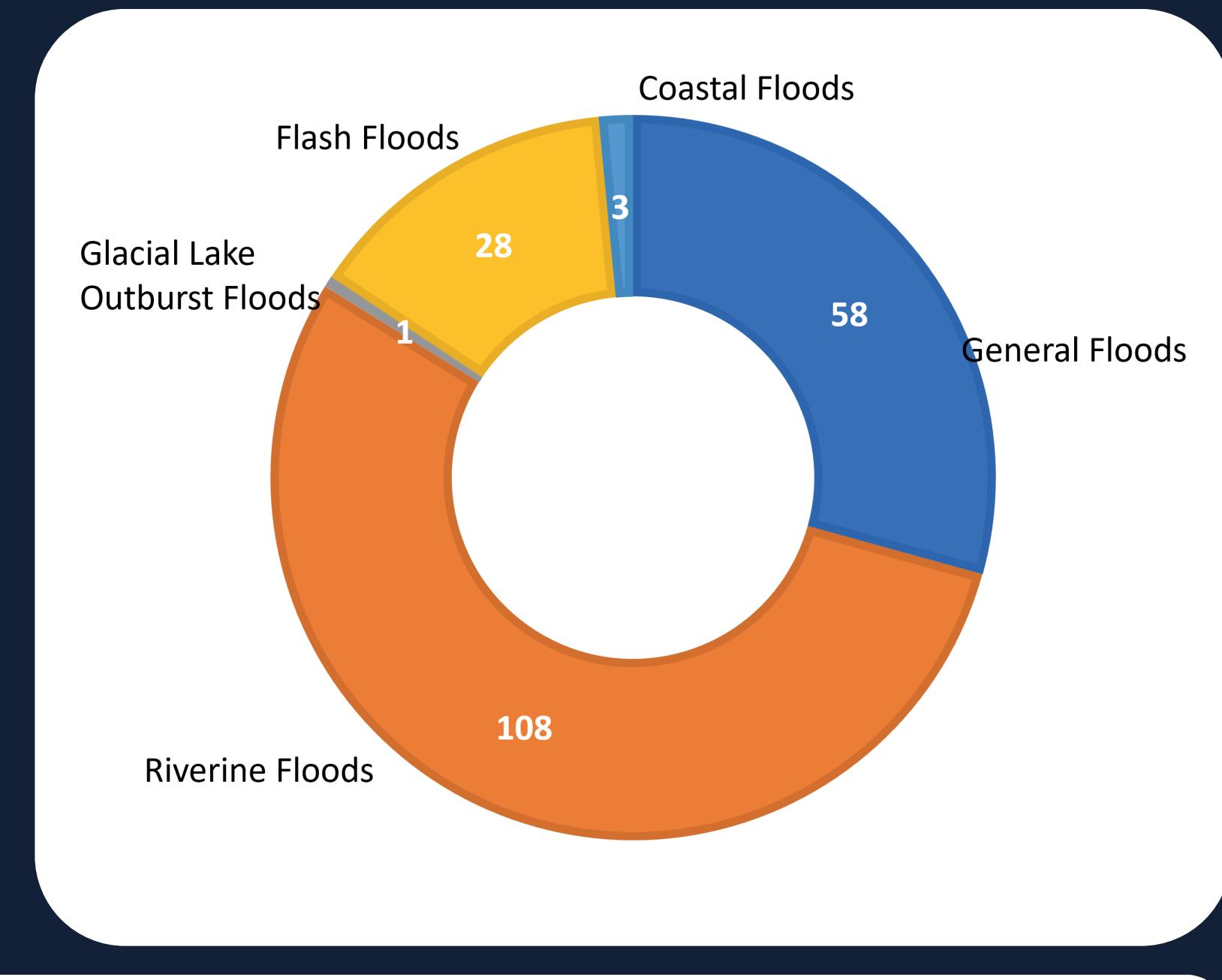
