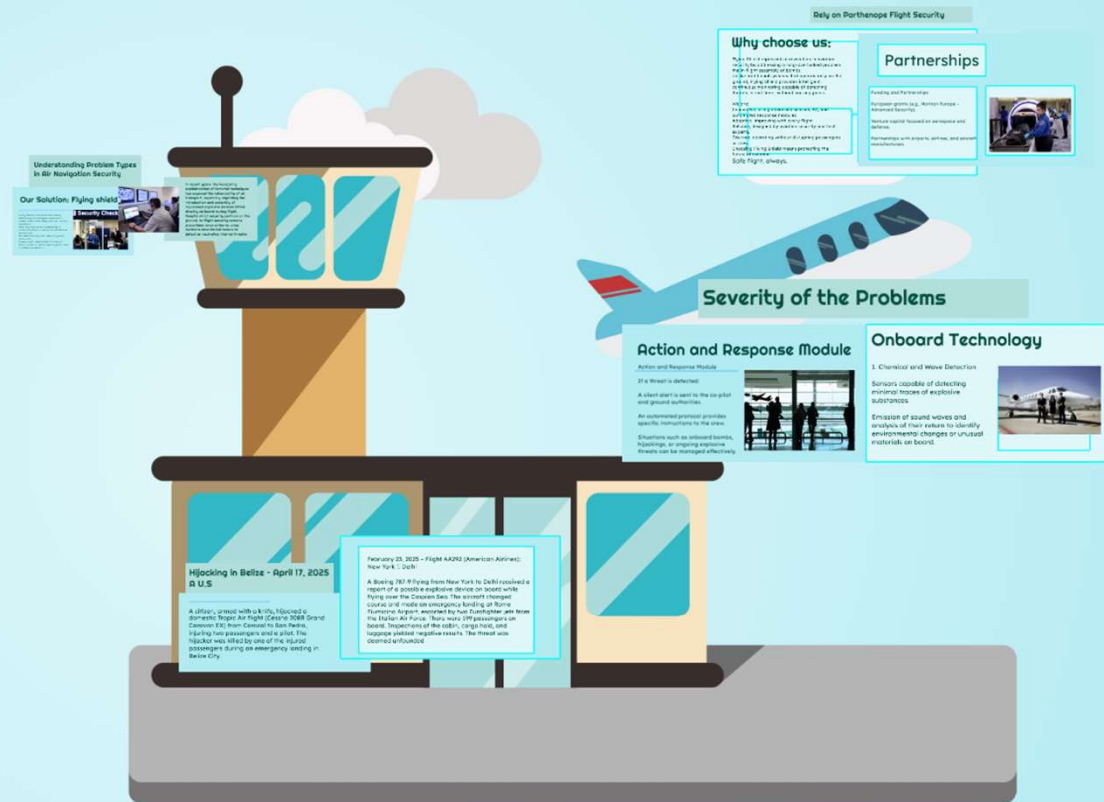


## Parthenope Flight Security

Ensuring Safety in Air Navigation

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## Understanding Problem Types in Air Navigation Security

### Our Solution: Flying shield

Flying Shield is an innovative startup developing an intelligent, autonomous system that can be integrated into aircraft, capable of:

- Detecting the presence, assembly, or activation of improvised explosive devices during flight.
- Discreetly alerting the crew and ground authorities.
- Preventing incidents linked to internal threats or terrorism through targeted, non-invasive interventions.



In recent years, the increasing sophistication of terrorist techniques has exposed the vulnerability of air transport, especially regarding the introduction and assembly of improvised explosive devices (IEDs) directly on board during flight. Despite strict security controls on the ground, in-flight security remains precarious: once airborne, crew members have limited means to detect or neutralize internal threats.

## Hijacking in Belize - April 17, 2025 A U.S

A citizen, armed with a knife, hijacked a domestic Tropic Air flight (Cessna 208B Grand Caravan EX) from Corozal to San Pedro, injuring two passengers and a pilot. The hijacker was killed by one of the injured passengers during an emergency landing in Belize City.

February 23, 2025 - Flight AA292 (American Airlines):  
New York ✈️ Delhi

A Boeing 787-9 flying from New York to Delhi received a report of a possible explosive device on board while flying over the Caspian Sea. The aircraft changed course and made an emergency landing at Rome Fiumicino Airport, escorted by two Eurofighter jets from the Italian Air Force. There were 199 passengers on board. Inspections of the cabin, cargo hold, and luggage yielded negative results. The threat was deemed unfounded.

# Severity of the Problems

## Action and Response Module

### Action and Response Module

If a threat is detected:

A silent alert is sent to the co-pilot and ground authorities.

An automated protocol provides specific instructions to the crew.

Situations such as onboard bombs, hijackings, or ongoing explosive threats can be managed effectively.



## Onboard Technology

### 1. Chemical and Wave Detection

Sensors capable of detecting minimal traces of explosive substances.

Emission of sound waves and analysis of their return to identify environmental changes or unusual materials on board.



## Rely on Parthenope Flight Security

### Why choose us:

Flying Shield represents a revolution in aviation security by addressing a long-overlooked problem: the in-flight assembly of bombs.

Unlike traditional systems that operate only on the ground, Flying Shield provides intelligent, continuous monitoring capable of detecting threats in real time—without causing panic.

We are:

Innovative, using advanced sensors, AI, and automated response modules.

Adaptive, improving with every flight.

Reliable, designed by aviation security and tech experts.

Discreet, operating without disrupting passengers or crew.

Choosing Flying Shield means protecting the future of aviation.

**Safe flight, always.**

### Partnerships

#### Funding and Partnerships

European grants (e.g., Horizon Europe - Advanced Security).

Venture capital focused on aerospace and defense.

Partnerships with airports, airlines, and aircraft manufacturers.



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*Ensuring Safety in Flight Navigation*

*Thanks for Your Attention*

