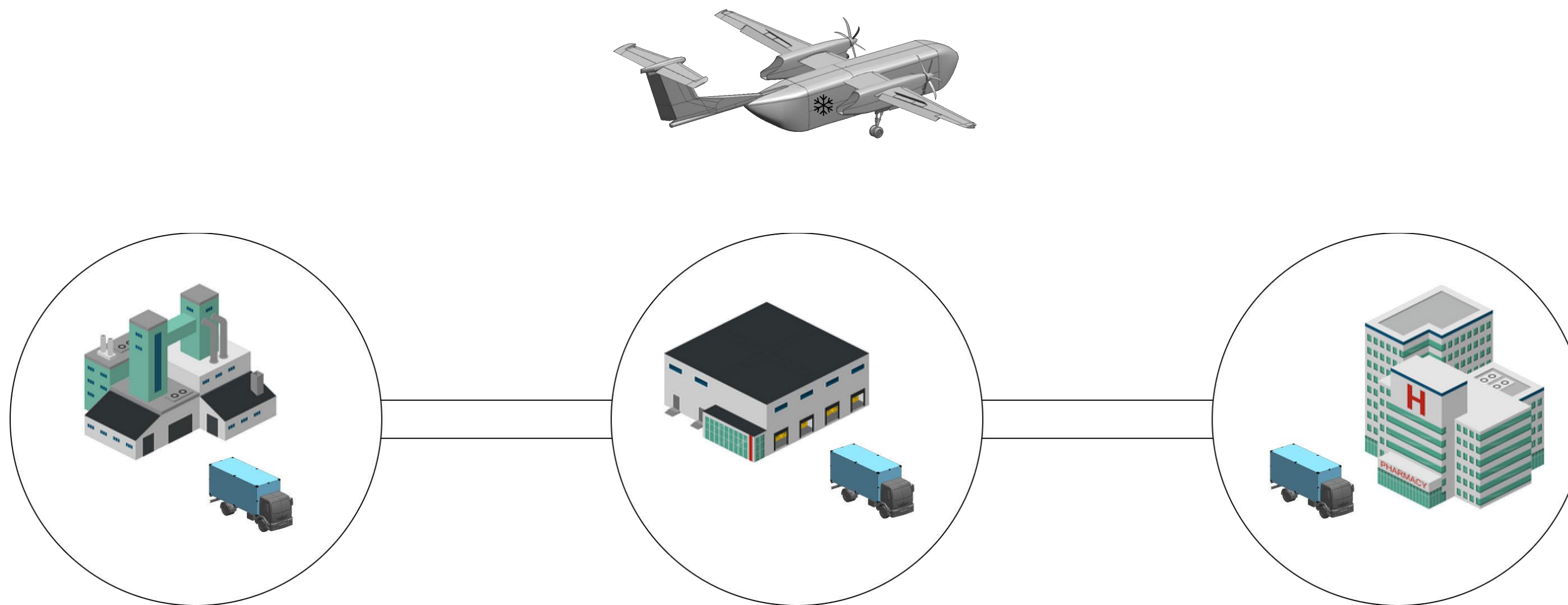


BYBLOS

“Real-time, compliant cold-chain delivery, powered by renewable energy— anywhere in the world”



The Challenge

Pharma Has Advanced — Logistics Hasn't

- Over \$1 trillion in AI and precision medicine in the last 12 months
- Yet slow or costly logistics make AI-driven decision-making irrelevant at the point of care
- 50-year-old CO₂-based cold-chain methods remain industry standard



AI-driven Pharma



Cold-chain logistics



The Impact

Every Hour Lost = Patient Waiting

- 1-2% of global biologics spoiled each year due to logistics failures
- 624M sq ft excess pharma warehousing = trapped working capital
- Restricting shipments to major hubs increases failure points risk and reduces flexibility
- Byblos enables 5x more accessible runways, greatly increasing routing flexibility and inherent resilience, along with intermodal compatibility

