

Boreowell Rescue Operation: A Robotic Intervention for Safe and Swift Extraction



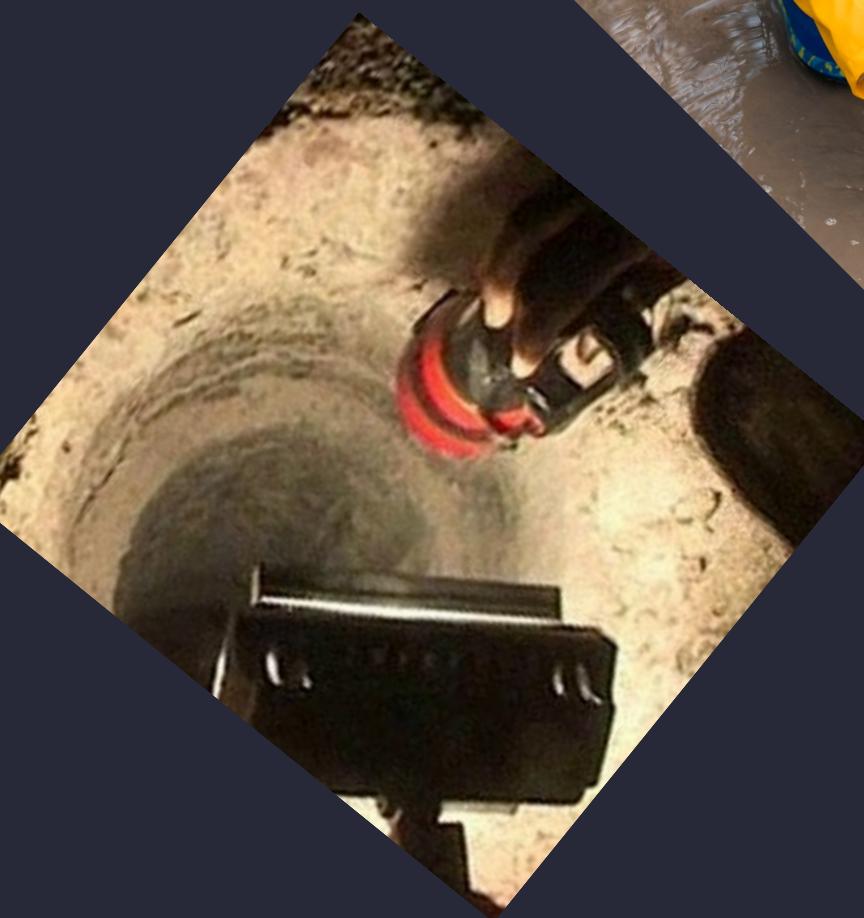
Introduction

This presentation explores the use of robots in borewell rescue operations. With the increasing number of borewell accidents, this technology can provide a safe and swift solution.



Borewell Accidents

Borewell accidents are a major concern in India, with many children falling into uncovered borewells. Traditional rescue methods can be slow and risky. Robotic intervention can provide a safer and faster solution . Across India 33Million borewells are constructed.



