Orbital Launch Revolution

America's Real Top Gun

STARFIGHTERS SPACE

CORPORATE PRESENTATION 2023

OVERVIEW

We own and operate a fleet of fully-reusable F-104 fighter jets and will be the only commercial company in the world that can fly at Mach 2 while launching payloads into space.

OVERVIEW

- **Located at NASA's Kennedy Space Center** in Florida alongside SpaceX, Blue Origin and United Launch Alliance
- **Fleet of seven F-104 fighterjets -** only commercial fleet in the world
- **F-104 acts as a reusable first-stage** air launching payloads into lower earth orbit
- **Hypersonic testing** as part of air launch partner development program
- **Market ready** with minimal R&D time given proven propulsion technology
- **Commercial fee of ~$15,000/kg at scale -** we aim to be one of the most cost effective launch providers for small payloads*
- **Current customers** include Lockheed Martin, GE, Innoveering, Meggitt, NASA and the U.S. Air Force Research Laboratory

*In process of acquiring launch license with FAA.

MARKET DATA

Space – the next frontier for investors: Starfighters Space is poised to service one of the largest growing economies.

Over the past several decades, space and satellite technology has become the invisible foundation of our digital world.

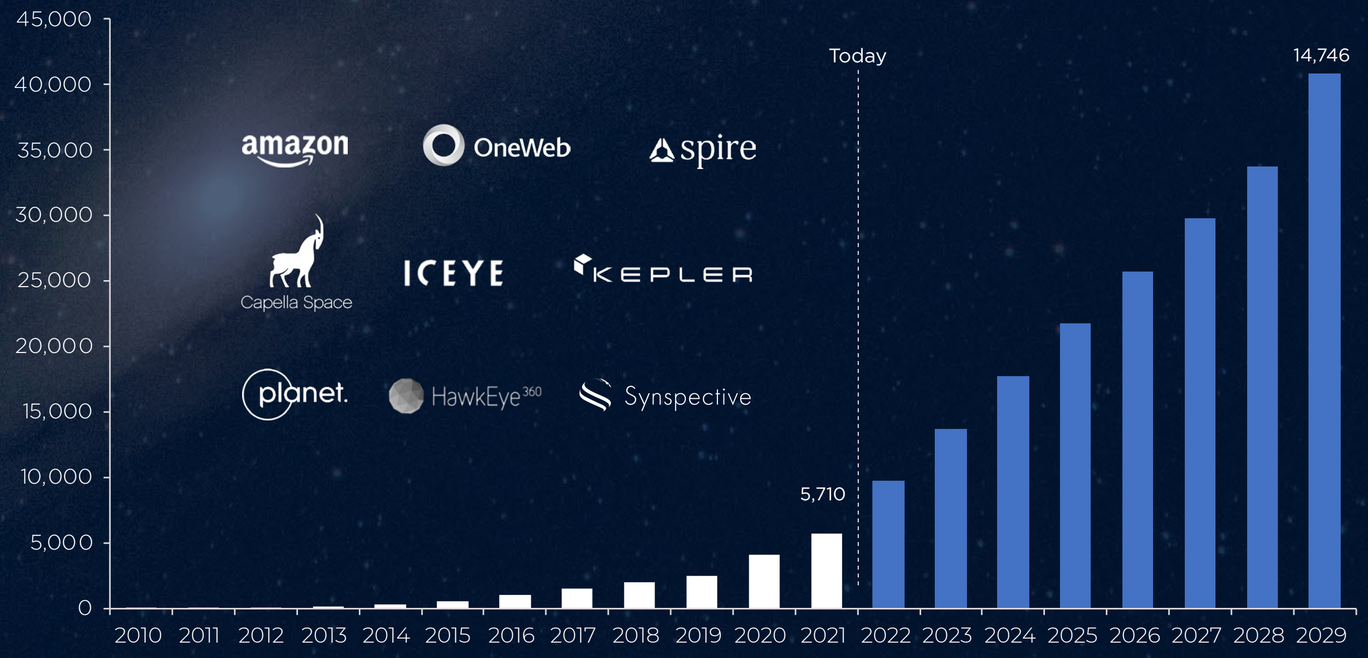
14x Increase From 2020 - 2029[1]

38,000+ satellites to be built and launched over the next decade.

