

# OSI Mining & Resources

Pioneering Mineral  
Extraction &  
E-Waste Recovery with LACE  
Technology



# The Problem

- The U.S. is 95% dependent on foreign sources, primarily China, for rare earth elements and critical minerals.
- Domestic processing infrastructure is either nonexistent or outdated.
- E-waste recovery remains underutilized, despite high metal concentrations.
- National security and clean energy supply chains are vulnerable.



# Our Solution

- OSI delivers a domestic, scalable, and environmentally safe solution through:
- - Ligand-Assisted Capillary Electrophoretic Separation LACE technology
- Strategic partnerships with Idaho National Laboratory INL & The University of Wyoming.
- - Proprietary processing of ore & e-waste



# Market Opportunity

- Global REE market: \$10.6B in 2023, projected to reach \$23.5B by 2030
- U.S. DoD, DOE, and private sector demand are rising rapidly
- E-waste market: Over \$57B recoverable material annually
- High-value resource recovery: Nd, Pr, Dy, Tb, Pt, Pd, Rh, Au



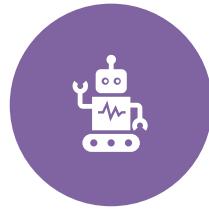
# Our Technology – LACE



DEVELOPED IN  
PARTNERSHIP WITH INL



RAPID, LOW-ENERGY, NON-  
THERMAL METHOD FOR  
REE SEPARATION



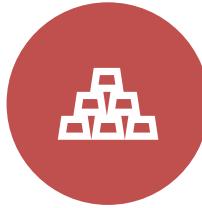
CAPABLE OF PROCESSING:



COAL-BASED MINERAL  
FORMATIONS



E-WASTE LEACHATES



ORE CONCENTRATES FROM  
PGMS/GOLD



HIGHLY SELECTIVE,  
SCALABLE, AND  
DEPLOYABLE IN REMOTE  
OR MODULAR SYSTEMS

# Competitive Advantage

Feature	OSI Mining
Domestic Supply Chain	✓
LACE Separation	✓
Modular/Mobile Refining	✓
Environmental Footprint	Low
Defense & Clean Energy Aligned	✓

Traditional Miners

✗

✗

✗

High

✗

Foreign REE Suppliers

✗

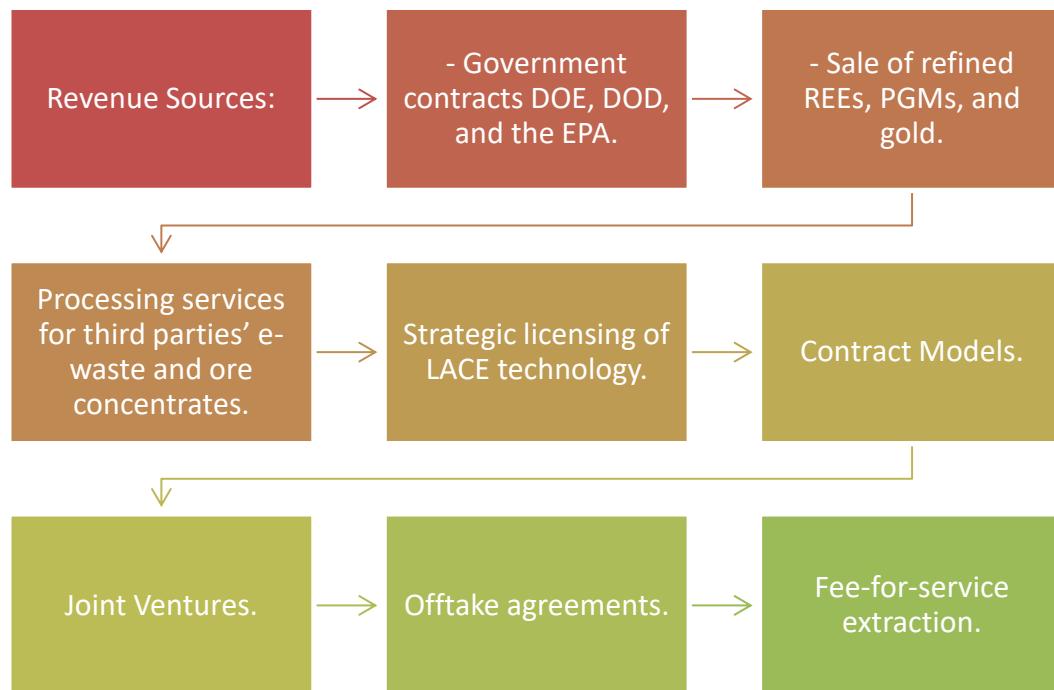
✗

✗

High

✗

# Business Model



# Traction

INL Partnership  
Secured LACE  
deployment rights.

