



Iondrive Limited | ABN 30 107 424 519

ASX RELEASE

ASX: ION

27th November 2025

CEO'S PRESENTATION – 2025 AGM

Iondrive Limited (ASX: ION) ("Iondrive" or "the Company") is pleased to provide the attached CEO's presentation, being provided at today's 2025 Annual General Meeting.

Authorised for release by the Board of Iondrive Limited.

Further Information

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About Iondrive

Iondrive is developing an innovative metal extraction process using Deep Eutectic Solvent technology (DES). Its initial business case is focussed on battery recycling where the proprietary method is designed to efficiently recover critical metals, including nickel, cobalt, lithium, and manganese, from black mass in a closed-loop, environmentally friendly process. Unlike conventional hydrometallurgical and pyrometallurgical approaches, Iondrive's DES technology operates at lower temperatures, eliminates the need for aggressive acids, and offers a tuneable chemistry that can selectively extract individual metals. Whilst progressing the battery recycling application for its DES technology, Iondrive is actively seeking to expand the commercialisation opportunities into other markets, including mineral processing and Urban mining of e-waste.



Urban Mining: Securing Supply Chains for Critical Minerals

IONSolv™ — High-Value Recovery, Low Environmental Impact

Annual General Meeting

November 2025

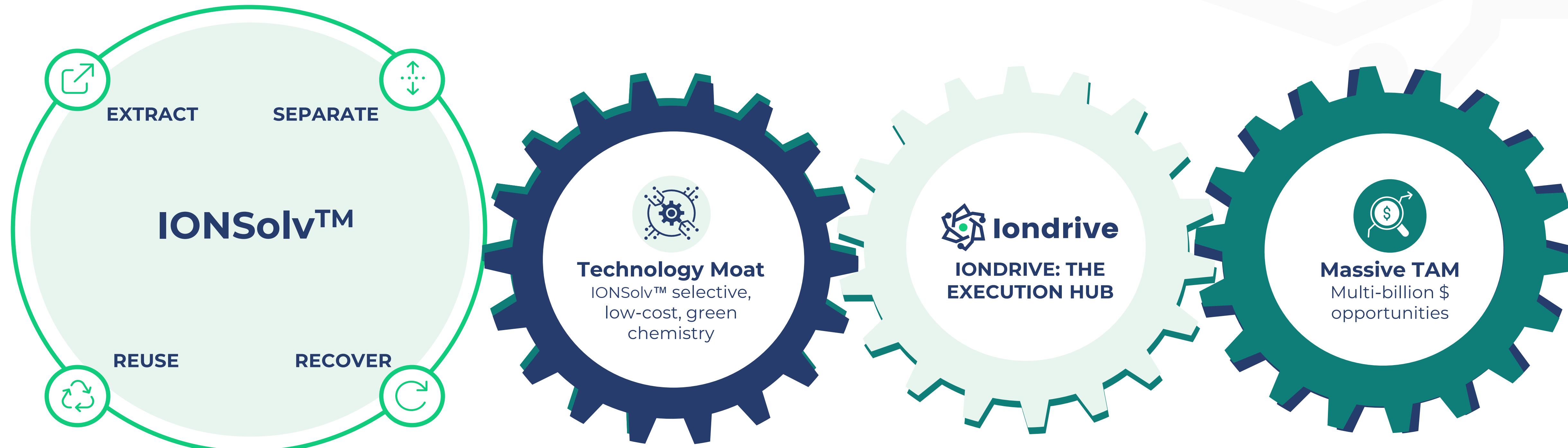
ProProcess
Innovate Design Fabricate

 **colt**
recycling

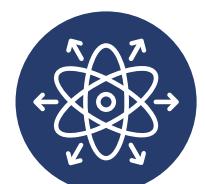
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IONSolv™: A New Standard for Critical Mineral Recovery



Strong IP position with IONsolv™ platform



Modular alternative to smelting and refining across several metals



Strategic Partners:
Colt Recycling,
Livium, PEM
Aachen, TNO,
Fraunhofer

Supply-Chain Dependence and Rising Demand Create Opportunity for Low-Impact Refining

Processing Dominance

Over 80 % of global refining for critical minerals is controlled by Asian operators