5,710 cumulative satellites launched since 2010[1]

~90% of satellites to be launched over the next decade weigh 300kg or less[2]

$100B+ in launch revenue over the next decade[3]



1. Based on Euroconsult and Starfighters estimated 2. Euroconsult derived estimates based on 7,015 satellites with a known mass 3. Per May 2022 Citibank Space Report

PEER OVERVIEW

STARFIGHTERS SPACE

Organizations licensed for orbital launch vehicles.

Orbital

SPACEX

ULA®
United Launch Alliance

ROCKET LAB

ASTRA

BLUE ORIGIN

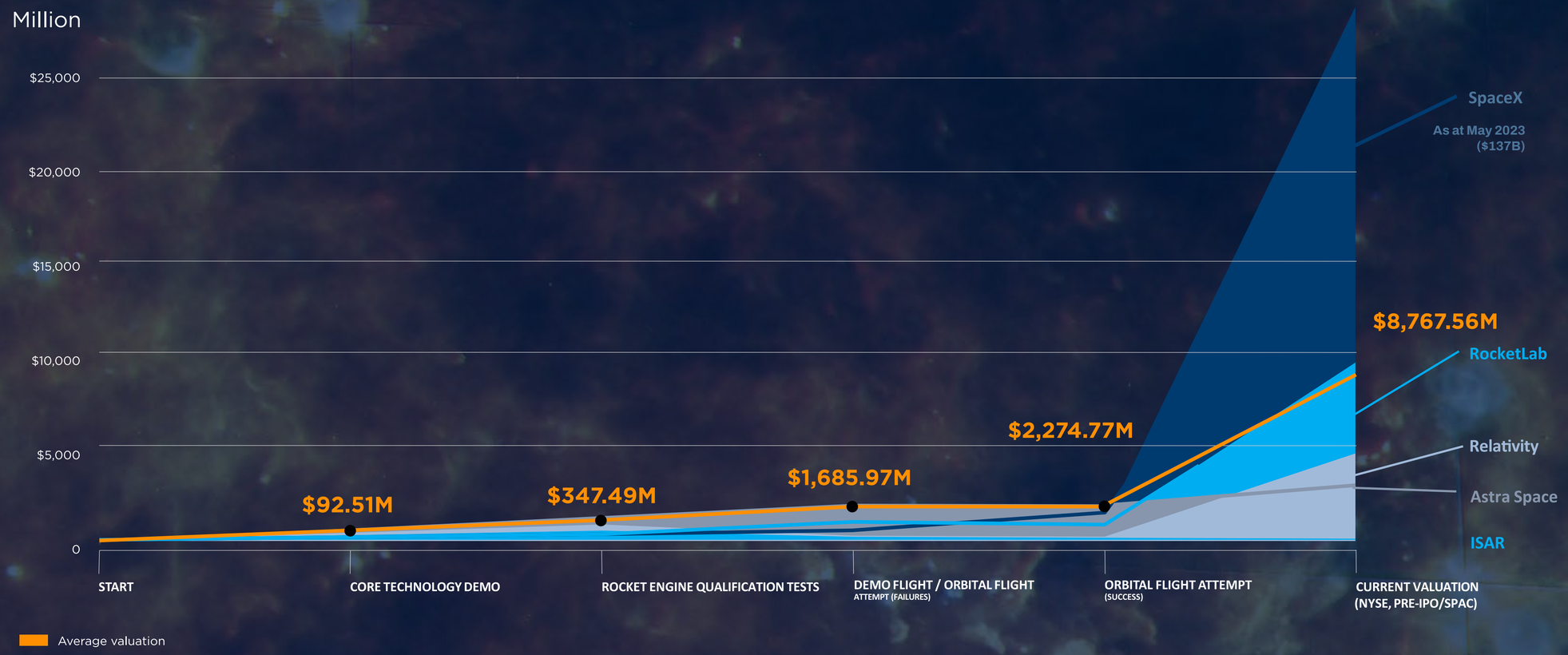
Virgin
GALACTIC

exos
Aerospace

COMPARABLES

Comparable companies pre-money valuations presents a pathway throughout their major milestones.

