

Good Enough?

Certification in an evolving industry

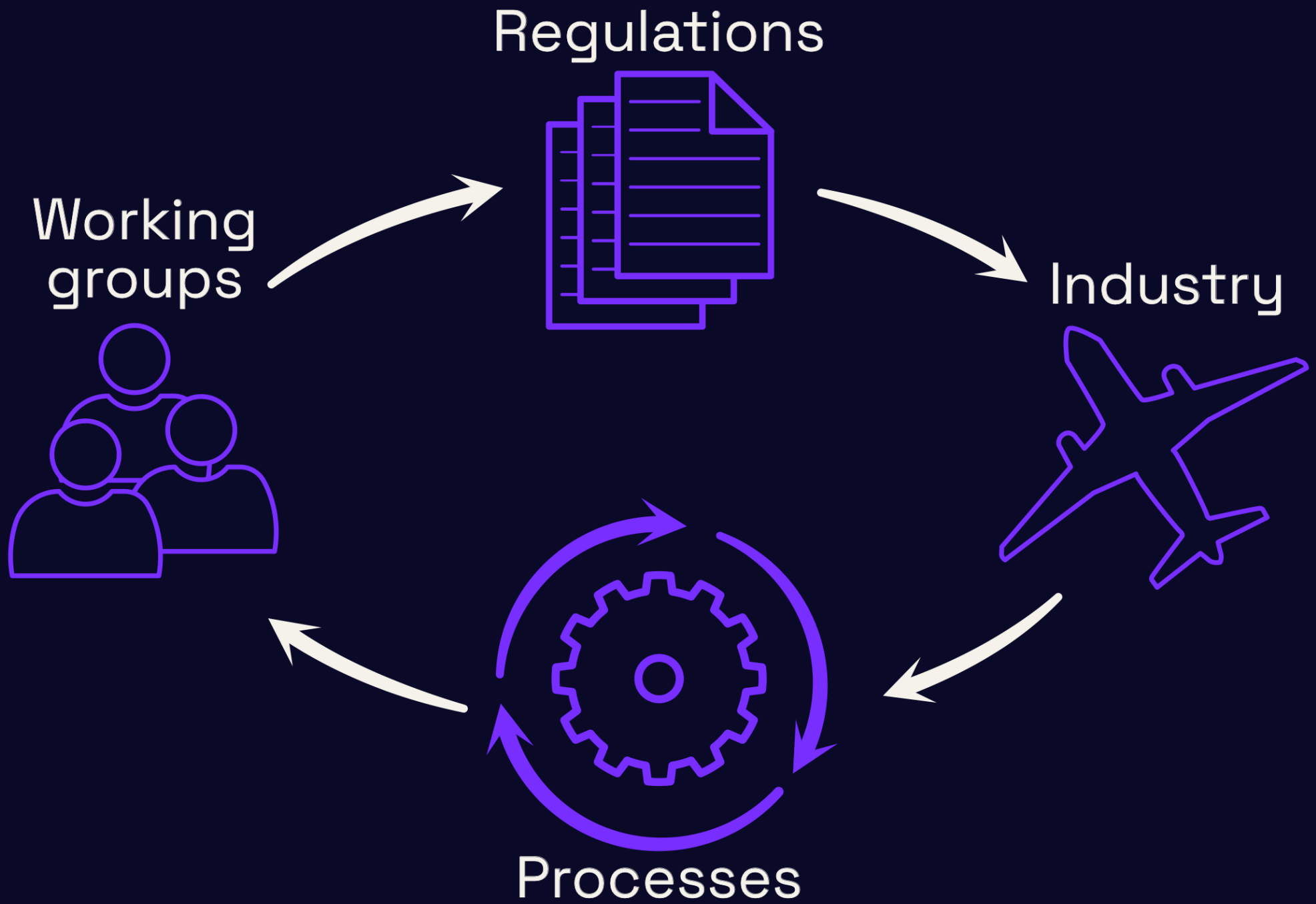
Alex Powell

The logo for VOLANT, featuring the word in a white, sans-serif font. The text is positioned over a stylized, purple, starburst-like graphic composed of fine lines radiating from a central point.

