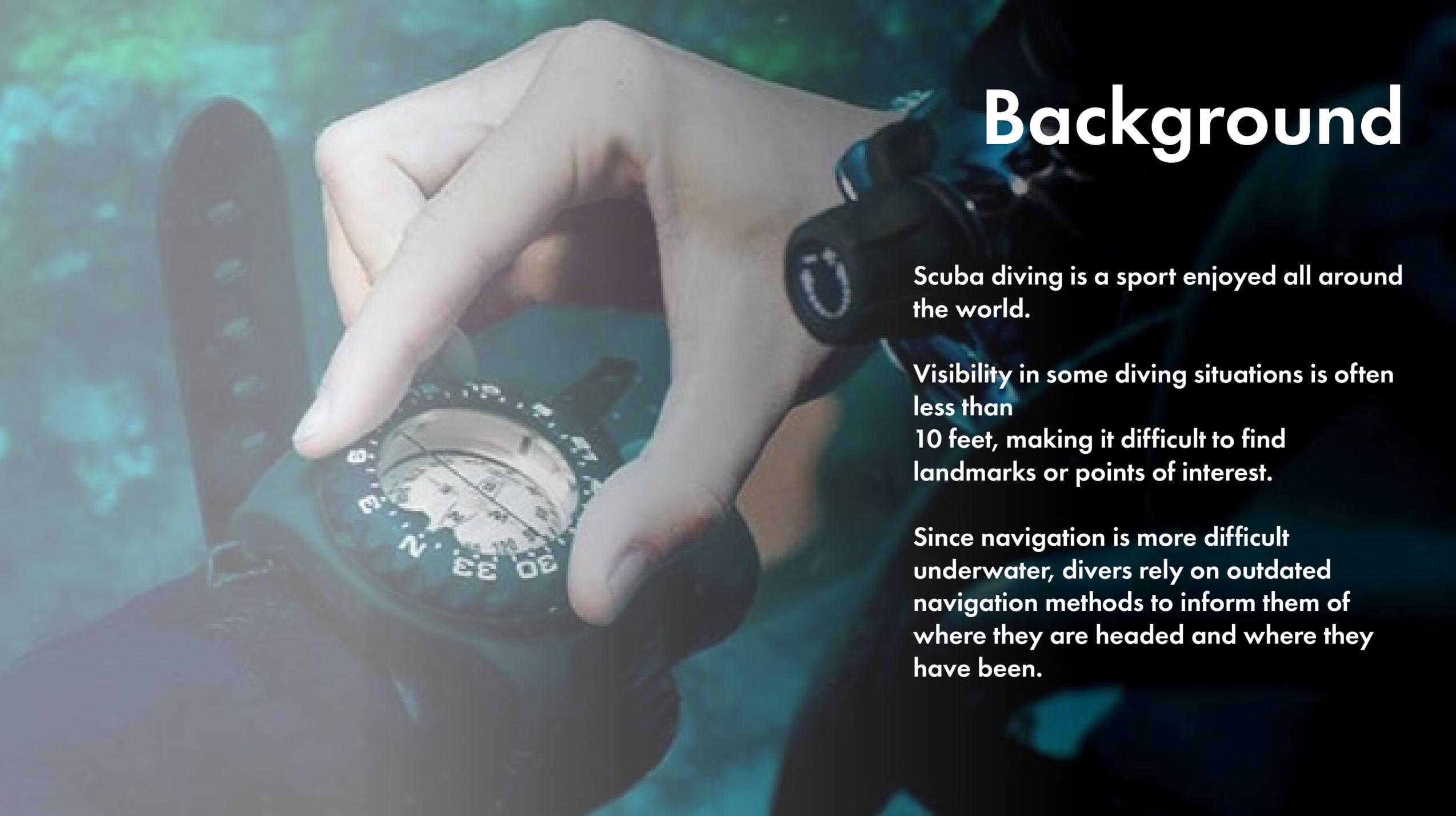


# NORTH POINT

**SCUBA DIVING NAVIGATION AID**

A close-up photograph of a hand holding a compass underwater. The hand is positioned over the compass, with the index finger pointing towards the center. The compass face is visible, showing cardinal directions (N, E, S, W) and degree markings. The background is a blurred underwater scene with blue and green hues, suggesting a deep-sea environment. The overall lighting is dim, typical of an underwater setting.

