Satellite Communications for the innovation of the European Air Traffic Management System

A great opportunity for the European Space industry to contribute to the future of aviation safety with EC, SESAR, EASA
The Iris Programme

Air traffic management is under pressure

- Expected increase in the number of flights in European skies over the next 20 years: +50%
- Approximate number of passengers that will pass through Europe’s more than 440 airports in 2035: 1.5B
- Average distance aircraft fly longer than necessary in Europe due to fragmentation of airspace: +42km
Iris programme supporting improved ATM

**How it works . . .**

- Controller-pilot communications will increasingly become digital, improving accuracy
- Delivering unprecedented security, utilising VPN and security gateways
- IP broadband allows more information to be uploaded to the aircraft (e.g. live weather maps)

**Who benefits from Iris?**

- Airlines access data that enable improved operations and fuel savings
- Enabling more environmentally friendly air transport
- Air navigation service providers can rely on a certified, efficient and sustainable datalink to increase ATM efficiency
Iris is our Programme in support to the European Commission’s initiative
Single European Sky (SES)

- The Digitalization of the Sky, the pillar of the future ATM and beyond
- Iris, a cost-efficient component of the European and global systems offering advanced data communication
- Satellite services, can be the answer to the growing need of real-time services based on a more efficient and faster sharing of data
- Not only airplanes: potentially hundreds of thousands of highly connected and automated (air) vehicles (e.g. HAPS, UAV, Drones)
Thank YOU

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