HISC
HIGH INTEGRITY SOFTWARE
CONFERENCE
OCT 22, 2024

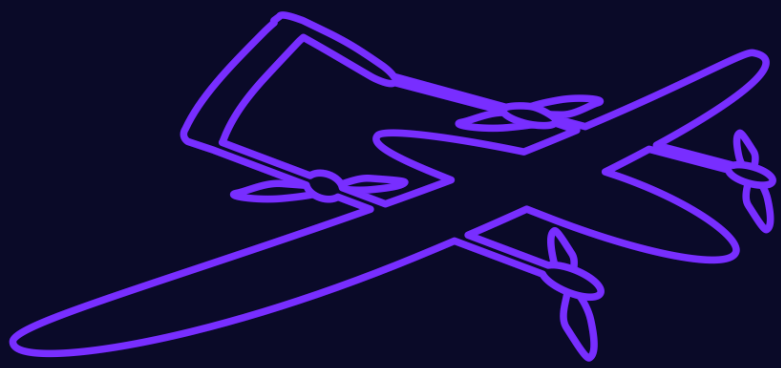
“...a passenger who boards a random commercial flight every day would take approximately 79,000 years before being killed in a commercial aircraft accident”

A. Lawrenson et al, Commercial Aviation Safety, 7th Edition

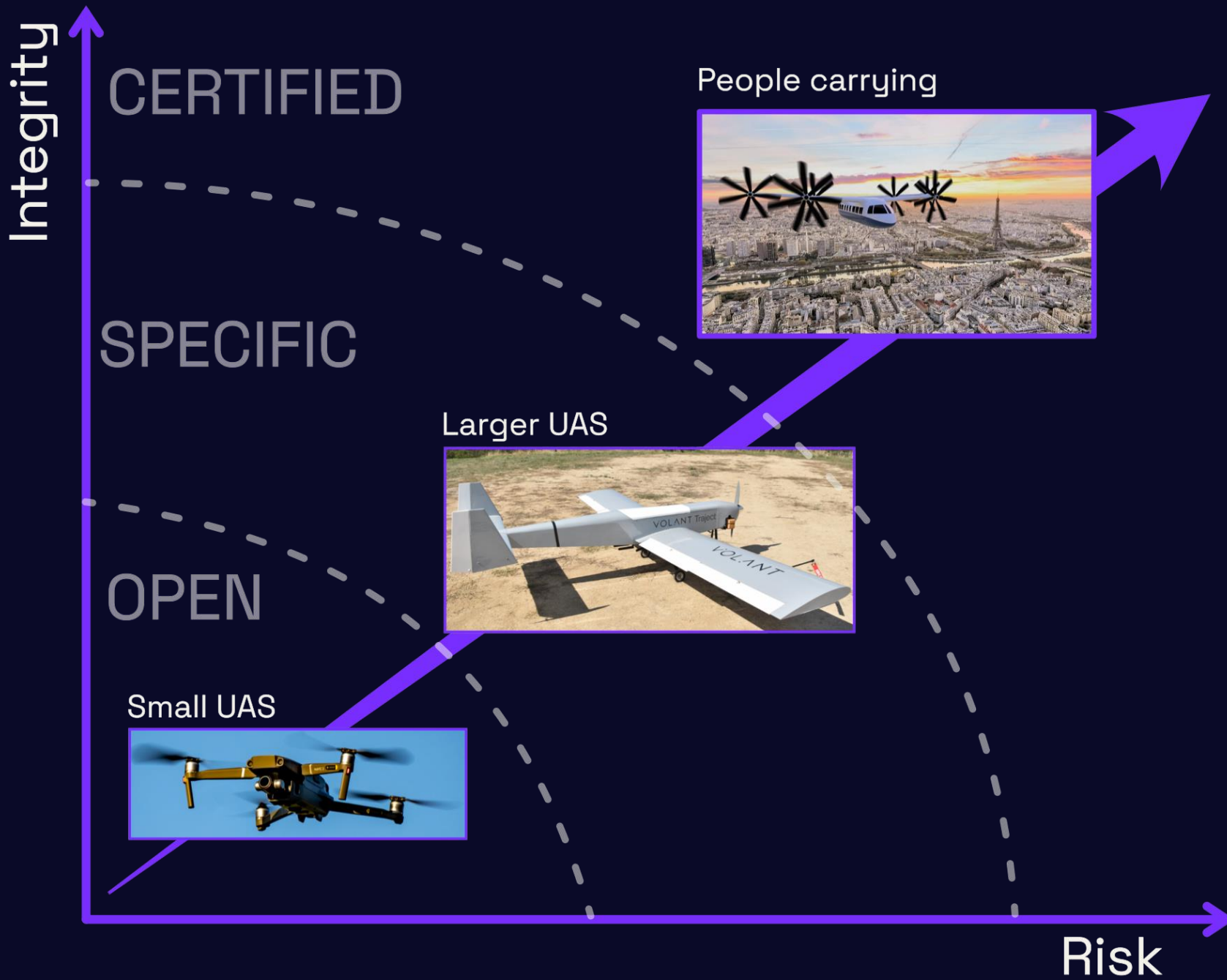




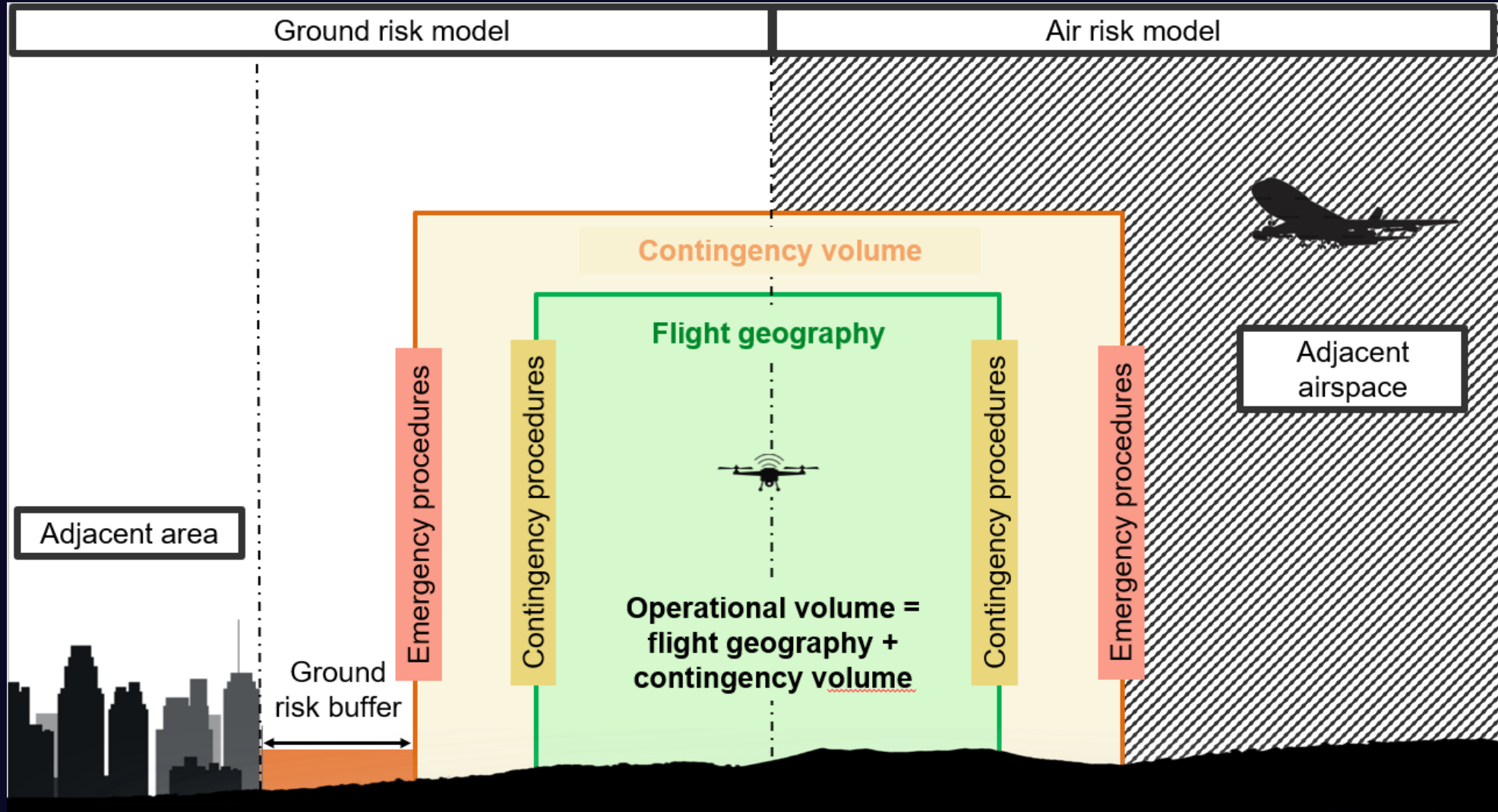
4-10 years



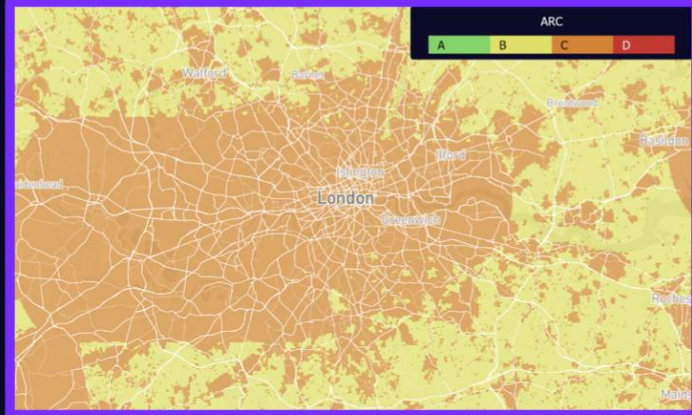
