AIRPED: Fire Risk Associated to the Presence of PEDs/Batteries in the Cargo Hold (Enzo Canari, European Union Aviation Safety Agency (EASA))

The presentation will provide an overview on the scope and on the status of the AIRPED research project, which is part of the Horizon Europe Work Programme 2021-2022, Cluster 5: Climate, Energy and Mobility. The objectives of the project are:

- to conduct testing involving PEDs contained in passenger's checked baggage in order to accurately characterize the fire risk (initiation, growth, propagation) within a cargo compartment representative of current large transport aircraft (Class C);
- to assess if the level of performance of the fire protection systems of Class C cargo compartments is sufficient to cope with that fire risk;
- to generate test evidence to support the revision of the Minimum Performance Standard ("MPS") for halon replacement in cargo compartments, with particular focus on the introduction of an additional cargo fire scenario involving lithium batteries/cells;
- to perform similar full-scale tests as in the Sabatair project, evaluating the effects of an external fire scenario on lithium batteries/cells protected by a FCCs.