



# FLOODALERT™ DETECTION AND NOTIFICATION SYSTEM

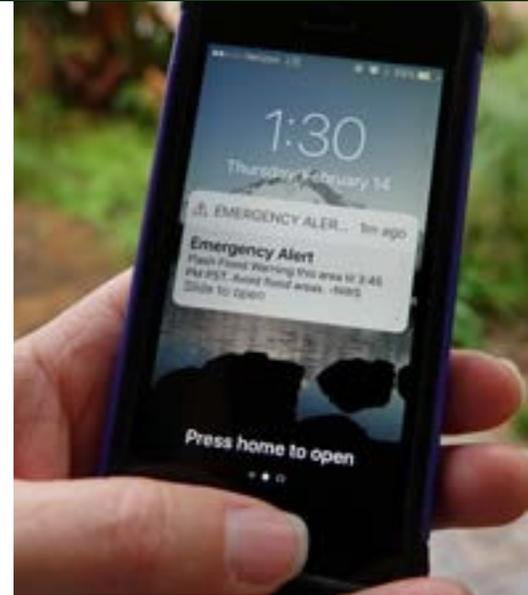
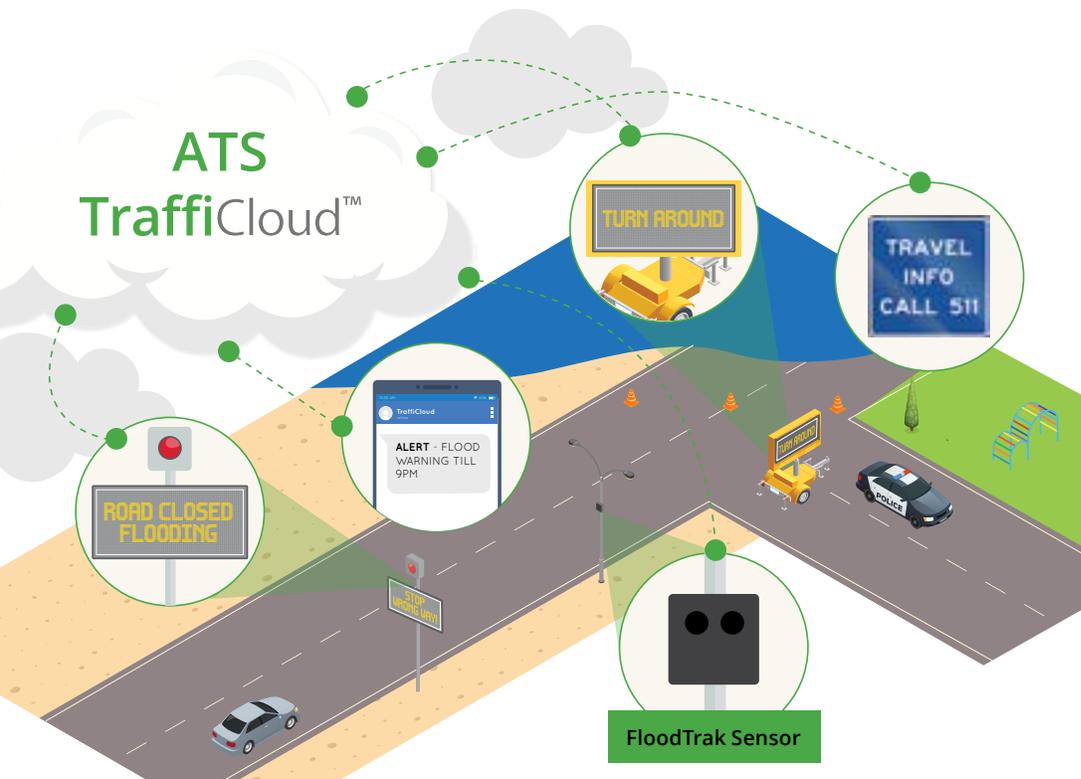
Proactive Unattended 24/7 Flood Detection and Notification

## OVERVIEW

Flooding is the second-deadliest type of weather in the U.S., and causes close to **\$8 billion in damage annually**. Part of the ATS suite of weather awareness solutions, the FloodAlert detection and notification system helps prevent flood-related traffic incidents caused by flooded roadways.

FloodAlert enables municipalities, departments of transportation, law enforcement and other entities to take proactive measures to keep the public safe and informed in flood conditions by sharing time-critical information:

- ✓ FLOOD WARNINGS
- ✓ ROAD CLOSURES
- ✓ ALL-CLEAR NOTIFICATIONS
- ✓ EMERGENCY ALERTS
- ✓ EVACUATION INSTRUCTIONS



## HOW IT WORKS

Lidar is used to sense the water level in a flood-prone area. The system automatically triggers your preset alerts and notifications when flooding begins to occur.

- ✓ Notify appropriate staff when water levels at each location approach and reach flood stage
- ✓ Push data automatically messaging on signage, turn on warning beacons, NOAA weather alerts, 511 state and regional alert systems, websites and social media networks. The system can also push data to the Waze Connected Citizens Program, and/or your existing systems
- ✓ Display warnings to drivers and suggest alternate routes using ATS InstAlert™ and/or SpeedAlert™ variable message signs located at or before key intersections
- ✓ Direct traffic flow without inconveniencing drivers, minimizing congestion caused by flooded roadways

The system is managed in **ATS TrafficCloud®** and hosted on **Microsoft Azure** for reliability and high-availability.

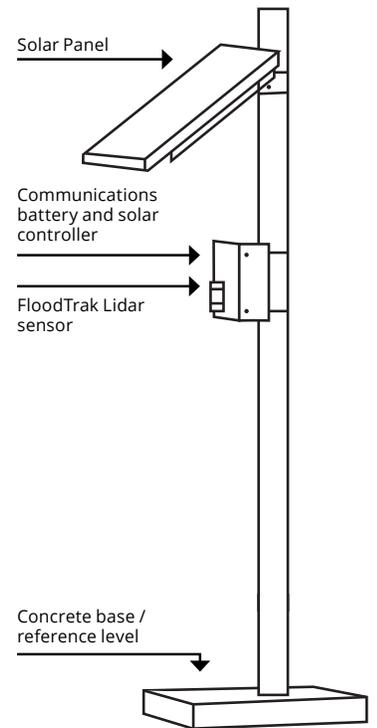
Each Flood Detection System unit is installed at locations identified to be flood-prone. Each unit supports a FloodTrak™ sensor, processor, cellular modem and battery or AC supply.

Once installed, the system is configured with a flood level threshold and a clear level threshold. The sensor continuously monitors the surface below it. If the level rises above the flood level threshold, the system signals TrafficCloud to send a Flood alert with the current water level. TrafficCloud continues sending Flood Status alerts

with updated water levels—every 15 minutes while the water stays above the flood level threshold.

Once the water drops below the threshold level, the Flood Status alerts stop and an All Clear alert is sent. Alert types can be configured individually in TrafficCloud to send as emails and/or text alerts to individual users in the same TrafficCloud account.

FloodTrak units can be solar powered for round-the-clock protection with little to no infrastructure requirements.



Flood Detection System Unit



Messages are created and saved in TrafficCloud

## For more information on the ATS FloodAlert solution:

Email [sales@alltrafficsolutions.com](mailto:sales@alltrafficsolutions.com)

Call ATS at 866.366.6602

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