~1,300



777 capable airports

~6,750+

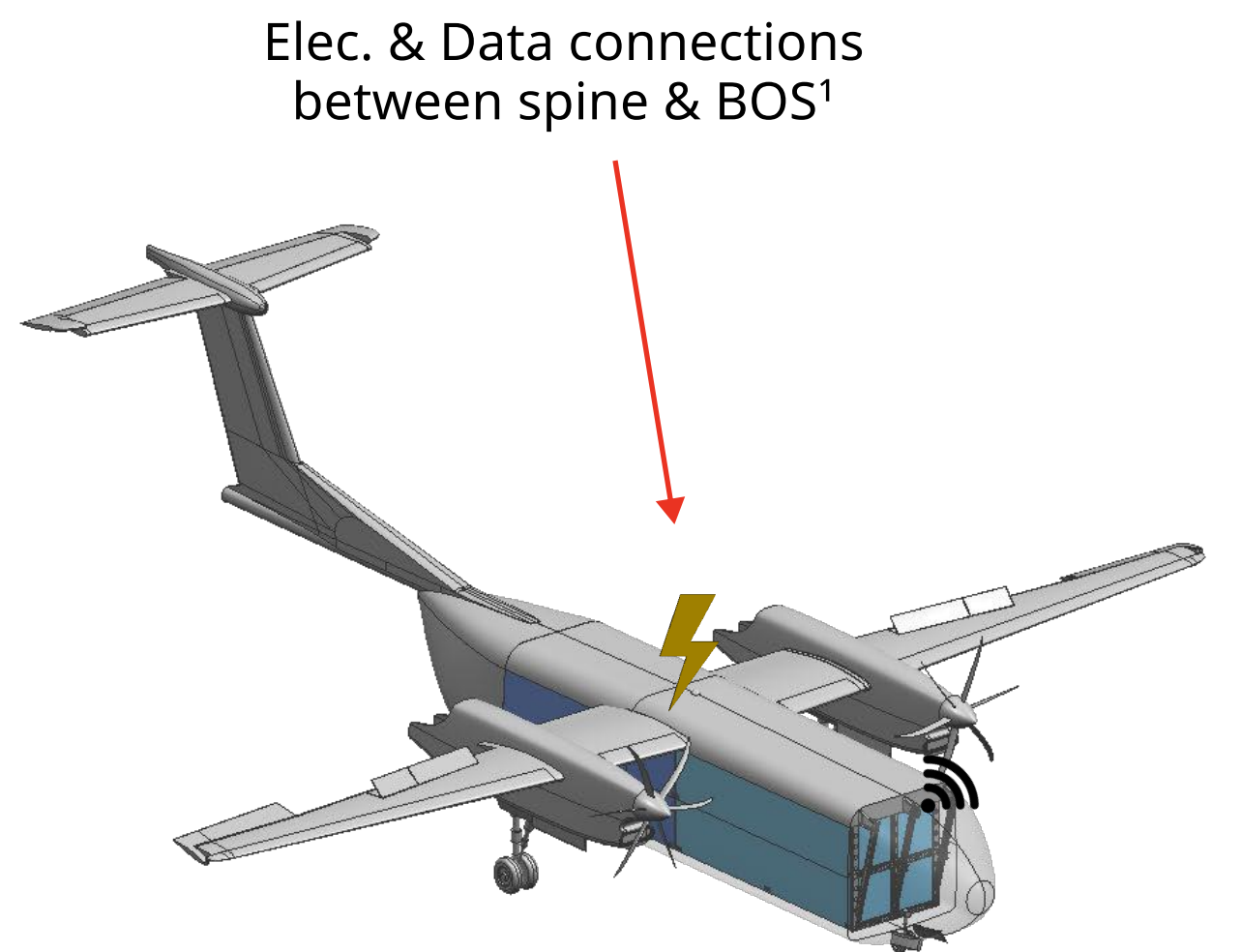


Dash-8 capable airports

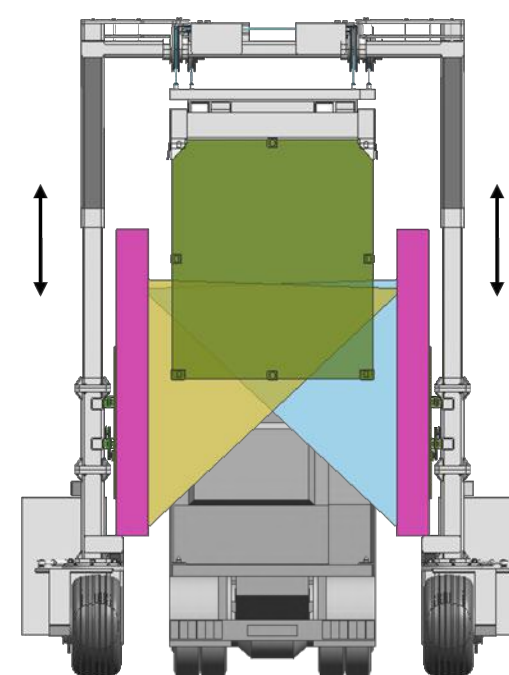
The Byblos Solution

Electrified BOS¹ containers— Active Cooling, Zero Hand-offs

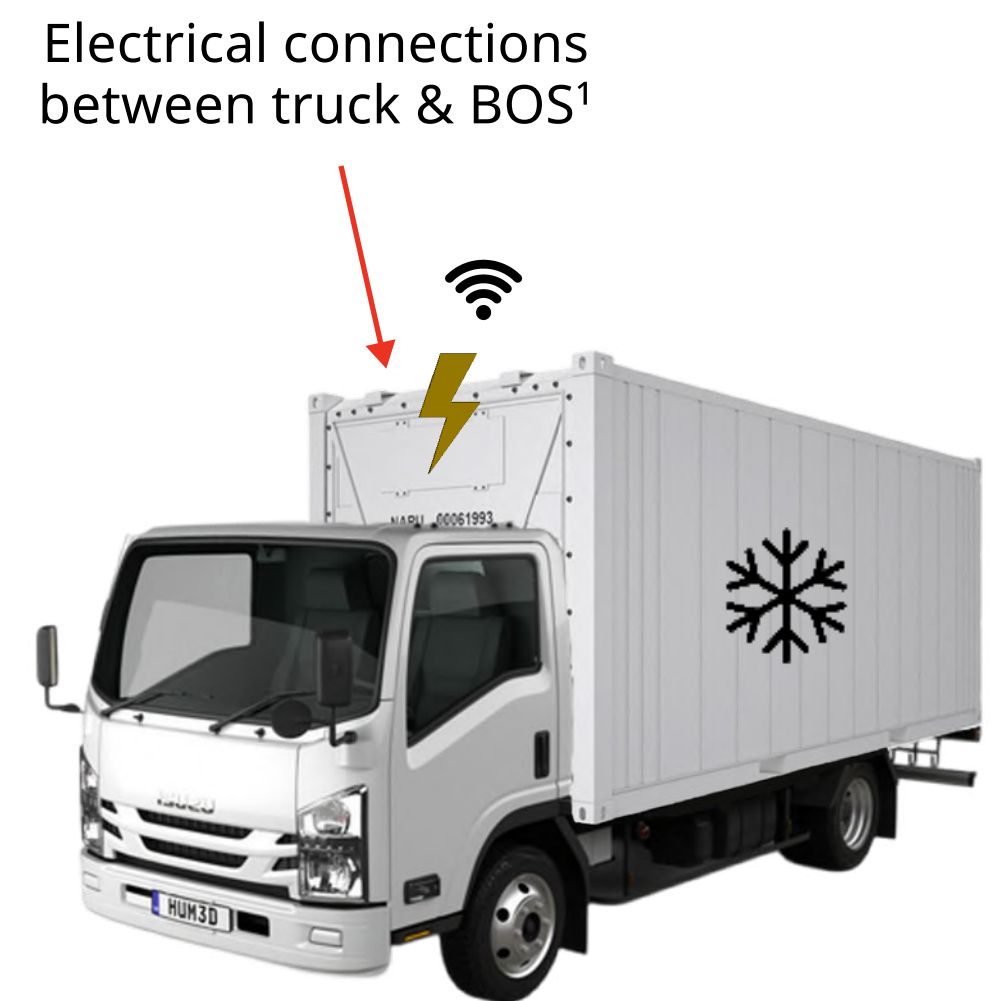
- Continuous power from aircraft or std truck + additional 3-hr battery to smooth transfers
- No dry ice — fully automated and GDP/CEIV compliant
- Leverages existing aircraft billions in sunk costs — converting, not reinventing — minimizes cost of certification + time to market



Built on Certified Platforms— Faster to market



Straddle Carriers
(modified for x-ray capability)



Common 16T truck

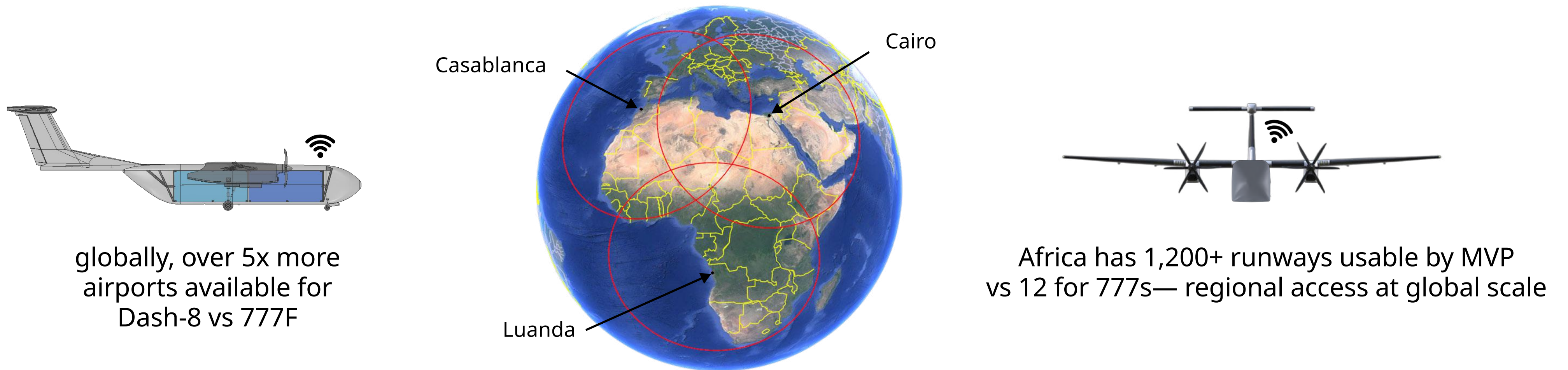
¹BOS (Byblos Omnimodal System) compatible with existing intermodal networks and plugs into all modes (truck/air/rail/sea) with 3 hrs battery for emergencies 4

