

# 17 years after founding Virgin Galactic, Branson bound for space

July 11 2021, by Lucie Aubourg

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After climbing to 50,000 feet (15 kilometers), VSS Unity ignites its rocket-powered engine to ascend at Mach 3 beyond the 50 miles (80 kilometers) of altitude considered the edge of space.

He's always dreamed of it, and in 2004 founded his own company to make it happen.

On Sunday, billionaire Richard Branson will take off from a base in New

Mexico aboard a Virgin Galactic vessel bound for the edge of space.

The Briton is hoping to finally get the nascent space tourism industry off the ground—but also go one up on Jeff Bezos by winning the race to be the first person to cross the final frontier in a ship built by their own company.

The Amazon founder's great rival, SpaceX boss Elon Musk, announced on Twitter he'd be there to witness it.

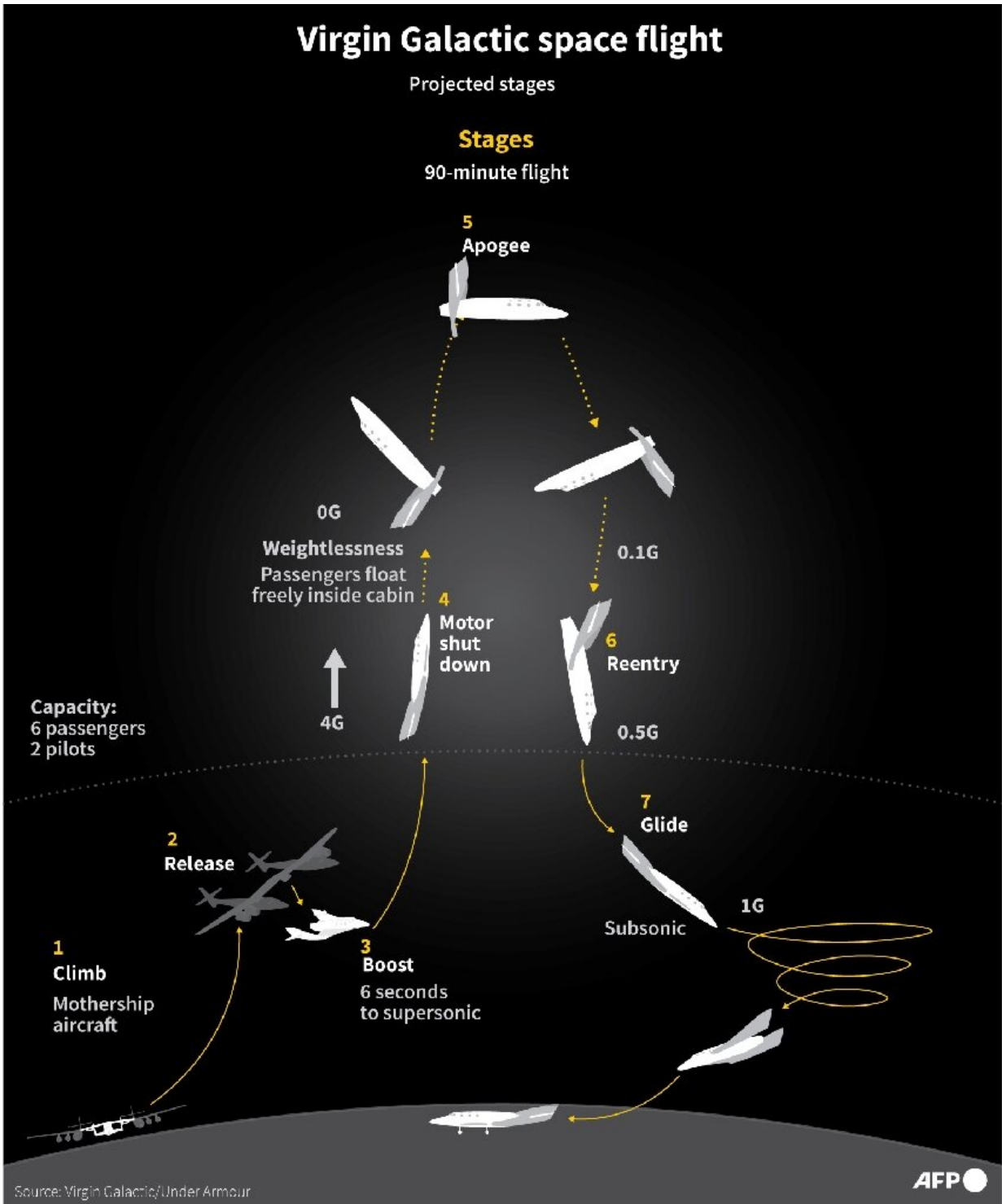
"Will see you there to wish you the best," he wrote to Branson.