Building a larger  
infrastructure in the  
Arizona C&W Mine.

Purchase and build a  
Surface Striping  
System/Precious Metal  
Recovery System.

LOIs signed with key  
partners and mining  
claim holders.

Ongoing collaboration  
with the University of  
Wyoming geochemical  
labs.

# Go-to-Market Strategy



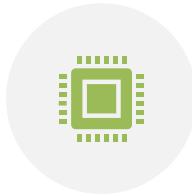
PHASE 1: COMPLETE THE PURCHASE AGREEMENT WITH THE MINE OWNER AND CONSTRUCT LARGER INFRASTRUCTURE ON THE SITE.



PHASE 2: DEPLOY SURFACE STRIPPING SYSTEM/PRECIOUS METAL RECOVERY SYSTEM.



PHASE 3: GOVERNMENT PARTNERSHIPS & CONTRACT PROCUREMENT DOD & DOE.



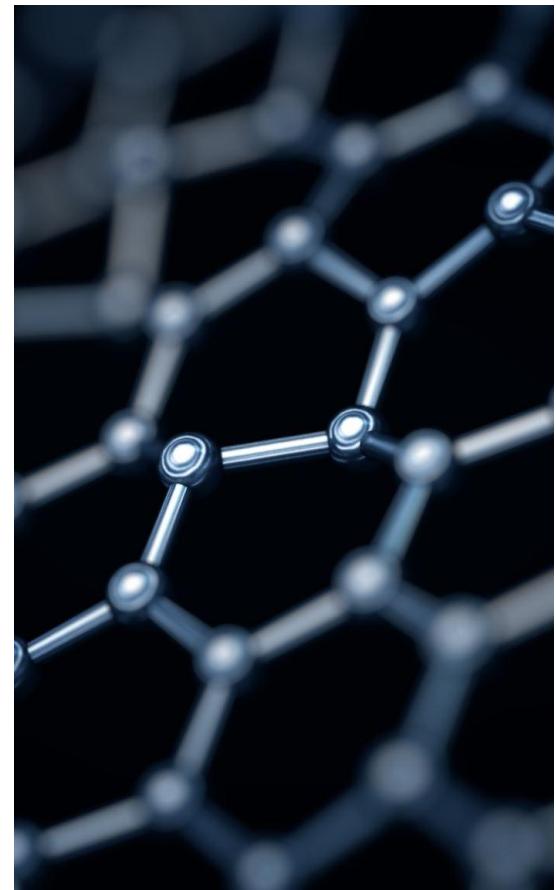
PHASE 4: SCALE OPERATIONS THROUGH LICENSING AND JOINT PROCESSING FACILITIES.



PHASE 5: SCALE OPERATION IN ROCK SPRINGS, WYOMING, FOR E-WASTE AND PUBLIC PROCESSING FACILITY.



PHASE 6: SCALE UP PRODUCTION IN ROCK SPRINGS, WYOMING, AND C&W. NOTE THAT THE INVESTOR'S FUNDS WILL NOT BE UTILIZED AT THIS STAGE.



# Team

- **Kolten Dee Lewis, CEO** - Strategic operations, financial planning, Mining operations, project management, and commercialization, Founder of LACE.
- **Brian Lewis, Vice President** - Oversees strategic operations, financial planning, and project execution. Key leader in aligning OSI's business development with LACE technology deployment and stakeholder partnerships. Brings operational discipline and cross-sector coordination to support sustainable growth.
- **Phil Allen** - Director of Operations – Field deployment and mineral extraction
- **Michelle French** - GEE Consultant – Grant and energy policy navigation
- **Todd Jaeckel** - E-Waste Engineer – Process integration
- **Advisors from INL, the University of Wyoming, and Ernst & Young**

(3-Year Snapshot – Estimated)

# Financials

Year	Revenue	EBITDA	Net Income	Funding Needed
2025	\$42,480,000	-\$16,992,000	\$10,738,944	\$30M Seed
2026	\$50,976,000	\$20,390,400	\$12,886,733	-
2027	\$66,268,800	\$26,507,520	16,752,753	-

# Use of Funds



Seeking: \$30M Seed Round



40% – LACE tech deployment and lab integration



25% – Field operations and claim development  
C&W Mine



20% – Staffing, compliance, and testing



15% – IP, licensing, and legal

# Exit Strategy



STRATEGIC ACQUISITION  
BY REE PROCESSOR OR  
DEFENSE CONTRACTOR



LACE LICENSING TO U.S.  
LABS AND  
MANUFACTURERS



GOVERNMENT OFFTAKE  
PARTNERSHIPS



POTENTIAL IPO BY 2028

# Closing Vision

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“OSI is not just mining the future — we are engineering it.

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Through innovation, partnership, and resource stewardship,

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we are redefining how America accesses the minerals of tomorrow.”