# Background

Scuba diving is a sport enjoyed all around the world.

Visibility in some diving situations is often less than 10 feet, making it difficult to find landmarks or points of interest.

Since navigation is more difficult underwater, divers rely on outdated navigation methods to inform them of where they are headed and where they have been.

A diver in a blue wetsuit is seen from behind, swimming underwater. Bubbles are rising from the diver's breathing apparatus. The background is a soft, hazy underwater scene with some greenish-brown structures.

# **Student Diver**

**“I want to better understand my environment”**

A diver in a black wetsuit and blue mask is swimming underwater. The diver is looking down and slightly to the side. The background is a clear, light blue water.

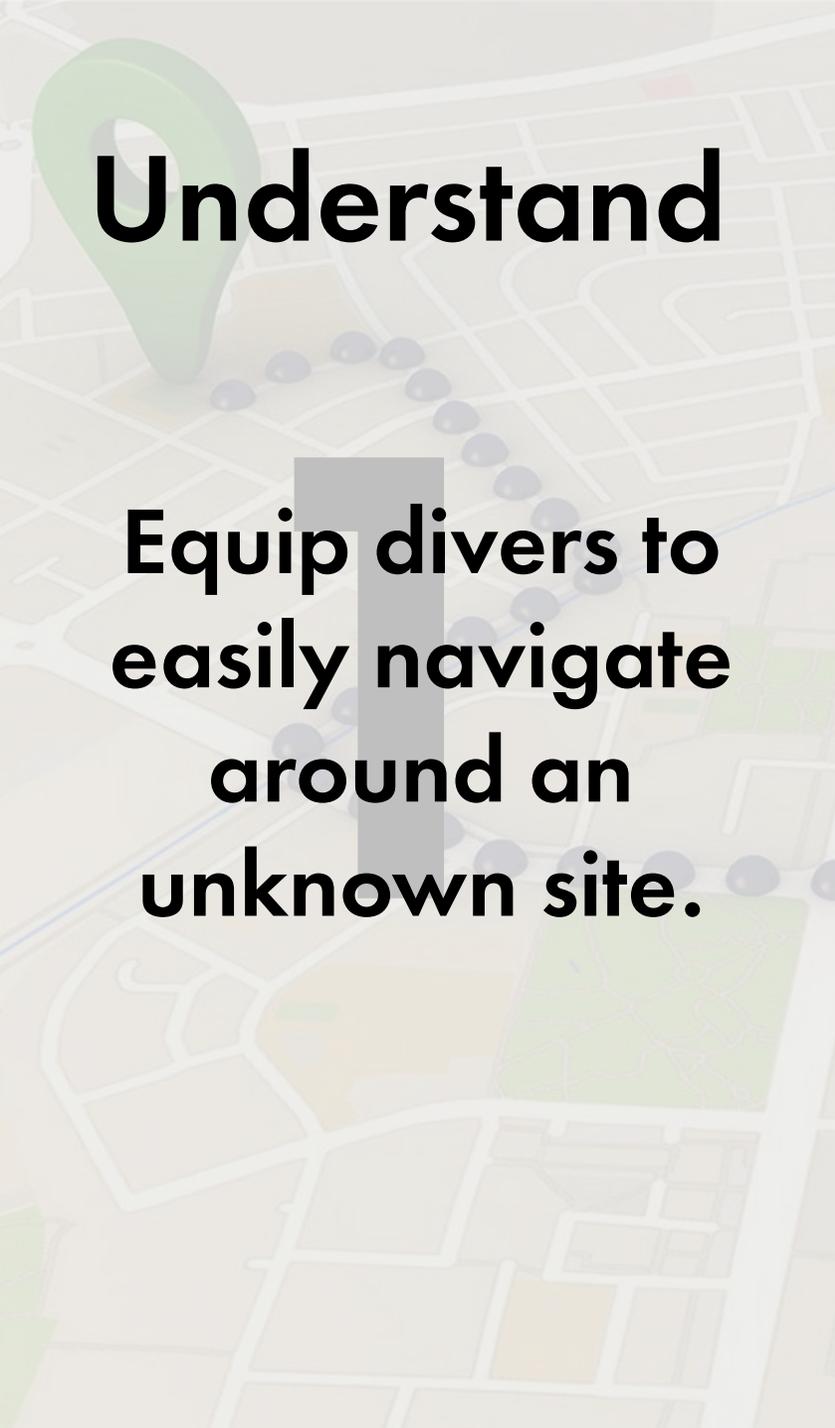
# **Vacation Diver**

**“I want to better explore my environment”**

A man with a beard and long hair, wearing a black wetsuit and a yellow snorkel, is smiling at the camera. He is outdoors, with a rocky cliff face in the background and water in the foreground.

# **Dive Instructor**

**“I want to better monitor my environment”**



# Understand

Equip divers to easily navigate around an unknown site.



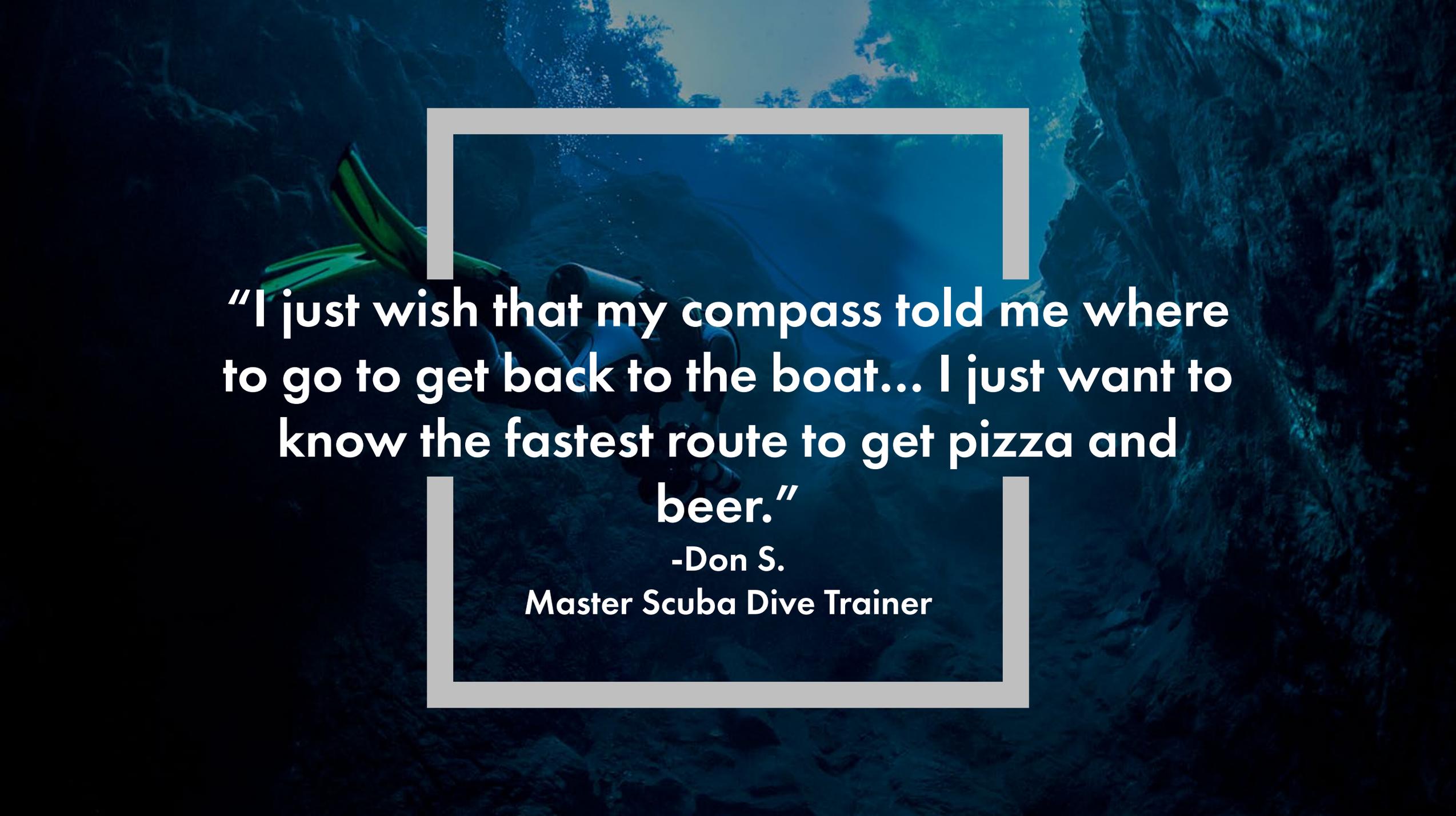
# Explore

Map popular sites through crowd sourced information.



