

PROJECT

HIRIS

Helicopter Innovative Rotating Instrumentation System

Funding: European (Horizon 2020)

Duration: Mar 2018 - May 2021

Status: Complete

Total project cost: €2,709,575

EU contribution: €1,500,000



Call for proposal: H2020-CS2-CFP06-2017-01

[CORDIS RCN : 213934](#)

Objectives:

HIRIS objective is to provide an efficient TRL 6 Flight Test Instrumentation equipment for the Main Rotor (MR), the Lateral Rotor and the Drive Shafts (DS) systems fully adapted to specific configuration and needs of the Fast Rotorcraft demonstrator.

The innovation comes from a hybrid solution of proven and tested technologies, in use for legacy solutions in order to ensure energy transmission on rotating parts. 3 different devices will be developed for the Main Rotor, the Lateral Rotor and the Drive shaft systems of the Fast Rotorcraft.

For the developments, it is decisive to implement disruptive solutions for contactless and wireless instrumentation of rotary parts that will drastically improve reliability, availability and flexibility regarding legacy solutions. For a helicopter manufacturer, this may become a significant competitive advantage as rotors are the most critical parts of the aircraft. It will however, imply many modifications in the usual way to conceive solutions hence forcing to imagine an “unusual” instrumentation system. The HIRIS (Helicopter Innovative Rotating Instrumentation System) proposal offers answers to such challenge.

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)

Other programmes: JTI-CS2-2017-CFP06-FRC-02-27 Rotor’s Flight Test Instrumentation on demonstrator Fast Rotorcraft Project

Lead Organisation:

Zodiac Data Systems

Address:

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91978 COURTABOEUF
France

EU Contribution: €1,500,000

Technologies:

Fast Rotorcraft

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport

Transport policies: Other specified

Geo-spatial type: Other