



CitySense comprises a meticulously engineered sensing hardware that can be conveniently installed on various public transport systems and service vehicles to collect environmental data reliably.

Complemented by a robust software platform, the system transforms the gathered spatial-temporal big data into actionable insights.

Applications of CitySense

- Identifying natural gas leakages within urban areas
- Identigying areas of high air pollution for targeted mitigation efforts
- Monitoring changes in air quality over time to evaluate the effectiveness of environmental policies
 - Providing real-time air quality data to the public for health and lifestyle decisions
 - Mapping air quality across the city to inform urban planning and development
 - Facilitating research in environmental science and public health by providing valuable data

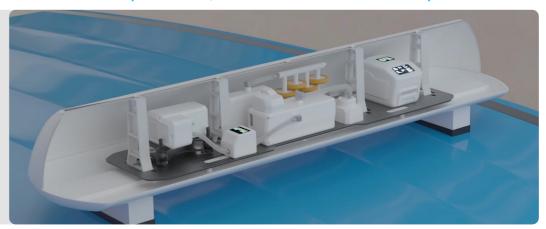


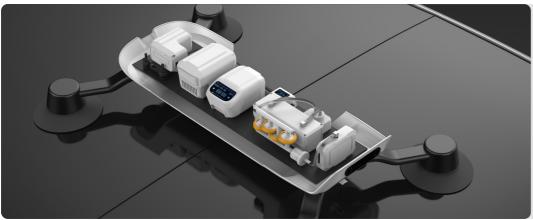


Available in Two Form Factors, "CitySense-T" and "CitySense-X", to Suit Different Vehicle Systems

CitySense-T

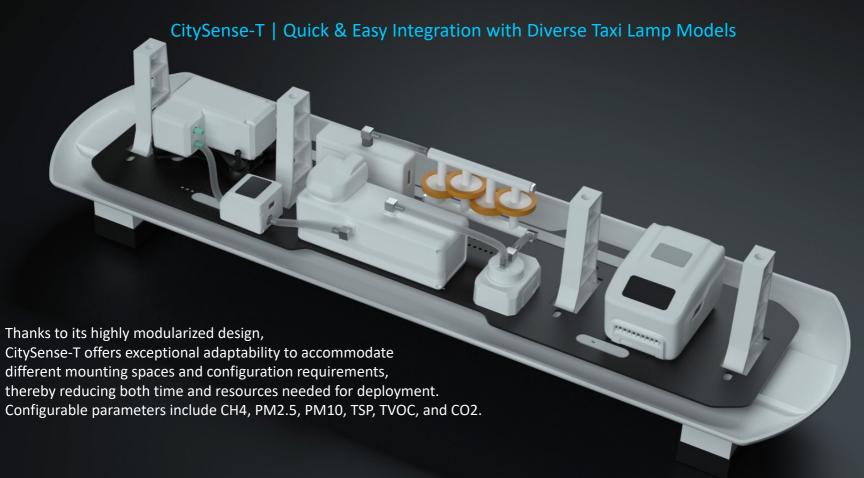
A compact and modularized version that seamlessly integrates into a variety of taxi lamp models atop conventional taxis. This offers minimal changes to the vehicle's appearance and does not interfere with the vehicle's functionality, making it an unobtrusive addition to any taxi.





CitySense-X

A robust, weather-proof version suitable for installation on a wide range of vehicles, including buses, garbage trucks, and e-hailing taxis. This version includes the option for omnidirectional cameras and LCD displays. It uses the same internal modules as CitySense-T.



CitySense-X | Additional Features





Electronically controlled automatic suction cups



4x programmable, auto-triggered omnidirectional cameras

2x LCD displays for broadcasting real-time data or tailored messages

xsoarability

Reliable, Consistent, and Representative Measurement Data

Within its price range, CitySense delivers top-class measurement data quality by using state-of-the-art sensors.