Outdated processing

High cost, high waste, low recovery and carbon-heavy

Western Shortfall

Rapid EV and renewable-energy growth is straining domestic supply chains

Sovereign push rising

Governments and OEMs want local supply chains to secure long-term capability

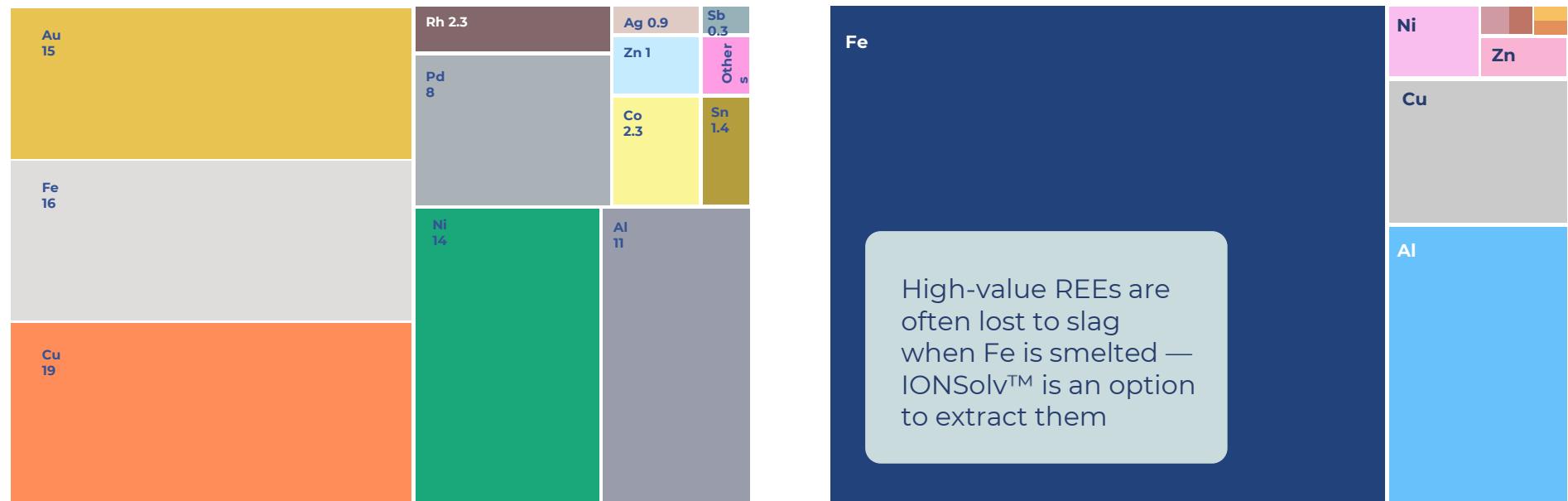


IONSolv™: Unlocking the \$91B E-waste Opportunity

Economic Value of Metals from e-waste

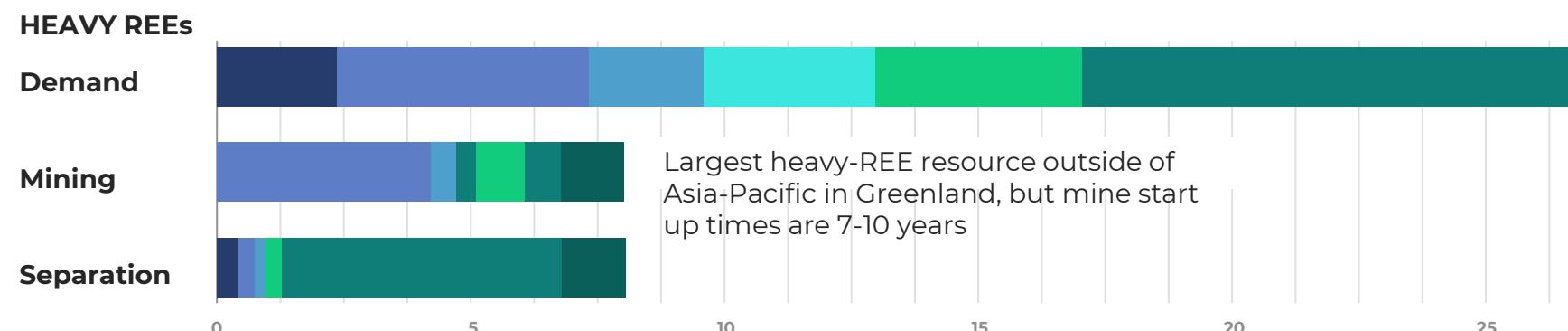
(Before Management) in USD billion (2022)

Metal composition of e-waste by mass



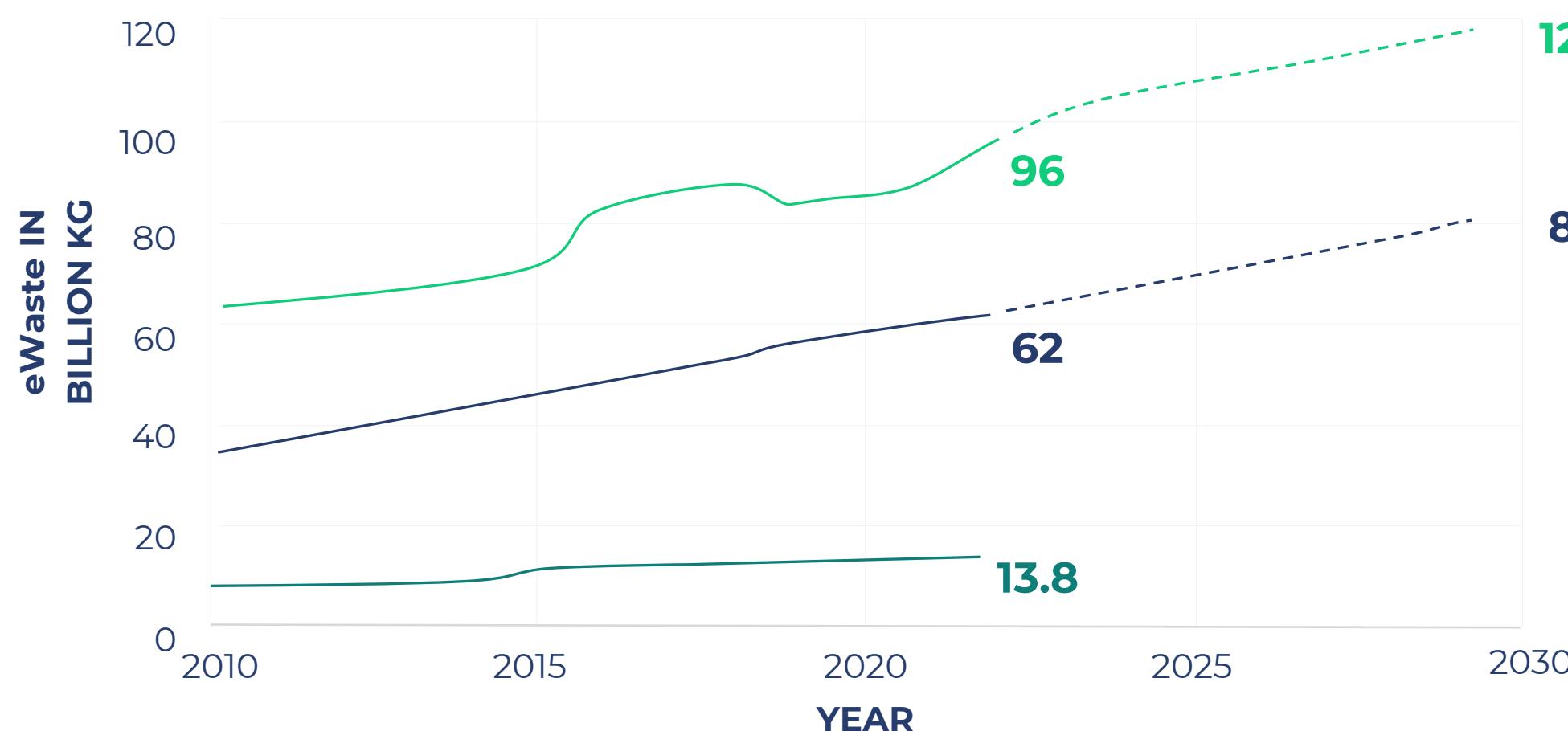
DEMAND, MINING AND SEPARATION SUPPLY FOR LIGHT AND HEAVY RARE EARTH ELEMENTS (REEs) BY REGION, METAL CONTAINED, KILOTONNE, 2035

