enviroleach

Technologies

Changing the way the world recovers GOLD

Oct 15, 2020

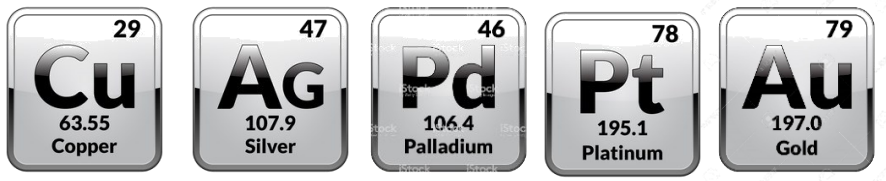
Safe Harbor | Forward Looking Statements

This Presentation contains “forward-looking information” and “forward looking statements” within the meaning of applicable Canadian and United States securities legislation. Statements contained herein that are not based on historical or current fact, including without limitation statements containing the words “anticipates,” “believes,” “may,” “continues,” “estimates,” “expects,” and “will” and words of similar import, constitute “forward-looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking information may include, but is not limited to, information with respect to our Research and Development activities, the accuracy of our capital and operating cost estimates; production and processing estimates; the results, the adequacy of EnviroLeach’s financial resources and timing of development of ongoing research and development projects, costs and timing of future revenues or profits and adequacy of financial resources. Wherever possible, words such as “plans”, “expects”, “projects”, “assumes”, “budget”, “strategy”, “scheduled”, “estimates”, “forecasts”, “anticipates”, “believes”, “intends”, “targets” and similar expressions or statements that certain actions, events or results “may”, “could”, “would”, “might” or “will” be taken, occur or be achieved, or the negative forms of any of these terms and similar expressions, have been used to identify forward-looking statements and information. Statements concerning future revenue or earnings estimates may also be deemed to constitute forward-looking information. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance are not statements of historical fact and may be forward-looking information. Forward-looking information is subject to a variety of known and unknown risks, uncertainties and other factors that could cause actual events or results to differ from those expressed or implied by the forward-looking information. Forward-looking information is based on the expectations and opinions of EnviroLeach’s management on the date the statements are made. The assumptions used in the preparation of such statements, although considered reasonable at the time of preparation, may prove to be imprecise. We do not assume any obligation to update forward-looking information, whether as a result of new information, future events or otherwise, other than as required by applicable law. For the reasons set forth above, prospective investors should not place undue reliance on forward-looking information. The CSE has not approved or disapproved of the information contained herein.

Who is EnviroLeach?

WHO IS ENVIROLEACH…

*EnviroLeach is an ESG focused technology company offering the **ONLY** cost-effective and sustainable alternative for the recovery of valuable metals from E-Waste and Gold Ores…*



(ESG – Environmental, Social & Governance)

Who is EnviroLeach?

HOW ENVIRONMENTALLY FRIENDLY??

- *All ingredients are **FDA approved** for human consumption…*
- *Operates at ambient pressure and temperature*
- *Produces no waste-water*
- *No off-gassing*
- *Formula/solution is reusable*
- *Reduced C02 emissions*
- *Reduced landfilling of PCBA non-metallic byproducts*

FDA U.S. FOOD & DRUG ADMINISTRATION

EnviroLeach at a Glance…

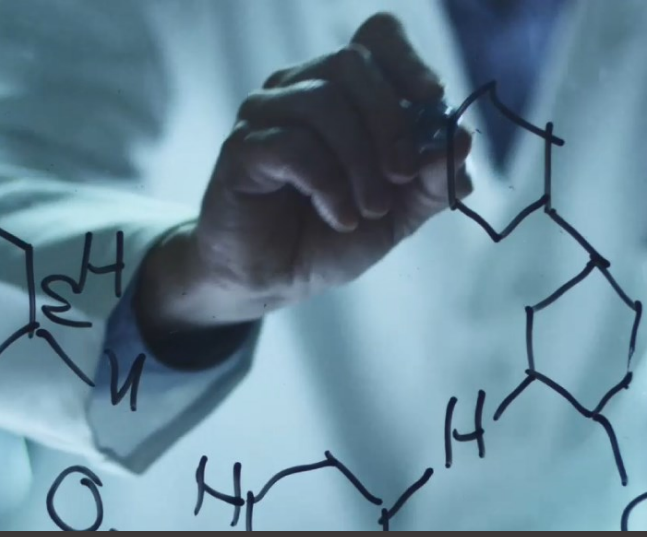
ENVIROLEACH AT A GLANCE…

- Developed a proprietary and environmentally-friendly printed circuit board assembly recycling technology and have a 3,600 TPA process plant completed.
- Developed a proprietary hydrometallurgical chemical reagent for the extraction of gold from PCBAs and gold ores and has been successfully tested at full scale.
- EnviroLeach technology uses water and inorganic, reusable chemistry and is the **ONLY** cost-effective & ECO-friendly alternative to the use of cyanide & smelters.
- Significantly reduced environmental impact and permitting process vs. traditional mining, cyanide, mercury or smelting processes.

Key Business Drivers

KEY BUSINESS DRIVERS…

- **$45B E-Waste sector needs environmentally friendly technology for E-Waste**
  E-Waste sector dominated by smelters to extract precious metals from recycled printed circuit board assemblies (PCBA)
- **$120B gold mining sector needs clean, sustainable alternatives**
  Gold sector dominated by cyanide and smelters for gold extraction form ores and concentrates
- **Technology proven at commercial levels at company owned facility**
  3,600 tonne per annum PCBA facility completed and ramping up, gold concentrate pilot plant complete
- **Solid barriers to entry with strong intellectual property and early mover status**
  Little or no competition offering eco-friendly alternatives in either sector
- **E-Waste division generating diversified feedstock supply chain**
  Strong interest globally for cost-effective alternative to the smelting of PCBA's
- **Go-forward business model with 3,600 TPA PCBA process facility**
  Business model focusses on low-risk global licensing/royalty model

