

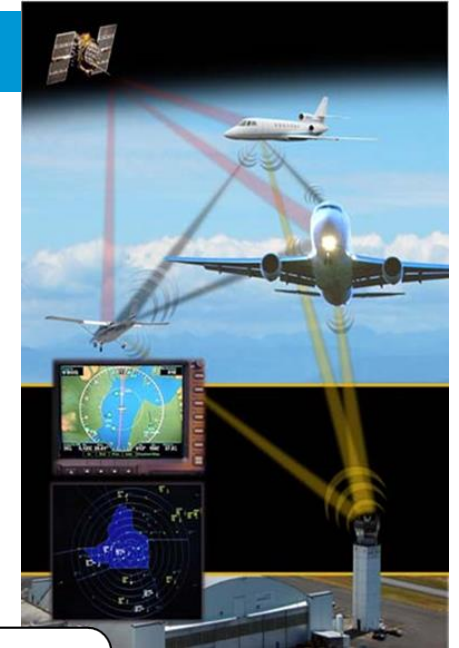
## → BUSINESS APPLICATIONS FOR ADS-B BASED SERVICES

Studies and trials have confirmed the possibility to detect ADS-B signals from space

WRC-15 decision has allocated the frequency band 1087.7-1092.3 MHz for ADS-B transmission from AC to satellites. In 2020, FAA and EASA will mandate that all Aircrafts flying need to be equipped with an upgraded version of ADS-B out (DO-260B).

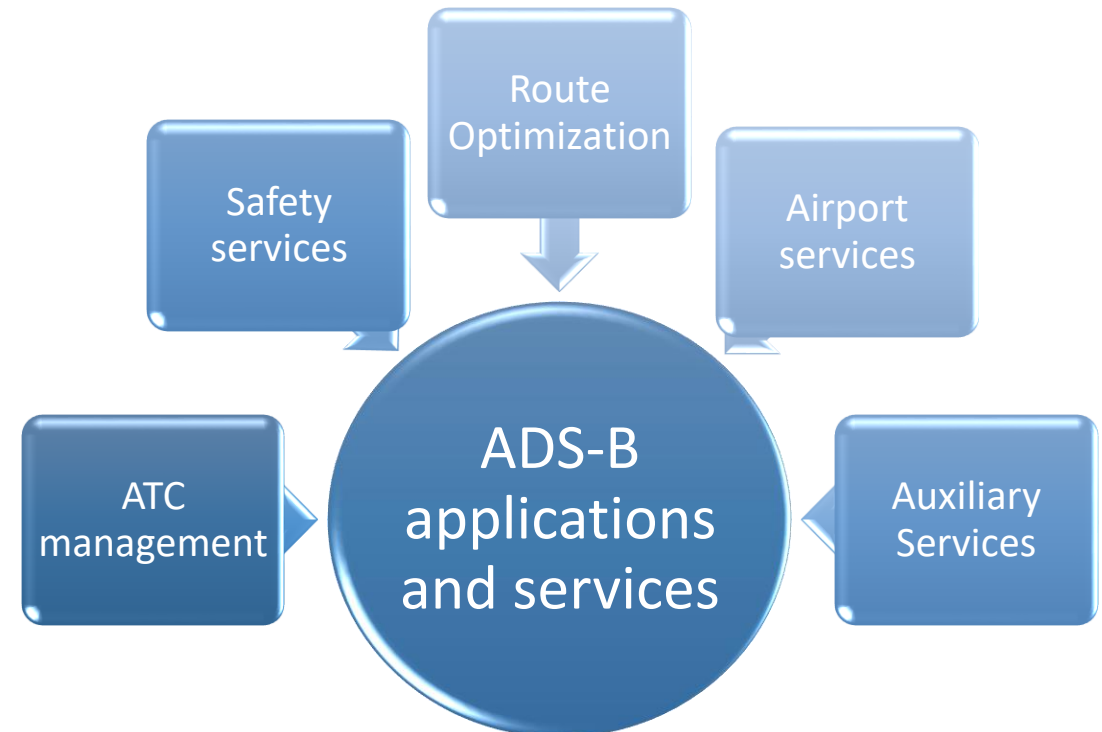
An array of opportunities for integrated applications and services is expected to be opened up

On the 27<sup>th</sup> September 2016 the ESA ARTES IAP Tender on ADS-B based services has been issued. Six parallel contracts have been awarded



## → EXPLORING THE VIABILITY OF INTEGRATED APPLICATIONS INCLUDING IN PARTICULAR THE AUTOMATIC DEPENDENT SURVEILLANCE-BROADCAST (ADS-B)

**Feasibility Study Objectives:** to identify and characterize ADS-B based services addressing potentially interesting application domains, carry out the analysis of their technical feasibility and commercial viability, select the most promising ones for further development and exploitation, and propose a roadmap for the implementation and demonstration of the proposed services.



## → INITIATED ACTIVITIES

**Isaware Oy (P) (FI);**

Finnish Meteorological Institute (FMI) (S)(FI);

Finavia Oyj (S)(FI);

Vaisala Oyj (S)(FI);

Reaktor Innovations (Oy) (S)(FI).

**Alba Orbital Limited (P)(UK).**

**Thales Alenia Space Deutschland GmbH (P)(DE)**

Atmosphere Systemes et Services SARL (S)

Atmosphere GmbH (S)(FR);

Deutsches Zentrum für Luft- und Raumfahrt e.V.  
(S)(DE);

Egis Avia SAS (S)(FR);

Helios Technology Limited (S)(UK);

SAP Deutschland SE & Co. KG (S)(DE).

**Airbus Defence & Space Ltd., Limited Co.(P)(UK);**

NATS UK, Limited CO.(S)(UK);

Airbus DS SAS, Limited CO.(S)(FR);

European Satellite Services Provider SAS, Société  
Anonyme (S)(FR);

FlightRadar24 AB (S)(SE);

Gomspace, LLC (S)(DK);

**Luxspace Sàrl (P)(LU);**

Deutsches Zentrum für Luft- und Raumfahrt e.V.  
(S)(DE);

Air Navigation Administration-Ministère du  
développement durable et des infrastructures  
(S)(FR);

Tekever Ltd. (S)(UK).

**Pricewaterhouse Coopers Advisory, N.V. (P)(NL);**  
ENAV S.p.A. (S)(IT) ;Nextant Applications and  
Innovative Solutions srl (S) ;IDS Ingegneria Dei  
Sistemi S.p.A. (S)(IT); Science and Technology B.V.  
(S)(NL).