

OSI Mining & Resources

Unlocking Critical Minerals Through Advanced Extraction Technologies

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Agenda Overview

Executive Overview

- ▶ Introduction to OSI Mining & Resources
- ▶ Financial Snapshot (2025–2027)

Core Financials

- ▶ EBITDA and Net Income Projections
- ▶ Seed Funding Allocation

Forward Strategy & Valuation

- ▶ 5-Year Financial Forecast
- ▶ Valuation Scenarios (EBITDA Multiples)
- ▶ Break-Even Analysis

Capital Deployment & Assumptions

- ▶ Use of Funds Timeline
- ▶ Key Financial & Operational Assumptions

Risk Mitigation & Execution Plan

- ▶ Risk Factors & Strategic Responses
- ▶ Milestones Timeline (2025–2027)

Site Overview

- ▶ Visual Reference: C&W Mine & Partner Network

Appendix

- ▶ Detailed Models, Unit Economics, Comparables



Financial Overview 2025–2027



Financial Roadmap:
Building a Scalable
U.S. Mineral Platform



- Growing revenues,
improving margins



- Anchored in LACE
technology and
domestic processing



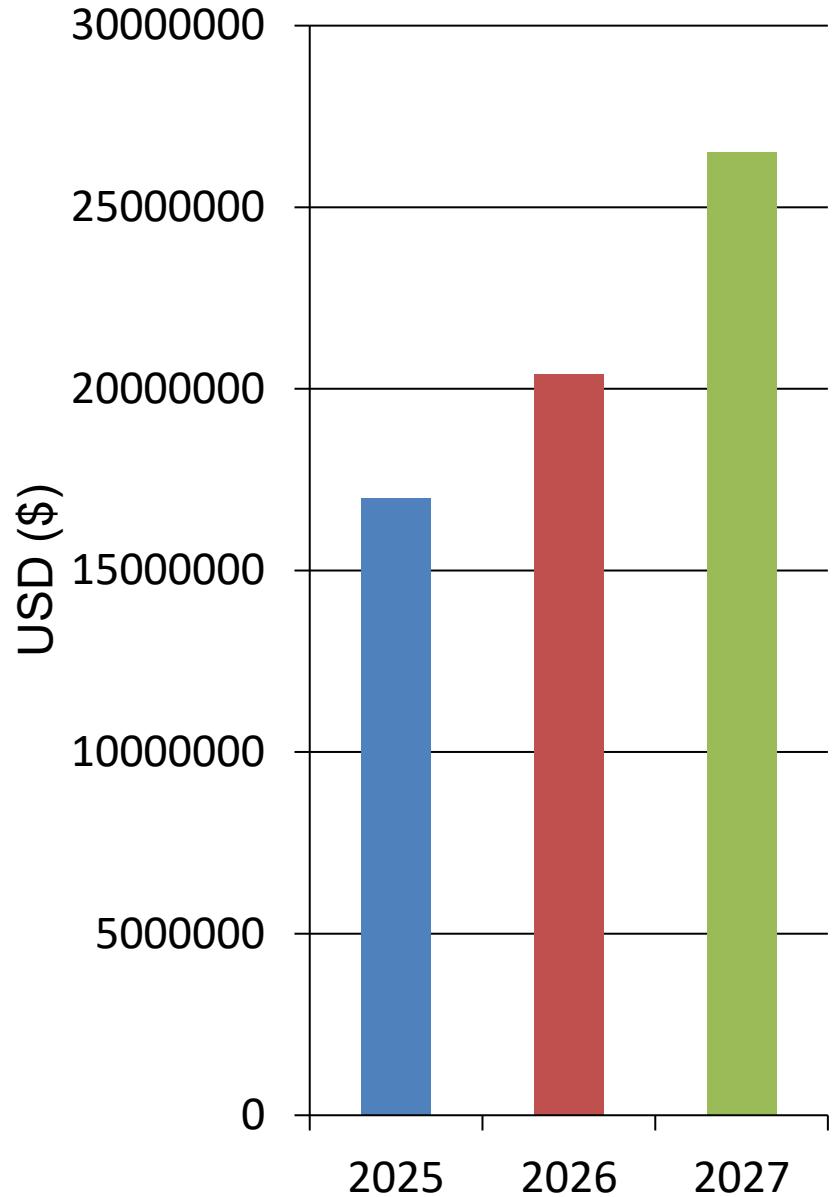
- Strong near-term
cash flow and 5-year
profitability



