

# Choose your best "How Might We" Ques

Share the top 5 brainstorm questions that you created and let the group determine where to begin by selectin one question to move forward with based on what seer to be the most promising for idea generation in the are you are trying to impact.

① 10 minutes

#### **QUESTION**

How might we... [insert problem statement here]?

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## **Brainstorm solo**

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

① 10 minutes

#### Person 1

Al methods offer new opportunities related to applications in, for instance, observational data preprocessing as well as forecast model output post processing.	Integrating frontier technologies including artificial intelligence into existing emergency systems can harness the potential of existing data streams and improve hazard mitigation and disaster management.	artificial manageme for disaster respond has proven effective in many natural disaster around the world
scientific advances in robotics research are moving the technology from predictable spaces ike production lines into disaster zones.	after earthquakes accidents avalanches or explosions robots can take the place of their human teammates cutting risk to human life and helping boost the changes of rescuing victims.	artificial intelligence makes it possbile for machine to learn from experience,adjust to new inputs perform human like task
Most AI examples that you hear about today - from chess-playing computers to self -driving cars-rely heavily on deep learning and natural language processing	Al allows organizations to make better decisions,improving core business processes by increasing both the speed and accuracy of strategic decision making processes	Artificial intelligence in particul machine learning is playing in increasing important role in disaster risk reduction -from forecasting of extreme events at the development of hazard mato the detection of events in retime the provision of situational awareness and decisions.

## Person 2

IOT systems are expected to successfully del with disaster management through accurate predictions preparedness and early warning signs	deployment of advanced IOT solutions will help us broaden our reach in remote areas and will assess the damage and further repair it -within no time	India has witnessed tangible results with the help of IOT ,states like odisha face deadly floods and cyclones ,washing away villages and destroying the state infrastructure on yearly basis
IOT devices and sensors can collect near real time data on things like water levels ,volcanic activity,and barometric readings	sensors can detect wildfires tornadoes,cloudbursts, volcanic activites earthquake etc and send early warning	Al systems can be trained with the help of seismic data to analyze the magnitude and predict the location of earthquakes and aftershocks,thus saving million of lives
Machine learning can greatly help in emergency and disaster management efforts	The scientists are using machine learning to examine satellite images of Earth's surface in order to detect any changes that could indicate the onset of natural disaster	All around to the world we use sensors to monitor for natural disasters

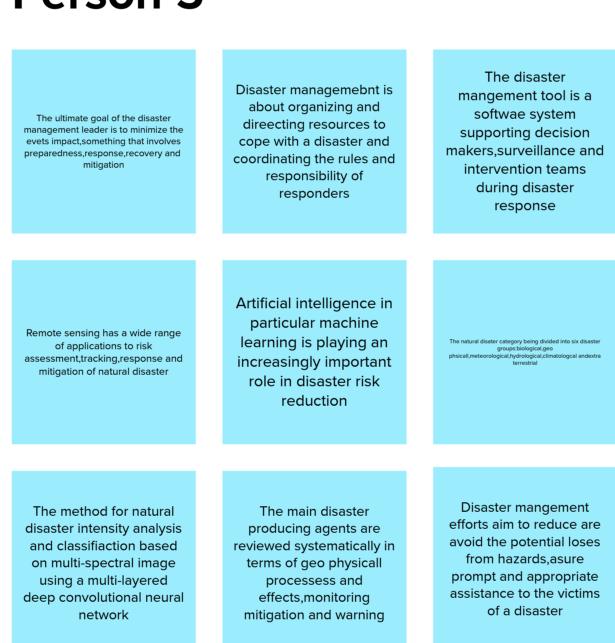
## Person 3

Artificial inteligence models have shown remarkable success and superiority to handle huge and nonlinear data owing to their higher accuracy and efficiency	It is making them perfect tools for disaster monitoring and management	The new methods include the use of artificial intelligence which given its ability to anticipate future events
•		
It could make a huge difference and help limit the human andmaterial costs of such disasters	The specific aim of overcoming this problem,a group of researches at stanford university has developed a new machine learning algorithm named earthquake transformer	Various machine learning algorithms can be employed in such cases to make fast and reliable decisions
The various ML algorithms that can be used for disaster and pandemic manageent	seismic sensors(seisometers)and vibration sensors(seismoscopes) are used to monitor for earthquakes	Disaster education aims to provide knowledge among individuals and group to take actions to reduce their vulnerability to diasters

## Person 4

To monitor earthquakes, scientist use seismographs	Global navigation
to detect ground shaking and can use a Gutenberg Ricther daigram to predict the magnitude and frequency of future earthquakes	satellite system data with Al,scientists have been able to predict tsunami amplitudes without characterizing the triggering earthquakes
The advantage of emote sensing include the ability to collect information over large spacetial areas	Remote sensing GIS technology provides the exact position of the spacial data of historical sites
At present, there are still gaps in the literature regarding real time natural disaster recognition	the computer model is updated every 12 hours with the latest satellite data and observations,thereby allowing scientists to issue forecasts and warnings
	and can use a Gutenberg Ricther daigram to predict the magnitude and frequency of future earthquakes  The advantage of emote sensing include the ability to collect information over large spacetial areas  At present, there are still gaps in the literature regarding real time natural

### Person 5





# Brainstorm as a grou

Have everyone move their is template and have the team group them by thematic topi that arise. Encourage "Yes, a the way.

① 15 minutes