

Detroit  
Ag

# UNLOCKING VALUE IN E-WASTE

Sustainable | Scalable | Profitable

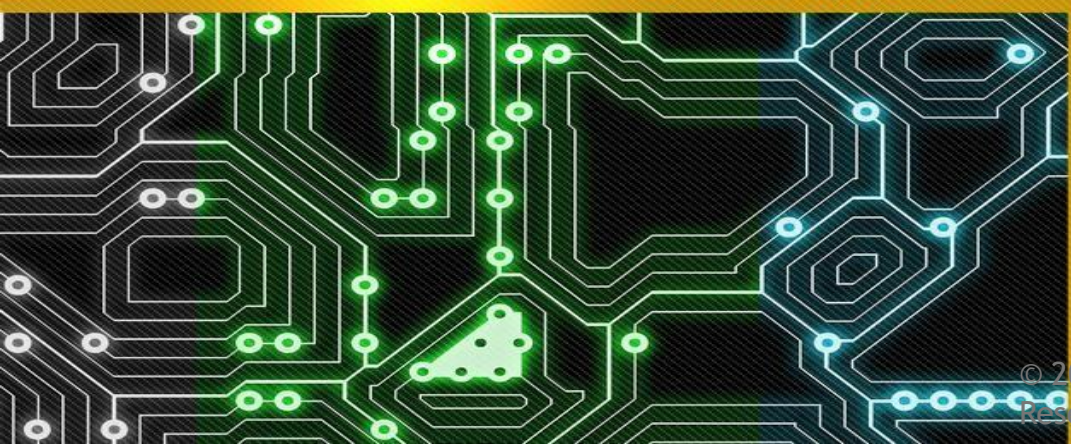
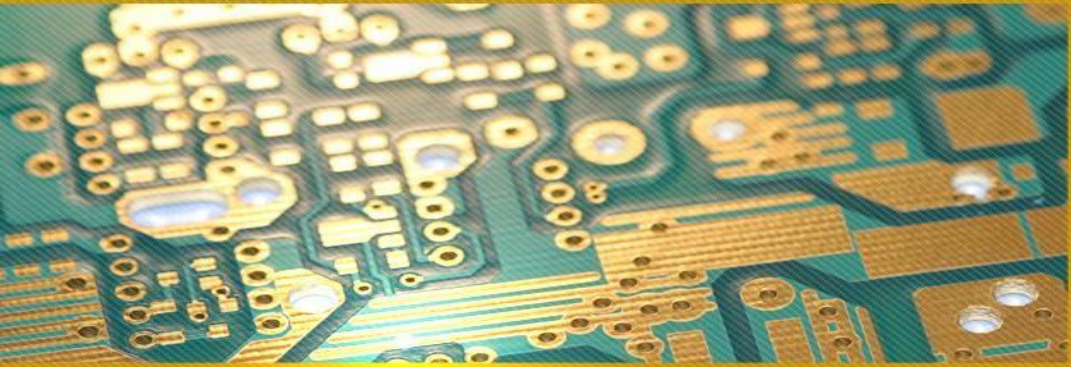
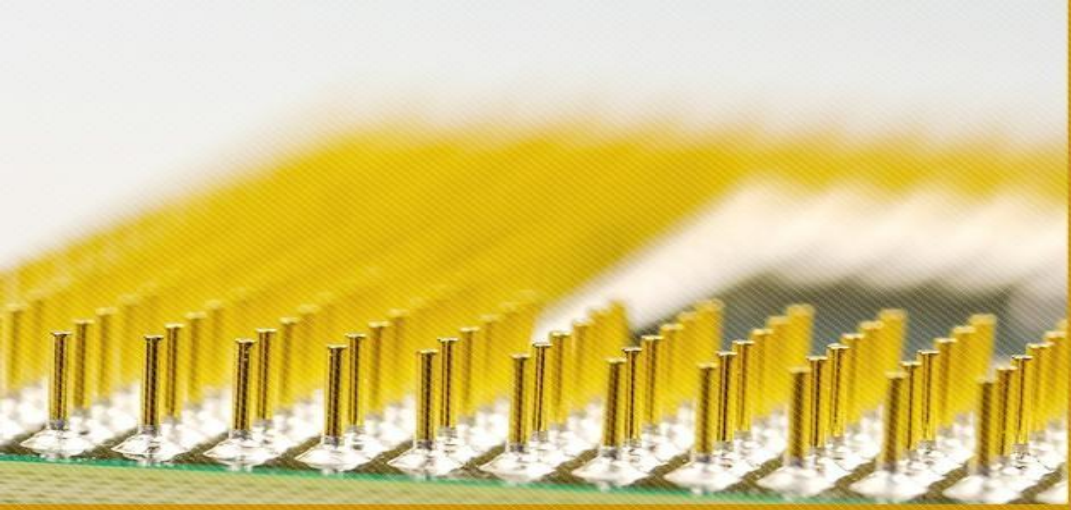


