US Stock Express

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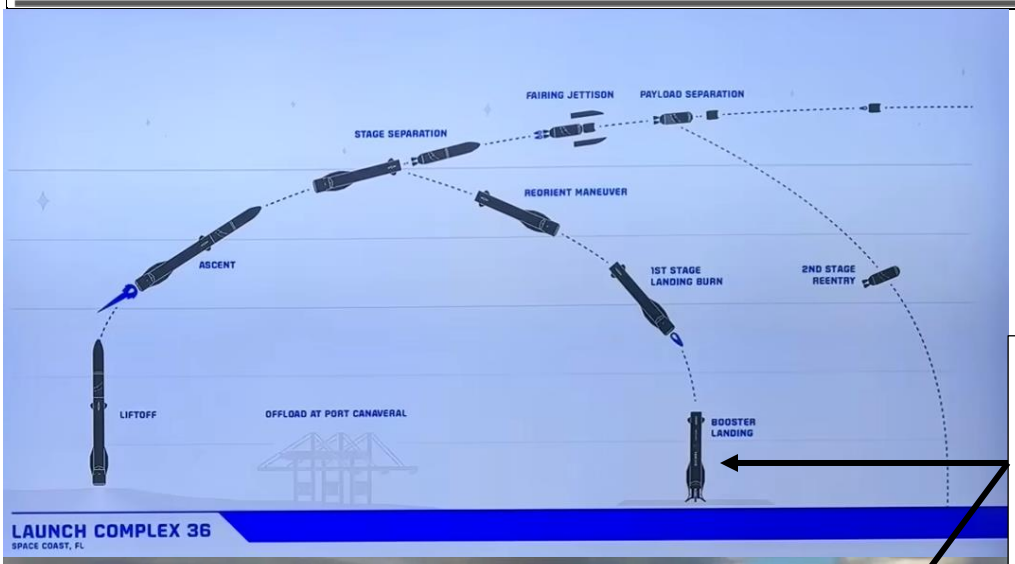
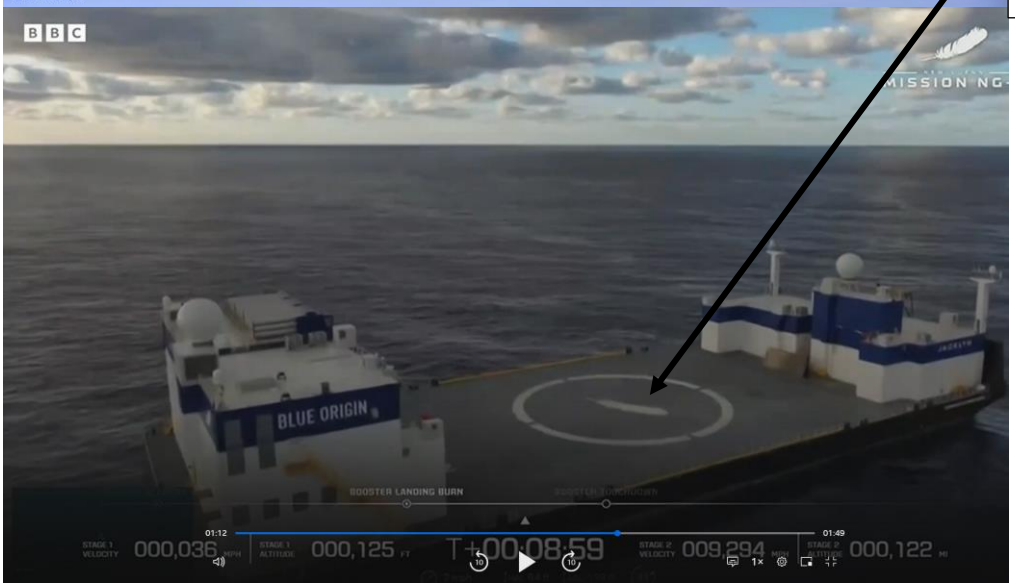




