



The ESA Business Incubation Centre in Harwell, UK, started its operations in 2011 and is managed by the Science and Technology Facilities Council (STFC). It is located at Harwell Campus, a world leading science, technology and business campus based in South Oxfordshire with more than 4,500 researchers, engineers and innovators from over 150 high-tech organisations, and a focal point and cluster for the UK's rapidly growing high-tech space community.

Satavia

Digital environmental intelligence for smarter, safer aviation



Website

Founded in 2013 by

- Adam Durant

Incubation period

10-03-2017 to 09-03-2018



space solutions

About Satavia

Satavia offers digital environmental intelligence to make aviation smarter and safer. Satavia is a SME based in the UK with offices in Cambridge and Harwell. Our team combines expertise in numerical weather prediction modelling, artificial intelligence and data science, with extensive aviation and transport executive-level experience.

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The challenge

Environmental factors in the atmosphere, like dust, ice, sulphur, and volcanic, accelerate wear of aircraft components; unscheduled maintenance costs the industry billions of dollars each year.

Aircraft operators, manufacturers and maintenance repair organisations now increasingly

share maintenance liability through 'power-by-the-hour' services for the lifetime of the aircraft.

The solution

Satavia's digital intelligence platform generates environmental factor exposure analytics for individual aircraft and airports, and integrates machine learning to offer automated risk-based decision-making capability. Satavia's data-as-a-service enables aircraft operators to modify aircraft flight plans and scheduling to extend engine lifetime, which saves \$millions per engine in lifetime maintenance, and reduces cost of aircraft ownership. Aircraft engine manufacturers can proactively adjust maintenance plans to minimise unscheduled maintenance.

The mission is to make aircraft maintenance planning more predictable. Satavia's digital environmental intelligence reduces maintenance liability for aircraft operators and OEM by minimising unscheduled aircraft maintenance caused by the environment.

