



# Designing, Manufacturing and Operating Quantification of Uncertainties to increase Aviation Safety

The DEMOQUAS project started with a clear goal: to make flying safer and more efficient by better understanding and managing uncertainties in aircraft and engine design. DEMOQUAS aims to deliver a structured and progressive campaign of uncertainty quantification (UQ) activities, considering all life cycle phases from design to manufacturing and operations. This includes safety risk assessments and contributions to virtual certification for the next generation of aircraft and engines.



DEMOQUAS

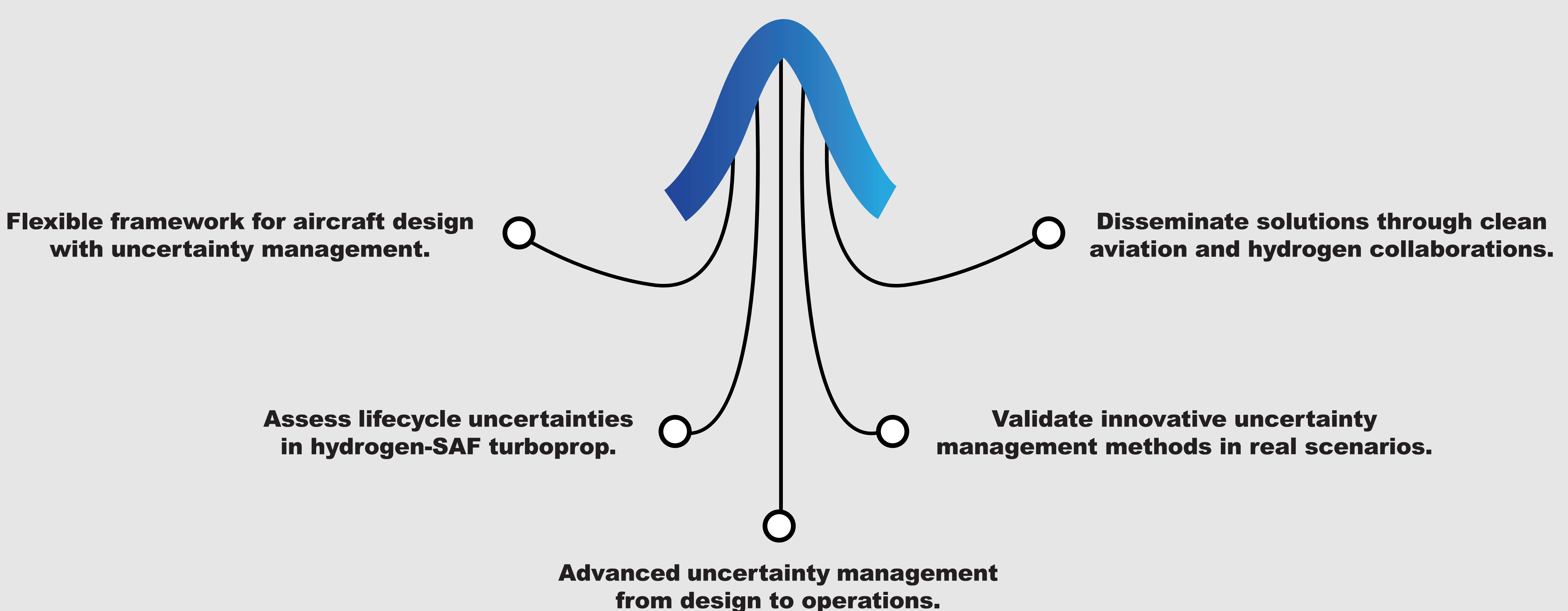


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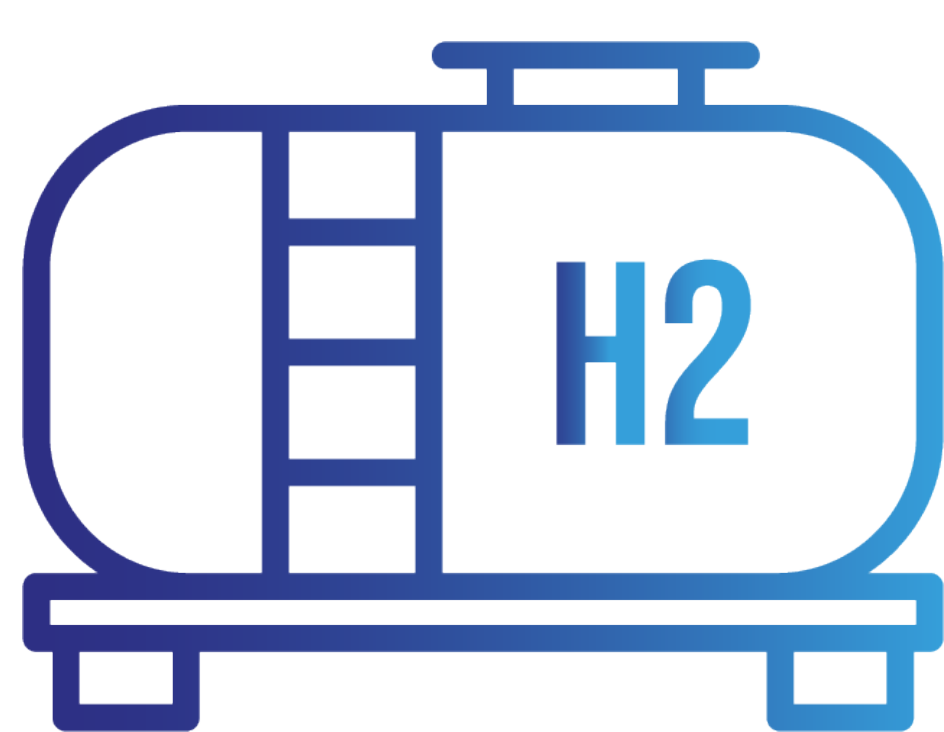


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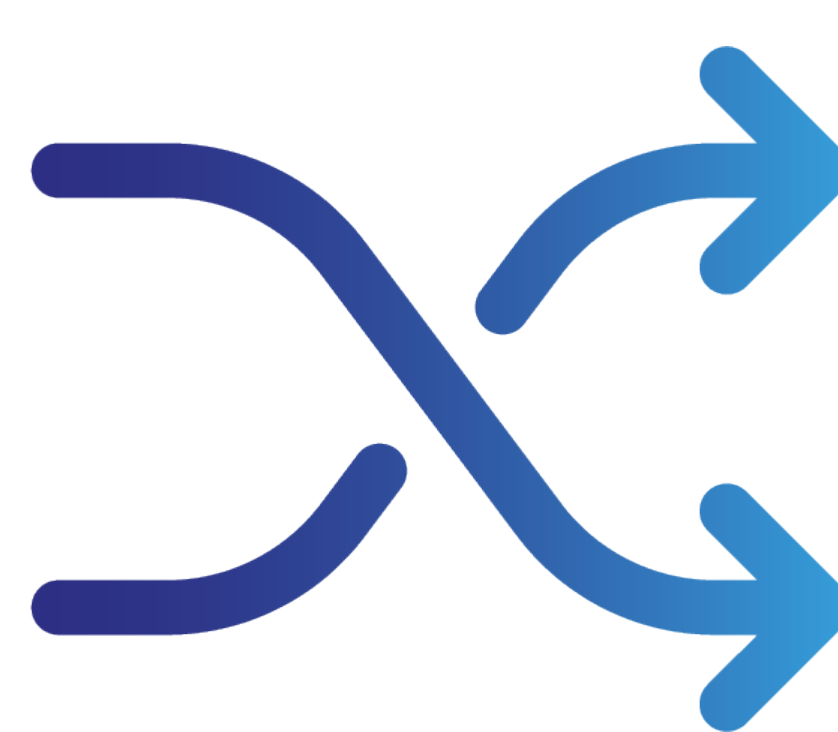
## Main objectives



