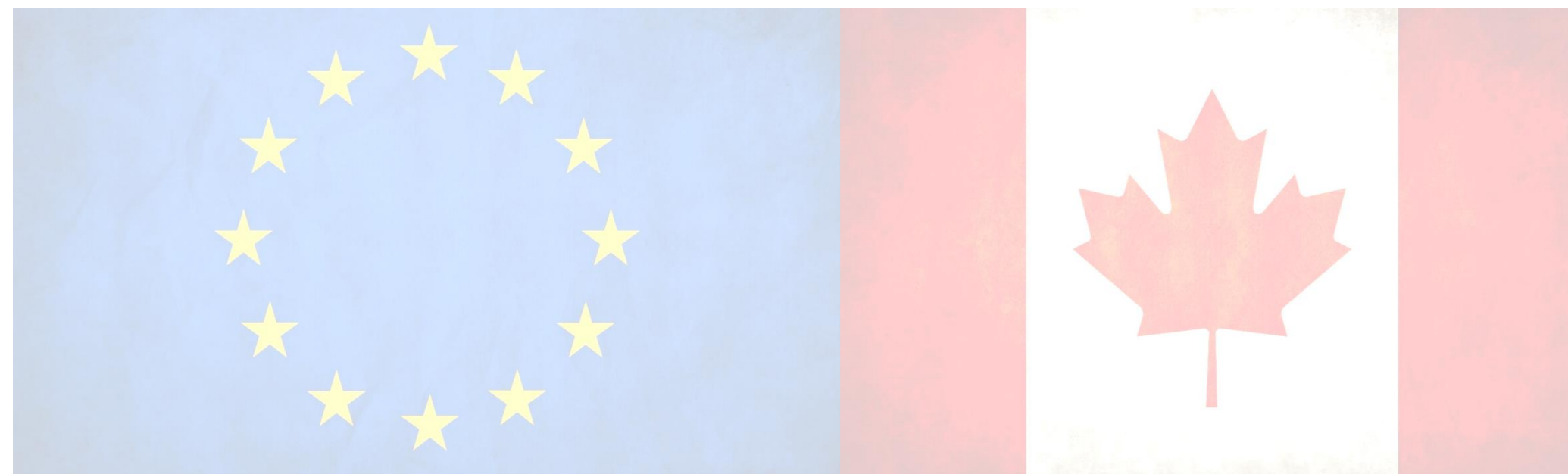




Electromagnetic Platform for lightweight Integration/Installation of electrical systems in Composite Electrical Aircraft

This three-year EU-Canadian joint research venture called “EPICEA” is to release, validate and verify a unique computer environment (i.e. the EPICEA platform) assimilating a complete understanding of electromagnetic (EM) issues on Composite Electric Aircraft (CEA - i.e. aircraft with composite and electric technologies combined and operating at higher altitude/latitude). EM on CEA includes EM coupling, interconnects, and Cosmic Radiations (CR) on electrical systems together with new concepts of antennas designed to maintain performance in composite environment without modifying aircraft aerodynamics. In EPICEA, CR, as parts of the EM spectrum, are considered as part of the EM environmental hazards such as lightning or HIRF (High Intensity Radiated Fields). The targeted computer platform will support a decision making process for selection of the best strategy for the integration of electrical systems.



ABOUT THE EU-CANADA COORDINATED CALL FOR RESEARCH PROJECTS IN AERONAUTICS - 2015

This first ever Coordinated Call in Aeronautics is the culmination of 4 years of a sustained dialogue between Canadian and European experts under the CANNAPE Coordinated Action. Canada and Europe financially support three successful teams whose research programs aim to address areas that are important to our sector: *Reducing environmental impact through advanced design, Resource-efficient high-performance advanced-materials and manufacturing, More electrical aircraft and systems integration.*

28 partners from 14 different countries are involved in the selected projects.

PROJECT START: February 2016 **DURATION:** 3 years



FUNDING PARTNERS

