

Disclaimer

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This presentation includes certain forward-looking non-GAAP financial measures, EBITDA and EBITDA margin, with respect to Virgin Galactic's expected future performance. Virgin Galactic defines EBITDA as net income (loss), adjusted for interest expense, interest income, income taxes, depreciation and amortization. Virgin Galactic defines EBITDA divided by revenue. These non-GAAP measures are an addition, and not a substitute for or superior to measures of financial performance prepared in accordance with GAAP and should not be considered as an alternative to net income, operating income or any other performance measures derived in accordance with GAAP. Not all of the information necessary for a quantitative reconciliation of these forward-looking non-GAAP financial measures to the most directly comparable GAAP financial measures is available without unreasonable efforts at this time. Specifically, Virgin Galactic does not provide such quantitative reconciliation due to the inherent difficulty in forecasting and quantifying certain amounts that are necessary for such reconciliations, including net income (loss), accelerated depreciation and variations in effective tax rate.

Virgin Galactic believes that these forward-looking non-GAAP measures of financial results provide useful supplemental information to investors about Virgin Galactic. Virgin Galactic's management uses these forward looking non-GAAP measures to evaluate Virgin Galactic's projected financial and operating performance. However, there are a number of limitations related to the use of these non-GAAP measures and their nearest GAAP equivalents. For example, other companies may calculate non-GAAP measures differently, or may use other measures to calculate their financial performance, and therefore Virgin Galactic's non-GAAP measures may not be directly comparable to similarly titled measures of other companies.



December 13, 2018













May 10, 2019

Move-in initiated for world's first purpose-built commercial spaceport, Spaceport America









VSS Unity

The world's first private, crewed spaceship designed for commercial service to take humans to space





VMS Eve

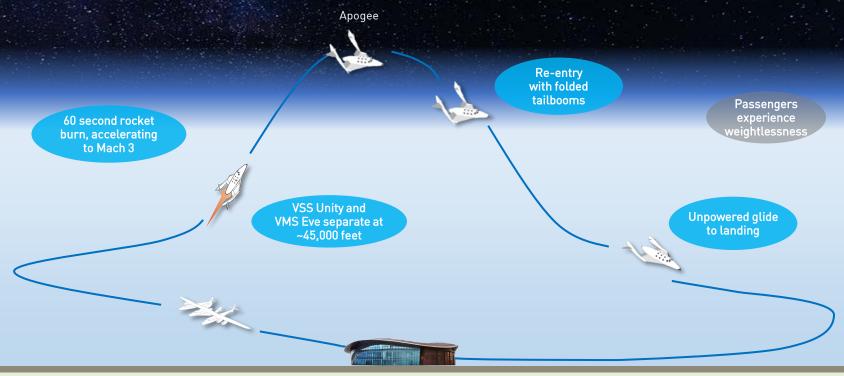
The world's largest all-composite aircraft in service N348MS N348MS







Virgin Galactic's Once-in-a-Lifetime Spaceflight



SPACEPORT AMERICA, NEW MEXICO



Virgin Galactic's History



2004 SpaceShipOne wins the X Prize



2005 Announcement of VG's manufacturing entity



2010 George Whitesides joins VG from NASA



2018 Virgin Galactic's first space flight



2020 Expected launch of commercial human spaceflight operations



2004 Virgin Galactic founded



2008-2009 WK2 and SS2 unveiled



2016 Commercial operator license awarded by FAA



2019 Started operational move to Spaceport America



Virgin Galactic Today







The OEM

The Spaceline

- WhiteKnightTwo ("WK2") and SpaceShipTwo ("SS2") operator
- Designs and manages the customer travel experience
- Headquarters: Spaceport America, New Mexico
- Employees: 190+⁽¹⁾

- Vertically integrated, end-to-end aerospace manufacturer
- Design, manufacturing and production capabilities
- Testing, validation and post-delivery support
- Headquarters: Mojave Air and Space Port, California
- Employees: 600+⁽¹⁾



