

HARNESS THE POWER OF ENVIRONMENTAL RISK VISUALIZATION

Recent dramatic shifts in climate continue to increase the likelihood of natural disasters. In 2022 alone, the US experienced 18 separate billion-dollar weather disasters due to ongoing climate change. Of particular note are the rising cases of floods. Specifically, inland flooding as a result of tropical storm surges is the second most frequent natural disaster type and has resulted in damages exceeding \$177.9 billion to date¹.

To scale at pace with these escalating risks, JTI has developed a more modern and intuitive inundation mapping solution. **Touch Interactive Modeling, or TIM** (Pat. Pend.), is a touch-enabled augmented reality (AR) solution designed to enhance the form, fit, and function of existing inundation map models. Using a touchscreen or mobile device, customers can zoom in on a particular location—whether it be a state, county, city, town, or even neighborhood—and both visualize and interact with the potential impacts of floods in any given environment.

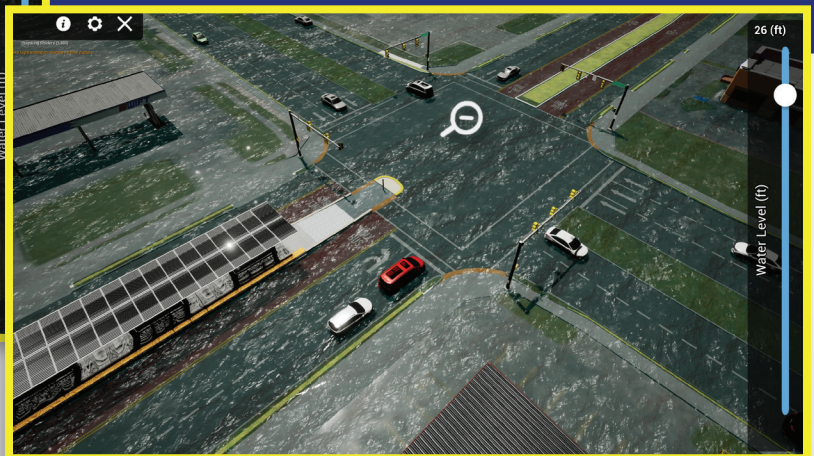


Based on location, our XR Engineers design and develop detailed true-to-life 3D renderings of buildings, houses, streets and even vehicles and people to accurately capture and measure impacts to both life and property. TIM is configured to use at-scale, integrated topography and digital terrain data from USGS, FEMA, and Google Earth Engine. It can also leverage location-specific insights from Gage Station Sites, including rainfall amount and water level data across low-lying bayous and tributaries.

¹ NOAA, "2022 U.S. Billion-Dollar Weather and Climate Disasters in Historical Context," www.climate.gov.

The benefits of TIM are multi-fold. As an Environmental Risk Visualization (ERV) tool, TIM can be tailored to not only capture and simulate the effects of floods, but also other natural disasters such as wildfires, earthquakes, and even tornadoes. Using TIM, state, county, and local emergency management agencies and staff can:

- ✓ Facilitate enhanced situational awareness and preparedness through scenario-driven 3D AR visualizations that mimic the effects of natural disasters on environments, persons, and property.
- ✓ Inform environmental and ecological risk analyses and assessments through spatially accurate digital topographic and terrain models that include low-lying zones and hazard areas.
- ✓ Develop strategic emergency action plans based on real-time, pattern-driven forecasting of the sequential and incremental impacts of a natural disaster across both populated and unpopulated locations.



Depending on each customer's unique needs, TIM can integrate with state, city, and county risk management and warning systems and convey real-time forecasting and potential loss estimates for a wide array of scenarios across multiple locations.

Contact us at info@justtouchinteractive.com or call (833) 587-8868 for a free demo today!