

WHO WE ARE

Four experienced European partners join forces in AUDIO:



AUDIO is coordinated by DLR Germany, which provides ground information, flight plan and route information collected by the Airport Research and Innovation Facility (ARIF) in Hamburg.



Lufthansa

Deutsche Lufthansa adapts the existing EFB solutions to the new functionalities, oversees the demonstration at Hamburg Airport and evaluates the functionalities under real-life conditions.



Norway-based SINTEF AS provides its optimisation library, validated in SESAR, to generate the optimised surface routings to be used for the demonstration.



European management consultancy ARTTIC leads the dissemination activities, including production of communication materials and workshop organisation, to maximise impact of project results.

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AUDIO

AIRSPACE USER SUPPORTING
DEMONSTRATIONS OF INTEGRATED
AIRPORT OPERATIONS



This project has received funding from the SESAR Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No 783161.



WHY AUDIO?

AUDIO aims to improve the safety and efficiency of flights by increasing the flight crew's situational awareness while the aircraft is taxiing.

Innovative solutions developed in the SESAR Joint Undertaking are being readied for deployment at European airports. AUDIO proposes to go beyond already trialled, ground-based solutions and involve airlines as the central partner for an integrated approach to modernizing airport traffic management.

AUDIO AT A GLANCE

- ▶ **START: MAY 2019**
- ▶ **DURATION: 2 YEARS**
- ▶ **BUDGET: 1.06 MILLION €**
- ▶ **EU CONTRIBUTION: 818.050 €**
- ▶ **FUNDING: SESAR JOINT UNDERTAKING**



THE AUDIO APPROACH

The aim is simple: to provide on-board crews with additional routing information and visualisation of surrounding traffic currently available to controllers only.

HOW IT WORKS

Lufthansa aircraft are already equipped with an Electronic Flight Bag (EFB) moving map application for day-to-day operations. An advanced version of this application will be integrated into aircraft of the Lufthansa fleet.

Planned taxi route and time are calculated by the Advanced-Surface Movement Guidance and Control Systems (A-SMGCS) routing function and the surrounding traffic is detected by airport surveillance infrastructure (radar or ADS-B sensors). AUDIO will demonstrate the added value of providing the data to flight crews and assess the main technical and operational factors to prepare deployment.



BENEFITS

- ▶ Increased human performance and situational awareness of flight crews
- ▶ Improved taxi guidance by Digital Route visualization
- ▶ Lower fuel consumption and fewer emissions per movement thanks to more efficient taxiing

THE AUDIO DEMO

AUDIO will demonstrate the viability of the innovative advanced moving map application in a real-life demonstration at Hamburg Airport.