The average valuation of a start-up launch company increases from $347.5M to $1.6B once a launch license is obtained and test flights begin.



PEER OVERVIEW

STARFIGHTERS SPACE

SpaceX
$137B valuation[2]
(private company)

HIGHLIGHTS:

STRENGTHS
$60M to dedicated orbit
Reusable first stage
Proven technology

WEAKNESSES
Large, and getting larger
Infrastructure-heavy launch
Smaller satellites are secondary payloads

Firefly Aerospace
$1.5B valuation[1]

HIGHLIGHTS:

STRENGTHS
$15M for 1,300kg to orbit
Tier 1 VC-backed
NASA contracts

WEAKNESSES
Largely unproven technology
More expensive
Highly capital intensive

Relativity Space
$4.2B valuation[3]
(private company)

HIGHLIGHTS:

STRENGTHS
$10M+ for 1,250kg to orbit
Targeted less than 1000 part count
Goal is to be 3D printed

WEAKNESSES
Unproven technology
Limited experience
Larger and less flexibility
No rockets launched

Rocket Lab
$1.9B valuation[1]
Capital IQ February 28, 2023

HIGHLIGHTS:

STRENGTHS
$8M for 150kg to orbit
19 successful orbital launches
Only proven small launcher

WEAKNESSES
Very complex (5,000+ parts)
Significant Non-US employees
Non-flexible launch locations

1. Source: https://www.reuters.com/markets/us/rocket-maker-firefly-aerospace-looks-raise-up-300-mln-sources-2022-10-31/
2. Source: https://www.cnbc.com/2023/01/02/spacex-raising-750-million-at-137-billion-valuation-a16z-investing.html
3. Source: https://techcrunch.com/2021/06/08/relativity-space-launches-its-valuation-to-4-2b-with-650m-in-new-funding/

THE STARFIGHTERS SOLUTION

DILEMMA FOR SMALLSAT OPERATORS: Cost Vs Payload

RIDESHARE

Purchase of available or underutilized space on larger launch vehicles.

PROS

- Affordable $5k to $25k USD per kg for a ‘bus ride’ near your desired location
- Larger payloads

CONS

- Only large payloads are economical (smallest to date, on test flight, 0.5 tonnes)
- Extended lead times
- Lack of schedule control
- Results in sub-optimal orbits
- Large environmental impact.” instead of Massive
- Safety risk associated with liquid rocket fuel
- Hidden costs due to engineering and integration

DEDICATED LAUNCH

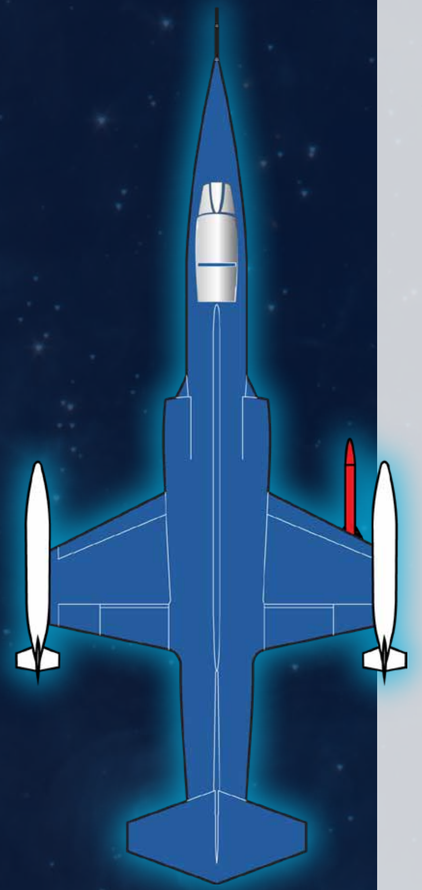
A dedicated launch vehicle to lift the payload.

PROS

- $24k per kg for a ‘taxi’ to your EXACT location
- Better control of schedule, launch date and orbital insertion than rideshare option
- Less environmental impact
- Reliable launch vehicle with history of safe operation

CONS

- Smaller payloads
- Minimum 250 days from order to launch



STARFIGHTERS SPACE

A dedicated launch vehicle to lift the payload.