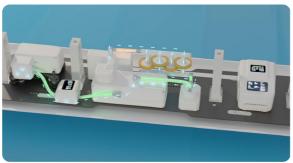
Parameter	Detection Method	Resolution
CH4	Tunable Diode Laser Absorption Spectroscopy (TDLAS)	1ppm
PM2.5, PM10, TSP	Laser Scattering	lug/m3
TVOC	Photoionization Detection	10ppb (C4H8 equivalent)
CO2	Non-dispersive Infrared (NDIR)	1ppm

CitySense-X | Additional Features

Isokinetic air intake ensuring representative air sampling under moving conditions

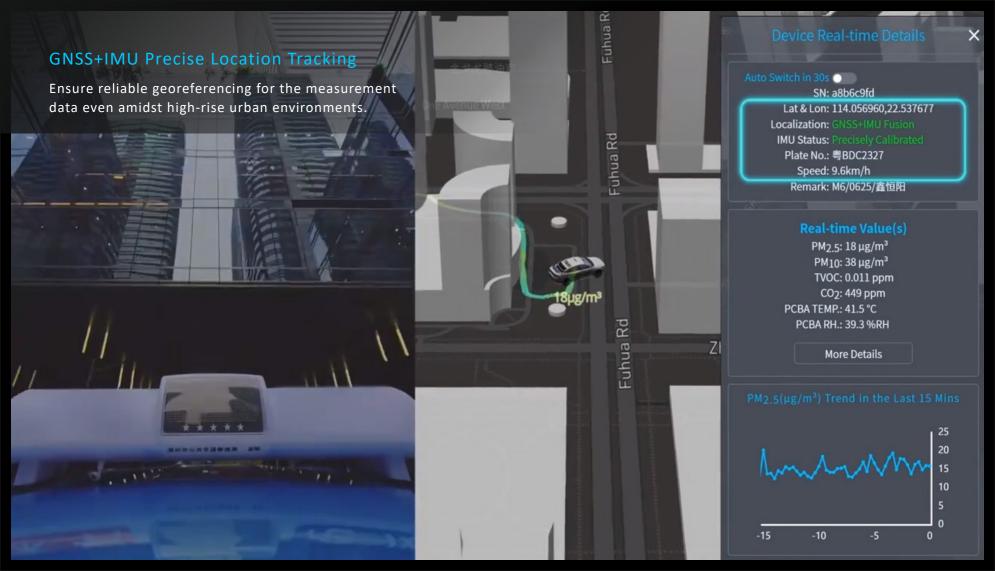


Auto-stop in rain or mist to protect precise optical parts and to avoid false PM readings



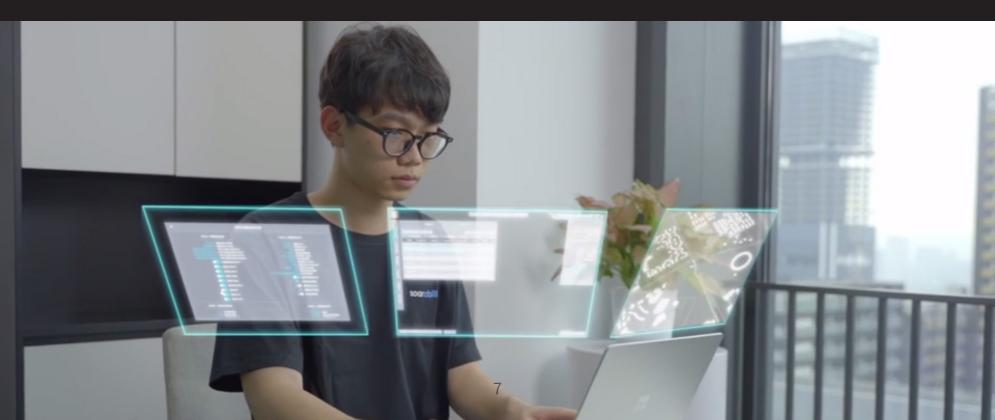
Multi-stage filtering and drying





Advanced Self-monitoring Capability

Gain real-time access to CitySense's comprehensive operational status remotely, ensuring optimal functionality and ease of maintenance.

