



2022

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ECHO WORKSHOP

WARNING – Exports, sales, and offerings of the products and technologies discussed herein are subject to U.S. Government approval.



Our Vision

To enable humanity to begin
new civilizations in space

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Our Mission

We are building a platform in
space to improve life on earth.



The Future: Dream Chaser

A revolutionary advancement in
space transportation



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Partnership between Blue Origin and Sierra Space

Mixed Use Business Park in Space

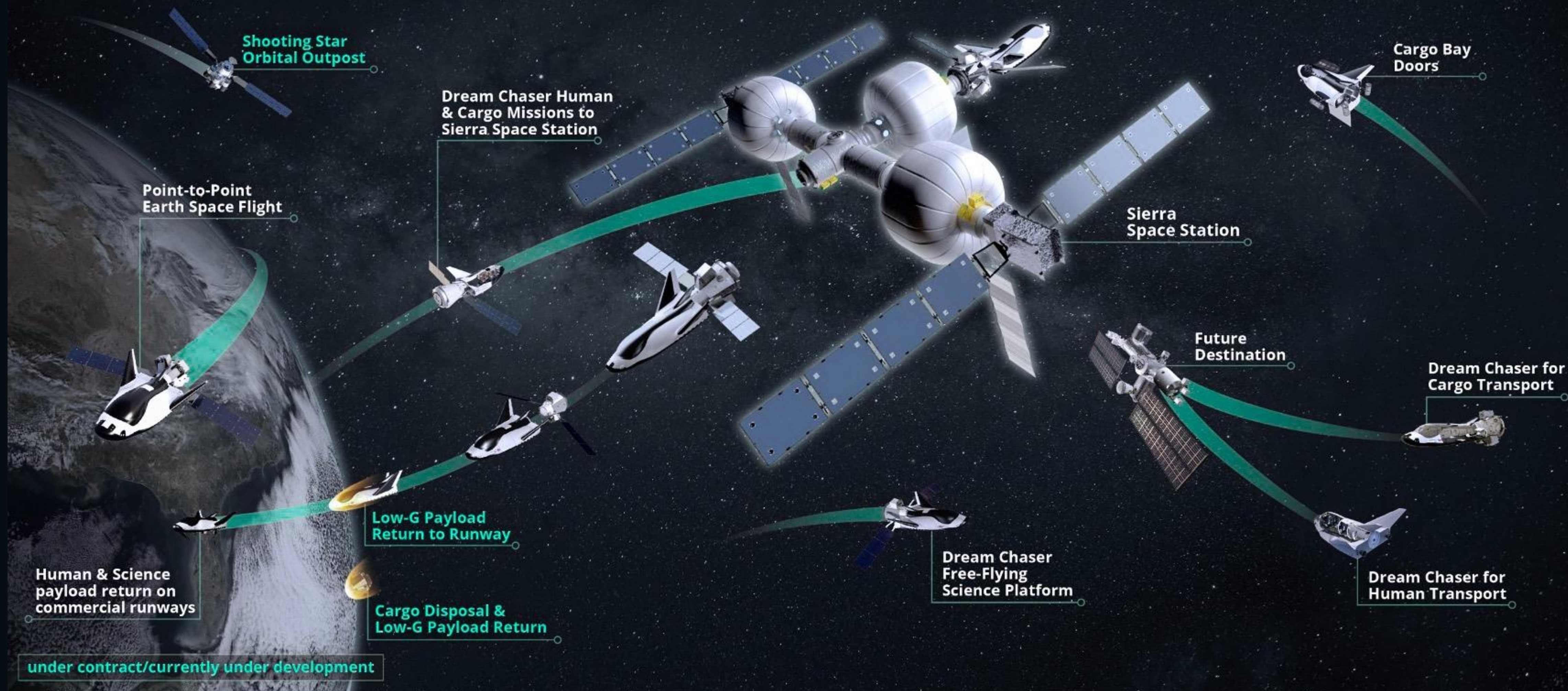
- Shared Long-term vision of developing and operating the infrastructure to enable humans to live and work in space in large numbers
- Shared infrastructure and systems lower the bar for diverse customers to operate in LEO
- Commercially developed, owned, and operated station in low Earth orbit
- Modular and Expandable Architecture to grow with market demand
- Global Collaborations proliferate commercial applications leading to a thriving space economy