# Monitor

Allow instructors and surface crews to locate divers.

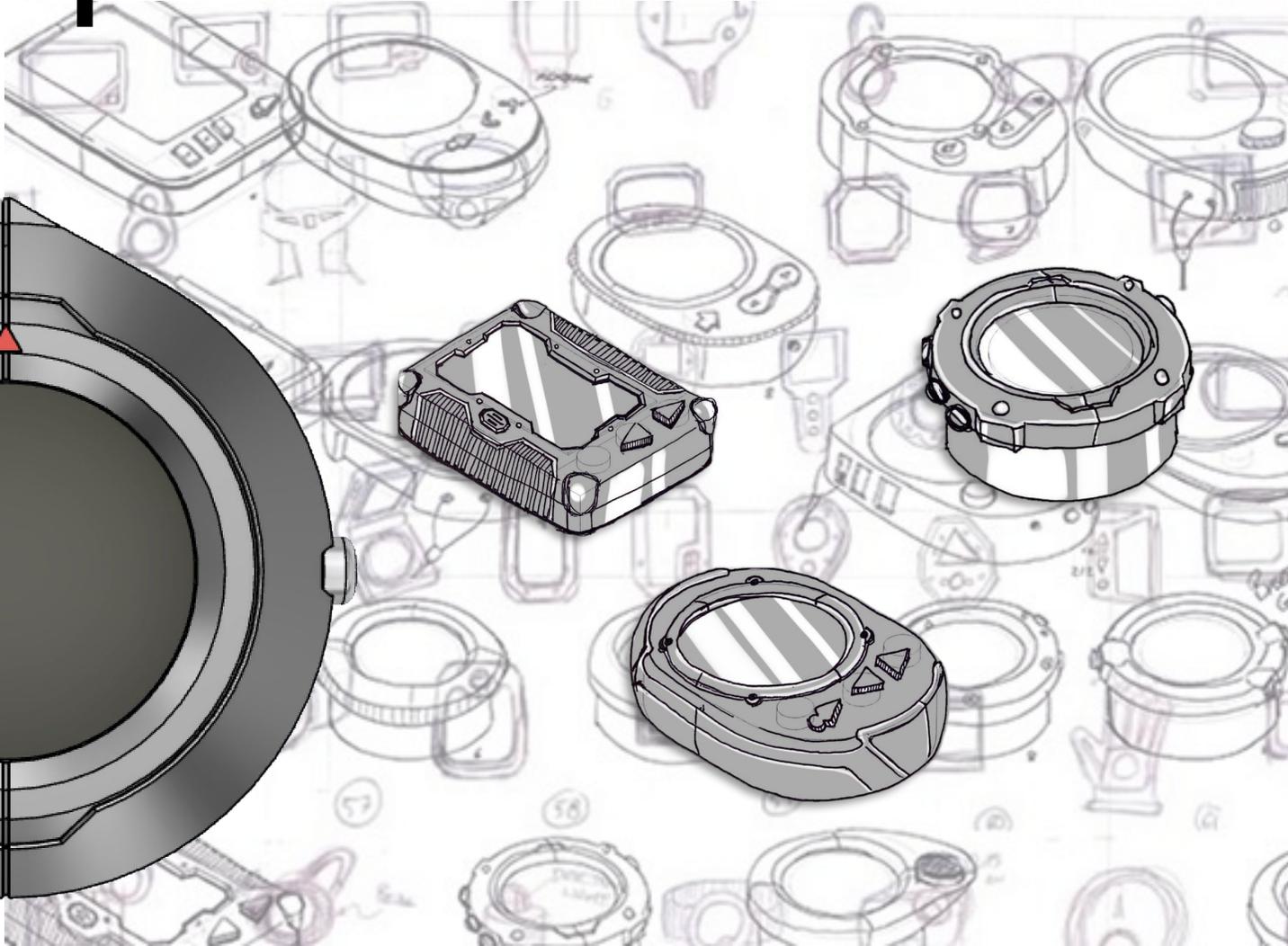
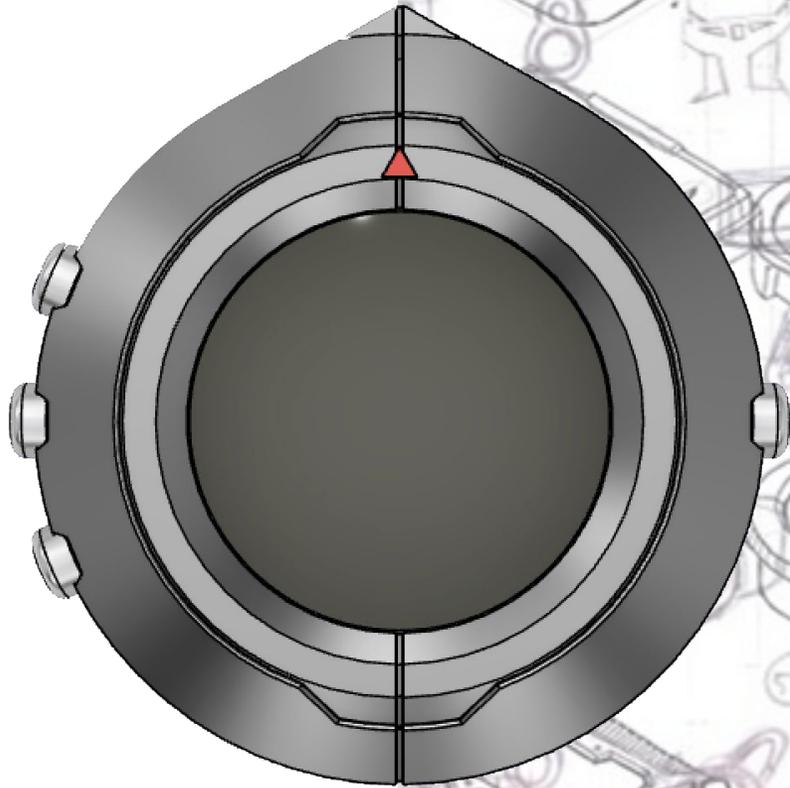