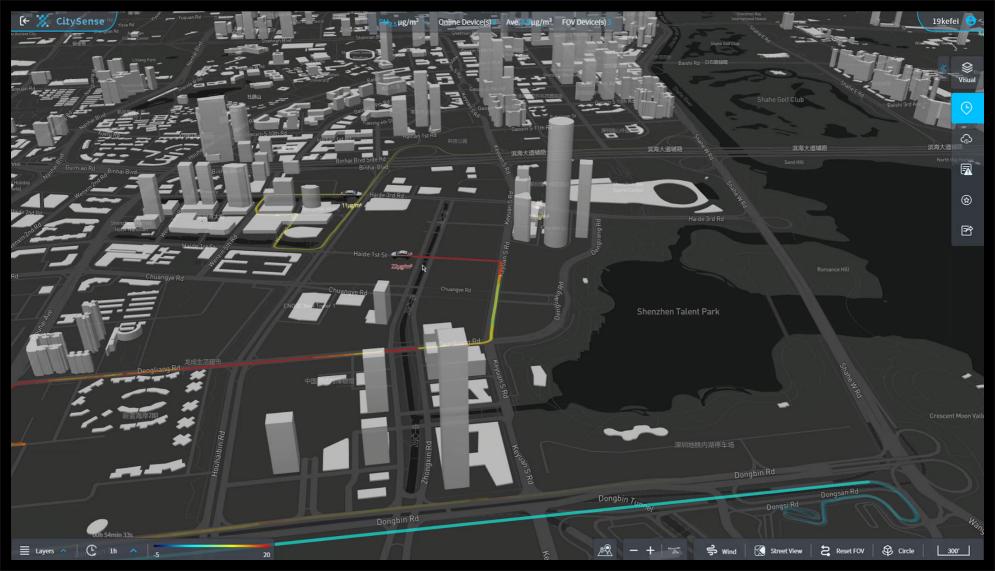


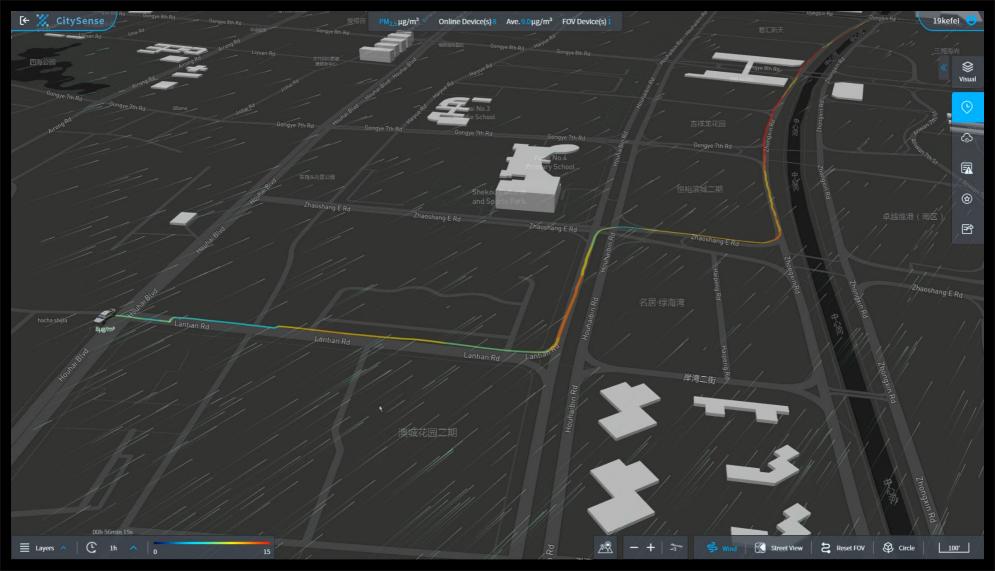


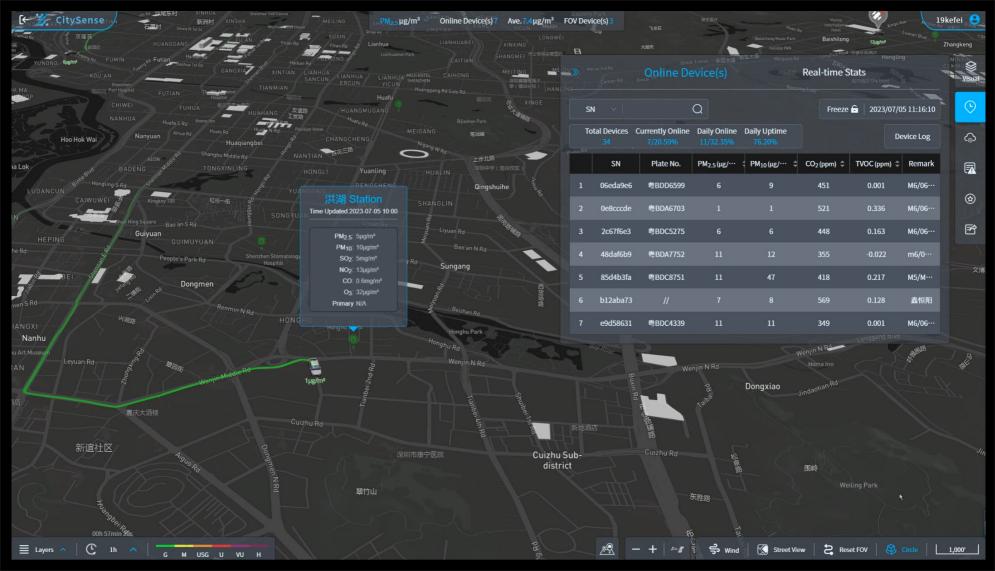
Real-time Concentration Map

Showcase the moving trails of vehicles, illuminated with colour-coded concentration data from the past 15 minutes.

This allows you to identify current high-concentration road segments and assess their impact on surrounding areas using real-time wind data.



