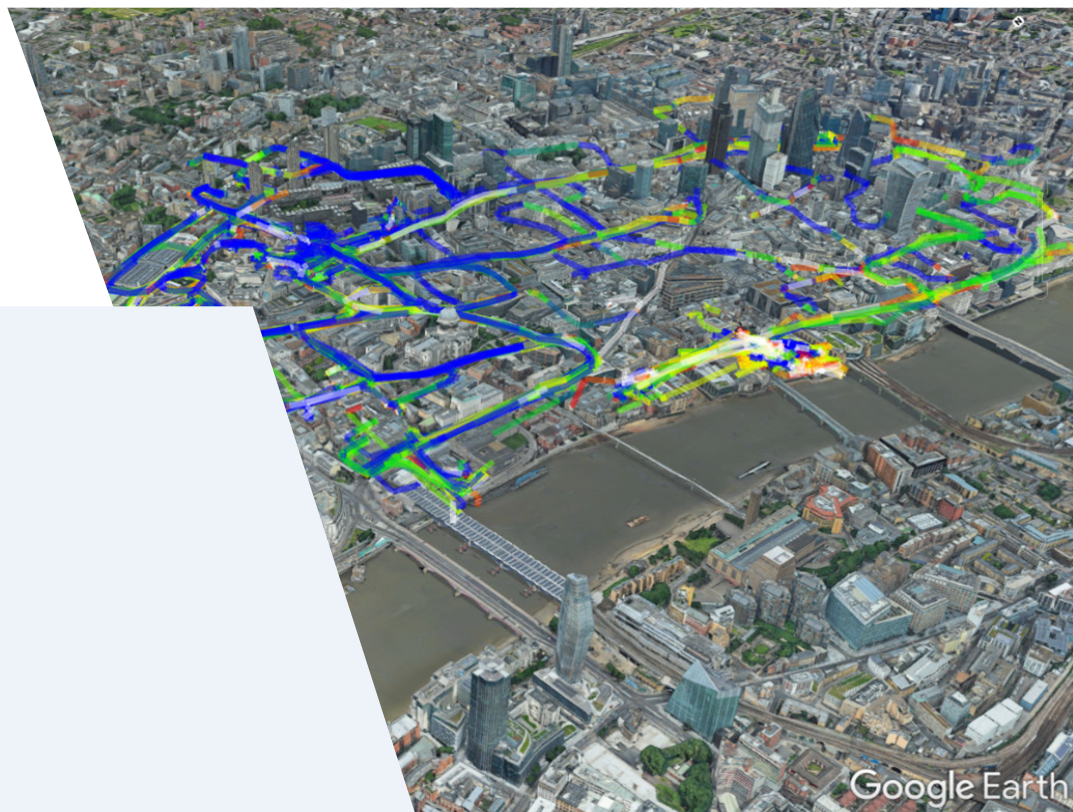




Case Study

Jacobs

Overview

Real-time data from Zephyrs® units in backpacks is being used to monitor pollution levels around four schools in Essex.

This initiative, led by Essex County Council, aims to raise awareness among parents about the impact of their transport choices on air quality, particularly along school routes.

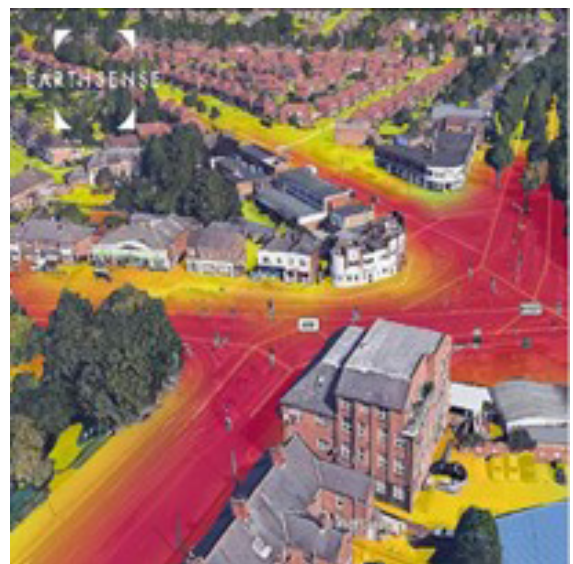
The Challenge

To gather accurate and real-time pollution data around four schools in Essex and to educate parents about the pollution levels associated with different transport choices for school drop-offs and pick-ups. Also to highlight the potential health impacts of pollution on children and the community with a view to provide data that can influence local policies and initiatives aimed at reducing pollution.

The Solution

Four Zephyrs® air quality monitoring units were placed in specially modified backpacks and these units were configured to capture air quality data every 10 seconds. Volunteers carried these backpacks and walked along the routes to and from the schools then collected air quality data was then overlaid on the MappAir® street map,

visually highlighting pollution levels along the routes.





Get in Touch

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Outcomes

Detailed pollution maps showing real-time air quality data along school routes were created so that parents and the community became more aware of the pollution levels and the impact of their transport choices.

The data provided a basis for making informed decisions to reduce pollution around schools. The project engaged the community in discussions about air quality and health.

The Future

Some of the potential future plans could be to expand the project to include more schools and areas within Essex. Ongoing monitoring to track changes in pollution levels over time and assess the effectiveness of implemented measures. Using the data to develop and implement policies aimed at reducing pollution, such as promoting walking or cycling to school.

Partnering with other councils, organizations, and stakeholders to promote similar initiatives and share best practices. Exploring advancements in air quality monitoring technology to enhance data accuracy and collection methods.