

SDVOSB CERTIFIED

# DELOS AEROSPACE

EXPEDITIONARY STRATOSPHERIC ARCHITECTURE

Bypassing ground-based launch bottlenecks to deliver Tactically Responsive Space (TacRS) and perpetual High Altitude Platform Systems (HAPS).



# THE MARKET VULNERABILITY

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The U.S. Space Force mandates 24-hour orbital launch capabilities. Current static ground infrastructure cannot meet this due to critical structural and environmental bottlenecks.



## Geostrategic Targeting

Fixed launch pads (Vandenberg, Cape Canaveral) are highly vulnerable to adversary hypersonic and cyber-attacks. Ground assets are stationary targets.



## Weather Bottlenecks

Terrestrial launches are continuously delayed by tropospheric weather patterns, actively violating the DoD's strict 24-hour TacRS mandate.



## Assured PNT Crisis




Military reliance on orbital GPS creates a critical failure point. Ground commanders lack immediate, un-jammable localized navigation alternatives.



# THE GHOST FLEET ARCHITECTURE

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Delos neutralizes fixed-infrastructure vulnerabilities by deploying an untargetable, maritime-based **Expeditionary Launch System**.

-  **Maritime Clamshell Bay:** Envelopes are inflated inside a retractable drydock on a Dynamic Positioning (DP) barge, creating a zero-crosswind environment.
-  **Sovereign Mobility:** The launchpad can be towed to evade hurricanes or sail to optimal equatorial latitudes for maximum rotational velocity assist.
-  **Stratospheric Injection:** A HALE airship lifts the COTS rocket to 80,000 feet, completely bypassing localized weather and thick atmosphere.

600 × 400



# WEAPONIZED SNAPBACK

## CORE IP: SKY-DOCK KINEMATIC BUS

Dropping a 15,000+ lb rocket from a buoyant vessel traditionally creates a catastrophic upward acceleration ("snapback"). Delos is unique in weaponizing this physics reality as an evasive maneuver.

Upon horizontal release from the thermally-isolated Sky-Dock, the rapid buoyancy ascent instantly creates massive vertical clearance between the delicate HALE envelope and the payload.

The COTS rocket, in freefall in a near-vacuum, uses a cold-gas stabilization ring to pitch upward. Main engines ignite seconds later, safely isolated from the ascending platform.

600 x 400



# THE PAYLOAD MULTIPLIER EFFECT

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# +30%

**MASS TO LEO INCREASE**

$$F_d = \frac{1}{2}\rho v^2 c_d A$$

## Aerodynamic Drag Elimination

Launching from 80,000 feet eliminates passage through the thickest 95% of Earth's atmosphere. At this altitude, air density ( $\rho$ ) is near zero.

This aerodynamic bypass drastically reduces the fuel consumption required to fight drag during the most critical phase of flight.

By eliminating this penalty, the exact same COTS rocket can carry significantly more payload mass to Low Earth Orbit, drastically reducing the cost-per-kilogram.



# THE UNIVERSAL BUS: SWAP-C REALLOCATION

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Because the Sky-Dock is engineered to hold a multi-ton rocket, substituting kinetic payloads for ISR suites yields a massive weight-budget surplus, allowing for Regenerative Fuel Cell Systems (RFCS) generating 20kW+ continuous power.

## "↑" Airborne eLORAN (PNT)

Acting as a stratospheric pseudolite at 80k feet, Delos broadcasts navigation signals exponentially stronger than orbital GPS, neutralizing terrestrial jamming via the inverse-square law.

## Deep Sensing & EW

The RFCS powers Active Electronically Scanned Array (AESA) radars and Electronic Warfare suites 24/7. Loitering provides persistent over-the-horizon tracking of hypersonic threats.



# PHASED EXECUTION ROADMAP

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## PHASE 1

**MONTHS 12-24**

### Terrestrial Launch

SpaceWERX SBIR execution.  
Roosevelt Roads testing. First  
kinematic release and engine ignition  
sequence.

## PHASE 3

**MONTHS 36-60**

### Universal HAPS

Secondary DoD markets.  
Deployment of Assured PNT, ISR  
meshes, and FEMA disaster relief  
networks.

## PHASE 0

**MONTHS 1-12**

### IP Formalization

NC IDEA state funding. Sky-Dock  
CAD, CFD modeling, and Provisional  
Patent filings prior to federal  
engagement.

## PHASE 2

**MONTHS 24-36**

### The Ghost Fleet

Deployment of deep-water barges  
with retractable clamshell bays for  
full mobile, expeditionary maritime  
launches.



# FINANCIAL PROJECTIONS (ARR)

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TRANSITION TO HIGH-CADENCE SERVICE PROVIDER



Based on a conservative 10x Space-Tech multiple on \$300M ARR, Delos achieves a baseline **Year 5 valuation of \$3.0 Billion.**



# YEAR 5 REVENUE DISTRIBUTION

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 **50% - HAPS-as-a-Service (\$150M)**

Leasing persistent multi-domain platforms (eLORAN/ISR) to DoD.

 **35% - TacRS Launch (\$105M)**

12 to 18 rapid orbital launches annually.





 **15% - Dual-Use Commercial (\$45M)**

FEMA disaster relief & university research flights.



# THE INTELLECTUAL PROPERTY MOAT

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-  **"System & Method" Patents:** Ring-fencing the entire architectural sequence. Claims include clamshell inflation, thermally-isolated kinematic release, and the unique application of the automated thermal-clearance snapback maneuver.
-  **DFARS Compliance:** Rigorous DCAA-compliant accounting ensures foundational IP is developed exclusively at private expense, establishing the legal framework to assert **Limited Rights (Technical Data)** under DFARS prior to executing DoD contracts.
-  **SBIR Data Rights Shield:** By advancing through SpaceWERX, subsequent iterations fall under statutory SBIR Data Rights, granting Delos a legally mandated 20-year sole-source protection period.
-  **The Buy vs. Build Strategy:** We do not manufacture rockets. We execute MOUs with COTS providers, acting as an integration multiplier. We retain the Sky-Dock IP, making Delos an indispensable prime acquisition target.



# EXECUTIVE LEADERSHIP

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## Eugene C. Seybold

FOUNDER & CEO | E-9 MASTER CHIEF (RET.)

Led by a Service-Disabled Veteran with 26 years of military command, intelligence, and complex maritime logistics experience (Project Railhead, 5th Fleet operations).

Delos possesses the operational fluency required to navigate Space Force acquisitions and extreme logistical deployments.

### ★ SDVOSB Certified Entity

Unlocking sole-source federal commercialization contracts, bypassing standard competitive bidding bottlenecks.



# DELOS AEROSPACE

Strategic Buyout Roadmap: Targeting an 80/20 rollover acquisition by a Prime Contractor at Year 5 to monopolize the stratospheric responsive space sector.

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