



Horizon 2020 framework program

Progetto: IMOTHEP (“Investigation and Maturation of Technologies for Hybrid Electric Propulsion”) (2020-2024)

Project will perform an in-depth investigation of electric technologies for hybrid electric aircraft in close connexion with advanced aircraft configurations design and innovative propulsion architectures taking advantages of synergies between propulsion and airframe.

Analysing potential technologies and technical issues at the relevant scale is fundamental for hybrid electric propulsion and addressing the challenge of climate change requires exploring the technology for commercial aircraft that represents the bulk of current airlines' fleets and aviation's emissions. This is the central focus of IMOTHEP.

The ultimate goal of the project is to achieve a key step in assessing the potential of hybrid electric propulsion for reducing the emissions of commercial aviation and eventually to build the technology roadmap for its development.

The IMOTHEP consortium gathers the European major airframers, Airbus and Leonardo;

Leading engines manufacturers, Safran, GE Avio, MTU, ITP, and GKN,

European aeronautic research organization from EREA, ONERA, AIT, CIRA, DLR, ILOT, INCAS and NLR,

Universities, Université de Lorraine, ISAE/Sup'Aéro, Strathclyde University, TU Braunschweig, Politecnico di Bari, Chalmers University and the University of Nottingham,

The think tank Bauhaus Luftfahrt, Eurocontrol, L'Up.

In addition, IMOTHEP develops cooperation with Russia, with the involvement of five leading research organisation, CIAM, GosNIIAS, MAI, NRC, TSaGI, as well as with the NRC in Canada.

Atitech is part of sectorial Advisory Borad within IATA, Institut Simon Laplace, KIT, TU Delft, TAP, Lufthansa Technik.