Standard simulation tools are currently being used to test aircraft aerodynamic performance. However, these tools fail to deliver reliable performance predictions outside of the aircraft's normal cruise conditions, where complex geometric details must be included.

With Dassault Systèmes SIMULIA, accurate, fully complex simulations of the complete aircraft can be done over the entire flight envelope, early in the design and development process.

- Reduce time to market with simulation driven design.
- Reduce project risks & increase certification confidence in early development phases.
- Reduce costs and time associated with wind tunnel campaigns.

Air travel and traffic is at an all time high.

- 15.8 million flights handled by FAA annually
- 859 million tons CO₂ in 2017
- 97 billion gallons fuel burn in 2019
- Over 4.1 billion passengers were carried by the world’s airlines in 2017