Sierra Space Platforms

For future LEO commercialization



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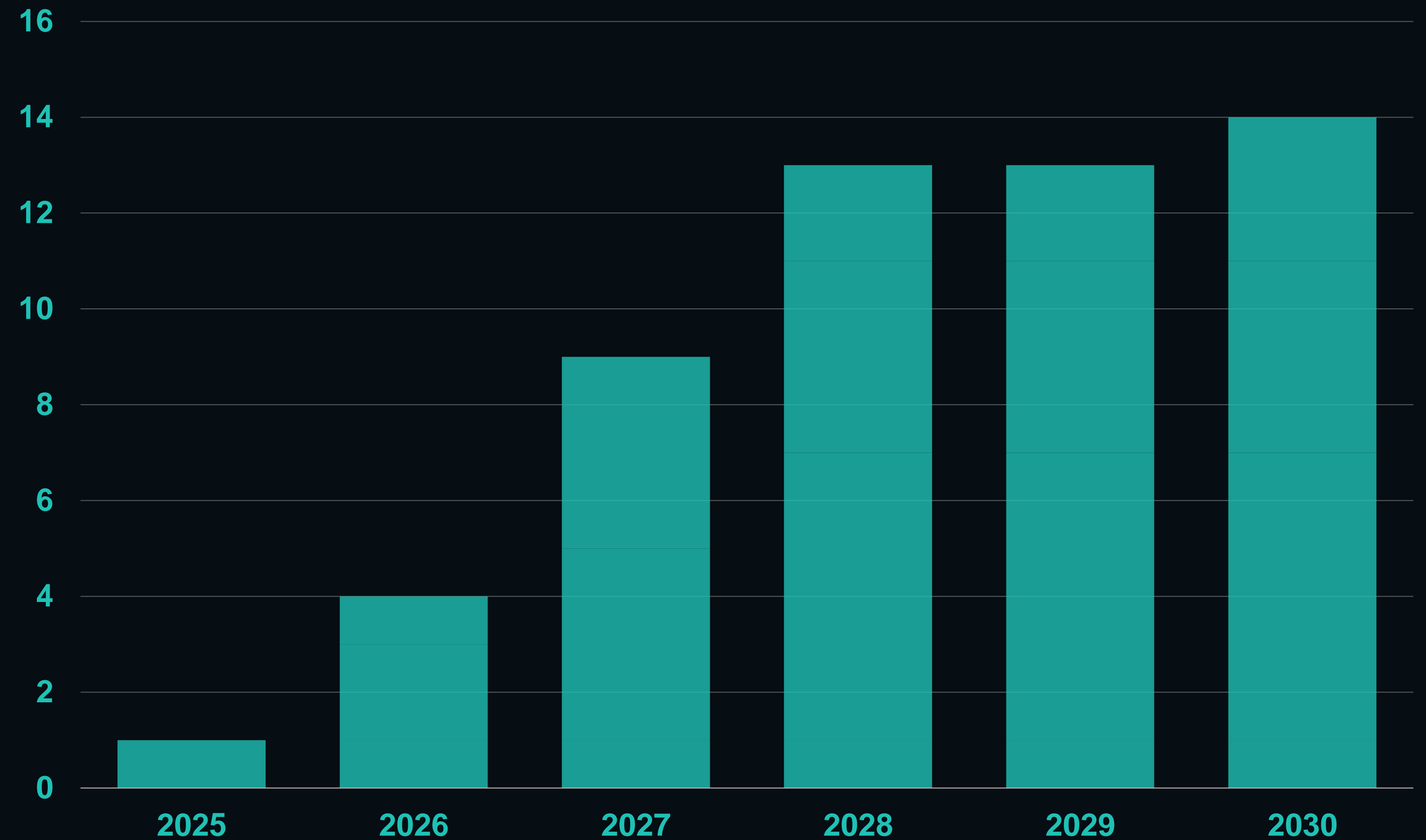


