# H2020 EPICEA PUBLIC WORKSHOP 13 JUNE 2019

ELECTROMAGNETIC PLATFORM FOR LIGHTWEIGHT INTEGRATION/INSTALLATION OF ELECTRICAL SYSTEMS IN COMPOSITE ELECTRICAL AIRCRAFT

# EPICEA PLATFORM DEMONSTRATION

OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES (ONERA)

Toulouse, France

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https://ec.europa.eu/programmes/horizon2020 http://caric.aero http://www.nserc-crsng.gc.ca

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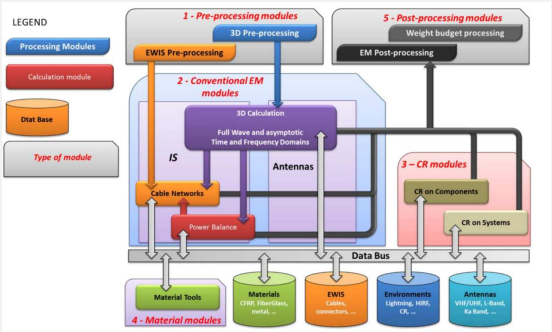
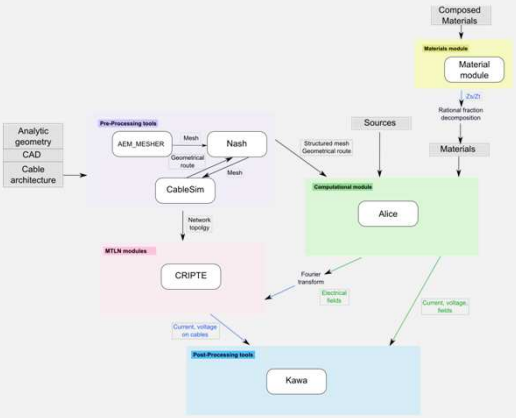
## EPICEA PLATFORM

- Partners collaboration on EPICEA numerical test cases, the need for common tools has emerged for :
  - Share data between partners
  - Interoperability of modules
  - Mutualization of works
  - Results comparisons
- EPICEA plaform:
  - Collaborative tool
  - Allow integration of heterogeneous modules
  - Based upon a standardized format for scientific data : Amelet-HDF format



# IS SCENARIO : MIX DOMAINS

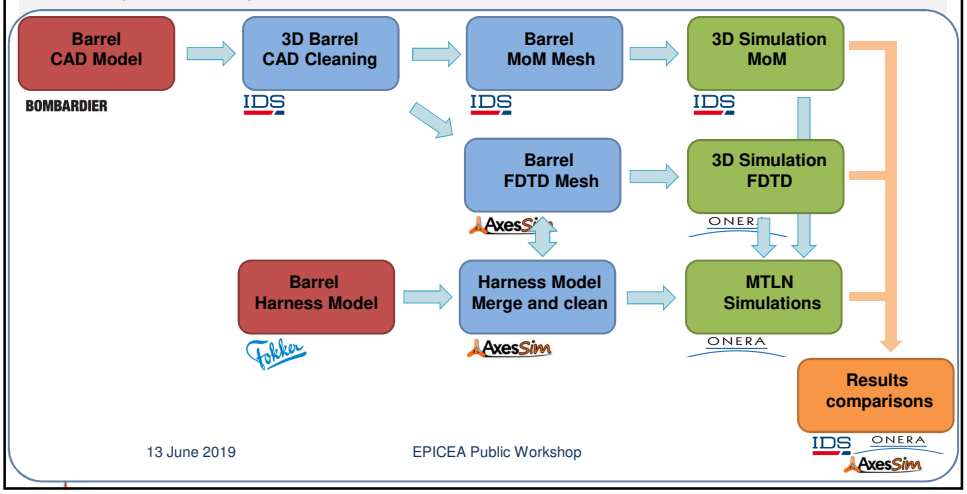
- Presentation of scenarios based upon the barrel. Results obtained for :
  - Full Alice with no MTLN ;
  - MTLN with CRIPTE with fields from ALICE and Galileo
    - Mono-wire
    - Harness
- Involved modules are :
  - Cable pre-processing : CableSim (Axessim)
  - FDTD Mesher : Nash (Axessim)
  - 3D code : Alice (ONERA) and Galileo (IDS)
  - Network : CRIPTE : (ONERA)
  - Results analysis : Kawa (Axessim)






# COLLABORATIVE WORK ON THE BARREL

- Results obtained for the barrels are the results of a collaborative work between the partners to generate the data and simulations.



# THANK YOU FOR YOUR ATTENTION! ANY QUESTION?



# THANK YOU

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