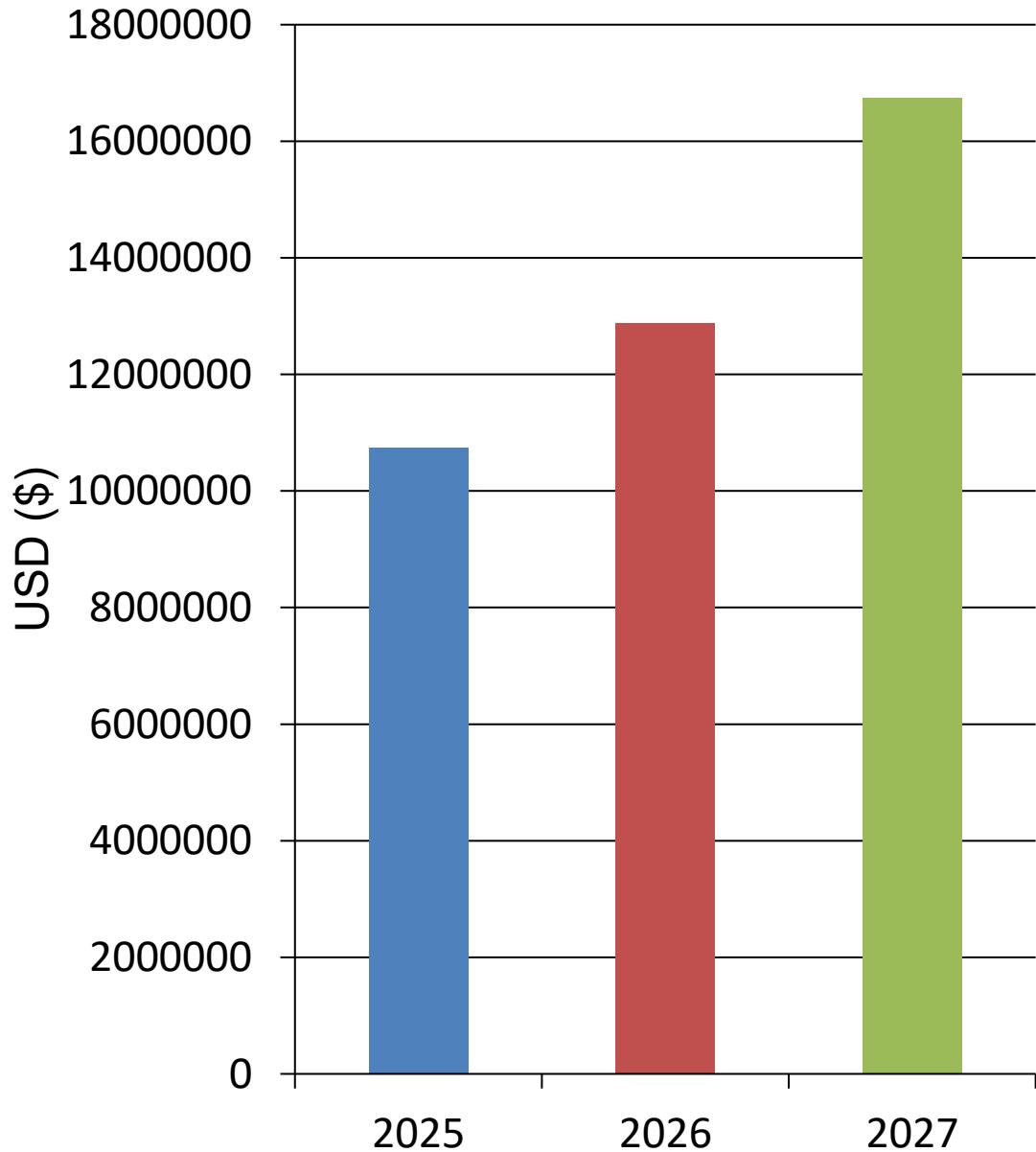
Detailed Financial Summary (2025–2027)

Year	Revenue	EBITDA	
	Net Income	Funding Needed	
2025	\$42.48M	\$16.99M	\$150M
	\$10.74M		
2026	\$50.98M	\$20.39M	-
	\$12.89M		
2027	\$66.27M	\$26.51M	-
	\$16.75M		

