



The ESA Business Incubation Centre Barcelona (ESA BIC Barcelona) opened in 2014. It is managed by Barcelona Activa and supported locally by renowned public administrations and institutions, namely Area Metropolitana de Barcelona, Diputació de Barcelona, Consell Comarcal del Baix Llobregat, Universitat Politècnica de Catalunya – Parc UPC and Caixa Capital Risc. Located in Barcelona, Spain, this incubator offers start up support and technical expertise for the creation of innovative companies.

bound4blue

Creating eco-friendly solutions to assure our future needs



Website

Founded in 2014 by

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Incubation period

15-09-2015 to 15-09-2017



About bound4blue

We cannot envision a future in which the dependence on fossil fuels is still an issue. That is why we have rolled up our sleeves and have started working on solutions that will drive that dependence out of ship transport and, in the future, of the production of hydrogen and oxygen. For years, we have worked on the design of a rigid wingsail technology applicable to both industrial fields.

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The challenge

The maritime transport is in a continuous growing perspective and is facing a double challenge: (i) the global rise in fuel prices and (ii) the appearance of a tighter environmental legislation on pollution issues [not only about CO₂ but also about other pollutants: nitrogen oxides (NO_x), sulfur oxides (SO_x) and particulate matter (PM₁₀)]. Therefore, there is a clear need around new technologies to take advantage of alternative energy to drive the hydrocarbon fuel dependence out of the ship transport.

The solution

bound4blue is now working with two main complementary wingsails designs, for heavy and light applications, focusing on bulk carriers and tankers as the main target.

Our technology reduces fuel consumption and emissions of the maritime transport to capture effective thrust from wind power. It can be highly automated and do not require specialist crew competencies or additional crew numbers. Designed as a fuel assist technology for conventional vessels, bound4blue's wingsail design allows them to operate at usual speed with reduced engine propulsion.