Blue Origin

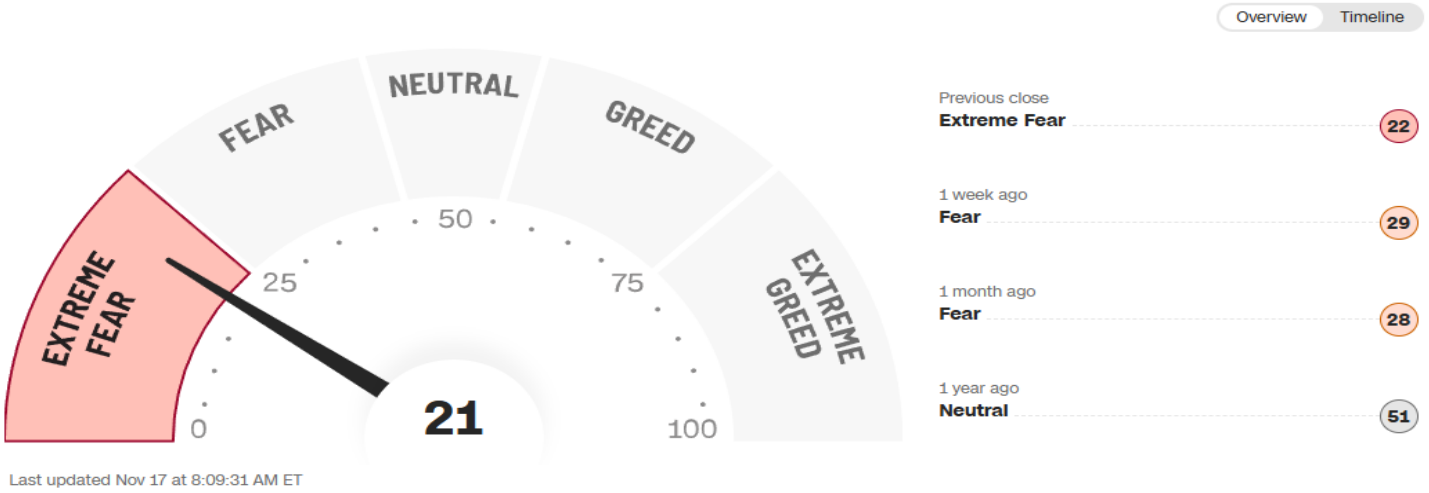
Successfully re-captured the reusable rocket on a floating pad

Blue Origin, the space company owned by Jeff Bezos, has successfully launched its New Glenn rocket from Florida.
The rocket was carrying two Nasa spacecraft deployed towards Mars. The Escapade satellites will take 22 months to reach Mars and will orbit the planet to measure its atmosphere and magnetic field.
The reusable booster powering New Glenn also separated from the rocket's upper stage and touched down on a floating landing pad in the Atlantic Ocean, in a successful first for Blue Origin.
[Blue Origin rocket successfully lands booster during launch]

Risk disclosure: Price can go up and down at any moment, use free money to trade and bear the risk according to your own capital;
Never trade with money that has a deadline for withdrawal.
All suggestions are for reference only, even AI cannot be 100% reliable, final decision still lies upon investors.
Copy trading cannot replicate another trader's background or psychological state.

Fear & Greed Index

What emotion is driving the market now?
Learn more about the index



North East West South is *NEWS*

Elon Musk, the world's richest man, issued a public warning over the weekend to Microsoft co-founder and former world's richest man Bill Gates, urging him to "speed up" his nearly eight-year-long short position in Tesla (TSLA). This move once again brought the long-standing feud between the two tech giants into the public eye. Elon Musk has expressed continued dissatisfaction with Bill Gates' long-term shorting of Tesla stock, pointing out that Gates' choice to short the company at a critical juncture in Tesla's development has undermined the confidence of ordinary investors.

JPMorgan analysts recently released a report confirming that Bitcoin's price has bottomed out and predicting that by 2026, Bitcoin will pose a substantial challenge to gold's massive market capitalization. Currently, gold's market capitalization has surged to $28.3 trillion, compared to Bitcoin's $1.9 trillion. JPMorgan analysts believe this significant difference means Bitcoin has considerable upside potential in the next 6 to 12 months.

Official Japanese data released today showed that the Japanese economy contracted by 0.4% in the quarter ending in September. This comes as newly appointed Prime Minister Sanae Takaichi is drafting a large-scale economic stimulus package. Finance Minister Satsuki Katayama stated yesterday that the package would be "far exceeding" 17 trillion yen. The cabinet is expected to approve the plan on the 21st.

Authorities at Aalborg Airport in northern Denmark reported that the airport was temporarily closed for several hours last night due to drone activity in nearby airspace, marking the latest in a series of unidentified drone intrusions in Europe.

AFP, citing sources from French President Macron's office, reported that Ukraine has signed a letter of intent to purchase up to 100 Dassault Rafale fighter jets. The agreement comes as Ukrainian President Zelensky is visiting France.