? years



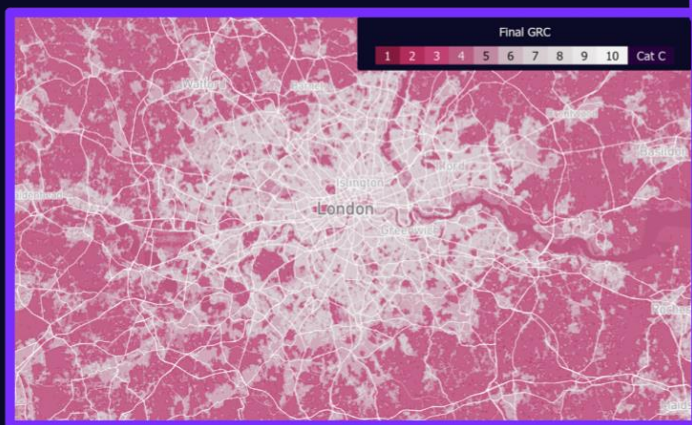
Specific Operational Risk Assessment



Air Risk Classification (ARC)

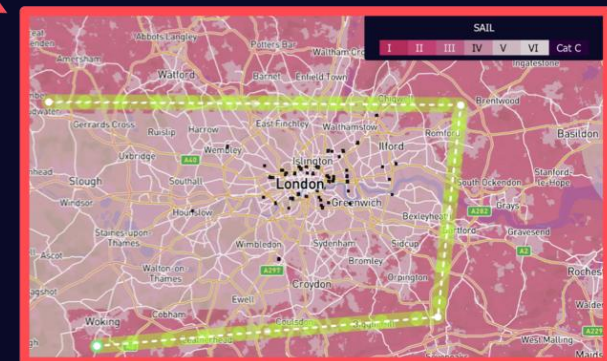
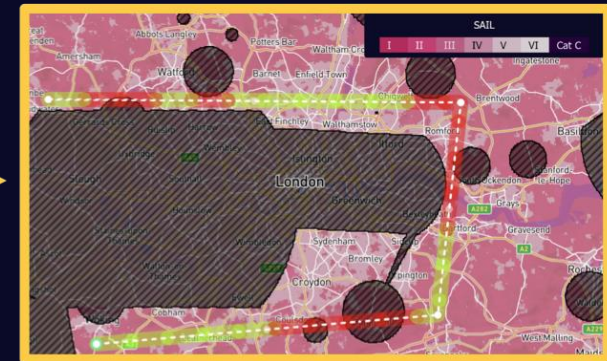


