



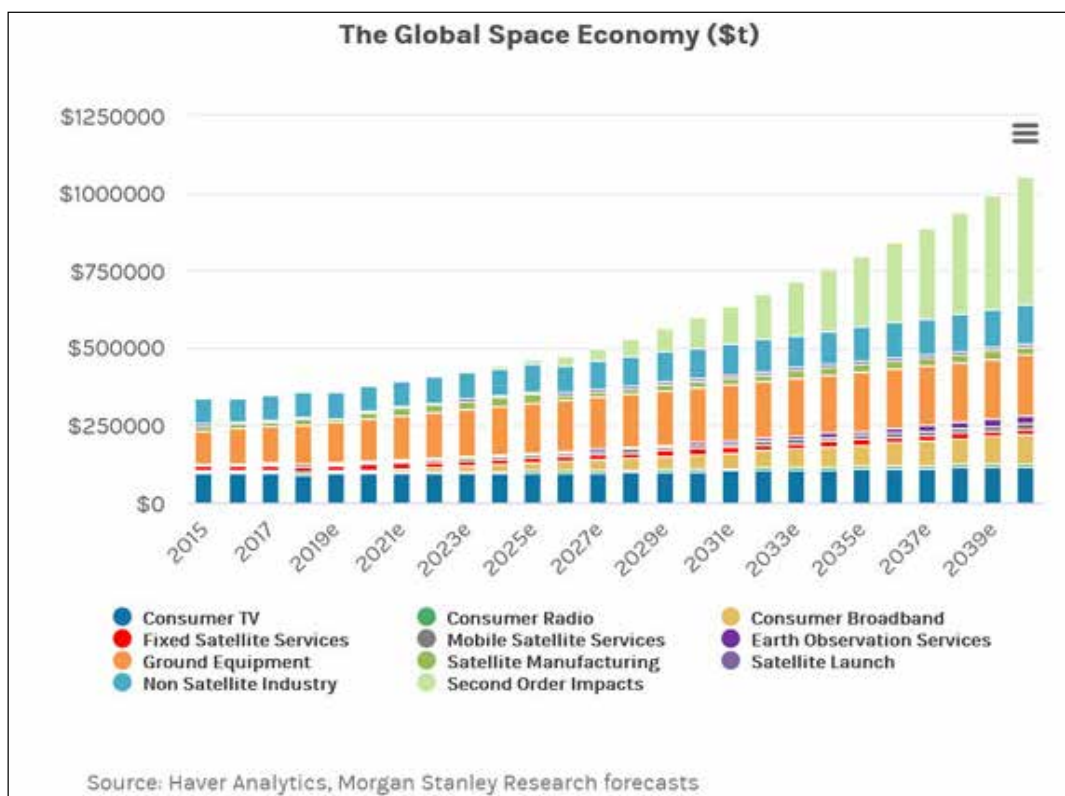
10 Groundbreaking
SPACE COMPANIES

**That Should Be on
Everyone's Watchlist**

10 Groundbreaking Space Companies That Should Be on Everyone's Watchlist

By Paul Mampilly
Editor, *Profits Unlimited*

LOOK to the sky!
That's where a new industry is taking shape.
And it's where I believe we're going to find some of the best investment plays of our lifetime!
I'm talking, of course, about the new space industry, which is poised to skyrocket in the years ahead.
The global space industry is going to generate revenue of more than \$1 trillion by 2040, according to my research. That's nearly three times what it is today (\$350 billion)!



Just imagine what that means for investors with their eyes on the skies?

I've been watching this new industry rev up, and have identified a new "watchlist" of 10 companies that are leading the way.

Some are big-name tech titans you already know. Some are smaller innovators who are just getting off the ground. Some are public, some are private.

But all 10 are positioned to lead and profit from the new space industry.

That's why I'm keeping a close eye on them as this \$1 trillion industry takes off.

Now, just to be clear — these are not the companies we will be tracking in our portfolios. But I believe these are some of the best bets to take advantage of the Space Age we are entering!

