

# INTELLIGENT LIFE-SAVING AIR CORRIDORS

FROM 747F TO VIAL AND BACK







Introduction

# The Journey

## From 747F to vial and back

### 747F Cargo Operations

Operational efficiency, capacity optimization, route planning

### **Clinical Trial Company**

Regulatory compliance, temperature control, documentation

#### Airline GSA

Market intelligence, customer needs, strategic partnerships

# TRENDS REMAIN



- Global Health Disruptions: Pandemic responses, supply chain vulnerabilities, humanitarian crisis
- Regulatory Complexity: country-specific requirements, uneven global coverage
- Temperature Integrity: Cold chain maintenance across multiple touchpoints
- Capacity Constraints: Limited qualified carriers and handling facilities
- Sustainability Pressure: Carbon footprint reduction while maintaining service



# AIRLINE VS. SHIPPER PERSPECTIVE

Healthc'Air-

From 747F to vial



## **DIFFERENCES**

Information availability

Data flow

Level of control

Chain/change of custody

# **SIMILARITIES**

Ultimate purpose- PATIENT

Uninterrupted cold chain

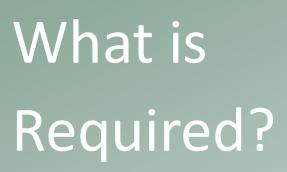
Personalized strategies

Sustainability programs



# **INTELLIGENT PHARMA CORRIDORS**

Unrestricted





Dynamic Routing (adaptive corridor management, based on historical data and market intelligence)



Access to capacity and thermal solutions



Proactive and predictive 24/7 Control Tower



Access to data Real-Time Monitoring (IoT sensors & blockchain tracking)



System co-integration



Digital Twin Corridor Management (virtual network-real time analytics-instant optimization)



Predictive analysis (Al driven demand forecasting and route optimization )

# BALANCING OPERATIONAL EXCELLENCE

#### **EFFICIENCY OPTIMIZATION**

- Hub-and-spoke vs. direct routing analysis
- Load factor optimization for pharma cargo
- Integrated ground handling processes
- Automated documentation workflows

#### **SUSTAINABILITY INTEGRATION**

- SAF utilization strategies
- Carbon-neutral packaging
- Efficient routing algorithms
- Renewable energy facilities

#### **CAPACITY MANAGEMENT**

- Dedicated pharma allocations/positions
- Priority booking systems
- Backup capacity agreements

#### **REGULATORY COMPLIANCE**

- GDP-compliant facilities network
- Automated temperature logging
- Digital chain of custody
- Regulatory change management







# What Is Happening Now?

Transitioning from the traditional

#### CARRIER / HANDLER / FORWARDER

model to offering intelligent and integrated services along with multifaceted solutions.

There are many "WHAT IFS"

in forecasts and development scenarios, and the absence of clear cyclical trends presents numerous challenges.



# Healthc'Air

Building a modular pharma eco-system together with airlines

**Healthc'Air** is an independent pharma air logistics solution designed to **empower airlines** in navigating complex world of pharmaceutical transport. And **bridging the gap** between ambition and operational excellence in a rapidly evolving healthcare logistics landscape.

Healthc'Air supports airlines to launch, scale, and lead in pharma air logistics- no matter starting point

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# **THANK YOU**

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