EBITDA Projection (2025–2027)



Net Income Projection (2025– 2027)



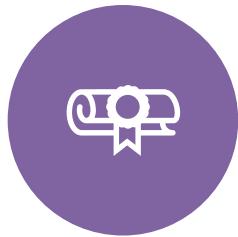
2025 Seed Funding Allocation (\$150M)



- 40% – LACE TECH DEPLOYMENT AND LAB INTEGRATION (\$60M)



- 25% – FIELD OPERATIONS AND CLAIM DEVELOPMENT (C&W MINE) (\$37.5M)



- 20% – STAFFING, COMPLIANCE, AND TESTING (\$30M)



- 15% – IP, LICENSING, AND LEGAL (\$2.2M)

5-Year Financial Forecast (2025–2029)

Year	Revenue	EBITDA	Net Income
2025	\$42.48M	\$16.99M	\$10.74M
2026	\$50.98M	\$20.39M	\$12.89M
2027	\$66.27M	\$26.51M	\$16.75M
2028	\$79.52M	\$31.81M	\$20.10M
2029	\$95.42M	\$38.17M	\$24.06M

Valuation Projections (Based on EBITDA Multiple)

- Valuation Method: EBITDA Multiple 6x to 8x industry standard.
- 2027 EBITDA: \$26.51M.
- → Low Valuation 6x: \$159.06M.
- → High Valuation 8x: \$212.08M.
- 2029 EBITDA: \$38.17M
- → Low Valuation 6x: \$229.02M.
- → High Valuation 8x: \$305.36M.
- Assumes stable operational margins, scalable output, and strong off-take contracts.

Break-Even Analysis



Break-even Point \$22.5M in Annual Revenue.



Based on operating margin assumptions and fixed costs.



Achieved midway through 2026 forecast based on revenue trajectory.



Assumes operating cost ratio of 60% with fixed cost base of \$12M annually.



High-margin refining model helps reduce the break-even timeframe.



Capital Utilization Timeline (2025 Seed Round)

Q1: Procurement of the site.

Q2: Equipment procurement,
operations setup.

Q3: LACE lab deployment,
staff onboarding.

Q4: Processing trial runs, tech
validation reporting.

Total: \$3M Seed Round spent
across R&D, field ops, legal/IP,
and staffing.



Key Financial and Operational Assumptions

- 60% operating cost ratio COGS, SG&A, R&D based on mining & refining norms.
- 21% effective corporate tax rate.
- No debt beyond early-stage seed capital.
- Gradual revenue ramp based on modular LACE deployments.
- Equipment cost basis remains stable through 2027 due to secured suppliers.



Risk Factors and Mitigation Strategies



Supply Chain Delays

Mitigated by U.S.-based vendors & redundancy planning.



Regulatory Uncertainty

Early engagement with EPA, DOE, and state bodies.



Capital Constraints

Strategic phased deployment with low burn-rate model.