No. 1: Blue Origin

The first company on my watchlist — **Blue Origin** — is already becoming a household name. It is the company created by Jeff Bezos, president, CEO and founder of Amazon.

That tells me a lot about the opportunities the new space economy will generate.

We can't yet invest in Blue Origin. It is a privately held American aerospace manufacturer and spaceflight company. But it has developed what may become the first reusable space vehicle designed to take paying tourists to the edge of space and back.

The company's signature New Shepard rockets have already made seven trips to space over the last five years.

I believe Blue Origin will soon be flying people into orbit, but NASA is also looking to the company to provide vehicles for research scientists and astronauts.

Blue Origin also has plans for a moon lander known as "Blue Moon," slated to be ready by 2024.

This year, the company was among several aerospace giants — including Lockheed Martin, Northrop Grumman and Draper — that received a \$579 million grant to develop a landing system as part of NASA's Artemis program to return humans to the moon.

Once the company announces a firm date for beginning commercial passenger flight, I believe Blue Origin's fortunes will take off — just like one of its New Shepard rockets.

That's why Blue Moon is the first company on my watchlist of phenomenal space innovators that you should be watching, too!

No. 2: SpaceX

The second company on my list is a name you already know: Elon Musk's SpaceX, a private company that has become the clear leader of the 21st century space race.

SpaceX specializes in the manufacturing, design and launch of next-level spacecraft and rockets.

Its game-changing products include:

- Starlink broadband satellites.
- SpaceX Falcon 9 rockets.
- Starship prototypes capable of deep space missions to Mars and beyond.

These three products are the spear points of three major space industry trends I see unfolding as part of what I call America 2.0 — the Fourth Industrial Revolution.

Private Spaceflight: SpaceX is on track to compete with Blue Origin to be the first company that will ferry paying passengers to space and back. Musk recently announced that the Starship rocket will reach orbital flight in 2021.

But Musk has his sights set even higher. He said Starship might be ready for an uncrewed cargo mission to Mars in 2024.

I believe that what all of this means is that Starship will give everyday people who want to fly to space the opportunity to get there.

Space Internet: SpaceX will change the way we access the internet with the company's Starlink internet-beaming satellites.

The company plans to launch 12,000 Starlink satellites into orbit by 2025 and more than 40,000 satellites after that. That network will cover our world with inexpensive, high-speed internet.

To date, the company has launched nearly 900 satellites — some of which are visible with the naked eye. This has given SpaceX enough Starlink satellites to roll out public beta tests in the northern U.S. and southern Canada.