Performance & Cost Efficiency

1M Doses per Flight— 79% Lower Cost per Dose

- Dash-8 MVP carries same payload as 777F (belly cargo limits due to CO₂)
- Lower operational costs with greater access and flexibility
- 100% renewable fuel = sustainable scaling

Example: **3x African Hubs** cover mainland + reach Norway to Estonia to Uzbekistan

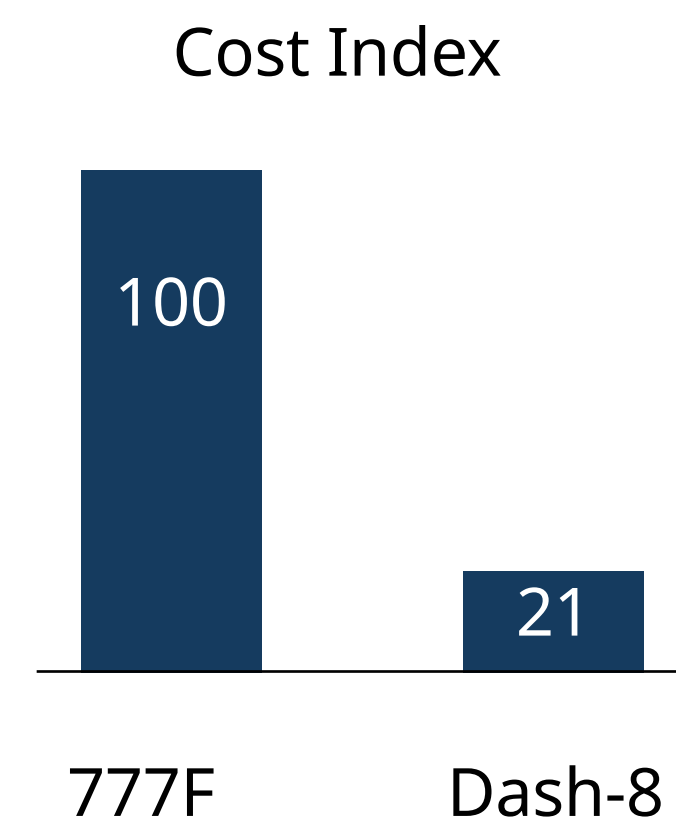


25% more cargo for the same fuel burn of unconverted planes

Robust & Resilient Network

Resilience by Design— Same 1M Doses— 79% Lower Cost + uses 80% less fuel than the 777F

- Distributed operations eliminate hub bottlenecks
- Real-time adaptive routing increases reliability during disruption
- Adds redundancy & continuity to mitigate weather, congestions, or labor events
- Dual-use ISO compatibility unlocks potential for back-haul utilization—reducing empty return flights, emissions, and cost per delivered dose²



2,000-mile route: ~\$145K saved
4,000-mile route: ~\$186K saved

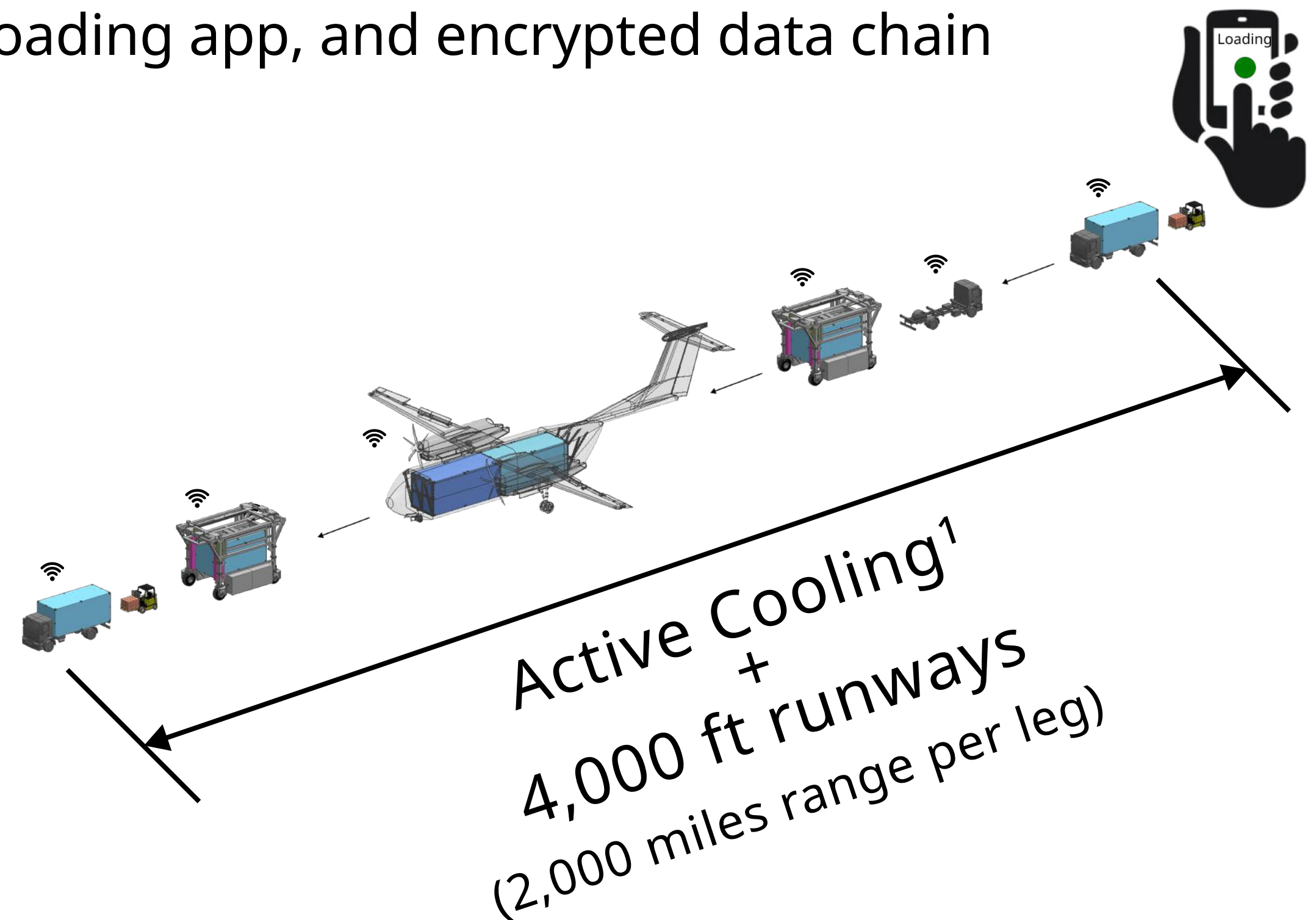
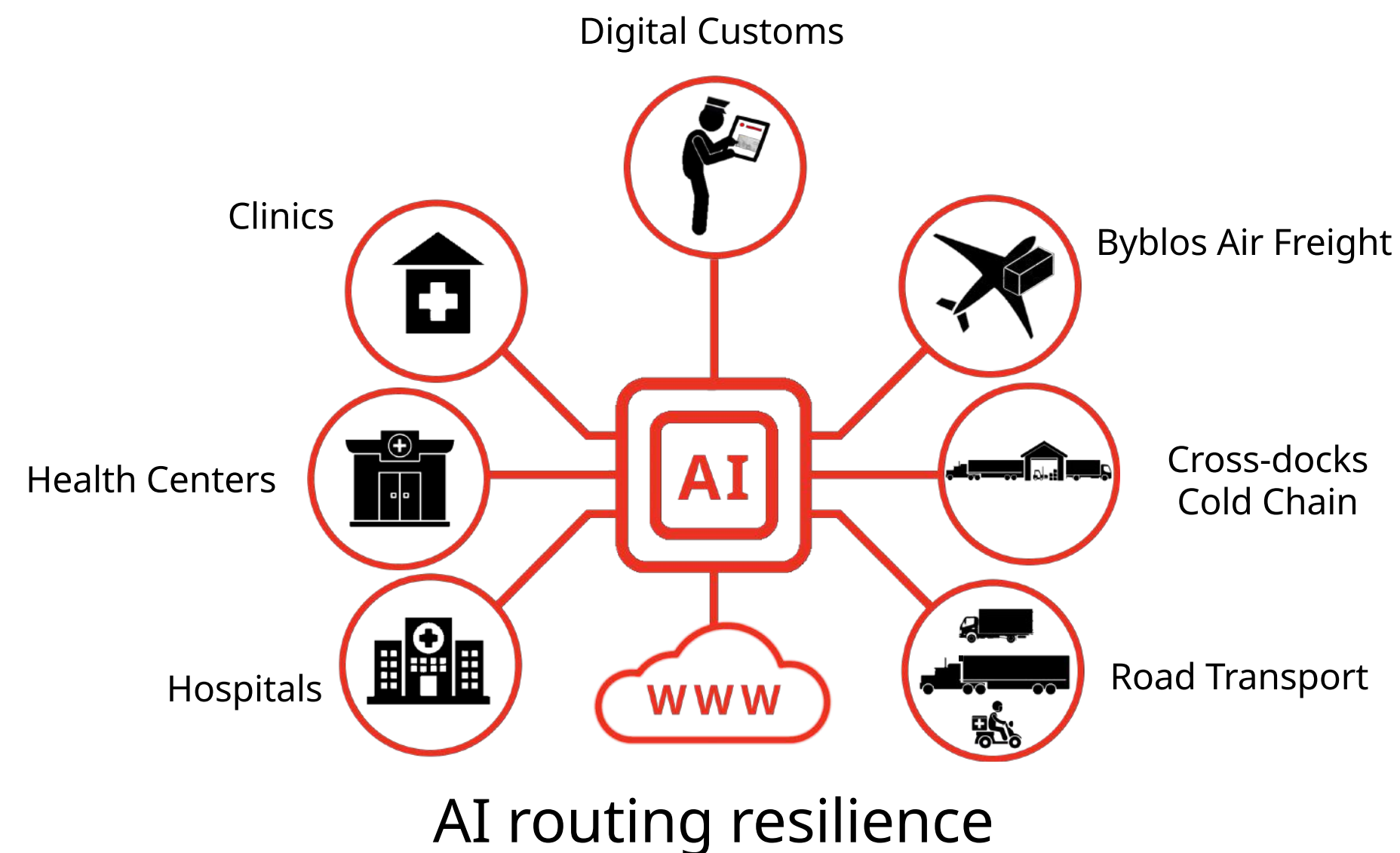
¹Includes one refueling stop for MVP

