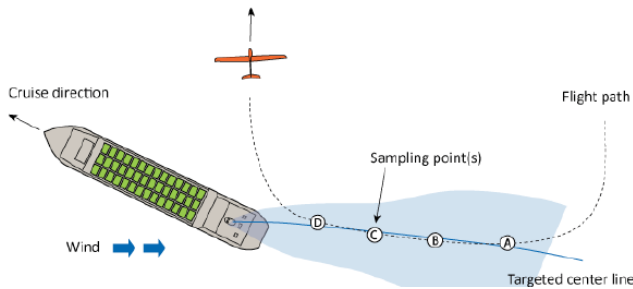


# Free the Drones Project

## Development of Drones that Fly Freely and Safely Beyond Visual Line of Sight



Explicit I/S monitoring ship emissions B-VLOS

### Background:

European Commission predicts within 10 years drones will account for 10% of the total aviation market, estimated around EUR 15 billion a year.

Today drones must stay within visual contact of the pilot in order for them to steer around obstacles in the air.

To realize their commercial potential, drones must be able to fly freely!

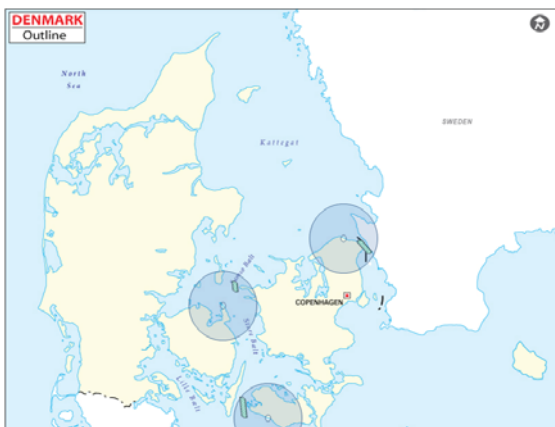
### FreeD Project Goal:

Enhance BVLOS technology to unlock the commercial potential of drones and establish Denmark as a key leader in the global commercial drone market.

### Project Details

FreeD project partners investigate new technologies within:

- Reliable Communications
- Failsafe Hardware and Software
- Detect and Avoid systems using bio-inspired echolocation from bats and optical flow from insects.



Map depicting potential radar sites for FreeD Project

### Future Perspective:

Drones that are able to fly beyond visual line of sight will open new areas of the drone industry such as:

- Inspections
- Precision Agriculture
- Surveying Transportation
- Environmental Enforcement.

Oxford Research estimates a potential of 12,000-15,000 new jobs if Denmark takes lead in the drone market.

FreeD project aims to unlock this potential!

### FACTS:

**Project period:** 01.03.2016-29.02.2020

**Budget:** 10 million DKK

Total funding incl.co-finance; 19.4 mio DKK

**Funding:** Innovationsfonden

**Project partners:** University of Southern Denmark, UAS Test Center Denmark, Explicit and Danish Transport and Construction Agency

**Other partners:** : ViaCopter, Terma, Delta GTS, KeyResearch, Naviair and Oxford University

### Contact information:

Head of SDU UAS Center Brad Beach

Phone: +45 6550 9523

E-mail: [brbe@mmdi.sdu.dk](mailto:brbe@mmdi.sdu.dk)

[www.sdu.dk/uas](http://www.sdu.dk/uas)



Innovation Fund Denmark

RESEARCH, TECHNOLOGY & GROWTH