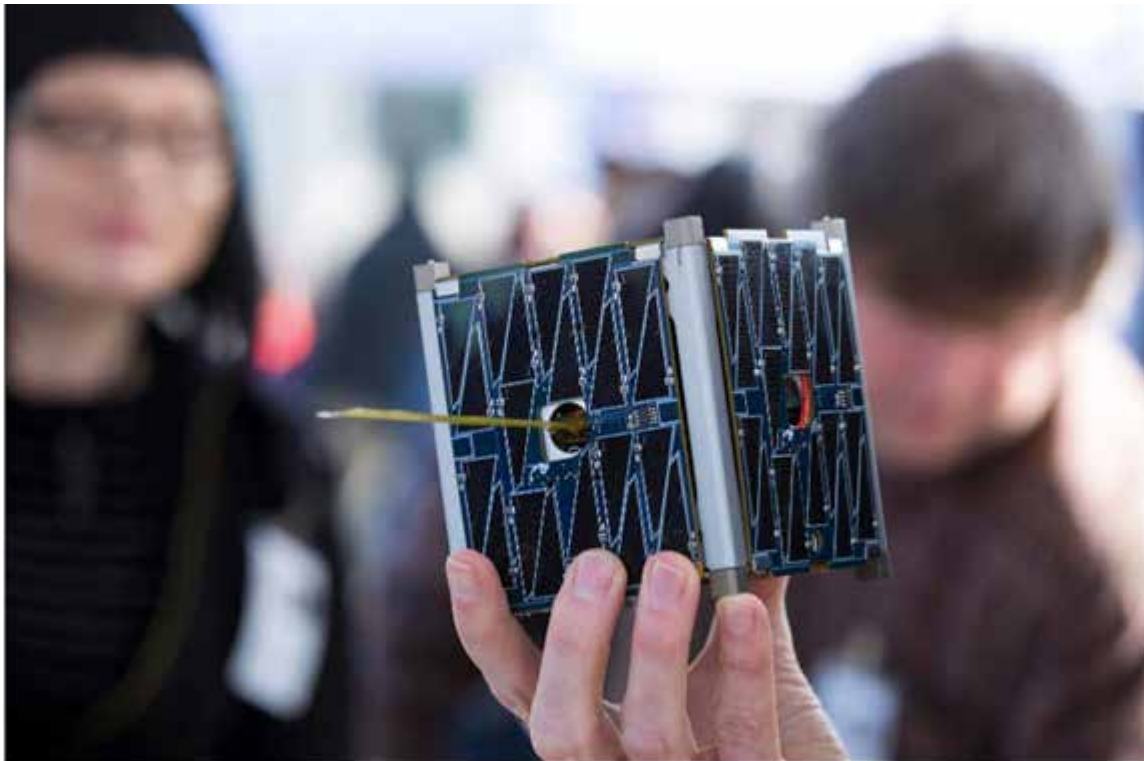
With these launches and super-high speeds, SpaceX internet will soon be ready for prime time. And Musk has estimated that the Starlink service could generate as much as \$30 billion a year.

Nanosatellites and Ride-Sharing: SpaceX is also leading the pack in the next-generation satellite industry that is completely disrupting the traditional old-world satellite market of the past.

Not long ago, launching a satellite cost \$100 million or more and typically required extended planning time. Government agencies and large defense contractors cornered the market.

But then, SpaceX developed the first private liquid-fueled rocket to launch a commercial satellite into orbit — ushering in a new breed of smaller, cheaper and better “nanosatellites.”

Since then, the industry hasn't been the same, as other cutting-edge companies have sought to follow SpaceX's lead.



A nanosatellite at the 2015 NASA showcase.

They have the capabilities of larger satellites but in a miniaturized 2-pound package. Instead of \$100 million to build and launch, their cost is in the thousands.

They're superfast, orbiting the Earth in less than 100 minutes at speeds up to 17,000 mph.

And now, SpaceX is taking the lead in a new spinoff of the satellite industry — known as “ride-sharing” — that will soon allow other nanosatellite manufacturers to hitch a ride on Falcon 9 for a \$1 million ticket.

The global nanosatellite market is expected to reach \$4.9 billion by 2025, expanding at an annual rate of 22% over the next five years.

For all of these reasons, SpaceX is one of my companies to watch as the new space race picks up speed.

No. 3: Paragon Space Development Corp.

So, now you know that Blue Origin and SpaceX are the companies that will build the rockets to get us to space. But the third company on my list — **Paragon Space Development Corp.** — will make *living* in space a reality.

I've loved Star Wars and Star Trek as a kid — in part because of the exciting starships that became space homes away from home on Earth. One of my favorite sweatshirts even reads: "Occupy Mars!"

Paragon, an Arizona company, is building the systems needed for the kind of space homes, ships and habitats we'll need in the future — such as life-support systems and spacesuits.

The company really does it all — it designs, builds, tests and operates all of the systems astronauts and regular people will need to live and work in space, on the moon and even other planets.

Paragon is partnering with some of the biggest names in aerospace and aviation to make life in space a reality:

- The company is working with Mars One to develop life-support and spacesuits for the first manned colony on the red planet.
- It is working with Lockheed Martin on the NASA Orion program to provide oxygen, heating, cooling and sensor components necessary for space flight.
- Paragon is partnering with Oceaneering Space Systems to build a next-gen "EVA spacesuit" worn by astronauts and has joined forces with Boeing to create new air-handling systems for new space transportation systems.

