CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Start-Up Opportunity

AELOUS

Airborne Maritime Mid-Altitude Sensor Platform

THE PROBLEM

Navies across the world are being asked to deliver more civil and military services on tighter defense budgets.

Current monitoring systems fitted to ships can monitor out to 14 Nautical Miles (Nm) - as at that point the curvature of the earth begins to hide objects behind the horizon.

THE SOLUTION

AELOUS is a mid-altitude airborne maritime sensor platform which dramatically increases the operating surveillance range by increasing the elevation of the monitoring systems. The Aeolus platform can effectively operate at 450m above the ship - increasing the surveillance area in excess of 11 times of what can be monitored with existing solutions.

With its integrated power management and wireless communication capabilities the Aeolus platform can operate for extended periods of time while continuously transmitting live data to the bridge.

The **AELOUS surveillance platform** contains:

- Radar
- AIS and wideband spectrum monitoring
- Wireless Communications
- HD Camera
- Stabilisation mechanism
- Radio Signal Detection and Direction Finding
- Data processing SW and user interface
- Mechanical and system housing

STAGE OF DEVELOPMENT

CIT & UL are currently completing an Enterprise Ireland funded Commercialisation Fund project to develop the technology into a working prototype. To date the AELOUS platform has been successfully flown with a Minimum Viable Product due to be completed in the Q3 2017.

The project will next proceed to a sea based trial which will be carried out by the Irish Naval Service.

INVESTMENT MILESTONES

CIT & UL are seeking business partners with the necessary contacts network, experience and skills to become involved in a Spin-out company focused on commercialising this technology.

For more information please contact:

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