



EOLE VEHICLE CARRIER

Flying system for a new satellite launchers propulsion

Technological benefits

A robust system

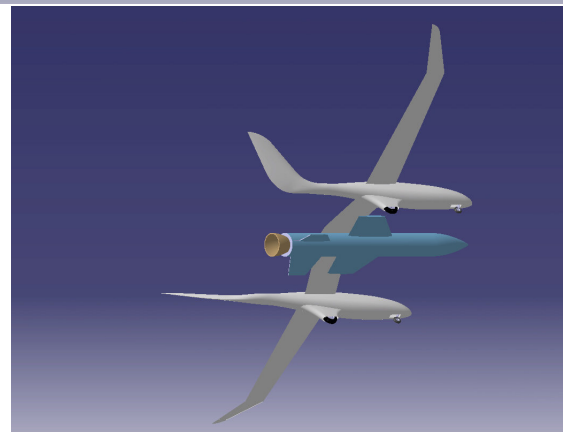
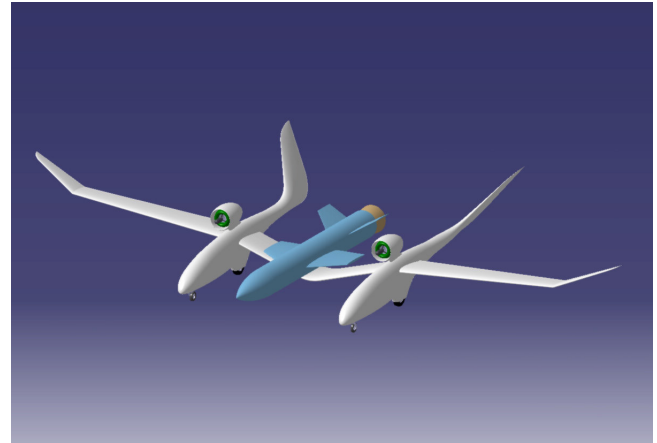
- The central part of the wing makes it possible to ensure the rigidity of the whole airborne carrier vehicle

A modular system

- Modular wing in 3 parts:
 - Two removable external parts allow the elongation of the canopy
 - A central part in V or V inverted according to the chosen release mode

A precise system

- The twin-engine configuration have a central part undisturbed by various turbulences created by motors



Invention overview

Test bench allowing verification of separation systems and associated control laws. Its design allows to test a wide variety of separation systems and release trajectories. It is also studied to allow the carrying of experimental bays of embedded systems (launchers of satellites). Robust flight quality ensures its viability during these tests.

Potential applications

Spatial

- Carrying of experimental bays
- Carrying of embedded systems

Transport

- Freight transport

Security

- Ground surveillance in civil security

Commercial benefits

Versatility

The same carrier can be used for several types of drops

Precision

The V-shaped empennage permits to clear the central part of the presence of the stabilization and control surfaces

TRL : 6

Patent filed by CNES, ONERA and Aviation Design