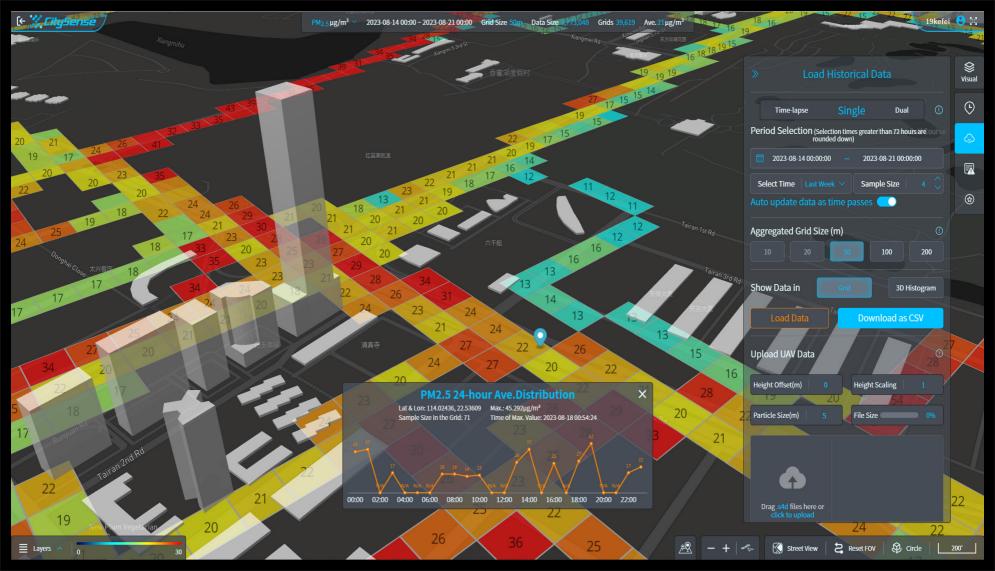


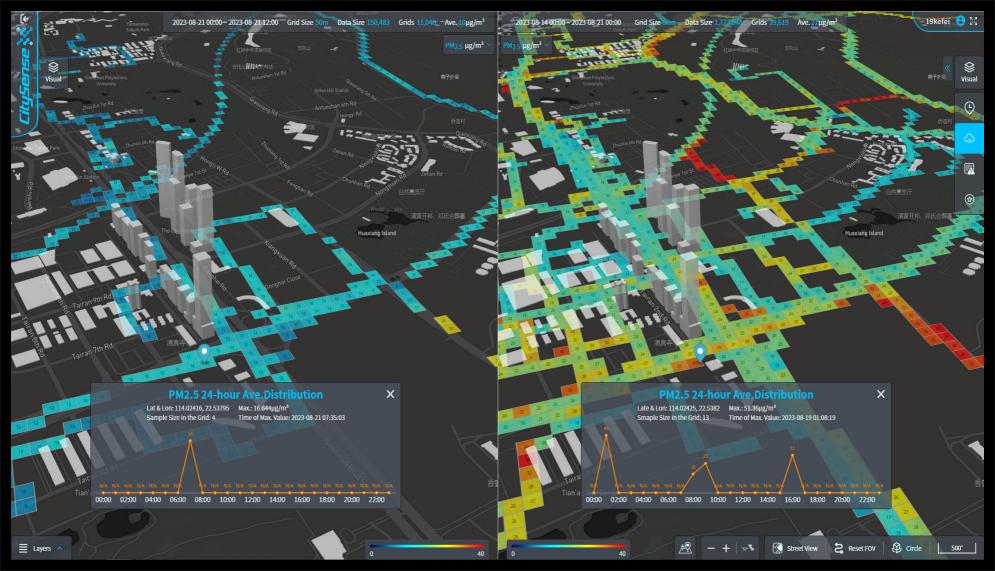


Historical Concentration Map - Single and Dual

Manage up to a billion data points to highlight high concentration areas and review 24-hour trends.

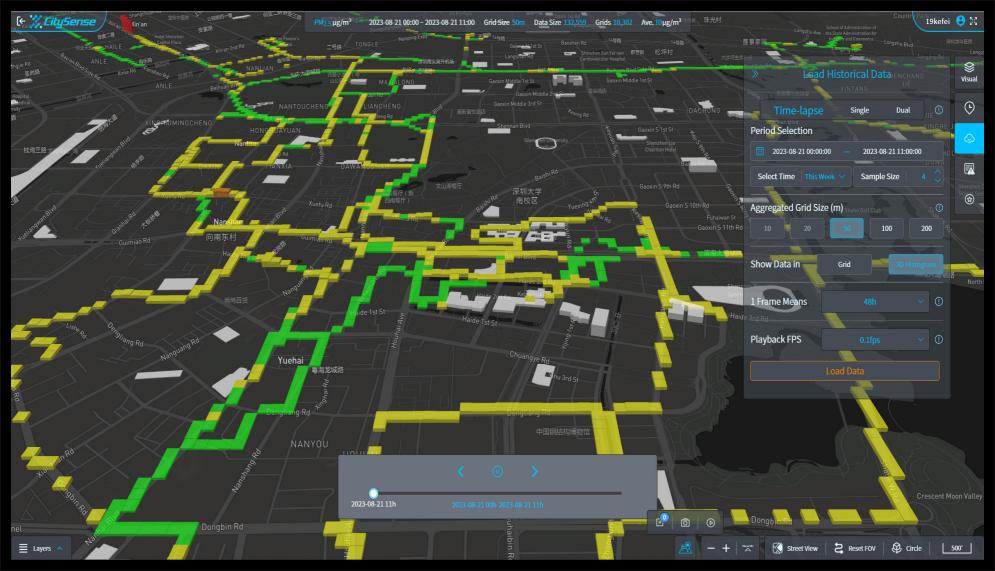
Utilize Dual Mode to contrast concentration maps displaying different periods or parameters for more in-depth insights, such as assessing the effectiveness of control policies, and finding correlations between pollutants.

