



The ESA Business Incubation Centre (BIC) Portugal opened in November 2014 and is managed by the University of Coimbra's Instituto Pedro Nunes (IPN), in collaboration with Science and Technology Park at University of Porto and DNA Cascais. Local partners include the University of Coimbra, Comissão de Coordenação e Desenvolvimento da Região Centro (CCDRC), Portugal Ventures, FNABA, DNA Cascais, the University of Porto and several polytechnic institutes. The three ESA BIC Portugal host offices are located in Coimbra at IPN, in Porto at the Science and Technology Park of University of Porto, and in Cascais (near Lisbon) at DNA Cascais. Over the first five years, the ESA BIC Portugal will support 30 Portuguese start-up companies, providing a financial incentive along business and technical support, creating at least 240 local high-tech jobs. In total, the start-ups will receive €1.5 million as seed incentive and be able to tap into an additional €7 million in support.

Fibersail

Shaping the structures of tomorrow



FIBER SAIL

Shaping the structures
of tomorrow

Website

Founded in 2015 by

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- **VITOR HUGO SIMÃO DO VALE ROCHA**

Incubation period

01-08-2017 to 31-07-2019



space solutions

About Fibersail

A continuous and automated real time shape monitoring service for the condition and behaviour of wind turbines blades with a simple and efficient way of integration.

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The challenge

Fibersail is a Big Data Analytics tool based on a real time shape sensing system that will help turbine blade manufacturers better understand and improve their products, and wind turbine operators improve performance and availability while preventing failures and reducing maintenance costs for their wind turbines.

The solution

Fibersail is a shape sensing system based on FBG fiber optic research to monitor and analyze windmill blades in terms of shape, condition and behavior. The real-time information provided will help wind turbine operators to maximize performance and availability while preventing failures and maintenance costs from their windmills.

Our unique solution and approach with fiber optic sensors, makes it possible for a very easy and simple integration along the entire length of any critical structure to the monitoring of its precise shape and behavior.
