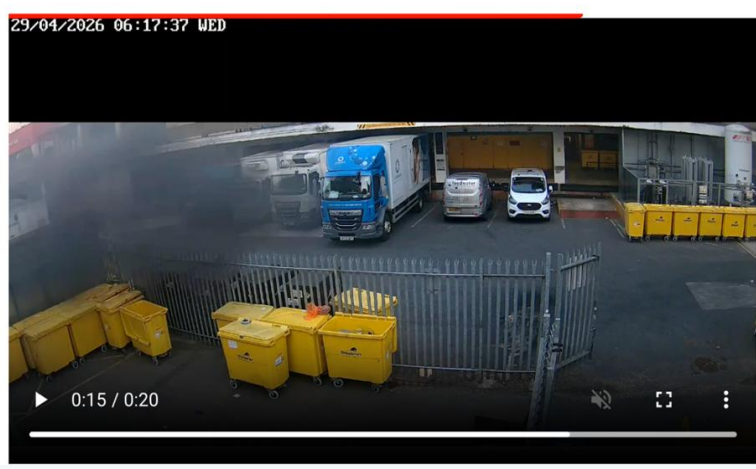
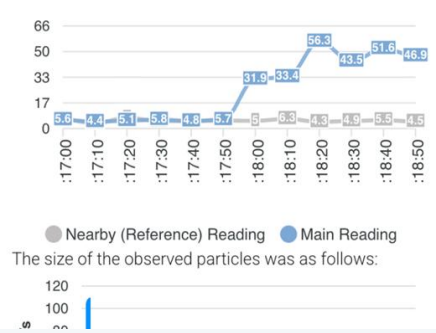
CATEGORY 1: Site activity			CATEGORY 2: Supply Chain activity		CATEGORY 3: Human & Other activity		
22	15	10	12	23	26	11	8
Overcrowding	Generator test	Unloading activities	Vehicles Manoeuvring	Vehicles Idling	Smoking	Sweeping/Power Washing	3rd Party Sites/Road pollution

Target the biggest spikes: Top 10 per calendar month



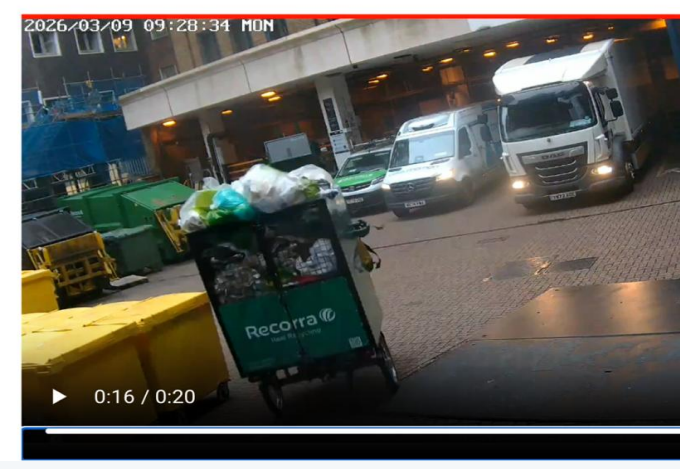
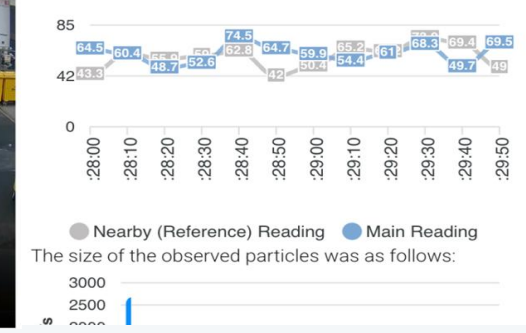
PM25_DIFF Pollution Spike (Wed 29th Apr 2026 6:18 AM) ☆ 🔔 📌 📄

The blue line below shows readings near the time of the spike. The gap between it and the grey line shows the amount likely caused by activity near the sensor. The difference between these exceeded your threshold of $35\mu\text{g}/\text{m}^3$, creating this spike.