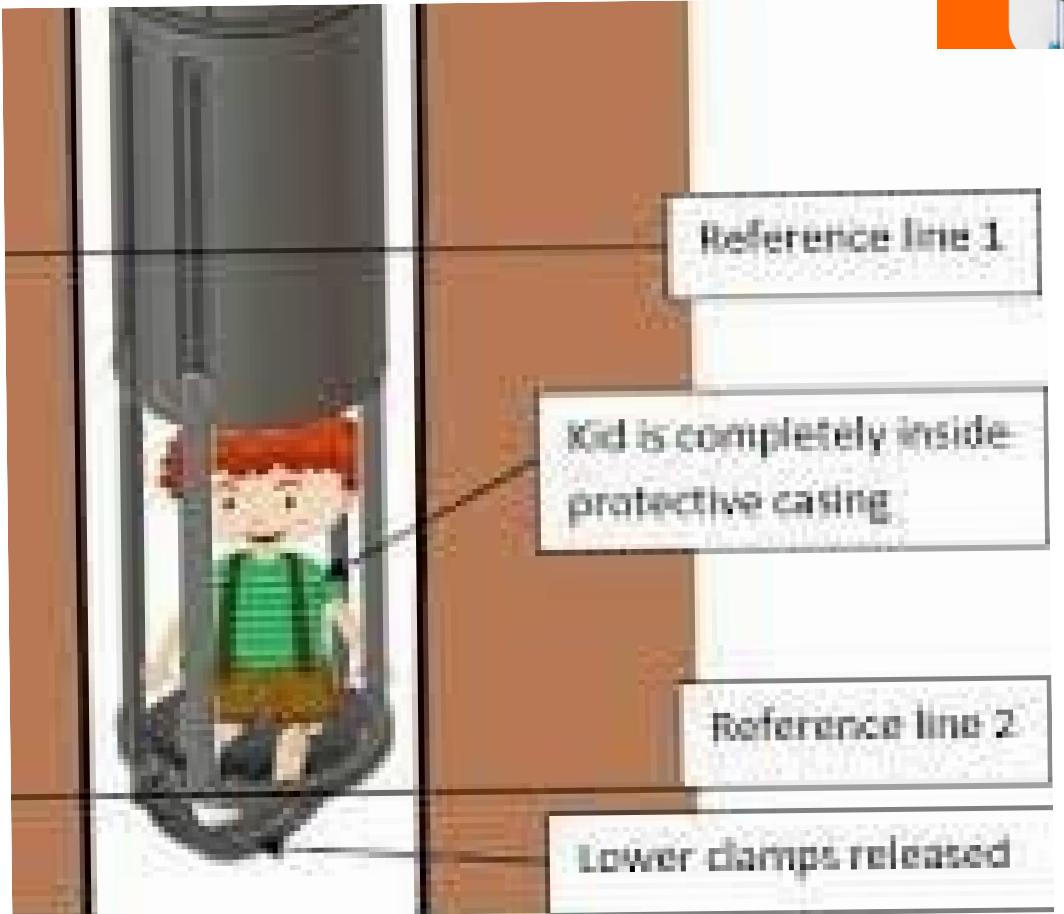
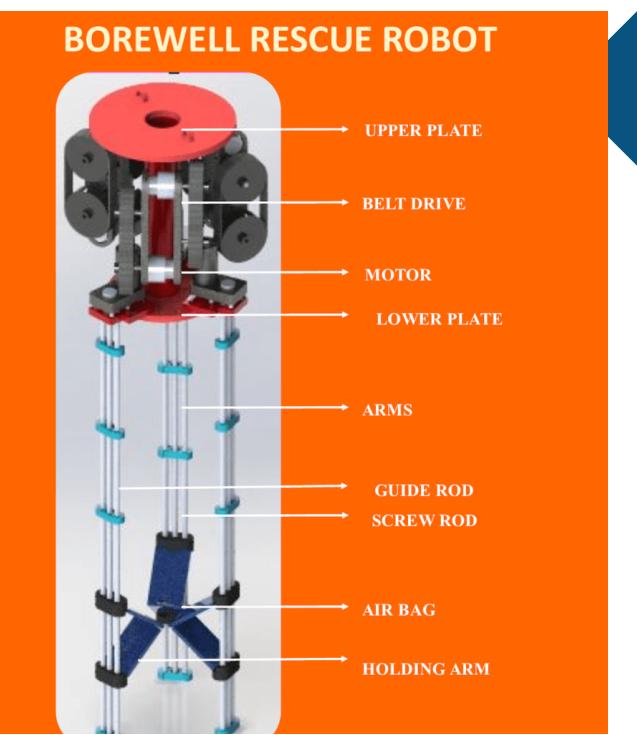
Robotic Intervention

Robots can be used to safely extract individuals from borewells. They can navigate narrow spaces and unstable terrain, reducing the risk of further injury. This technology can save lives and provide peace of mind to families and communities.



