

PROJECT

GALAHD

General and Light Aviation Head-up Display

Funding: European (Horizon 2020)

Duration: Aug 2016 - Nov 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



[CORDIS RCN : 205160](#)

Objectives:

A head-up display (HUD) is a semi-transparent screen placed above the cockpit in the direction of the forward view that displays the flight parameters derived from flight instruments on windshield, allowing pilots to keep their look on windshield without being forced to monitor cockpit's instrumentation. This kind of display is widely used in commercial and military aircraft, since it plays a significant role in supporting pilots and reducing collision risk with terrain. However, HUD combines expensive and complex technologies, bringing to a high minimum selling price of roughly €40,000 for the more expensive sector of business aviation. This amount is not affordable for general aviation (GA) users, which represent the majority of world air traffic with 103,000 aircrafts based in Europe in 2014. Therefore, terrain collision accidents mainly take place in general aviation, representing 81% of cases and 17% of victims. In this context, GalaHD proposes a ground-breaking device, based on HUD technology, designed to reduce pilot workload and support the aircraft control with a clear and intuitive interface and, at the same time, reduced development costs. Known as GalaHD - General And Light Aviation Head-up Display -, our approach is to introduce a navigation device based on Head-Up Displays (HUD) technology in Light-sport Aviation (LSA) and later certify it for use on normal category planes (CS-23 - Utility, Aerobatic and Commuter Aeroplanes - EASA). The exploitation of GalaHD will lead to international growth of the consortium members. Furthermore, a widespread deployment of GalaHD will significantly reduce the number of accidents across general aviation throughout Europe.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Asteravia Di Melega Massimo & C. S.a.s.

Address:

VIA DOZZA 174
40065 PIANORO
Italy

EU Contribution: €50,000

Partner Organisations:

Aerlyper Sa

Address:

LG AEROPUERTO DE CUATRO VIENTOS
28044 MADRID

Spain

EU Contribution: €0

Technologies:

Cabin and cockpit design

Cockpit-based technologies for improved pilot workflow

Development phase: Research/Invention

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other