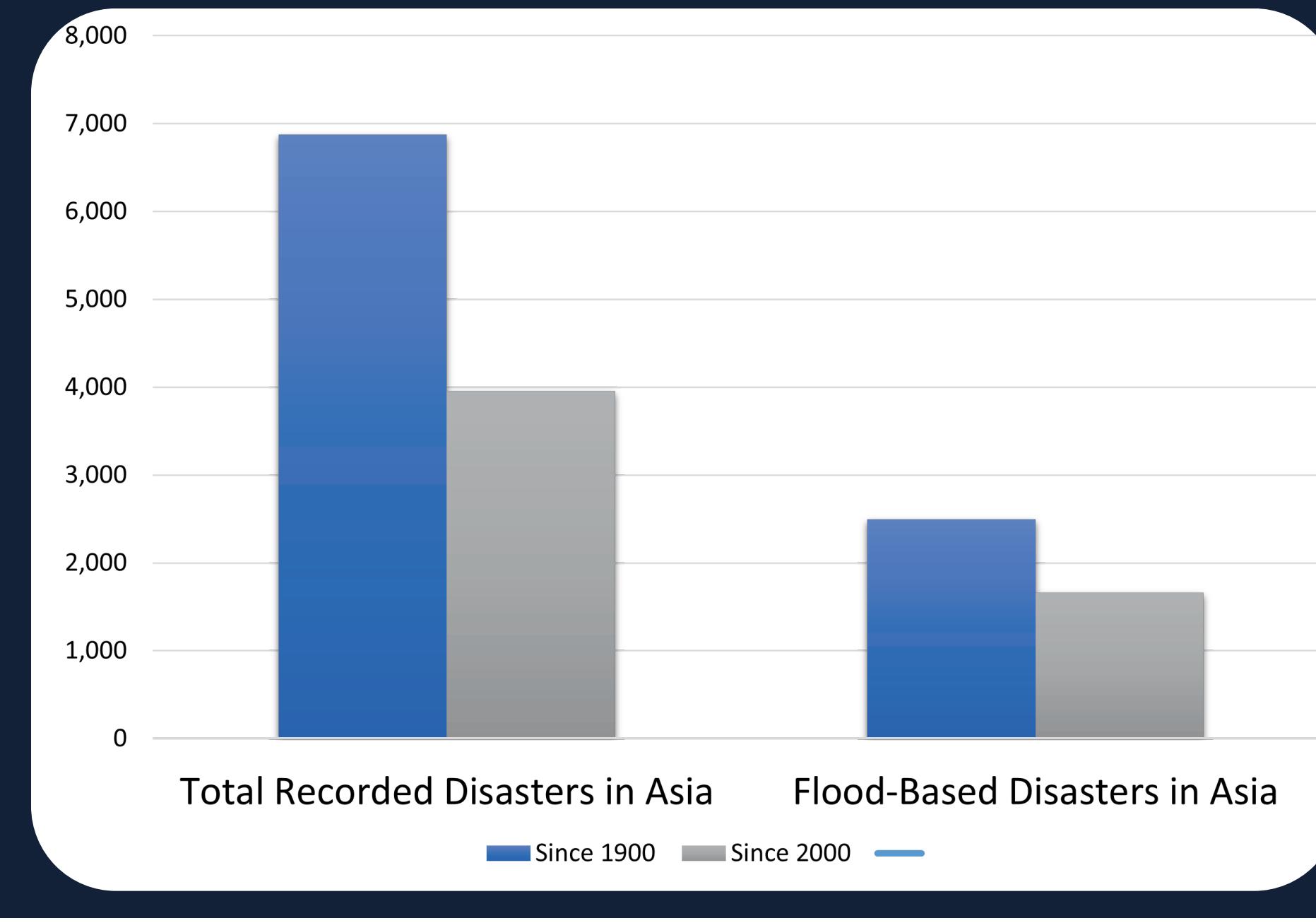