Commodity Price Volatility

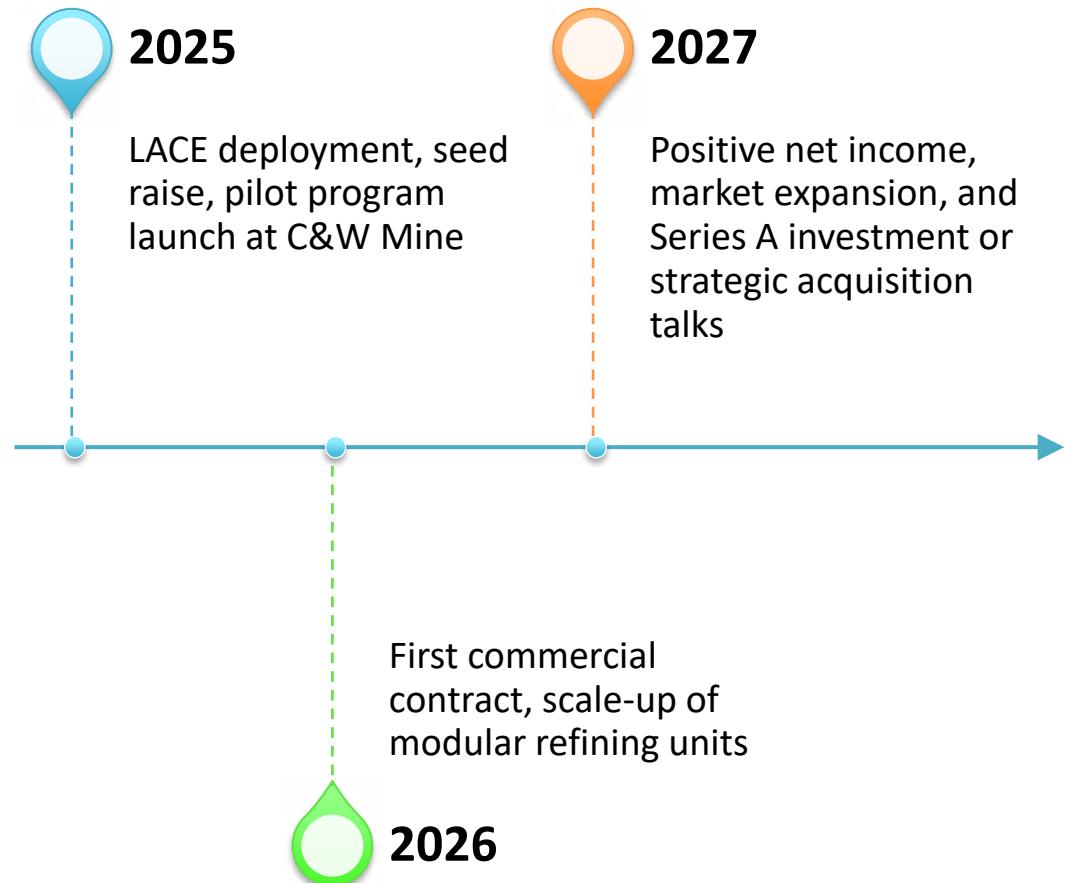
Diversified feedstocks: ore, e-waste, REEs.



Tech Scaling Risks

Pilot testing with INL to validate performance metrics.

Milestones Timeline (2025– 2027)





L&L Mine Site – Visual Reference

Main Shop area and Refinement Center. Will be updated

A photograph of an industrial mine site under a clear blue sky. In the foreground, there's a large, overgrown green bush. To the left, a metal walkway with railings leads to a rusted metal structure. In the center-right, several large white cylindrical storage tanks are visible, some with pipes attached. A yellow forklift is parked near one of the tanks. A long, low-profile building with a corrugated metal roof runs along the background. Power lines are visible against the sky.

L&L Mine Site – Visual Reference

Processing holding Tanks. Will be updated

L&L Mine Site – Visual Reference

Aqua Regia Process Center. Will be updated



L&L Mine Site – Visual Reference

- Aqua Regia Process Center
- Screening and Grinding Equipment.
- Will be updated



L&L Mine Site – Visual Reference

Aqua Regia leaching tank System. Will Be updated.

A photograph of an industrial workshop or smelting facility. In the center, there are two large, cylindrical furnaces mounted on blue metal frames. The furnaces are made of dark metal and have circular ports. Above each furnace is a large, rectangular metal hood or chimney. The workshop has wooden walls and a concrete floor. Various industrial equipment, tools, and materials are scattered throughout the space, including a red bucket on the floor and a concrete mixer on the right side.

L&L Mine Site – Visual Reference

Main shop/Smelting Furnaces. Will be updated

Appendix

Supporting Financials, Cost
Models, and Valuation Data

Equipment Specifications & Supplier Summary

- LACE Separation Technology.
Provided by Idaho National Laboratory (INL).
- Aqua Regia Refining Equipment.
Provided by Sunny Corp.
- Supporting Infrastructure:
leaching tanks, centrifuges, and filtration systems.
Provided by Super Leach.
- Modular processing design allows 10-ton batch capacity for both systems.



