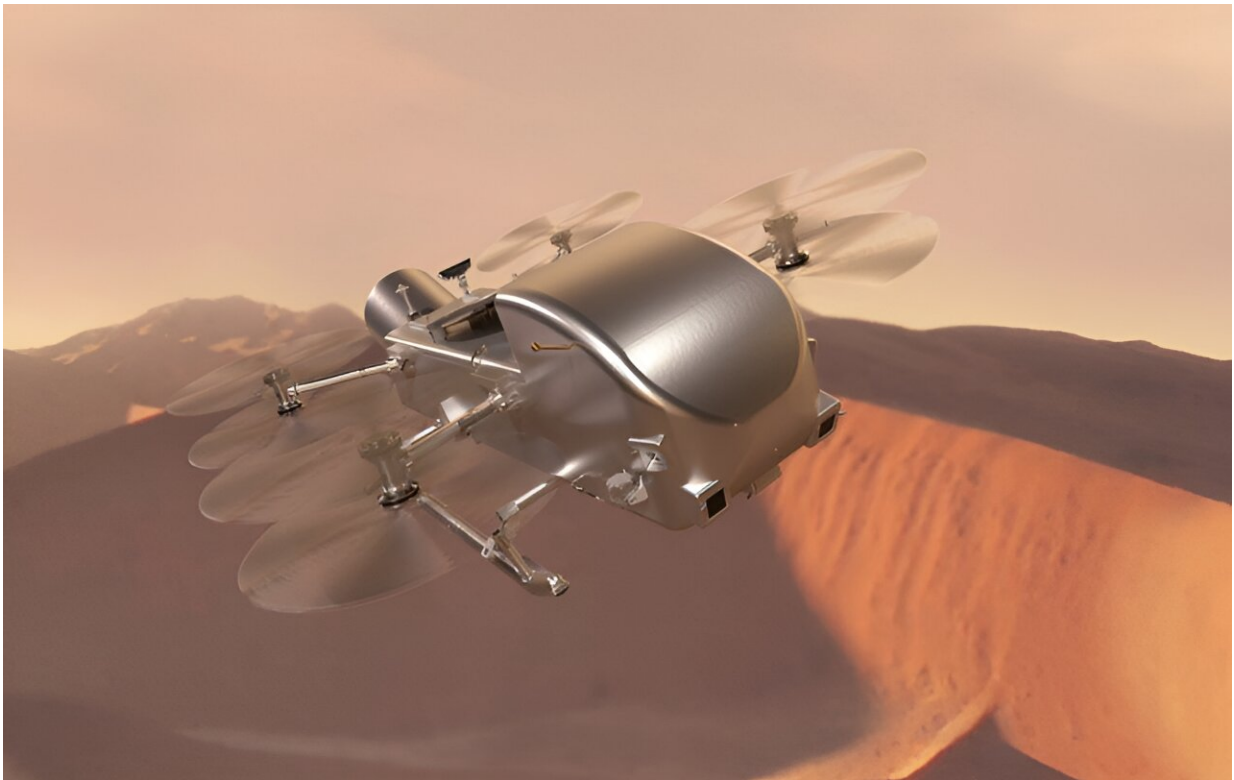


NASA's Dragonfly rotorcraft mission to Saturn's moon Titan confirmed

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Artist's concept of Dragonfly soaring over the dunes of Saturn's moon Titan.
Credit: NASA/Johns Hopkins APL/Steve Gribben

NASA has confirmed its Dragonfly rotorcraft mission to Saturn's organic-rich moon Titan. The decision allows the mission to progress to the completion of the final design, followed by the construction and

testing of the entire spacecraft and science instruments.

"Dragonfly is a spectacular science mission with broad community interest, and we are excited to take the next steps on this mission," said Nicky Fox, associate administrator of the Science Mission Directorate at NASA Headquarters in Washington. "Exploring Titan will push the boundaries of what we can do with rotorcraft outside of Earth."

In early 2023, the mission successfully passed all the success criteria of its Preliminary Design Review. At that time, however, the mission was asked to develop an updated budget and schedule to fit into the current funding environment. This updated plan was presented and conditionally approved in November 2023, pending the outcome of the fiscal year 2025 budget process. In the meantime, the mission was authorized to proceed with work on final mission design and fabrication to ensure that the mission stayed on schedule.

With the release of the president's [fiscal year 2025 budget request](#), Dragonfly is confirmed with a total lifecycle cost of \$3.35 billion and a launch date of July 2028. This reflects a cost increase of about two times the proposed cost and a delay of more than two years from when the mission was originally selected in 2019.

Following that selection, NASA had to direct the project to replan multiple times due to funding constraints in fiscal years 2020 through 2022. The project incurred [additional costs](#) due to the COVID-19 pandemic, [supply chain](#) increases, and the results of an in-depth design iteration. To compensate for the delayed arrival at Titan, NASA also provided additional funding for a heavy-lift launch vehicle to shorten the mission's cruise phase.

The rotorcraft, targeted to arrive at Titan in 2034, will fly to dozens of promising locations on the moon, looking for prebiotic chemical

processes common on both Titan and the early Earth before life developed. Dragonfly marks the first time NASA will fly a vehicle for science on another planetary body. The rotorcraft has eight rotors and flies like a large drone.

Provided by NASA

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