Executive Summary

$6M Investment at a $30M Post-Money Valuation.

PROBLEM: STRATEGIC & ENVIRONMENTAL CHOKEPOINTS IN REE RECOVERY

The global transition to advanced electronics, electric vehicles, and national defense systems is currently paralyzed by a dual crisis representing a **TAM of $3.9T** in untapped resources:

Mineral Sovereignty: 90% of refined rare earth elements (REEs) are controlled by foreign entities, while traditional mining projects require multi-year permitting timeframes and billions in capital expenditure, leaving the domestic supply chain vulnerable.

Waste Liability: Billions of tons of industrial liabilities—spanning power plant coal fly ash, refinery red mud, mine tailings, and electronic waste—are actively poisoning watersheds and exposing global operators to severe regulatory penalties while locking up **billions of dollars** in critical minerals and precious metals.

MISSION: SECURING DOMESTIC SOVEREIGNTY

C2RE is a **technology licensing** company dedicated to solving the domestic critical mineral and precious metals crisis through industrial remediation. We transform toxic waste into "artificial ore," providing a fast-tracked shortcut to a domestic supply chain that enables a self-reliant American manufacturing base for defense, aerospace, and semiconductor industries.

TECHNOLOGY: MODULAR BIOLOGICAL MYCOMINING REFINERIES

C2RE operates as a universal engine across a tri-sector platform (Utility & Environment via Coal Ash, Technology & Urban Mining via E-Waste, and Defense & Semiconductors via Red Mud/Tailings) using a proprietary, two-stage bio-chemical platform:

(1) *AI-Controlled Process Control:* Powered by a proprietary small language model trained on domain-specific **fungal** strain data, our own AI analyzes incoming feedstock and tunes the bio-leaching "recipe" to ensure consistent yields regardless of feedstock variability.

(2) *Stage 1 - Microbial Bio-Leaching:* Standardized, **off-the-shelf** industrial fermentation tanks house specialized microbial consortia (fungi/yeast) that naturally catalyze the oxidation of solid waste at near-ambient temperatures, stripping metals into a liquid and producing a high-margin bio-leaching fluid.

(3) *Stage 2 - Precision Extraction*: Engineered bio-leaching fluid is combined with feedstock to yield industrial-grade Metal Salts.

(4) *Blockchain Digital Product Passport*: Every gram is tracked on our proprietary **low energy** blockchain network to ensure high transparency within government regulations.

DEFENSIVE MOATS

Economic Inversion: Unlike traditional miners who pay to dig, C2RE partners can be paid to take the "ore" (waste) via remediation fees, creating a structurally negative cost basis.

Biological Software Lock: Proprietary microbial strains act as the operational software; hardware cannot be reverse engineered without the biological yield engine.

Speed-to-Market: By co-locating at existing brownfield industrial sites, C2RE reaches operational status in months rather than decades, by passing traditional mining red tape.

Platform Agility: Decoupled from commodity volatility, the platform shifts input bias between E-waste, Ash, and Red Mud using the same physical footprint.

USE OF PROCEEDS

Technology & Engineering (68% / $4.1M): Material processing, maximizing strain recovery parameters, and moving rapidly from baseline pilot metrics through robust commercial testing targets (TRL 3/4 to 6/7).

Operations & Logistics (21% / $1.25M): Securing regional hub partnerships and scaling baseline operations.

Corporate & Compliance (11% / $650k): IP portfolio expansion covering multi-feed biological recipe frameworks and compliance.