Mission Plan Per Year

Global

- Short Duration
- Crew – Long Duration
- Logistics and Payloads
- Free Flyer

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Dream Chaser

01

Dream Chaser continues assembly
in Phase I of production

02

First flight February 2023



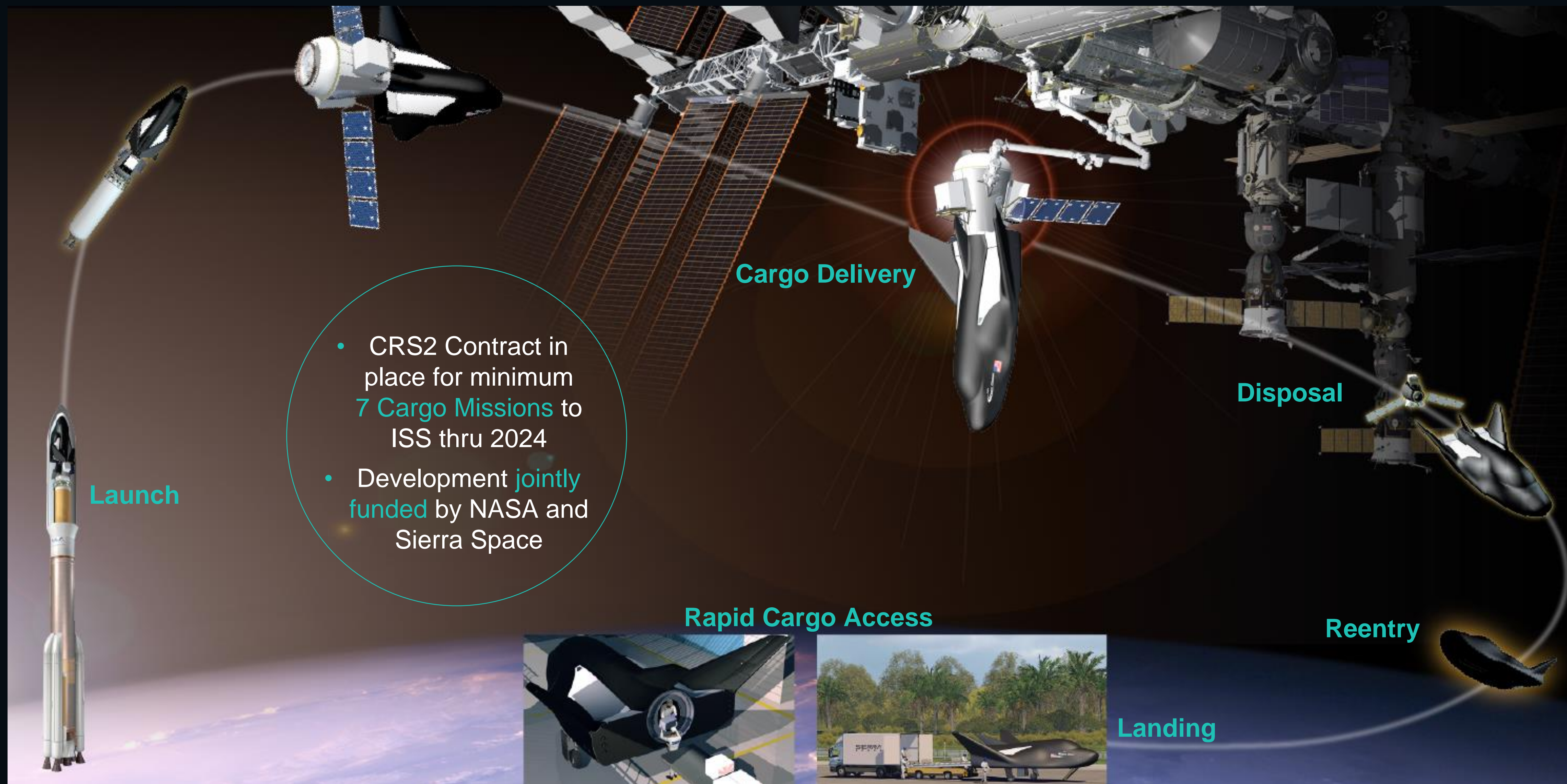
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Typical Mission