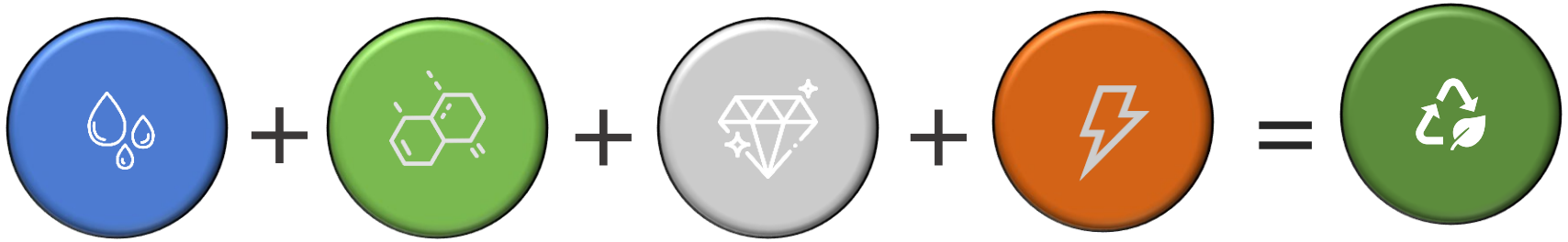


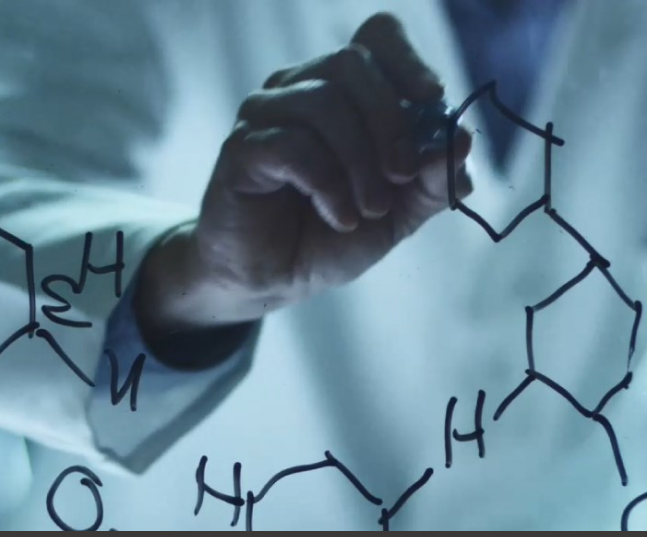
EnviroLeach Advantage

THE ENVIROLEACH ADVANTAGE…

A SIMPLE EQUATION THAT SOLVES A VERY COMPLEX PROBLEM…

Unique inorganic electrochemical formula





EnviroLeach Advantage

THE ENVIROLEACH PROCESS…

STEP 1 DISSOLUTION

Valuable metals in host material are dissolved into proprietary EnviroLeach solution…

STEP 2 EXTRACTION

Metals are recovered from solution using ION Exchange and electrowinning. EnviroLeach solution is regenerated for reuse in next cycle

STEP 3 RECOVERY

Final products are refined into pure marketable form…

Target Markets

APPLICATIONS/TARGET MARKETS…

E-Waste Recycling Sector $8.5 B Global Market

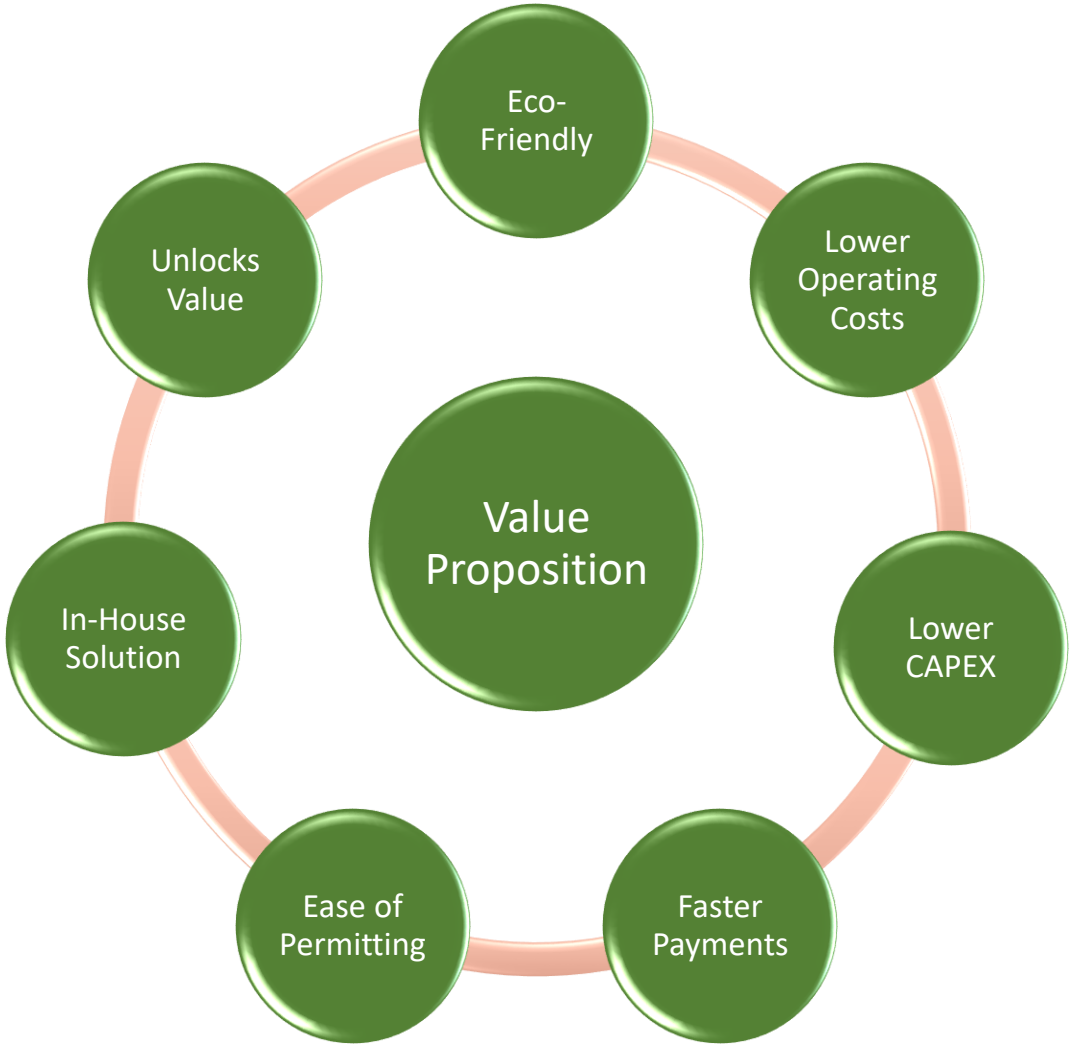
- Focused on Printed Circuit Board Assemblies (PCBA)
- 166,000 tonnes of scrap PCBAs produced each month
- Global scrap PCBA market expected to reach $13.34B by 2026
- Cost effective recovery of contained metals (Au, Ag, Pd, Sn, Cu)
- The **only** eco-friendly alternative to smelting
- Reduction of carbon emissions and logistics compared to smelting
- EnviroLeach would be the only US domestic Solution for PCBA's

