VAISALA

Weather & environment solutions for smart cities

What makes a city smart?

At its heart, having a smart city means increasing efficiency, productivity and improving citizens' wellbeing by using technology.

To make it work, a smart city plan includes innovation, participation, collaboration & coordination between all stakeholders, especially residents.

Smart technology includes digital solutions that integrate sensors, data and IT systems to solve real challenges and create sustainable cities that improve quality of life.

City challenges

Now more than ever, city authorities look to technology to solve current and emerging weather and environmental challenges.

Air quality   Street maintenance   Weather for drones

How can smart tech help?

Air quality management and forecasting

To improve air quality, operate smarter and more environmentally friendly by utilizing high-resolution air quality information.

• Compact air quality sensors complement an existing monitoring system
• High-resolution air quality modeling improves situational awareness
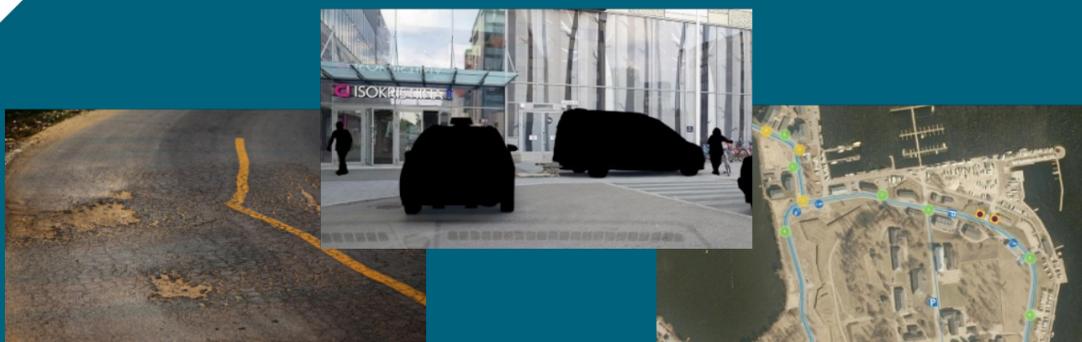• Hyperlocal air quality data enables new value-added services

Integrate Vaisala air quality sensors for the highest accuracy and access weather data anywhere with Vaisala Observation Network Manager NM10

Digital street maintenance

Visualize and manage your street network with AI-powered data collection and analysis.

• Pavement analysis to provide street network insights
• Data collection and reporting
• Anonymization to ensure data privacy
• Automatic road signs identification and classification

Collect and manage infrastructure data accurately and efficiently with Vaisala RoadAI

Weather for drones

Enable safe and efficient city drone transport based on accurate and reliable weather information.

• Plan your drone fleet journeys with weather nowcast & forecast
• Take off and land safely with hyperlocal weather sensor data
• Fly efficiently and safely above cities with wind lidar data

Combine Vaisala WindCube® Lidar™ with in-situ weather data to mitigate wind hazards

We can help you make your city more weather and environment intelligent. With Vaisala, you're supported by 80+ years of science-based experience.

Contact us to learn more about how our Smart City Weather & Environment Insights Platform can best support your community.

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Learn more
vaisala.com