



# Determinant Materials

Determinant builds next-generation metal refineries to rapidly scale America's refined metal production.

SEED ROUND

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# America Cannot Function Without Refined Metals...**But It Doesn't Produce Them.**

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EXCLUSIVE ASIA

## China Is Choking Supply of Critical Minerals to Western Defense Companies

Beijing's tightened controls are a sign of the leverage it has over the U.S. military supply chain

By [Jon Emont](#) [Follow](#), [Heather Somerville](#) [Follow](#) and [Alistair MacDonald](#) [Follow](#)  
Updated Aug. 3, 2025 10:45 pm ET

1841 Listen (2 min)



**REFINED METALS**



**DEFENSE TECHNOLOGY**

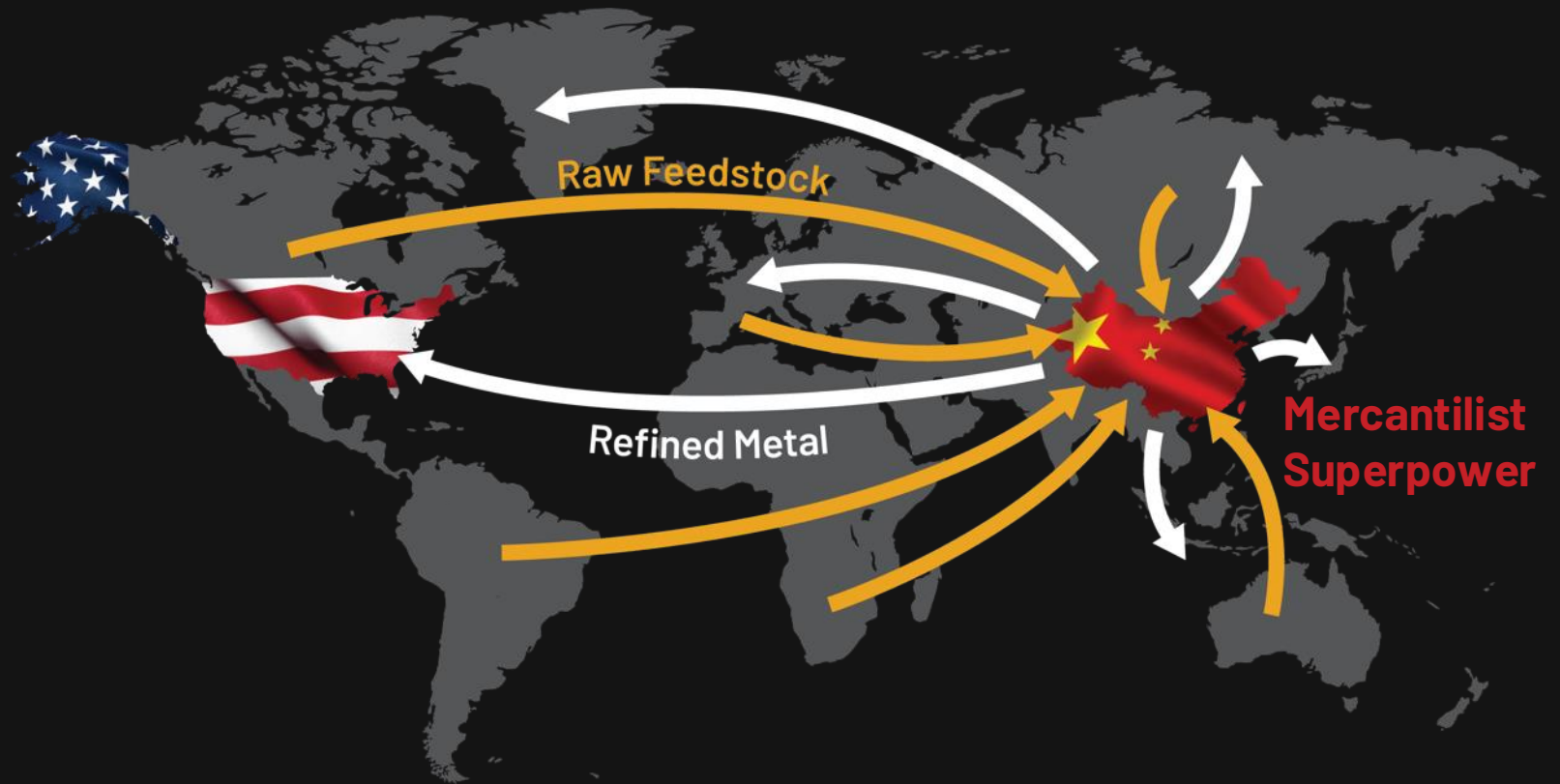


**AI DATA CENTERS**



# Mining Isn't The Chokepoint. Refining Is.

- ▶ The U.S. has almost no refining capacity for critical metals
- ▶ China controls ~90% of world metal refining