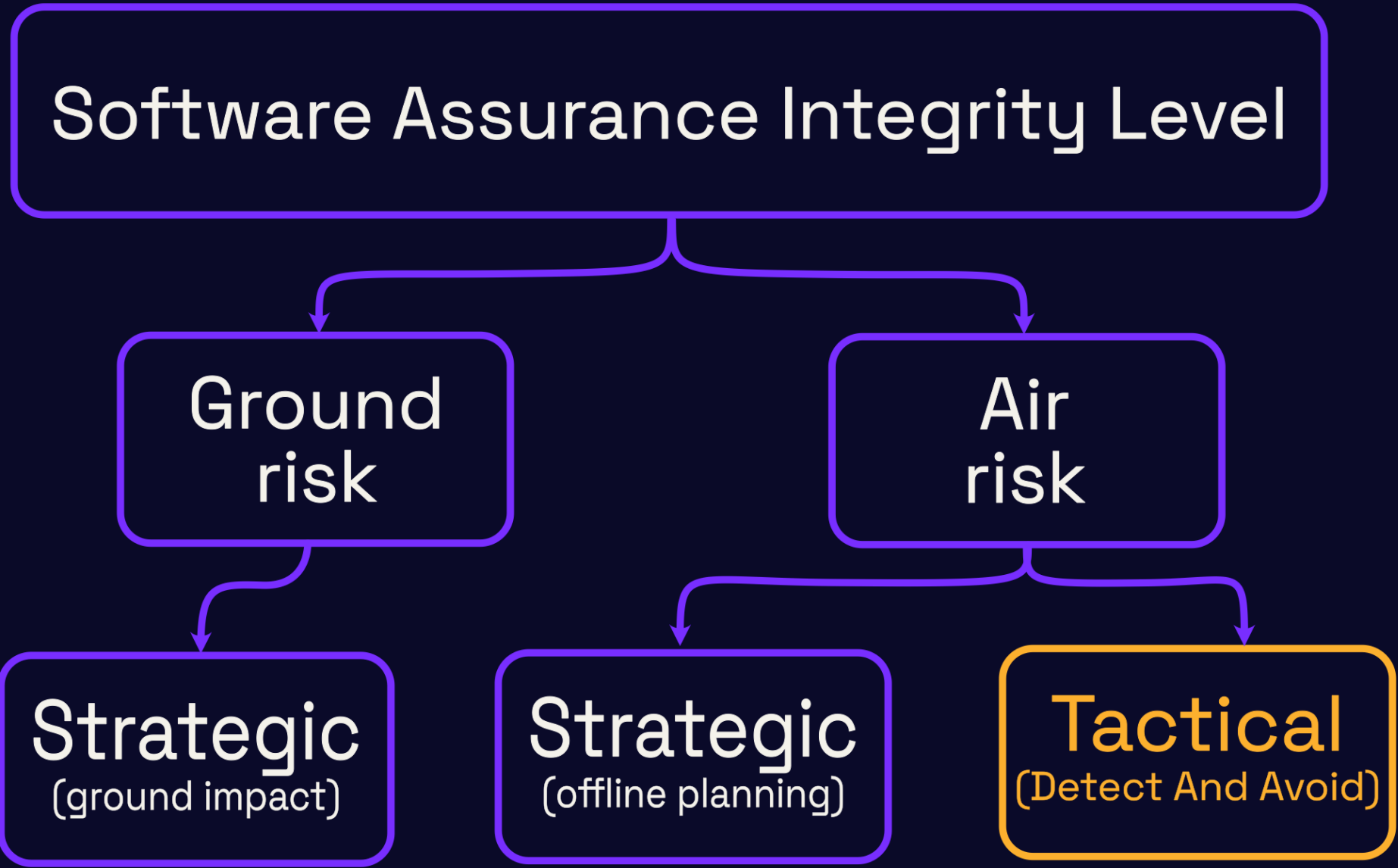
Ground Risk Classification (GRC)



SAIL Determination

| Final GRC | Residual ARC | | | |
|-----------|----------------------|-----|----|----|
| | a | b | c | d |
| ≤2 | I | II | IV | VI |
| 3 | II | II | IV | VI |
| 4 | III | III | IV | VI |
| 5 | IV | IV | IV | VI |
| 6 | V | V | V | VI |
| 7 | VI | VI | VI | VI |
| ≥7 | Category C operation | | | |