The company has also logged an impressive series of "firsts" in space, including:

- The first commercial experiment on the International Space Station.
- The first animals in space to perform complete life cycles.
- The first near-space jump over 135,000 feet — still a world record today.

So, you see, Paragon has an inside line with some of the most exciting space projects that have earned the company a place on my top 10 watchlist.

No. 4: NanoRacks

I like to think of **NanoRacks LLC** as a kind of one-stop shop for in-space services.

The private Houston-based company specializes in technologies and services required for human spaceflight — from ground-based research projects to space station living quarters.

It provides commercial hardware and services for NASA and the U.S. National Laboratory on board the International Space Station. It has been building the tools to allow for the repurposing of in-space hardware ("space junk") and turning it into agile space stations, which the company calls: Outposts.

And its customers include some of the space industry's heaviest hitters.

Over the past decade, NanoRacks has racked up quite a list of greatest hits:

- Its founder, Jeff Manber, headed up the first and only commercially funded mission of the Russian space station, making him the only American to ever work officially for the Russian space program.
- The company has deployed over 800 payloads to the International Space Station and 64 satellites into low-Earth orbit.
- Nanoracks created XO Markets, the first space holding company, to address differing local and international growth areas in the industry.

The company is partnering with NASA on a program aimed at developing the technology to turn spent rocket tanks into habitable living areas to be tested in space.

From what I can see, NanoRacks will be a key link for the chain of service providers who will be leading America's return to space.

No. 5: FireFly Aerospace

Cheaper, better, faster.

Those are the three keys to success for any space tech innovator. And the next company on my watchlist checks every box.

Firefly Aerospace is a Texas-based private aerospace firm that is a global leader in developing cheaper and better flight vehicles designed to become the technology worker bees of the new commercial space industry.

Firefly Aerospace's signature product is its "state of the art" Alpha 2.0 launch vehicle. It is designed to place a 2,200-pound payload into a low-Earth orbit.

But the company has greater ambitions. It is also partnering with Israel Aerospace Industries that owns the intellectual property of the so-called "Beresheet" lunar lander.

As part of the partnership, Firefly plans to build a lunar lander based on Beresheet that would be called Genesis, which NASA may one day use to deliver payloads to its own lunar base.

That means Firefly will be a front-and-center superstar in the plans for a manned lunar habitat.

No. 6: Maxar Technologies

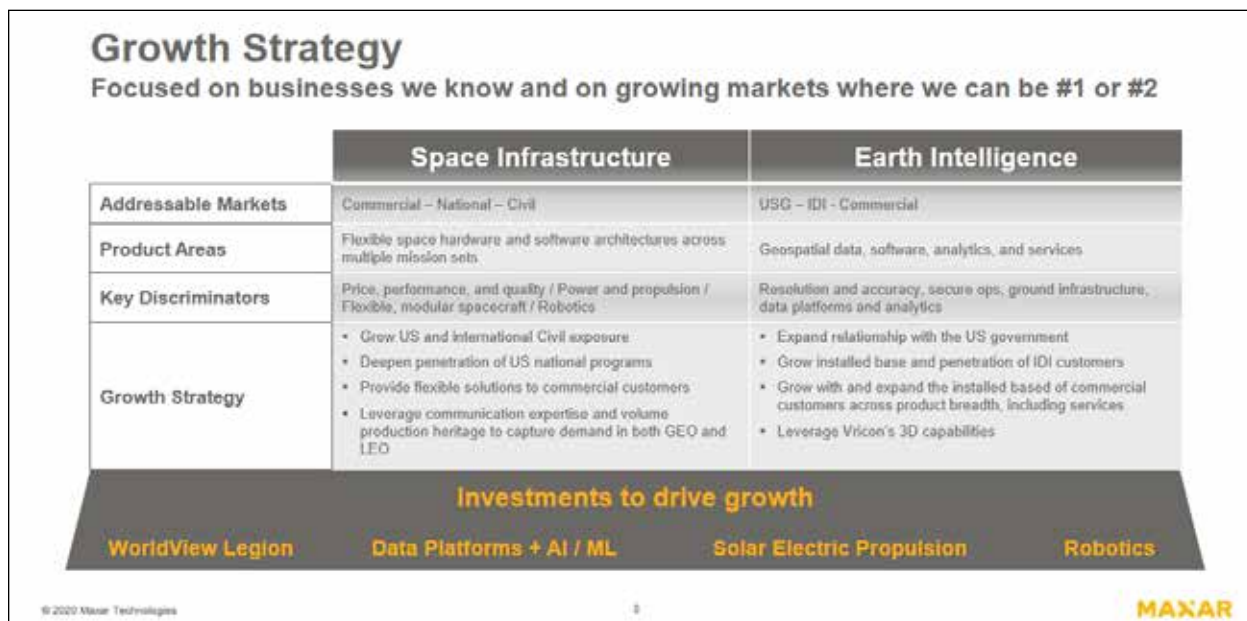
The sixth company on my list, **Maxar Technologies Inc.**, a nearly \$2 billion tech company that works closely with U.S. and Canadian government agencies, as well as a host of private firms.