# America is Rapidly Reshoring Critical Metals Capacity.

World Donald Trump Minerals China

**Newsweek**

News Article ⓘ

## America's New Mineral Alliance Has China in Its Sights

PUBLISHED FEB 05, 2026 AT 07:09 AM EST      UPDATED FEB 08, 2026 AT 04:07 AM EST

Washington Examiner

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ENERGY AND ENVIRONMENT

## What to know about Trump's 'Project Vault' mineral stockpile aimed at countering China

By Maydeen Merino

Published February 16, 2026 7:00am ET

Washington Examiner

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ENERGY AND ENVIRONMENT

## US seeks trading bloc to counter China grip on critical minerals, Vance says

By Maydeen Merino

Published February 4, 2026 10:43am ET

**\$200 Billion+ In Funds** from the US Govt for American Metals Companies

# Determinant Has **Built** a **Running Metal Refinery.**

- ▶ Operational metal refinery (MR1): 250 tons/year capacity, 7600 sqft facility
- ▶ Multi-patent MPR Process
- ▶ Faster & more flexible deployment than incumbents
- ▶ Scale capacity at the rate American Reindustrialization demands



# We are Not a Science Experiment. We are Refining & Shipping Real Metal.

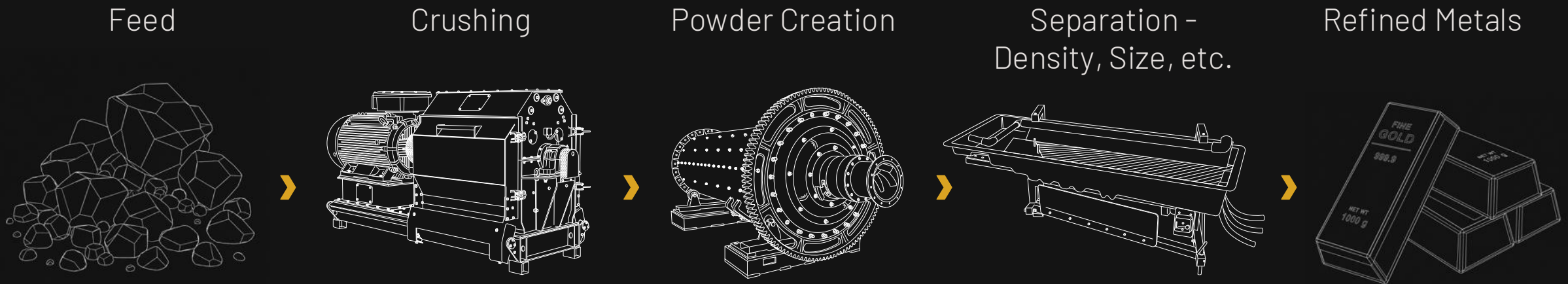
Multiple supply & offtake agreements, representing:

