



**GALACTIC**

# **Virgin Galactic Legislative Finance Committee Testimony**

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A futuristic space station or orbital habitat with a large circular opening showing Earth from space. The interior is dark with blue lighting, and a bright light source is visible on the right side.

# Overview

## Virgin Galactic Updates

- Recent Milestones
- Progress Toward Commercial Flight
- Flight Program Update
- Gateway to Space Build-Out
- Future Growth – Orbital Spaceflight Initiative
- Future Growth – High Speed Transport & Roadmap

**A Proud New Mexican Company**

**Supporting Our Local Healthcare Heroes**

# Recent Milestones

## Spaceflight Operations

### Flight Test Program



Successful test flights from Spaceport America

### FAA Approval Process



Progressed towards flying paying customers under existing Launch License

## Advanced Development Initiatives

### Orbital Human Spaceflight



Signed Space Act with NASA for private orbital spaceflight; demonstrated demand from existing customers

### Future Astronaut Pool



Strong growth in One Small Step program; stability in existing customer community

### Spaceship Cabin Reveal



Held world's first virtual reveal of spaceship cabin design

### High Speed Point-to-Point Travel



Unveiled initial design concept of high speed vehicle

# Progress Toward Commercial Flight

Virgin Galactic continues to move steadily through our test flight program. This past quarter alone, we have:

- Completed eight flights, including six flights from Spaceport America for VMS Eve and two VSS Unity flights for glide testing.
- Conducted several tests of ground infrastructure to support spaceflights – including full scale exercises involving loading VSS Unity with its rocket motor, and filling the vehicle tanks with propellants and pressurants.



# Flight Program Update

Additionally, we have:

- Completed data review from second glide flight.
- Begun final installation of customer cabin and vehicle inspections.

Powered flight tests are expected to commence from Spaceport America this fall – which will carry NASA payloads. And - Richard Branson's flight is planned for early 2021



# Gateway to Space Build-Out

Meanwhile, we are make meaningful progress in the build-out of our Gateway to Space at Spaceport America.

This has included completing the construction of the third floor customer area – the future home of astronaut training, flight preparation activities, and the Customer Spaceship Training Cabin and Astronaut Lounge. We have received a Certificate of Occupancy for the area.



# Future Growth – Orbital Spaceflight Initiative

We are continuing our relationship with NASA for private orbital spaceflights to the International Space Station (ISS). Under our agreement, we will contribute end-to-end program management and integrated astronaut training for private passengers to the ISS.

- Entered into deposit agreements for orbital spaceflights with 12 customers, and expect our pricing to be competitive with other offerings in the market.
- This builds on our commercial expertise, industry knowledge, and spaceflight training experience.
- We are well positioned for this market through our commercial and spaceflight expertise, space training capabilities, and passionate existing customer base.



# Future Growth – High Speed Transportation

On August 3, 2020, we unveiled the initial design concept for a high-speed vehicle effort.

This has included:

- Entering into a Space Act Agreement with NASA to facilitate the development of sustainable high speed technologies over the coming years.
- Successfully completing a Mission Concept Review, attended by NASA representatives.
- Confirming our design concept meets high level of requirements and objectives of the mission, allowing progress to the next phase of design
- Executing a non-binding Memorandum of Understanding with Rolls Royce to facilitate further collaboration on the development of sustainable, cutting-edge propulsion systems for this type of aircraft.

The basic parameters of our initial high speed aircraft design include:

- Targeted Mach 3 certified delta wing aircraft
- Capacity for 9 to 19 people at an altitude above 60,000 feet





# A Proud New Mexican Company

Since transitioning to our headquarters at Spaceport America last year, Virgin Galactic has substantially expanded its economic footprint and impact across the state:

- Over **75 New Mexican suppliers, service providers, and supported organizations** in 2019/2020.
- **Over \$14.9 million spent in-state** in 2019/2020 (payroll & supplier spend).
- More than 100 employees relocated to New Mexico in 2019, and **over 70 New Mexican locals hired onto the team** to-date.



# Supporting Our Local Healthcare Heroes

In keeping with our core values, Virgin Galactic is proud to assist the men and women on the frontlines of the COVID-19 pandemic. Among the steps we've taken, we have:

- **Contributed \$30,000 towards the purchase of essential equipment and PPE** for local medical centers in Las Cruces. So far, we have been able to deliver 6 Airwash air scrubbers to MountainView Regional Medical Center.
- **Donated \$10,000 to the "All Together New Mexico" COVID-19 relief fund.** We have also contributed \$25,000 to the "Together Las Cruces" fund.
- **Provided a donation of \$10,000 to the American Red Cross** of New Mexico, El Paso, and Arizona Region.
- **Delivered boxed lunches to medical centers in New Mexico.** We have already provided 1,100 total lunches to Memorial Medical Center, MountainView Regional Medical Center, and Ben Archer Health Center frontline staff, and we are assembling care packages for staff working extra shifts.

