

Problem (Status Quo)

The most advanced mission to date is **NASA's OSIRIS-REx**, which targeted the near-Earth asteroid Benu to collect samples and return them to Earth.

While successful in its sample collection, the mission is **primarily scientific and not designed for commercial exploitation**.

The **costs associated with such missions are exceedingly high**, and the technology to mine and transport materials back to Earth on a scalable, commercial level is still in development.

Furthermore, the **legal and regulatory framework for ownership and use of extraterrestrial materials** remains **complex and unsettled**, posing **significant challenges for businesses**.

Nova Mining Technologies

We specialize in providing a **proprietary asteroid mining service**, designed to **transform the acquisition of space resources**.

Utilizing our advanced robotic technology, including two signature robots, we envision to offer a **unique and efficient extraction process**.

Our service is strategically priced to be **cost-effective**, making it an attractive option for both private and governmental aerospace organisations seeking to **leverage the wealth of minerals and water** available in asteroids.

By **lowering the barriers to entry** for asteroid mining, we aim to facilitate a **new era of resource availability** that supports **technological advancements on Earth and beyond**.

Vision

We're creating a future where asteroid mining is possible without compromising the efficiency of resource extraction or the safety of our operations. Our vision involves advanced robotic technology that enables efficient space resource utilization, protects vital equipment, and reduces operational costs, ensuring a sustainable path to abundant space resources.

Real-world Impact



Water

Water from asteroids could yield billions, revolutionizing Earth's water supply.



Medical

Asteroid-derived metals enhance MRI technology and patient monitoring systems.



Renewables

Asteroids can supply rare materials for efficient solar panels and batteries.

Why Now?

Global resource depletion presents an urgent challenge, as human consumption outstrips the Earth's capacity to regenerate essential materials.

Studies forecast that critical resources, such as indium and silver, could be **exhausted within the next few decades** if current consumption rates persist.

Alarming, projections suggest that we could deplete our primary metal supplies **within 50 years**. Given the dire circumstances, it is imperative to **pivot from traditional, Earth-based mining methods to innovative alternatives...**

...Globally, Platinum, Indium & Silver combined will run out **as soon as 2030** (as mining continues to grow at current rates).

Sourcing from asteroids will not only provide new & near-infinite supplies, but can **advance multiple industries**, while **reducing costs** of these group metals drastically (see left).



How

Share your asteroid mining objectives, and we'll deploy our advanced robotic technology to meet your needs with our 4-step solution.

- 1) **Identify:** the target asteroid using light spectroscopy to determine its valuable composition.
- 2) **Launch:** our vehicle equipped with dual-functionality robots and maintenance drones to the asteroid.
- 3) **Utilize:** our Scrape Collectors and Plasma Drillers for efficient mining and extraction.
- 4) **Return:** resources to Earth with our in-situ manufactured capsules, ensuring a cost-effective and reliable delivery.



“Asteroids definitely hold valuable materials and it may be worth going to mine them... I like how your team included the impacts portion to show how asteroids can help us at our home.”

-Troy Broussard, Launch Control at Space X