Gold Mining Sector $180 B Global Market

- Gravity and flotation mine concentrates
- High grade whole ore processing
- Non-invasive In Situ Gold Recovery
- High recoveries and fast leach kinetics
- The **only** eco-friendly alternative to cyanide and smelters
- Unlocking value of small deposits
- Lower CAPEX/OPEX

Value Proposition

VALUE PROPOSITION…

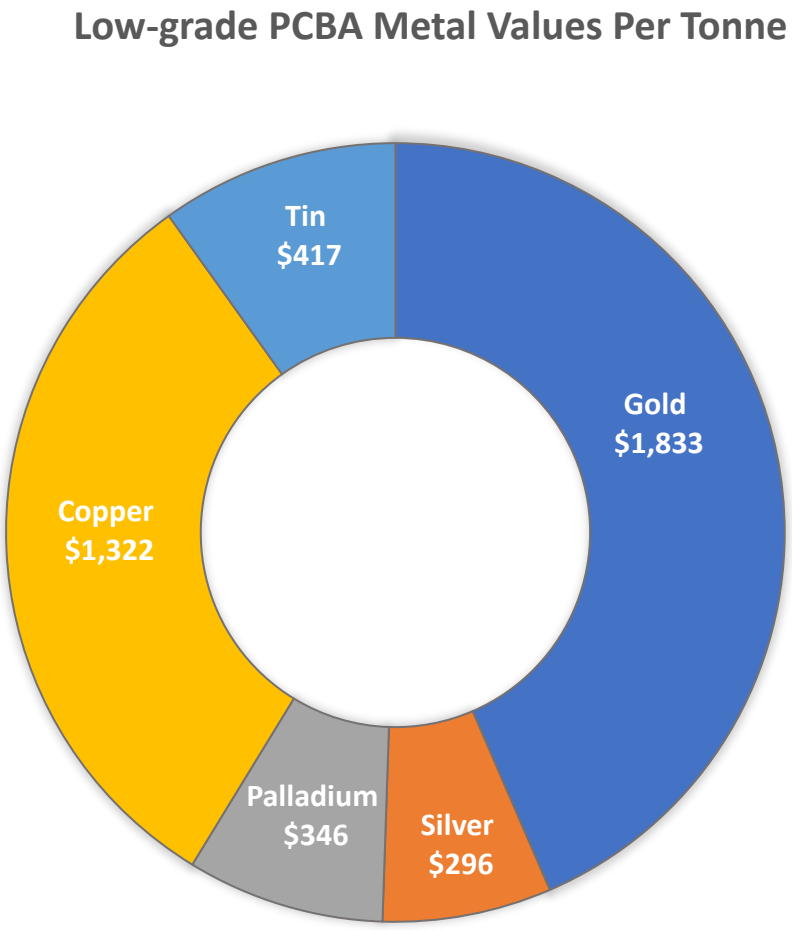


Target Markets

E-Waste/PCBA Recycling Sector…

The Value of PCBAs…

VALUE OF RECYCLED PRINTED CIRCUIT BOARDS…



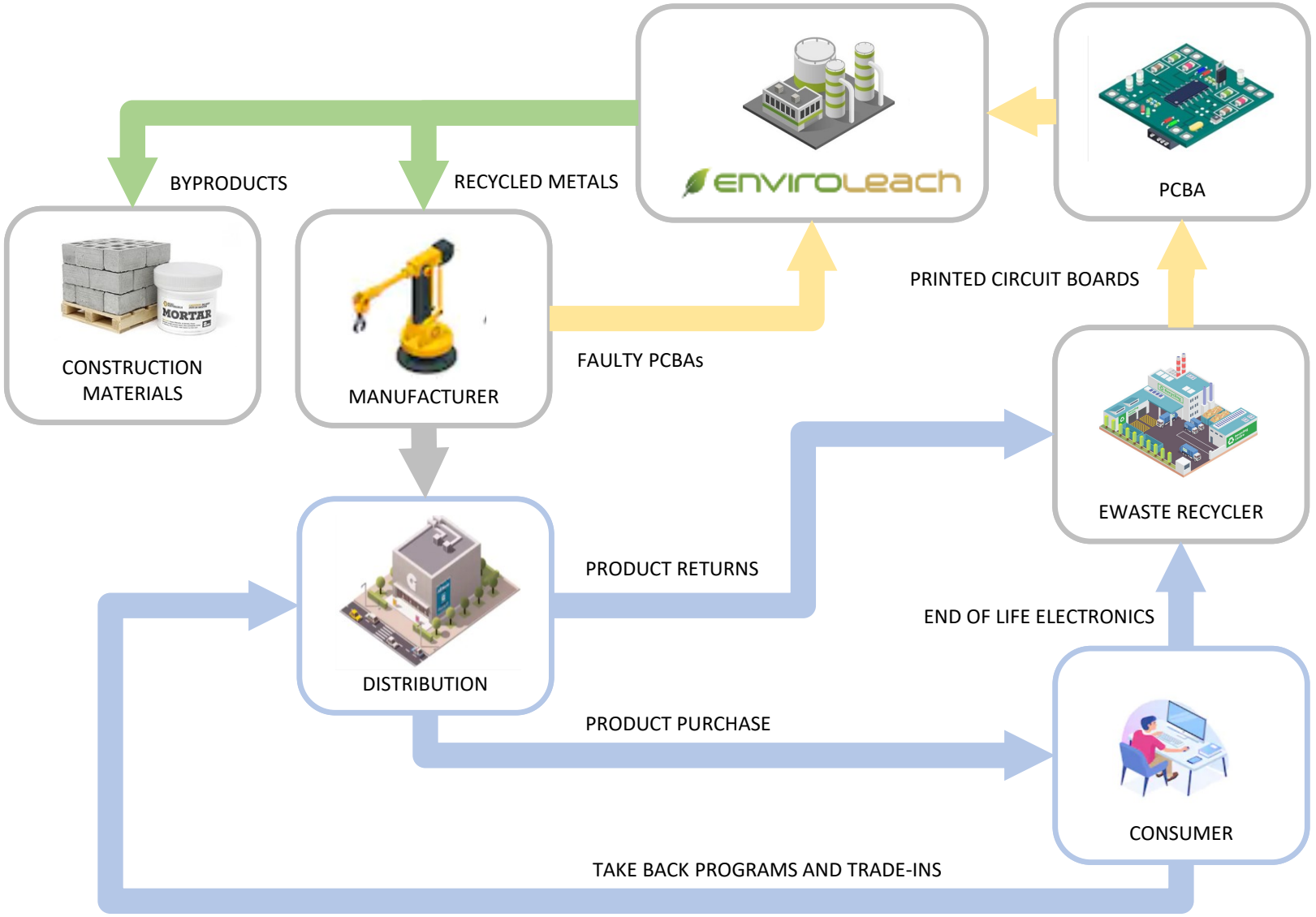
Typical Value of Scrap PCBAs is over $4,000 USD per Tonne…

