Storm Crusaders

Real World innovation poster

City: Slidell

State: Louisisana

Country: United States

ROV TRITON

seaperch

WHY IT'S DANGEROUS FOR HUMANS:

Toxic chemical exposure

Near-zero visibility

Sharp metal + debris

Risk of entanglement

WHAT THE ROV WOULD DO:

Maps toxic zones

Finds leaks

Sends live video

Assists in repairs

Real World Scenario

In theory, if a cargo train carrying industrial chemicals derails due to a weakened bridge collapsing into a shallow marsh, toxic substances would leak into the water. These chemicals react with saltwater and form invisible, hazardous clouds near the seafloor. This creates a dangerous environment with low visibility, poisoning risks, and sharp debris. An ROV can safely navigate these conditions to locate leaks, map hazards, and perform repairs while operators remain at a safe distance. One example of this happening in the real world is when a train derailed near Schreiber, Ontario more than 100 years ago. According to reports, the train flew off the tracks after hitting a boulder close to Mink Harbour in June, 1910.

HOW IT KEEPS PEOPLE SAFE:

No human divers needed

Controlled remotely

Can enter hazardous areas

Reduces injury risk