²Strict cleaning protocols would be followed meeting ISO 1496/2 and HACCP/GDP hygiene standards

Digital & Automated Operations

Always Cold, Always Visible

- AI-driven monitoring: temperature, power, location, security
- GDP/CEIV-aligned, digital customs, insurance, and payments
- Smart loading via sensor floor, loading app, and encrypted data chain

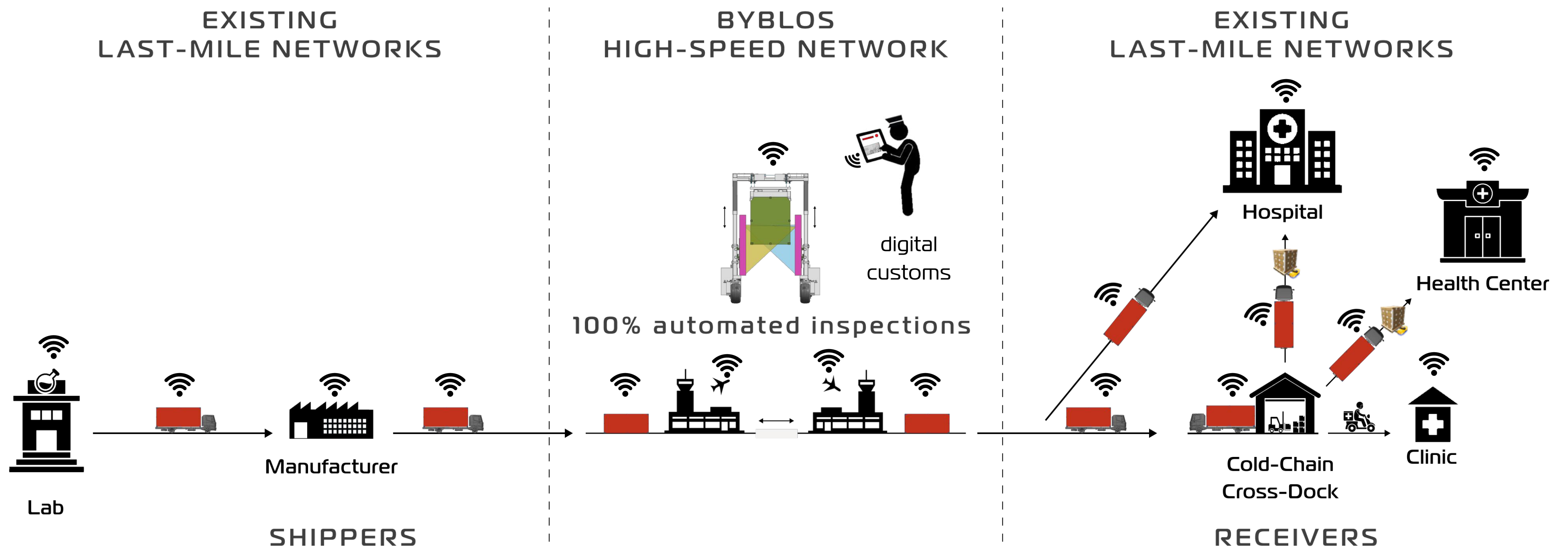


"Transforms the cold chain from reactive → predictive"

¹Active cooling with on-board 3-hr battery for emergencies

Global Network | Local Control

- Licensed GDP-compliant operators in each region
- No warehouses—containers move from factory → flight → clinic
- Multi-airport flexibility maintains delivery continuity options

