



# SPACE EXPLORATION THE BILLIONAIRE **WAY**

THE BEGINNING OF SPACE TOURISM



It's 2021, and humans are challenging their limitations at breakneck speed. The newest dare that a commoner has taken is to reach the edge of the space and be back home safely. July 2021 was an eventful month in the history of humanity. Until now, only trained professionals or astronauts were exiting the Earth's orbit. But thanks to billionaires like Jeff Bezos, Elon Musk and Sir Richard Branson, ordinary people like us are getting a chance to venture into space and come back safely to Earth.

"We are here to make space more accessible to all. Welcome to the dawn of a new space age." After his first flight to space with his VSS Unity crew of five members, Richard Branson was quoted right after. A little over a week later, Jeff Bezos took his team on Blue Origin's New Shepard to space. The next in line is Elon Musk, who has his ticket ready for space tourism with Branson's Virgin Atlantic. A lot of people have bought their tickets to space ride for a whopping \$250,000 already!





Imagine how much money Virgin Atlantic has already made, and with more and more people stepping up to take the first ride, space tourism is the next big thing. Firms like SpaceX, Virgin Galactic and Space Adventures are working on making space tourism accessible to all. As per the reports, the space tourism market is expected to grow multifold in the next decade. It is estimated to reach \$2.58bn in 2031, rising 17.15% each year for the next ten years.





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HOW DID THEY MAKE  
IT HAPPEN?

WHAT LIES NEXT?

HOW CAN YOU HELP  
REDUCE THE  
NEGATIVE IMPACT?

# HOW DID THEY MAKE IT HAPPEN?







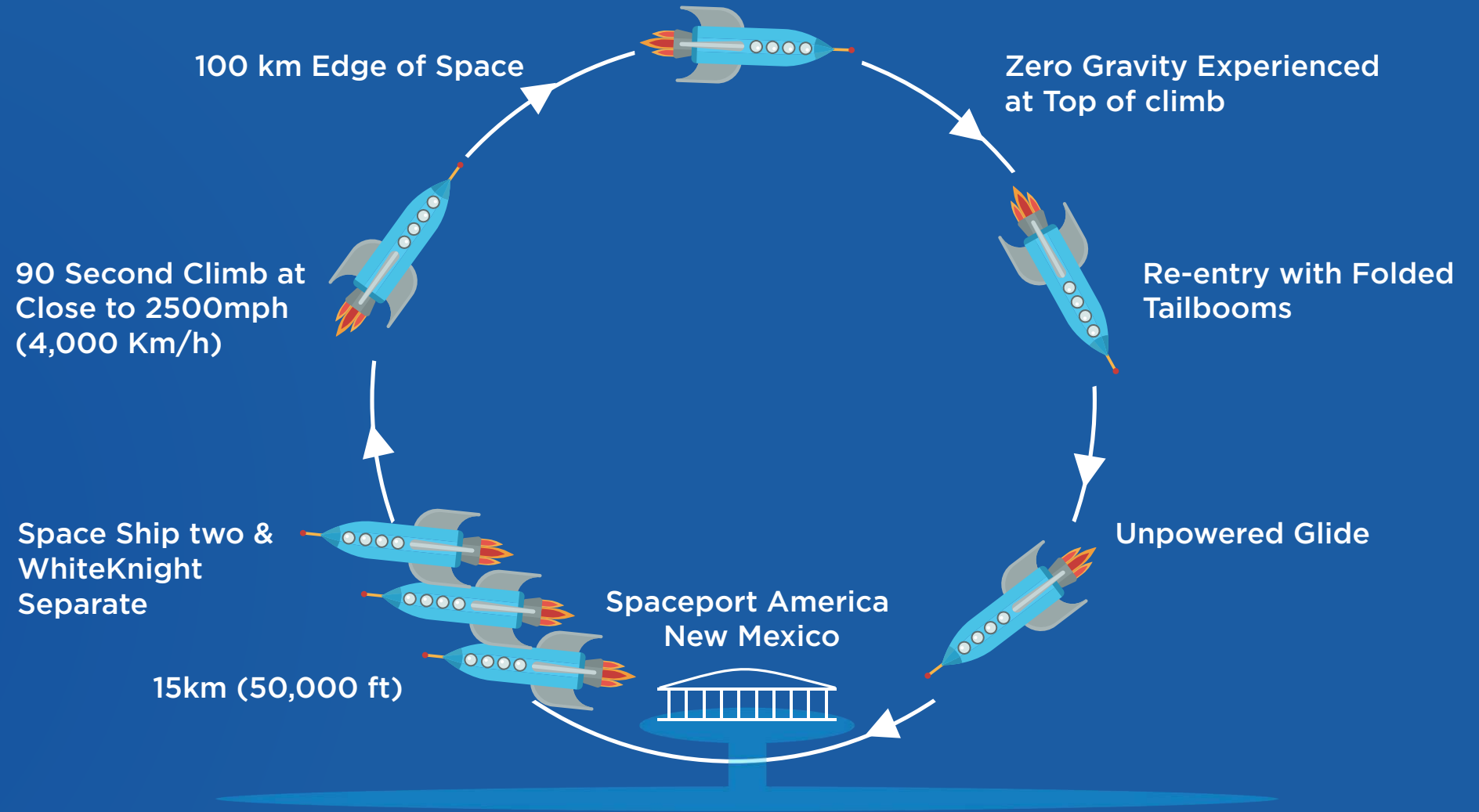
Sir Richard Branson's childhood dream was to view the Earth from space. But, it took 17 long years for his firm, Virgin Atlantic, to make his dream come true. Like him, many people envisioned travelling to space, and now they are looking forward to a possibility. Let's talk about how VSS Unity made it to the edge of the space.