PROS

- Affordable $15k (at scale) per kg for a ‘taxi’ to your EXACT target location
- Improved control of schedule, launch date, launch site and destination orbit
- Fastest turnaround from order to launch, with multiple launch vehicles available delivering much quicker cadence
- Minimal environmental impact
- Proven first-stage launch vehicle with thousands of missions over 60 years.

CONS

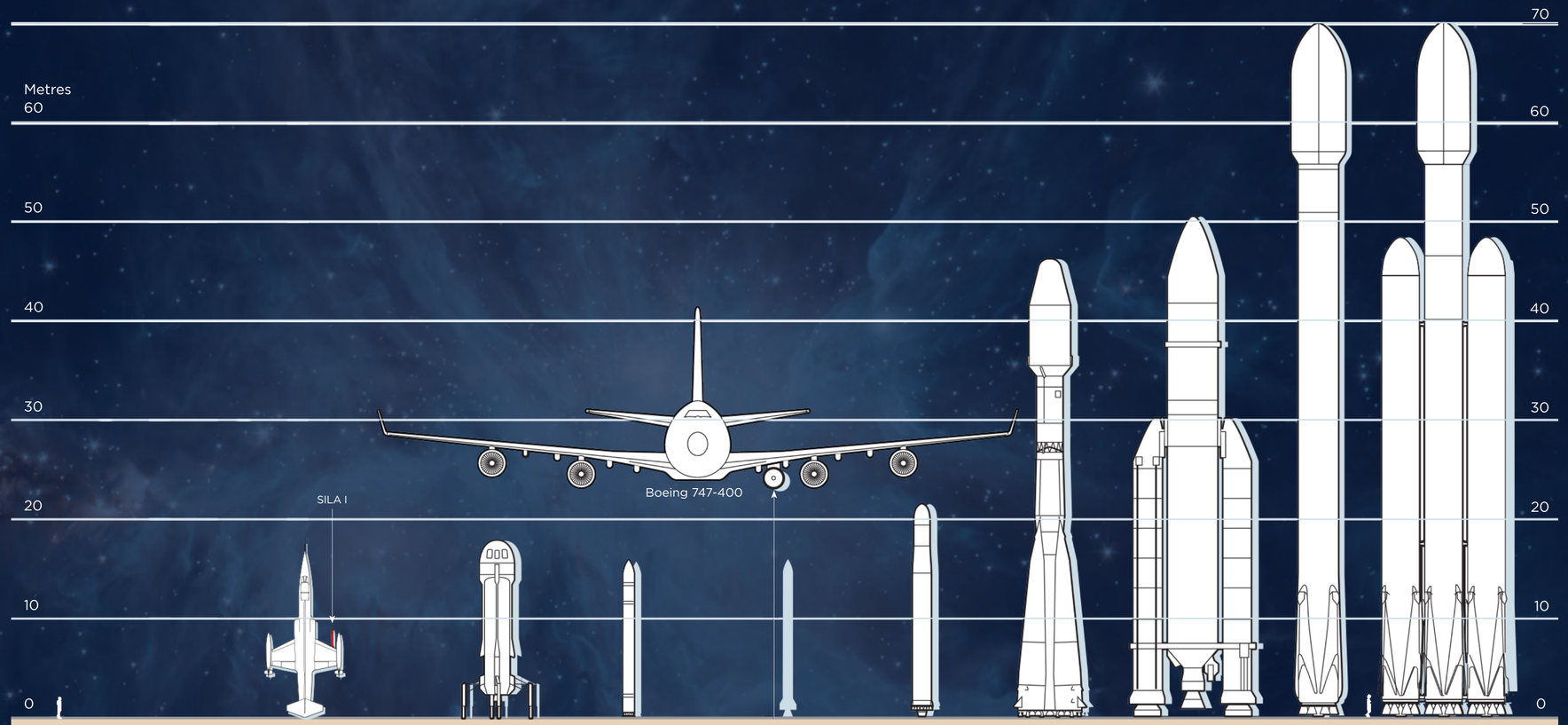
- Smaller payloads

THE STARFIGHTERS SOLUTION

Bigger is not always better.
Scale impacts service price.

