BitVivid
Analytics Redefined

Overview

A cloud-native solution that provides real-time monitoring of traffic hotspots, incidents, and road conditions, enabling authorities to respond quickly, manage traffic efficiently, and support road planners with actionable data.

Key Features

- Traffic Hotspot Identification – Real-time detection of worst-performing areas to prioritize interventions.

- Traffic Flow & Speed Monitoring – Continuous monitoring of traffic movement and average speeds on major arterial roads.

- Citizen-Enabled Incident Reporting – Reports from citizens with automated SOP triggering for command & control centers.

- Road Condition Detection – Mobile sensors detect speed bumps, potholes, poor road conditions, obstructions, and average speeds.

- Cloud-Native Architecture – Deployable on Kubernetes with RESTful APIs for seamless scalability.

- Hub-and-Spoke Sensor Communication – Open-standard communication using MQTT/Kafka for reliable data transmission.

- Daily MIS Reports – Generate actionable reports for road planners and traffic authorities.

Ideal For:
Smart cities, urban traffic authorities, highway management, and integrated command & control centers.

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www.bitvividsolutions.com

Traffic Hotspots & Incident Monitoring Solution

Real-Time Insights for Smarter Traffic Management