



Green is not just a promise

ESSENTIAL
FACTS
ON MODERNISING
EU SKIES





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Discover how SESAR deployment is modernising air traffic, aligning with EU climate goals and policies to reduce greenhouse gas emissions. By optimizing flight routes and embracing ATM modernization, SESAR supports a greener future. Dive into the details of how SESAR contributes to the European Green Deal.



**EVERY 1 EURO
INVESTED
IN ATM
MODERNISATION
SAVES
4.3KG CO₂**

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SESAR deployment plays an important role in promoting environmental sustainability, aligning with EU climate goals and policies.

Reduction in Greenhouse Gas Emissions

By optimizing flight routes and reducing congestion, SESAR significantly decreases greenhouse gas emissions from air travel. This leads to improved fuel efficiency and a lower carbon footprint, contributing to a more sustainable aviation industry.

Alignment with EU Climate Goals

SESAR's efforts align closely with the EU's ambitious climate goals and policies, demonstrating a commitment to reducing carbon emissions, thus trying to mitigate climate change. By embracing ATM modernization, Europe takes a significant step towards building a greener and more sustainable future.

The EU Sustainable and Smart Mobility Strategy has highlighted the importance of more efficient ATM operations, which would unleash the “great potential [...] for sustainability, helping to cut excess fuel burn and CO2 emissions”. Current SESAR deployment activities, are amongst the most urgent steps to be undertaken to increase the efficiency in day-to-day operations and reduce unnecessary greenhouse gas emissions, by virtue of a more efficient ATM system.

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CP1 IS EXPECTED
TO ENABLE OVER
12.600.000 TONS
OF CO2 SAVINGS
WHICH IS MORE
THAN THE **YEARLY**
CO2 EMISSIONS OF
1.5M EU CITIZENS

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Health and Environmental benefits

With reduced aviation emissions, SESAR helps improve air quality, leading to healthier environments and better quality of life for EU citizens. Cleaner skies mean fewer pollutants in the air, benefiting both human health and the environment.

Contributor to the European Green Deal

The European Green Deal is an ambitious plan that aims to make the European Union the world's first climate-neutral continent by 2050. To achieve this goal, it is essential to address various sectors, including aviation, which contributes to greenhouse gas emissions.

CP1 covers 13% of the CO₂ reductions of all Air Traffic Management related measures currently taken by the Aviation industry to contribute to the 2030 decarbonisation objectives of the European Green Deal.

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BY
ENHANCING EFFICIENCY,
REDUCING EMISSIONS,
&
SUPPORTING THE
TRANSITION TO A MORE
SUSTAINABLE AVIATION,

SESAR PLAYS A PIVOTAL
ROLE IN MAKING THE
EUROPEAN AVIATION
SECTOR MORE
ENVIRONMENTALLY
FRIENDLY

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Air Traffic Management (ATM) modernization, especially through the deployment of SESAR, plays an important role in advancing the following objectives of the European Green Deal:

Enhanced Efficiency and Reduced Emissions

Modernizing ATM systems leads to improved efficiency in air traffic operations. SESAR focuses on optimizing routes, reducing flight delays, and enhancing airspace utilization. These measures translate into shorter flight paths and less time spent in holding patterns, which, in turn, reduce fuel consumption and emissions. According to estimates, SESAR deployment can result in one third of ATM inefficiencies avoided and as such support the overall aim of a 6-10% reduction in CO2 emissions per flight contributing significantly to the EU's climate goals.

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7.2M

Tons of CO2 saved
by modernising ATM
in Europe





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Improved Collaborative Decision-Making

SESAR promotes collaborative decision-making processes among all stakeholders in the aviation industry, including airlines, airports, and air navigation service providers. By sharing data and coordinating activities, air traffic can be organized more effectively and bottlenecks can be avoided. This results in reduced fuel burn, lower emissions, and minimized environmental impacts.

Noise Reduction Measures

ATM modernization is not limited to emissions reduction; it also focuses on mitigating noise pollution. SESAR deployment includes the development of quieter approaches and departures, reducing the noise footprint of airports. This aligns with the European Green Deal's objectives to create a healthier and more sustainable environment for communities living near airports.

ATM modernization, particularly through SESAR deployment, is an important element in achieving the goals of the European Green Deal. By enhancing efficiency, reducing emissions, and supporting the transition to a more sustainable aviation, SESAR plays a pivotal role in making the European aviation sector more environmentally friendly. As the EU continues to invest in research, innovation and deployment of modernization projects within the aviation industry, it is well on its way to becoming a leader in green aviation, contributing to a more sustainable and climate-neutral future.

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MODERNISING AIR TRAFFIC MANAGEMENT #AsOne

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