50-70 times the grade of conventional gold ores

**Assumes the following metal grades: (Au-30 ppm, Ag-450 ppm, Pd-6 ppm, Cu-19%, Sn-3.5%). Economics are estimates only and should not be relied upon. Metal grades are subject to variability by PCBA.*

The Circular Economy…

THE ENVIROLEACH PCBA CIRCULAR ECONOMY…



Licensing & Royalty Models

E-WASTE/PCBA LICENSING OPPORTUNITIES…

EnviroLeach's vision is to partner globally with existing recycling centers. This will enable recyclers to extract value from PCBA's directly and avoid smelter fees and shipping costs. Hundreds of potential partnerships are already identified.

E-Waste Recycler

+

EnviroLeach Module

E-Waste recycling centers can drive additional profit by simply adding an EnviroLeach Module…

Licensing & Royalty Benefits

E-WASTE/PCBA LICENSING BENEFITS…

Benefits to existing E-Waste recyclers include:

- In-house production of precious metals
- High payable metal amounts (including the addition of tin value)
- Lower processing costs
- Lower shipping and logistics costs
- Higher revenue from PCBA processing for other regional recyclers
- In-house sorting of PCBAs by category and grade no longer necessary
- Potential revenue from the sale of substrate by-products
- Easy permitting process
- Environmentally friendly and sustainable alternative
- Domestic national solution
- “Green” competitive advantage over other recyclers

E-Waste recycling centers can drive additional profit by adding an EnviroLeach Module…

E-Waste (PCB) Options

ENVIROLEACH VS SMELTERS…

	SMELTERS	ENVIROLEACH
Effective recoveries of precious metals	✓	✓
Eco friendly & sustainable process	✗	✓
Low greenhouse gas emissions	✗	✓
Higher payable metals	✗	✓
No minimum shipment amounts	✗	✓
Domestic on-site treatment	✗	✓
Economic tin (Sn) payable recoveries	✗	✓
“Green” Competitive Advantage	✗	✓

Commercial PCBA Plant

COMPLETED PCBA PROCESSING FACILITY…

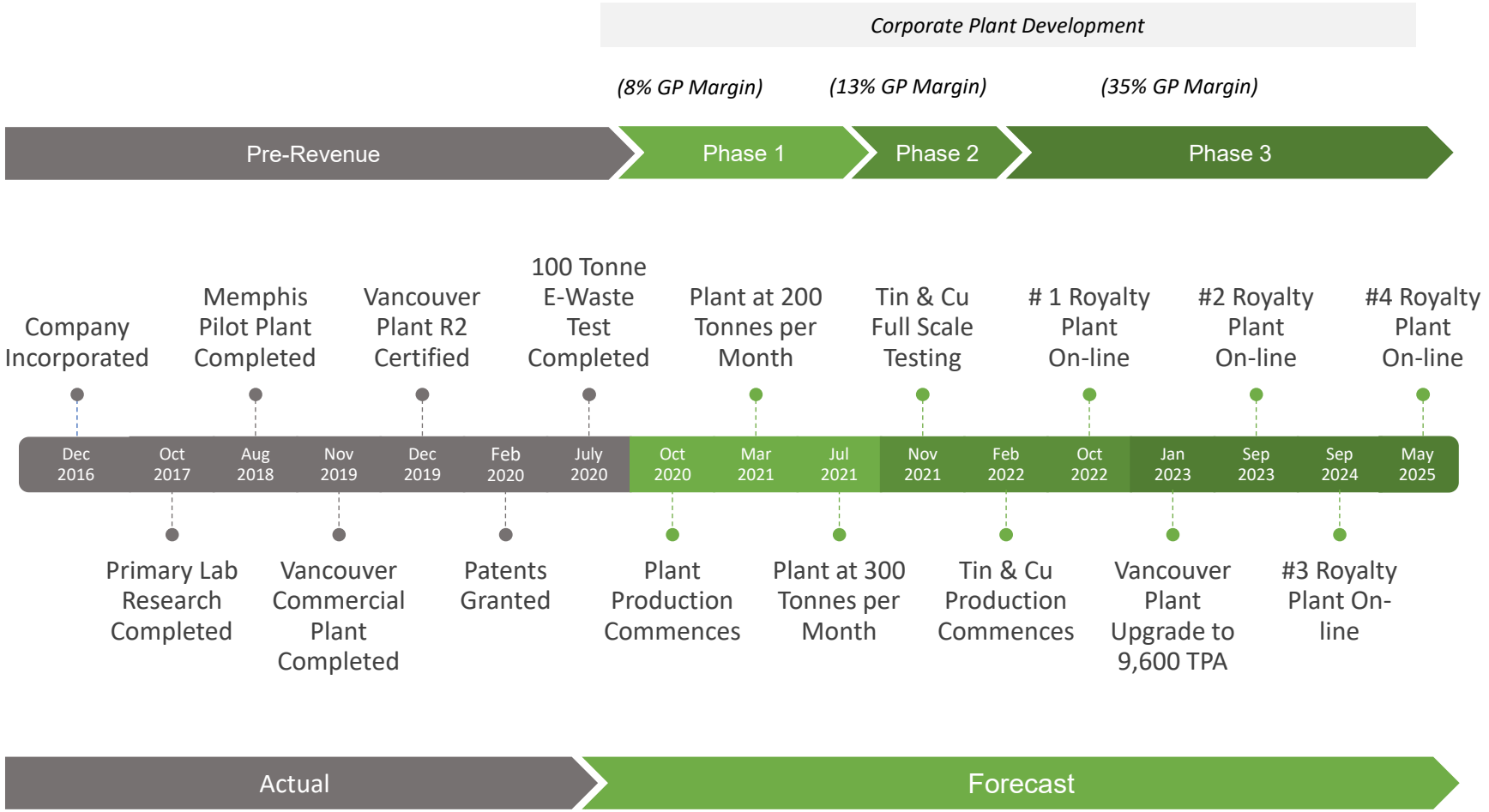
- Fully certified R2/RIOS facility
- Capacity 3,600 tonnes of PCBA per annum
- Size & Location: 26,000 sq ft., Vancouver, Canada
- Identifying and securing global feedstock/offtake agreements
- Establishing partnerships with electronics manufacturers, OEM's and recycling companies
- Modular design