Maxar is a cornerstone of the national security apparatus.

But it's the company's crucial role in America's crusade to Mars that offers the biggest opportunity for growth.

It's currently building the first components of NASA's Lunar Gateway space station, as one of 11 aerospace companies selected by NASA to work on a lunar lander.

It has built mission-critical parts for the last six U.S. missions to Mars, including the Mars Perseverance rover.



Maxar is a leading provider of advanced space technology solutions. Its major products include satellites, robotics, Earth imagery, geospatial data and analytics services. It serves both government and commercial markets.

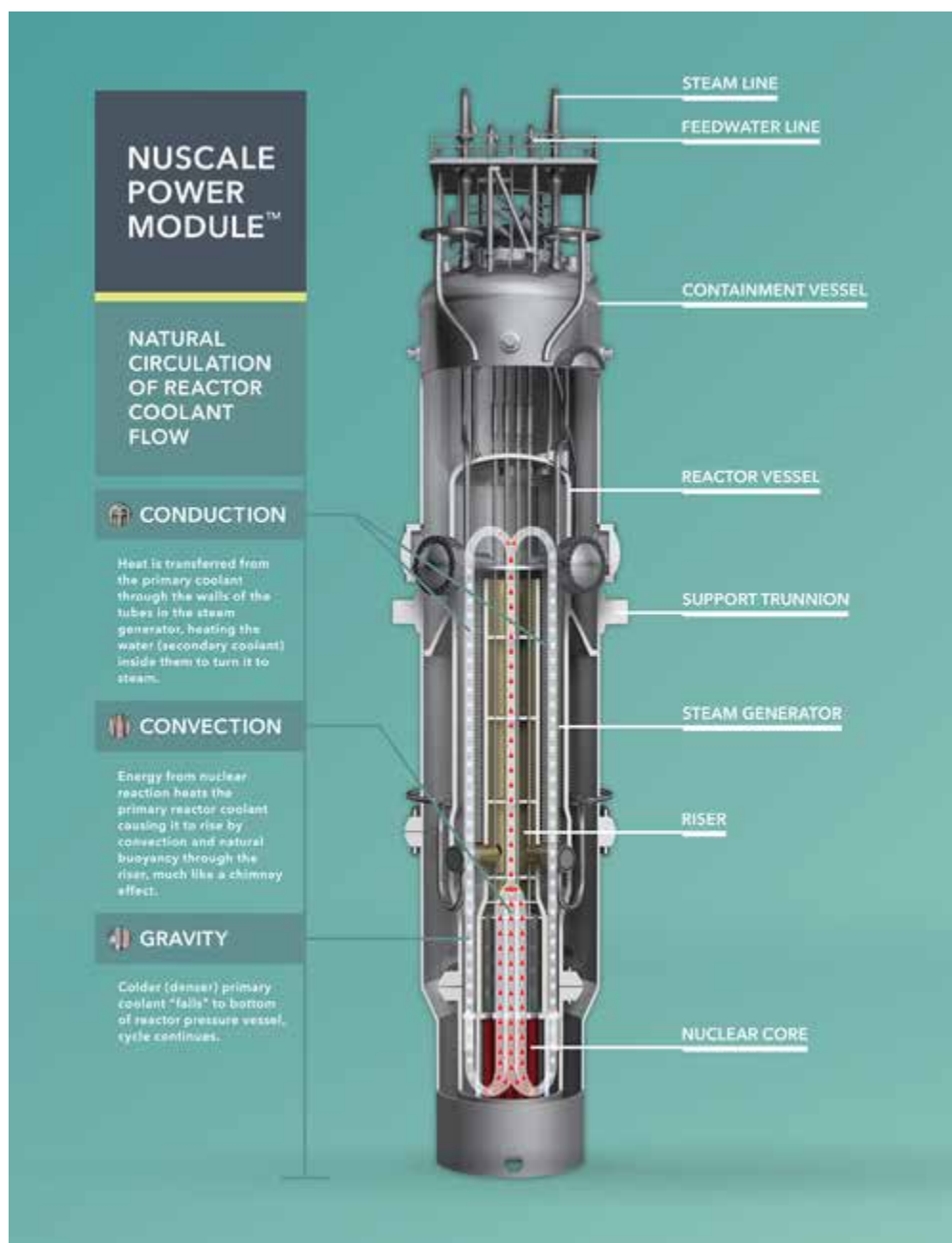
Put all that together and you've got a space tech superstar that's primed to jump several hundred percent before the end of the decade.

