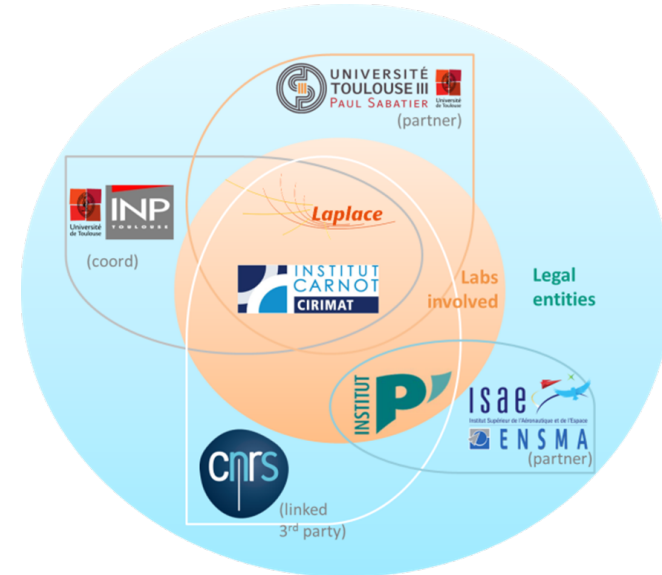
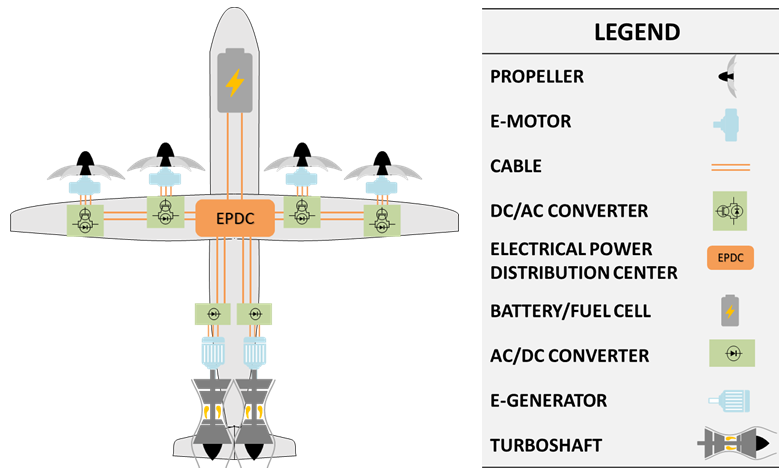


## SERIAL HYBRID ELECTRIC ARCHITECTURE



- High specific power electric motors: towards and beyond 10kW/kg for 2035 !
- Highly integrated power electronics: towards and beyond 25kW/kg for 2035 !
- High efficient motor and power electronic cooling solutions: the thermal challenge!
- Facing partial discharges in electric motors and power electronics for ultra HVDC bus
- State of the art of new alternative technologies for batteries and fuel cells
- System integration of the overall hybrid power chain

WP1  
WP2  
WP3,4  
WP5  
WP6



# Program of the HASTECS dissemination workshop



9.50-10.00: “about the HASTECS project”, X. Roboam (LAPLACE)

10.00-10.15. Key Figures and challenges of Airbus R&T on hybrid propulsion, J. F. Allias (Airbus)

10.15-10.45: High specific power electric motors: towards and beyond 10kW/kg for 2035!, WP1, S Touhami (LAPLACE)

10.45-11.15: Highly integrated power electronics: towards and beyond 25kW/kg for 2035!, WP2, N. Erroui (LAPLACE)

11.15-11.45 High efficient motor cooling, WP3, A. Zeaiter (PPRIME)

11.45-12.15 High efficient power electronic cooling solutions, WP4, F. Accorinti (PPRIME)

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**12.15 13.45 Lunch buffet C101-103**

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13.45 14.15 Facing partial discharges in electric motors, WP5, Ph. Collin (LAPLACE)

14.15-14.45: Facing partial discharges in power electronics for ultra HVDC bus, WP5, M. Banda (LAPLACE)

14.45-15.15: State of the art and preliminary models of new alternative technologies for batteries and fuel cells, WP6, M. Tognan (LAPLACE)

15.15-15.45 System integration of the overall hybrid power chain, WP6, M. Pettes (LAPLACE)

**15.45 – 16.30 Coffee and closing discussion per WP**



29/10/2018

**AIRBUS**