CREATE project places together organizations and experienced institutions in the field of research and Air Traffic Management



















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A European research project aiming at achieving innovative procedures in ATM to reduce climate and environmental impac while becoming more resilient to weather phenomena.



Climate and weatheR modEls to improve ATM resiliencE and reduce its impacts

air traffic flow safe, are increasing and phenomena, available ongoing, with larger As climate changes are affected by local weather departure routes are all continuous and efficient precipitation) to make the information. improved to use this technology is being on short and longer notice information on the weather variability in local Runway choice, arrival and information (visibility, wind Air operations use weather

CREATE studies and implements innovative procedures of ATM to reduce climate and environmental impact and to become more resilient to weather phenomena.

CREATE OUTPUTS

- Multi-scale multipollutant air quality system software
- Multi-aircraft
 environmentally-scored
 weather-resilient
 optimized 4D trajectories in the flight
 execution phase
- CO2 and non-CO2

 balanced Environmenta

 Scores Module

CREATE BENEFITS

environmental impacts of ATM operations can be reduced during different flights phases, in particular in TMA & en-route operations. Its results contribute to define recommendations and new climate/environmental assessment methodology to be considered in the future ATM

CREATE OBJECTIVES

- Study ATM vulnerability with respect to weather phenomena to improve ATM procedures and reducing vulnerability
 Study the impact of
- Study the impact of aviation on the environment both on short and long term (climate)
- Propose ATM
 operational changes
 reducing such impact
- Study new meteo tools and methodologies, integrating their use in ATM
- Validate proposed ATM operational changes to reduce ATM environmental impact and improve ATM resilience with respect to weather