Process Flowsheet

PCBA PROCESSING FLOW SHEET…

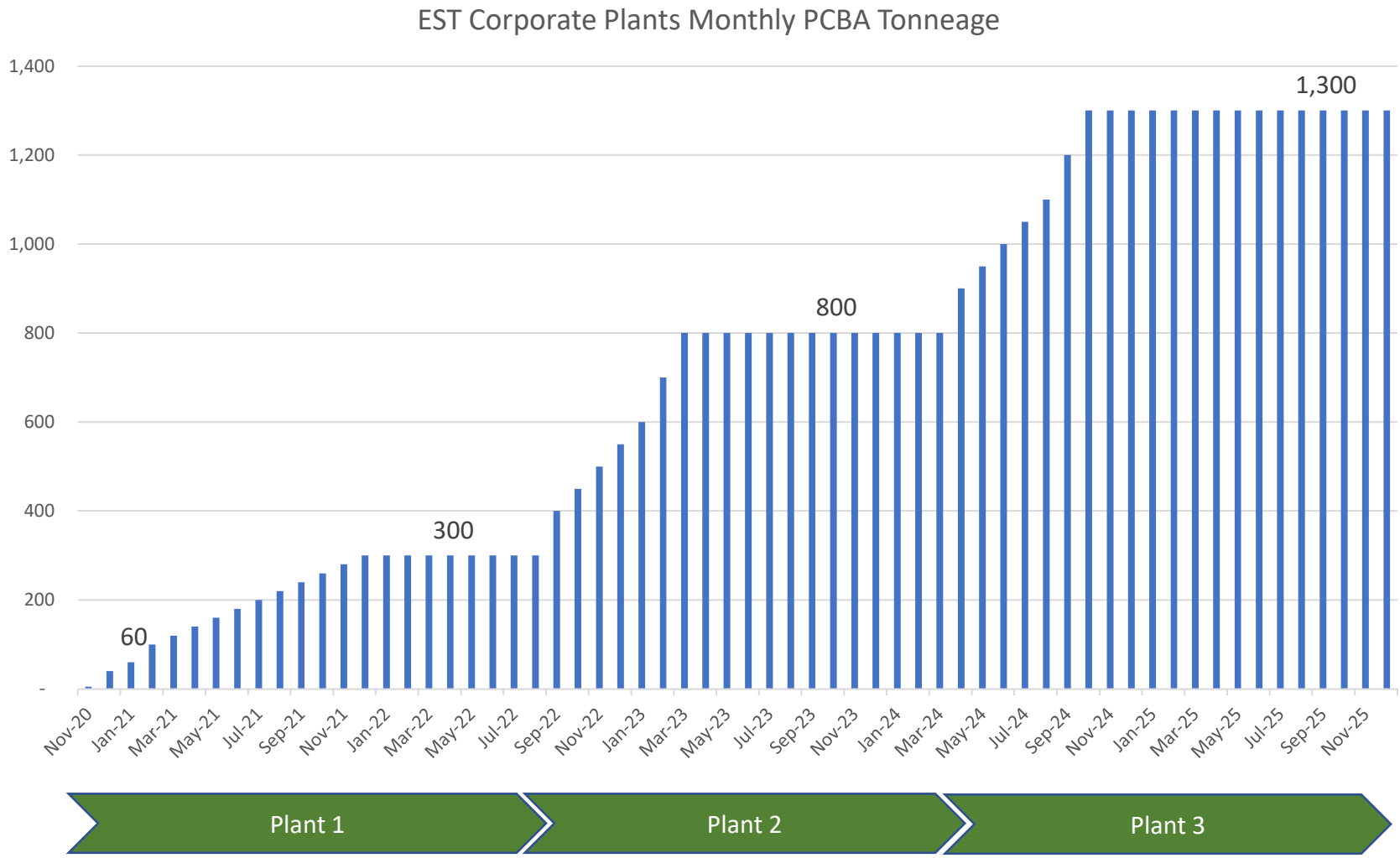
Key Milestones

E-WASTE DIVISON TIMELINES…



Tonneage Growth…

Corporate PCBA Plants EST Tonnes/Month…



**Assumes the following metal grades: (Au-30 ppm, Ag-450 ppm, Pd-6 ppm, Cu-19%, Sn-3.5%). Economics are estimates only and should not be relied upon. Metal grades are subject to variability by PCBA.*