World Observation

Day 1364
Russia/Ukraine Conflict

Blue Origin & Mars Landing

On November 13, 2025 Blue Origin launched its first NASA mission, ESCAPADE, deploying two NASA science satellites to study Mars' atmosphere. The company utilized its New Glenn rocket and successfully landed the booster on a barge Landing_Platform_Vessel_1 named Jacklyn_(ship) in the Atlantic Ocean.

Why Blue Origin is so famous? The founder Jeff Bezos is also the founder of AMZN, one of the Magnificent Seven stocks. Blue Origin has a subsidiary which is Honeybee Robotics, for exploration of Mars and deep space. In 2021, the reusable rocket New Shepard completed its first crewed mission with Bezos himself on board, crossing the Kármán line, the conventional definition of the edge of space, 100 kilometers (62 mi) above sea level. This made space travel is a high-tech commercial flight for billionaires. On April 14, 2025, Blue Origin completed its 11th human spaceflight and its 31st spaceflight for the New Shepard Program with an all-female crew of six.

Even the development of Blue Origin is so fast, even faster than China, but still 10 years left behind by SpaceX. Elon Musk is really a superman; it is he that had an idea of reusable rocket. At first, he flew to Russia and wished to ask them to send the satellite for him. On his way back, he found the cost was so enormous, for all rockets could only use once. Thus, he generated an idea of reusable rocket which at most can save 99% of the cost. So that’s why his Starlink is so successful.

Anyway, in reusable rockets, Elon Musk is the champion, Jeff Bezos is first runner-up and China second runner-up. Musk and Bezos are also assigned by NASA to carry out certain steps for Mars Landing. NASA remains the chief institution but the effort of Musk and Bezos are also significant.

Even though SpaceX is said to be leading Blue Origin for 10 years, but the latter is chasing near now, and keen competition will occur. Even though the Mars Landing project will come true in 2030, but relevant stocks will be very hot far before those days. But a lot of them are already in higher positions owing to the trend of AI and technology stocks. The Artemis Project is going on furiously, but nowadays not yet aware by the market, better prepare well before it is too late.

For Billionaire Space race among Jeff Bezos's Blue Origin, Richard Branson's Virgin Group and Elon Musk's SpaceX, Please refer to the following:

Billionaire space race - Wikipedia

This will be a competition for several decades and would not like the Appollo Project ended just a few years after Moon Landing.

Besides the space project, please mind that it would bring us extra bonus, such as the Starlink is one of the best examples. A lot of downstream industries will be befitted.

For Mars Landing stocks, please refer to the Express on 20250703 and 20250707. A lot of them are quite high now, so take chance to buy at low when adjustment comes. Don’t wait for 2030 to buy, it will be too late.

SpaceX pioneered orbital reusable rockets in 2015, Blue Origin followed with suborbital landings (2015) and now orbital recovery (2025), China's *Space Epoch* achieved its first sea-based recovery in 2025, and CASC is targeting maiden flights of reusable Long March variants in 2025–26. For investors, the Artemis-driven "space race" highlights stocks like **Boeing, Lockheed Martin, Northrop Grumman, SpaceX (private), Maxar, and L3Harris** as key beneficiaries of reusable launch and lunar infrastructure.

🚀 Timeline of Reusable Rocket Milestones

Year	Company	Rocket	Milestone
2015 (Dec)	**SpaceX**	Falcon 9	First successful orbital booster landing at Cape Canaveral (LZ-1).
2016–present	SpaceX	Falcon 9	Regular landings on drone ships ("Of Course I Still Love You"), >250 successful recoveries.
2020s	SpaceX	Starship	Ongoing development of fully reusable heavy-lift system for Mars/Artemis support.
2015 (Apr)	**Blue Origin**	New Shepard	First vertical landing of a suborbital rocket.
2015–2025	Blue Origin	New Shepard	30+ successful tourist flights, reusable suborbital system.
2025 (Nov)	Blue Origin	New Glenn	First orbital-class booster recovery at sea on *Jacklyn* barge, carrying NASA payloads toward Mars.
2025 (May)	**Space Epoch (China)**	Yuanxingzhe -1 (Hiker-1)	First successful sea-based vertical landing of a reusable rocket in China.
2025–26 (planned)	**CASC (China Aerospace Science & Technology Corp.)**	Long March 10 (new-gen)	Maiden flights of 4m and 5m diameter reusable rockets, targeting crewed missions and cost-effective launches.

