

PROJECT

ANGI-HUD

Next Generation Cockpit HUD Integration

Funding: European (Horizon 2020)

Duration: Sep 2016 - Aug 2019

Status: Complete

Total project cost: €1,298,540

EU contribution: €998,540



Call for proposal: H2020-CS2-CFP02-2015-01

[CORDIS RCN : 205575](#)

Objectives:

The ANGI-HUD (Advanced Next Generation Intelligent Head Up Display) proposal responds to the 2nd Call for Proposals of the Clean Sky 2 Joint Undertaking under the topic JTI-CS2-2015-CFP02-LPA-03-06 "Head Up System integration in next generation cockpits". The consortium can meet the technical challenges.

Within IADP LPA Platform 3 ("Next Generation Aircraft Systems, Cockpit and Avionics") a number of new and advanced functions are developed and demonstrated that will be considered and elaborated on in the ANGI-HUD project. Specifically, the ANGI-HUD activities will line up with the work performed under WP3 of the Clean Sky 2 Joint Undertaking.

The main objective of the ANGI-HUD project is to analyse how the capacities of the Head Up Display could be used to provide new functionalities, in combination with other visualization means, and to demonstrate them on a fixed-based simulator. The ANGI-HUD project will contribute to the analysis of potential new functionalities, prototype the intended new Man Machine Interface, provide the Airframer with two representative Head Up Systems, including rapid prototyping capacities, and participate to, and support, bench tests at the Airframer's simulation facilities. A rather novel and ambitious aspect will be the development of the so-called 'eyes- out cockpit concept'; i.e. the capability to perform approaches and landings only using the information displayed on the ANGI-HUD and via HUD-integrated eye tracking technology.

The comprehensive experience of the partners in the areas of head up systems, head up symbology design, flight simulation, cockpit design, human factors evaluations, as well as experience in simulator and flight testing of airliners and business jet flight operations motivated the common application to this call. The specific skills and know-how of each partner and their complementarity are crucial for demonstrating a higher TRL for the technologies considered here.

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:

Elbit Systems Ltd

Address:

Advanced Technology Center
Haifa 31053
Israel

Organisation Website:

<http://www.elbitsystems.com>

EU Contribution: €700,000

Partner Organisations:

Stichting Centrum Voor De Ontwikkeling Van Transport En Logistiek In Europa

Address:

Van Nelleweg 1
3044 BC Rotterdam
Netherlands

Organisation Website:

<http://www.cetle.org>

EU Contribution: €298,540

Technologies:

Cabin and cockpit design
Futuristic passenger-centered cabin design

Development phase: Research/Invention

STRIA Roadmaps: Cooperative, connected and automated transport

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Geo-spatial type: Infrastructure Node