Unifly: The Global Leader in UTM

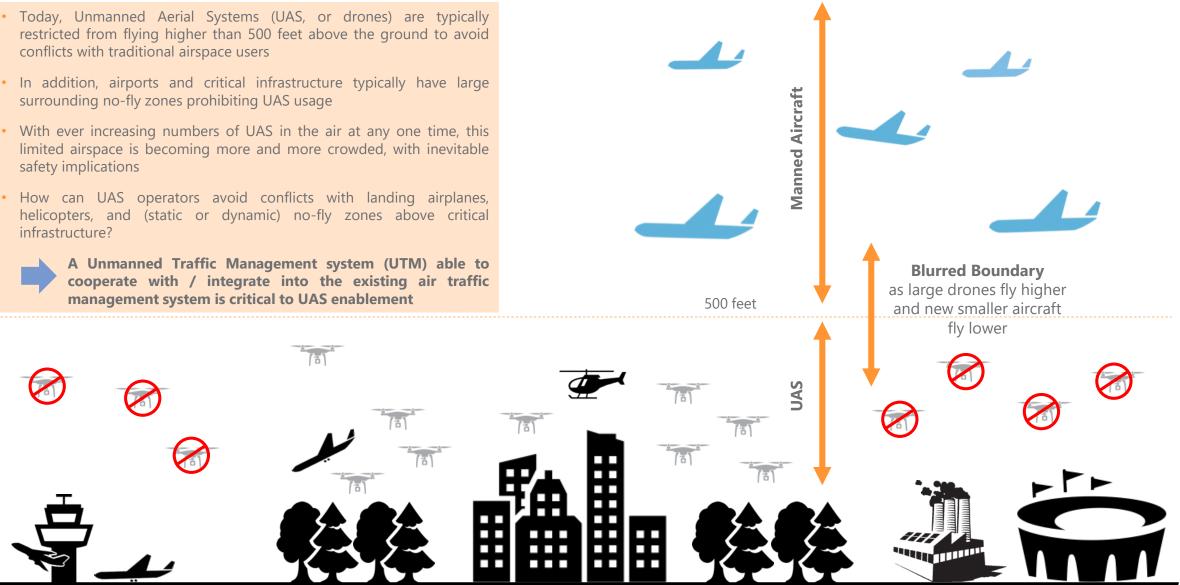




Drones in Today's Air Traffic Management Environment - Challenge

- Today, Unmanned Aerial Systems (UAS, or drones) are typically restricted from flying higher than 500 feet above the ground to avoid conflicts with traditional airspace users
- In addition, airports and critical infrastructure typically have large surrounding no-fly zones prohibiting UAS usage
- safety implications
- helicopters, and (static or dynamic) no-fly zones above critical infrastructure?





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What is an UTM?

The <u>U(nmanned) T(raf</u> contribute to ensure t <u>stakeholders and tech</u> to maintain <u>safe separ</u> and to provide an effic

The <u>UTM System is a contrik</u> running the software, themselves, all contrik or restricted standard

The <u>UTM concept cov</u> categories, ranging fro beyond.

An UTM syste

eral stakeholders

M is defined as <u>a system of</u> ing to certain regulations, <u>TM users</u>, at very low level,

ronment and the drones ct services through public

beyond..), in all mous operations and

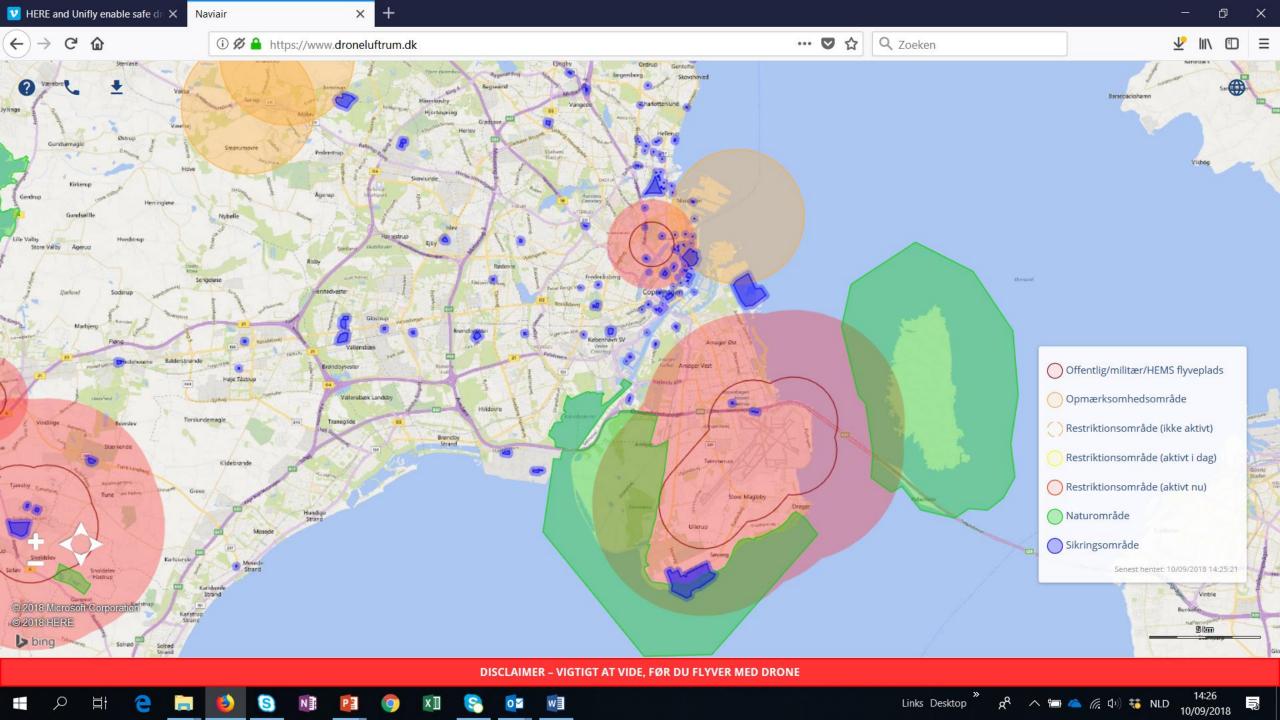
icles, 3 D information, land-use...

