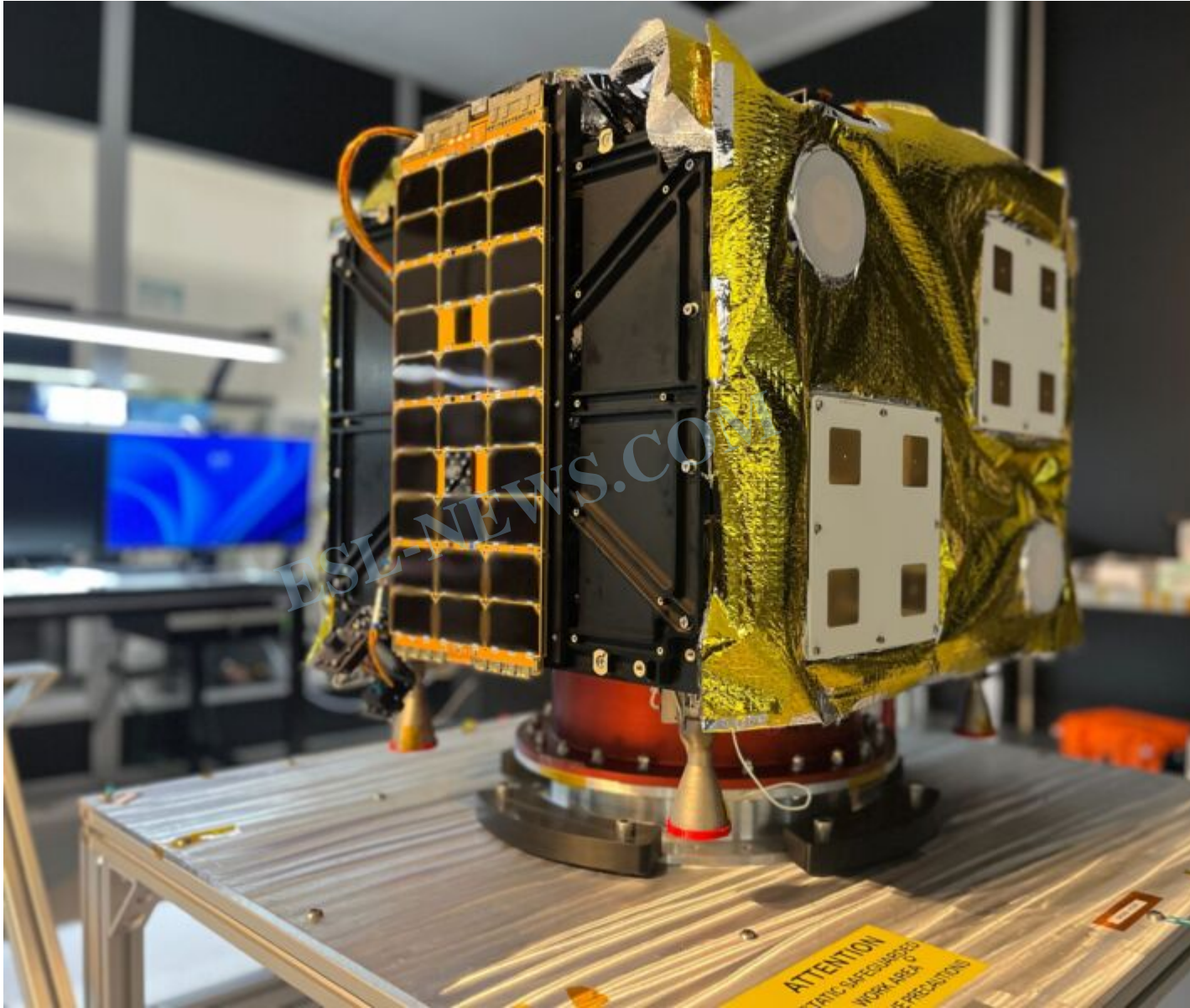


## Asteroid mining company defies odds for success

### Description



[Enlarge](#) / The Odin spacecraft passed vibration testing.

Astro Forge

When I first conversed with space entrepreneurs Jose Acain and Matt Gialich over two years ago, I pondered whether our paths would cross again.

Engaging in asteroid mining, their venture, AstroForge, is a risky endeavor. While NASA has only brought back rocky material from asteroids, the Psyche mission, set for 2029, aims to change that. Despite the challenges, Acain and Gialich recently secured \$40 million in Series A funding for AstroForge, paving the



way for their upcoming missions.

Following the setback of the Brokkr-1 cubesat mission, AstroForge is gearing up for the launch of Odin, a spacecraft set to explore a metal-rich asteroid. Despite facing hurdles during testing, the team remains resilient, adapting their approach to ensure success.

The company also unveiled plans for Vestri, a larger spacecraft intended to dock with the targeted asteroid, marking a significant milestone in private space exploration.

AstroForge's ambitions extend far beyond Earth, as they aim to unlock the potential of near-Earth asteroids rich in metals, paving the way for future extraterrestrial resource utilization.

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## Vocabulary List:

1. **Entrepreneurs** /ˌɒn.trə.prəˈnɜːr/ (noun): Individuals who start and run their own businesses taking on financial risks to do so.
2. **Endeavor** /ɪnˈdeɪvər/ (verb/noun): To try hard to achieve something; an attempt to achieve a goal.
3. **Exploration** /ˌɛkspləˈreɪʃən/ (noun): The action of traveling in or through an unfamiliar area to learn about it.
4. **Resilient** /rɪˈzɪl.jənt/ (adjective): Able to withstand or recover quickly from difficult conditions.
5. **Utilization** /ˌjuː.tɪ.laɪˈzeɪ.ʃən/ (noun): The action of making practical and effective use of something.
6. **Ambitions** /æmˈbɪʃənz/ (noun): A strong desire to do or achieve something typically requiring determination and hard work.