CONOPS – ISS Resupply Mission



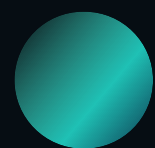
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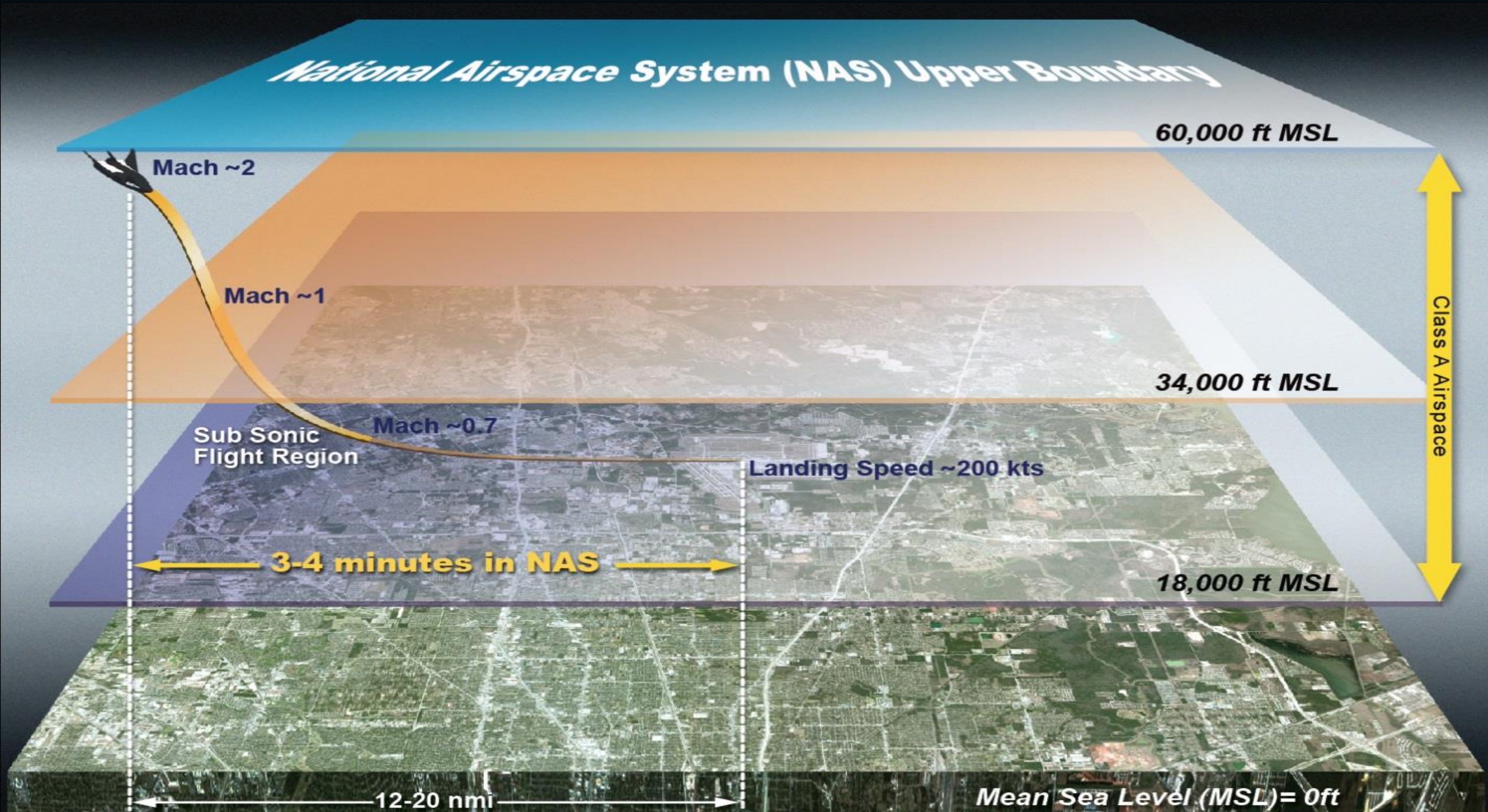


Dream Chaser Landing Capability

- **Low-toxicity fluid commodities to enable runway landings around the world**
 - Can land at any runway that supports a B737 or A320 aircraft
- **Basic runway landing**
 - Nominal 3,000 meter length
 - >1,000 nmi cross-range capability
- **Tri-landing gear configuration**
 - Two main landing gear with wheels
 - One nose landing gear with a nose skid
- **Licensing and approval must be in place before a landing**