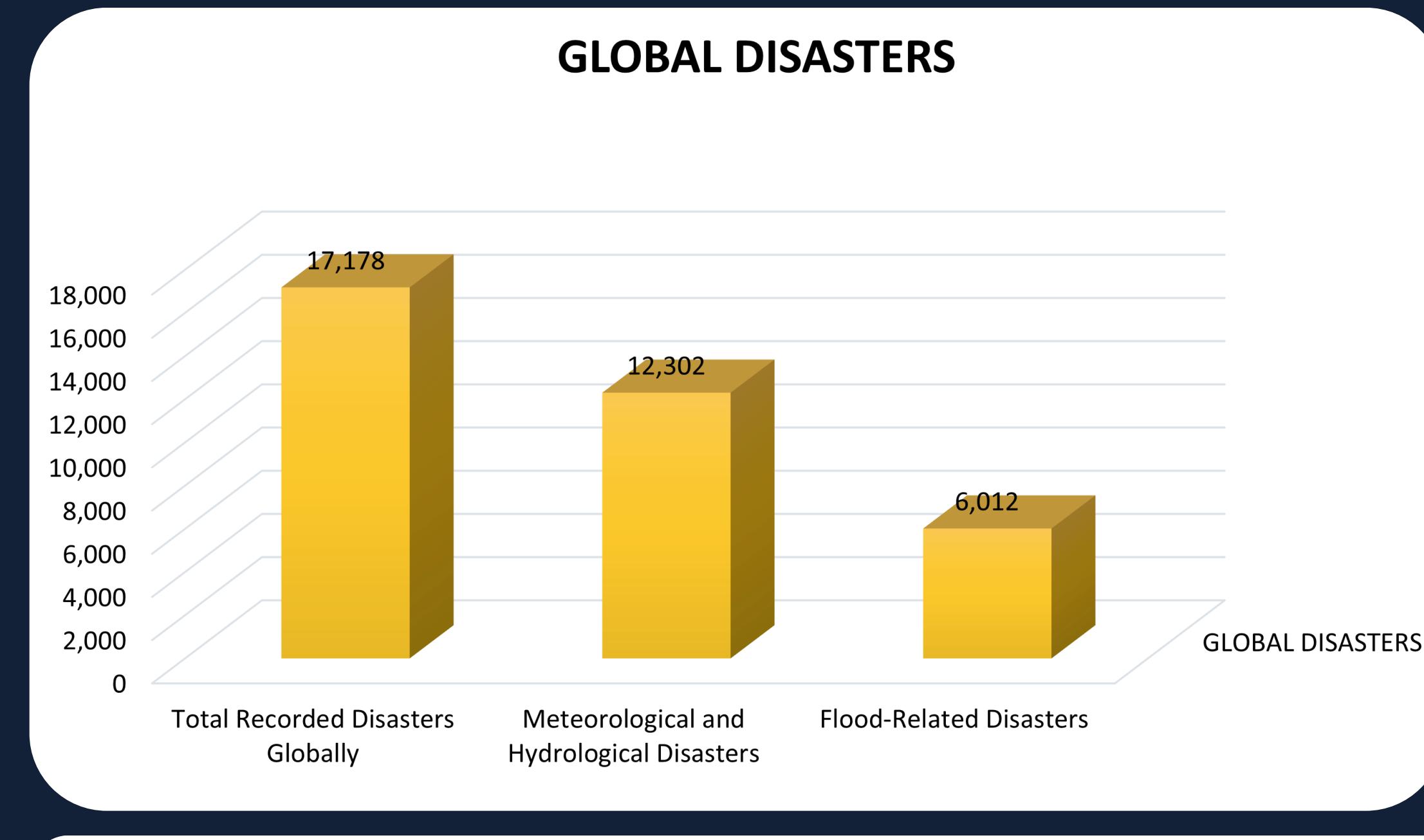