## Comprehension Questions

### Multiple Choice

1. Who are the space entrepreneurs mentioned in the text?

Option: Jose Acain and Matt Gialich  
Option: Elon Musk and Jeff Bezos  
Option: Mark Zuckerberg and Bill Gates  
Option: Tim Cook and Sundar Pichai

2. What is the name of the spacecraft set to explore a metal-rich asteroid?

Option: Odin  
Option: Vestri  
Option: Brokkr-1



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Option: Psyche

3. How much funding did Acain and Gialich secure for AstroForge?

- Option: \$10 million
- Option: \$40 million
- Option: \$100 million
- Option: \$200 million

4. What is the name of the larger spacecraft intended to dock with the targeted asteroid?

- Option: Odin
- Option: Psyche
- Option: Vestri
- Option: Brokkr-1

5. What is the main focus of AstroForge's ambitions beyond Earth?

- Option: Asteroid mining
- Option: Satellite deployment
- Option: Rocket technology
- Option: Deep space exploration

6. What mission by NASA aims to change the type of material brought back from asteroids?

- Option: Psyche mission
- Option: Odin mission
- Option: Brokkr-1 mission
- Option: Vestri mission

## Answer

**Multiple Choice:** 1. Jose Acain and Matt Gialich 2. Odin 3. \$40 million 4. Vestri 5. Asteroid mining 6. Psyche mission

## Vocabulary quizzes

**Multiple Choice ( Select the Correct answer for each question. )**

1. Which term refers to a hostile disagreement or face-off between individuals or groups?

- Option: A) Confrontation
- Option: B) Therapy



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- Option: C) Exploration  
Option: D) Well-being
2. Which term relates to mental processes such as thinking reasoning and problem-solving?  
Option: A) Correlate  
Option: B) Cognitive  
Option: C) Independence  
Option: D) Duration
3. Which term refers to the state of being free from external control or support?  
Option: A) Innovative  
Option: B) Independance  
Option: C) Exertion  
Option: D) Signifying
4. Which term means to make the best or most effective use of a situation or resource?  
Option: A) Utilization  
Option: B) Optimize  
Option: C) Resilient  
Option: D) Peculiar
5. Which term describes an option or choice that can be substituted for another?  
Option: A) Alternative  
Option: B) Territorial  
Option: C) Acidity  
Option: D) Gameplay
6. Which term refers to the specific way in which players interact with a game?  
Option: A) Pneumonia  
Option: B) Gameplay  
Option: C) Ambitions  
Option: D) Cease
7. Which term refers to the treatment of physical or psychological disorders?  
Option: A) Electrolyte  
Option: B) Therapy  
Option: C) Duration  
Option: D) Engaged
8. Which term means introducing new ideas methods or products?  
Option: A) Inception  
Option: B) Innovation  
Option: C) Transitional
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Option: D) Microtransactions

9. Which term refers to small in-game purchases made with real money?

Option: A) Duration

Option: B) Microtransactions

Option: C) Cease

Option: D) Correlate

10. Which term describes strong desires and determination to achieve success?

Option: A) Transition

Option: B) Optimize

Option: C) Ambitions

Option: D) Adaptive

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. Efficient \_\_\_\_\_ of resources is essential for sustainable development.

12. The movie had a running \_\_\_\_\_ of over two hours.

13. She proved to be \_\_\_\_\_ in the face of adversity bouncing back from challenges.

14. Physical \_\_\_\_\_ during the gym session left him feeling exhausted.

15. Studies show a direct \_\_\_\_\_ between regular exercise and improved health.

16. Animals often display \_\_\_\_\_ behavior when protecting their nesting sites.

17. The antique clock had a \_\_\_\_\_ design unlike any other in the collection.

18. The doctor advised reducing the consumption of foods high in \_\_\_\_\_ to improve digestion.

19. She made a conscious \_\_\_\_\_ to learn a new language over the summer.

20. The heavy rainfall caused the river to \_\_\_\_\_ its banks leading to flooding.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The audience was fully in the riveting storyline of the movie.



|   |
|---|
| 22. The of the idea can be traced back to a brainstorming session last year.          |
| 23. The company prides itself on its approach to product development.                 |
| 24. The team is currently in a period of as they switch focus to a new project.       |
| 25. The workshop aimed to inspire young to pursue their business ideas.               |
| 26. Regular exercise and a balanced diet are essential for maintaining good .         |
| 27. The species showed remarkable traits in response to changes in their environment. |
| 28. The team set out on an exciting of the uncharted territory.                       |
| 29. The elderly patient was hospitalized due to severe and respiratory distress.      |
| 30. His grand led him to establish a successful business empire.                      |

## Answer

**Multiple Choice:** 1. A) Confrontation 2. B) Cognitive 3. B) Independence 4. B) Optimize 5. A) Alternative  
6. B) Gameplay 7. B) Therapy 8. B) Innovation 9. B) Microtransactions 10. C) Ambitions

**Gap-Fill:** 11. utilization 12. duration 13. resilient 14. exertion 15. correlate 16. territorial 17. peculiar 18.  
acidity 19. endeavor 20. cease

**Matching sentence:** 1. Engaged 2. Inception 3. Innovative 4. Transition 5. Entrepreneurs 6. Well-being  
7. Adaptive 8. Exploration 9. Pneumonia 10. Ambitions

## CATEGORY

1. Sci/Tech - LEVEL4

### Date Created

2024/08/21

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