Rocket - Cost/KG[1]

Company	Vehicle	Cost / kg (US$)
Rocket Lab	Electron	$24,000
Virgin Galactic	LauncherOne	$24,000
Firefly	Alpha	$15,000
Russia	Soyuz-2.1a	$19,900
ArianeSpace*	Ariane 5	$10,200
SpaceX*	Falcon 9	$16,093
SpaceX*	Falcon Heavy	$18,500
Starfighters	SILA II (initial)	$22,000
Starfighters	SILA II (scale)	$15,000



Carrier rocket Organisation	Starfighter F-104 Starfighters Space	New Shepard Blue Origin	Electron Rocket Lab	LauncherOne Virgin Galactic	Alpha Firefly	Soyuz-2.1a Russia	Ariane 5 ArianeSpace	Falcon 9 SpaceX	Falcon Heavy SpaceX
Height, metres	17.0	18.0*	16.0	16.0*	21.6*	46.1	50.5	70.0	70.0
Payload to LEO†, kg	100kg[1]	n/a	150	500	200	7,800	20,000	22,800	54,400

1. per SILA I (up to 4) *Estimated †Low-Earth orbit

* Subsidized
1. All cost calculations are estimated from publicly available online data such as company websites and independent reporting compiled by Starfighters Space
https://aerospace.csis.org/data/space-launch-to-low-earth-orbit-how-much-does-it-cost/
https://www.newspace.im/assets/fig/Newspace_launchers_costsperkgperf_2022-01-01.pdf
https://forum.nasaspaceflight.com/index.php?topic=55606.msg2331202#msg2331202

LAUNCH VEHICLE STAGE ANALYSIS

SpaceX

Total Fuel Costs
~ $200,000

Payload
(non-reusable)

Second Stage
(non-reusable)

First Stage
(reusable)

Starfighters Space

Total Fuel Costs
~ $20,000

First Stage
(reusable)

Payload
(non-reusable)

Second Stage
(non-reusable)

Fuel costs are 10x cheaper and 2x lighter for a jet vs. rocket propulsion.

HYPERSONIC DEVELOPMENT

Hypersonic rockets and projectiles travel at between 5 and 25 times the speed of sound – about 1 to 5 miles per second.

Starfighters is partnered with the **Air Force Research Laboratory** to develop and test hypersonic rockets critical to US national defense

The Pentagon has publicly stated investment begins at $4.7 billion on hypersonic research for 2023[1]

Both Russia and China have hypersonic programs fielding operational hypersonic vehicles[1]

The Pentagon, National Science Foundation, and the US Congress are pursuing the development of hypersonic systems.