VSS Unity, the primary vehicle, was carried on a vast aeroplane up in the air. Then, after reaching about 15km high, Unity blasted off into space using a rocket motor. The ignition burnt for about 60 seconds, helping Unity get roughly 90kms above the mean sea level. Once the vehicle reached the boundary of the outer atmosphere of Earth, known as the Kármán line, the crew was able to experience weightlessness. Here, they could float around inside the vehicle, and outside the window, there was a magnificent view of the Earth.

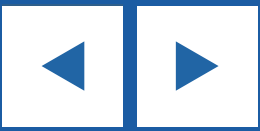


# UNITY ROCKET PLANE FLIGHT PLAN

This first-ever ride to space lasted for about one and a half hours, after which the crew landed safely on the Earth.



Source: Virgin Galactic





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“I’ve had my notebook with me, and I’ve written down 30 or 40 little things that will make the experience for the next person who goes to space with us that much better. The only way sometimes you can find these little things is to get in a spaceship and go to space and experience it for yourself.”

In the first interaction after the successful space flight, Richard Branson was quoted this while sharing his exciting journey. After the progress of Virgin Atlantic and Blue Origin Astro-tourism ventures, Japan and German car manufacturer Porsche are preparing to jet off humans to the suborbital space. All eyes are now on Elon Musk’s SpaceX and what unique it has to offer to the citizens of the Earth.







With marvellous inventions come a handful of drawbacks. But the good thing about these shortcomings is finding opportunities to turn these drawbacks into benefits. Or if not benefits, how can one reduce the impact of these inventions.

According to the reports, one rocket launch emits 200-300 tonnes of carbon dioxide. At the moment, the carbon emission from rockets is less than that of the aviation industry. But with an increase in citizen rocket travel, this kind of pollution in the upper hemisphere of the Earth's environment will result in long term negative impacts.

Emissions from these rockets are emitted right into the upper atmosphere, which means they stay there for at least two to three years. Even water gets injected into the upper atmosphere, which causes the formation of clouds and can have a warming impact on the planet.





