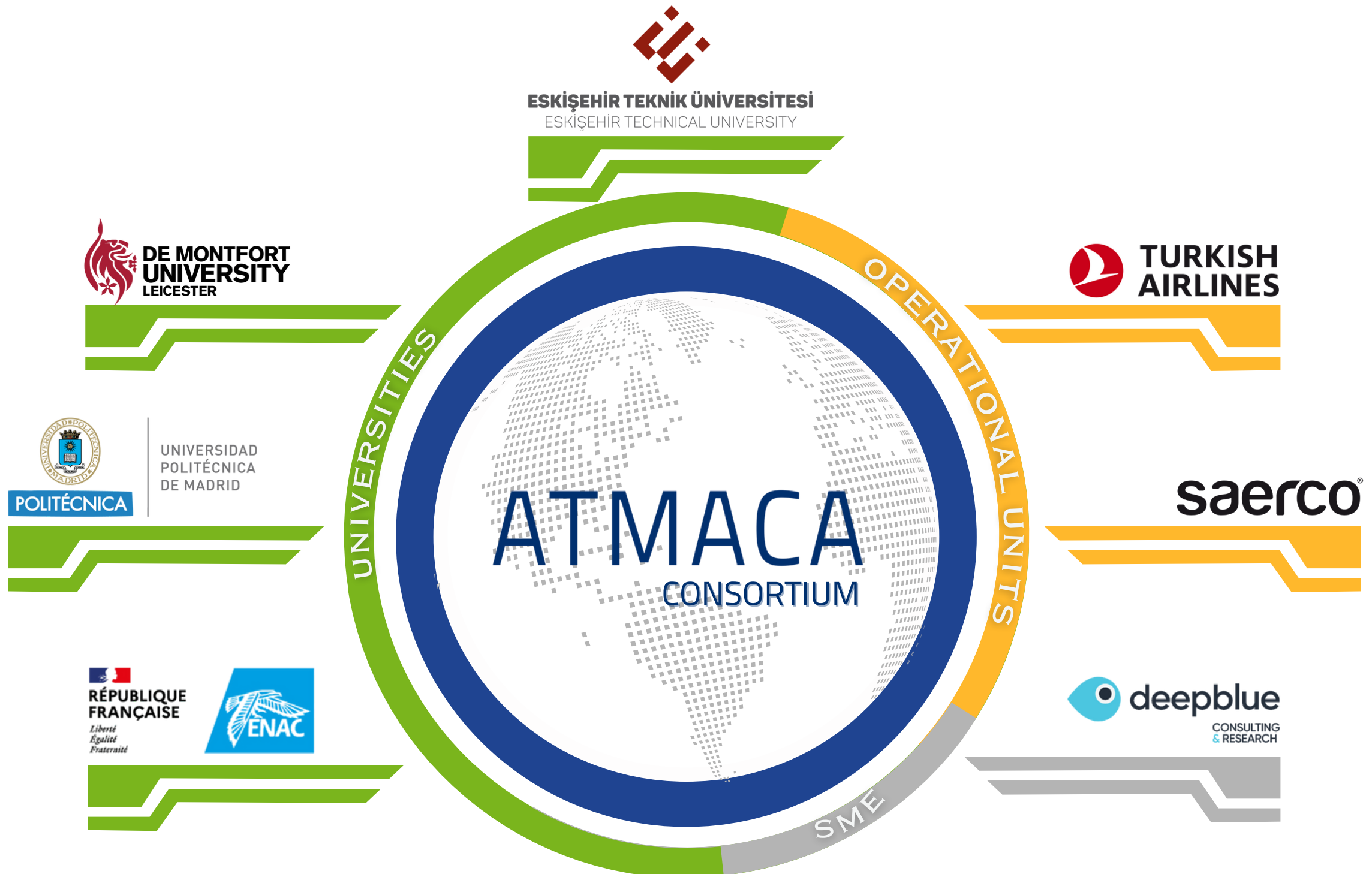


Meet the ATMACA Consortium

Introducing the ATMACA Project partners, working together towards the Digital European Sky!