Legend: China (additions per historical growth), China, North America, Western Europe, Middle East and Africa, Asia-Pacific (excl. China), Rest of the world



GLOBAL MARKET UPSIDE

“Only 22% of e-waste is formally recycled — leaving most metals lost to landfill and slag. Recovering these could strengthen domestic supply chains.”



120 Electrical & Electronic Equipment placed on market

82 e-waste generation

e-waste documented as formally collected and recycled

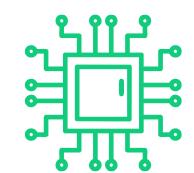
“Beyond gold: IONSolv™ can recover REE's before they're lost* — with PCBs containing up to \$36,000/tonne of recoverable metals.”

Sources: The global E waste monitor: <https://ewastemonitor.info/the-global-eWaste-monitor-2024/> ; Gold recovery from waste: <https://sustainenvironres.biomedcentral.com/articles/10.1186/s42834-022-00118-x>, <https://www.sciencedirect.com/science/article/abs/pii/S0956053X21006759>,

*DES has extracted REE's at bench scale only

From Proof of Concept to Commercial Deployment

Industry-leading recoveries, higher-value outputs, and pilot construction underway — setting the stage for commercial validation in 2026.



e-waste & Electronics

Rare Earth Elements • Copper • Gold • Silver

IONSolv™ technology to be validated on (PCBs) under a SA grant

Colt Recycling (US) partnership to recover REEs and precious metals from e-waste



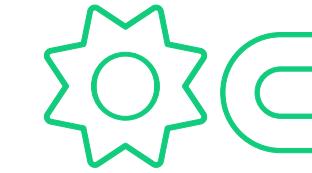
Batteries

Lithium • Nickel • Cobalt • Manganese

98%+ recovery proven in lab trials * — significantly higher than conventional processes (50–85 %)

OEM validation and product qualification to confirm battery-grade output

Pilot commissioning and continuous operation targeted for Q1 2026

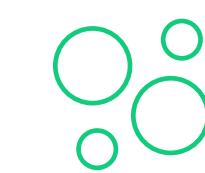


Solar & Magnets

Silver • Silicon • Neodymium/Praseodymium

Livium collaboration providing access to end-of-life solar panels and magnets

Trials underway to recover of high-value silver and silicon



Graphite & Cobalt

Battery-Grade Anode Material

CSIRO project completion (Early 2026) with results on graphite upgrading to battery-grade anode material

Cobalt testwork with LAT66 to confirm recovery efficiency and feedstock scalability

LAB

PILOT

FEED

FID

COMMERCIAL

ProProcess
Innovate Design Fabricate

 **colt**
recycling

RWTHAACHEN
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Iondrive's Closed-Loop Metal Recovery vs Legacy Methods

FROM HIGH-COST RISK

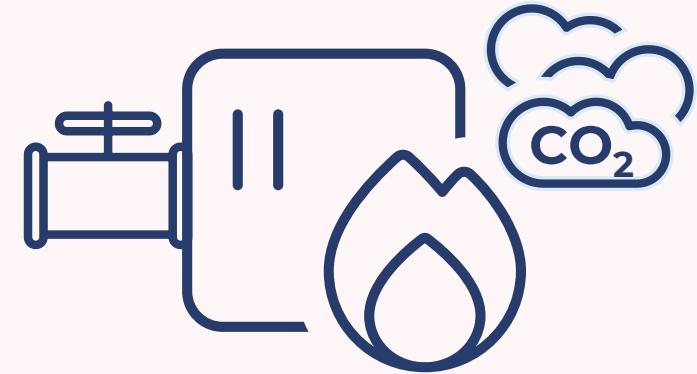
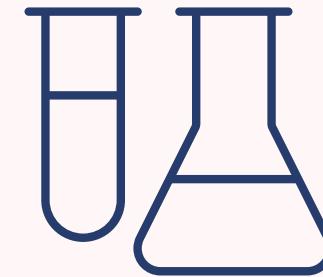
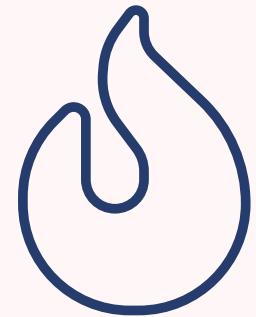
LOW-COST HIGH RECOVERY

