



**European Network on New Sensing Technologies for Air Pollution
Control and Environmental Sustainability - *EuNetAir***

COST Action TD1105

INTERNATIONAL WG1-WG4 MEETING on

New Sensing Technologies and Methods for Air-Pollution Monitoring

European Environment Agency - EEA

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UAV's with airborne sensors

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DAS DANISH AVIATION SYSTEMS

Introduction to UAV's

- The technology behind
- Types of drones
 - Fixed Wing
 - VTOLS
 - Lighter than air vehicles (balloons)

Possibilities

- Economic solution
- Flexible / Easy to use
- Mobile / Easy to deploy
- High data sample interval

Example of applications

- High precise photogrammetry <3cm per pixel
- Particle capturing
- Live analyzing of air content
- Thermal/Multi/hyper spectral optical camera
- Lidar
- ETC.

Example of UAVs



Sensors / Payloads

- Optical payloads (EO/IR/Multispectral/Hyperspectral)
- RF payloads (Radars, Radio spectrometers)
- Passive sensor payloads
- Sample collection payloads (Gas /Air/ Particles)

Legislation

- European rules
- Above $> 150\text{Kg}$
- Below $< 150\text{Kg}$



Thanks for your time

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Any questions?

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