KINETIC® WEATHER

ENABLING WEATHER-RESPONSIVE TRAFFIC MANAGEMENT

OVERVIEW

Enhance road safety and traffic efficiency by incorporating live weather data into your Kinetic Mobility system with Kinetic Weather. This powerful tool gathers data from weather stations, sensors, and devices to enable proactive responses to adverse conditions.

When combined with other Kinetic Mobility modules, operators can automate critical weather-responsive traffic management strategies based on real-time conditions.

Possible responses can include:

- Displaying weather advisories on signs
- Adjusting signal timing and speed limits
- Disseminating traveler information via the web and apps
- Implementing active traffic and integrated corridor management

By seamlessly incorporating weather data, Kinetic Mobility ensures safer and more efficient travel, regardless of weather conditions.
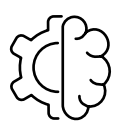
BENEFITS

- Automatically activate safety measures such as beacons, warning signs, and speed limit reductions during inclement weather to ensure road safety

- Optimize traffic flow and minimize disruptions by adjusting signal timings and providing real-time weather advisories to drivers.

- Seamlessly integrate weather data to anticipate and respond to adverse conditions, reducing the risk of accidents and improving overall travel experience.

Gain insights on real-time road conditions

Enable weather responsive traffic management

Automate decision response

IDEAL APPLICATIONS

Bring real-time weather conditions into Kinetic Mobility enabling proactive strategies to improve road safety and mobility.

Roadways and communities that can benefit include:

- Major highways, freeways, and interstates
- Corridors and regions prone to severe weather
- Urban areas prone to high traffic volume
- Mountainous areas and high-elevation roads
- Evacuation routes and critical transportation corridors

STANDARD FEATURES

- Gather and collect weather data
- View sensors on system-wide map
- Automatically detect potential roadway events due to inclement weather
- Filterable device list based on location or status
- Associate weather conditions with events
- Automate workflows based on configurable thresholds

ENVIRONMENTAL SENSORS

Integrate with your choice of sensors to enrich real-time situational awareness and traffic management, based on:

- Wind speed/direction
- Dew point
- Precipitation
- Temperature
- Visibility
- Pavement conditions (ice, temp, etc.)

COMMUNICATION PROTOCOL

NTCIP 1204

www.aicpa.org/soc4so

KINETIC®
MOBILITY

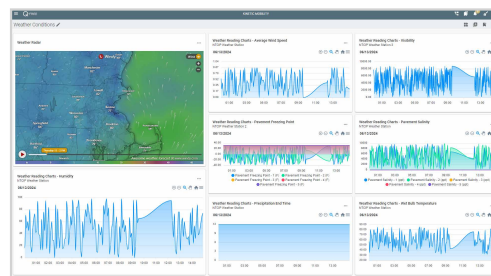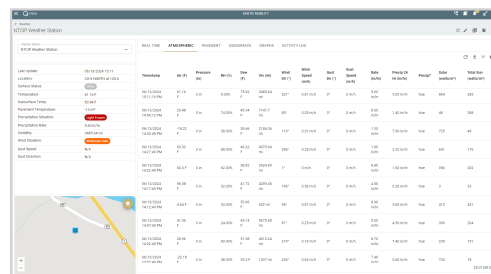**Unify your traffic management data, tools, and teams with Kinetic Mobility.**

Kinetic Mobility excels in signal and freeway operations, breaking down operational barriers for unprecedented coordination. Its modular design adapts to your needs, reducing congestion, optimizing traffic flow, and enhancing road safety.
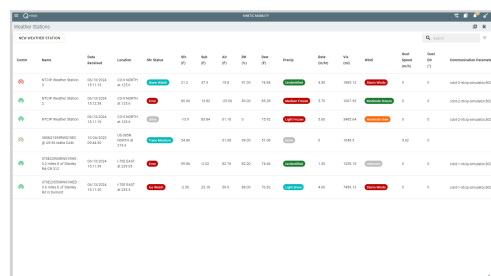
Contact us to learn more about our unified approach to traffic management.

Weather conditions workspace

Weather station with atmospheric reading history

Weather station device list

www.q-free.com | info@q-free.com

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