



Socio-economic impact assessment of the ARTES 4.0 programme

Case study portfolio

European Space Agency

13th December 2024

Eurialo ARTES Space Systems for Safety & Security (4S)

A collaboration bringing unparalleled reliability to aviation surveillance

- Overcoming limitations of traditional radar systems, Eurialo provides real-time and global aircraft tracking via satellites



LEVERAGING ESA'S SUPPORT

- €10.6 million of funding shared across the consortium
- Fast-moving, highly collaborative, flexible, and results-driven approach
- ESA provided support from experts with hands-on experience on the problem
- Validation of assumptions and models, and iteration of ideas through teamwork with ESA



"Space-based aircraft tracking and geolocation is the future of air traffic management to ensure safe, secure and sustainable air travel at a global scale."

BUSINESS SUCCESS & GROWTH



Expansion of company with new office in Munich



Expected to reach ~180 customers

Technological roadmap to scale-up constellation



In-orbit demonstration in 2026

EXPANDING EUROPEAN & GLOBAL CAPABILITIES

- Brings together the German, French, and Italian space agencies in a European collaboration of several stakeholders
- Aligns with the European ATM Master Plan in creating resilient space-based infrastructure for safe and sustainable air travel
- The system will support the decommissioning of terrestrial stations, contributing to **expected savings of €525 million by 2040**
- Presents a **cost-savings factor for developing countries**, and provides resilience for navigation providers



TECHNOLOGY

APPLICATION

END-TO-END SYSTEM



→ THE EUROPEAN SPACE AGENCY

