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Monitoring in Harsh Conditions: No Infrastructure? No Problem!

Environmental monitoring doesn't stop where the road ends, and with Ecosystem Informatics Inc. (ESI), it doesn't have to. Whether it's a dusty mining pit, a wildfire zone, or a remote, infrastructure-free site, ESI's flexible and scalable technology is built to perform. From drone-mounted sensors to solar-powered stationary units and mobile deployments, ESI delivers real-time meteorological, air quality, greenhouse gas, noise, and vibration data, no matter how harsh the setting. With rugged hardware operable between -35°C and $+75^{\circ}\text{C}$, low power requirements, and connectivity options that include cellular, Wi-Fi, and satellite, ESI ensures that critical monitoring continues wherever it's needed most.

No matter how extreme the environment, ESI has you covered. From the dust and vibration of active mining sites to the remote corners of protected lands, our technology is designed to go wherever it's needed. In diverse operations, we deploy mobile, stationary, and drone-mounted sensors, to deliver reliable, real-time data in the most challenging conditions. Clients also rely on ESI's rugged, scalable systems to monitor air quality, emissions, and environmental health in areas where traditional infrastructure doesn't exist. Clients can also now benefit from ESI's regulatory noise monitoring capabilities.

About Ecosystems Informatics

ESI is an air monitoring informatics company dedicated to providing advanced AI-driven data and analytics solutions to help organizations monitor and improve air quality. ESI's multi-modal solution means that our customers can cover a very large area at a very low cost, with either terrestrial or aerial mobile platforms, complemented if required by a fixed platform. AI-driven self-calibration means that ESI can deliver continuous real-time measurements with its mobile platform, therefore making ESI the first to provide 3D mapping of air measurements. ESI works with governments, businesses, and industries to protect public health and promote sustainability through smarter, data-driven decision-making. It is FIWARE ready, easing the way for cities to get the data they need for confident and informed decision-making.

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