No. 7: NuScale Power

To live and work high above the Earth, we're going to need a reliable energy system.

And that's where the next phenomenal company on my space watchlist comes in.

NuScale Power is a private Oregon-based company that designs and markets small nuclear reactors (SMRs), the most realistic form of power we can take to space.



NuScale's light, water-cooling reactors are small — 9 feet by 65 feet — and run on low-enriched uranium fuel.

These next-generation reactors are designed to produce about 60 megawatts of electricity — enough to power nearly 4,000 homes.

In August 2020, the federal Nuclear Regulatory Commission gave NuScale the green light for its first reactor deployment in the mid-2020s.

Because NuScale's mini power plants take less time, materials and space to construct than other power sources, I believe they will be the best solution that will power our life in space.

That makes the company one to watch as the new space race takes off!

No. 8: Relativity Space

There are no gardens in space. No factories. No clothing makers or machine manufacturers.

No. To travel, work and live in space we will have to take everything we'll need with us.

The solution to this problem: space-based 3D-printing **Relativity Space**, headquartered in Long Beach.

Rocket builder Relativity Space — the next on my list of companies to watch — is a leader in the groundbreaking technology of space-based 3D printing.

When we go to space, Relativity Space's technology will allow us to grow, build, create and buy whatever we need — tools, supplies, spare parts, clothes, food and even drugs.

NASA is already using 3D-printing technology to boldly go where no printer has gone before:

- Engineers are creating 3D-printed rocket parts and engine components, as part of the agency's goal of returning to the moon in 2024.
- The first 3D printer was sent to the International Space Station to create parts and equipment in zero gravity. Astronauts recently used it to create a 3D-printed wrench.
- NASA plans to use 3D printers to create supplies to be shipped to the station — such as replacement components, equipment for experiments and even meals.
- NASA has launched a project to build 3D-printed habitats for future space missions, including planned journeys to the moon, Mars and beyond.

With 3D printing, Astronauts will have everything they need right at their fingertips.

No need to wait for NASA to launch more supplies — just create them with a 3D printer and they can make all the supplies they'd need.

And NASA isn't alone: The European Space Agency is working with two 3D-printing companies to build a new base on the moon, using raw materials found on the spot.

That's because the costs for 3D printing have plummeted, as new applications and tech investments are soaring.