Profit per Tonne…

Corporate PCBA Plants EST Profit/Tonne…

**Assumes the following metal grades: (Au-30 ppm, Ag-450 ppm, Pd-6 ppm, Cu-19%, Sn-3.5%). Economics are estimates only and should not be relied upon. Metal grades are subject to variability by PCBA.*

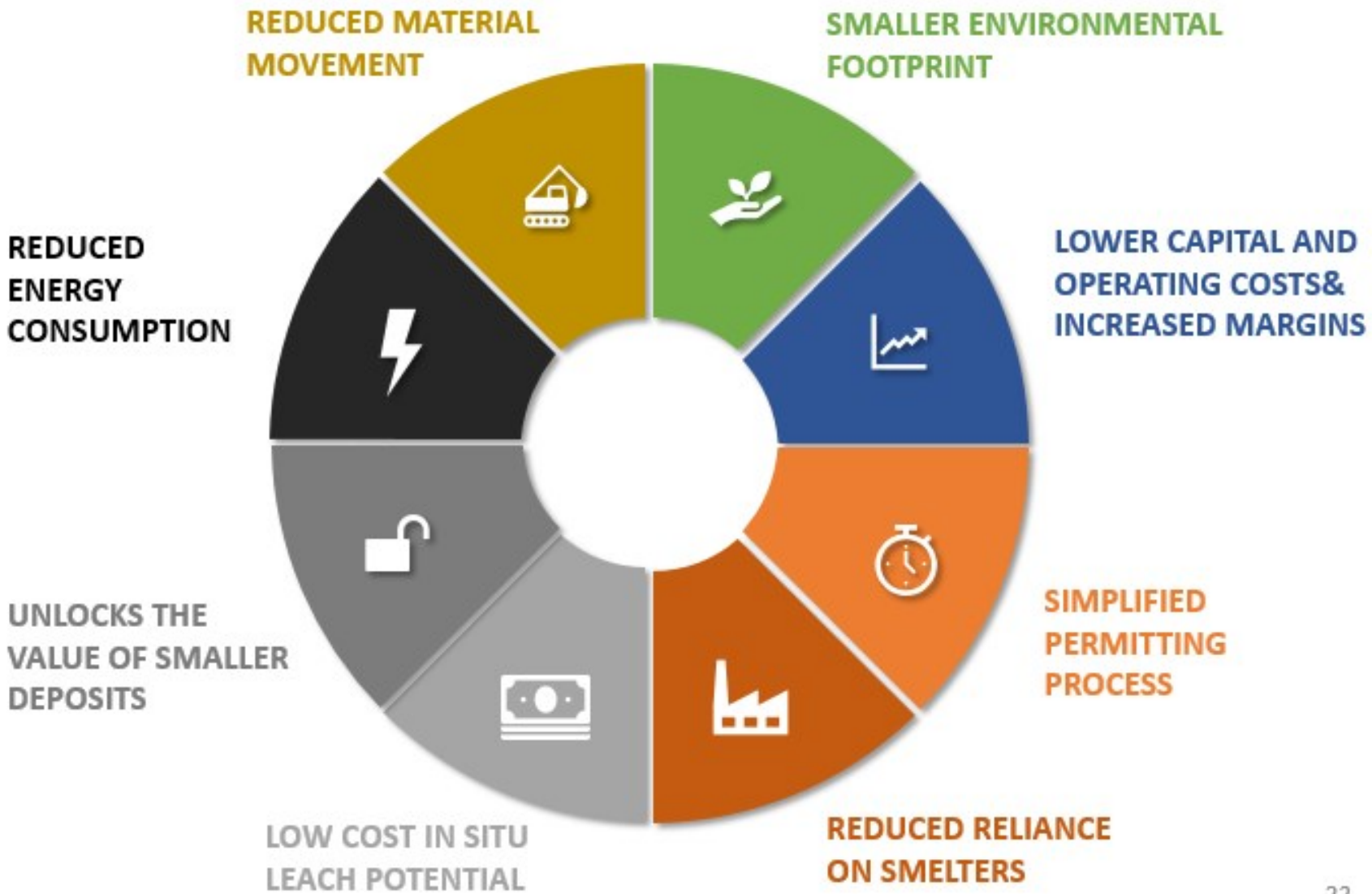
Target Markets

Gold Mining Sector…

The Future of Gold Mining...

enviroleach

ECONOMIC BENEFITS – GOLD MINING SECTOR...



