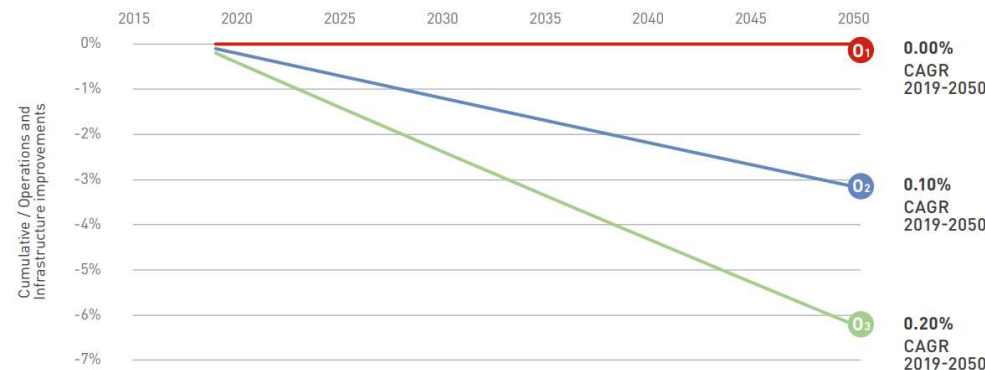


Can ATM deliver significant environmental improvements?

- **1999:** ATM inefficiencies contribute 6-12% of CO2 emissions (IPCC)
- **2012:** 6-8% ATM inefficiencies remain - half of them could be eliminated by 2050 (CANSO)
- **2021:** 6% of ATM inefficiencies should be eliminated by 2050 (ATAG)
- If the full 6% of ATM inefficiencies had been eliminated from 1991 onwards, emissions from aviation in 2019 in the EU would still have been 20% higher than in 1990
- The EU Green Deal aims to reduce CO2 emissions to 55% of 1990 levels by 2030



Efficiency scenarios for operational and infrastructure improvements (per year)

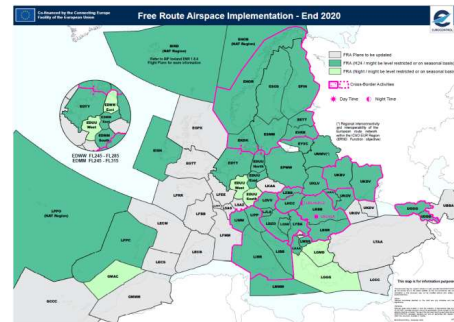
Source: Waypoint 2050 p. 60 - published by ATAG, September 2021

ATM can contribute to delivering environmental improvements – with limited effect

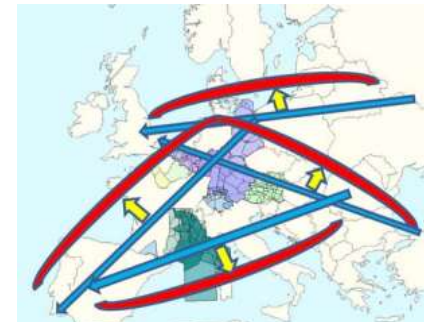
How the ATM system will effectively contribute to the EU Green Deal's ambitious targets

Short term

- Improve/expand free route airspace
- Operate an efficient network



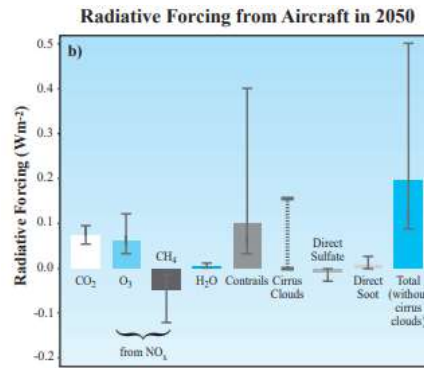
[Eurocontrol Network Operations Report](#)



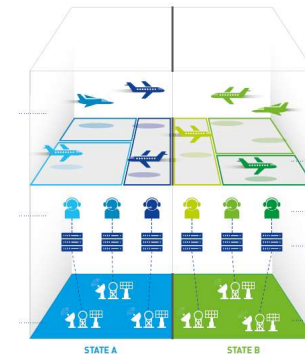
[Eurocontrol Think Paper #10](#)

Long term

- Focus on the right issues
- Improve infrastructure



[IPCC Special Report – Aviation and the Global Atmosphere](#)



[Airspace Architecture Study](#)