

Enhancing Safety and Efficiency in Skanska's Tunnel Construction

Our Client

Skanska stands as a global powerhouse in the construction and development industry. With footprints spanning the Nordics, Europe, and North America, the company represents a blend of innovation, sustainability, and sheer excellence. Over the decades, they have been at the forefront of groundbreaking infrastructure projects, each time pushing the boundaries of conventional construction. At the heart of Skanska's operations lies a commitment to building and building better. This encompasses safer work environments, more efficient methods, and a smaller ecological footprint. Their dedication to continuous improvement was vividly seen when they embarked on a major tunnel construction project in Norway.



The Challenge

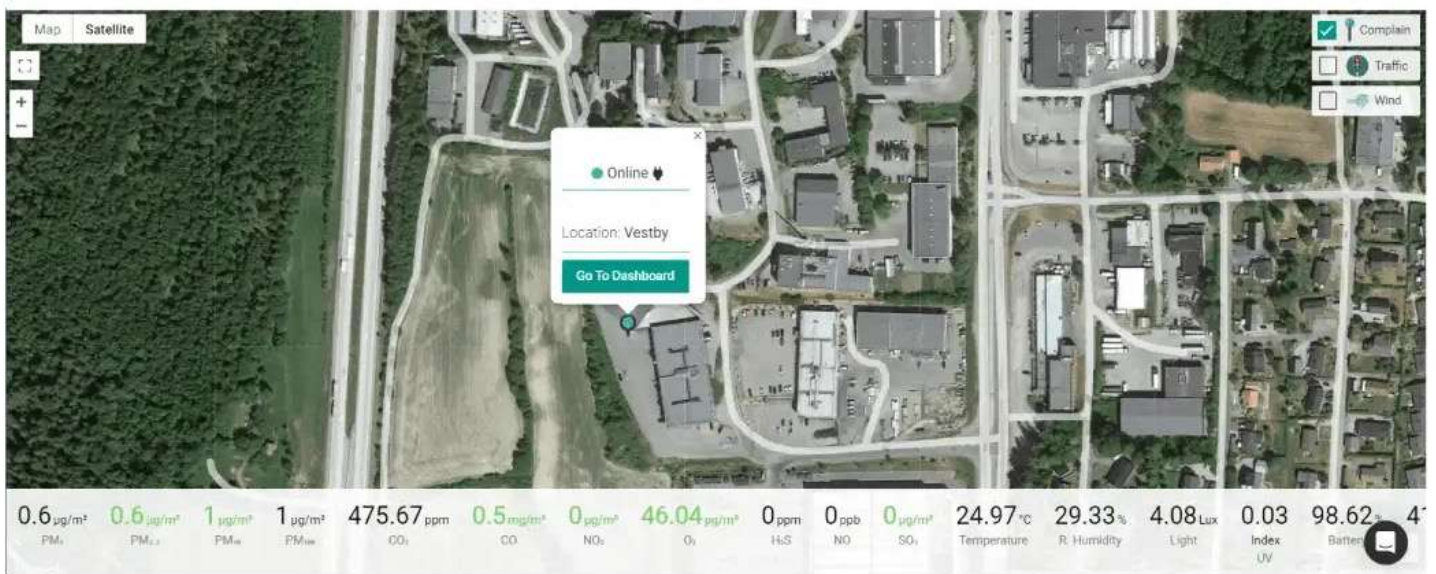
During the construction of a 4 km tunnel, Skanska intended to compare different explosives in terms of efficiency. But efficiency wasn't their only concern. Ensuring that the work environment remained safe during these tests was paramount. They aimed to minutely monitor the air quality post each explosive test, observing changes in the gasses released.

Specific Needs:

- An instrument designed for continuous monitoring of CO, CO₂, O₂, and NO_x.
- Reliable data acquisition spanning three months.
- An apparatus that would stand up to the rigours of the tunnel construction environment, ensuring accuracy in readings despite the harsh surroundings.

The Solution

Our interaction with Skanska started with a comprehensive analysis of their needs. Understanding the importance of the data they sought, we proposed an instrument crafted to endure the challenging tunnel environment. Not only was our instrument robust and accurate enough for the harsh environment inside the tunnel, but it also came at the most competitive price, which greatly appealed to Skanska. Before the final agreement, a Teams meeting was organised to offer Skanska a live demonstration of our product. The user interface and functionality of the instrument deeply impressed the Skanska team. Our responsive approach and the tool's advanced capabilities made the decision clear for them.



The Result

Skanska was endowed with a goldmine of data. The continuous and accurate monitoring ensured they could make insightful correlations and understand the explosives unprecedentedly. The tools we provided ensured consistent and accurate monitoring, laying a foundation for Skanska to make informed choices about the explosives used in their projects.

This collaboration wasn't merely about a transaction or a single project. It was about setting new industry standards. It underscored the importance of safety, accuracy, and cost-effectiveness, weaving them seamlessly.

Oizom is a company specialising in environmental monitoring solutions. They offer products to monitor air quality, weather conditions, and other environmental factors. Utilising advanced sensor technology and data analytics, Oizom aims to provide actionable insights for construction, industrial compliance, and community awareness. Their solutions can be applied in various sectors including government, industries, and community initiatives.