Detailed Cost Model

Aqua Regia 10-Ton Batch

Chemical reagents
and acids

\$22,000

Labor

3 staff members x 10
days = \$7,500

Utilities, safety, and
waste disposal

\$5,500

Estimated Yield

27 – 32 oz Gold +
PGM's. Silver is a
2/Ratio

Silver estimated
yield

35 Toz – Toz 45

Total Estimated Cost
per Batch

\$47,000



Detailed Cost Model

LACE 10-Ton Batch

- Ion exchange solvents and ligands
\$8,500
- Labor and automation oversight
\$4,000
- Power and cooling systems \$3,200
- Estimated Rare Earth Oxide yield 320–400 kg
- Total Estimated Cost per Batch
\$15,700

Permitting and Regulatory Timeline

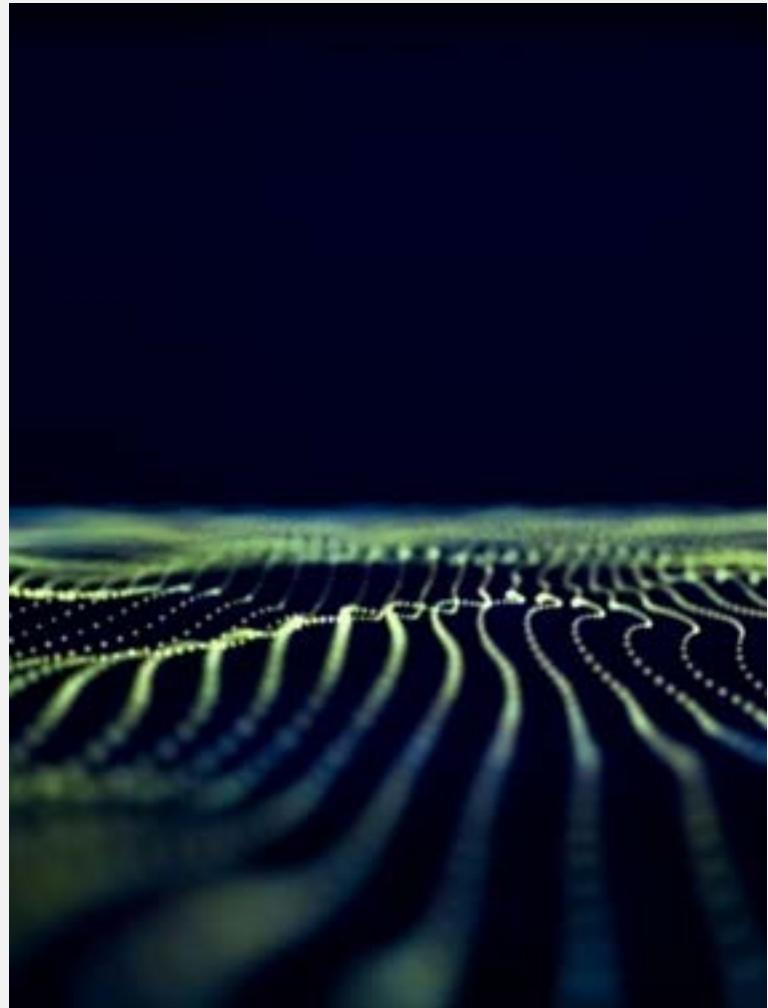
Q1 – Environmental Site Assessment ESA Phase I.

