

CIENCIA Y TECNOLOGÍA

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By BYLINE

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## New Rockets

NASA got its giant Space Launch System off the ground for the first time in 2022, lighting up the night in Florida with an incredible stream of flame as it carried the Artemis I mission toward the moon. That shifted attention to SpaceX, which is building a next-generation rocket, Starship, that is also central to NASA's crewed Artemis III moon landing attempt. SpaceX cleared a key environmental review that would allow it to launch an uncrewed orbital test flight from South Texas if it met certain conditions. But the rocket wasn't ready for flight in 2022. The company has not announced a date for a test this year, but regular ground tests of Starship equipment indicate it is

working toward one. Numerous other rockets may take flight for the first time in 2023. The most important, Vulcan Centaur by United Launch Alliance, will eventually replace that company's Atlas V, a vehicle central to American spaceflight for two decades. (Below, a pathfinder for the Vulcan.) The Vulcan relies on the BE-4 engine built by Blue Origin, the rocket company Jeff Bezos founded. A number of American private companies are expected to test new rockets in 2023, including Relativity and ABL. They could be joined by foreign rocket makers, including Mitsubishi Heavy Industries, which could test Japan's H3 rocket in February, and Arianespace, working toward a test flight of Europe's Ariane 6 rocket.

## New Planetary Missions

A new spacecraft will head toward Jupiter this year, aiming to become the first to orbit another planet's moon. The European Space Agency's Jupiter Icy Moon Explorer, or JUICE, will launch from an Ariane 5 rocket as early as April 5 to set off to the Jovian system, arriving in 2031. Once it reaches the gas giant, it will move to conduct 35 flybys of three of the giant world's moons: Callisto, Europa and Ganymede, all of which are believed to have subsurface oceans. In 2034, JUICE will begin orbiting Ganymede, the largest moon in the solar system. Heading closer to the sun will be Rocket Lab, a small launch company founded in New Zealand. It aims to use its Electron rocket to send a mission to Venus. The company's Photon satellite will try to deploy a small probe, built with Massachusetts Institute of Technology researchers, that will briefly study the planet's toxic atmosphere. The mission was planned for May, but it is expected to face delays while the company prioritizes missions for its other customers.



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## New Lunar Landings

We're guaranteed at least one lunar landing attempt in 2023. A Japanese company, Ispace, launched its M1 mission on a SpaceX rocket in December. It's taking a slow, fuel-efficient route to the moon and is set to arrive in April, when it will try to deploy a rover built by the United Arab Emirates, a robot built by Japan's space agency, JAXA, as well as other payloads. There could be as many as five more lunar landing attempts this year. NASA has hired a pair of private companies to carry payloads to the lunar surface. Both of them, Intuitive Machines of Houston and Astrobot Technology of Pittsburgh, faced delays in 2022 but may make the trip in the coming months. They could be joined by three government space programs' lunar missions. India's Chandrayaan-3 mission was de-



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layed last year but could be ready in 2023. A Japanese mission, Smart Lander for Investigating Moon, or SLIM, aims to test the country's lunar landing technologies. Finally, Russia's Luna-25 mission was postponed from last September, but Roscosmos, the Russian space agency, may try this year.

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