



Kairos Aeroespacial – AI-Driven Onboard Medical Triage System

"When health meets intelligence, aviation enters a new era"

www.kairosaero.eu

Revolutionising In-Flight Healthcare

While aviation has achieved unprecedented levels of safety, **in-flight medical emergencies** remain an unsolved challenge. Airlines still depend on the chance presence of a doctor onboard or make costly, disruptive diversions with limited information.

Kairos Aeroespacial, in collaboration with the **University of Alcalá's Health Computing and Intelligent Systems Group**, is pioneering the **first AI-powered medical triage system** designed for commercial aviation.



The Concept

Our system brings the **rigour of hospital triage protocols** into the aircraft cabin. Through AI-driven assessment and secure interfaces, crew members can rapidly classify the severity of a passenger's condition, receive clear guidance, and support the captain in making informed, timely decisions.



From Uncertainty

Crew members facing medical emergencies with limited guidance



To Structured Intelligence

AI-powered assessment providing clear, actionable guidance

This transforms the process from **uncertainty to structured intelligence**, ensuring safer, faster, and more sustainable operations.

Imagine a passenger's life being saved not by chance, but by structured intelligence at 35,000 feet.

Market Potential

1/600

Flight Emergency Rate

Medical events occur in approximately 1 out of every
600 flights

100K+

Daily Global Flights

Tens of thousands of flights operating worldwide each
day

Medical events are not rare: research indicates that an in-flight medical emergency occurs in approximately **1 out of every 600 flights**, with a significant proportion requiring immediate assessment. With tens of thousands of flights operating globally each day, the opportunity to standardise intelligent medical support onboard is both urgent and scalable.

Social and ESG Impact

Enhanced Passenger Experience

Strengthening the **passenger experience**, reassuring travellers that their well-being is prioritised even in unexpected circumstances.

Industry Leadership

For airlines, this positions them as **leaders in passenger care**, fully aligned with ESG principles (Environmental, Social and Governance).

Environmental Benefits

Combining **social responsibility** with **environmental benefits** from avoided diversions.

Risks and Mitigation

We recognise the challenges ahead:

Certification (medical + aviation)

Addressed through early alignment with **EASA and FAA medical certification experts**.

Integration with aircraft systems

Planned via modular, non-invasive architecture compatible with existing communication standards.

Medical validation

Backed by a leading research group in AI and health computing, ensuring clinical rigour and acceptance.

By identifying risks upfront and building robust mitigation strategies, Kairós demonstrates the discipline expected by institutional investors.

Strategic Invitation

We are seeking **strategic partners and visionary investors** who share our vision to redefine in-flight healthcare and help us establish this technology as an **industry standard**.

By partnering with Kairos, investors join a mission that unites **safety, technology, social impact, and sustainability** in one groundbreaking solution—set to transform commercial aviation worldwide.