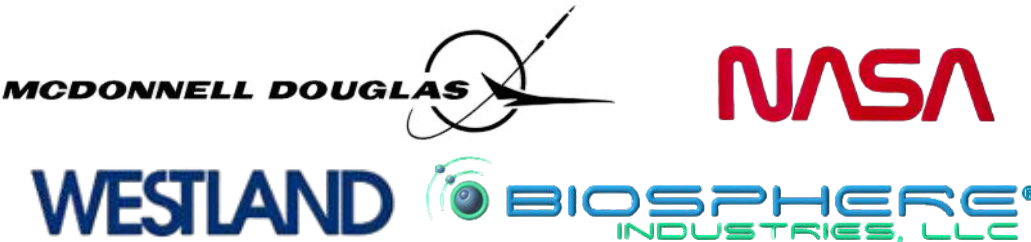


Proven Team— Execution & Certification Expertise

Built by Aerospace & Defense Veterans



- 50+ global patents; led commercialization across aerospace and sustainable materials
- Architected Byblos air-intermodal logistics
- Built cross-functional teams across US/EU/Asia
- Founded Biosphere Industries (\$60M+ raised)
- ex-McDonnell Douglas & Partners including space companies (composite and metal)



- 30+ years with Boeing, Northrop, Lockheed, & Flight Structures, Inc. experience
- Slated as CEO of Dorsal®
- FAA Structures DER (static, fatigue, fracture, flutter)
- TOGAA member; led 757-200 P2F STC at Precision Conversions
- Co-CEO at 777 Mammoth, led 777-200/300 P2F
- 200+ programs; deep rotorcraft, fixed-wing, and defense platform experience



- Former Chief of Staff to Secretary of the Navy; led 6,000 staff; \$1.3B budget
- 30+ years in DOD reaching civilian equiv. rank of 3-star general
- Oversaw \$900B defense & NASA contracts at DCMA
- Authored DOC outsourcing policy TS/SCI; Senior roles across OSD, USMC logistics
- Served as Chief of Staff for the MITRE CEO, a science and systems engineering firm



Byblos Group Inc. | Santa Barbara, CA | ElieH@byblosinc.com

Competitors: Freight Aircraft Market

No Current Viable Competitors

BWB
(Blended Wing Body)



JetZero



NATILUS

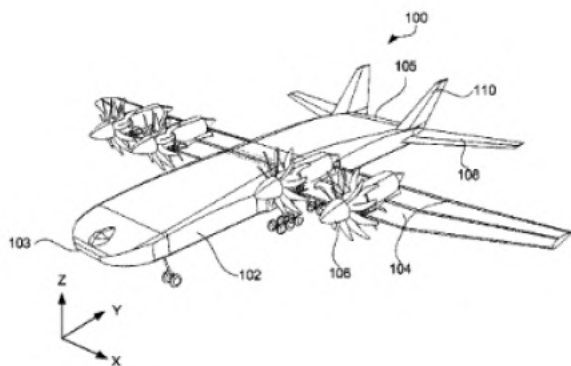


AIRBUS
ZEROE

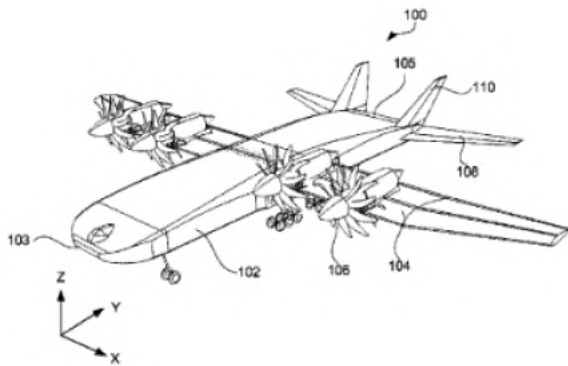
R&D

- 10s of billions to develop¹
- >10yrs

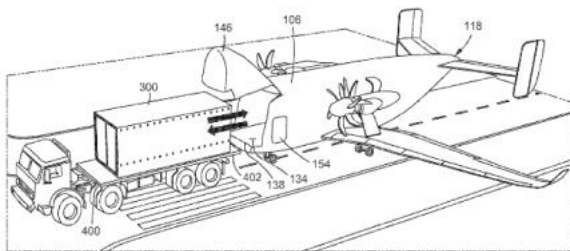
**New Intermodal
Aircraft Concepts**



US7,891,608
BOEING



US9,205,910
BOEING



US11,932,374
BOEING

R&D

- 10s of billions to develop¹
- >10yrs

Blimps



H2 CLIPPER



LEMV (cancelled)
Northrop Grumman

R&D

- billions to dev. untested tech.¹
- ~10 years

**Existing Cargo
Aircraft (P2F)**



777F



767F



737F

BOEING



A350F



A330F



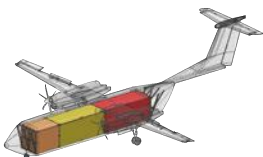
A321F

AIRBUS

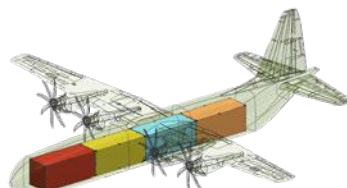
R&D

- Same design as 60 years ago¹
- 20x cost of intermodal networks

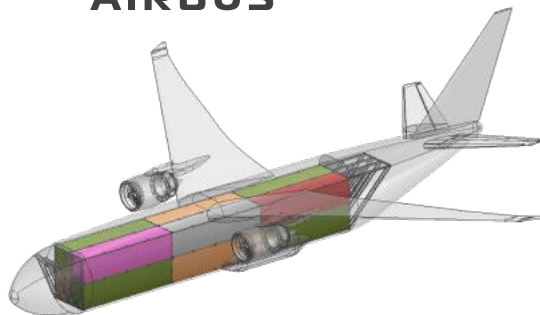
Byblos®



Sub-Regional
(proof-of-concept)