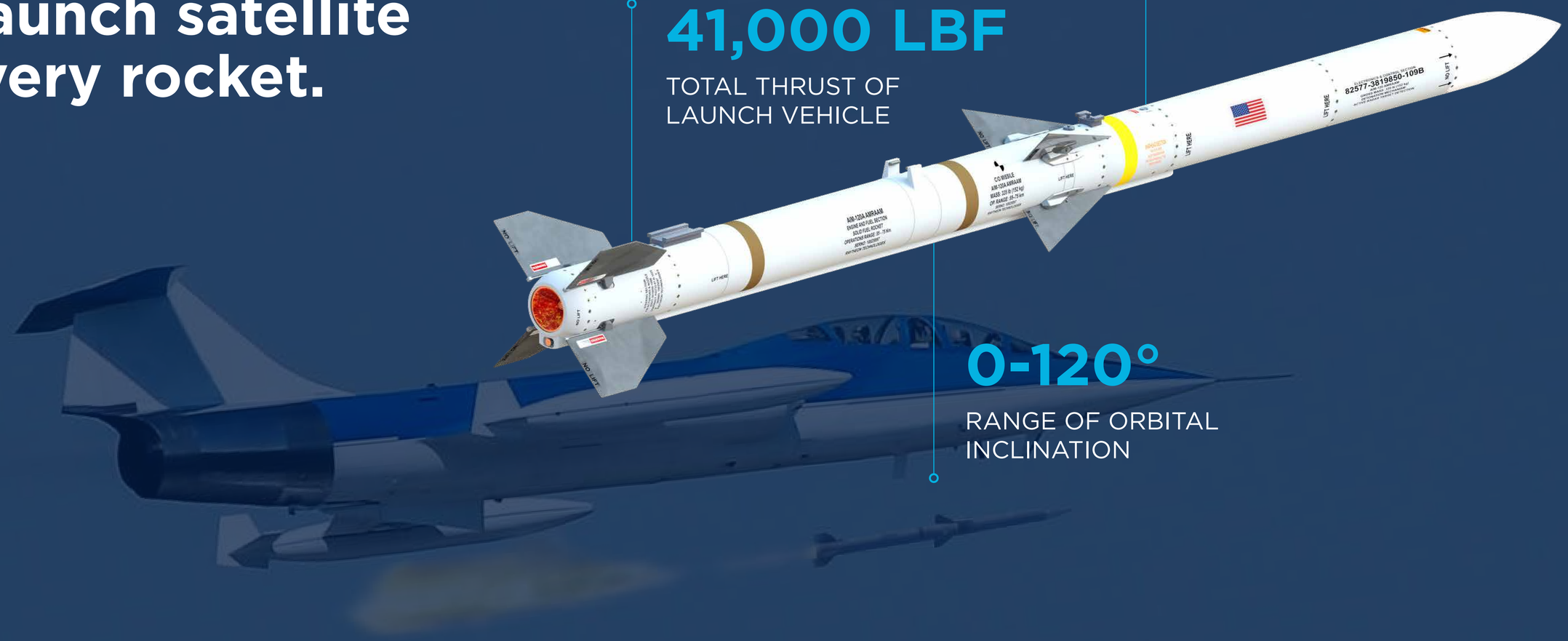
1. Congressional Research Service Hypersonic Weapons Report dated July 20, 2022

MEET SILA I

Starfighters' first proprietary design air-launch satellite delivery rocket.

41,000 LBF
TOTAL THRUST OF LAUNCH VEHICLE

SMALL PAYLOAD
(CAN INCLUDE MULTIPLE SMALL SATELLITES)



0-120°
RANGE OF ORBITAL INCLINATION

MEET SILA II

Starfighters' next generation rocket and a perfect multiple payload launcher.

