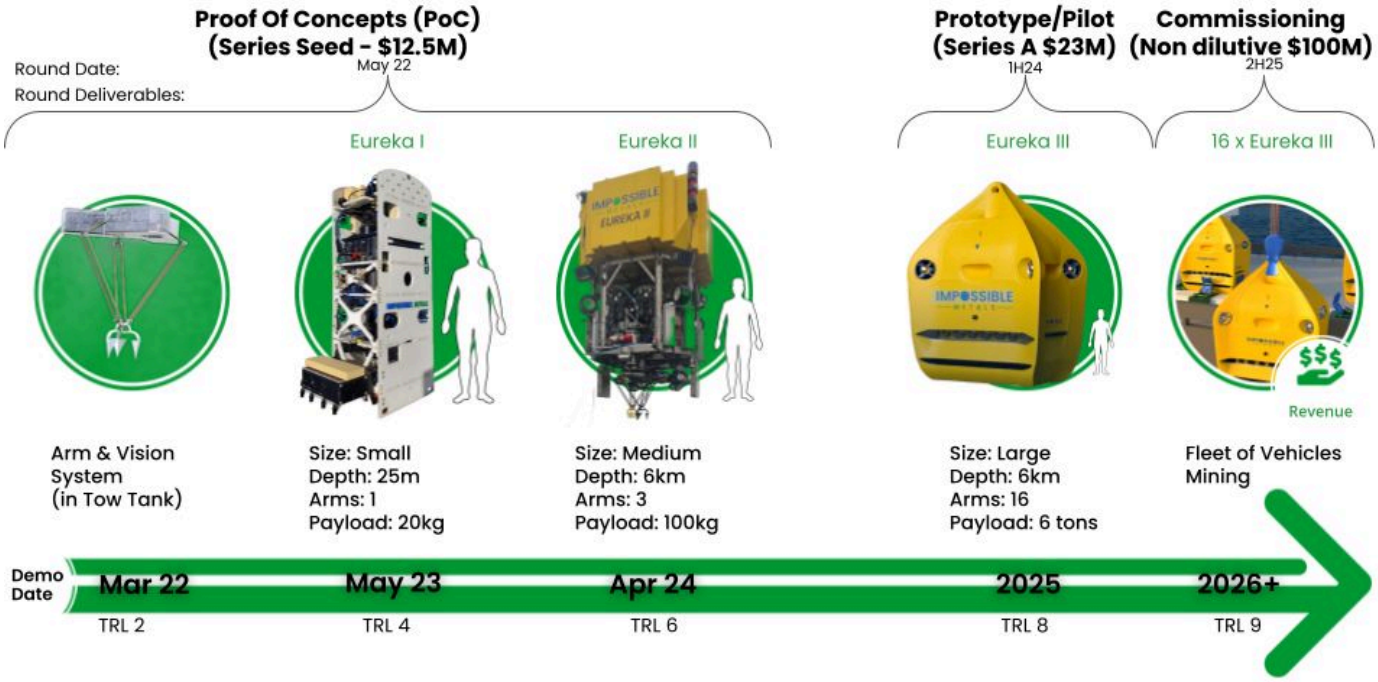
IMPOSSIBLE METALS

AI robots for sustainable critical metal harvesting from the seabed



Unique IP:

- Delta arms
- Buoyancy engine
- AI Vision Algorithms

Frequently Asked Questions

Why Deep-Sea Mining (DSM)?

- **Vast Resources:** The ocean holds the world's largest reserves of critical metals like nickel, cobalt, and manganese (used in batteries and other applications). 71% of our planet.
- **Lower Cost & Impact:** High-grade resources can be extracted with minimal environmental and social impact compared to land-based mines.
- **Efficient Extraction:** Eliminates the need for additional infrastructure, as existing ships and ports can be reused.
- **Multiple Benefits:** Deep-sea deposits often contain multiple minerals in a single form.
- **USA Benefits:** Massive amount of critical metals in US EEZ.
- **International Benefit:** The UNCLOS treaty defines international seabed minerals as humanity's common heritage, which could allow it to provide a royalty for developing nations impacted by climate crisis.

Why is DSM Critical for Net-Zero Emissions?

- **Land-Based Mines are Insufficient:** Traditional mining struggles to meet future battery demand due to limitations in startup time, quantity, cost, and environmental impact.
- **Current DSM Technology Needs Improvement:** Existing techniques for deep-sea mining can be destructive. Responsible development of better methods is crucial.
- **Breaking China's Dominance:** China currently controls a large share of critical metals (73% cobalt, 68% nickel) on land. DSM offers an alternative source.

Why is DSM Critical for U.S. Security?

- **China's Growing Power:** China is actively exploring deep-sea resources, potentially increasing its dominance in this critical sector.
- **Securing American Independence:** DSM can help the U.S. diversify its supply chain and reduce reliance on China for critical minerals.

How is Impossible Metals' Technology Different from Other DSM Methods?

- **Reduced Sediment Disruption:** Our technology minimizes the disturbance of the seabed by using hovering AUVs (autonomous underwater vehicles) instead of tracked vehicles.
- **Focus on Fauna Protection:** We use AI and computer vision to identify and avoid harming marine life.
- **Minimized Plumes:** Our systems avoid creating plumes that could harm deep-sea ecosystems.

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