



SUSTAINABILITY IN FLIGHT OPERATIONS

Many measures – one goal: reducing CO₂ emissions



OPS SUSTAINABILITY PROGRAM

The Group-wide **fuel efficiency program** is making the operational processes of all our airlines **more sustainable**

More than
90 projects
since 2022

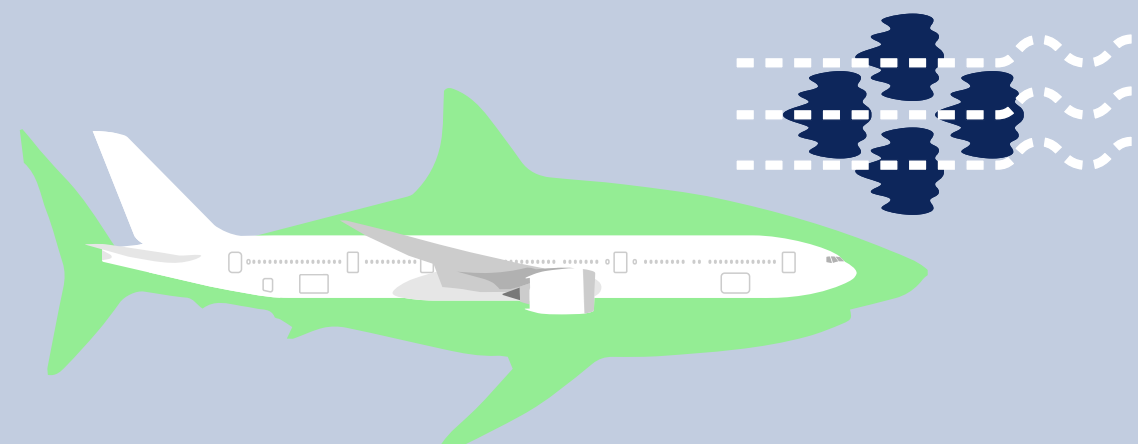


Already around **54,000 metric tonnes of kerosene** saved and around **170,000 tonnes of CO₂** permanently avoided

Savings correspond to the fuel consumption and CO₂ emissions of 640 round-trip flights with an Airbus A350-900 on the MUC-NYC route



Over 20 “sharks” in the air



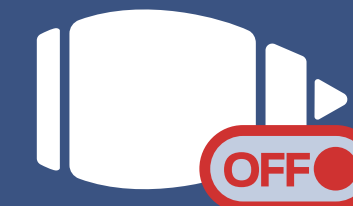
More than 20 aircraft in the Lufthansa Group are already flying with “AeroSHARK”

The innovative film reduces fuel and CO₂ emissions by around 1 percent on every flight

Optimized fresh water refueling
reduces aircraft weight and
saves resources



SINGLE-ENGINE TAXIING



Shutting down one engine during taxiing on the apron saves kerosene and reduces emissions



DIGITAL TOOLS

New digital tools and data-driven decision-making models are designed to help make flying even more efficient

Flight route optimization in close coordination with air traffic control

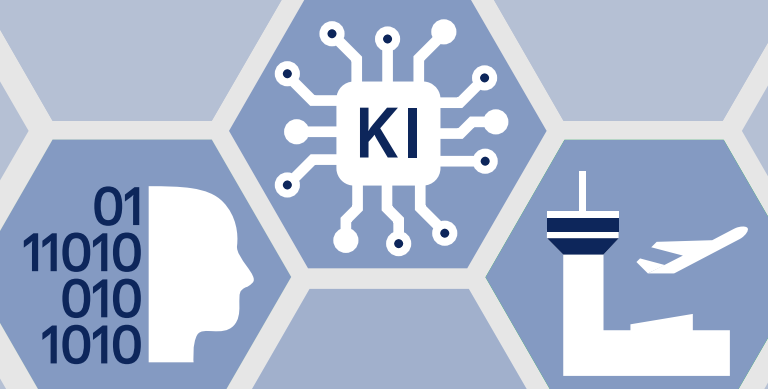
5

times around the globe

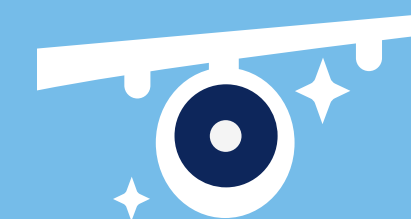
More than 202,000 km of fully electric aircraft towing since 2022 – equivalent to 5 times around the globe



Using **AI**, in-flight catering is **optimized according to demand** and aircraft deployment is **intelligently managed**



Efficient engine wash



Clean engines consume less fuel, require less maintenance and operate more efficiently

Every metric tonne of kerosene saved reduces the environmental impact by **3.16 tonnes of CO₂**