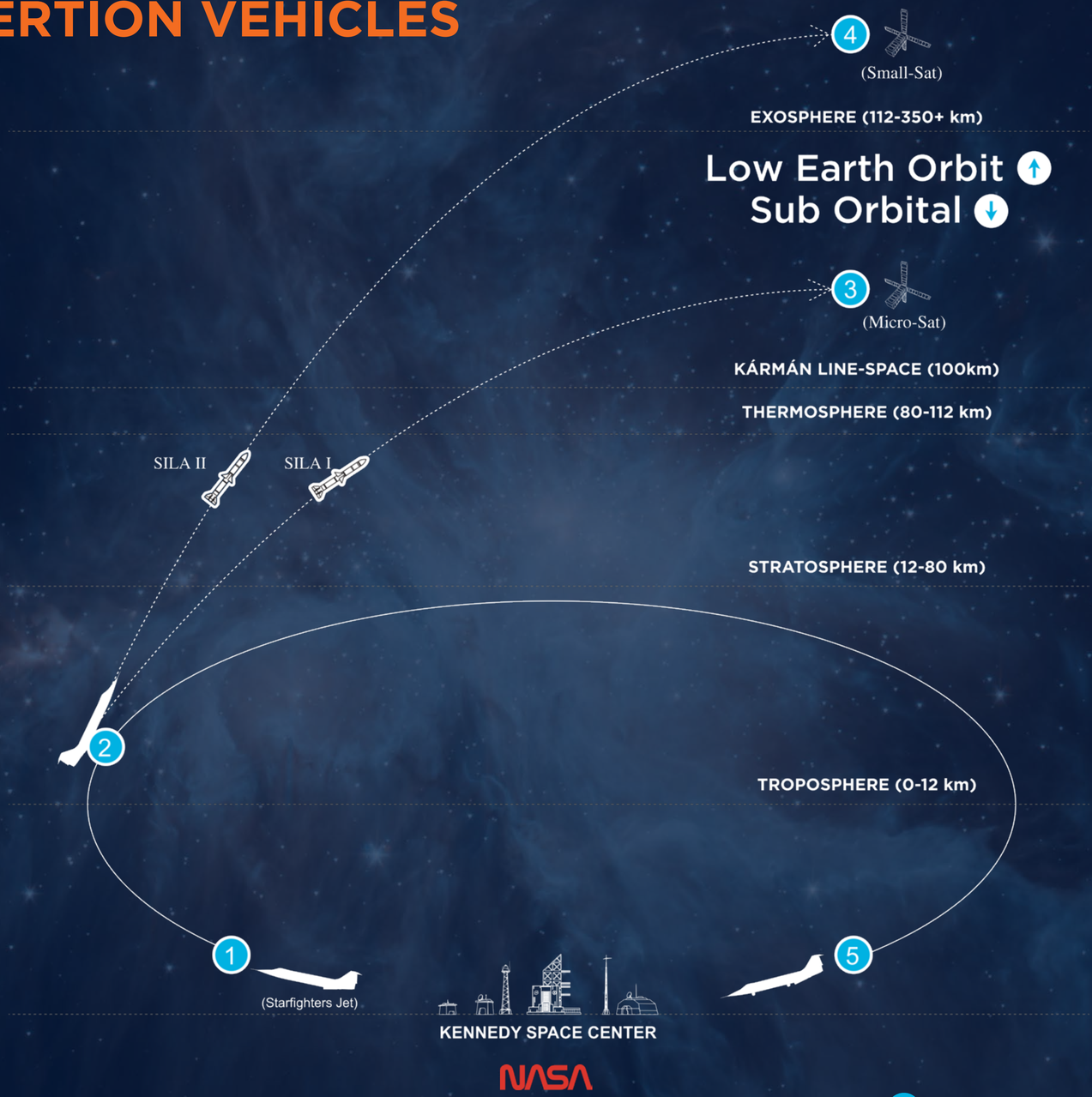
0-120°
RANGE OF ORBITAL INCLINATION

SMALL PAYLOAD
TO LOW EARTH ORBIT (CAN INCLUDE MULTIPLE SMALL SATELLITES)

111,000 LBF
TOTAL THRUST OF LAUNCH VEHICLE

SILA I & II ORBITAL INSERTION VEHICLES

1. Starfighters F-104 launches and climbs at MACH 2
2. 45,000′ launch of SILA I (current) or SILA II (future)
3. SILA I boosts to suborbital altitude & deploys micro-sat(s)
4. SILA II boosts to low earth orbit & deploys small-sat(s)
5. Starfighters F-104 lands, refuels, reloads for addt'l missions



GO-TO-MARKET

STARFIGHTERS SPACE

- **Proven Technology**
- **Proven Market**
- **Proven Launch Vehicle**
- **Small Critical Payloads**
- **Incremental Growth**

Starfighters Space Strategy

- **Reusable System**
- **Government Contract, Grants, Awards, and Sole Source**
- **Federal Resources**
- **Development Opportunity**
- **Risk Mitigation**

Multiple revenue streams exist in addition to satellite launches:

- Captive carry of payloads and test articles
- Microgravity experiments
- Supersonic/hypersonic RDT&E
- Spaceflight hardware testing/qualification
- Suborbital spaceflight simulation
- Human factors & flight physiology
- Jet warbird training & familiarization
- Avionics testing/qualification
- Flight suit testing/qualification
- Sponsored video production
- Adversary air training support

GO-TO-MARKET

COMPETITIVELY PRICED, UNIQUE CAPABILITIES

Other companies offer launch, but none offer the capabilities and price of Starfighters Space

ACQUIRE LAUNCH LICENCES

NASA and DoD range partnerships gain airspace priority over other FAA users.

PRIMARY REVENUE

Current growth in the small-sat market based on backlog of ~2000 payloads waiting for launch.