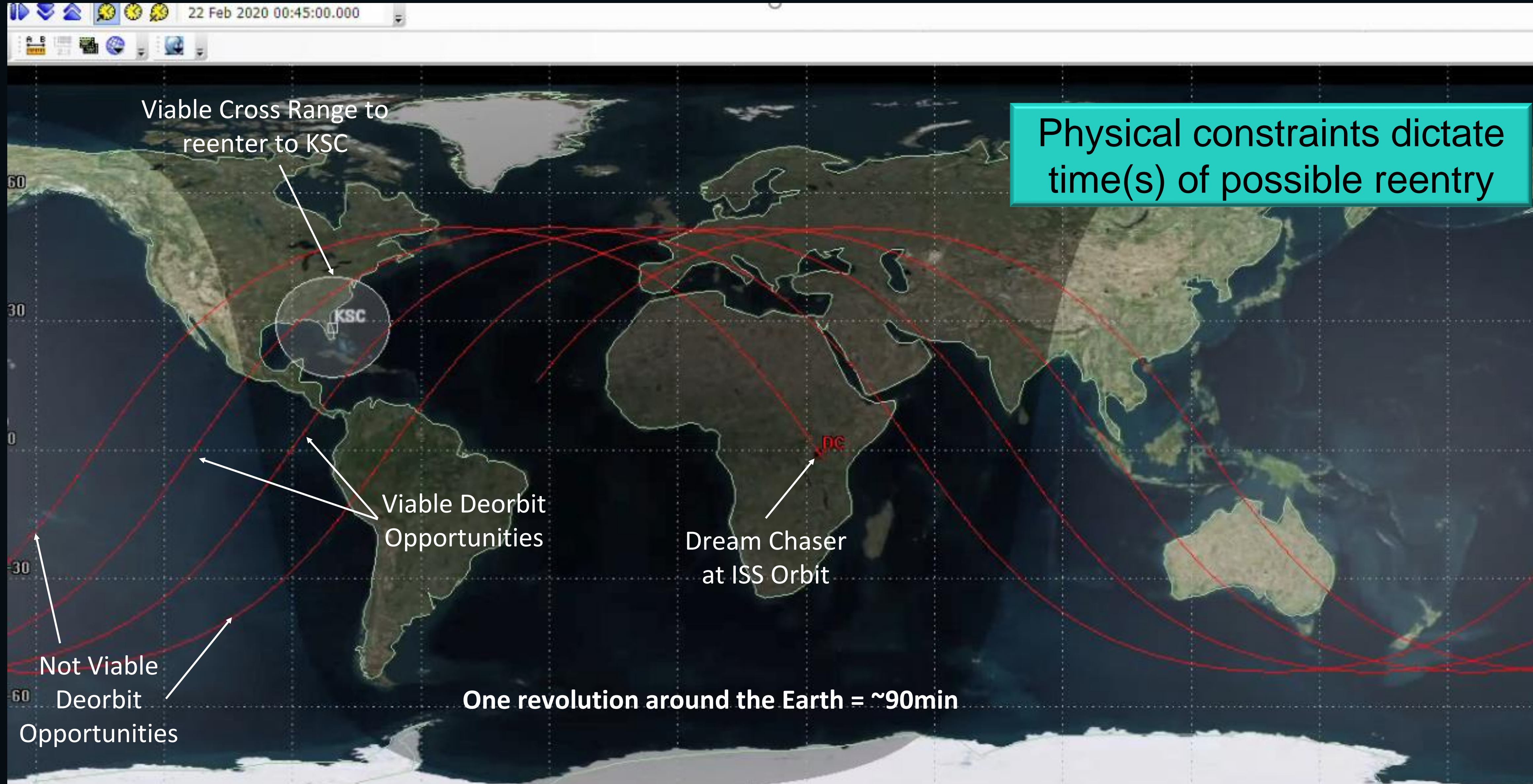



Dream Chaser Impact on Local Airspace



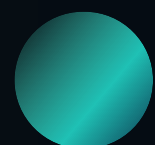