These data is a mandatory input for validation against the legislation, navigation and flight planning

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Setting the scene...





Multiple National deployments

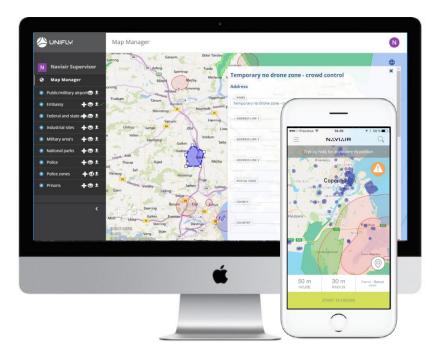
35 000 + registered Users / 200 + flights per day (winter!)





















Copernicus – Drones – UTM



Drone operations could largely contribute to Copernicus objectives and EO in general; though this operations are/will be typical <u>BVLOS operations</u>

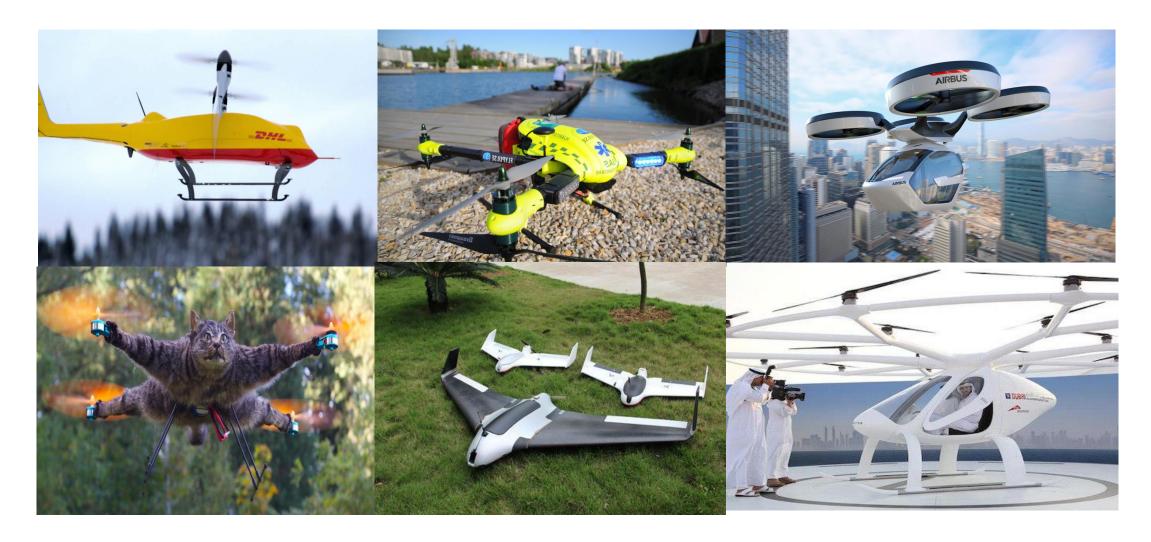
UTM is a key enabler for the drone market and especially BVLOS operations to emerge UTM is mandatory to make these <u>BVLOS operations</u> possible in an <u>operational</u> manner

An <u>UTM needs geo-graphical data (land-use, 3 D information,...)</u> to be able validate drone flights against local legislation and allow safe flight planning. These data to a large extend is provided through the use of remote sensing data (satellite, airborne, drone,..)

With an established UTM, a wider use (BVLOS) drone operations for mapping, inspections, will be possible. Data gathered by drones could feet into the UTM to make to data <u>up to date and more</u> <u>accurate</u>

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The 'future' needs UTM (and DATA), or... the 'future' will not be..









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