Regional



International

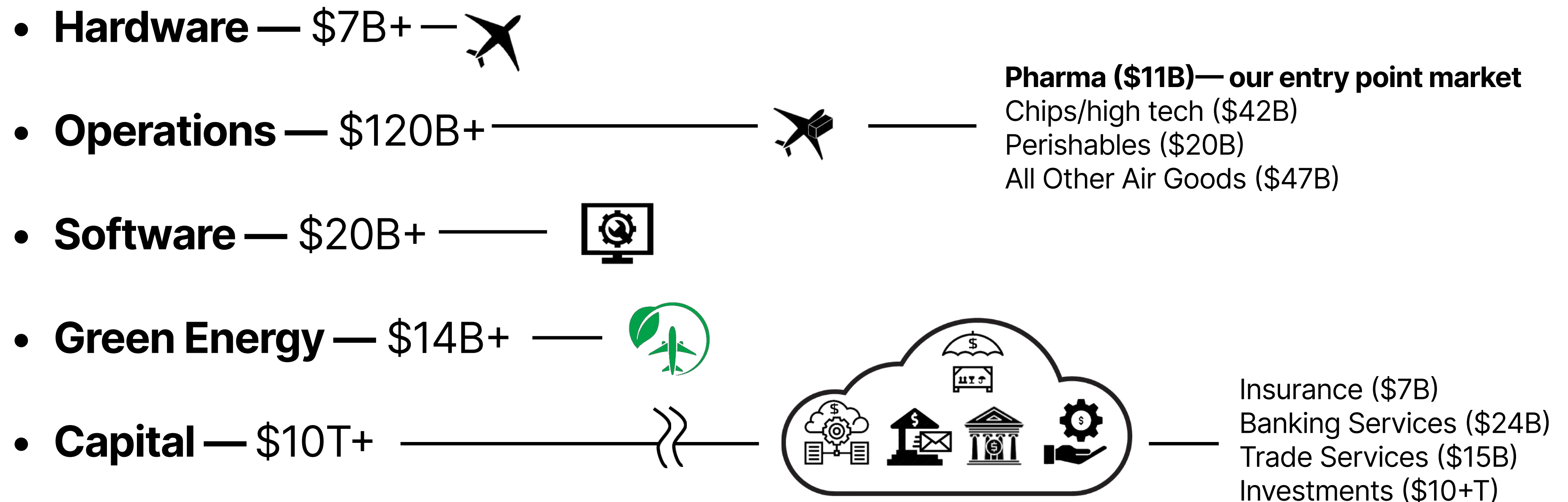
R&D

- \$50-\$100MM R&D Costs
- 2 years to 1st flight

¹Intermodal incompatibility greatly increases labor and warehousing costs

\$10 Trillion+ Ecosystem

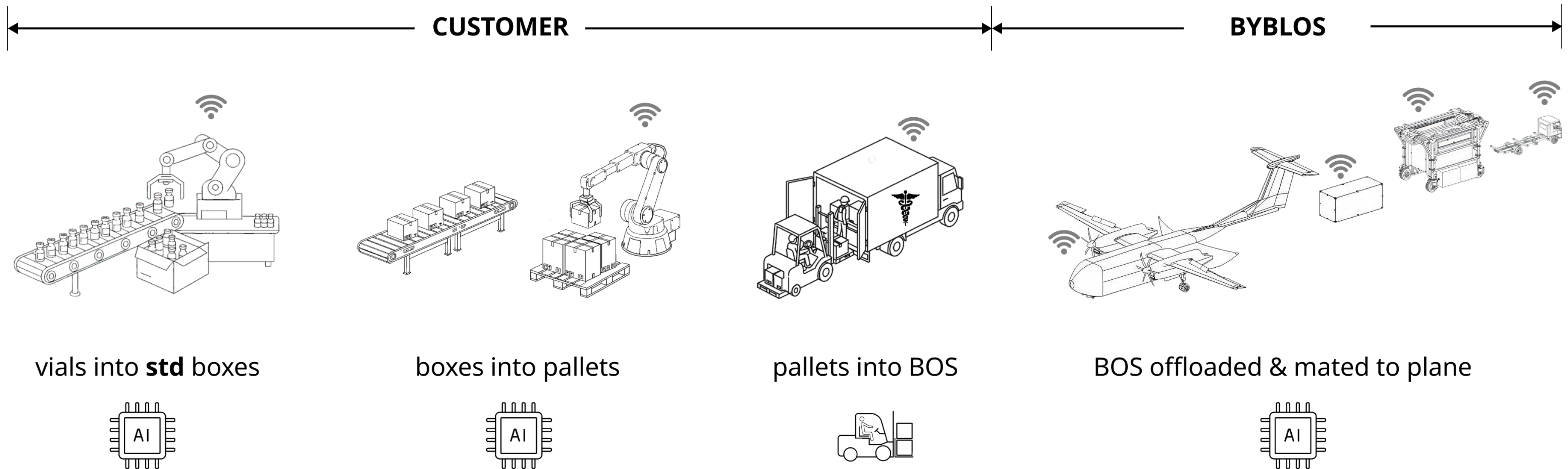
- **Pharma (\$11B) cold chain entry point** → Expands to \$10T Trade Ecosystem
- Our tech enables companies to ship logistics from a storage-based model to a speed-and-flow model



*“Just as railroads created an economic engine, built towns and invested to capture the value they created—
Byblos Capital co-invests in logistics parks, land, and industries enabled by our low-cost, <24hr network”*

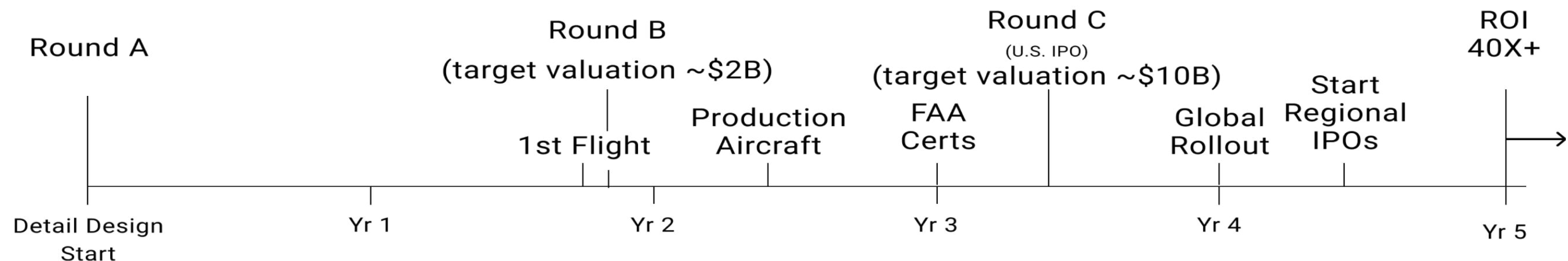
Fast, Compliant, Renewable

- <24h Global Delivery | 60-75% Lower Cost | 100% Renewable Fuel



MVP → Certification → Global Scale | 40x ROI by Year 5

- **Round A (\$55M)** MVP¹ Conversion & Demo Flights
 - **Round B (\$200M²)** Certifications, Production, Regional Roll-out
 - **Round C (\$1.5B)** IPO & global expansion
- Funding and/or Letter of Interest and help us reach our goal of first flight
 - First active-cooled BOS container flights
 - Pharmaceutical route pilots
 - GDP/CEIV validation for regulatory adoption



Funding → MVP → Regional Rollout → IPO

¹Airbus estimates that 408 aircraft of the MVP cargo type and size will be needed in the next 20 years (~\$13B demand just in our MVP size aircraft)

²Investors identified for Round B via Nomura & DLA Piper effort in 2022

Join Us in Building the Next-Generation Cold-Chain Network

Byblos integrates seamlessly within existing GDP/CEIV frameworks and enhances audit transparency across the supply chain

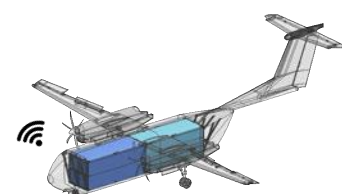
We're ready to partner with leading pharma companies to redefine how life-saving products reach patients—faster, cleaner, and more securely

By enabling full compliance for pharma outbound and safe reuse for food and other perishable goods on return legs, Byblos uniquely closes the cold-chain loop with near zero waste

