

PROJECT

## DIGITS-AU

### Demonstration of ATM Improvements Generated by Initial Trajectory Sharing- Airspace User Part

**Funding:** European (Horizon 2020)

**Duration:** Jan 2018 - Dec 2020

**Status:** Complete

**Total project cost:** €6,150,955

**EU contribution:** €4,305,668



**Call for proposal:** H2020-SESAR-2016-2

[CORDIS RCN : 214084](#)

#### Objectives:

DIGITS-AU is the essential Airspace User complement to the DIGITS project (Demonstration of ATM Improvements Generated by Initial Trajectory Sharing). DIGITS was granted under H2020-SESAR-2015-2, SESAR.ID-VLD.Wave1-27-2015, and its continuation is dependent on the participation of Airspace Users (AU).

As required, DIGITS-AU brings together Airspace Users:

- who operate (even partially) in the airspace of ANSPs participating to DIGITS, namely DFS, ENAV, MUAC and NATS and
- who will receive through this Call new onboard avionics capability which allows to downlink trajectory predictions, the so-called Extended Projected Profile (EPP), for sharing with Air Traffic Control.

This proposal addresses also the interface with other SESAR 2020 projects, by nature with PJ31 DIGITS, but also with PJs 01, 09, 10 and 18 in order to contribute to the identification of benefit potentials facilitated by this new airborne technology. The capture of real fuel burn reduction for DIGITS-AU flights is not possible due to the fact that ground ATC systems are used in a pre-operational or shadow mode, based on which, air traffic controllers may not alter their instructions. Nevertheless "what-if" cases shall be identified as far as observations possibly allow and the theoretical fuel burn gain calculated."

#### Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

**Other programmes:** SESAR-VLD1-04-2016 Initial Trajectory Information sharing

#### Lead Organisation:

**Airbus Operations Sas**

**Address:**

ROUTE DE BAYONNE 316  
31060 TOULOUSE  
France

**Organisation Website:**

<http://www.airbus.com>

**EU Contribution:** €1,474,586

## Partner Organisations:

### Airbus

**Address:**

2 ROND POINT EMILE DEWOITINE  
31700 BLAGNAC  
France

**Organisation Website:**

<http://www.airbus.com>

**EU Contribution:** €303,728

### Thomas Cook Airlines Limited

**Address:**

WESTPOINT PETERBOROUGH BUSINESS PARK LYNCH WOOD  
PETERBOROUGH  
PE2 6FZ  
United Kingdom

**EU Contribution:** €242,297

### Deutsche Lufthansa Ag

**Address:**

Von Gablenz Str. 2-6  
50679 KOELN  
Germany

**Organisation Website:**

<http://www.lufthansa.de>

**EU Contribution:** €217,000

### Iberia Lineas Aereas De Espana Sa Operadora

**Address:**

Calle Velazquez 130  
28006 Madrid  
Spain

**Organisation Website:**

<http://www.iberia.es>

**EU Contribution:** €52,448

### Honeywell Aerospace

**Address:**

4 AVENUE SAINT GRANIER  
31300 TOULOUSE  
France

**EU Contribution:** €113,078

### Easyjet Airline Company Limited

**Address:**

HANGAR 89 LONDON LUTON AIRPORT  
LUTON BEDFORDSHIRE  
LU2 9PF

United Kingdom

**EU Contribution:** €186,532

**British Airways Plc**

**Address:**

WATERSIDE  
HARMONDSWORTH  
UB7 0GB  
United Kingdom

**Organisation Website:**

<http://www.ba.com>

**EU Contribution:** €304,483

**Nova Airlines Ab**

**Address:**

PO BOX 45439  
104 31 STOCKHOLM  
Sweden

**EU Contribution:** €178,282

**Air France SA**

**Address:**

RUE DE PARIS 45  
95747 ROISSY CDG CEDEX  
France

**EU Contribution:** €1,454,714

**Technologies:**

Unclassified  
Non-technology

**Development phase:** Research/Invention

**STRIA Roadmaps:** Network and traffic management systems

**Transport mode:** Air transport

**Transport sectors:** Passenger transport, Freight transport

**Transport policies:** Other specified

**Geo-spatial type:** Other