

# Technology & Innovation in Disaster Response

- 1. How can we improve the uses of drones during natural disaster events?
- 2. How can we use satellite imagery to locate missing people during floods?
- 3. How do we use Natrual Disaster

  Response techniques to design a realistic

  Zombie Video game?
- 4. How can IT systems and applications help families find family members and stay safe during a natural disaster?
- 5. How can AI be used to predict, detect and prevent natural disasters and aid in evacuation planning

# 💣 Engineering & STEM Application 🧳

- 1. How can STEM be used to engineer better defense systems against disasters?
- 2. How can students use engineering to create cost-effective disaster solutions?
- 3. How can solar trailers be optimized for disaster recovery?
- 4. How can communities use green energy to support recovery efforts?

# 🛔 Healthcare & Emergency Services 🛔

- 1. How can hospitals prepare for mass casualty events during disasters?
- 2. How can mobile clinics provide healthcare in rural areas post-disaster?
- 3. How can mental health support be improved for disaster survivors?
- 4. How can blood donation systems be optimized for emergencies?
- 5. How can pediatric hospitals respond to sudden surges in patients?
- 6. How can healthcare systems better support disabled individuals during evacuations?
- 7. How can local entities (business, individuals) prepare for and support the community in a disaster?
- 8. How can medications be provided for displaced persons after a disaster?
- 9. What are ways to streamline/improve mass casualty/disaster resonpses within a hospital?
- 10. How can we model Cholera outbreaks after disaster events through DNA screening for bacteria in water?

#### 🔥 Climate & Environmental Resilience 🖖

- 1. How can communities prevent wildfires using low-cost technology?
- 2. How can we mitigate the effects of climate-related disasters like heatwaves?
- 3. How can we reduce flooding levels in highrainfall areas?
- 4. How can we prepare for droughts using budget-friendly solutions?
- 5. When disaster stikes, how can we support the well being of ecosystems (endangered species, keystone species, vital resources/agriculture) and its impact on society?

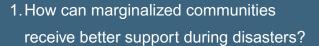
# 🔞 Global Coordination & Policy 🔕



- 1. How can governments aid other countries during disasters?
- 2. How can international organizations coordinate disaster response?
- 3. How can we learn from other countries' disaster management strategies?
- 4. How can we reduce the long-term impact of hurricanes on housing?

# 🔀 Communication & Alert Systems 🚨

- 1. How can communities improve disaster alert systems in rural areas?
- 2. How do response groups coordinate plans and maintain/sustain effective communication in a natural disaster?



- 2. How can low-income communities improve their disaster preparedness using affordable and accessible technology funded by the government?
- 3. How can rural communities in Georgia receive high-quality health care through telemedicine or mobile clinics following a natural disaster?
- 4. How can healthcare systems and community organizations better support mental health recovery after natural disasters, particularly in under-resourced areas?
- 5. How can we design effective disaster preparedness and response solutions for animal shelters like Furkids Atlanta, ensuring the safety of animals and staff during emergencies?
- 6. How can we reunite animals lost during disasters with their owners?
- 7. What transportation options can be developed for members of a community that do not have access to reliable methods of evacuation either before or after disasters
- 8. What community-sponsored initiatives can we create that improve the material conditions of vulnerable communities facing natural disasters?
- 9. How can we end bias in disaster mitigation and recovery policies? / How can we remove gender bias that leads to unequal preparedness?



# Section Education Education Education Section Section

- 1. How can schools educate students about disaster preparedness?
- 2. How can communities be trained to use local resources during emergencies?
- 3. How can we create engaging websites to educate about disaster response?
- 4. How can volunteers be better supported and recruited for disaster relief?
- 5. How can communities better prepare emotionally for sudden disasters?

### 🏲 Food, Water & Resource Distribution 🏲

- 1. How can communities ensure access to clean water during disasters?
- 2. How can food be distributed to isolated communities during emergencies?
- 3. How can baby formula and essential supplies be sourced during crises?
- 4. How can community gardens support food security during disasters?
- 5. How can nonprofits deliver sanitary food considering dietary restrictions?

### Infrastructure & Engineering Solutions

- 1. How can buildings be designed to withstand earthquakes affordably?
- 2. How can communities reinforce homes against hurricanes and floods?
- 3. How can schools be better shelters during tornadoes and earthquakes?
- 4. How can cities rebuild after hurricanes while limiting spending?
- 5. How can communities prepare water sources to survive hurricanes?
- 6. What natural processes can be implimented to mitigate dangers from natural disaters?