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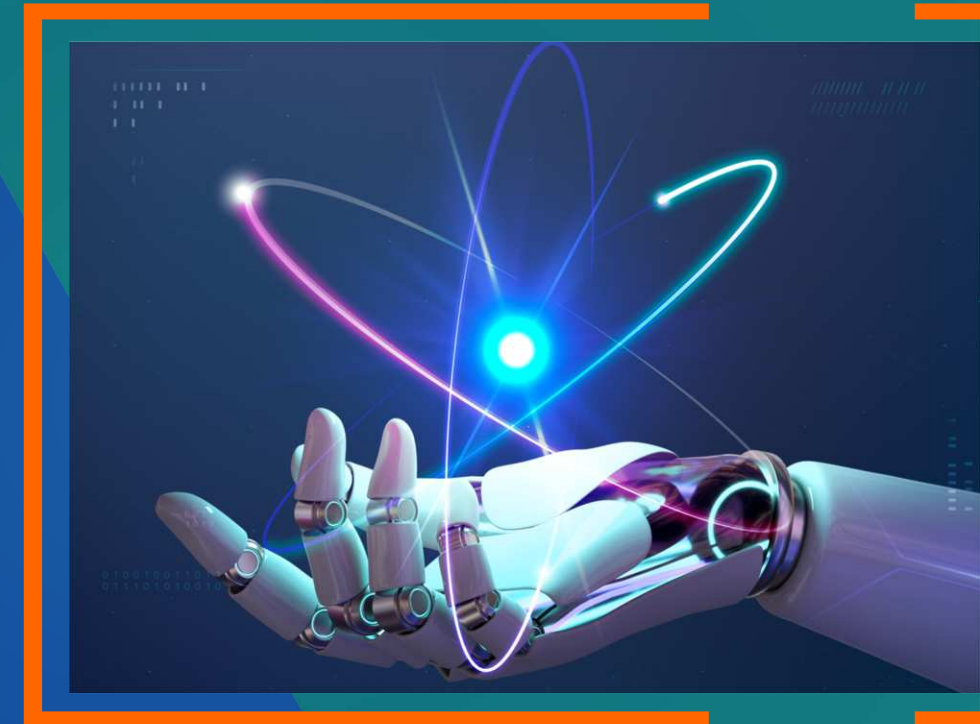
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# HOW CAN YOU HELP REDUCE THE NEGATIVE **IMPACT?**



Birla Institute of Management Technology (BIMTECH) located in Greater Noida in the National Capital Region of Delhi NCR is one of the top Management Institutes in India. It was established in 1988 under the aegis of the Birla Academy of Art and Culture. Late Basant Kumar Birla, Ex-Chairperson of the Basant Kumar Birla Group of Companies and Late Sarala Birla, were the founders of BIMTECH. The Institute is governed by an eminent Board of Governors mostly drawn from the top echelons of the industry. The Institute is supported by the Basant Kumar Birla Group and Aditya Birla Group of Companies. BIMTECH is accredited by NAAC (UGC) with A+ grade. The Institute achieved Category-1 graded autonomy from All India Council for Technical Education (AICTE) in 2020 among 400 PGDM Institutions. Its Alumni Chapters are located internationally in London, Singapore, Dubai, Canada and US.

The Institute is a mini India having students from 26 states of the country. BIMTECH is the only B-School to be among the top 25 in Atal Ranking of Institutions on Innovation Achievements





(ARIIA an initiative of Ministry of Education, Govt. of India) in 'Private Institutions' category. BIMTECH is also the first Indian B-school to get BSIS Label (Business School Impact System) from EFMD, Brussels which is a leading international accreditation body for business schools. The Institute has tie-ups with 64 foreign B-Schools and Universities.

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# BIMTECH



Plot No. 5, Knowledge Park II,  
Greater Noida (NCR)  
Uttar Pradesh - 201 306.



+91-120-6843000-10  
9355024501-10  
Toll Free No. 1800 5723 999



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