PM25_DIFF Pollution Spike (Mon 9th Mar 2026 8:29 AM) ☆ 🔔 📌 📄

The blue line below shows readings near the time of the spike. The gap between it and the grey line shows the amount likely caused by activity near the sensor. The difference between these exceeded your threshold of $15\mu\text{g}/\text{m}^3$, creating this spike.



Supply chain solving the problem at hospital sites

Recorra



Manage tickets



Breakfast Briefing

Improving Air Quality
at NHS Hospital Sites

Breakfast Briefing: Improving Air Quality at NHS Hospital Sites

Select tickets

Tue 19 May 2026 9:00 AM - 11:30 AM

📍 The Ministry Building, Borough, SE1 1DN

Join Guy's and St Thomas' NHS Foundation Trust (GSTT), EMSOL, and Recorra for a relaxed breakfast briefing exploring how data, collaboration, and operational change can help improve air quality across NHS hospital sites.

Breakfast Briefing: Improving





Implementation of **demand smoothing** and **supply chain optimisation** action



972kg
of CO2
saved pa.



30% reduction
in delivery
days

Case Study: Hampshire Hospitals

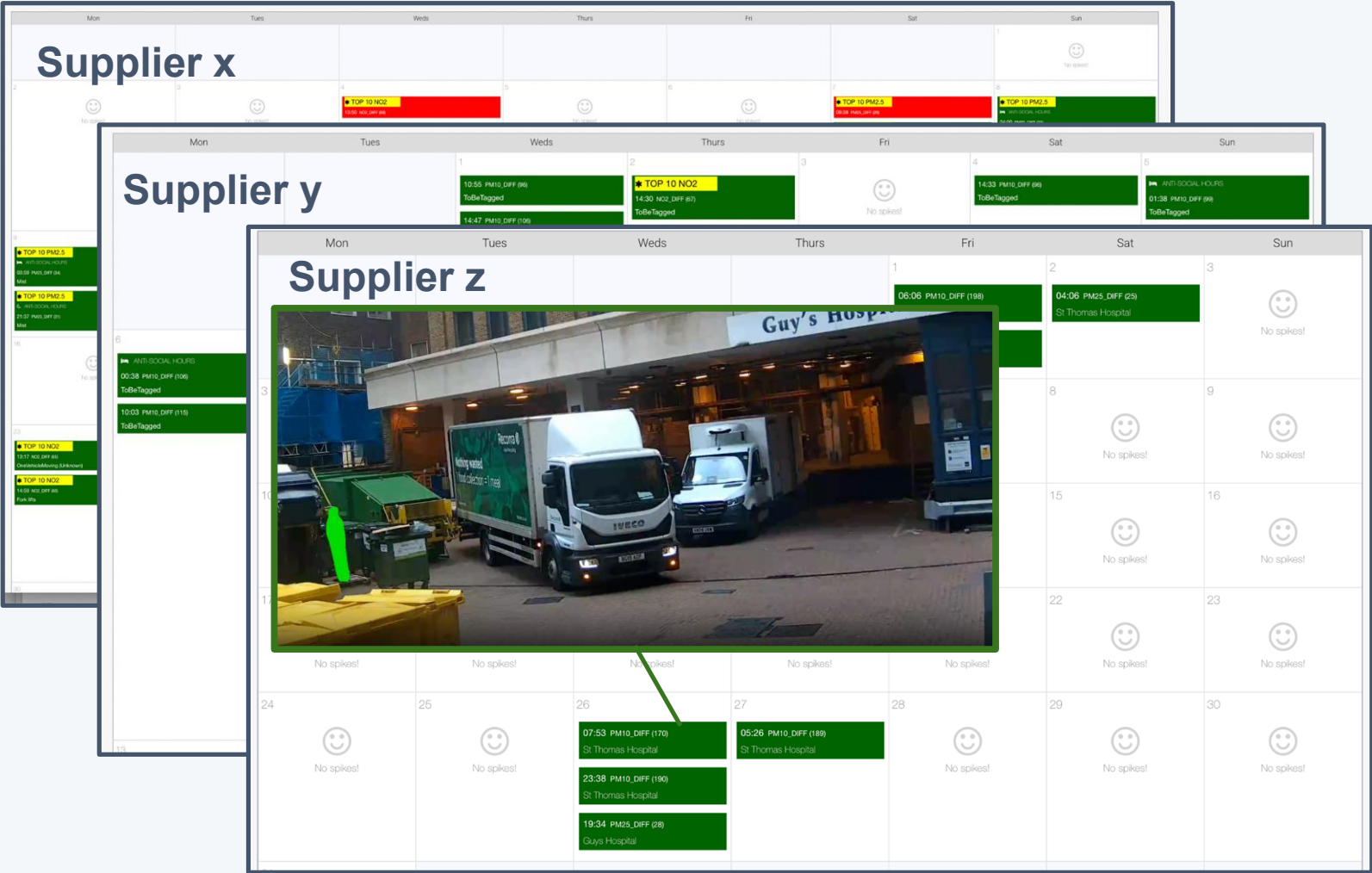
- Video evidence identified idling vehicles at the Hampshire site as the primary source of pollution. Armed with visual proof, the Trust implemented targeted changes to driver behaviour. With delivery days reduced by 82% & projected CO2 reduction of 972kg per annum.