# Our Mission



## Detroit Ag

*We strive to be the changing force to the e-waste status quo, by utilizing a closed loop-environmentally safe method of capturing precious and non-precious metals from circuit boards.*



- **1 Problem & Opportunity**  
A Growing E-Waste Crisis Demands Innovative Solutions
- **2 Solution**  
Revolutionizing E-Waste Recycling with Closed-Loop Technology
- **3 Business Model & Financials**  
Unlocking Value in E-Waste through Sustainable Recycling
- **4 Traction**  
Building a Strong Foundation for Growth and Success
- **5 Funding Ask**  
Partnering to Transform the E-Waste Industry

# The Problem

*A Growing E-Waste Crisis Demands Innovative Solutions*



Source: Chemical C Engineering News, Volume 102, Issue 23  
Electronic waste is a gold mine waiting to be tapped

## The world is drowning in electronic waste

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The flood of e-waste we generated in 2022 contained \$91 billion worth of valuable metals, according to a recent United Nations report.

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Almost 40% of those metals ended up in a landfill, were burned in incinerators, or were disposed of in uncontrolled ways.

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A mere 4% of some metals essential for clean energy were recovered from e-waste.

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Mining these same metals, as well as improperly recycling used electronics, causes pollution and human health hazards.

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Current recycling processes require high temperatures and harsh chemicals.

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Several researchers and companies are advancing economical, sustainable methods to recover more key metals from e-waste. These approaches could help facilitate a secure, circular supply of these materials.

# Problem Keeps Getting Bigger

*A Growing E-Waste Crisis Demands Innovative Solutions*



## Global e-Waste Monitor 2024: Electronic Waste Rising Five Times Faster than Documented E-waste Recycling



Global e-Waste Monitor 2024  
United Nations Institute for Training and  
Research

A record 62 million tonnes (Mt) of e-waste was produced in 2022, Up 82% from 2010

On track to rise another 32%, to 82 million tonnes, in 2030

Billions of dollars worth of strategically-valuable resources squandered, dumped

Just 1% of rare earth element demand is met by e-waste recycling

# The Current Solutions

*A Growing E-Waste Crisis Demands Innovative Solutions*



## Inefficient and Unsustainable: Current E-Waste Recycling Methods Struggle to Keep Pace with Explosive Growth in Electronic Waste

### Manual dismantling

Labor-intensive and often hazardous

### Shredding and sorting

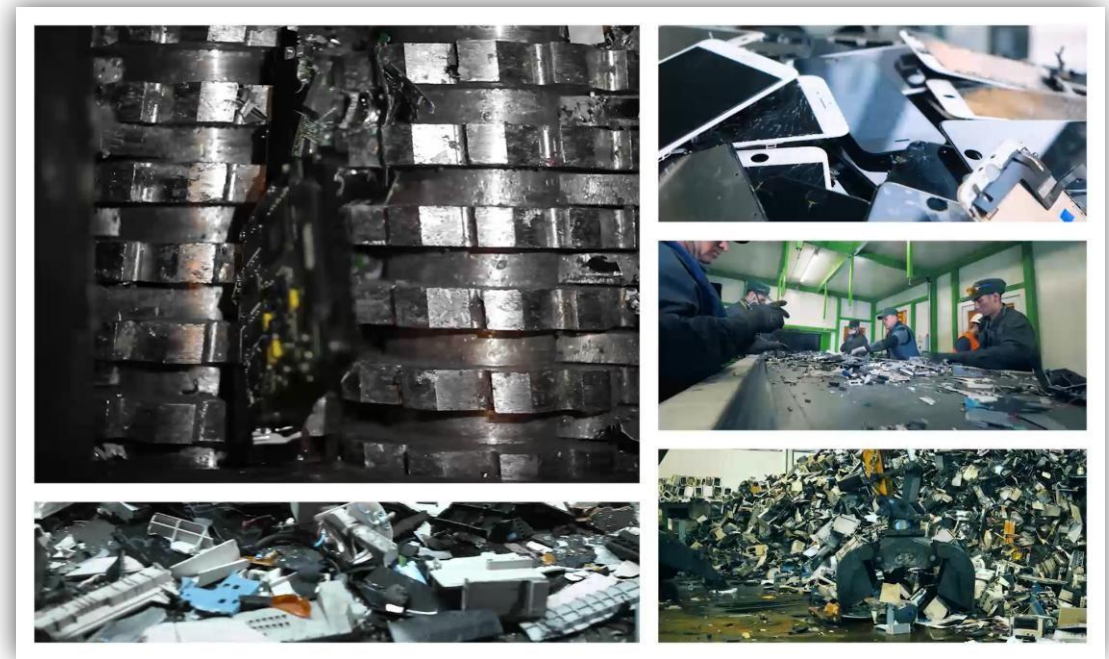
Mechanical processes that can be inefficient and damage valuable components

