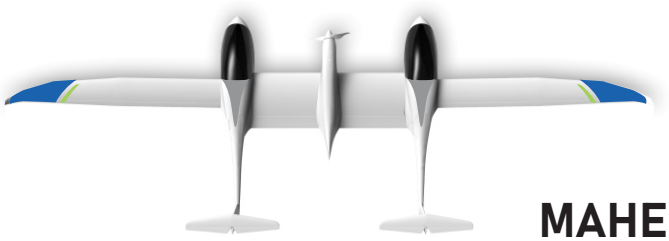
mahepa
Modular Approach to Hybrid Electric Propulsion Architecture





MAHEPA WORKSHOP

SAFETY AND HMI CONSIDERATIONS IN HYBRID-ELECTRIC AVIATION

MAHEPA - Modular Approach to Hybrid-Electric Propulsion Architecture is a research and innovation project, funded under the EU Horizon 2020 programme.

MAHEPA benefits from the cooperation of eight partners, including manufacturing companies, research centers and academia.

In the project, two new hybrid-electric powertrains to enable cleaner, quieter and more efficient aircraft propulsion, have been developed and shall soon be tested in flight. The first uses a fuel-driven generator to charge the batteries and power the electric motor, while the second relies on a combination of batteries and hydrogen fuel cells to enable zero-emission flight.

The workshop will be devoted to two main topics, **safety in hybrid-electric aircraft** and **HMI: novel cockpit environment**.

The first topic will address problems in **safety, reliability** and **efficiency** of hybrid-electric aircraft. The discussion will focus on existing standards, as well as on the integration of **new safety concepts**.

The second topic will be driven by the **test pilots` experience** and by the aircraft manufacturers' perspective of the **needs of future aircraft** in terms of Human Machine Interface (HMI). The discussion will focus on **modern challenges in cockpit design**, including key information shown to the pilot and the **level of automation** required for the next generation of future greener aircraft.

The workshop will feature speakers from MAHEPA consortium partners, as well as policy makers representatives, such as **EASA** and the **European Commission**.

Prior registration is needed in order to attend the workshop.

Be part of it and register now!

Register here

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MAHEPA WORKSHOP:

SAFETY AND HMI CONSIDERATIONS IN HYBRID-ELECTRIC AVIATION

April 2nd, 2020 — **Room Berlin**

REGISTRATION

INTRODUCTION

15:20 – 16:30

SAFETY IN HYBRID-ELECTRIC AIRCRAFT

- Standard safety practice in aviation and other industries
- Innovative and safe powertrain architectures
- Power controllers and related safety issues
- Integrating new concepts in safety, reliability and efficiency

COFFEE BREAK

16:45 – 18:00

HMI: NOVEL COCKPIT ENVIRONMENT

- Engineering HMI requirements in hybrid-electric and electric aircraft
- The pilot's point of view: ergonomics and workload considerations
- Troubleshooting and emergency procedures

FINAL REMARKS

We reserve the right to change or modify the agenda.

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