Hours later, Bezos chimed in with a message of support, but only after his own company, Blue Origin, had posted a viral tweet drawing an unfavorable comparison between its space offerings and Virgin Galactic's.

Several tourists journeyed to the International Space Station in the 2000s, but on Russian rockets.

Branson's official role is to evaluate the private astronaut experience to enhance the journey for future clients.

The spaceflight should take place at 8:30 am Mountain Time (1430 GMT), after overnight weather conditions forced a 90-minute delay. Virgin Galactic is providing a livestream of the launch on its website.



Graphic showing the projected flight stages of Virgin Galactic when it begins operating to carry space tourists.

A massive carrier plane will take off from a horizontal runway, flown by two pilots, gaining altitude for about an hour.

Below this plane hangs the spaceship VSS Unity—a SpaceShipTwo-class suborbital rocket-powered spaceplane—with two more pilots and four passengers: Branson and three Virgin employees.

After climbing to 50,000 feet (15 kilometers), VSS Unity, which is about the size of a private jet, will be dropped and then ignite its rocket-powered engine to ascend at Mach 3 beyond the 50 miles (80 kilometers) of altitude considered the edge of space by US agencies.

Once the rocket engine is cut off, passengers can unbuckle and experience a few minutes of weightlessness, while admiring the curvature of Earth from the ship's 17 windows.

After peaking at around 55 miles of altitude, the ship will re-enter the thick part of the atmosphere and glide back to the runway.

## **Space base**

Branson, who founded the Virgin Group that today has interests in everything from commercial aviation to fitness centers, is known for his appetite for adventure and has set world records in hot air ballooning and boating.



Billionaire Richard Branson will take off from the Spaceport America base in New Mexico.

"As a child, I wanted to go to space," the brash 70-year-old wrote a few days ahead of his trip.

"When that did not look likely for my generation, I registered the name Virgin Galactic with the notion of creating a company that could make it happen."

The dream almost came to an end in 2014 when an in-flight accident of a Virgin Galactic vessel caused the death of a pilot, considerably delaying the program.

Since then, VSS Unity has successfully reached space three times, in 2018, 2019—which included the first crew member who wasn't a pilot—and finally May this year.

Sunday's spaceflight takes off from Spaceport America, a huge base built in the Jornada del Muerto desert, around 20 miles southeast of the nearest dwelling, Truth or Consequences.

Financed largely by the state of New Mexico, Virgin Galactic is the principal tenant.

The base includes a runway more than two miles long and a building with spaces dedicated to flight operations, as well as a reception center for future customers.



Inside the cabin of Virgin Galactic's spaceship.

### **Paying passengers in 2022?**

After Sunday, Virgin Galactic plans two further flights, then the start of regular commercial operations from early 2022. The ultimate goal is to conduct 400 flights per year.

Some 600 tickets have already been sold to people from 60 different countries—including Hollywood celebrities—for prices ranging from \$200,000 to \$250,000.

And though, according to Branson, "space belongs to us all," the opportunity for now remains the preserve of the privileged.

"When we return, I will announce something very exciting to give more

people the chance to become an astronaut," he promised.

The competition in the space tourism sector, whose imminent rise has been announced for years, has come to a head this month.

Bezos, the richest man in the world, is due to fly on July 20 on Blue Origin's New Shepard rocket.



The competition in the space tourism sector, whose imminent advent has been announced for years, has come to a head this month; Jeff Bezos (left) is set to fly just days after Richard Branson (right).



Blue Origin posted an infographic Friday boasting the ways in which the experience it offers is superior.

The principal point: New Shepard climbs up to more than 60 miles in altitude, thus exceeding what is called the Karman line, the frontier of space according to the international convention.

"None of our astronauts have an asterisk next to their name," the company bragged.

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