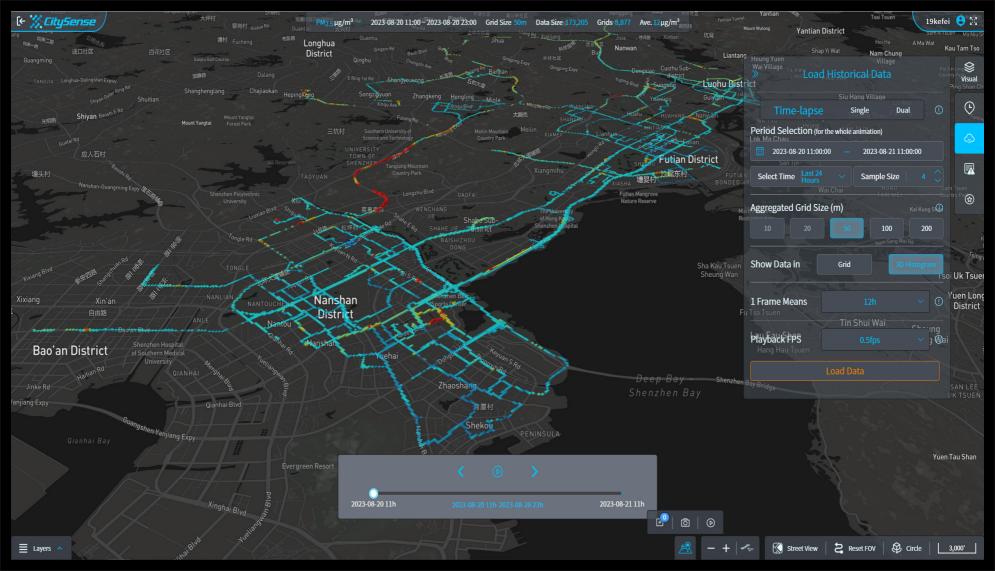




Historical Concentration Map - Time-lapse Animation

Generate dynamic time-lapse animations depicting concentration trends within a chosen time period, providing an intuitive visualization of environmental changes over time.

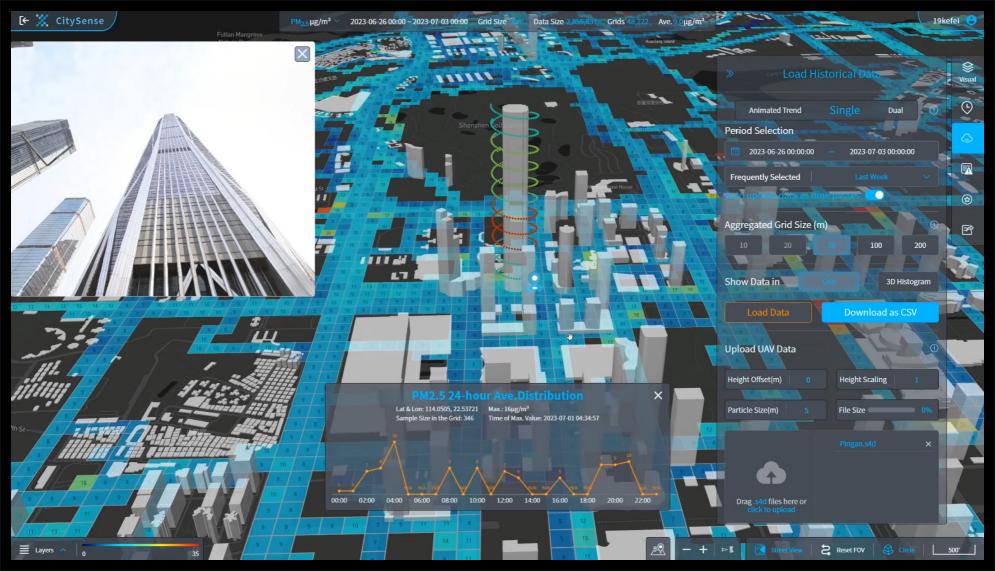




