

# Future of RPAS in Europe for Security and Defense

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# RPAS development for ATM

- Opportunity:
  - Business development with new airspace user
  - Very dynamic and innovative field
- Challenge:
  - Pilot still key in safety loop
  - Very wide variety of RPAS vehicles
  - RPAS operators not always used to Aviation Safety culture
  - Need to build trust with traditional airspace users

# RPAS in Security and Defense

- Increasing use of RPAS for:
  - Military operations
  - Government tasks: border control, special events surveillance, Search and Rescue
- Big, high performance, well equipped RPAS
- Accommodation today: airspace segregation only
- Negative impact on Airspace capacity

**Do not forget big RPAS in priority list !  
Full ATM integration is the objective**

# RPAS ATM integration not achieved

- Technology is available
- Critical issues identified: C2 link, Detect and avoid, Emergency procedures, Cyber Security
- Global safety demonstration missing
- Need to consider global view: RPAS, systems, controllers, pilots, procedures, training, impact on capacity

**Full safety case to be developed and approved  
Real technical and operational challenge**

# How to achieve RPAS Safety Case

- S2020 as a potential programme framework
- Need for a multi-stakeholder integrated team
- Coordination role for EUROCONTROL (operational) and EASA (regulation and certification)
- Wake vortex recategorisation as a role model

**EUROCONTROL / EASA / Industry partnership  
is key to achieve RPAS Safety Case**

# Conclusion

- Do not forget big RPAS as a priority
- RPAS safety case to be developed and approved
- EUROCONTROL / EASA / Industry partnership is key