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How AEM is Building Weather-Resilient Communities

Escalating environmental risks

Spurred by climate change, the risk of major floods, severe weather, and devastating wildfires is increasing.

With so much destructive power, preparing for the worst and mitigating the damage these high impact events can and will create has never been more critical.

It takes much more than a general weather forecast to build resilient communities that can prepare for severe weather threats, absorb their impacts, recover effectively, and adapt to respond even better the next time. It requires actionable data sourced from localized sensors at critical risk locations to inform decision-making for emergency managers and business leaders.

AEM's holistic approach to resiliency

AEM provides an end-to-end suite of integrated services, sensors, and software that curate and combine data from a multitude of weather networks with predictive models and artificial intelligence (AI).

These innovative solutions deliver the actionable insights to better inform decisions and build weather resiliency for all stakeholders, from national and local government agencies to public works and infrastructure, first responders, and impacted communities and businesses. Our team specializes in matching customers with the tools, data, and support system they need to keep people safe while maintaining the highest possible degree of business continuity.
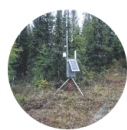
OUR PORTFOLIO OF SOLUTIONS HELP STAKEHOLDERS:

Design, install and maintain networks

Collect, analyze, and distribute data

Monitor real-time local conditions

Visualize and share data
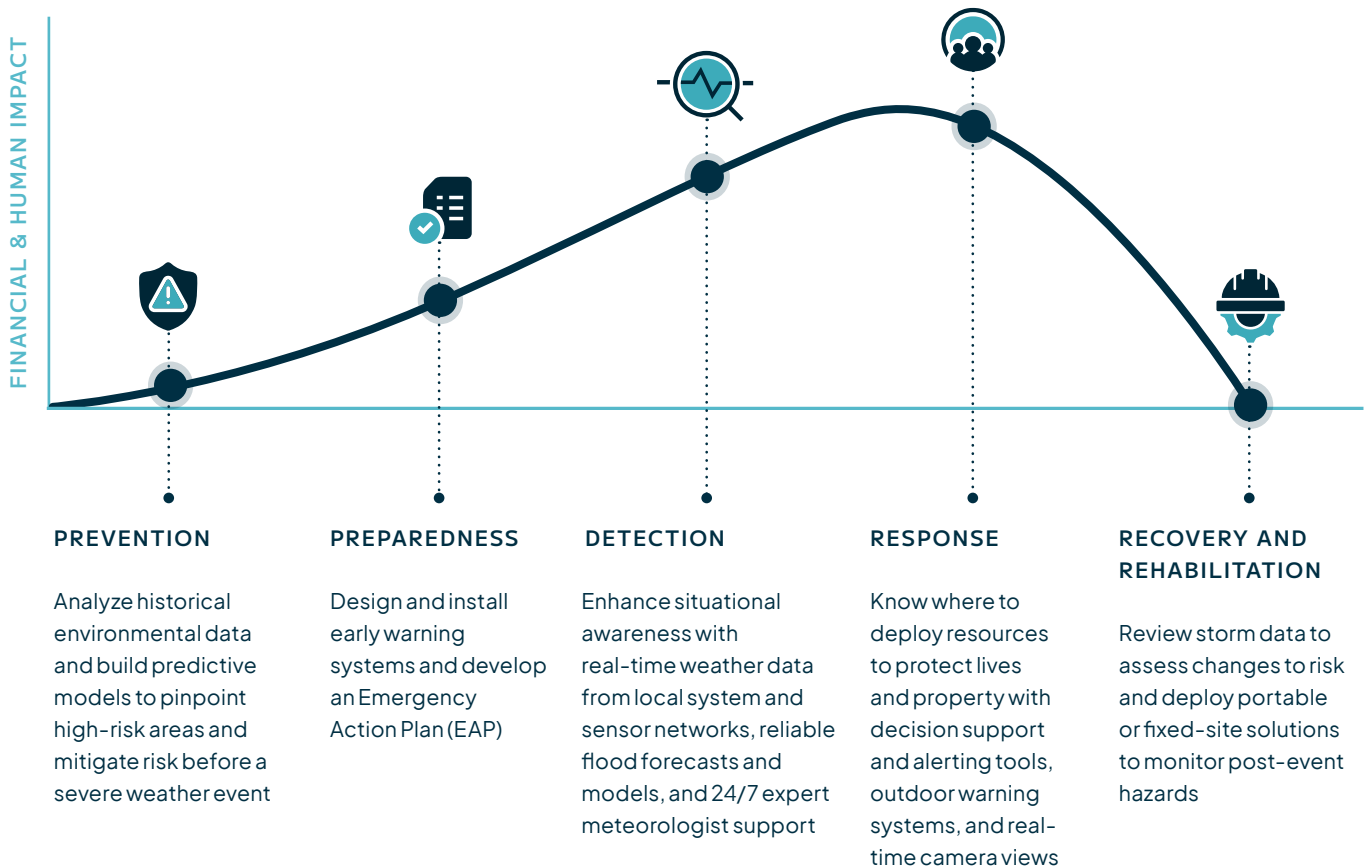
Deliver alerts to initiate action

Guide decisions with expert support

Our meteorological services packages include custom forecasting, weather intelligence dashboards, and on-demand consultations with professional meteorologists any day, 24/7. Our stations and interpretive tools help customers create a local weather network that's right-sized to their operations and application, and strengthens their ability to create a hyper-local forecast that's far more accurate than what's available through a standard weather service.

The severe weather event curve

A comprehensive severe weather management solution at any scale addresses every critical event phase to keep people and communities safe and functioning and minimize the financial and human cost of extreme weather events. AEM's solutions drive better decision making at each stage of the severe weather event curve.

FINANCIAL & HUMAN IMPACT

PREVENTION

Analyze historical environmental data and build predictive models to pinpoint high-risk areas and mitigate risk before a severe weather event

PREPAREDNESS

Design and install early warning systems and develop an Emergency Action Plan (EAP)

DETECTION

Enhance situational awareness with real-time weather data from local system and sensor networks, reliable flood forecasts and models, and 24/7 expert meteorologist support

RESPONSE

Know where to deploy resources to protect lives and property with decision support and alerting tools, outdoor warning systems, and real-time camera views

RECOVERY AND REHABILITATION

Review storm data to assess changes to risk and deploy portable or fixed-site solutions to monitor post-event hazards

Survive and thrive

At AEM, building resilient communities is what we do. We're proud to provide weather insights to more than **6,000 customers** and **350,000 users across the globe**. Our innovative solutions combine data and technology to help businesses and communities prepare, forecast, and detect extreme weather events, increase lead time for emergency officials and first responders, and improve risk assessment to decrease the impact of weather events on their communities.

Contact us at **info@aem.eco** to learn more about how we can help you build resiliency.