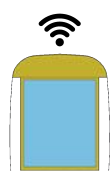


Contact: ElieH@ByblosInc.com | ByblosInc.com

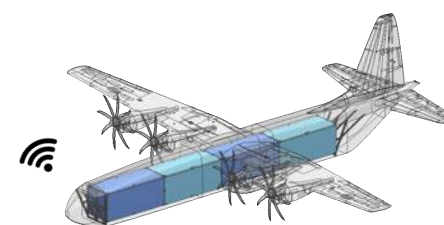
MVP + Sub-Regional
(de Havilland Dash 8-400)



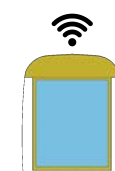
24,000 lbs
2 TEUs¹
2,000 miles
40ft long cargo bay



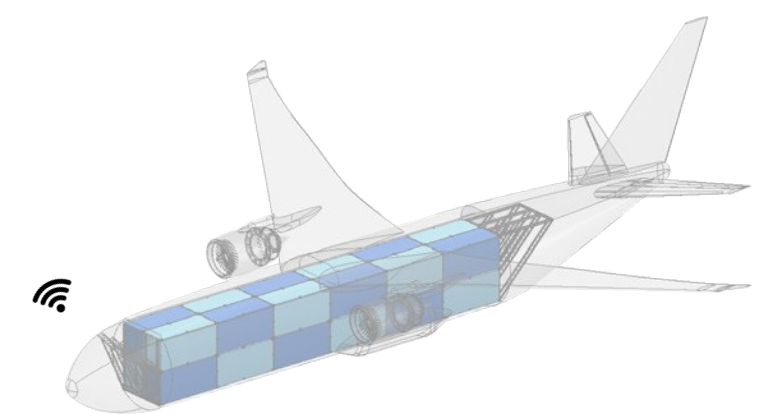
Regional
(LM-100J)



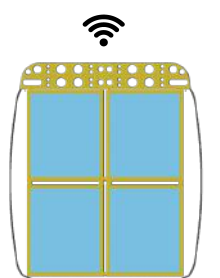
48,000 lbs
4 TEUs¹
3,000 miles
80ft long cargo bay



International
(777X & A350-1000)



288,000 lbs
24 TEUs¹
6,000 miles
120ft long cargo bay



Appendix

Massive market shift

Unlocks 5x more air freight demand

Proven tech base

\$4.5M invested to date, patented technology

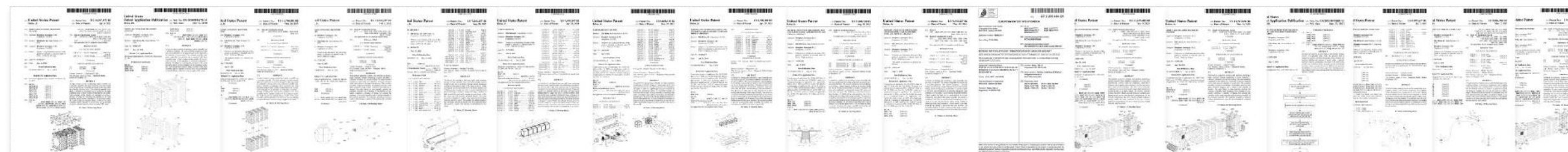
Scalable economics

Hardware entry, fintech/.com revenue dominance

Sustainable growth

Green energy, automation, GDP lift in developing markets

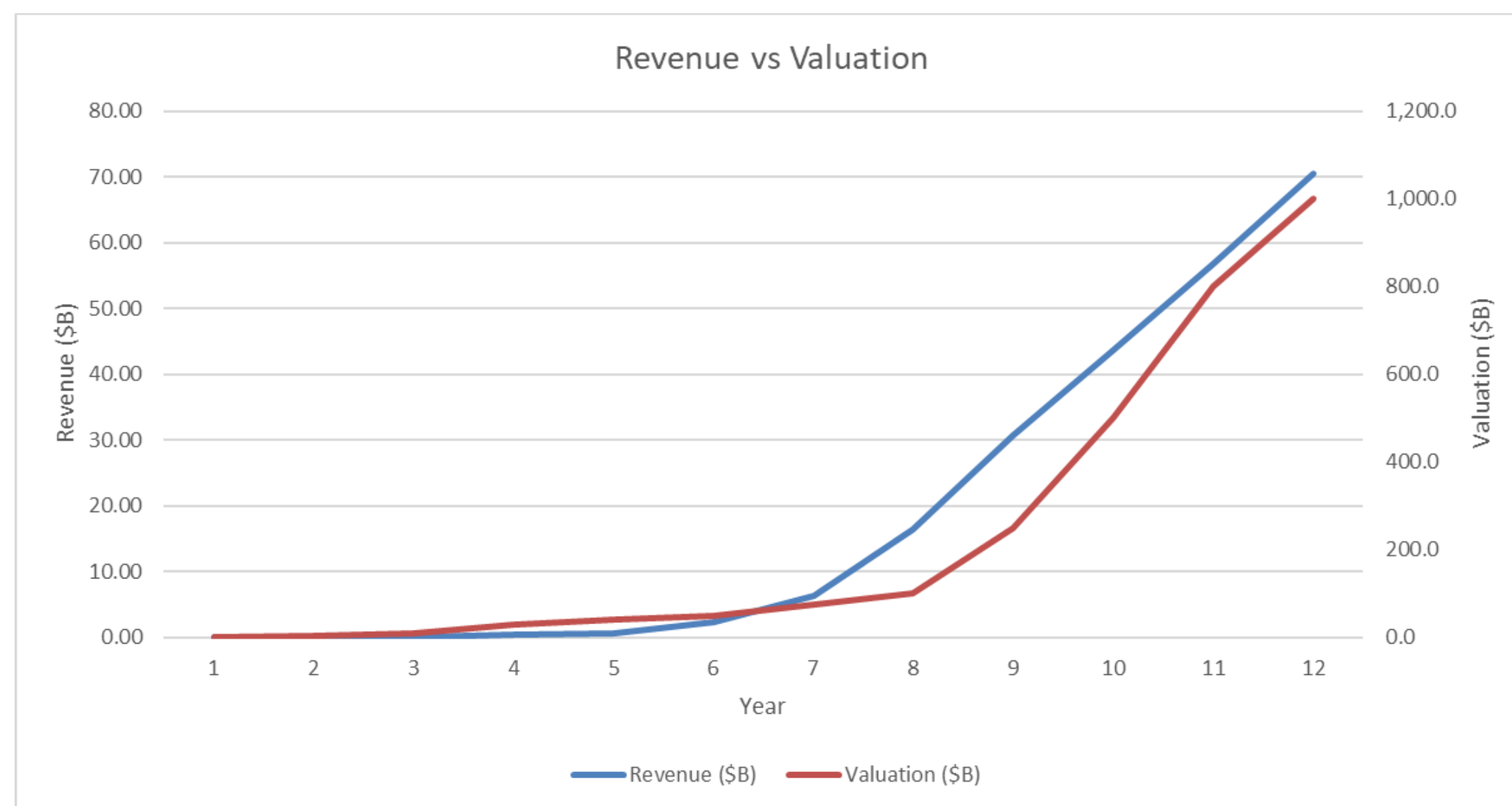
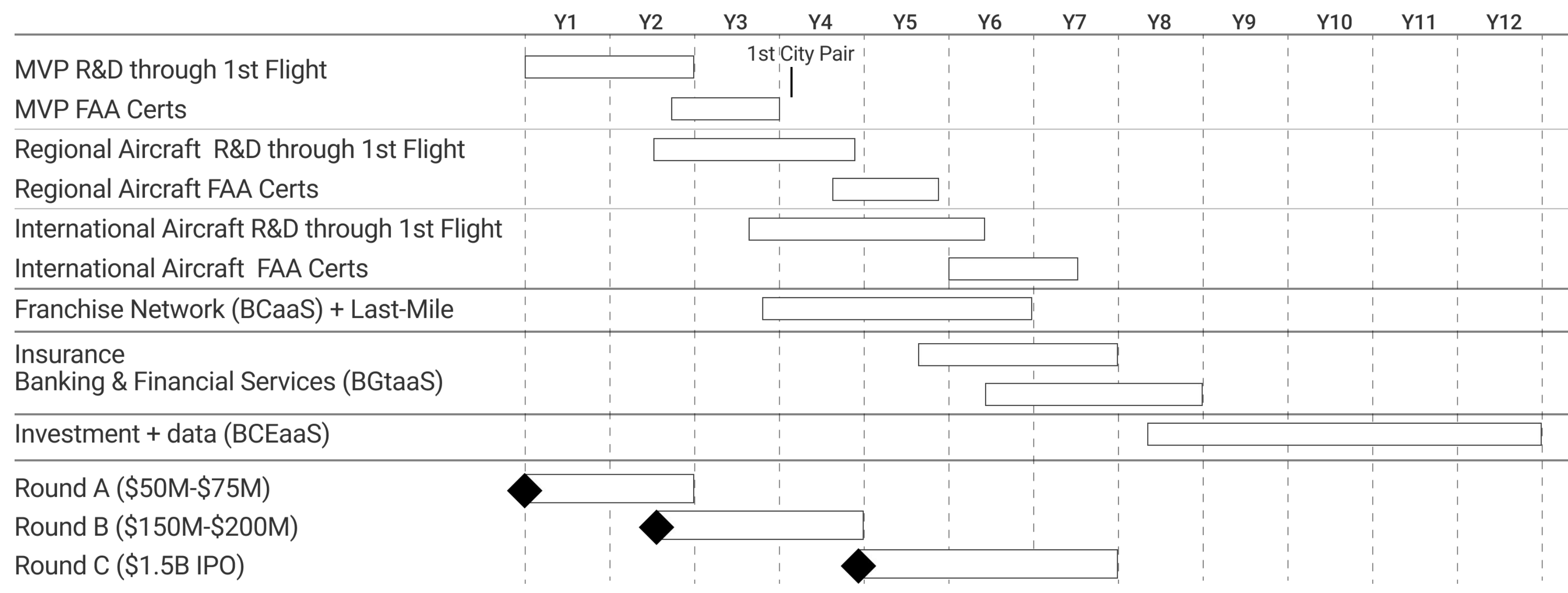
IP Portfolio good through 2038