World-Class Executive Team

George Whitesides CEO, Virgin Galactic



20 Years of Experience



Jon Campagna CFO



23 Years of Experience





Mike Moses President, Virgin Galactic



24 Years of Experience



Enrico Palermo President, TSC



17 Years of Experience



Stephen Attenborough Commercial Director



30 Years of Experience





Industry-Leading Flight Team

Dave Mackay Chief Pilot







Kelly Latimer Pilot, SS2 & WK2



Beth Moses Chief Astronaut Instructor



42 Years of Experience



39 Years of Experience



34 Years of Experience



30 Years of Experience



30 Years of Experience



37 Years of Experience



31 Years of Experience





































Indicates astronaut who has been to space



Limited Competition and Strong Barriers to Entry

| | Years in | Customer | Flight | Takeoff / | Flight | Operational Milestones | | |
|-------------|----------|--|---|---|----------|------------------------|--------------|------------------|
| | Business | Experience | Experience | Landing | Crew | FAA License? | Flight Test? | Flown Passenger? |
| Vigan | 15 years | Driven by Virgin DNA 3-day pre-flight training End-to-end, including pre-and post-flight | Up to 90- minute journey 3-4 minutes floating in space | Horizontal takeoff Runway landing | 2 pilots | ✓ | ✓ | ✓ |
| BLUE ORIGIN | 19 years | 1-day "essentials" training | 11-minute journey Comparable free-floating in space | Vertical launch Parachute capsule landing | No pilot | ✓ | ✓ | _ |



Virgin Galactic's Near-Term Growth Strategy: Phase I

Planned Fleet Expansion

Research Payloads

Five SS2s by end of 2023 at Spaceport America

Micro-gravity and suborbital space conditions research

Representative Customers













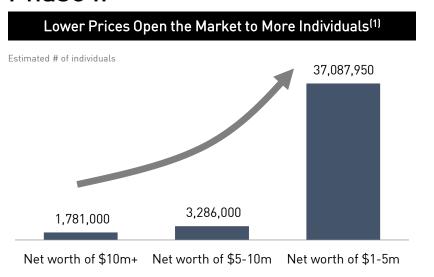


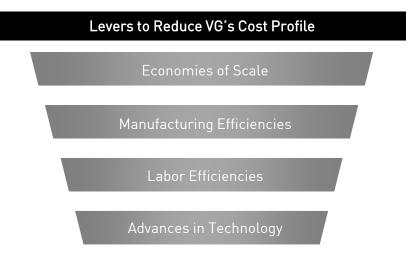






TAM Expansion Through Democratization and Efficiencies of Scale: Phase II





Additional Spaceports

Discussions with governments underway in Italy and UAE for potential new spaceports







Hypersonic Point-to-Point Travel: Phase III



- Opportunities to apply VG's proprietary technologies and capabilities for other commercial and governmental uses
- Potential opportunities to develop supersonic and hypersonic vehicles that drastically reduce travel time for point-to-point travel
- Significant market opportunity (~\$900 billion commercial aviation market and ~\$600 billion total commercial passenger travel market)

Potential Future Applications of VG's Technology and Capabilities









Virgin Galactic Investment Highlights

Will Be the First and Only Public Company in Commercial Human Spaceflight Sizeable and Growing Market of High Net Worth Individuals Attractive Business Model with Reusable, Scalable Design **Demonstrated Willingness to Pay** Strong Competitive Position, Underpinned by More than \$1 Billion of Investment Exciting Financial Profile with Robust and Profitable Growth Experienced and Proven Management Team and Flight Team





Virgin Galactic is Uniquely Positioned to Capture the Luxury Market

Sector Appeal

Industry Credibility

Total Addressable Market

Evolving Consumer Preferences

Brand Differentiation



Personal Spaceflight

Commercial Space Travel Coming of Age

Commercial Space Industry Size^[1]

By 2040, the commercial space industry is expected to reach 5% of U.S. GDP \$1.5tn \$385bn \$175bn 2017 2040 2005

Significant Technological Advancements



High rates of flight for new entrants

Recent Proof of Concept



Private companies gaining credibility

U.S. Chamber of Commerce.

