

AIRCRAFT ENGINES



# SEARCH FOR PARTNERS AND SKILLS

## *CLEAN AVIATION – CALL#1*

April 27th, 2022  
Toulouse



Laurent PALMISANO  
Nancy MALEO



# SAFRAN AIRCRAFT ENGINES main intended participations in call #1

2022-01-SMR-01

## Ultra Efficient Propulsion Systems for Short and Short-Medium Range Aircraft

*Coordination of the  
proposal preparation*

2022-01-TRA-02

## Novel Certification Methods and Means of Compliance for Disruptive Technologies

*Member of the Consortium  
Participation in course of  
clarification*

2022-01-HPA-01

## Direct Combustion of Hydrogen in Aeroengines

*Member of the  
Consortium  
Leader of the Engine Fuel  
System*

+ other topics of interest for the other Safran companies

# Safran AE looking for Partnership

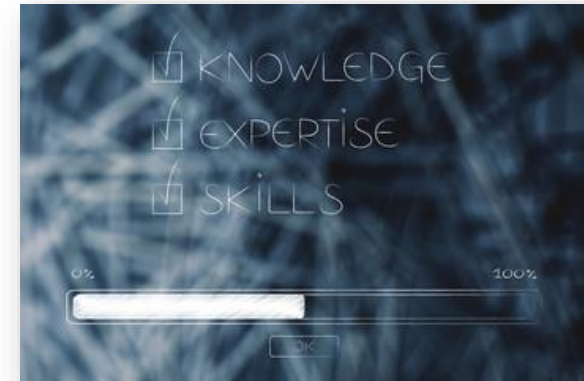
2022-01-HPA-01

Direct Combustion of  
Hydrogen in  
Aeroengines



## ➤ Safran AE search Partners to support design, integration and testing of the H2 engine fuel system for the following functions

- Pumping: cryo pump...
- Heating: Heat Exchanger, Heaters...
- Metering and Isolation: Valves, Sensors...
- Control: Sensors, Controllers, Harnesses...
- Safety Functions: Sensors...
- Isolation, Inerting, Flushing, Chilling Down, Filtering, Conveying: Valves, Pipes, Filters...



**H2 Gas Turbine requires Specific Equipment**

# Safran AE Partnership Process

2022-01-HPA-01

Direct Combustion of  
Hydrogen in  
Aeroengines



## ➤ Major Milestones

- |  |                        |
|--|------------------------|
| <input type="checkbox"/> Safran AE Partnership Process Kick-Off: |                        |
| ◆ Clean Aviation Info Day in Toulouse                            | April 27 <sup>th</sup> |
| ◆ Social Network Campaign launch                                 | April 28 <sup>th</sup> |
| <input type="checkbox"/> Gathering of H2 interested entities     | Beginning of May       |
| <input type="checkbox"/> Assessment of proposals                 | Mid May                |
| <input type="checkbox"/> Partnership established                 | End May                |

**Immediate Boarding to be part of the Adventure**



2022-01-HPA-01

Direct Combustion of  
Hydrogen in  
Aeroengines



**Our challenge :**

**The H2 right flow, pressure and  
temperature at the right time !**

**You are interested in coming on board with us ?**

Your focal point :

**Laurent PALMISANO**

*laurent.palmisano@safrangroup.com*