

**HMRC EIS Advanced Assurance Granted**

# VN Aerotoxic Detection Solutions Ltd seeks £600,000 development capital for prototyping, field testing and certification



**Viridis Navitas**  
Capital Partners

[www.vn-cp.co.uk](http://www.vn-cp.co.uk)



Sector:  
**Aviation**

Stage:  
**Development**

Location:  
**London**

Roles available:  
**Not hiring**

This Round 2 £600K EIS fundraise is to design, manufacture and certify 100 handheld prototype units for distribution to Cabin and Aircrew throughout the aviation industry.

Monetisation of this technology will be through technology licencing agreements with new aircraft manufacturers and sales of handheld devices to operators of existing fleets. Aircraft manufacturers and operators are under significant pressure by way of public enquiries and employee legal actions following the discovery of the organophosphate Tricresyl Phosphate, or 'TCP' in the aircraft cabin, by way of 'fume events'. Today there are no 'real time' detectors available.

## Why does the opportunity exist?

- Aircraft 'Fume Events' are calculated to happen on 1 in 100 flights daily (Neurotoxins present in the cabin during flight or upon start-up). Lubrication oil in the turbine is burnt due to seepage and/or leaks, the organophosphates in the oil are released and mix with 'fresh air' through the aircraft bleed-air-system
- Multiple reports by flight crew & cabin staff of these incidents & their physical side effects on crew and passengers
- Numerous 'black out' & resulting 'near fatal' incidents reported by flight crew to their airlines

## How proven is the technology?

VN-ADS uses fibre-optic-based technology to detect Tricresyl Phosphate (TCP) and other poisonous compounds in real time. Patents granted in UK & USA and new patent investigation underway. Stage 1 development has delivered:

1. Design, build, test & proof for an 'Air Quality' detection device
2. Software to gather raw data and produce compliance reporting
3. Integration into a portable device
4. Independent Peer review by Emeritus Professor Derek Frey of Cambridge University.

## How will it make money?

- Licencing of 'built-in' technology to aircraft manufacturers for new aircraft
- Hand-held sensor sales to aircraft owners & operators for existing fleets
- 1-2 years in development before potential revenues.



**For more information, please contact:**

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