## UNDERWATER ROBOT FOR INSPECTION AND SALVAGE

### ABSTRACT

URIS, the *Underwater Robot for Inspection and Salvage*, is a state-of-the-art robot with a **hydrodynamic design** for the **inspection and relief measures** during **frequent waterborne disasters and floods**, where the difficulties faced are **maneuverability, stability, and precision** during **inspection, navigation, and underwater visibility under murky conditions**. The proposed **Hydrodynamic Kevlar body, Six Degrees of Freedom for better maneuverability, a high-definition camera, and an in-house developed SONAR system** enable URIS to perform precise inspections in murky waters. Its integrated **pressure sensors, USBL navigation, and close loop control** ensure precision and adaptability, resulting in efficient inspections and salvage operations in **challenging underwater conditions**.

### PROBLEM



10,383,094 HOMELESS

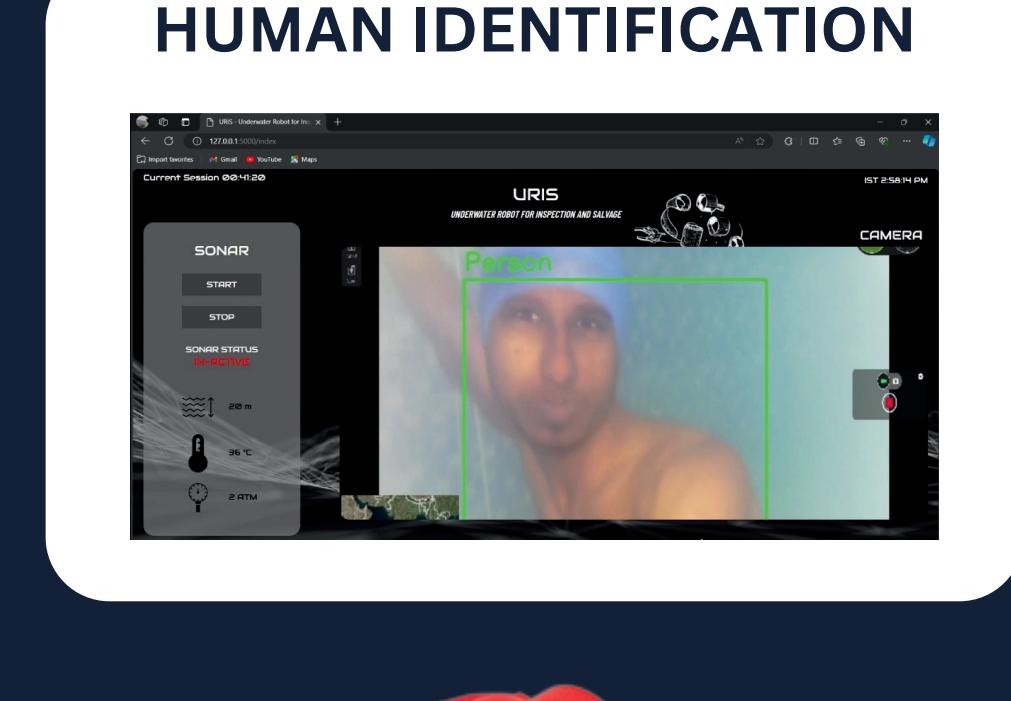
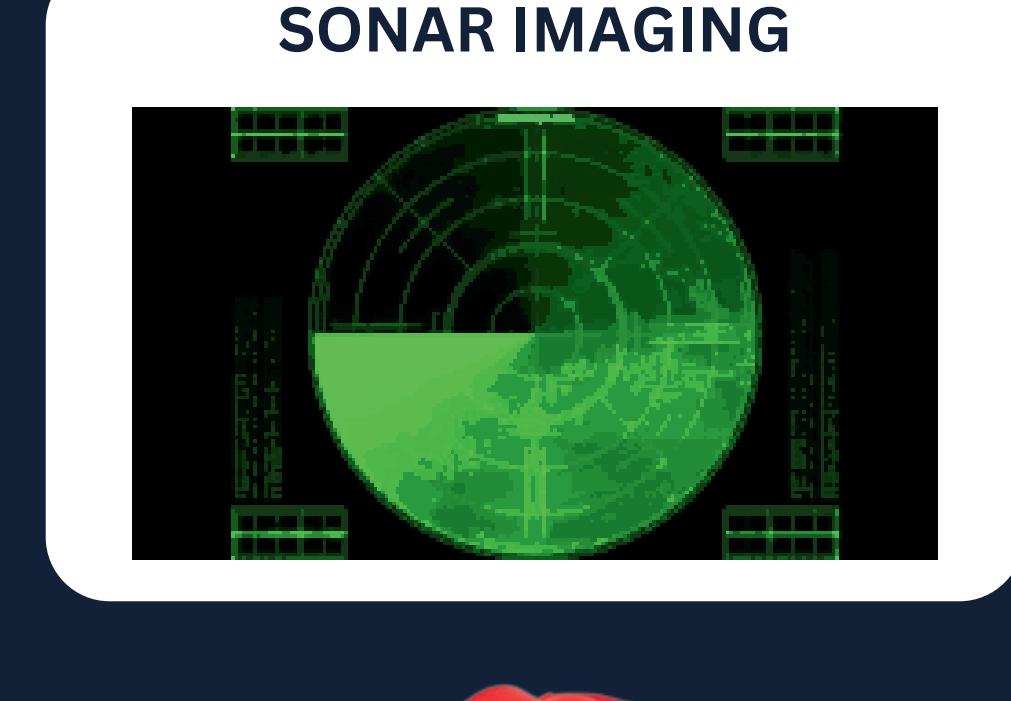
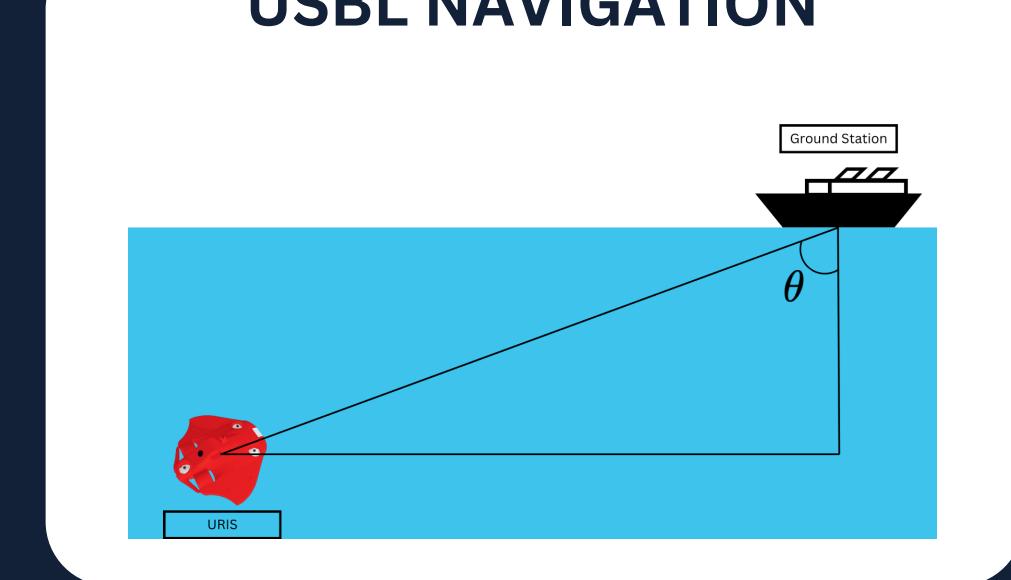
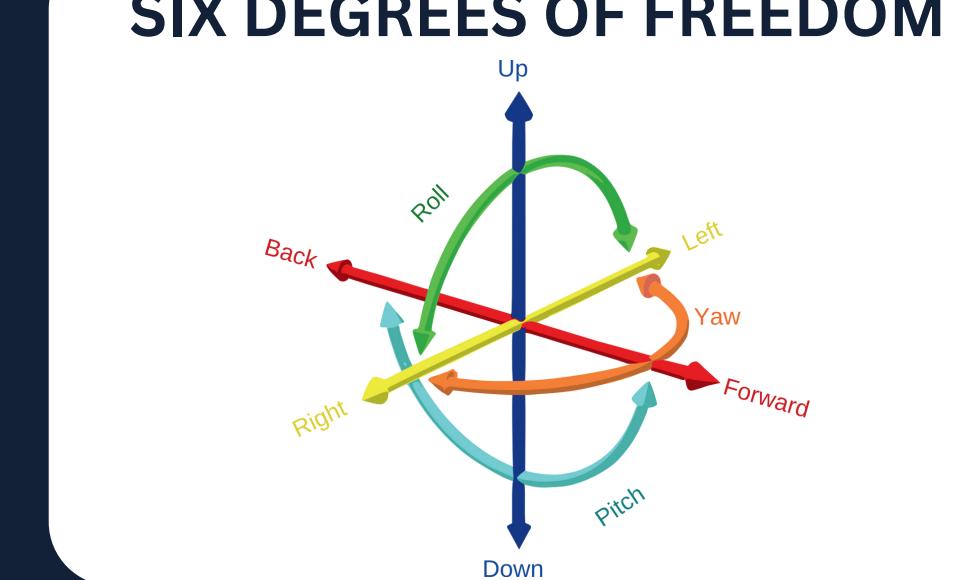
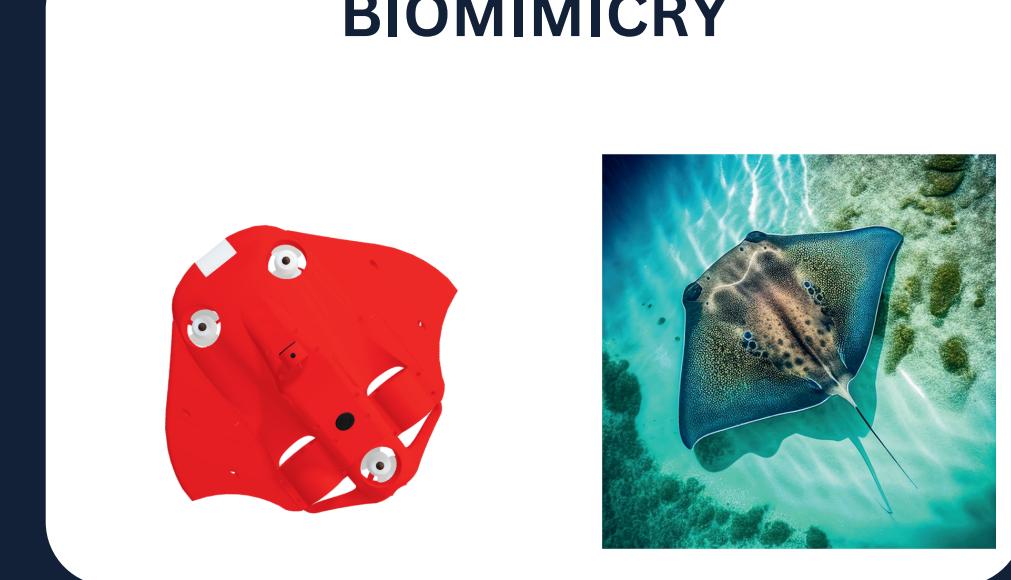
7,620 INJURED

35,586 DEAD

#### REQUIREMENT:

- Precision and Maneuverability
- Visibility in Murky water
- Accuracy
- Intelligent Navigation
- Noise-free SONAR Imaging
- Human Identification

### URIS



### MARKET