### Smelting and refining

High-energy processes that can recover precious metals but often result in environmental pollution

### Landfilling

A significant portion of e-waste still ends up in landfills, posing environmental and health risks



# The Opportunity

*A Growing E-Waste Crisis Demands Innovative Solutions*



Electronic waste contains several metals that are valuable or that the US Department of Energy deems essential to economic and national security. Here is the breakdown by weight and value of some of the metals contained in the 62 million t of e-waste generated globally in 2022.



Source: Cornelis P. Baldé et al., Global E-waste Monitor 2024 (Geneva/Bonn: International Telecommunication Union and United Nations Institute for Training and Research, 2024).

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# Solution

## Revolutionizing E-Waste Recycling with Closed-Loop Technology

### Circular Economy in Action: Closed-Loop E-Waste

#### Industrial-Scale Throughput

Capable of processing tens of thousands of pounds of printed circuit boards (PCBs) daily.

#### Closed-Loop System

All materials are reclaimed or reused—no waste, no emissions.

#### Zero Environmental Impact

No solid waste, water discharge, or air pollution—fully sustainable.



# Moving to Scale



**1st scale was built in Ohio in a 30,000 sqft warehouse.**

Site was boot strap funded and began set up in 2019

COVID dramatically impacted the business as funding was limited and workforce was impacted. Site was closed down in 2022

Proved that the technology significant increased recovery rates compared to traditional methods of recovery

40 process runs from facility resulted in 12 “off-take” transactions.

The logo for Detroit Ag, featuring the word "Detroit" in a bold, sans-serif font, followed by "Ag" in a similar font, with the "A" and "g" enclosed in a square frame.

### Efficient by Design: Scalable E-Waste Solutions

#### **Zero Waste**

No landfill use, no emissions—everything is reused or reclaimed.

#### **Scalable**

Modular design enables fast, efficient expansion.

#### **Profitable**

Recovers high-value metals like gold and palladium with strong margins.

#### **Environmentally Superior**

Outperforms traditional smelting and shredding by eliminating emissions and waste.

#### **Domestic Refining**

Enables precious metal recovery within the U.S., reducing reliance on foreign smelters.

#### **Circular Economy**

Promotes continuous material reuse, reducing extraction and strengthening supply chains.

# Business Model & Financials

*Unlocking Value in E-Waste through Sustainable Recycling*



## Go-to-Market Strategy



### Year 1

Engineer and build Plant 1 for efficiency and scale



### Year 2

Plant 1 operational at 16,000 lb/day  
Plan to scale production 2x



### Year 3

Plant 1 operational at 32,000 lbs/day  
Refinery online EBITDA approximately 40%



### Year 4

Debt repayment  
Equity consolidation  
Plant 2 starting  
Plant 3 planning



### Year 5

Increase EBITDA through scaling established operations

# Business Model & Financials

*Unlocking Value in E-Waste through Sustainable Recycling*



## A Solid Financial Base: Unlocking Value in E-Waste



### Diversified revenue streams

Generating revenue from a mix of precious metals (Au, Ag, Pd) and commodities (copper, fiber glass, plastics, metals), reducing dependence on a single market