And the latest market research projections show the industry will rocket up more than 300% over the next five years, becoming a \$44.4 billion industry by 2025.

Relativity Space is poised to capitalize on this growth.

It is currently building its next-generation Terran 1 rocket. Unlike other rockets, Terran 1 is being built using multiple 3D printers, all developed in-house.

The rocket is designed to have about 95% of its parts 3D printed.

Relativity has some strong financial backers, raising \$140 million last year from such investors as Social Capital, Playground Global, Y Combinator, Bond Capital, Tribe Capital, Jared Leto and Mark Cuban.



Right now, the company's focus is on using 3D printing to build its rockets. Eventually, the company plans to produce an entire compact 3D-printing factory that could be launched — all in one piece — to Mars on one launch vehicle.

In that way, Relativity is building the machines that will build the machines we'll need in space. That's why I see the company's fortunes going sky-high in the coming years.

No. 9: Rocket Lab

The next company on my watchlist, **Rocket Lab**, is a private American aerospace manufacturer and small satellite launch service provider.

I see Rocket Lab as a prime creator of the new space infrastructure that the space industry will need.

It has developed two orbital rockets — named Atea and Electron — that can ferry small satellites and miniaturized cube satellites into space, like the old railway freight trains of the past.

These low-cost rockets run less than \$5 million per launch — a fraction of the cost of typical rocket launches over the past few decades.

These tiny satellites — so small you can hold them in your hand — can be used for all kinds of services, from Earth observation to communications to radio transmission.

In 2018, the company created its first reusable rocket. And earlier this year, the company acquired Sinclair Interplanetary, a Canadian manufacturer of components for small satellites to expand its footprint.

Rocket Lab plans to use Sinclair's technology of small "satellite buses," and help Sinclair increase production of small satellite components for sale to other firms.

So, I believe Rocket Lab will be a workhorse that will help create the new infrastructure that the space industry will need — what I call "Infrastructure 2.0."

It will help develop what will become the 21st century's answer to the rail lines, highways and public transportation systems that helped build America in the 19th and 20th centuries.

That's why I'm keeping a close eye on Rocket Lab as the space industry rises.

No. 10: Orion Span

Imagine seeing 16 sunsets and sunrises in one day. Or playing ping pong in zero gravity. Or taking photos of your hometown — from 200 miles up.

As early as 2022, that could all be possible thanks to the last company on my top 10 watchlist: **Orion Span**.

This privately funded California-based space technology startup is developing the world's first luxury space hotel, Aurora Station.

When it opens to tourists two years from now, you'll be able to book a 12-day vacation to the hotel.

It will be costly at first — \$9.5 million — per trip.

But it will offer an out of this world experience and, I believe, pave the way for a new space-based tourism industry.

I, for one, can't wait for the opportunity to be one of Aurora Station's first visitors. How about you?

Just imagine what a space vacation would be like. It's mind-blowing to think of how the space hotel will change tourism forever.

When fully operational, Aurora will orbit the Earth, hosting six people at a time — two crew members and four tourists — for 12-day space tours.