Historical Concentration Map - Multi-source Data Analysis

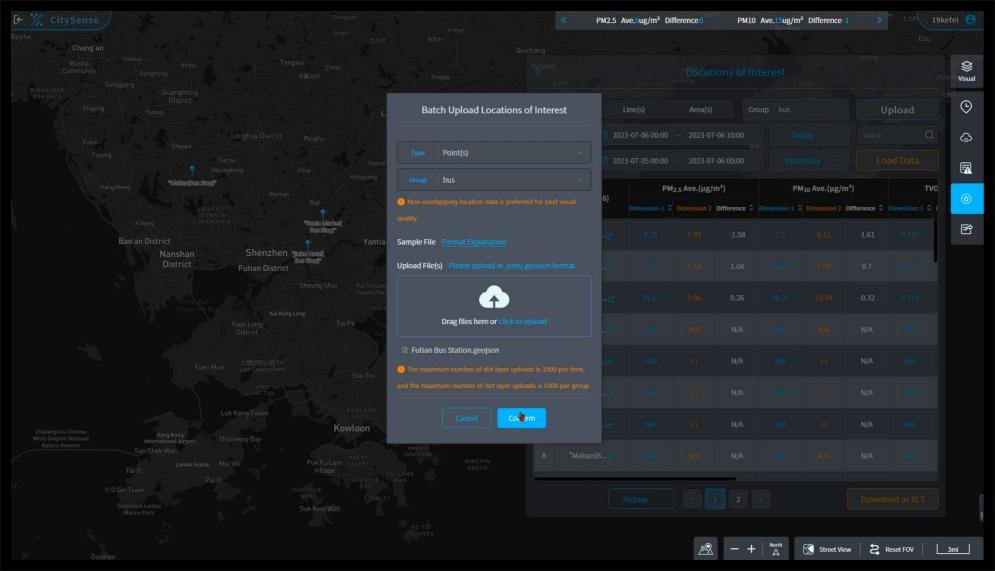
Harness the power of diverse data sources, integrating ground measurement data from CitySense hardware, UAV-mounted Sniffer4D measurement data, and Street View imagery. This comprehensive approach facilitates robust and thorough environmental analysis.

