



iCNS – CNS Services Plenary

9 April, 2025

Brussels

ESSP - Who We Are

Revenues

≈70 MEur in 2023
Class C3+

We are experts in operation and service provision of Communication, Navigation and Surveillance (CNS) space-based systems

ESSP, is the sole private pan-European company certified by EASA in Navigation (2011) and Communication satellite-based (2023) service provision



3 Services in Operation



ESSP is the **EGNOS Service Provider** for the European Commission under EUSPA since 2009



Since July 2023 ESSP has been certified by EASA as the **Iris Service Provider** (safety datalink satellite-based communication for Air Traffic Management)



Space Weather Service, solar event forecasts to inform aviation users



Take benefit of the space-based technologies in critical operations, offering **secure** services for **safe and greener** flights

Communication - SatCom Datalink Iris Service



Need

To unleash datalink performance, to face the coming **safety data congestion challenge** in aviation and to get ready for the **new usages of safety data** to enable **ATC greener operations**

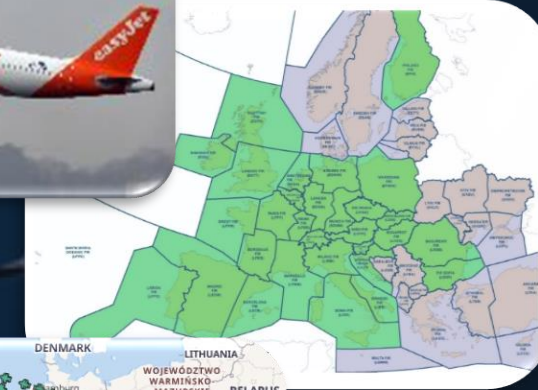
Status

ESSP is involved in the ESA Iris Programme in 2018 at the start of the development of the solution with an important step with the **first Pan-European communication certification in Aviation in 2023**

Service in operation in Europe since January 2024

Free of Charge period up to December 2025 with the federation of **19 ANSPs as early users**

To date, more than **5000 flights** performed to date with good performance



Challenges / Opportunities

Adoption of the service by users with collective benefits (chicken and egg) supporting strong user expectations

Mature technology and in operation to support communication challenges at a global scale

Navigation – SBAS EGNOS Service



Need

EGNOS, is Europe's regional Satellite-based Augmentation System (SBAS).

SBASs are used to augment the signals of Global Navigation Satellite Systems (GNSS) so that they can be used for **Safety-of-Life** applications such as Precision Approaches in Aviation.



Status

ESSP is delivering services in Europe for more than 75% of the IFR runways ends which already offer SBAS landings.
EGNOS kept on growing with more than 1000 procedures published at 500 airports

Challenges / Opportunities

Important adoption by users and development of new services (e.g. new maritime service since March 2024) meeting the best performance

Keeping high-end service with environment evolution and new requirements (cyber-security)



Surveillance - EURIALO Programme

Need

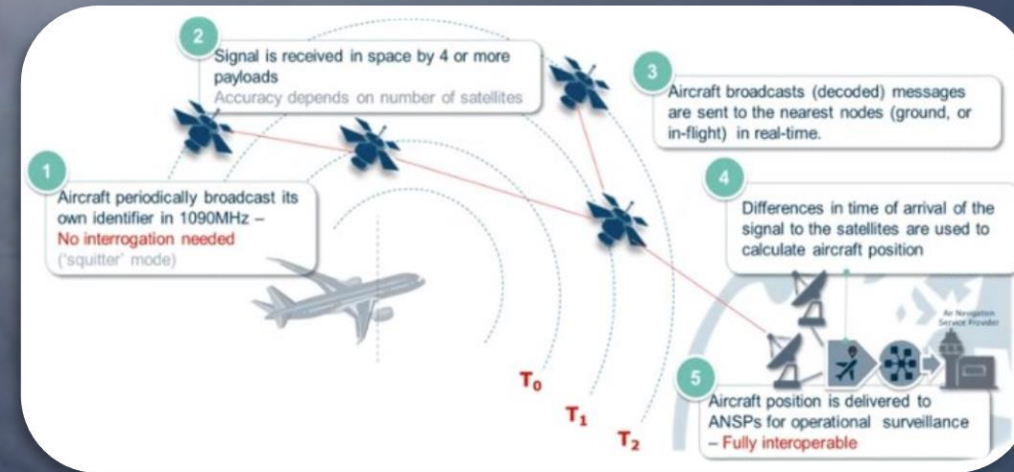
To allow necessary service levels (performance) to enable **independent space-based surveillance** on continental/dense areas as well as oceanic areas and allowing EU surveillance rationalisation

Status

Phase 1 achieved in Q2 2024 with the **development of the concept and initial design**

Phase 2 started in Q3 2024 for an **in-orbit demonstration for performance and concept validation**

Start of validation operation in 2026



Challenges / Opportunities

New service level for users thanks to innovative technologies & concepts

From the concept to a possible operational service

ESSP



Pierre Lahourcade

Chief Strategy & Development Officer

pierre.lahourcade@essp-sas.eu

THANKS



www.essp-sas.eu



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