STANDARD PROCESS

 HIGH ENERGY

 HIGH REAGENT USE

 OFFSHORED PROCESSING



PYROMETALLURGY
~50-85% metal recovery

HYDROMETALLURGY
~50-85% metal recovery

HIGH-HEAT SMELTING

**CYANIDE/ACID/
KEROSENE
& REFINING**

HIGH CAPEX BURDEN

IONSolv™ CLOSED-LOOP PROCESS

 LOW ENERGY

 NON-TOXIC

 LOW COST

 MORE ENVIRONMENTALLY-FRIENDLY



SOLVOMETALLURGY
Iondrive Recovery ~98%

36% LOWER CAPEX ADVANTAGE

Upgrading to High Value Oxides

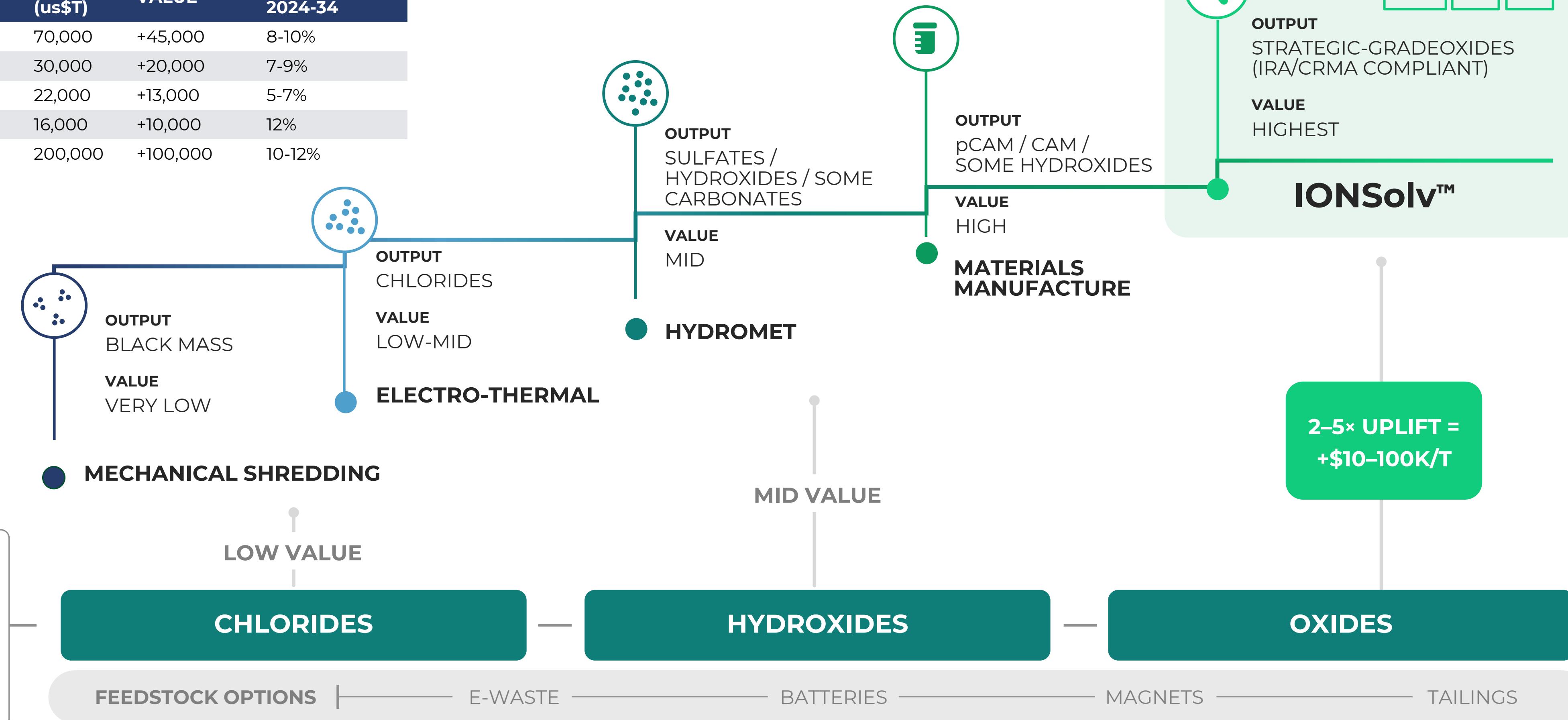
METAL	CHLORIDE (us\$/T)	HYDROXIDE (us\$/T)	OXIDE (us\$/T)	VALUE	CAGR 2024-34
Nd	25,000	40,000	70,000	+45,000	8-10%
Co	10,000	18,000	30,000	+20,000	7-9%
Ni	9,000	14,000	22,000	+13,000	5-7%
Li	6,000	10,000	16,000	+10,000	12%
Dy	100,000	150,000	200,000	+100,000	10-12%