Term Index

- BWS: Byblos World Services (Software)
- BOS: Byblos Omnimodal System (Container)
- ULD: Unit Load Device (aircraft containers)
- IDIQ: Indefinite Delivery, Indefinite Quantity
- Omnimodal: plugs into all modes of transport
- TAM: Total Available Market
- MVP: Minimum Viable Product
- Fintech: technology for financial services
- GDP: Gross Domestic Product
- CEIV Pharma: IATA certs Pharma Certs
- IATA: International Air Transport Association
- TEU: Twenty-foot Equivalent

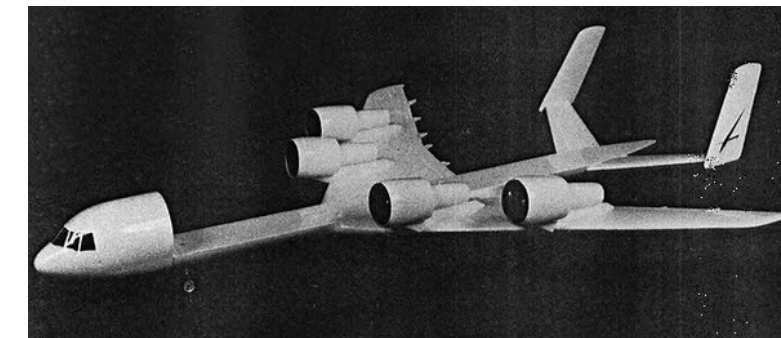
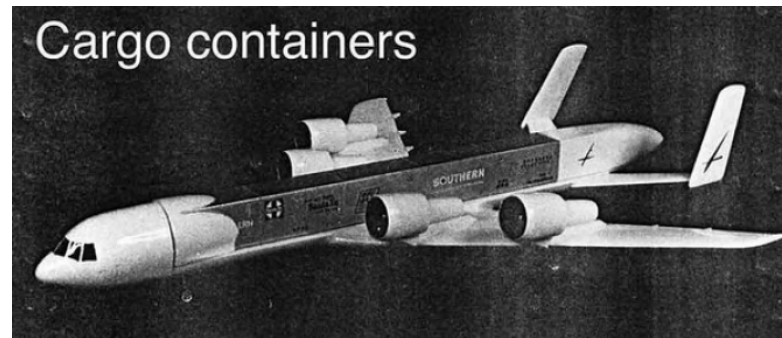
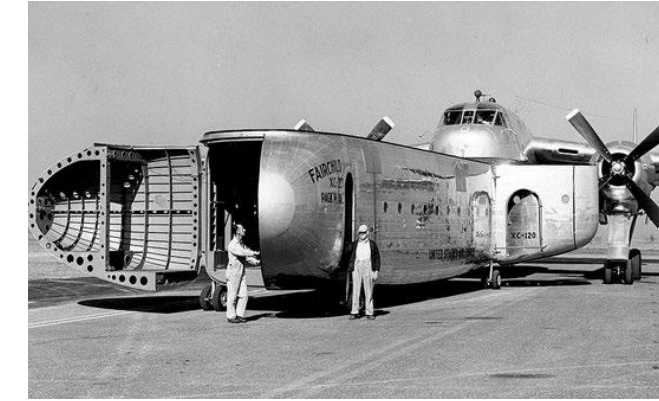
Go-to-Market Execution: From MVP to Global Rollout



- Months 24: MVP 1st Flight, franchise onboarding
- Months 36: FAA certification, first regional lanes live
- Months 48: Global network spans all continents, local IPO begin
- BCaaS = Byblos Container as a Service
- BCEaaS= Byblos Customs & Exchange as a Service

Detachable Fuselage & Spine Planes Exist

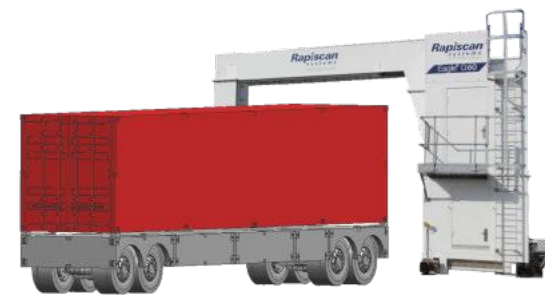
- Detachable fuselage concepts date to 1950s-80s



- Square fuselage aircraft (Skyvan, Shorts 360) already proven



- Container automation & materials now enable practical designs



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