



→ SPACE AND AVIATION

Space-enabled air connectivity for
significant CO₂ reduction



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

ESA UNCLASSIFIED



European Space Agency



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Air communication limitations



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Satellite-based Air Traffic Management



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Optimised flight planning and other
efficiencies can yield
2%-3%
fuels savings per flight*

Reduction of CO2 thanks to satellite-based ATM

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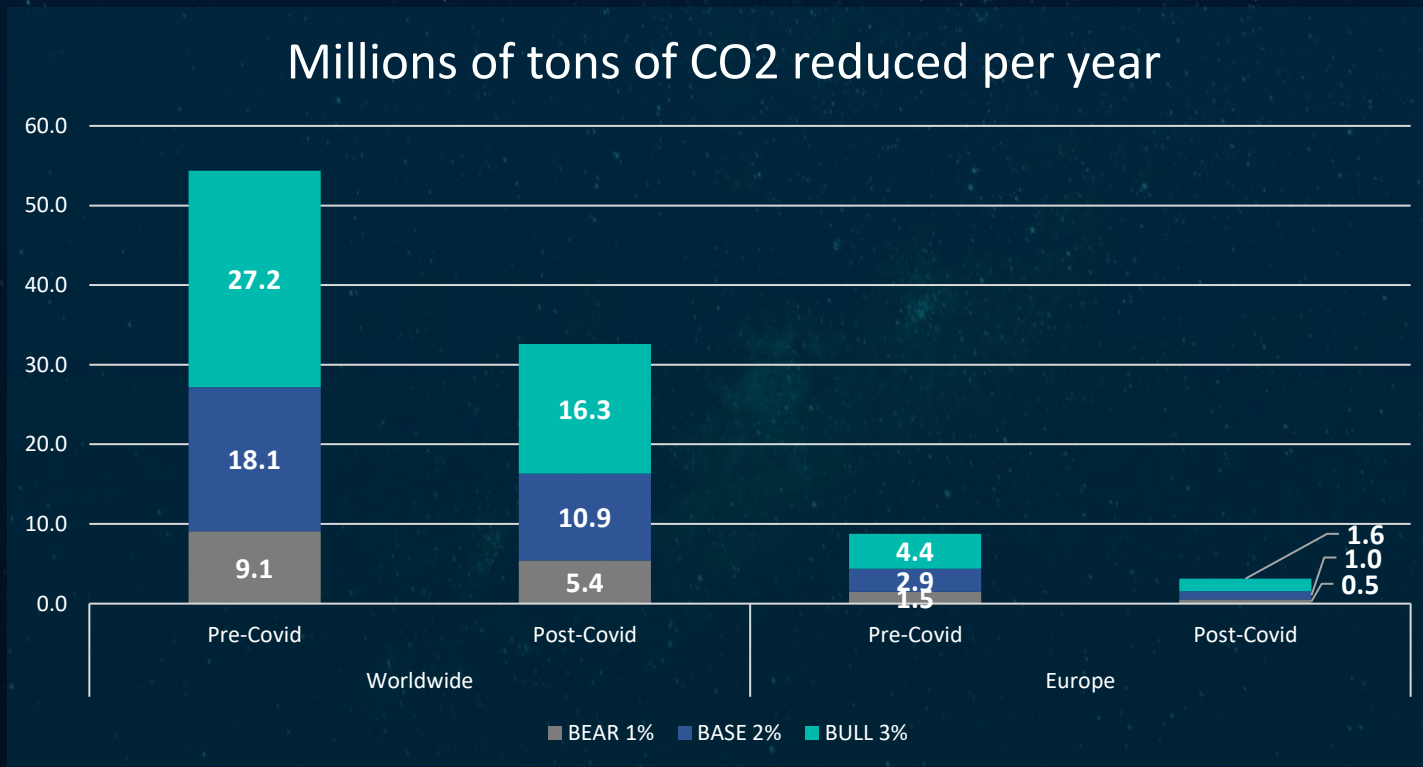


Recalculation to tons of CO2
reduction per year

Calculations for different scenerios based on three parameters:

- Geographical areas - the World and Europe
- Confidence interval of fuel reduction – bear (1%), base (2%), bull (3%)
 - Pre- and post-covid

Satellite-based ATM like IRIS can reduce up to 27M tons of CO2 globally



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