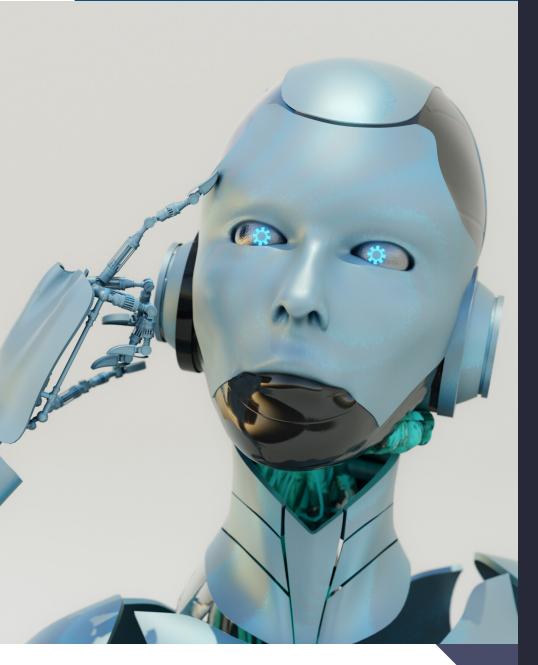
Components

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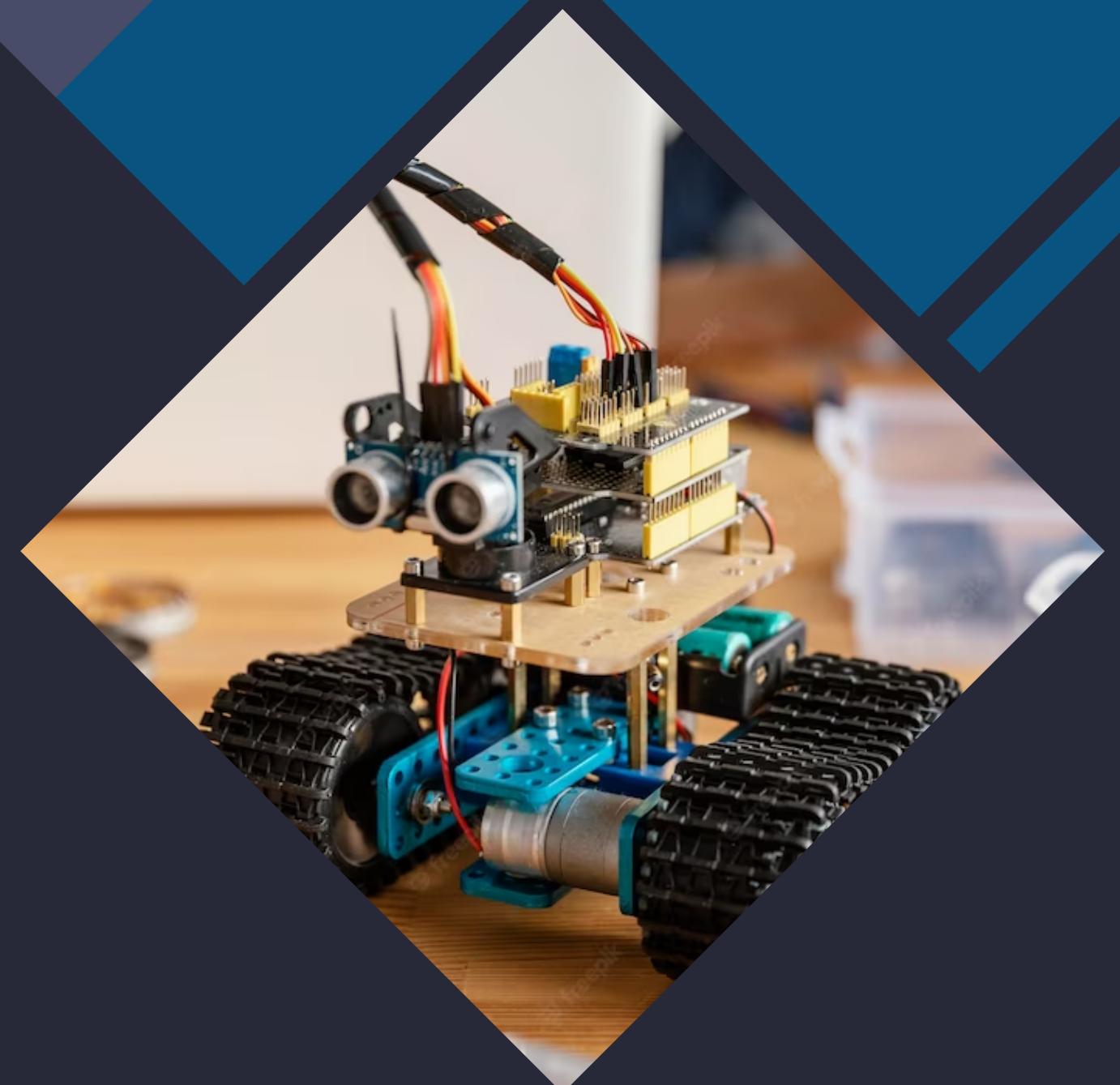
Applications of Robotic Intervention

Robotic intervention can be used in a variety of borewell rescue scenarios, including deep and narrow borewells. It can also be used in other rescue operations, such as collapsed buildings or landslides.



Types of Robots

There are several types of robots that can be used in borewell rescue operations, including ground robots, aerial robots, and snake robots. Each type has its own advantages and can be used in different scenarios.





