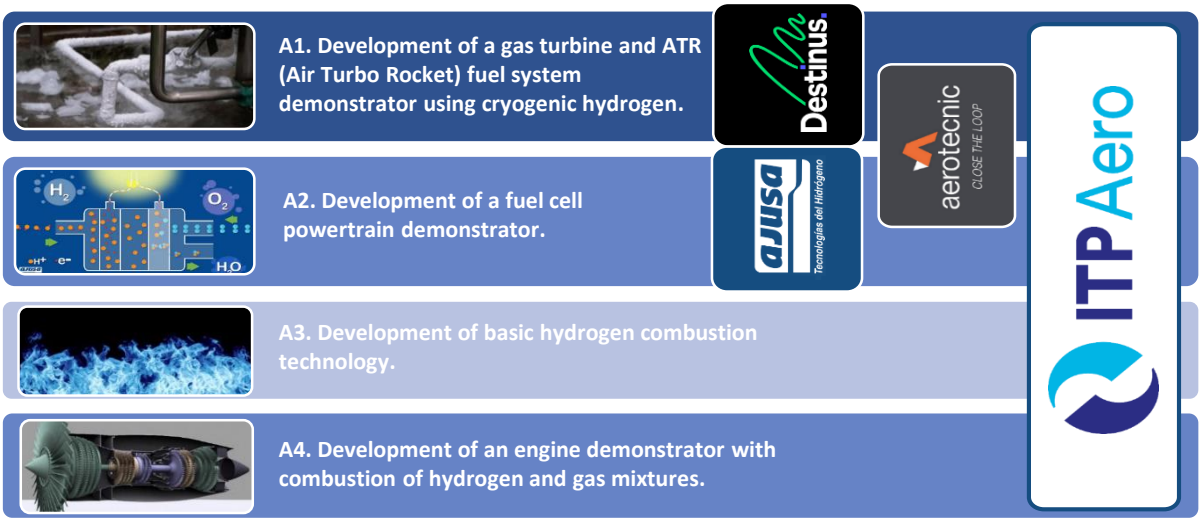
# Cryogenics, fuel cells and hydrogen combustion for air transportation

AEROTECNIC is undertaking the CRIPICOM project to develop enabling technologies for the use of hydrogen as a fundamental energy source for aircraft propulsion and auxiliary systems, encompassing four lines of work:




In this project Aerotecnic develops manufacturing capabilities of critical heat exchanger components for hydrogen propulsion systems and electrification for aviation, positioning itself within the future value chain of hydrogen-based propulsion plants focusing on:

- Manufacture of a **supercritical H2 heat exchanger** for propulsion ("**precooler**") for **hypersonic** hydrogen engine.
- Designing, developing and manufacturing an **intercooler** system for controlling and reducing the temperature of the **hydrogen cell** air input, using **additive manufacturing** designs and technologies.

The COLIBRI project consortium, which will end in September 2025, is led by ITP Aero, and is completed by Aerotecnic Metallic, AJUSA and Destinus.

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