📈 Investment Angle – Artemis & the Reusable Rocket Race

Reusable rockets are not just engineering marvels—they're **capital efficiency machines**. Lower launch costs unlock satellite constellations, lunar logistics, and Mars missions. For investors, the Artemis program and global competition point to several categories:

- **Prime Contractors (Artemis & SLS):**
  - **Boeing (BA):** Core contractor for NASA's Space Launch System (SLS). Benefiting from Artemis II milestones. [1] [2]
  - **Lockheed Martin (LMT):** Orion spacecraft prime contractor.
  - **Northrop Grumman (NOC):** Solid rocket boosters and deep-space systems.
- **Commercial Launch & Infrastructure:**
  - **SpaceX (private):** Not publicly traded, but its Starlink spinoff may IPO in future.
  - **Blue Origin (private):** Still private, but partnerships with NASA and commercial payloads matter.
  - **Maxar Technologies (MAXR):** Gateway propulsion and lunar infrastructure.
  - **L3Harris (LHX):** Communications and defense systems tied to Artemis.
- **Emerging Chinese Players:**
  - *Space Epoch* (private startup, not listed).
  - **CASC** (state-owned, not directly investable, but suppliers may be accessible via Chinese markets).

🧭 Strategic Investor Takeaway

- **Near-term:** Boeing, Lockheed Martin, Northrop Grumman, Maxar, L3Harris—all tied to Artemis and reusable launch infrastructure.
- **Medium-term:** Watch for **SpaceX Starlink IPO** and possible **Blue Origin spinoffs**.
- **Long-term:** Chinese commercial space firms (Space Epoch, iSpace, Galactic Energy) could open IPOs as Beijing accelerates private-sector space.

Reusable rockets are the **cost-reduction backbone** of the Artemis-era lunar economy. Investors should think in terms of **launch cadence, payload economics, and infrastructure build-out** rather than just headline landings.

Would you like me to build a **risk/reward matrix** comparing SpaceX, Blue Origin, and China's players—highlighting regulatory risk, tech maturity, and capital access? That would give a sharper investment lens.

Timeline of Reusable Rockets

Below is a compiled timeline of key milestones in reusable rocket development for each organization, focusing on reusability aspects like vertical takeoff and landing (VTOL), booster recovery, and reuse flights. These are based on historical and recent developments up to November 2025. I've organized them chronologically in tables for clarity.

SpaceX (Elon Musk)

SpaceX has been a pioneer in reusable rockets, starting with the Falcon family and evolving to Starship. Key focus: Achieving routine booster landings on land and drone ships.

Year	Milestone
2008	Falcon 1 becomes the first privately developed liquid-fueled rocket to reach orbit (September 28). This laid groundwork for reusable tech. consensus.app
2012	Starship (initially called Mars Colonial Transporter) begins conceptual development as a fully reusable system. timelines.issarice.com
2014	First experimental landing attempts with Falcon 9; includes legs for soft landing. newsweek.com
2015	First successful ground landing of Falcon 9 booster (December 21) after orbital mission. spacex.com
2016	First drone ship landing in the Atlantic (April 8) on "Of Course I Still Love You." qz.com
2017	First reuse of a Falcon 9 booster (March 30) for SES-10 mission; also first fairing recovery attempt. qz.com
2018	Falcon Heavy debuts (February 6) with side boosters landing successfully; central core attempt fails. space.com
2020	Starship prototype hops begin; SN5 achieves 150m hop (August). officetimeline.com
2023	Starship's first integrated flight test (April); multiple test flights follow with partial successes. youtube.com
2024-2025	Routine Falcon 9 reuses exceed 20 flights per booster; Starship achieves first full orbital test and catch (2024-2025). interestingengineering.com

Blue Origin (Jeff Bezos)

Blue Origin focuses on suborbital (New Shepard) and orbital (New Glenn) reusability. The recent November 13, 2025, landing of New Glenn's booster on a drone ship in the Atlantic marks a major step, following the launch of NASA's ESCAPADE Mars mission.