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Explore DMU



School of Engineering, Infrastructure, and Sustainability

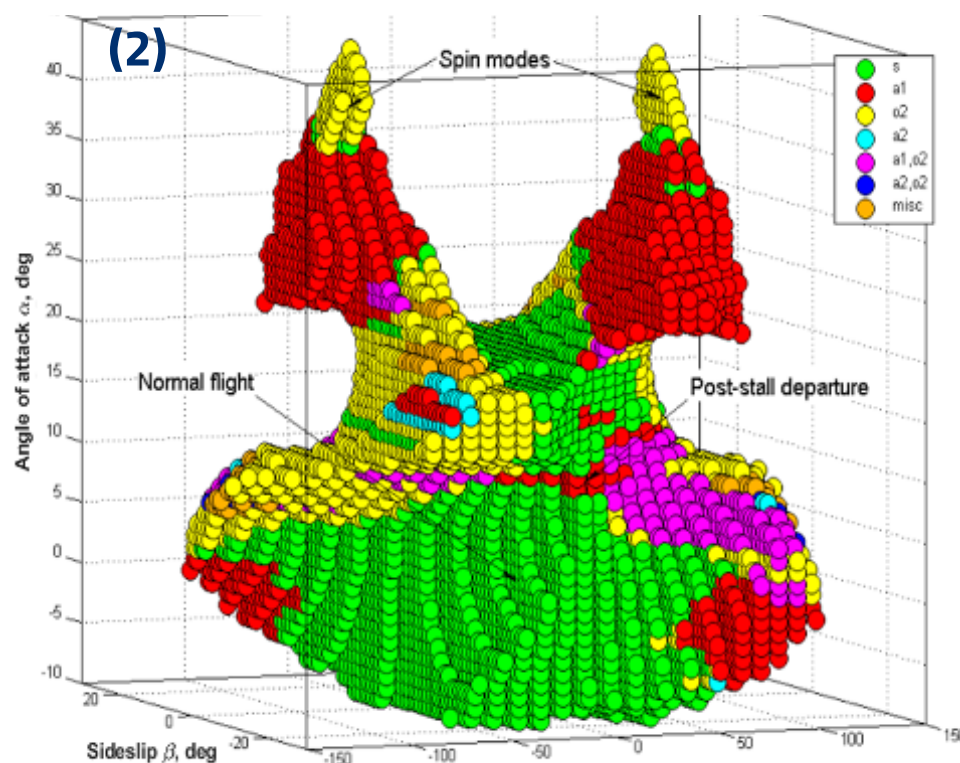
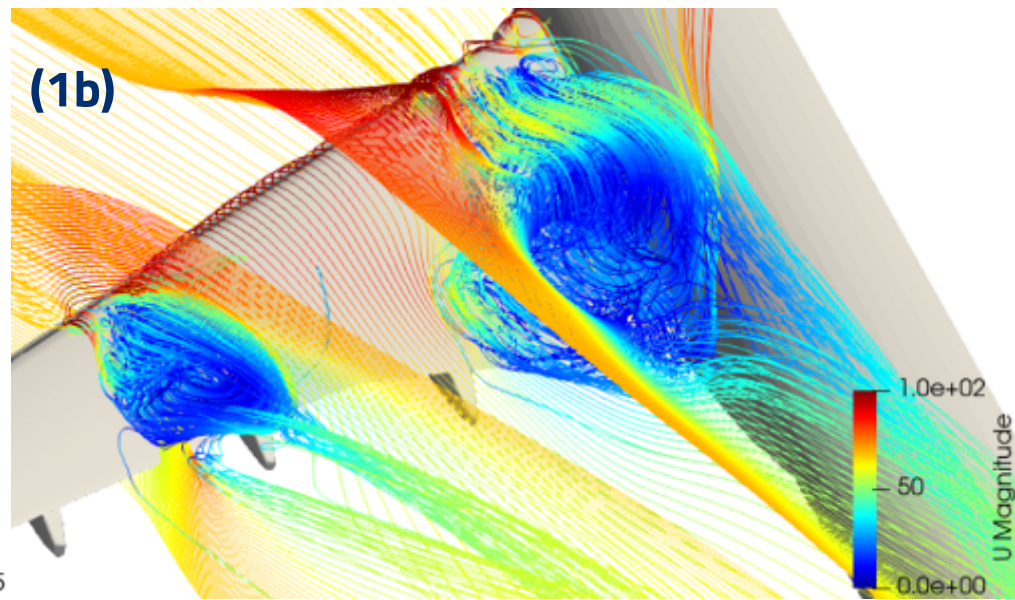
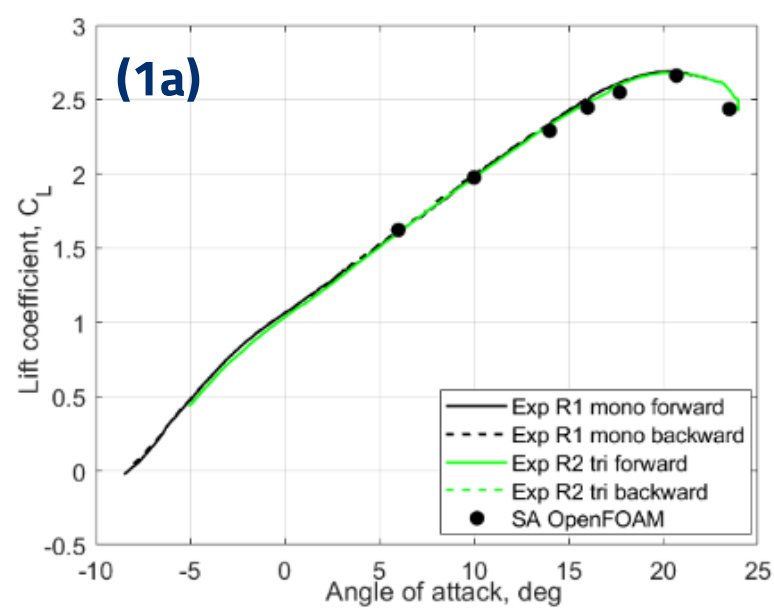
- We have a track record of research that impacts society and makes a real difference to people's lives through improvements to health and well-being, infrastructure, creativity, economic growth, business and civil society.
- DMU is the lead university for the United Nations' Sustainable Development Goal 11 Sustainable Cities and Communities and was appointed in 2025 for a three-year term.
- The university works with the U.N. as the chair of SDG 11 with three other universities, who lead as vice-chairs on teaching and education; outreach and partnership; and research.

ROLE IN THE ATMACA PROJECT

PROJECT PARTNER

- Analysis of ATM communication networks (T2.1)
- Design (T3.1), implementation (T3.2), and testing (T3.3) of IP-based air-ground communication protocol
- Design and implementation of Datalink Context Management application (T4.3)
- System integration (T6.1, T6.2)





DMU Expertise

- Communication systems, including channel coding, peer-to-peer networks, joint source-channel coding, wireless networks, multimedia communication
- Development of aerodynamic models for extended flight envelope using wind tunnels and computational fluid dynamics (CFD) data (1a and 1b)
- Systematic investigation of airplane nonlinear dynamics in normal and extended flight conditions (2)
- Upset Prevention and Recovery Training (UPRT) of pilots was conducted on the AIRFOX UPRT flight simulator at AMST, Austria, using a class-specific airplane aerodynamic model developed by DMU (3)

