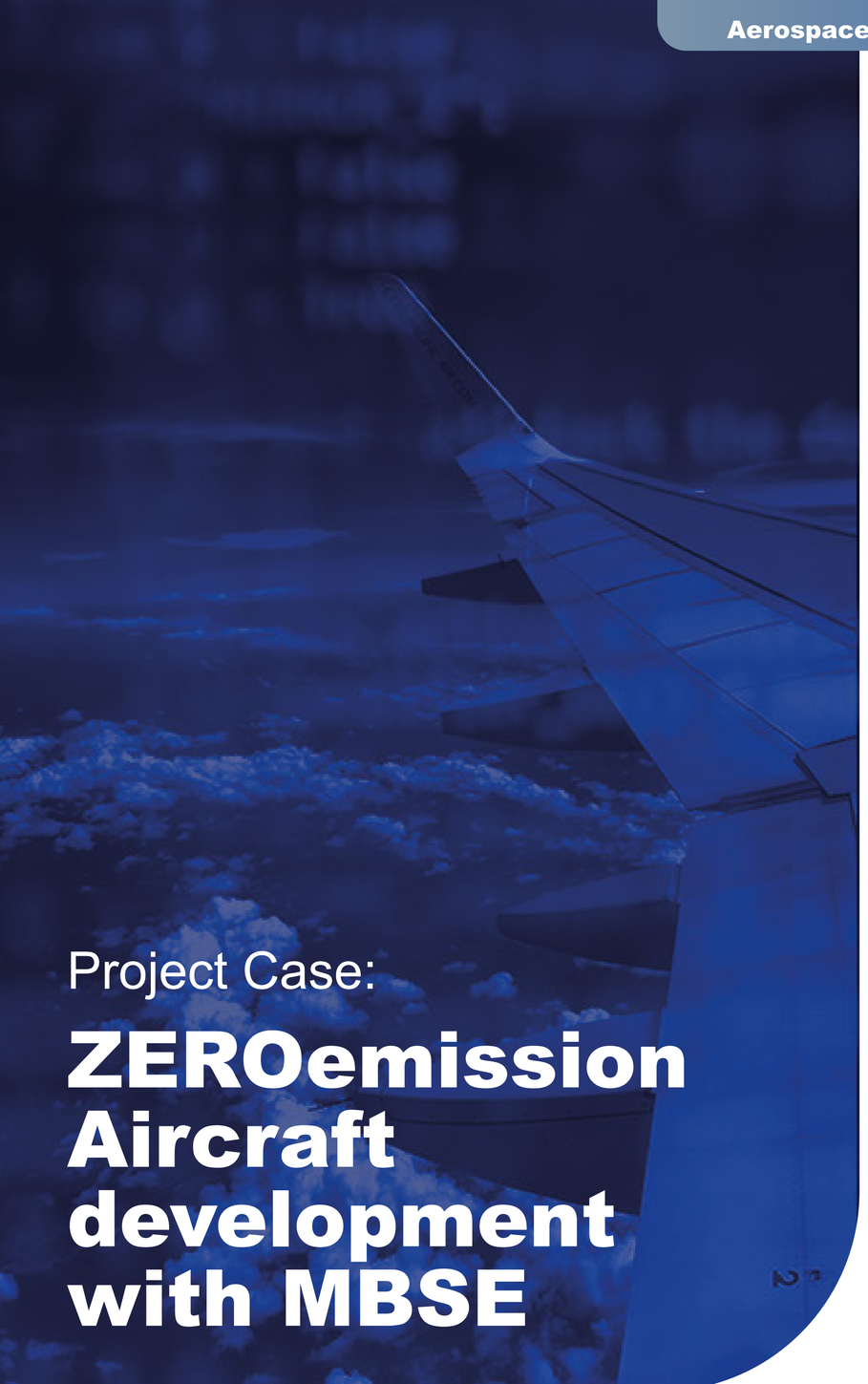

Project Case:

ZEROemission Aircraft development with MBSE

Context:

Today, the development of an innovative program such as ZEROe deals with a lot of documents (GSheet, GDoc, GSlides, diagrams.net,...) defining and containing information which intends to define the future ZEROe aircraft:

- Requirements and pseudo requirements
- Functions
- Concepts
- Technologies and their characteristics
- Parameters, techno characteristics
- Simulation results

A PLACE FOR A CROSS DOMAIN COLLABORATION IS NECESSARY!

Approach:

Define a ZEROe Modelling & simulation strategy In link with SE/MBSE and V&V to successfully adopt MBSE

- Gather existing simulation models, workflows, processes with associated purpose, maturity, interfaces, stakeholder...
- Identify what has to be verified or understood for each system or equipment based on key Learnings and V&V needs,...
- Identify gaps between needs and solutions and build a simulation strategy (updates or new devs, validation tests, coaching...)
- Deploy multi domains, multi-systems, multi-teams simulation methods & tools
- Deploy solutions to manage models and simulation configuration all along their lifecycle

Results:

01 Deploy SE/MBSE to support system definition and V&V
Also to manage key learnings and specify behavioural models

02 Train and support people on System Engineering and MBSE in order to facilitate systems definition, integration and verification at every layer.

03 Define a single source of truth for system engineering content, synchronized and managed in configuration between all teams.

04 Improve existing MBSE means to adapt them to ZEROe needs.

05 2022 MBSE deployment focused on H2 related systems and subsystems (PPS, H2 systems, NPE, A/C ops).

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