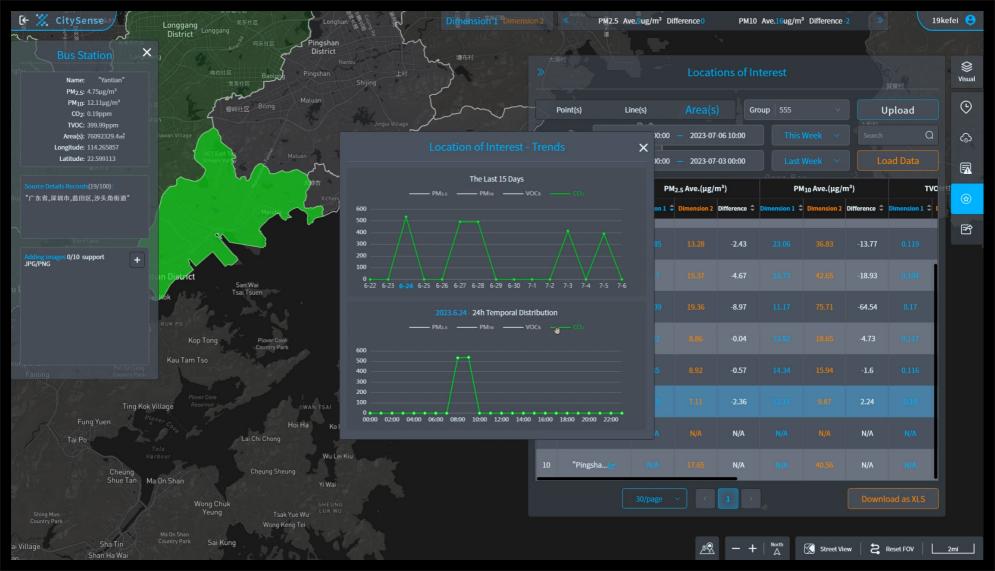




User-defined Locations of Interest: Points, Lines, and Areas

Define your points, lines, and areas of interest, rank them based on nearby concentration data, and view their 24-hour trends, offering tailored insights for specific locations of concern.





Critical Events Tracking

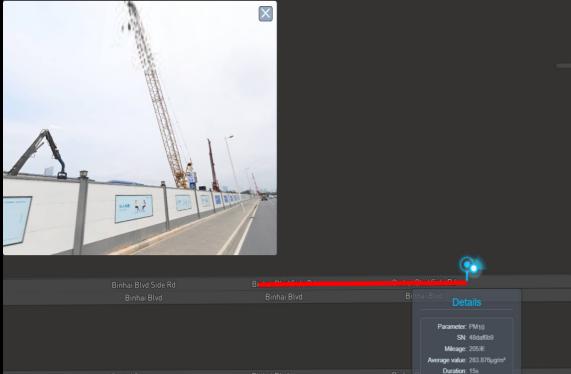
Keep track of critical environmental events.

When concentration levels exceed predefined thresholds for a set duration, the system automatically records these events, capturing details such as average concentration, event duration, occurrence time, and location.

All recorded events are accessible for review.







Start Time: 2023-08-20 15:19:04

End Time: 2023-08-20 15:19:18

