

# Building an Alert System based on Police Scanners

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# Problem Statement

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Currently, FEMA identifies areas that require immediate attention (for search and rescue efforts) either by responding to reports and requests put directly by the public or, recently, using social media posts. This tool will utilize live police radio reports to identify hot spots representing locations of people who need immediate attention. The tool will flag neighborhoods or specific streets where the police and first-respondents were called to provide assistance related to the event.

# Overview

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What we wanted to do was create an alert system using data from police scanner to distribute alerts, based on location and type of alert, to subscribers via email.

# Where did we source our data

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Police Stations, Forums, Stringers, Scanners

Primarily Radio Report aggregators, such as Broadcastify and IncidentPage



# Complementary Data

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Weather Data

Earthquake/Tsunami warnings

Power Outages (not successful)

Traffic Data

# Explanation of the Program

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Scraping of IPN alert ticker(IPN)

Sent to Dataframe

Alerts are run through Darksky for weather data

Distributed to emails for those who subscribe to specific alerts for type and area

# The Program Itself

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Email Alert contains:

- Type, Location
- Current weather and advisories

## 1 Alarm Fire in Columbia, South Carolina

Alert: 1 Alarm Fire

City: Columbia

State: South Carolina

Address: 7425 Fairfield Rd

DSCR: Delayed - Heavy fire in a metal recycling center. Multiple master streams in operation.

## WEATHER

No Current Weather Alerts

Forecast: Clear

Nearest Storm: 116 Miles Away

Storm Direction: 42°NE degrees

Wind Speed: 6.44 MPH

Wind Gust: Up to 8.44 MPH

Wind Direction: 255°W degrees

Visibility: 10 Miles

Temperature: 88.97°F

# Subscription Program

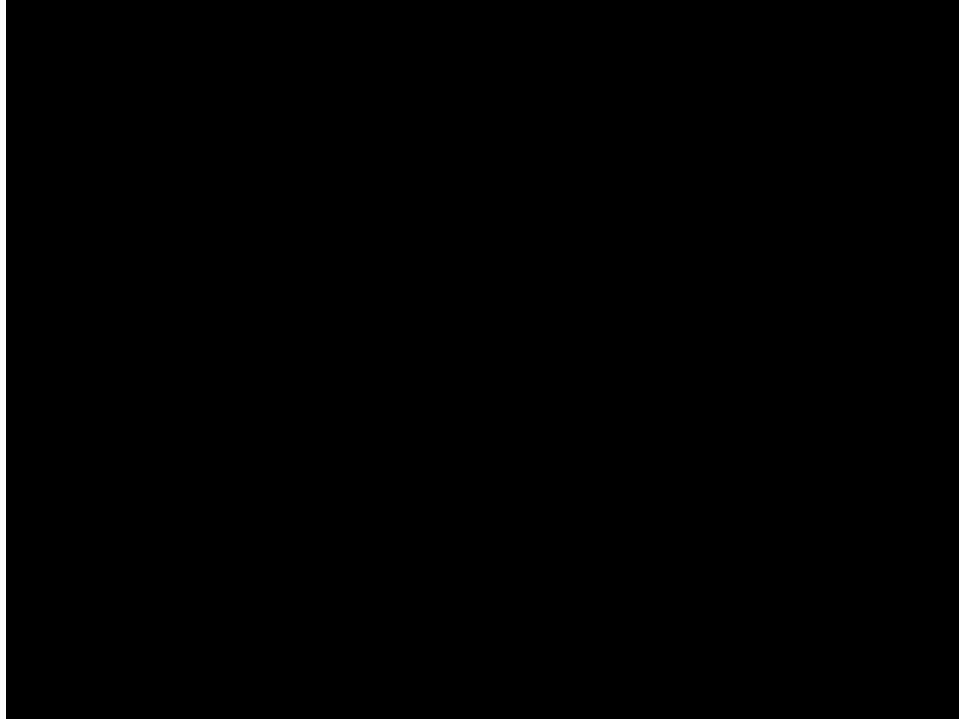
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- Sign up with email
- Choose cities/states/provinces to be alerted for
- Choose type of alerts to sign up for
- Alerts are emailed to you



# Video Demonstration

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# Next Steps

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- Unsubscription function, profile editing
- Speech to text functionality for alerts
- Getting more complementary data
- Build out the user interface