Significant Addressable Market



- Individuals with \$10+ million net worth expected to grow at a 2018A 2023E CAGR of 6%
- Growth of high net worth population has historically exceeded GDP growth
- VG's business plan contemplates serving only a very small percentage of HNW individuals

Key Drivers



Overall growth in global markets

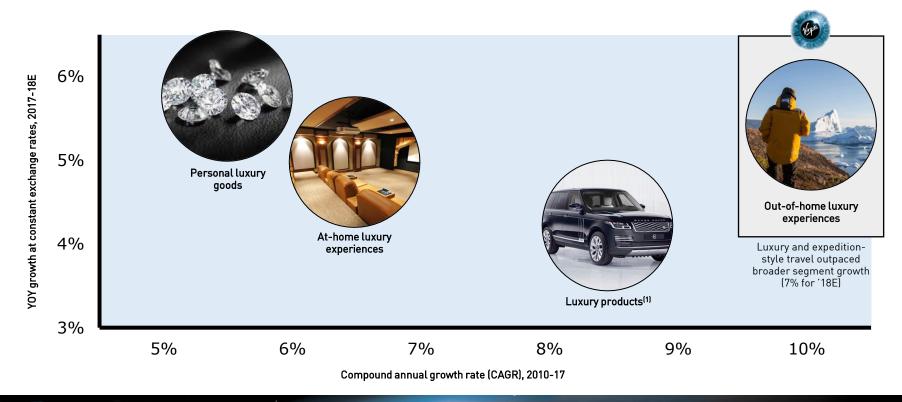


 Growth in entrepreneurs and self-made wealth



 Growth of economies in emerging markets

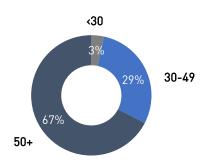
Spending Preferences and Trends Favor Luxury Experiences





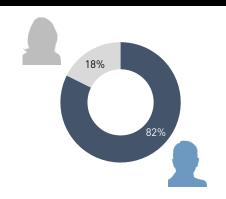
600+ Future Astronauts, ~\$80 Million of Deposits

Future Astronauts by Age



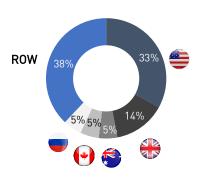
Interest across all ages, driven by shared beliefs and ambitions

Future Astronauts by Gender



Females account for 18% of committed Future Astronauts compared to 11% of current worldwide astronauts

Future Astronauts by Nation



Global interest, with strong demand and significant scope to grow geographic representation









VMS Eve: The Carrier Aircraft



Carries VSS Unity up to its launch altitude of approx. 45,000 feet, offering what we believe to be critical safety advantages, including horizontal takeoff and landing

| Carrier Aircraft Highlights | S | | |
|---------------------------------|---|--|--|
| Crew | 2 pilots | | |
| Length | 77.7 feet (~24 meters) | | |
| Wingspan | 140.0 feet (~43 meters) | | |
| Takeoff / Landing | | | |
| Max Payload Weight (Takeoff) | 30,000 pounds | | |
| Max Payload Weight (Landing) | 17,000 pounds | | |
| Min Runway | 9,400 feet (at sea level and max weight) | | |
| Flight Capabilities (Variou | s Missions) | | |
| Max Altitude | 55,000 feet | | |
| Cruising Speed | Mach 0.6 (360+ mph) | | |
| Range | 2,800 miles | | |
| Endurance | 12+ hours | | |
| Total Flights | 265+ | | |



VSS Unity: The Spaceship



Reusable winged spacecraft designed for air launch from VMS Eve

| Spaceship Highlights | | | | | |
|---------------------------|--|--|--|--|--|
| Crew | 2 pilots | | | | |
| Length | 60 feet (~18 meters) | | | | |
| Tail Height | 18 feet (~5 meters) | | | | |
| Wingspan | 42 feet (~13 meters) | | | | |
| Capacity | | | | | |
| Max Passengers | 6 | | | | |
| Max Payload | Equivalent to 6 passengers | | | | |
| Flight Capabilities | | | | | |
| Top Speed | Mach 3 | | | | |
| Flight Duration | Up to ~90 minutes | | | | |
| Total Flights (SS2 Model) | 50+, including 37 glide and 8 powered | | | | |