Year	Milestone
2015	New Shepard achieves first VTOL (November 23): Suborbital flight and booster landing. en.albat.com
2016	New Shepard reuse: Booster flies five times successfully. en.albat.com
2021	First crewed New Shepard flight (July 20) with Jeff Bezos; reusable booster used. en.albat.com
2024	New Glenn development ramps up; static fire tests for reusable first stage. nasaspaceflight.com
2025 (Early)	New Glenn certification flight; initial reusable booster tests. arstechnica.com
2025 (November 13)	New Glenn NG-2 mission launches ESCAPADE to Mars; first successful booster landing on drone ship "Jacklyn" in the Atlantic Ocean. blueorigin.com +2 more

Space Epoch (China)

A private Chinese startup, Space Epoch is rapidly advancing methane-fueled reusable rockets like Yuanxing-1 (also called Yuanxinghe-1), inspired by SpaceX's model.

Year	Milestone
2024 (March)	Announces collaboration with Taobao for reusable rockets in express delivery. en.wikipedia.org
2025 (May 28-29)	Successful hop test of Yuanxing-1 prototype with Longyun methane engine; VTOL achieved. china-in-space.com goldsea.com
2025 (June 3)	Yuanxing-1 soft-lands in the ocean during recovery test, marking reusability progress. universetoday.com +2 more
2025 (July)	Additional tests; plans for up to three flights of 4.5m-diameter rocket. nasaspaceflight.com youtube.com
2025-2026	Aims for 12 flights, including first booster reuse. nasaspaceflight.com

China Aerospace Science and Technology Corporation (CASC)

As China's state-owned space giant, CASC is shifting Long March rockets toward reusability, with projects like Long March 8R and Long March 9.

Year	Milestone
2022 (September)	First flight test of a domestically developed reusable rocket prototype. globaltimes.cn
2024 (June)	Advanced reusability test with 3.8m-diameter rocket using liquid oxygen-methane engines. bricsglobal.tv
2024 (December)	Completes development of reusable engine in seven months. english.spacechina.com
2025 (January)	Tests five rocket engines in one day for future reusable missions. space.com facebook.com
2025 (March)	Breakthrough in reusable launch vehicle engine technology; ready for delivery. in4u.org
2025 (May)	Completes testing of heavy reusable liquid rocket engine. english.spacechina.com
2025-2026	Debuts large reusable rockets like Long March 10 (crew version) and reusable Long March 9 first stage; aims for 10 reuses by 2025 on Long March 8. defenseone.com spacenews.com

Stock Recommendations for Investors Interested in the Space Race (e.g., Artemis Program to Mars)

The space race, including NASA's Artemis program (aiming for sustainable Moon presence by the late 2020s and Mars missions in the 2030s), involves public-private partnerships. SpaceX and Blue Origin are private, so direct investment isn't possible, but many related companies are publicly traded. Focus on those with Artemis contracts or space tech exposure. These are not financial advice—consider market risks, diversification, and consult professionals. I've prioritized "pure-play" space stocks (50%+ revenue from space) and larger aerospace firms involved in Artemis.

Stock Ticker	Company	Why Recommend?	Artemis/Mars Relevance
RKLB	Rocket Lab USA	Pure-play rocket launcher with reusable Neutron rocket in development; frequent launches and satellite tech. investorplace.com +2 more	Supports Artemis via NASA contracts for lunar missions and propulsion.
LUNR	Intuitive Machines	Lunar lander specialist; successful Moon landing in 2024. investorplace.com tsginvest.com	Key Artemis partner for cargo and rover deliveries to the Moon as a Mars precursor.
RDW	Redwire	Provides space infrastructure like solar arrays and robotics. investorplace.com tsginvest.com	Supplies components for Artemis vehicles and habitats.
PL	Planet Labs	Earth observation satellites; expanding to space data services. investorplace.com	Data supports Mars mission planning and Artemis site selection.
LMT	Lockheed Martin	Builds Orion spacecraft for deep space. finance.yahoo.com +2 more	Prime contractor for Artemis Orion capsule; Mars habitat tech.
NOC	Northrop Grumman	Develops solid rocket boosters and habitats. reddit.com flypix.ai	Artemis SLS boosters; HALO module for Gateway station en route to Mars.
BA	Boeing	SLS rocket core stage and Starliner crew vehicle. finance.yahoo.com flypix.ai	Core Artemis launch vehicle (SLS); potential Mars transfer tech.
RTX	RTX (Raytheon)	Satellites, sensors, and propulsion. reddit.com	Artemis navigation and comms systems.

For broader exposure, consider ETFs like ARKX (ARK Space Exploration & Innovation ETF) or UFO (Procure Space ETF), which hold mixes of these stocks. Chinese firms like Space Epoch or CASC aren't directly tradable on U.S. exchanges, but global ETFs may offer indirect exposure via aerospace indices. fool.com