\$1 in ▶ \$2-\$5 out

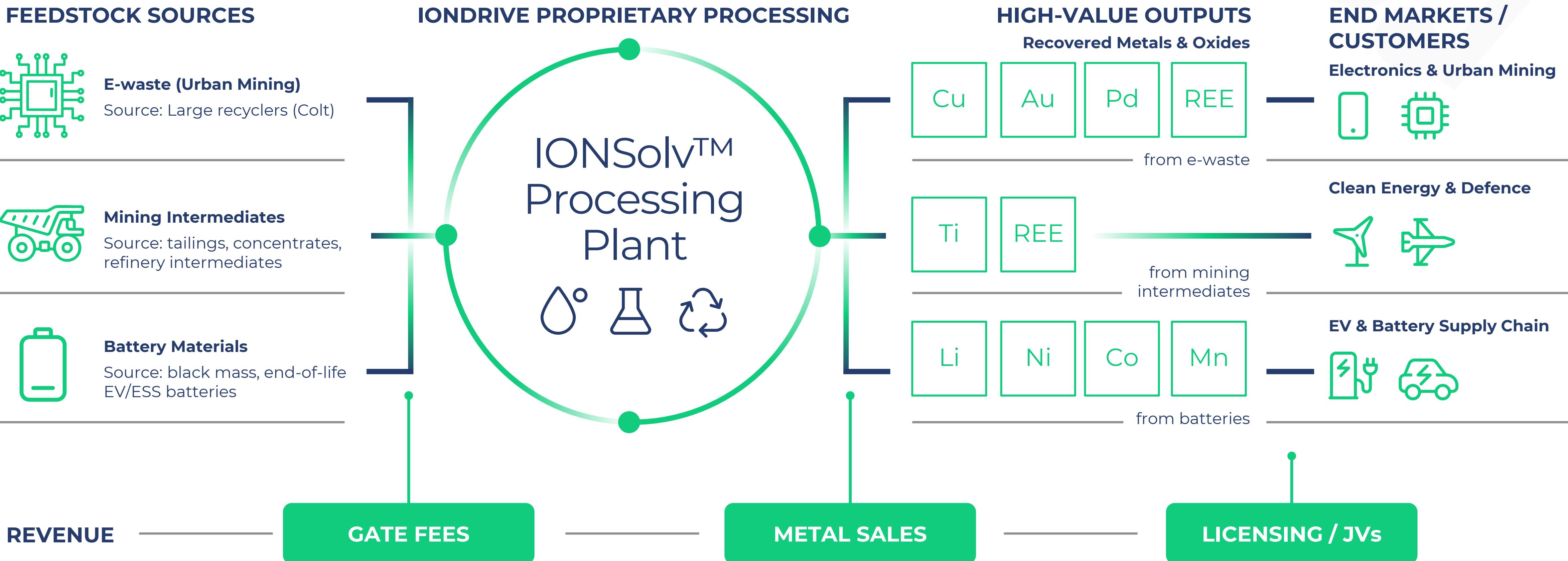
Iondrive unlocks the full value ladder — converting intermediates into strategic oxides that qualify for incentives, secure offtake eligibility, and deliver superior economics

