Up to 80% of the life-cycle cost of an aircraft is incurred during the conceptual design phase.

SimSAC brings MDO into the early conceptual phase with the advantages to

- Design greener, quieter, and safer aircrafts
- Reduce the risks, cost and time of the conceptual design phase
- Predict, design, improve aircraft performances

The SimSAC Consortium provides solutions to

- Design the right control system
- Predict new aircraft performance
- Analyze existing aircraft
- Suggest ways to improve performance

The SimSAC Toolbox contains a turn-key software framework: CEASIOM

CEASIOM is built upon the web services concept that provides the interoperability to the user to select that fidelity of the modeling best suited to his design task.

Alternatively, because of their interoperability, our solution modules can be plugged into your design environment to enhance your design capabilities.
The innovations of SimSAC:

CEASIOM offers an interactive, integrated design and decision making environment.

Our interoperable modules include:

• Parametric solid-model CAD
• Buffet onset prediction
• S&C database builder
• J2 Universal Toolkit

J2 Universal Toolkit

CEASIOM graphical user interface (prototype)

Parameterized CAD-centric solid modelling

Low/high fidelity aerodynamic methods

Aero-elastic modelling

Flight Control System Design Tool-kit and Integrated Stability & Control analyzer

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