Environmental Monitoring

wanwave's environmental monitoring system offers a comprehensive solution for monitoring and managing environmental parameters, ensuring environmental compliance, and protecting ecosystems and natural resources. By deploying the system, stakeholders can enhance environmental stewardship, mitigate pollution, and safeguard public health and safety.

Key aspects of using wanwave's environmental monitoring system include:

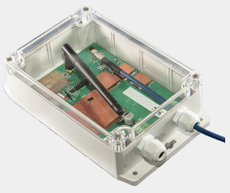
1. **Real-Time Monitoring:** **wanwave**'s environmental monitoring system continuously monitors key environmental parameters such as air quality and meteorological data in real-time, providing stakeholders with immediate insights into environmental conditions and trends. This real-time monitoring capability enables stakeholders to detect pollution incidents, track environmental changes, and respond promptly to emerging environmental threats or hazards.

2. **Pollution Detection and Mitigation:** **wanwave**'s environmental monitoring system enables pollution detection and mitigation efforts by detecting pollutants, contaminants, and hazardous substances in the air. This allows stakeholders to monitor pollution sources, identify pollution hotspots, and implement preventive measures to mitigate pollution, reduce environmental impact, and protect ecosystems and public health.

3. **Seamless Integration:** **wanwave**'s environmental monitoring system offers seamless integration with other environmental management systems, data platforms, and decision support tools. Integration allows stakeholders to centralize data collection, automate data sharing and analysis processes, and leverage advanced analytics and modeling capabilities to

Hardware Components Used in this Solution

METEOROLOGICAL ENVIRONMENTAL MONITORING STATION



WNG-20 NETWORK GATEWAY

About the wanwave Network
wanwave offers the first true end-to-end Massive IoT ecosystem comprising a highly efficient & secure communication protocol, and a wide range of end-devices to serve any application or use-case:
Learn more at https://wanwave.com.
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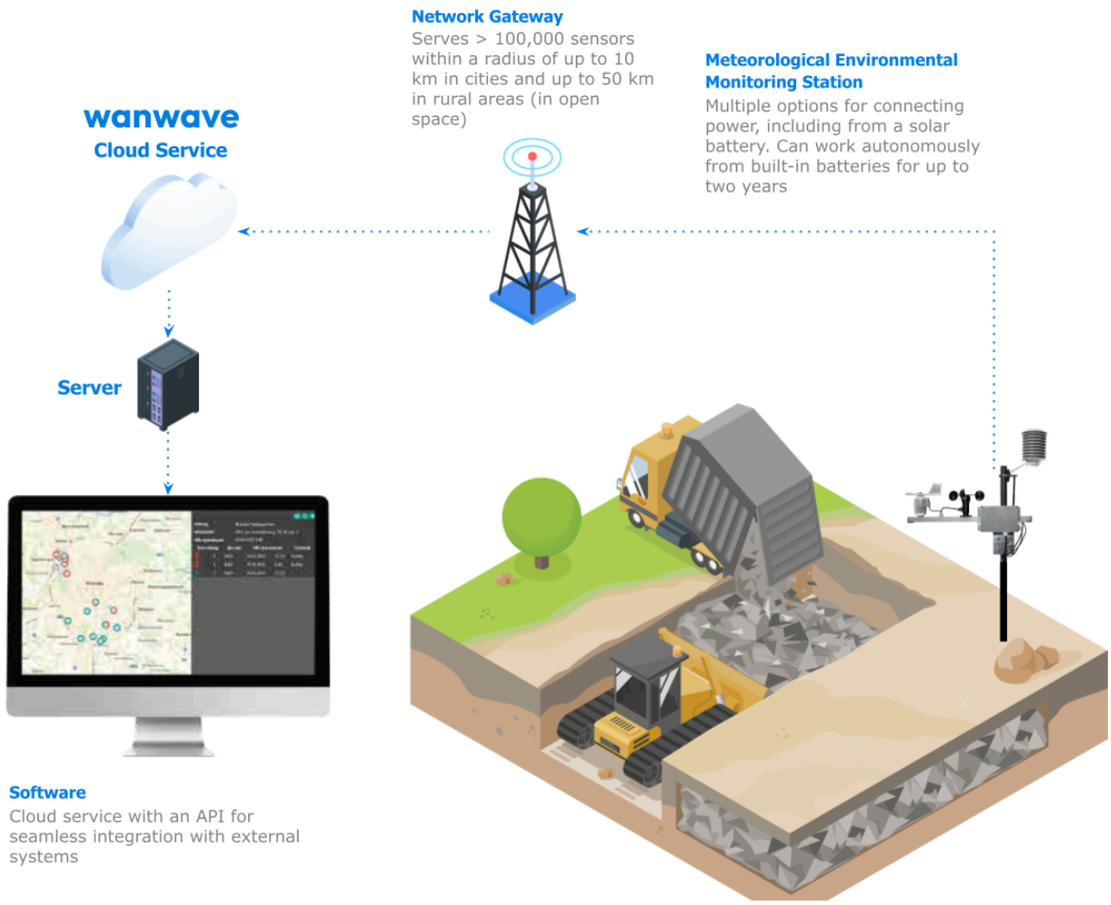
optimize environmental monitoring and management efforts. By integrating environmental monitoring systems with existing infrastructure and systems, stakeholders can enhance interoperability, streamline workflows, and improve collaboration.

Mode of Operation

wanwave's versatile monitoring station requires no setup or maintenance and is designed for all-weather performance. The station measures air temperature & humidity, atmospheric pressure, wind speed & direction, and gas impurities. The built-in battery is designed to support 2 years of operation when transmitting messages once an hour.

The transmitted information is received by the network gateways which automate the reception and transmission of messages between end devices and the **wanwave** server.



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