

# TIDEWISE



## Enabling drone operations on small boats

**TideWise** and **STABLE** are pleased to confirm successful final tests in December 2020 for the ARIEL project using the USV Tupan.



The stabilized drone platform from **STABLE** was selected as the instrument for safeguarding UAV operations. This R&D project, consisting of an autonomous oil spill detection system, was executed in partnership with **Repsol Sinopec Brasil** through the *Brazilian National Agency of Petroleum, Natural Gas and Biofuels* financing scheme.

The USV and the UAV are working autonomously and collaboratively, allowing continuous monitoring and detection of oil spills at sea.

Link: <https://www.youtube.com/watch?v=irhxHwRsw3E>

Rafael Coelho, Managing Director of **TideWise**: “One of the project’s main challenge was accomplishing a safe UAV landing on a moving USV. Based upon a bespoke flexible design, low power consumption long time stabilization references and a proactive engineering team - the **STABLE** platform was selected for our project as it removed most of the rolling and pitching motions for securing a successful landing.”

“It has been a unique experience for **STABLE** to adopt our stabilization technology onboard a boat of less than 5m length. The professional **TideWise** team was a pleasure to work with, and the combined resources and intellect successfully enabled autonomous drone operation on a small vessel” says CSO & Partner at **STABLE**, Rune M. Eriksen.

### About TideWise:

[TideWise](#) is a Brazilian technology-based company that provides maritime solutions. We are technology enthusiasts with more than 30 years of cumulative experience in vessel design and robotics.

Our technology significantly reduces the environmental impact of maritime operations, operational costs and risks to human life. We provide port, coastal and offshore services using our own autonomous and remotely operated unmanned surface vehicles.

### About STABLE AS:

[STABLE AS](#) (Est. 2002) is the #1 supplier of onboard stabilization platforms, utilizing technology originally developed for use in active heave compensated cranes for the Offshore Industry.

The STABLE platform neutralizes roll and pitch movements onboard a vessel. These movements are estimated based on sensor signals and the platform is automatically adjusted by computer-controlled actuators.

STABLE has proven its value through one of the most demanding applications in terms of responsiveness and accuracy: the [STABLE Billiard](#), which has been installed on a number of cruise ships and luxury yachts.