Each upgrade step adds 30-120% value uplift

Nd Co Ni Li Dy

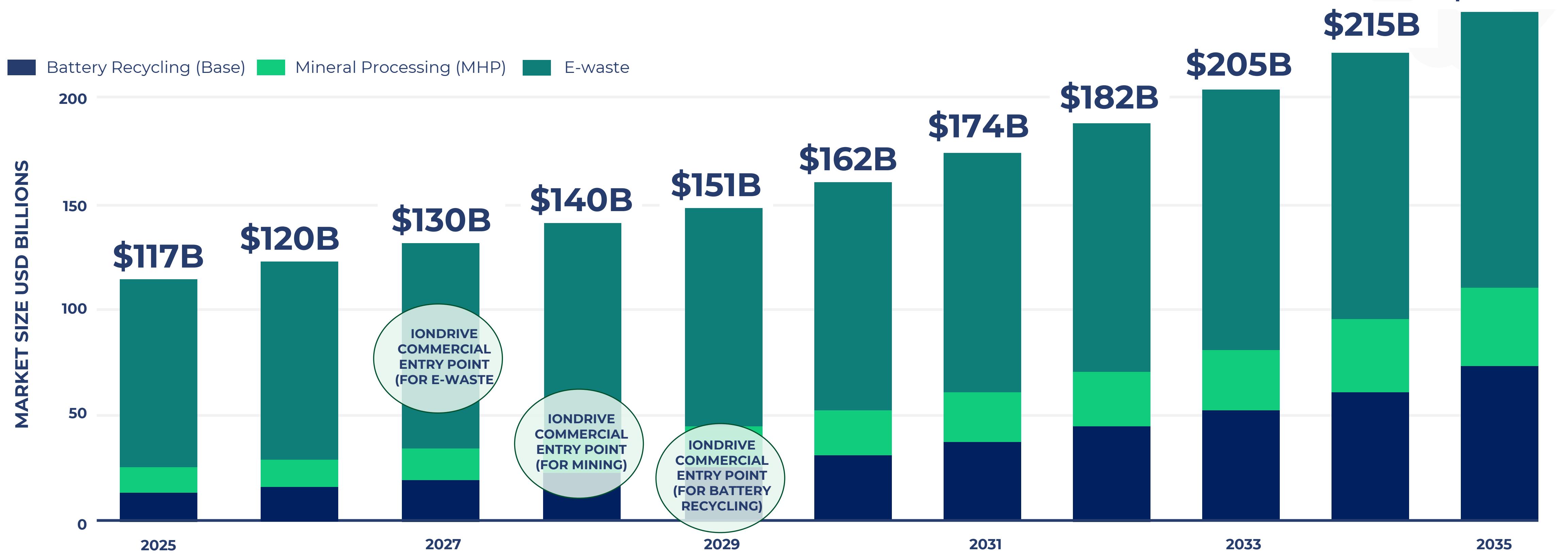


Iondrive Revenue Pathways



Commercialisation Tracks with Soaring Metal Demand

Capturing Value in a combined \$236B Market

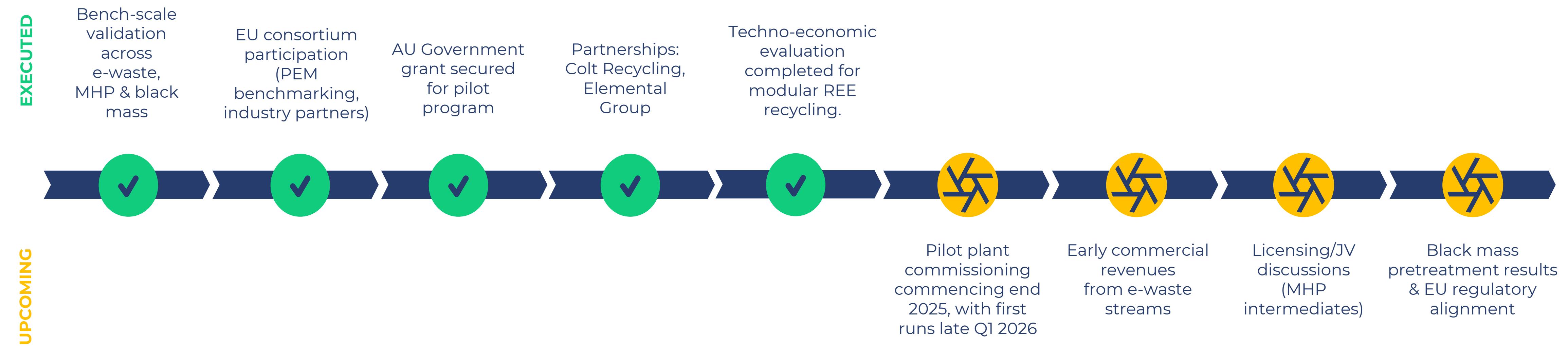


Disclaimer: The markets and timelines shown are **Iondrive's ambitions**, not predictions. Numbers are **indicative** (rounded TAM estimates) based on internal analysis and third-party sources as at **September 2025**. This is **not guidance** or financial product advice; actual results depend on funding, permitting, partners, technology scale-up and market conditions. Starting market size and growth is based on information on slide 4.

Execution Track Record, Value Still Ahead

Delivering upcoming catalysts that build momentum into the Three Horizons of value creation.