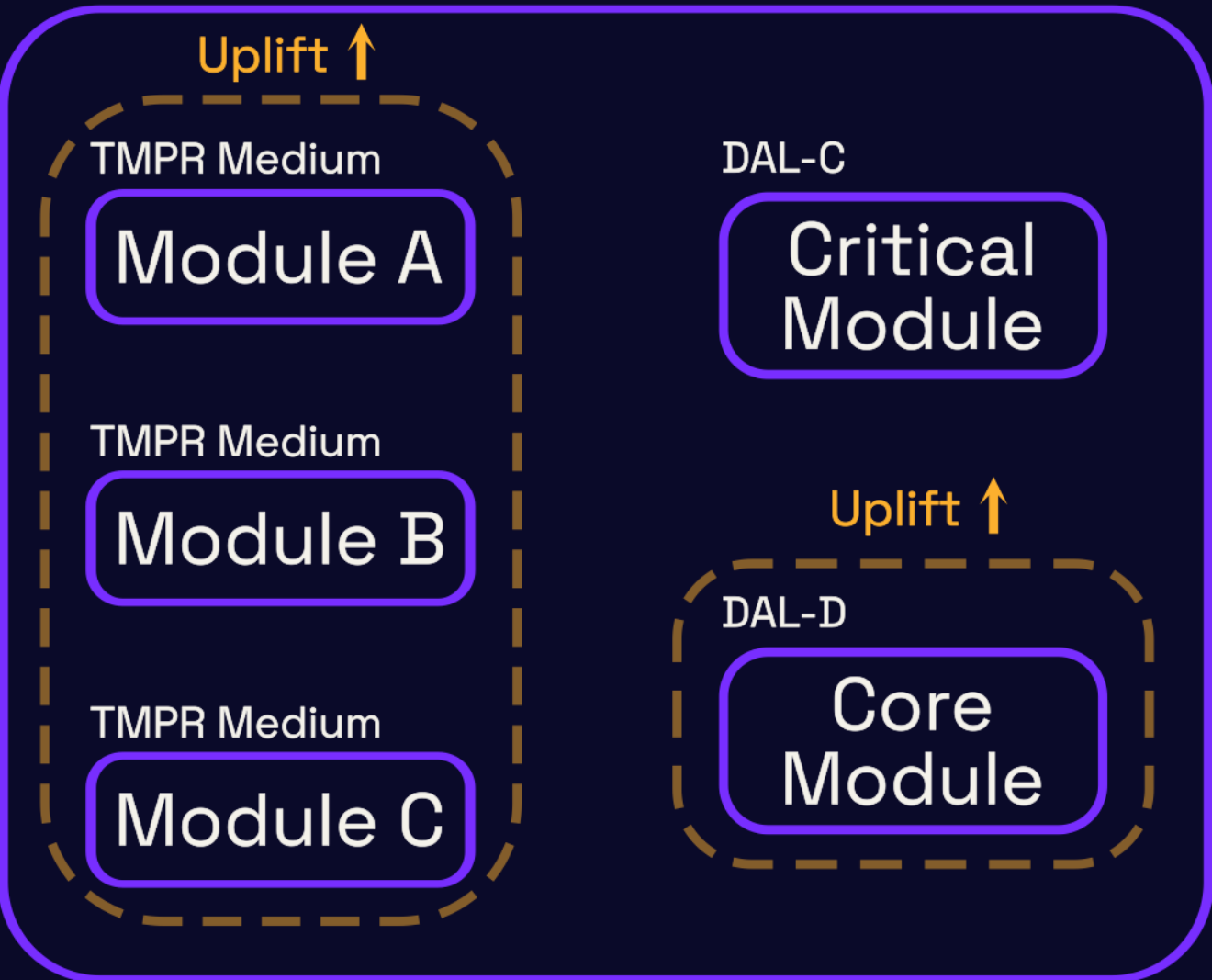






TMPR Medium

Integration Module



SAIL
IV

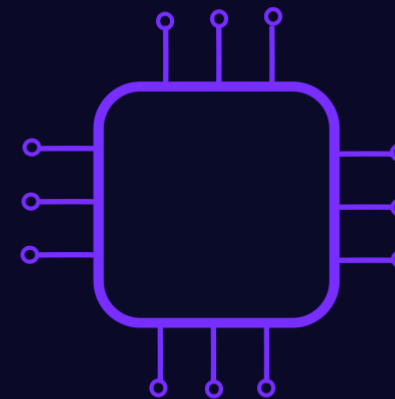
SAIL
VI

DAL-A



2025

2040



CONNECTIONS HEALTH

AIRCRAFT HEALTH

OWNSHIP

TRAJECT ON

TRAFFIC