"We've got the recording that says this activity caused this spike and it's above the background level. So we're able to isolate a particular cause of a pollution spike. And that is it's gold dust for talking to people about changing behaviour."

Andrew Whincup, Travel Manager, Hampshire Hospitals NHS

Providing Suppliers with data to reduce their emissions



Guy's and St Thomas'
NHS Foundation Trust

Hampshire Hospitals
NHS Foundation Trust

Mid and South Essex
NHS Foundation Trust

Oxleas
NHS Foundation Trust

East London
NHS Foundation Trust

Enabling Enterprise to integrate AQ into ESG reporting



Air Quality becomes a tangible, trackable metric industry can manage, moving ESG reporting to evidence, targets and demonstrated reduction.



“It’s one thing knowing, but it’s another thing actually understanding”

- Emily Pritchard, Head of Sustainability - Surrey County CC

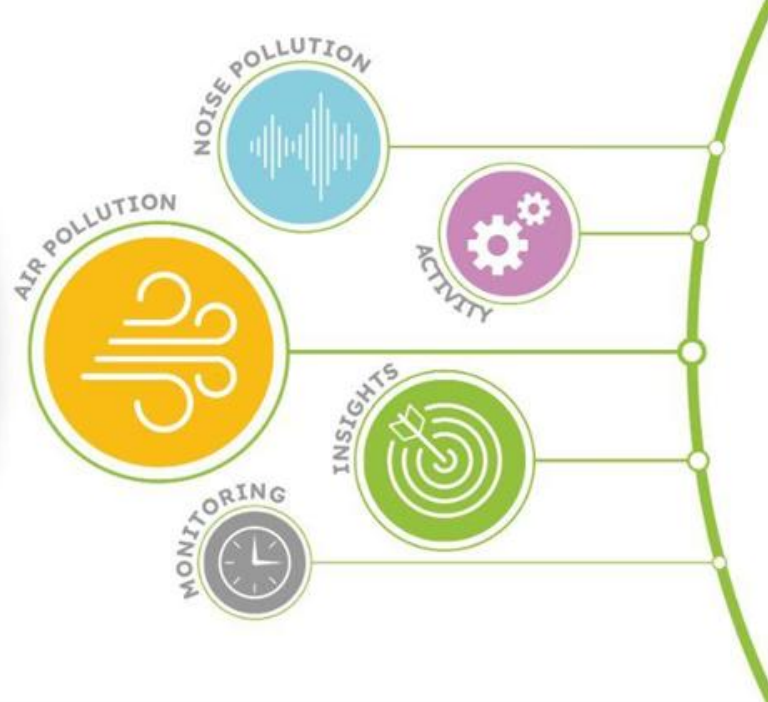
Using Digital Displays to instigate behavioural change





Award winning air & noise
pollution reduction

Actionable & scalable



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