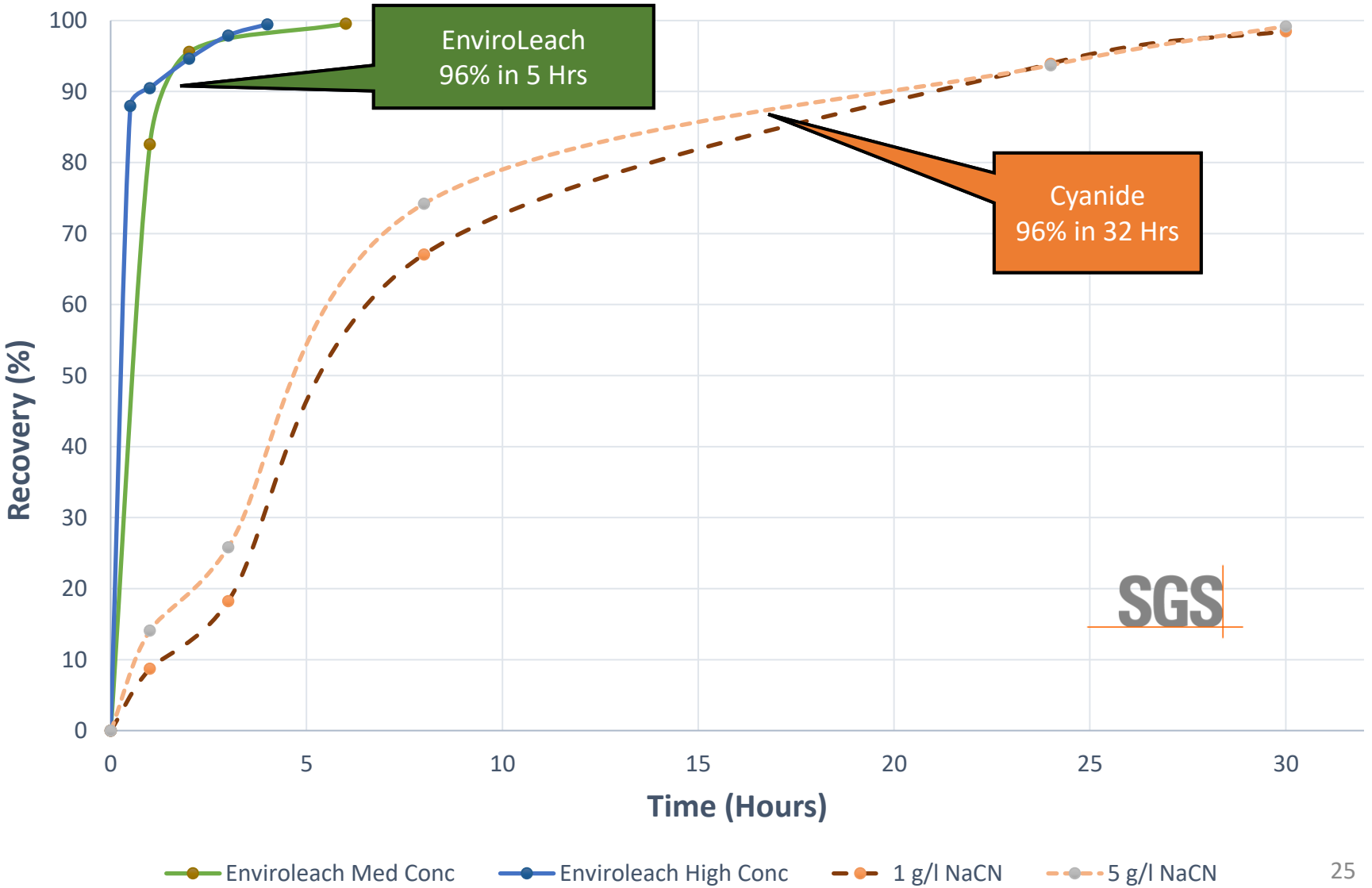
Cyanide Comparison

ENVIROLEACH VS CYANIDE…

	Cyanide	EnviroLeach
High gold recoveries	✓	✓
Fast leach kinetics	✓	✓
Environmentally safe & sustainable	✗	✓
Safe to handle & transport	✗	✓
Socially acceptable	✗	✓
No potential for dangerous off-gassing	✗	✓
No dangerous waste-water effluent	✗	✓
Functions in the presence of copper	✗	✓
Has potential for In-Situ gold recovery	✗	✓

Cyanide Recovery Comparison

ENVIROLEACH VS CYANIDE…

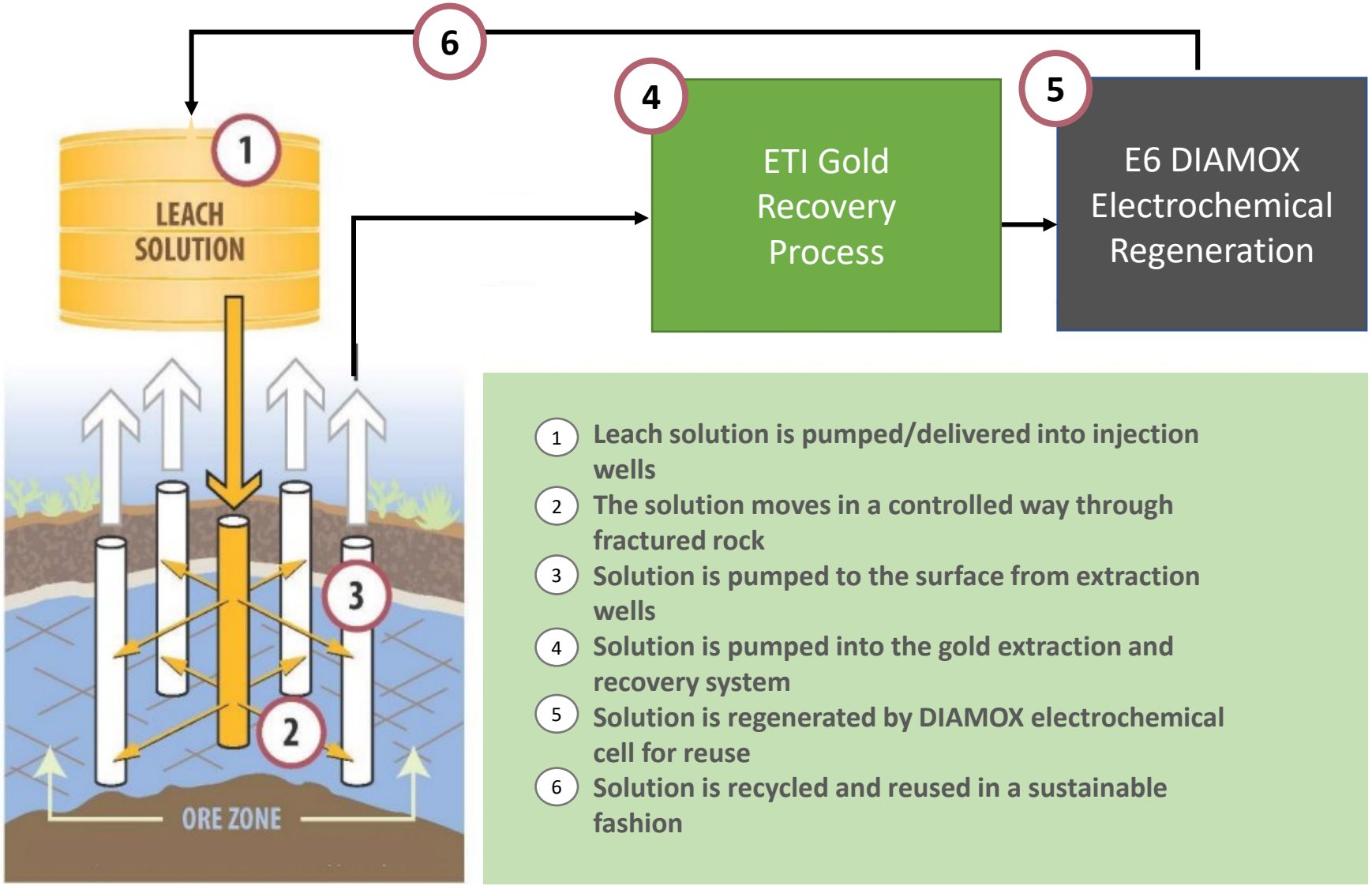


The Future of Gold Mining...