Hybrid Rocket Motor: The Motor



Displayed at the Moving Beyond Earth Gallery of the National Air and Space Museum

- Recognized as "most powerful hybrid rocket used in manned flight" by the Guinness Book of World Records
- Robust, yet simple human spaceflight rocket motor
- Max thrust: 72,000 lbs
- 100+ motors built to date
- Easy-to-store, replaceable fuel cartridge
- Liquid oxidizer with solid fuel grain



Feathering Re-Entry Mechanism





Virgin Galactic's Commitment to Safety

Horizontal Takeoff and Landing



Takeoff and landing on regular runways similar to a typical airliner

Two Pilots



Creates redundancy in operations and in-space safety

Mothership Engine Reliability



Highly reliable and rigorously tested jet engines for first 45,000 feet of journey

Hybrid Rocket Motor



Robust yet simple design with simple shut-off control

Flight Controls



Simple operations aimed at maintaining reliability

Seating



Two position seats to favorably redirect G loads in accordance with phases of flight

Re-Entry Mechanism



Proprietary feathering system for re-entry via gentle glide descent

Abort Architecture



System designed to allow for abort at any phase of the flight

Full Lifecycle Aerospace Development Expertise









Design, Modeling and Analysis

Manufacturing

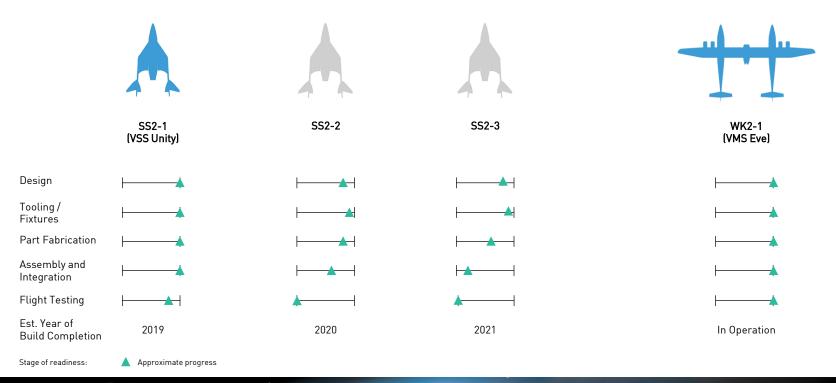
Assembly and Systems Integration

Testing and Validation

Capabilities cover the full range of design, manufacturing, ground testing, flight testing and post-delivery support



Fleet Build Progress and Expected Expansion Schedule





Overview of Virgin Galactic's Ground Operations

- Emphasis on safety, reliability and maintainability for vehicles rooted in decades of best practices in airline / charter operations
- Prudent planned maintenance assumptions during ramp-up period
- Learnings from the maintenance program during ramp-up period will support the enhancement and efficient evolution of the program to support high flight rate operations





Illustrative 5-Day SS2 Operational Flow

| T-4 Days | T-3 Days | T-2 Days | T-1 Day | Flight Day |
|---|---|---|---|---|
| Scheduled maintenance | Scheduled maintenance | Pre-flight prep continued | Pre-flight prep continued | Nitrous Oxide loaded |
| Compliance-driven functions | Pre-flight⁽¹⁾ prep initiated | Rocket motor loaded | SS2 and WK2 mated | Final pre-flight prep concluded |
| | | Cabin configuration | Helium pressurant tank serviced | Spaceflight |
| | | | | Post-flight work completed |



Shorter Launch Preparation Times Compared to Traditional Vehicles

Target WK2 and SS2 Operational Parameters



- Anticipated monthly flight rate: **15 flights** per vehicle (at scale)
- Supported by 2 days of scheduled maintenance per week
- 5-day scheduled maintenance period per month, coinciding with SS2 downtime
- Anticipated monthly flight rate:
 5 flights per vehicle (at scale)
- Supported by 5-day operational turnaround after each flight
- 7-day scheduled maintenance period per 5-flight cycle; scheduled annual downtime of 1 month



| Pre-Flight Activity | Duration |
|--------------------------------------|--------------|
| WK2 Fueling | < 30 minutes |
| Rocket Motor CTN Physical Install | 4 hours |
| SS2 Jack and Mate to WK2 | < 1 hour |
| Pressurant Tank Load / Boost | 1 hour |
| Nitrous Load | 2.5 hours |