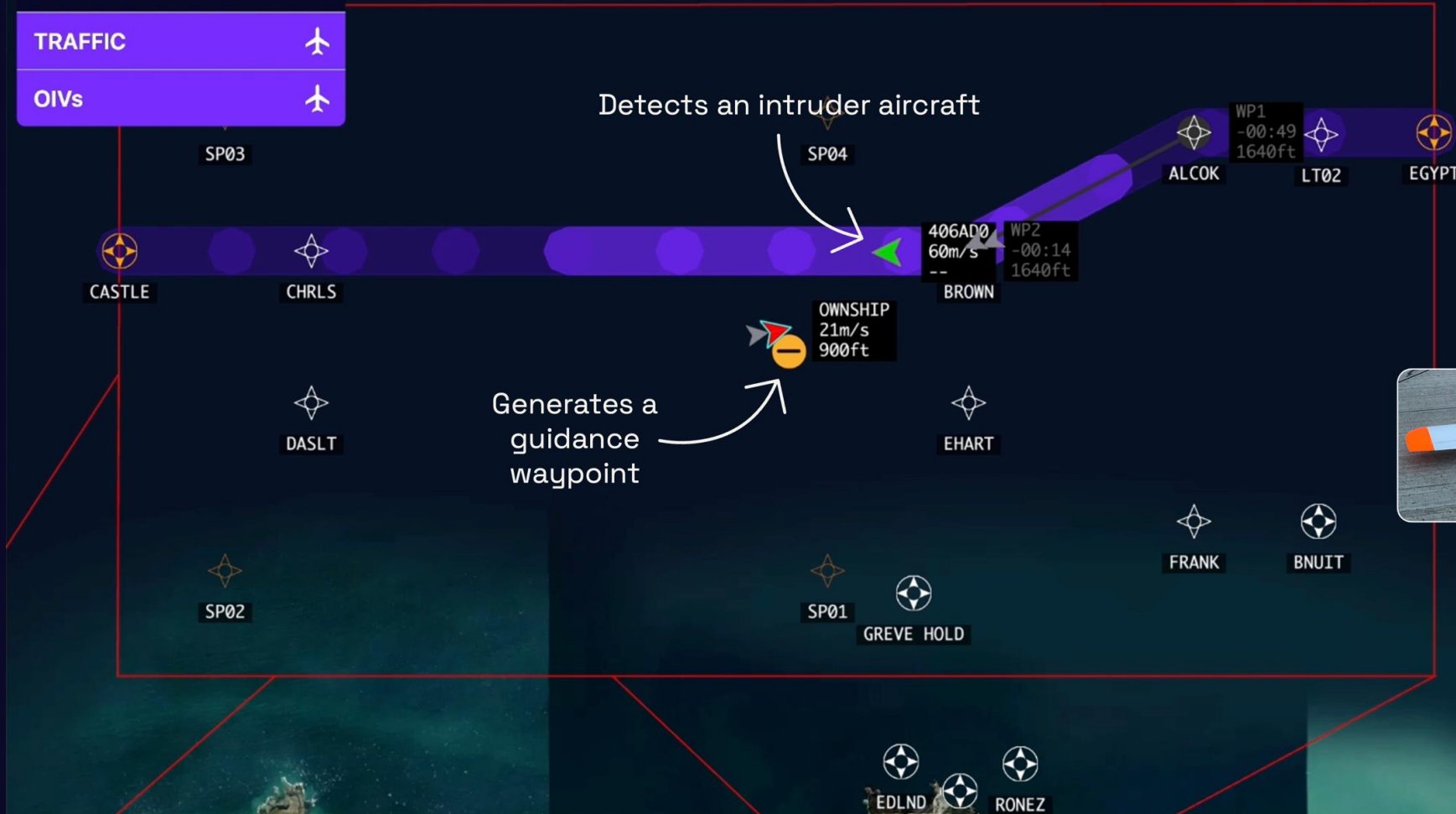
OIVs

Right turn to 150.0 degrees

Issues an alert to the remote pilot

Detects an intruder aircraft

Generates a guidance waypoint



Questions?

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