Gr 11 111.11 Group 11

enviroleach

NON-INVASIVE IN-SITU GOLD RECOVERY…



1. Leach solution is pumped/delivered into injection wells
2. The solution moves in a controlled way through fractured rock
3. Solution is pumped to the surface from extraction wells
4. Solution is pumped into the gold extraction and recovery system
5. Solution is regenerated by DIAMOX electrochemical cell for reuse
6. Solution is recycled and reused in a sustainable fashion

Patent Protection

STRONG INTELLECTUAL PROPERTY RIGHTS…

Two Patents Issued, One Pending

1. The chemistry patent was granted in December 2019 (***PATENT GRANTED)***
2. Diamond-based electrochemical process technology granted January 2020. (***PATENT GRANTED)***
3. A third application filed covering the recovery & reuse of the chemical formulas. (***PATENT PENDING***)

Sustainable Development

UNITED NATIONS SUSTAINABILITY TARGETS…

NGO Sustainability Inc.
PROMOTING SUSTAINABLE LIVING FOR THE FUTURE OF OUR PLANET

enviroleach

Certifications & Partnerships

CERTIFICATIONS & PARTNERSHIPS…

SUSTAINABLE DEVELOPMENT GOALS

GLOBAL CHANGE FOR CHILDREN

NGO Sustainability, Inc.
In Consultative Status with the United Nations Economic and Social Council

11 Gr 111.11 Group 11

ISRI Institute of Scrap Recycling Industries, Inc.
Voice of the Recycling Industry™

TERRA THE ELECTRONICS REUSE & RECYCLING ALLIANCE

emew clean technologies

sepro laboratories

elementsix™ DE BEERS GROUP

Canada NRC·CNRC

Mitacs Elevate

Why Invest in ETI?

INVESTMENT CONSIDERATIONS…

- One patented technology addressing two market sectors totaling $193B with existing environmental and sustainability challenges,
- Technically and cost competitive, scalable and environmentally sustainable with little or no competition in 2 - multi $Billion sectors,
- Significantly de-risked - development complete and entering revenue Q4 2020, full scale operations targeted Q3 2021 – Partial revenues 2020
- Accelerated deployment via two-phase business model combining corporate operations and licensing model
- Robust R&D pipeline funded in part by the Canadian Government to enhance current PCBA processing profit
- Proven management and highly qualified technology development team

Stock Information

STOCK INFORMATION…

Trading Symbols: ETI:CSE | OTCQB: EVLLF | FSE:7N2

Share Capital Structure	
Common Shares Issued	74,321,001
Warrants Outstanding	3,385,251
Options Outstanding	10,235,000
Fully Diluted	87,941,252

EXECUTIVE TEAM…

Experienced with proven track records and strong industry ties…

Duane Nelson, President, CEO & Director

Mr. Nelson is the founder and CEO of EnviroLeach. He has founded several successful Ventures. Most recently he was the CEO and co-founder of Silvermex Resources Inc., a past TSX listed gold and silver producer. He is the founder of Quotemedia Inc., a successful financial market data company established in 1998, a leading provider of global financial stock market data for the Toronto Stock Exchange, NASDAQ OTC, and others. Mr. Nelson is on the Board of NGO Sustainability Inc., in Consultive Status with the United Nations Economic and Social Council.

Mel Lavitt, Director, Chairman of the Board

Mr. Lavitt has over 50 years of investment banking expertise in emerging growth high tech and middle-market companies. His professional career included hundreds of capital market transactions accounting for several billion dollars of equity and debt financing. Mr. Lavitt also served as a Director of Jabil from September 1991 to January 2016, is on the advisory board of two private companies, TELUS International and Deserve, Inc., and on the board of directors of Storage Engine.

Alexander Ruckdäschel, Director

Mr. Ruckdaeschel brings extensive experience in the successful development of several small cap and mid cap emerging growth companies. Mr. Ruckdaeschel has serves on the Board of Directors of several successful public and private companies, including ERI, the largest fully integrated E-Waste recycler and IT & Electronics Asset Disposition (ITAD) provider in the United States.

Ish Grewal, M.A.Sc., P.Eng., Executive VP

Mr. Grewal has 25 years+ experience in the metallurgical and mineral processing industry, focused on research and development, mineral and hydrometallurgical processing and metal recovery systems. Prior to joining EnviroLeach, he was president and co-founder of Met-Solve Laboratories Inc. He has published and presented e in numerous technical papers in fields of hydrometallurgy, gravity concentration and dense media separation. He earned his Masters degree in Metals & Materials Engineering from The University of British Columbia.

Wayne Moorhouse, COO

Mr. Moorhouse has extensive experience in corporate team building and overseeing company growth. He has held senior management positions with mining and civil construction companies and acted as the COO, CFO, Corporate Secretary or President of several TSX and TSX Venture Exchange listed companies and their subsidiaries, including Roxgold Inc., Midnight Sun Mining Corp., Silvermex Ltd. and Genco Resources Ltd.

Nathalie Pilon, CFO, Corporate Secretary

Ms. Pilon has comprehensive experience in corporate and international operational finance, with an emphasis on corporate governance. She has held senior positions with publicly listed mining corporations, where she has led finance teams through exploration, development, construction, commissioning and operations. Prior to joining EnviroLeach, Ms. Pilon was Director of Finance for Orezone Gold Corporation, and has held senior positions at Roxgold Inc. and Endeavour Mining Corporation.

Hanif Jafari, M.Eng., CTO

Mr. Jafari is a mining and mineral processing engineer with over a decade of experience in research and development. Prior to devoting his fulltime work to EnviroLeach, he was a researcher at the University of British Columbia, in addition to having over 7 years of global experience in leading mining and drilling projects. He holds a master’s degree in mining and mineral engineering from UBC.

enviroleach

Technologies

Changing the way the world recovers GOLD…