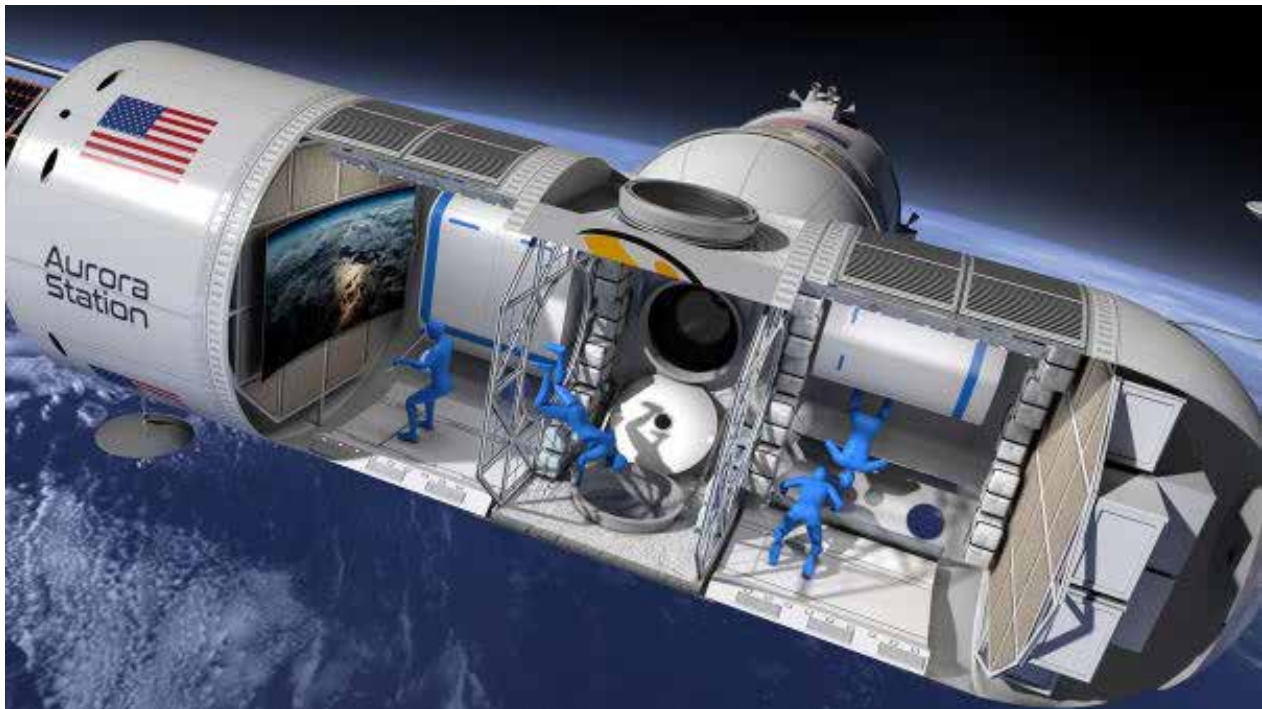
And I'm not talking about an experience that is many years into the future. In fact, Orion Span plans to launch the station in 2021 and welcome its first guests just a year later.

Although the initial coast of a trip to Aurora is a budget buster for most of us, I believe the cost will eventually come down, putting it in reach for many people.

After a three-month training program, Aurora visitors will fly 200 miles above the Earth, taking in incredible views of the blue planet and offering everyday folks an authentic astronaut experience.

The hotel will orbit the Earth every 90 minutes, which means guests have the opportunity to witness 16 sunrises and sunsets every 24 hours.

On board, travelers will take part in research experiments, such as growing food in a "hydroponic garden," and even take home what they grow as a souvenir.



SOURCE: Orion Span

There's also zero gravity ping pong and the ability to conduct live video chats with the folks back home, via high-speed wireless Internet.

To round out the experience, Aurora visitors will be treated to a hero's welcome when they return to Earth.

In some ways, Aurora is the most eye-popping example of the promise, potential and profitability of the new space industry.

But as my top 10 watchlist indicates, in-orbit tourism is only one aspect of the new space economy.

This list encompasses nearly every technology we'll need to get to space, create a habitat on the moon, fly to Mars and beyond.

That includes rocket-makers, satellite system developers, space-based communications innovators, life-support and habitat specialists, 3D-printing companies, and new-power plant makers.

As I mentioned, some of these companies are private. But as the space economy grows, I believe many will go public, giving us the chance to invest as the industry takes flight.

As that happens in the years ahead, I will be keeping an eye on all of these companies for you — and continue to look up to the sky!

Regards,

A handwritten signature in black ink, appearing to read 'Paul Mampilly', with a long horizontal flourish extending to the right.

Paul Mampilly
Editor, *Profits Unlimited*



Banyan Hill

P.O. Box 8378

Delray Beach, FL 33482 USA

USA Toll Free Tel.: (866) 584-4096

Email: <http://banyanhill.com/contact-us>

Website: www.banyanhill.com

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