- ▶ \$50 Million+ annual revenue
- ▶ \$500k upfront revenue





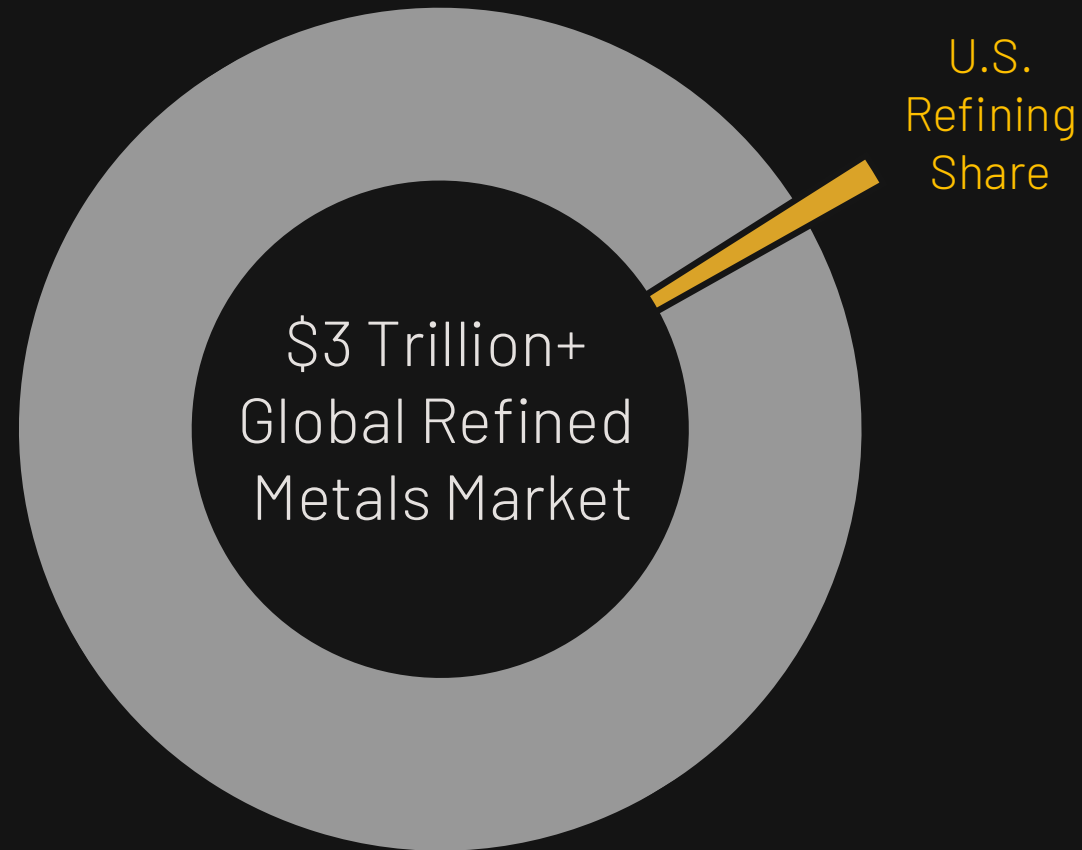
# MPR: A Platform Technology to Rapidly Refine Every Metal on the Periodic Table.



▶ MPR converts **complex materials into engineered powders**, enabling separations that are difficult to achieve using conventional bulk-material refining approaches.

▶ The result is a **simpler, faster, and more scalable refining platform** capable of producing many metals from many inputs.

# Determinant Will Dominate a Massive \$3 Trillion Market.



# We Are the Team to Dominate Metal Refining.



**Nikhil R. Gupta**  
FOUNDER & CEO

Ex refinery chemical engineer

10+ years in critical resources



**Brag Selvarajan**  
VP, FINANCE & OPERATIONS

Ex consulting partner & chemical engineer

15+ years in industrial finance & supply chain



**Paul Darner**  
PLANT MANAGER

Ex Fortune 500 Plant Manager

20+ years in chemical & materials plant operations



**Dr. Nikhil Kalathil**  
VP, GOVERNMENT RELATIONS

Ex Geopolitical Strategist

10+ years in policy, research & public funding



**Grant Angwin**  
STRATEGIC ADVISOR

Ex Chairman LBMA, President Johnson Matthey & Asahi

Board Member Shanghai Gold Exchange, Silver Institute



# Backed by Elite Forward-Thinking Investors.



**Justin Mateen**  
JAM Fund



**Josh Steinman**  
Galvanick



**Abhay Venkatesh**  
Anduril



**Jeff Crusey**  
IceNine



**Garuth Acharya**  
Ironstead



**Josh Farahzad**  
Proto-Town



# Raising \$10 Million to Meet Insane Demand.

- ▶ Multiple supply & offtake agreements: Imara, Columbus Micro Systems, etc
- ▶ Represents \$50 million+ annual revenue, 5000+ tons, \$500k upfront
- ▶ Multiple firms want our metal
- ▶ Multiple firms want our refining services



\$5M

Hire Killer Team: Engineers, Scientists, Sales, Operations



\$3M

Upgrade MR1 to Fully Autonomous Factory



\$2M

Working Capital + Reserve



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The Last American Refinery

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