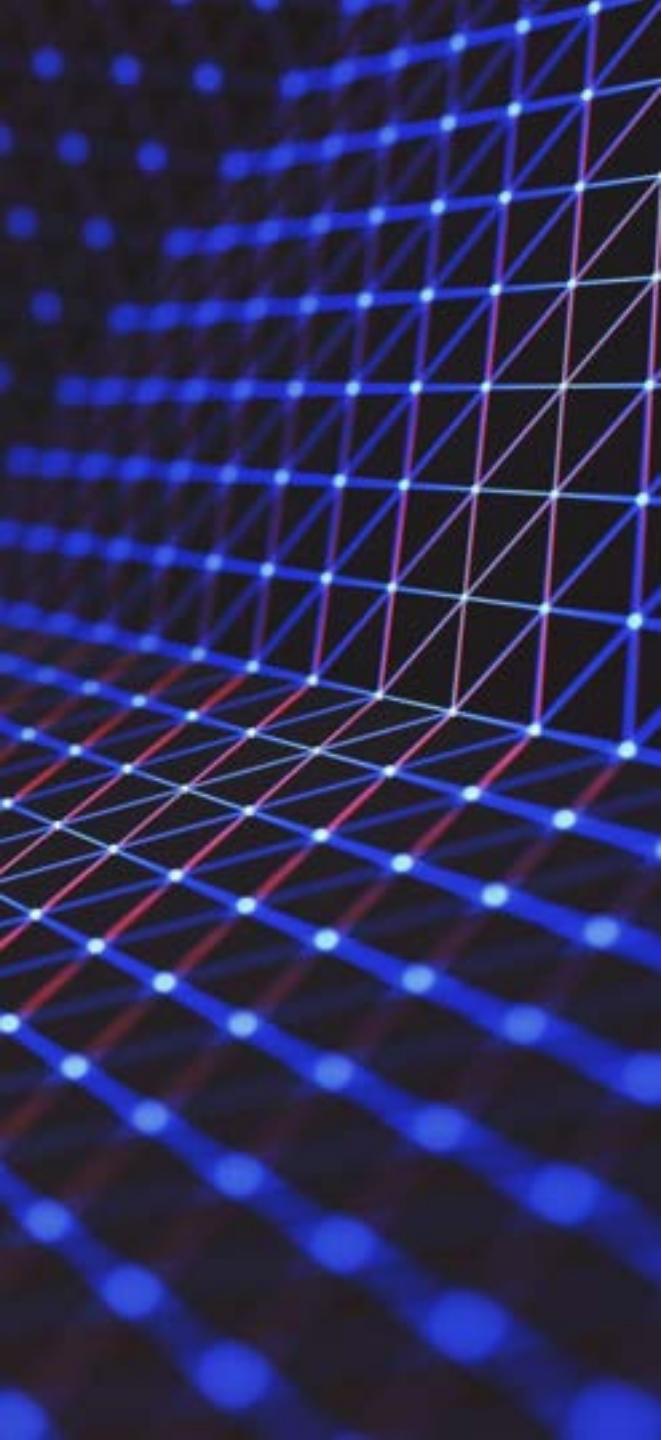
Q2 – Notice of Intent NOI submission - if needed.

Q3 – EPA review and response 90–120 days typical.

Q4 – Safety/Fire Compliance, Air Quality Permits, local jurisdiction.

Adjusted based on site-specific assessments and volume.





REE and PGM Market Comparables

Neodymium (Nd): \$95/kg –
\$115/kg

Dysprosium (Dy): \$400/kg –
\$460/kg

Platinum (Pt): \$1,000 –
\$1,100/oz

Palladium (Pd): \$900 –
\$1,050/oz

Rhodium (Rh): \$3,500 –
\$4,200/oz

Comparative EBITDA margins
in REE sector: 25% – 45%

Unit Economics Processing Cost and Margin per Ton

Aqua Regia - \$4,700/ton processing cost, estimated return \$15,000+/ton.

LACE - \$2,570/ton processing cost, with an estimated return of \$10,000–\$13,000/ton.

Combined margin blended feedstock 60% +

Value recovery driven by ore grade, automation, and reagent efficiency.

DCF Valuation Summary 8% Discount Rate

- Year 1 Free Cash Flow: \$7.2M
- Year 2: \$10.1M
- Year 3: \$13.5M
- Year 4: \$17.2M
- Year 5: \$21.6M
- Terminal Value Year 5, 6x EBITDA \$159M
- Net Present Value NPV \$170M
- Internal Rate of Return IRR 42%

Environmental Compliance Summary

Closed-loop LACE process minimizes effluent discharge.

Aqua Regia setup includes waste neutralization protocols.

Air and chemical storage permits are managed via local jurisdictions.

Regular third-party audits are recommended for sustainability alignment.



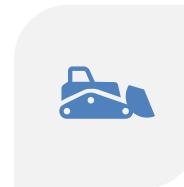
Grant, Loan, & Contract Application Pipeline



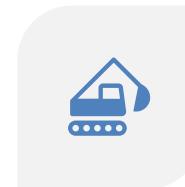
**DOE TITLE XVII LOAN
GUARANTEE PROGRAM**
APPLICATION IN
PROCESS



**DEFENSE PRODUCTION
ACT TITLE III FUNDING**
TARGETING Q4
SUBMISSION



**EPA BROWNFIELDS
GRANT**
FOR E-WASTE AND REE
REMEDIATION



**SBIR/STTR PHASE I
DOE/NSF**
INNOVATION AND TECH
DEPLOYMENT



**POTENTIAL DOD
CRITICAL MATERIAL
CONTRACTS OFFTAKE**
UNDER NDA