



European Commission

**RSPG07-181**

# Single European Sky and SESAR

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## Situation of air traffic management (ATM) in Europe (I):

- European airspace is fragmented according to national borders rather than traffic flows
- More than 60 Area Control Centers in Europe
- Military areas are located in the core area of Europe
- Different ATM systems in Member States and also different civil/military systems





## Situation of air traffic management (ATM) in Europe (II):

- Air traffic congestion (delays and sub optimal trajectories)
- ATM delays cost 800 millions €per year
- High ATM costs (7 billion €per year)
- Traffic is expected to double by 2020





# Single European Sky (SES)

- Legislative framework for the harmonisation of ATM in Europe, adopted by the Council and the European Parliament in 2004.
- SESAR (SES ATM Research) is a program for the modernisation of ATM in Europe.





# Single European Sky (SES) Legislative framework:

- Airspace integration
- Provision of air traffic services not limited by national borders
- Effective cooperation with military authorities
- Interoperability of ATM systems
- Eurocontrol technical support





# Single European Sky (SES)

## Implementing rules:

- Certification of air navigation service providers by national supervisory authorities (NSA)
- Charging scheme for air navigation services
- Harmonisation of airspace classification
- Flexible (civil/military) use of airspace
- Interoperability of ATM systems





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# Single European Sky (SES)

## Interoperability of ATM systems:

- Coordinated introduction of new technologies
- Ongoing actions improving use of spectrum
- Channel spacing from 25 to 8.33kHz
- Introduction of air-ground data link communications





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# SESAR

## (SES ATM Research)

- Program for the modernisation of ATM in Europe
- Technological component of the SES
- To integrate and coordinate R&D activities
- ATM Master Plan by March 2008





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# SESAR

## Development Phase (2008-2013)

- Managed by the SESAR Joint Undertaking (with the participation of Eurocontrol)
- New equipments, systems or standards
- Fully interoperable ATM system in Europe
- Future spectrum needs will depend on the new technologies chosen





## Single European Sky

[http://ec.europa.eu/transport/air\\_portal/traffic\\_management/index\\_en.htm](http://ec.europa.eu/transport/air_portal/traffic_management/index_en.htm)

## SESAR

[http://ec.europa.eu/transport/air\\_portal/sesame/index\\_en.htm](http://ec.europa.eu/transport/air_portal/sesame/index_en.htm)

