



Paris Air Show, June 2015

RIISING TO TOMORROW'S AVIATION CHALLENGES

A pivotal player in a leading-edge industry, Dassault Aviation teams up with a number of strategic players: other corporations, small businesses, research organizations and prestigious universities.

Building tomorrow's combat aircraft

We are successfully managing the first joint European unmanned combat air vehicle (UCAV) program, nEUROn.

In 2014, France and the United Kingdom signed a contract with Dassault Aviation and BAE Systems concerning the Future Combat Air System, or FCAS, to carry out a study on operational concepts for a combat drone and the development of innovative technologies.

In conjunction with Airbus Group and Finmeccanica, we have also submitted to the French, Italian and German governments a proposal for the MALE 2020 program, for a medium-altitude, long-endurance drone.

The Patmar 2030 study seeks to establish the principles for a future maritime patrol system, combining satellites, drones and combat aircraft.

Developing greener aviation

We are funding our own research into "Future Falcons" based on innovative technologies such as advanced composites and aerodynamics.

We are also a partner in a number of international research programs. At the European level, for instance, we are participating in the Smart Fixed Wing Aircraft (SFWA), one of the six Integrated Technology Demonstrators (ITD) in the vast Clean Sky program. The program achieved a major milestone in 2014 with the wind tunnel test of a business aircraft featuring a laminar flow wing and a novel U-shaped tail.



We are also representing the European Business Aviation Association (EBAA) in the Sesar (Single European Sky ATM Research) program to modernize air traffic management. We are taking part in research on approach procedures using an augmented vision system. In addition, we are contributing to the integration of military aircraft and drones in tomorrow's airspace.

In France, we partner the Corac civil aviation research council. An exhibition was organized in 2014, showcasing a wind-tunnel model of an ecological and economical business aircraft, plus a Falcon wing panel.

Sharing skills

We bring subcontractors into our industrial and logistic processes early in the game, and we also help them move up the skills chain.

By sharing technologies, our military export customers become full-fledged partners in the production and upgrading of their aircraft. This collaborative approach is shown by our creation of a total immersion training program in a virtual workshop, allowing skilled trade workers to learn about the product, the working environment and their specific tasks, especially for export contracts.

A partner in exciting space programs

We're involved in the European Space Agency's IXV (Intermediate eXperimental Vehicle) reentry demonstrator, sharing our skills in advanced aerospace vehicles. On February 11, 2015, the IXV was launched from the Guiana Space Center in French Guiana, making an atmospheric reentry which provided a large volume of data that will be used to validate system design tools.

We also support Swiss Space Systems' (S3) SOAR project, which is designed to launch small satellites into low Earth orbit. Based on the VEHRA airborne launcher concept developed by Dassault Aviation, and fitted with components already used on Rafale and Falcon aircraft, the system created by S3 is robust, flexible and safe.