Key Assumptions

Start of Commercial Operations

 Financial projections assume June 2020 commencement of commercial operations, starting with one vehicle in service

Flight Rates

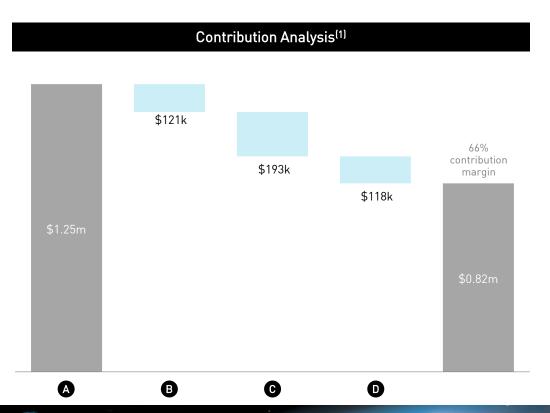
 Modest flight rates at commercial start, scaling up to an ultimate anticipated flight rate of 5 per month in 2022 and thereafter

Vehicle Build and Operational Stats

 Second and third SS2 vehicles (SS2-2, SS2-3) are currently under construction and are expected to be complete by the end of 2020 and 2021, respectively

- Build time of approximately 24 months for SS2-4 through SS2-5
- While vehicles have capacity for 6 passengers, early projection years assume lower passengers per flight
 - SS2-1 (VSS Unity) passengers per flight starts at 4, increasing to 5 in 2021 onwards
 - SS2-2 and SS2-3 passengers per flight start at 5, increasing to 6 in 2021 onwards
 - Run-rate of 6 passengers per flight throughout life of SS2-4 and SS2-5 vehicles

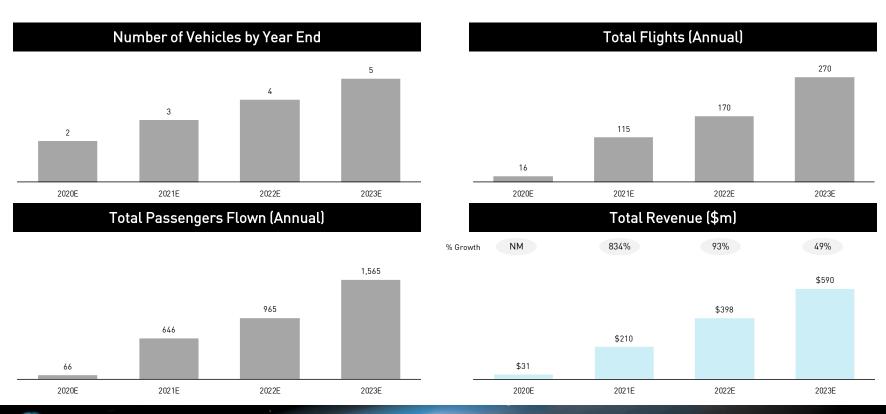
Highly Attractive Single Flight Unit Economics



- A Ticketed revenue: Assumes flight carries 5 passengers at \$250,000 per passenger
- B Rocket motor and fuel costs: Assumes price per rocket motor decreases over time via additional investments in advanced manufacturing capabilities, as well as learning curve efficiencies and benefits of economies of scale, modestly offset by inflation; fuel costs increase gradually over time, driven by inflation
- Customer costs: Includes costs of insurance and customer training & experience, subject to inflationary increases over time
- Flight operations costs: Includes fleet management and consumables and other flight related operational costs



