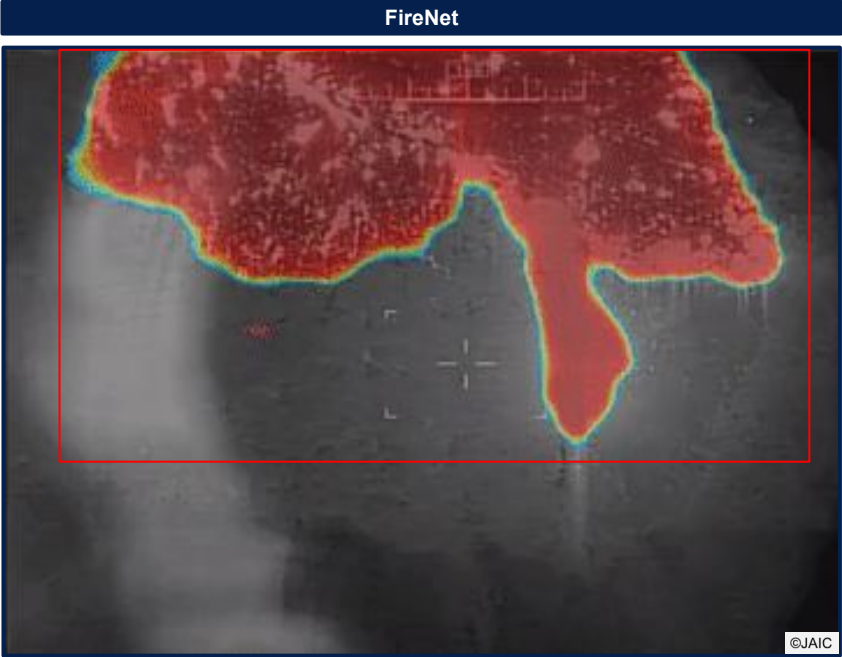


Operational Use Case 1: Wildfire Mapping

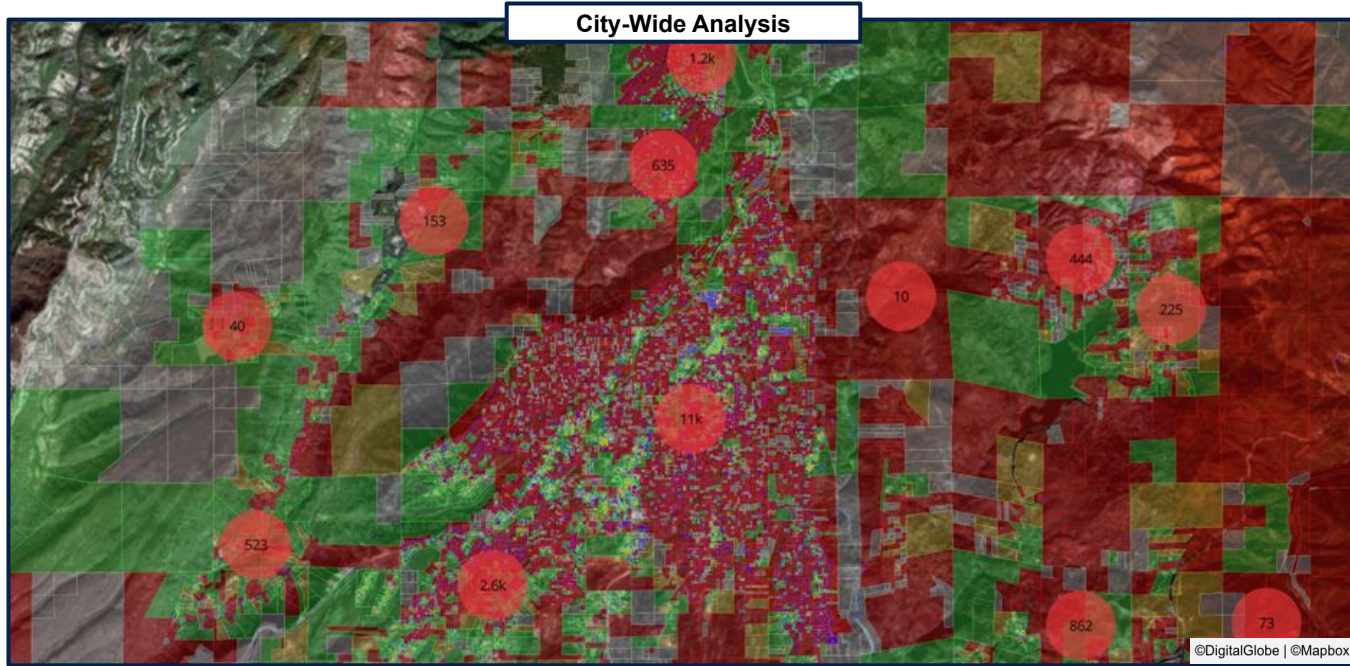
- **Background:** Hired to support the Humanitarian Assistance & Disaster Response (HADR) National Mission Initiative
- **CrowdAI Solution:** Built FireNet, a real-time wildfire segmentation model in use today to help fight fires in California



