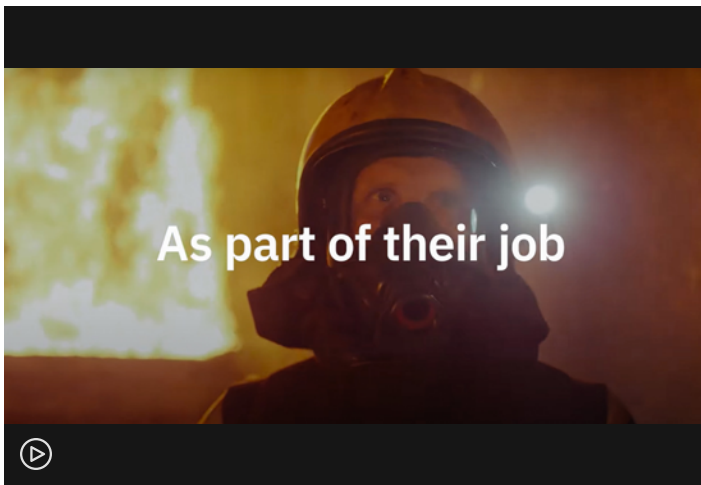


Disaster response and resiliency

Natural disasters can take lives, cause grief, and upend communities for years. IBM works with communities to address natural and man-made disasters including hurricanes, floods, wildfires and extreme weather influenced by climate change.



2019 Call for Code winner Prometeo

IBM believes that technology can play a role in mitigating the challenges presented by natural and man-made disasters. For example, when the Category 5 Hurricane Dorian hit in the fall of 2019, United Way Worldwide activated its Cognitive Automated Response Learning Assistant, developed with IBM, in key Southeastern states, enabling residents to get vital information faster. In addition, the nonprofits Day One Disaster Relief and Good360 were able to allocate resources more effectively by using IBM's Operations Risk Insights With Watson tool, which provides a dashboard of real-time insights to improve logistics. In Japan, the government recognized IBM for deploying the Disaster Management Information System after Typhoon Hagibis.

IBMers are quick to serve their communities in the wake of an unexpected catastrophe. For example, IBMers were given time off to help communities affected by wildfires in California in the fall of 2019. IBM also deployed employees to advise on the reconstruction of the fire-ravaged Notre Dame Cathedral in Paris, and the Indonesian government recognized the IBMer responsible for a system of seismic sensors that will soon be deployed in that country to help predict and mitigate earthquakes and tsunamis. For six major disasters around the world in 2019, IBM provided technology and services with a market value of \$1.9 million.

Call for Code is IBM's \$30 million, five-year initiative to brainstorm, develop and deploy ideas for mitigating natural disasters. IBM and non-IBM programmers worldwide devise solutions that use cloud, Internet of Things, and artificial intelligence technology to improve resilience against disruptive events. For example, a "mesh" disaster response network — a concept conceived in 2018, and which allows people to relay messages when regular communications are disrupted — was prototyped and tested in 2019. The theme for 2019, which saw more than 180,000 developers from 165 nations donate talent, was again natural disasters, with an emphasis on the improvement of individual health and community well-being. The 2019 winner was Prometeo, an AI-based platform to monitor firefighter health and safety in real time. Learn more at developer.ibm.com.