



# CORRIDOROS

## Infrastructure Tooling for Air Corridor Planning & U-space Compliance

*A digital planning interface that enables European cities and authorities to design Urban Air Mobility corridors that are safe, compliant, and socially acceptable.*

Urban Air Mobility is accelerating, but cities, hospitals, and regional authorities lack the digital tools to define where these aircraft can fly.

- **Current State:** U-space systems focus on *tactical* deconfliction (USSPs), but there is no standardized way for cities to input *strategic* constraints (noise limits, hospital buffers, operating hours) into the system.
- **The Result:** Regulators face a massive administrative burden coordinating with local stakeholders (Article 18(f)), and cities fear losing control of their low-altitude airspace.

### What CorridorOS Does

CorridorOS is the digital architect tool for U-space. It allows authorities to intake, validate, and standardize local constraints into machine-readable data that U-space service providers can use.

1. **Digital Corridor Design:** Maps safe and acceptable flight routes using 3D building data, noise sensitivity layers, and population density models.
2. **Compliance & Policy Engine:** Translates local rules (e.g., "No flights over schools during exams") into standardized U-space constraints that are fully traceable to EASA regulations.
3. **Capacity & Slot Management:** Calculates safe throughput and allocates protected access windows for critical missions (e.g., medical transport) so hospitals have predictable service.

### Positioning in the U-space Ecosystem

CorridorOS operates as a neutral planning layer.

- It validates data for the Competent Authority.
- It standardizes inputs for USSPs.
- It does NOT perform tactical air traffic control or flight authorization.

We do not replace the regulator; we provide the digital tooling they need to scale.

### Pilot Corridor: Luxembourg CHL ⇌ Ettelbruck

**Route:** CHL (City) ↔ CHL Nord (Ettelbruck) **Mission:** Critical Tissue & Blood Transport **Validation:** We are modeling this corridor to demonstrate how **Noise Budgeting** and **Protected Slots** can make urgent drone logistics politically and operationally viable in a dense European environment.