A MODULAR, LOW-FOOTPRINT EXTRACTION PLATFORM ENABLING MULTIPLE REVENUE VERTICALS

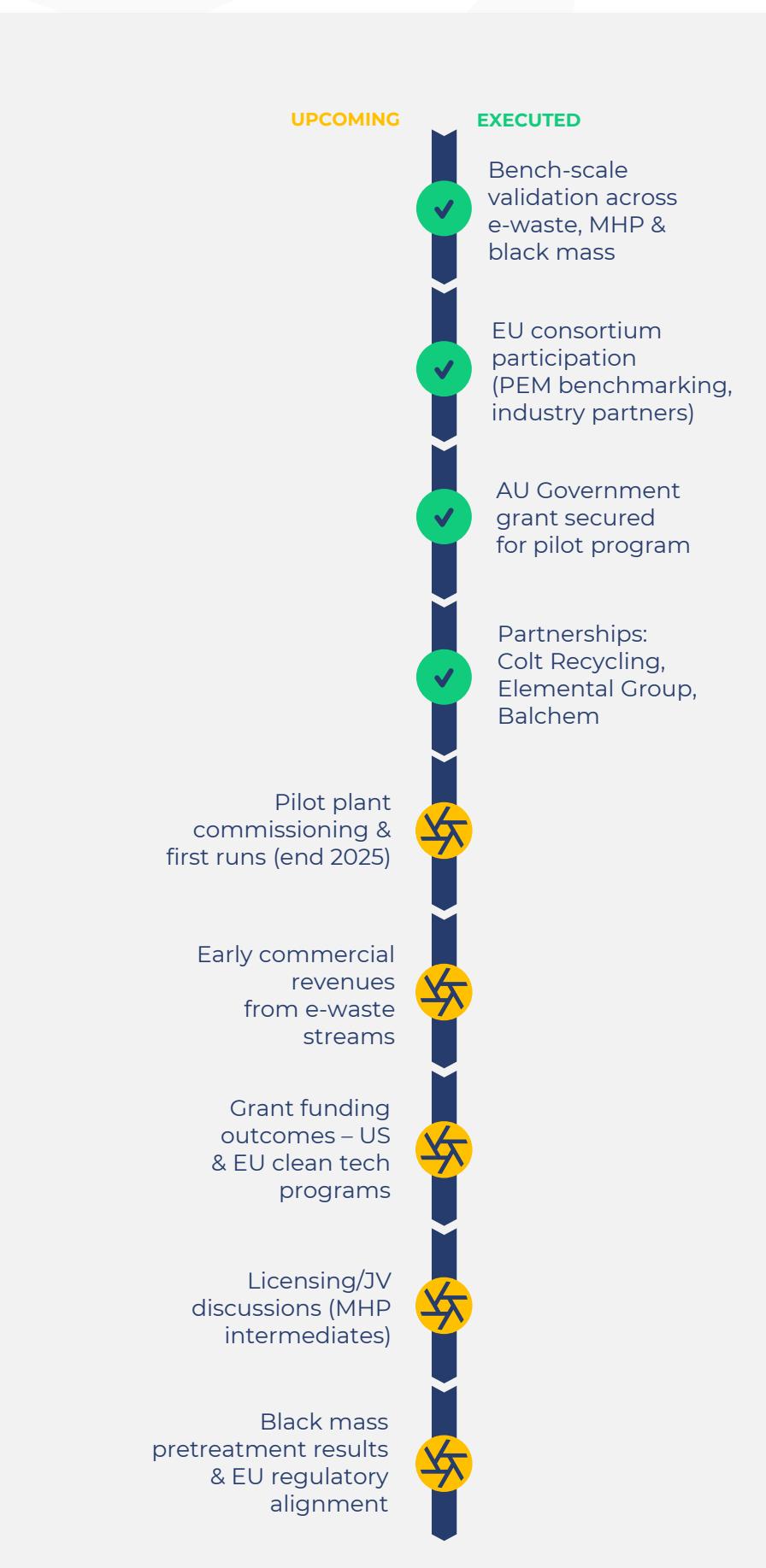
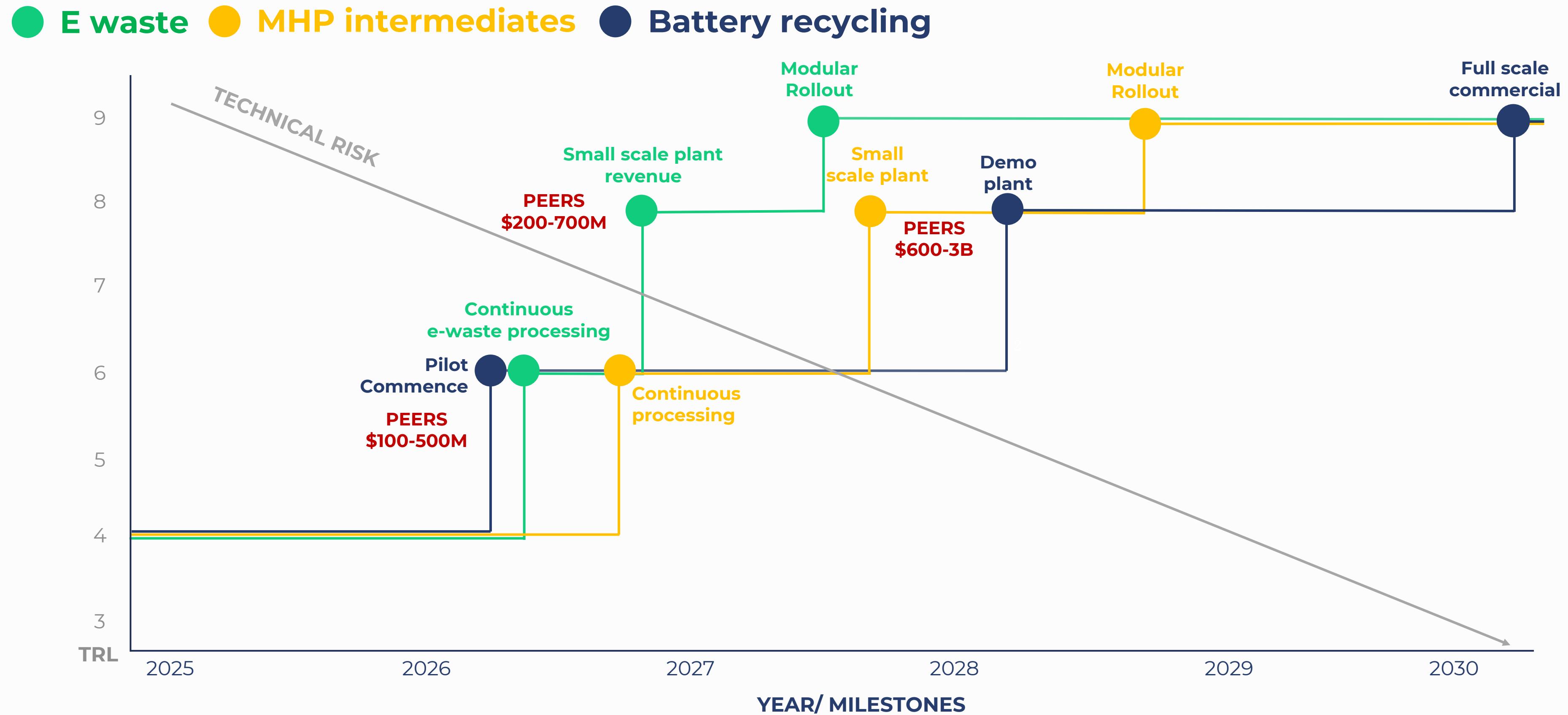


“Our ambition is to deliver value across all three horizons — creating early revenue, scaling into intermediates, and leading in global recycling — while compounding shareholder returns over time.”

Building Value Across Three Horizons

Commercialising across three verticals. As execution compounds, peers* at similar stages have re-rated significantly.