Orbital Mechanics of De-Orbit Opportunities





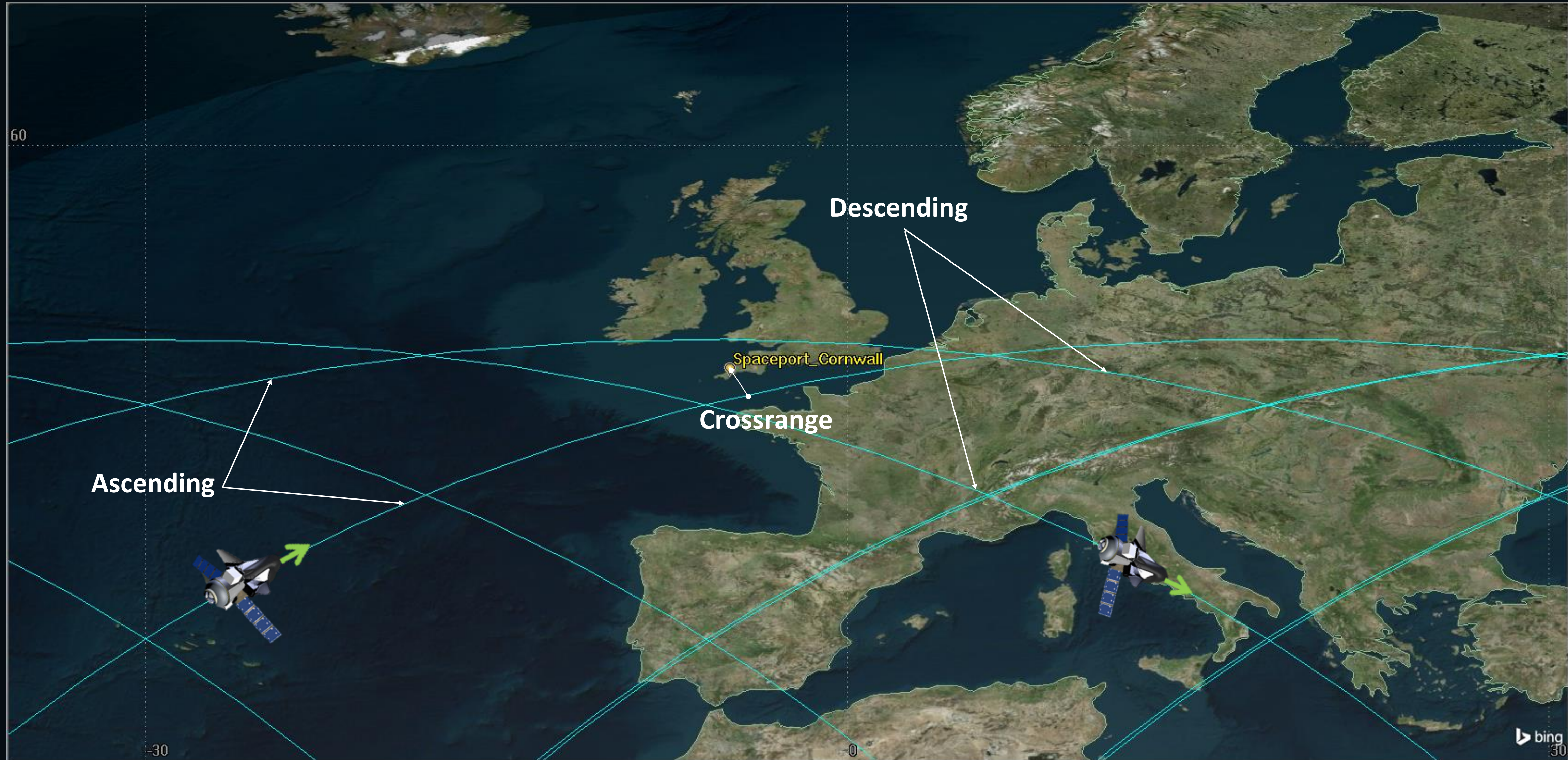
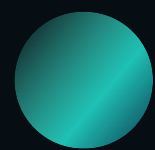
Spaceport Cornwall Case Study





