Operational aspects of drones and HAPS

COPERNICUS WORKSHOP EUROCONTROL, Brussels

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Commercial Space

<10km

New Entrants: Balloons, Solar Plans, Super Sonic

<FL600

RPAS (non segregated)

<1000FT

RPAS/Drones

STM

Space Traffic Management

HATM or Higher UTM
Higher Airspace Traffic Management

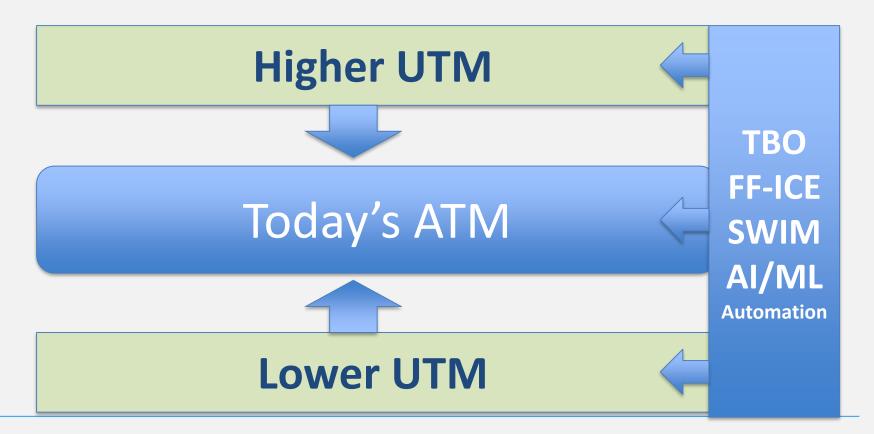
ATM

Air Traffic Management

UTM/U-SPACE/Lower UTM
UAS Traffic Management



Sandwich of Innovation



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What is happening on HAPS?

- Industry led discussions
- Air Navigation Conference/13
 - Need for regulatory framework
 - Recognition of new entrants
- Concept of Operations
 - Needs/requirements/context/interfaces
- Trials
- ICAO Provisions



What is happening on drones?

- Today's ATM
 - IFR integration is a priority at global and regional levels
 - The RPAS Panel is on schedule and delivering Chicago Convention annexes amendments to the ICAO Secretariat as planned; Many ICAO Docs will require amendments as well
 - EUROCONTROL, EASA, SJU are efficiently working together to support the EC
 - VFR is an exciting challenge
- At lower altitude:
 - U-space concept and technical blocks are building up; convergence is a priority and within reach
- Additional challenge of ATM / UTM interface management





Thank you