



Billund, Denmark, 24 January 2019

# SAFETY SYSTEMS FOR DANISH HEALTHDRONE PROJECT

**An innovation project with drones carrying blood samples, and later on highly specialized healthcare professionals is being announced today.**

Scandinavian Avionics is a partner in the danish three-year innovation project called HealthDrone. The project is a collaboration between 6 partners and is funded by Innovation Fund Denmark.

The aim is to develop and test HealthDrones to transport patient samples, medicine and medical equipment between hospital units, medical practices and home-visiting nurses. In the long term, drones will also transport persons, such as highly specialized doctors, who may be acutely lacking in an operating room.

With a substantial experience and knowledge in aviation, Scandinavian Avionics will contribute to the project and provide air- and ground safety through certified avionics systems, including infrastructure and Sense-and-Avoid technology.

## **HealthDrones will fly over Funen and islands**

The initial tests of the HealthDrones will be carried out in the UAS Test Center in HCA Airport by Odense. Later the HealthDrones will be tested in a corridor between Ærø, Svendborg and Odense. The researchers expect the HealthDrones to fly the route between Svendborg hospital and Odense University hospital in less than an hour. Today the transport time of patient samples is an average of 12 hours.

**“ In the project we will be testing the drones in flying out of sight, what we call BVLOS, in a corridor between OUH, Svendborg Hospital and Ærø. This requires close cooperation with the Danish Transport Authority which will be issuing the licenses. We must guarantee that the drones fly as safely as ordinary aircraft. The drones will be equipped with security systems that take over and land the drone safely if something unexpected happens.**

*Researcher Kjeld Jensen from SDU UAS Center*

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### Collision Avoidance, Tracking & ID System

The CATI system (Collision Avoidance, Tracking & ID System) developed by Scandinavian Avionics, consists of two transponders – one as airborne station, mounted on the drone, and one as ground station, receiving live data with position, speed, direction, height and identification.

#### Airborne Station

Size: 19 mm x 23 mm x 69 mm  
Weight: Less than 50 g



#### Ground Station



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# HEALTHDRONE PARTNERS

Funding: Supported by Innovation Fund Denmark with a grant of 14 mio. DKK and a total budget of more than 30 mio. DKK.

Partners: Autonomous Mobility A/S, Falck A/S, Unify, Scandinavian Avionics A/S, Odense University Hospital (OUH), and University of Southern Denmark (SDU).



[www.sundhedsdroner.dk](http://www.sundhedsdroner.dk)

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## SCANDINAVIAN AVIONICS A/S – MEMBER OF THE SA GROUP

Scandinavian Avionics (SA) provides complete turn-key avionics solutions for civil and military aircraft, helicopters and drones. Including sales, avionics maintenance (MRO), certification (STC), design & engineering, installation, product development, production, training and consultancy services.

The SA Group consists of 11 divisions located in Europe, the Middle East, South- and Southeast Asia. The headquarters, which was established in 1978, is located in Billund, Denmark.

### Approvals

EASA Part-145 | EASA Part-21J | EASA Part-21G | EASA Part-147

FAA Part-145 | TCCA Part-145 | + A number of local Maintenance Organization Approvals

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