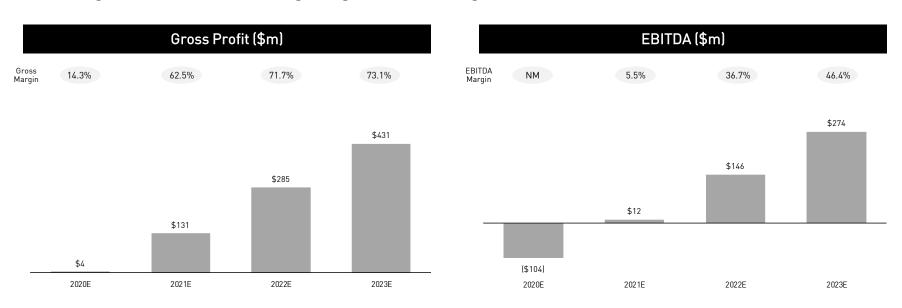
Key Assumed Operational Metrics and Revenue





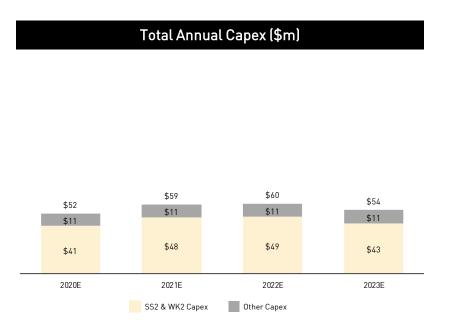
Source: VG Management.

Strong Profitability Highlights Strength of Business Model

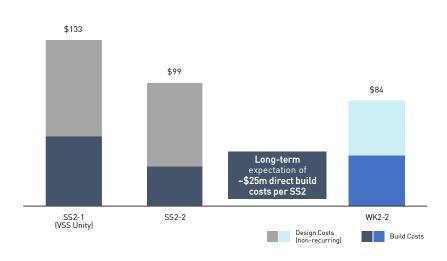


Run-rate gross and EBITDA margins are projected to reach approximately 73% and 46%, respectively, within 3 years of commencement of commercial operations, assuming operations start in June 2020

Estimated Capex Spend Over Time



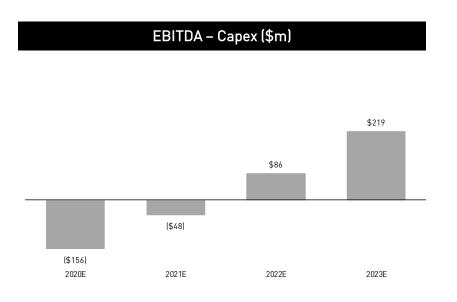
Total Direct Design and Build Costs by Vehicle (\$m)



Total costs per vehicle are expected to decrease significantly due to the learning curve and sizeable non-recurring investment costs incurred historically for the initial vehicles

45

Significant Liquidity to Fund Operations



Liquidity

- Strong liquidity position today as a result of cash from merger with IPOA
- Company has no debt on its balance sheet
- Approximately \$16 million current cash burn per month (\$190 million per year)⁽¹⁾
- For illustrative purposes, \$400 million of cash from the merger will provide more than two years of runway

EBITDA – capex of \$86 million achieved 2 years after commencement of commercial operations



Projected Financial Summary

| | Fiscal Year Ended | | | | CAGR |
|---------------------------------|-------------------|---------|---------|---------|-------------|
| (\$m) | 2020E | 2021E | 2022E | 2023E | '20E - '23E |
| Ticketed Revenue | \$21 | \$195 | \$376 | \$562 | |
| Other Revenue | 10 | 15 | 21 | 28 | |
| Total Revenue | \$31 | \$210 | \$398 | \$590 | 167.3% |
| % Growth | NM | 580% | 89% | 48% | |
| Rocket Motor Costs & Fuel Costs | (\$5) | (\$24) | (\$36) | (\$41) | |
| Flight Operations & Maintenance | [19] | (30) | (37) | (50) | |
| Customer Costs & Insurance | (3) | (24) | (40) | (68) | |
| Total COGS | (26) | (79) | (113) | (159) | |
| Gross Profit | \$4 | \$131 | \$285 | \$431 | 360.3% |
| % Margin | 14.3% | 62.5% | 71.7% | 73.1% | |
| Operating Expenses | (\$109) | (\$120) | (\$139) | (\$158) | |
| EBITDA | (\$104) | \$12 | \$146 | \$274 | NM |
| % Margin | NM | 5.5% | 36.7% | 46.4% | |
| Capex | (\$52) | (\$59) | (\$60) | (\$54) | |