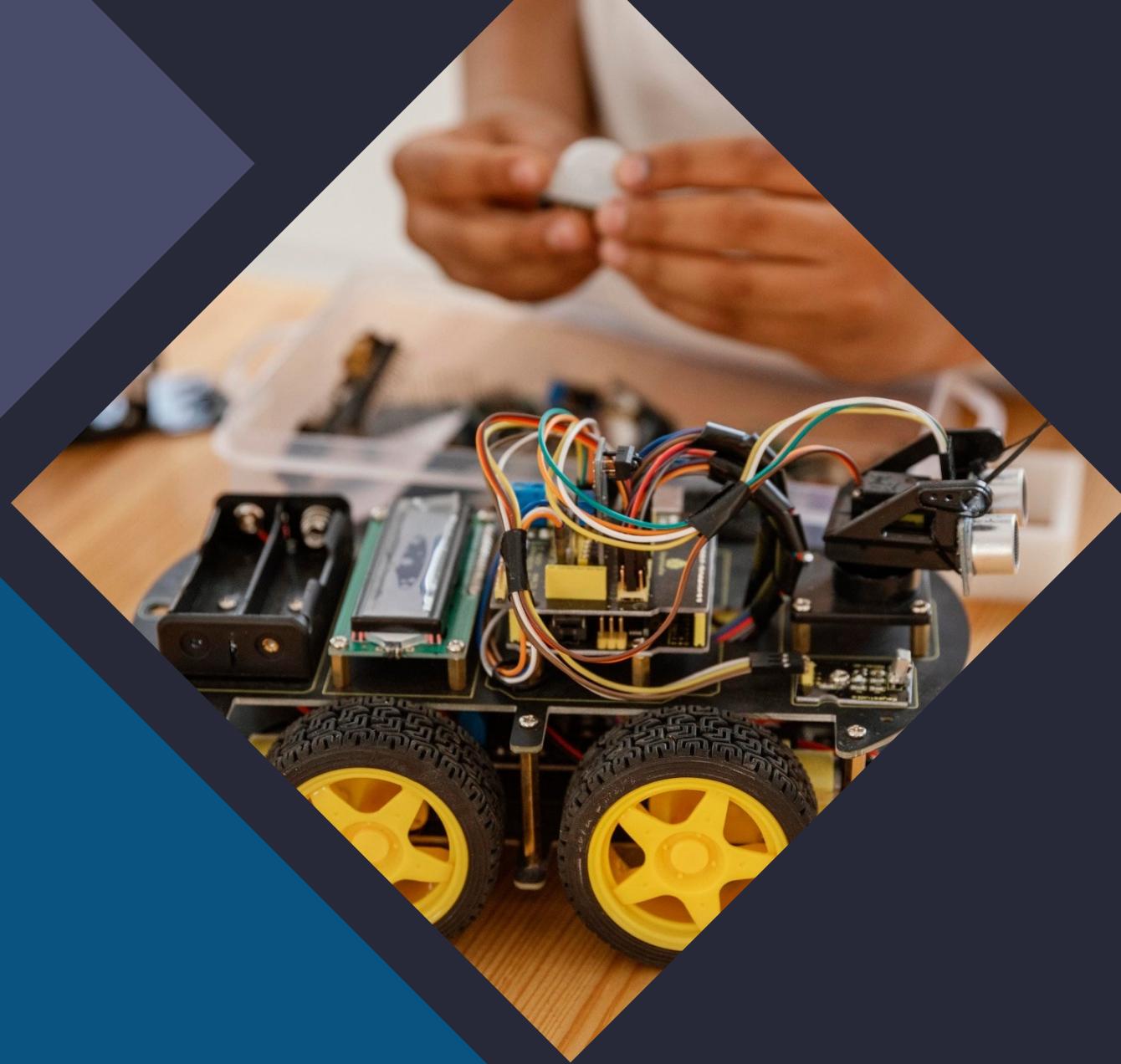
Ground Robots

Ground robots are designed to move on the ground and can navigate narrow spaces. They can be equipped with cameras and sensors to provide real-time data to the rescue team. Ground robots can also be used to transport supplies and equipment.



Aerial Robots

Aerial robots, such as drones, can provide a bird's eye view of the rescue operation. They can be equipped with cameras and sensors to provide real-time data to the rescue team. Aerial robots can also be used to transport supplies and equipment.



Snake Robots

Snake robots are designed to move like snakes and can navigate narrow spaces. They can be equipped with cameras and sensors to provide real-time data to the rescue team. Snake robots can also be used to transport supplies and equipment.



Conclusion



Robotic intervention can provide a safe and swift solution in borewell rescue operations. With the ability to navigate narrow spaces and unstable terrain, robots can reduce the risk of injury and increase the speed of extraction. This technology can save lives and provide peace of mind to families and communities.

Thank you!

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