# Innovations in Multi-Modal AI Technology for Emergency Management

*March 2, 2023*

*Q&A*

**Question:** What are some examples of Data Sources aside from social media and news blogs?

**Answer:** Dataminr detects events in over 500K data sources that include Deep/dark web, public sensor data, public audio transmissions, public web, and public traffic cameras, among others.

**Question:** Are you aware of AI getting used for predicting potential cascading impacts during an incident like disruptions to critical infrastructure/services?

**Answer:** Yes! There is definitely research into using AI to predict different types of cascading failures.

**Question:** AI and ML are very good at finding patterns in data. How might this be used in USAR operations?

**Answer:** This is a very broad question, but in general, AI and ML can be applied anywhere where there are repetitive patterns and where predictions can be made based on data collected for those patterns.

**Question:** Can AI interpret the look or view azimuth, vertical angle, image extent, and/or scale from still photographs, video, or drone imagery?

**Answer:** Yes! AI can do a decent job of estimating distances and scale from images.

**Question:** Would AI be appropriate for sending out real time road closure info during a fire or flood incident?

**Answer:** Yes! In fact, Dataminr leverages AI to send out real-time road closures and other similar events during major incidents as this can be helpful for first responders and other organizations operating in the area.

**Question:** Does Dataminr have any methods to account for the inherent biases that arise when scraping social media posts (i.e., social media posters are more likely to be younger and have cellphone access)?

**Answer:** Part of what makes a real-time event detection system successful is not just AI models and domain expertise to detect and alert on events, but also to have a very large and diverse set of data to pull from. Dataminr pulls from over half a million data sources, some of which are social media, but also include news, blogs, sensor data, among a host of others. The diversity and scope of the data sources mitigates potential issues since different services have different user bases.