### Strong revenue growth

Achieving 27% CAGR through years, driven by increasing demand and operational efficiencies

### Operational excellence

Driving scale and cost savings through workflow optimizations and best practices

### Cost management

Mitigating key cost drivers, such as circuit boards, through strategic sourcing and efficiency initiatives

### Sustainable supply chain

Leveraging our closed-loop system to reduce waste, improve efficiency, and support environmentally responsible practices

### Strong financials

Delivering increased EBITDA returns achieving 38% at scale, financing future CapEx through effective cash flow management

# Business Model & Financials

Unlocking Value in E-Waste through Sustainable Recycling



## Strong Financial Outlook: Growth and Profitability

<i>(in thousands of US dollars)</i>	Year 1		Year 2		Year 3		Year 4		Year 5					
<b>Investment</b>	\$	30,000												
<b>Revenue</b>	\$	-	\$	51,755	100.0%	\$	209,032	100.0%	\$	423,076	100.0%	\$	637,563	100.0%
<b>Expenses</b>	\$		\$		73%	\$		59.3%	\$		51%	\$		52%
<i>CORE Team</i>	\$	1,967	\$	3,090	6%	\$	6,358	3%	\$	11,005	3%	\$	16,202	7%
<i>Cost of Goods</i>	\$	1,296	\$	22,465	43%	\$	89,529	43.2%	\$	178,872	424%	\$	268,178	424%
<i>Marketing</i>	\$	-	\$	56	0.0%	\$	68	0.0%	\$	92	0.0%	\$	104,000	0.0%
<i>Building</i>	\$	1,187	\$	1,263	2%	\$	2,668	1%	\$	5,148	14%	\$	7,770	14%
<i>IT</i>	\$	23	\$	16	0%	\$	44	0%	\$	47	0%	\$	47	0%
<i>CapEx</i>	\$	10,728	\$	9,213	18%	\$	22,659	11%	\$	18,214	4%	\$	19,200	6%
<i>Legal &amp; Professional</i>	\$	1,439	\$	1,358	3%	\$	1,602	1%	\$	1,570	5%	\$	960	0%
<i>Admin</i>	\$	86	\$	105	0%	\$	142	0%	\$	173	0.2%	\$	189	0%
<i>Interest Expenses</i>	\$	1,788	\$		0%	\$			\$			\$		
<b>EBITDA</b>	\$	(18,846)	\$	14,186	27%	\$	25,300	36.7%	\$	207,953	37.8%	\$	324,912	37.8%

*(note: gold prices above are calculated \$4,500/oz)*

# Funding Ask

Partnering to Transform the E-Waste Industry

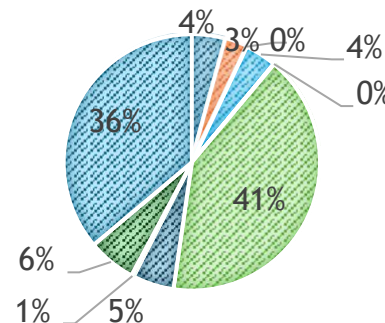


## Empowering Expansion: Investment for a Brighter Tomorrow

We're seeking **\$30 million\*** in debt and/or equity financing to fuel our **flagship plant\*\*** expansion, unlock full production capacity, and accelerate growth, profitability, and market leadership.

### USE OF FUNDS (IN THOUSANDS OF US DOLLARS)

- CORE Team \$1,265
- IT \$19
- Interest \$1,788
- Cost of Goods \$821
- CapEx \$12,151
- Inventory/Intake \$10,654
- Marketing \$-
- Legal C Professional \$1,539
- Building \$1,171
- Admin \$92



\* Funding enables full economies of scale; alternative funding options available for phased growth or reduced scope.

\*\* Part of a larger strategic growth initiative with potential for further domestic and international expansion.

### Join the Journey to **Invest in a Sustainable Future**



**Brandon Metzger, Founder**

20+years in operations, executive leadership and scaling businesses, BA Economics from Ohio University

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#### **Long-term investment**

10 years of investment in technology and solution development demonstrate commitment and perseverance

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#### **Intellectual Property**

2 patents completed and 1 pending, with potential for further protection through process improvements

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#### **Proven technology**

Pilot operations and prior generated revenues validate the machinery and process

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#### **Scaling for profit**

The need to scale production highlights the potential for significant growth and increased profitability