A diagram titled "Solution Highlights" showing three key capabilities. On the left, there are two images: the top one shows a map with several red fireline segments and labels for acreage (572 Acres, 715 Acres, 11006 Acres, 2430 Acres, 429 Acres, 2716 Acres, 715 Acres) and a "©JAIC" logo; the bottom one shows a person in military uniform using a tablet, with a computer monitor in the background displaying a map. On the right, a light blue box contains three bullet points: "Real-time fireline detection", "Automated map generation", and "Mobile situational awareness". Arrows point from the top image to the first two points and from the bottom image to the third point.

Results from Disaster Mapping: Camp Fire, CA 2018

Model output provides quantities of damaged structures overlaid upon analysis of burnt vegetation, according to AI-derived analysis of satellite imagery



Value: Rapidly identify areas hardest hit by disaster to marshal and deploy response teams through mapping at scale

Results from Disaster Mapping: Hurricane Michael 2018

Model output provides quantities of damaged structures, according to AI-derived analysis of satellite imagery



Value: Rapidly identify areas hardest hit by disaster to marshal and deploy response teams through mapping at scale

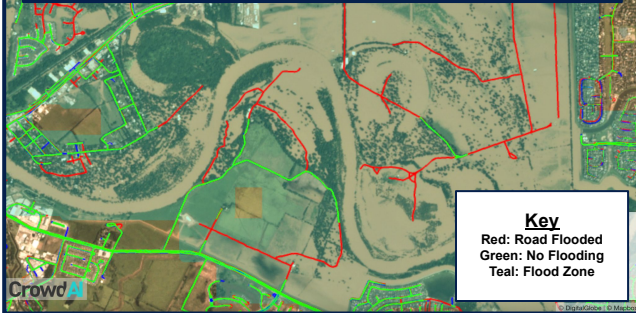
Operational Use Case 2: Mapping of Fire Defensible Zones

Value: Understand operations environment before fire strikes; identify high-risk areas and take preventative actions

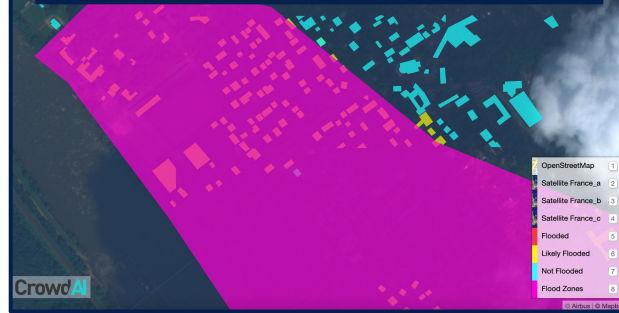


Disaster Response Globally

Hurricane Harvey Road Flooding (Huston, TX, USA)