Spaceport Cornwall from ISS Orbit

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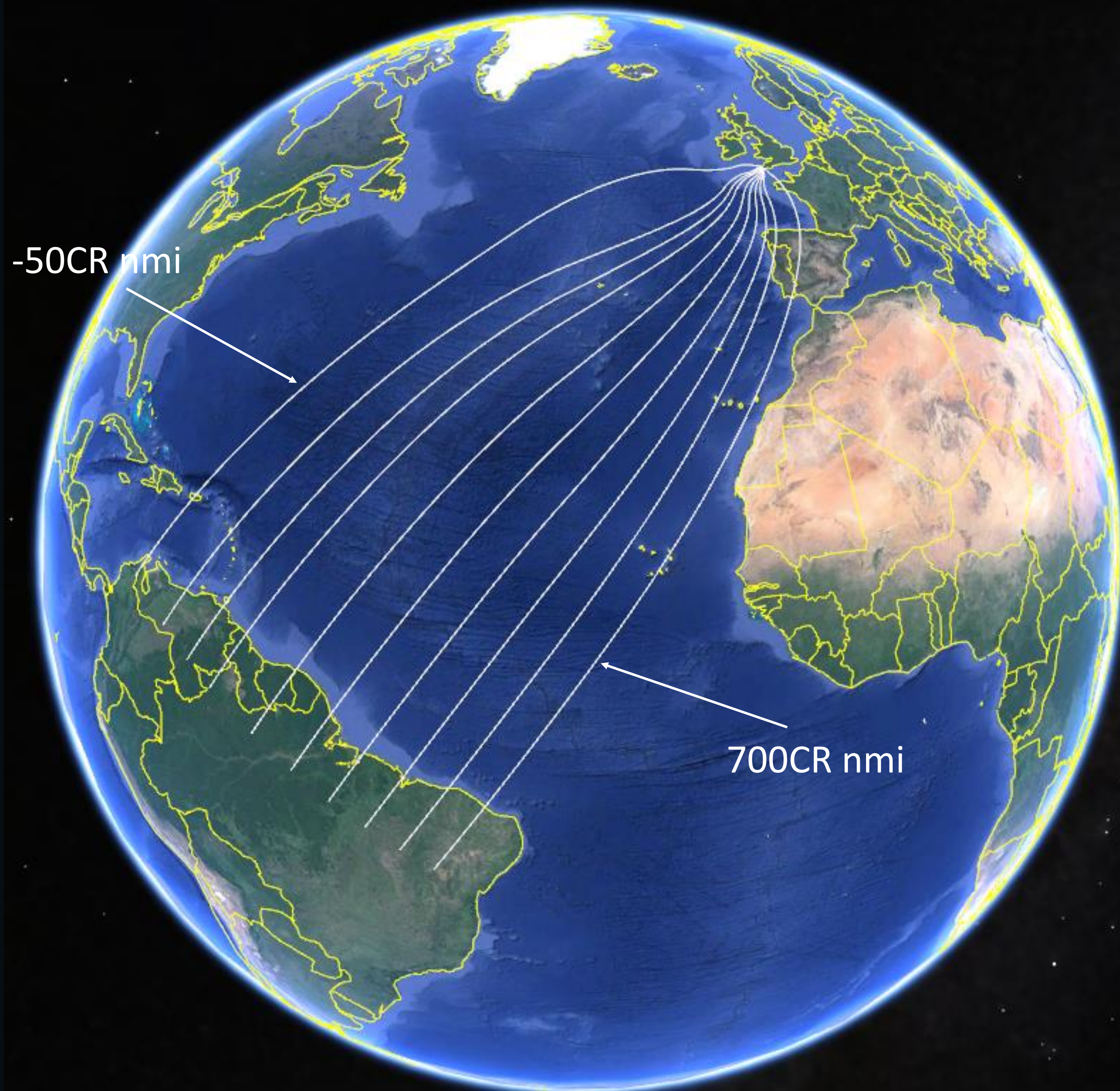
Notional Trajectories to Spaceport Cornwall

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-50CR nmi

700CR nmi



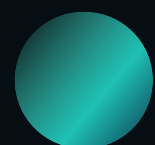




Current Regulatory Landscape (US Perspective)

- Dream Chaser is owned and operated by Sierra Space which is a US based company
 - As such, any reentry activities, both in the US and out, are subject to regulatory oversight by the US Federal Aviation Administration Office of Commercial Space (FAA - AST)
- Sierra Space is subject to other regulatory authority outside the FAA-AST such as:
 - Department of Commerce and State for Export Control
 - Federal Communications Commission (FCC) for spectrum transmission authorization
 - Other divisions of the FAA for airspace management
 - US Coast Guard for waterway management
 - US Federal Range for Range services and public safety

Expect local authorities to have additional regulations





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