Transaction Summary

- Pro forma enterprise value of \$1.5 billion
- 2.5x CY2023E revenue and 5.5x CY2023E EBITDA
- IPOA founder committed to invest \$100 million at \$10.00 per share in connection with the business combination^[1]
- Existing Virgin Galactic shareholders receive up to \$274 million in cash consideration at close and approximately 103 million shares of rollover equity^[2]
- Addition of Chamath Palihapitiya as Chairman and Adam Bain as a Director to Virgin Galactic's Board of Directors
- Completion of transaction is expected in Q4 2019



Valuation and Sources & Uses

Pro Forma Valuation

| (\$ in millions except per share values) | |
|---|---------|
| IPOA Illustrative Share Price | \$10.00 |
| Pro Forma Shares Outstanding (millions) (1) | 195.1 |
| Total Equity Value | \$1,951 |
| Cash on Balance Sheet | (452) |
| Total Enterprise Value | \$1,499 |

Pro Forma Enterprise Value / Revenue

3.8x (Based on 2022E Revenue of \$398 Million)

2.5x (Based on 2023E Revenue of \$590 Million)

Pro Forma Enterprise Value / EBITDA⁽²⁾

10.3 (Based on 2022E EBITDA of \$146 Million)

5.5x (Based on 2023E EBITDA of \$274 Million)

Sources & Uses [3]

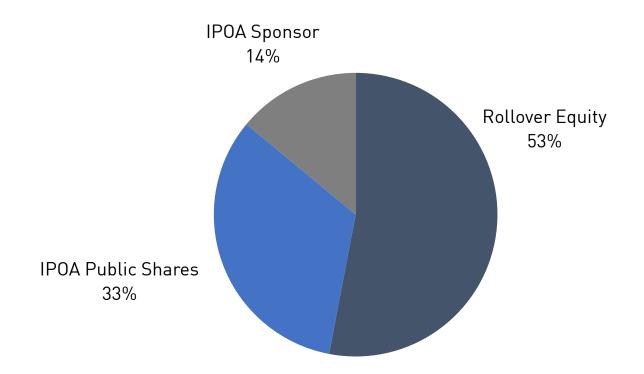
| \$674 |
|--------|
| 100 |
| \$774 |
| |
| \$452 |
| 274 (4 |
| 48 |
| \$774 |
| |



Cash to be held on balance sheet to support continued

growth and commercialization

Pro Forma Ownership^[1]





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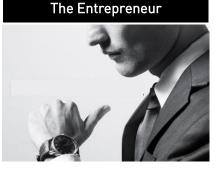


Who Are Our Customers?

The Space Enthusiast







followed large wanted to go since I watched those first steps on a fuzzy black and white TV33

I've done it all, but this is the ultimate tick on my bucket list!

If Richard is doing it, and Virgin is in charge of it, I'm in!

Space is the zeitgeist, and I want to be part of it. "



69 years old



45 years old



33 years old



Background: Set up and sold engineering business, now semi retired

Background: Started a pharmaceutical company

Background: Investment banker

Background: Entrepreneur and investor



Driving Future Astronaut Engagement



- Power of the brand and the community enables one-of-a-kind partnership collaborations
- Astronaut Edition Range Rover is only available to signed-up Future Astronauts and embodies all that they love about VG





Building the Most Exclusive Community in the World

The World Above



What: A clear passion for space and everything within it

The Final Frontier



What: A thirst for exploration and adrenaline

The Finer Stuff



What: An appreciation for the finer things in life

The World Within



What: Giving back, and inspiring the next generation of innovators

How:

- Eclipse festival
- CERN experience
- Evening with astronaut Tim Peake
- Intimate lunch with Professor Stephen Hawking

How:

- Morocco driving trip with Land Rover
- Formula E races around the world hosted by Virgin Racing
- Virgin Strive challenges

How:

- Annual Virgin Galactic Necker trip with Richard
- Wine trip, hosted by a master maker in Beaune
- Ice hotels to game reserves, working with Virgin partners

How:

- Galactic Unite initiatives:
- ✓ Scholarships
- ✓ Mentoring
- ✓ Space chats