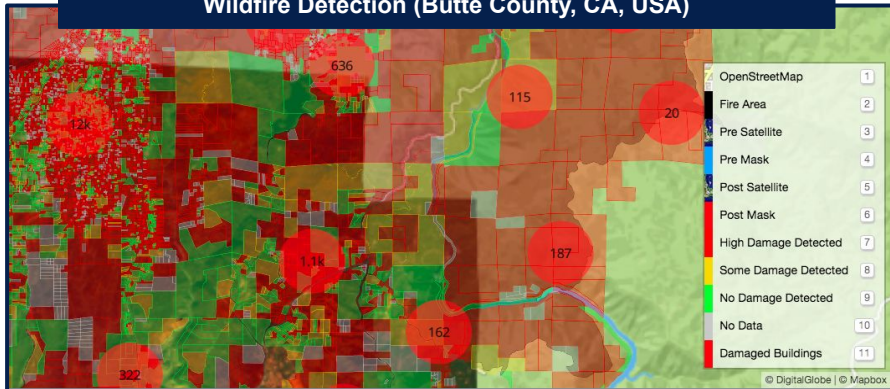
Loing River Flooding (France)



Drought Detection in River (Victoria, Australia)



Wildfire Detection (Butte County, CA, USA)



Hurricane Damage (San Juan, Puerto Rico)

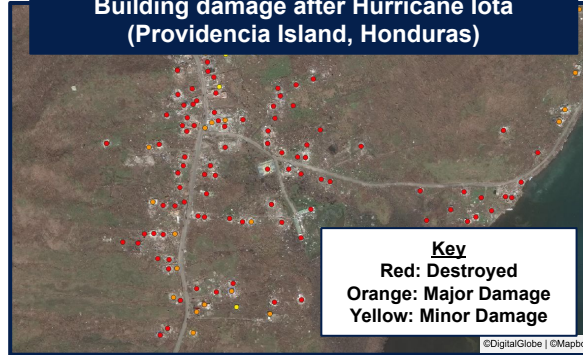


Disaster Response Globally

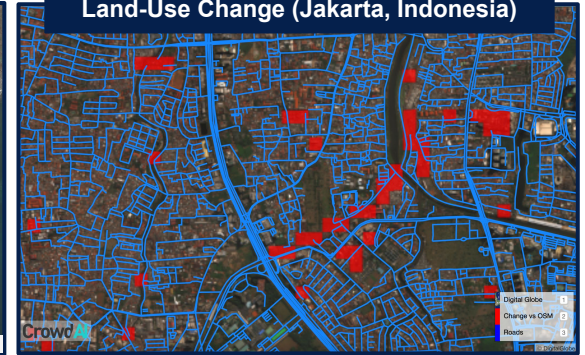
Destruction (Syria)



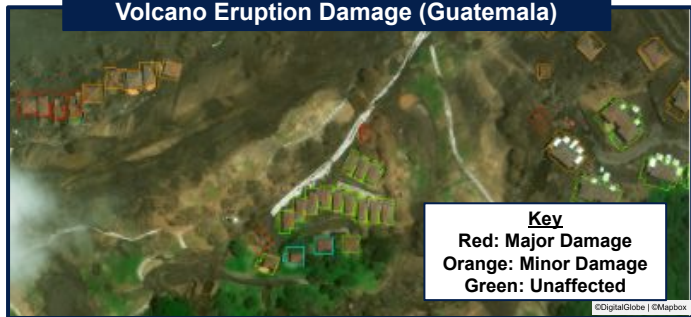
Building damage after Hurricane Iota (Providencia Island, Honduras)



Land-Use Change (Jakarta, Indonesia)



Volcano Eruption Damage (Guatemala)



Crop Detection (Kenya, East Africa)



Tsunami Damage (Palu, Indonesia)

