



# COMMUTER and REGIONAL HYBRID-ELECTRIC AIRCRAFT DESIGN

6<sup>th</sup> October 2022

Workshop Organized by University of Naples Federico II, Dept. of Industrial Engineering  
*AULA MAGNA Congress Centre of University of Naples, Via Partenope, 36 NAPOLI*

## PRELIMINARY AGENDA

(October, 6<sup>th</sup>, 2022)

*AULA MAGNA Congress Centre Via Partenope, 36*

09:00 - 09:10 Introduction to the Workshop (F. Nicolosi, Univ. of Naples)  
09:10 - 09:20 Introduction from local Institutions  
09:20 - 09:40 Industrial vision for reg hybr/electric A/C (G. Piscopo, LEONARDO)  
09:40 - 10:00 Industrial vision for reg hybr/electric A/C (S. Lanzan Ferran, AIRBUS)  
10:00 - 10:20 TECNAM projects for GA and Commuter: H3PS and P-volt (F. Russo, TECNAM)

### **Coffee Break (10.20-10.50)**

10:50 - 11:10 CS2 and CA view on hybrid/electric configurations (A. Marino, Clean Aviation JU)

### **Session on Commuter Hybrid/Electric A/C**

11:10 - 11:30 Presentation from PIAGGIO AERO (A. Cozzolino, PIAGGIO AEROSPACE)  
11:30 - 11:50 Presentation project HECARRUS (V. Gkoutzamanis, Aristotle University of Thessaloniki)  
11:50 - 12:10 Presentation project ELICA (Q. Zhang, Rolls-Royce/V. Marciello, Univ. of Naples)  
12:10 - 12:30 Presentation project UNIFIER19 (D. Erzen, PIPISTREL)  
12:30 - 12:40 Open discussion on Commuter hybrid/electric perspectives  
12:40 - 13:00 HighSpin and MATISSE - Aviation battery research in Horizon Europe (M. De Gennaro, AIT)

## **Lunch 13:00 - 14:00**

### **Session on Regional Hybrid/Electric A/C**

14:00 - 14:20 REG-AIRCRAFT IRON Project (F. Nicolosi, Univ. of Naples/ G. Mingione, CIRA/ V. Mariniello, LEONARDO)

14:20 - 14:40 IMOTHEP Project (P. Iodice, LEONARDO)

### **Session on hybrid-electric powertrain design**

14:40 - 15:00 Hybr/Electric Aircraft powertrain design (S. Calabrini, AVIO AERO)

15:00 - 15:20 Hybr/Electric Aircraft powertrain design (P. Miller/Q. Zhang, ROLLS-ROYCE)

15:20 - 15:40 Fuel Cell Requirements for Civil Aircraft Applications: SAFRAN Perspectives and Outlook (A. Isikveren, SAFRAN)

15:40 - 16:00 Hybr/Electric Aircraft powertrain design (F. Armbrüster, MTU)

### **Coffee Break (16:00-16:30)**

16:30 - 16:45 DLR vision and activities on hybr/electric aircraft (T.Zill, DLR)

16:45 - 17:00 CIRA vision and activities on hybr/electric aircraft (G. Mingione, CIRA)

17:00 - 17:30 FUTPRINT50 Project and Embreair vision for future regional hybrid aircraft (T. Kipouros, Cranfield/R.F. Gama Ribeiro, EMBRAER - Virtual)

17:30 - 17:50 Presentation from NASA (if available) (NASA - Virtual)

### **Conclusions**

17:50 - 18:00 Conclusions