**"I just wish that my compass told me where to go to get back to the boat... I just want to know the fastest route to get pizza and beer."**

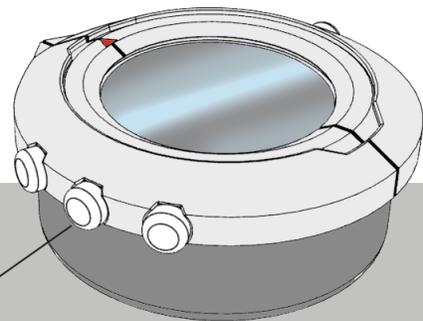
**-Don S.**

**Master Scuba Dive Trainer**

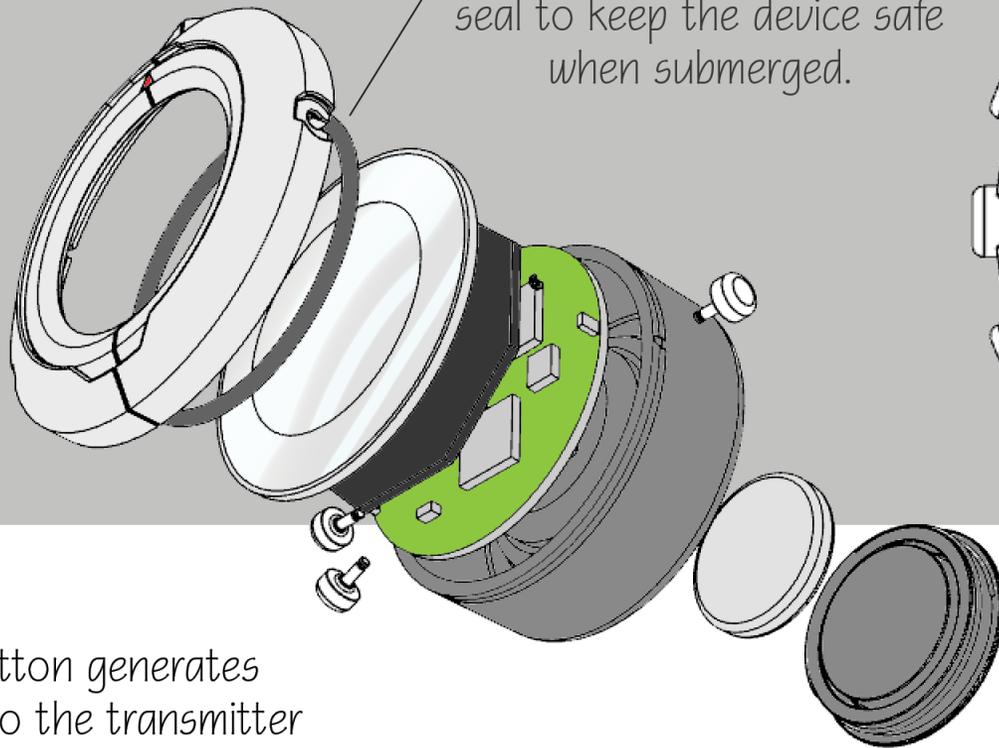
# Development



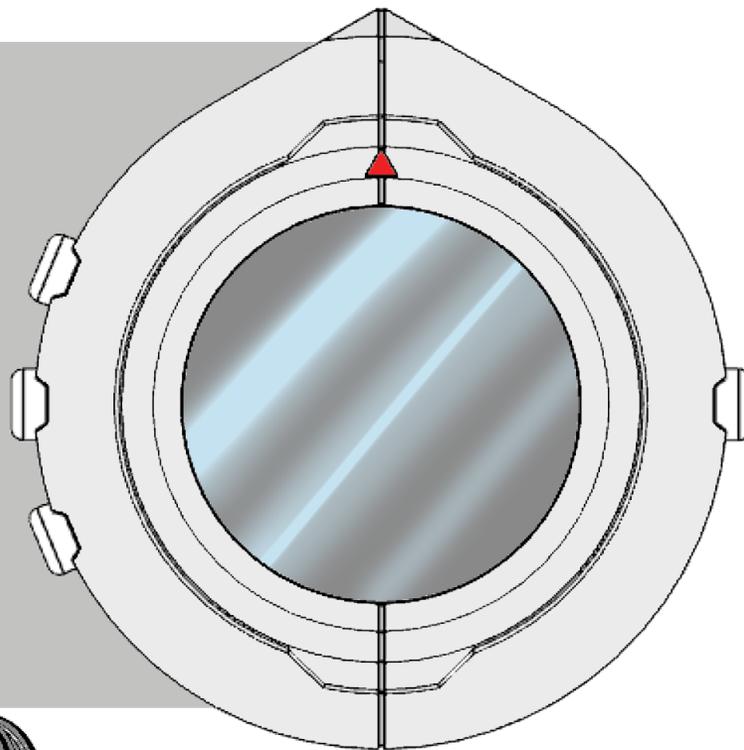
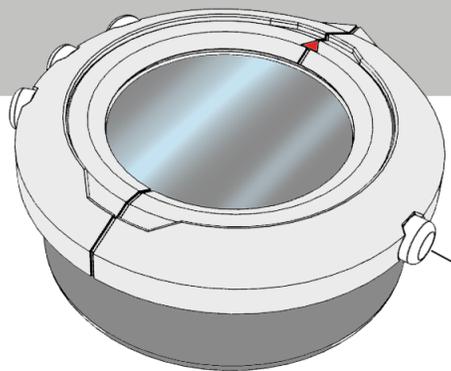
Three buttons that can be programmed to points of interest within a dive site.