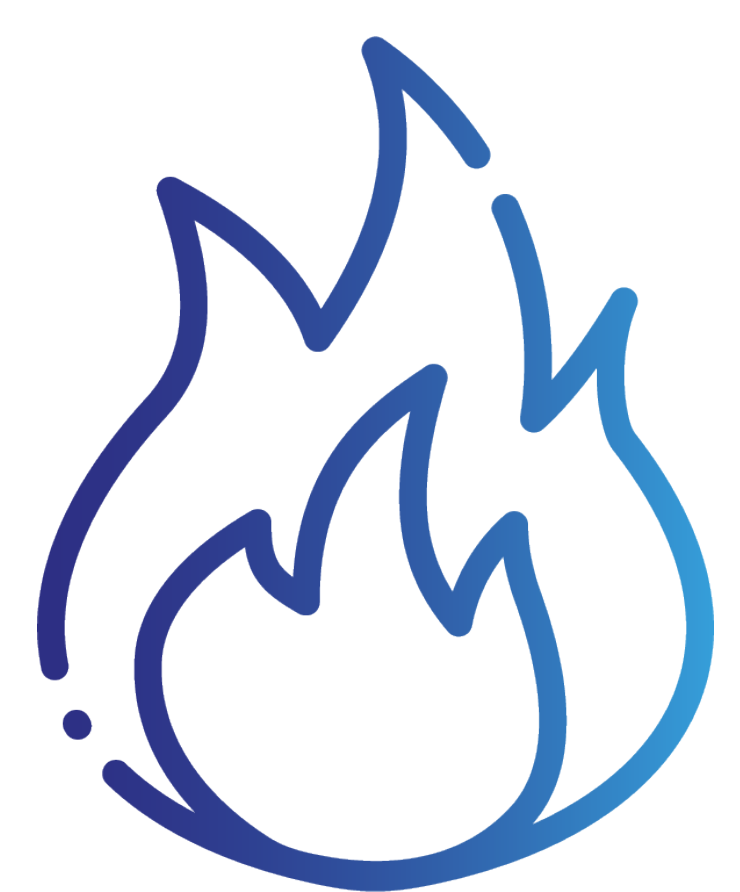
## Test cases



Hydrogen storage tanks



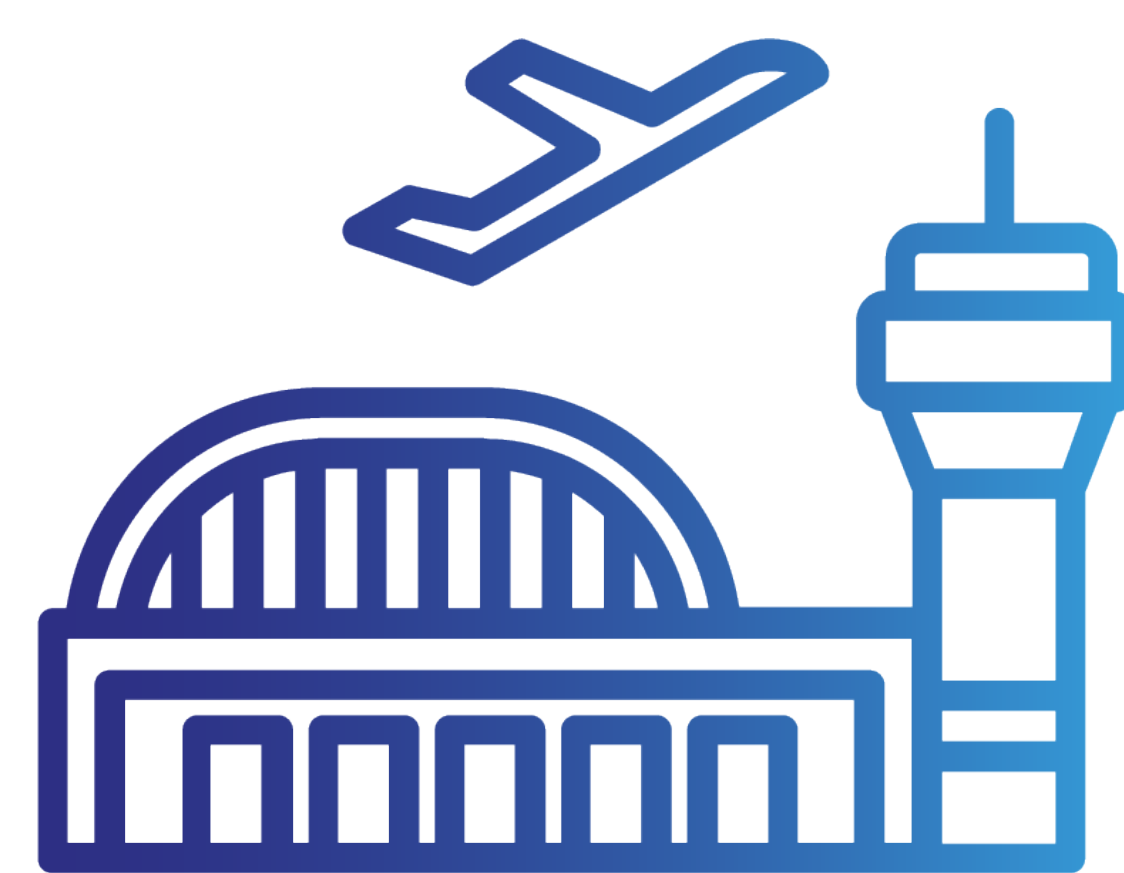
Compact heat exchangers



Combustion

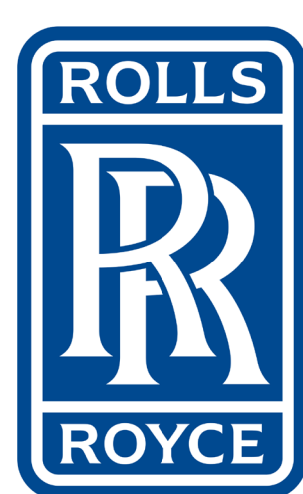


Aircraft engine performance and operational health



Airport and pilot operations including safety risk assessment

## The consortium



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