



AVIATION TWIN TRANSITION CLUSTER

A EUROPEAN INITIATIVE FOR A SUSTAINABLE FUTURE

RefMap Clustering Event 2025

Advancing Sustainable Aviation & Urban Air Mobility

REGULATORY CHALLENGES: THE SPECIFIC CASE OF SES

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SINGLE EUROPEAN SKY (SES)

- European Union Initiative
 - With the Scope of Reforming Air Traffic Management (ATM)
 - To improve Cost-Efficiency
 - To Increase Capacity
 - To Enhance Safety
 - To Reduce Environmental impact
 - To Promote Technological Innovation and Digitalization
 - To Strengthen overall Sustainability & Resilience
 - To Accomplish Interoperability



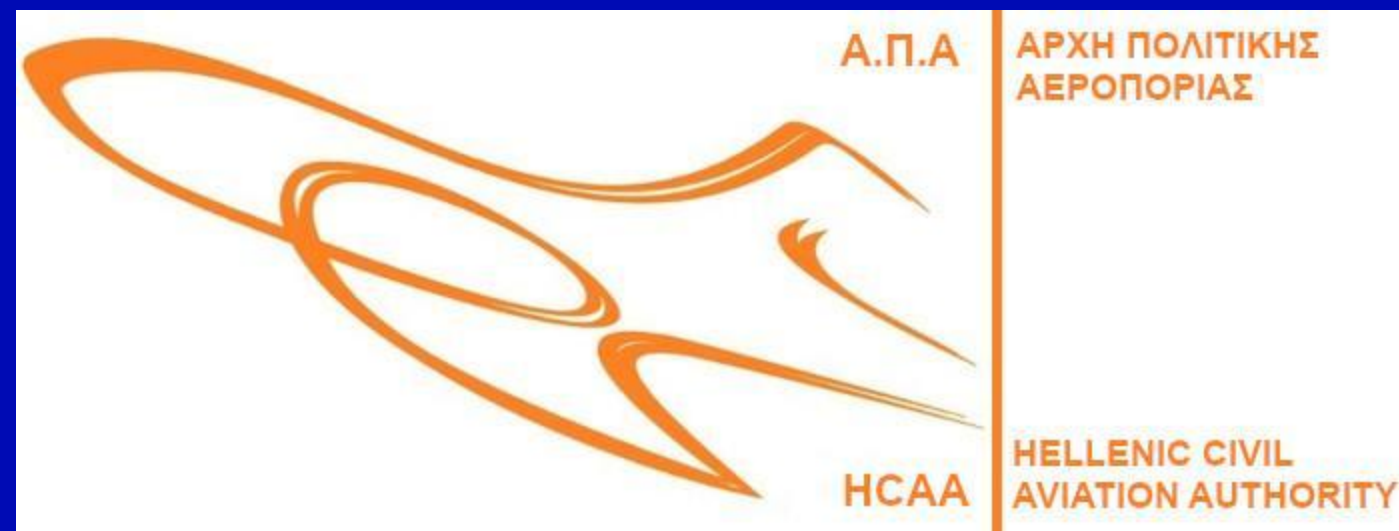
HOW SES AIMS TO ACHIEVE THESE GOALS

- Harmonization of Regulations
 - Restructuring of Airspace
 - Development of New Technologies
 - Improved Coordination and Cooperation
 - » Crisis Management
- Possible Disadvantages
 - National Security & Sovereignty issues





SES REGULATORY FRAMEWORK EVOLUTION



- SES 2+ (2024)
 - SES II (2009)
 - » SES I (2004)

MAJOR CHALLENGES FOR REGULATORY AUTHORITIES

STRENGTHS/OPPORTUNITIES

- Already gained Experience in the field of Regulations
 - Advanced Technical/Project Management Training needed for Authority staff
 - Adoption of Risk-Based Oversight to the greater extent possible
 - Improved collaboration with Service Providers to the greater extent possible
 - » Compliance with NSAs vs NCAs Requirements

WEAKNESSES/THREATS

- Lack of Personnel Competence & Capability
 - More Complex Interactions between Stakeholders
 - Continuous heavy Regulatory activities to be followed
 - VUCA Environment (Volatility-Uncertainty-Complexity-Ambiguity)-Performance-based Environment
 - » Availability of Resources, Organisational Restructuring, Investment in Technology/AI/Big Data, Crisis Management, Adoption of Lessons Learned/Change Management, Complex Decision Making

HCAA ACTIONS



Compliance Monitoring

- Scheduled & Unscheduled Inspections
 - Desktop Audits
 - Off – site Findings
 - Corrective Action Plan MANAGEMENT
 - » Potential Enforcement Measures

Close Collaboration with Stakeholders

- Frequent Meetings with affected Service Providers
 - Communication on equivocal matters with EASA
 - Communication with Eurocontrol
 - Communication with SDM & PRB
 - » Communication with MIL Stakeholders

Participation in Relevant Groups

- Single Sky Committee
 - EASA MAB/Technical Boards
 - Eurocontrol CNS Programme Manager
 - LSSIP Implementation

Participation in Regular Regulatory Process

- NPAs Consultation

**thank you
for your attention!**

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**Q&A /
Closing**





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