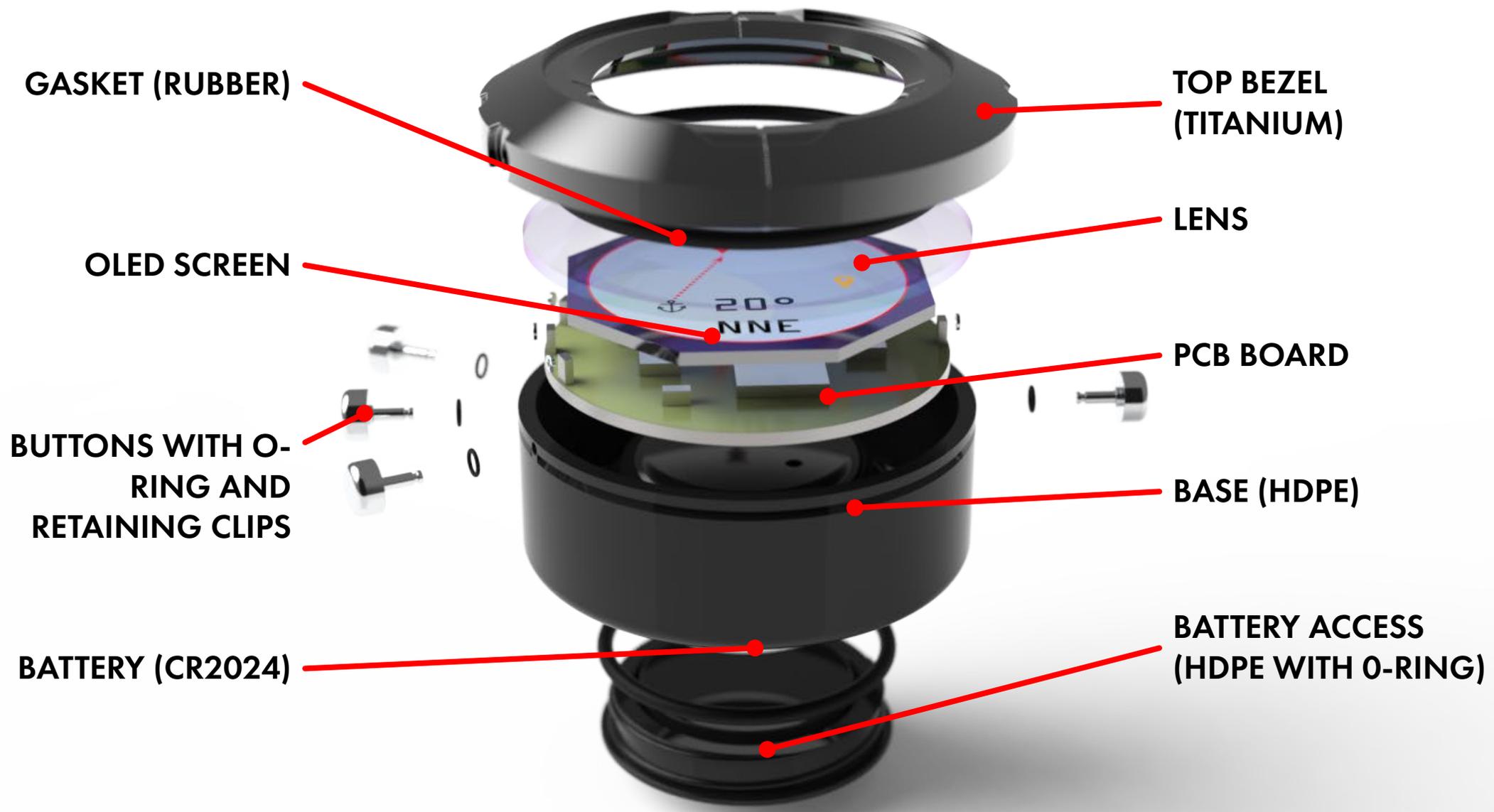
The pieces work together to create a waterproof (200m) seal to keep the device safe when submerged.



Home button generates directions to the transmitter located at the point of entrance.







**GASKET (RUBBER)**

**TOP BEZEL  
(TITANIUM)**

**OLED SCREEN**

**LENS**

**BUTTONS WITH O-  
RING AND  
RETAINING CLIPS**

**PCB BOARD**

**BASE (HDPE)**

**BATTERY (CR2024)**

**BATTERY ACCESS  
(HDPE WITH O-RING)**

# Styles