SECONDARY REVENUE

Hypersonic rocket R&D development platform for national defense and other users.

US GOVERNMENT PARTNER OF CHOICE

Acquire grants, awards, and contracts through NSA, NASA, FAA, NRO, DARPA, Air Force Research Laboratory, and others.

MANAGEMENT TEAM

Rick ‘Boss’ Svetkoff

Rick, a former US Navy pilot, is the President and CEO of Starfighters. After leaving the Navy, he served as a Captain at Continental Airlines (now United), where he flew the B727, MD80, B757, and B767. Shortly after starting with Continental, Rick purchased an F-104 and began flying at air shows. He then acquired a fleet of the jets for a three-aircraft Starfighters Demonstration team. Ultimately, he envisioned this F-104 fleet as the core asset of a small, fast reacting aerospace company for a wide range of missions.

Piercarlo ‘Capone’ Ciacchi

Piero is the Director of Flight Operations at Starfighters. He is a former Italian Air Force pilot who flew multiple fighter jet types and served as the Training Supervisor and Aerobatic Instructor at the “Frecce Tricolori” Italian National Aerobatic Team, where he flew all eight positions of the 10 aircraft formation for 7+ years. Piero has a wealth of experience in creating and managing flight and R&D projects, including custom modifications of aeronautical parts, experimental hardware design, integration, and videography.

MEET THE TEAM

Rick Svetkoff

CO-FOUNDER & CEO

Tim Franta

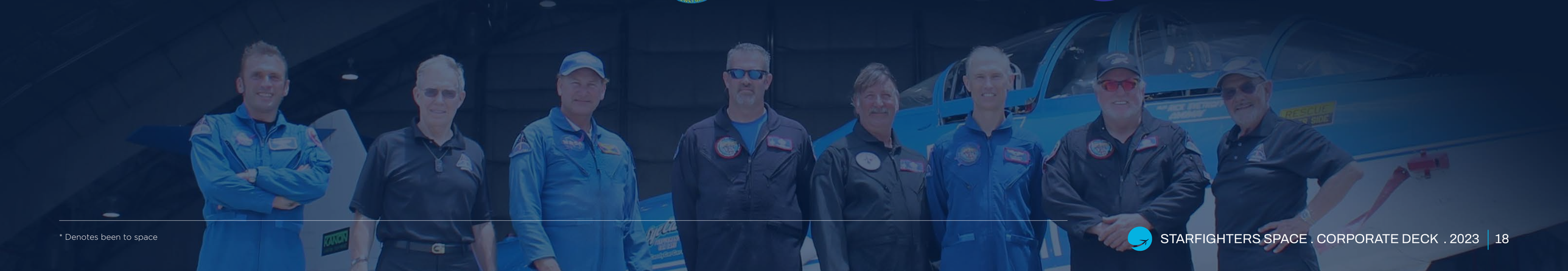
DIRECTOR OF DEVELOPMENT

Piercarlo Ciacchi

DIRECTOR OF FLIGHT OPERATIONS

Olga Balanovskaya

CFO



* Denotes been to space

PARTNERS/CLIENTS/RELATIONSHIPS

STARFIGHTERS SPACE

LOCKHEED MARTIN

innoveering
inspire | innovate | deliver

MEGGITT

NASA

AIR FORCE RESEARCH LABORATORY

CAPITAL REQUIREMENTS & MILESTONES

STARFIGHTERS SPACE

2022

BRIDGE

- Proof of Concept (completed)
- FAA and AST Launch License Applications
- Procure SILA rocket primary contractor/integrator
- Captive carry/drop tests

2023

IPO

- Facility expansion and upgrades
- Suborbital launch vehicle
- Hypersonic R&D
- Various payloads for civil, defense, commercial, and academia

2024

SECONDARY

- First commercial rocket launch
- Hypersonic testing
- Optimize and procure mass manufacture for SILA series

2025

TERTIARY

- Routine launch capability
- Hypersonic deployment

Credit: Consiglio Nazionale delle Ricerche, Italy
Photo by L. Paciucci

Activities within the AVIOLANCIO Project of the National Research Council funded by the Italian Government

LEGAL

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