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IDEA PROPOSAL

AUV

AUTONOMOUS UNDERWATER VEHICLE

ABOUT US



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ABOUT THE IDEA



Water covers about 3/4th of the earth's surface, leaving us with only a small portion accessible. With the accelerated depletion of already available resources, there is a need to discover better resources that help maintain the sustainability of resources. 71% of the earth not accessed by us also implies that that much parts of the world is yet to be explored by humanity. This leaves us with the need for exploring and researching the never ending water bodied regions.

Why AUVs?

Understanding the ocean Environment

The ocean is a vast and largely unexplored environment, and underwater exploration can help to uncover new species and ecosystems that were previously unknown. Understanding the complex interactions between different species and their environment is crucial for the management and conservation of marine ecosystems, as well as for the development of new medicines and biotechnologies.

Discovery & development of underwater resources

The ocean floor is rich in mineral and energy resources such as oil, gas, and rare metals. Underwater exploration can help to identify new resource deposits and develop new technologies for their extraction. The development of sustainable & responsible mining practices can help to reduce the impact on the marine environment & ensure the long-term viability of these resources.

Studying climate change & it's impact on the oceans

The ocean plays a critical role in regulating the Earth's climate and absorbing carbon dioxide from the atmosphere. Understanding the impacts of climate change on the oceans and their ecosystems is essential for developing strategies to mitigate its effects. Underwater exploration can help to collect data on ocean temperature, salinity, and other parameters that are critical for climate modeling and prediction.

Development of new technologies & innovations

The ocean environment poses unique challenges, such as high pressure, low visibility, and extreme temperatures, that require the development of specialized technologies. Underwater exploration can help to drive innovation in fields such as robotics, materials science, and energy storage, with applications that extend far beyond the ocean environment