IONSolv™ progresses from TRL 3 → 6 via small scale commercial deployment, advancing toward TRL 9 through modular commercial rollout



*Comprehensive list of peers can be found in the appendix

Global Experience in Mining, Technology, and Commercialisation



Michael McNeilly
Chair - BA Econ

Chief Executive Officer of Strata Investments Holdings Plc. (Substantial shareholder of ION).
Extensive experience in listed companies and is currently NED of ASX-listed Cobre Limited.
Sits on several private company Boards within the Strata Investments Tiger Group.
Past Board appointments include MOD Resources Limited (up to acquisition by Sandfire in November 2019), Metal Capital Limited, Greatland Gold Plc and Connemara Mining Plc.



Dr Jack Hamilton
NED – PhD (Chem Eng)

Highly accomplished senior executive and board director
Significant leadership roles incl. Director of NorthWest Shelf Ventures for Woodside, overseeing Australia's largest resource project.
NED roles include commercialisation of start-ups notably Calix Ltd and Anteo Diagnostix Ltd.



Andrew Sissian
NED – CPA, Macc, Bcom (Finance)

Seasoned corporate and capital markets executive and CPA.
CEO of leading international technology company Procon Telematics, teams in India, US, AU/NZ.
Extensive listed experience, including directly as a Cofounder and NED of Cobre Limited, (ASX: CBE).
Previous institutional banking and equity roles with NAB in Australia and Shanghai and Wilsons Advisory.



Adam Slater
NED - BA

Three decades of invaluable experience in the commodities industry.
Led the development of the commodity division at CWT Limited, a company listed on the SGX, from 2007 to 2018. Pivotal to the growth in the CWT commodities division, which accounted for over 80% of Group revenues (S\$12 Billion out of S\$14 Billion) and in excess of 50% of the Group's profits.
Current primary focus towards venture capital, contributing his expertise to multiple company boards and advisory committees.



Hugo Schumann
NED - CFA, MBA (INSEAD), SEP (Stanford)

Current CEO – USA, Elemental Holding – Leading the U.S. arm of a global metals recycling and refining leader.
Current Founder & CEO – EverMetal – Leading the world's first dedicated PE backed investment platform for critical metals recycling.
Former CEO – Silver, Hindustan Zinc – Led one of the world's largest silver producing businesses.
Former CFO – Jetti Resources – Scaled copper extraction technology to commercial deployment backed BHP and Freeport.



Dr Ebbe Domisse
CEO - B.Eng (Chem) MSc PhD MBA GAICD

Seasoned professional with over 25 years of commercialising technologies, execution, and manufacturing.
Previously served as the COO at Circa Group, an Australian startup that commercialised a biochemical process from lab-scale to commercial scale.
Prior, as GM of Pact Group, an ASX-listed manufacturer, responsible for establishing a world-class plant in Indonesia.



Ray Ridge
CFO & Company Secretary BA(Acc), CA, GIA(cert)

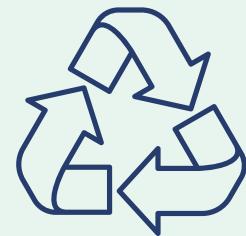
A senior financial and commercial professional with over 30 years experience across a diverse range of industries.
CFO and capital markets experience with four other ASX listed companies, with two in technology commercialisation.
Previous roles include National GM Commercial in a large global engineering firm (now WSP Global) and CFO of the agricultural products division of Elders Limited.



Lewis Utting
Commercial Director BAppSc, GAICD

Former Managing Director and CEO of ASX listed SciDev Ltd, driving rapid growth and shareholder returns.
Previously BASF Global Business Development and R&D manager for Mining.
20 years experience in business management servicing chemical, mining, water treatment, and oil & gas industries.
Expertise in technology commercialization, capital markets, and strategic partnerships.

Positioned for Scale & Potential Value Uplift



One Platform, Many Verticals

Modular IONSolv™ platform adaptable to multiple recovery pathways, potential to create value across three horizons: early e-waste revenues, battery intermediates, and longer-term critical minerals/black mass



Proven High-Recovery Technology

The IONSolv™ platform achieves extremely high recovery rates (~98%) for critical minerals such as Li, Ni, Co and Mn — a step-change over conventional smelting or acid processes



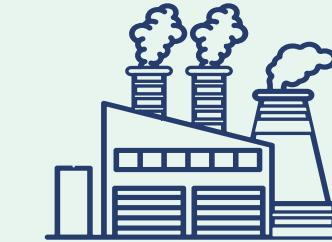
Large & Growing Addressable Markets

Multi-billion-dollar opportunities across three verticals — e-waste, EV battery recycling, solar panels and mineral processing — with supply deficits and regulatory pressure creating urgent demand



Early Cashflow Pathway

Near-term revenue potential (0-2 years) from e-waste recovery de-risks the business model and supports scaling into higher-value verticals



Validated Economics & Scalability

Independent benchmarking and engineering studies confirm strong commercial viability, with materially lower CAPEX/OPEX and industrial scalability



Strategic Partnerships & Valuation Re-Rating Potential

Backed by partners (Colt, Elemental, PEM/RWTH Aachen), with ASX and global peers re-rating 5-10x at similar milestones — highlights potential upside if Iondrive executes

Capital Structure

CORPORATE STRUCTURE

Ordinary Shares*	1,268.1m
Share Price (25 November 2025)	AUD\$0.045
Market capitalisation	AUD\$57.7m
Cash**	AUD\$7.2m
Enterprise Value (EV)	~AUD\$50.5m

OPTIONS/PERFORMANCE RIGHTS

Various incl Directors, employees & consultants	78,400,000
Performance Options (Exec LTI)	30,625,000
Performance Rights (Exec LTI)	30,625,000

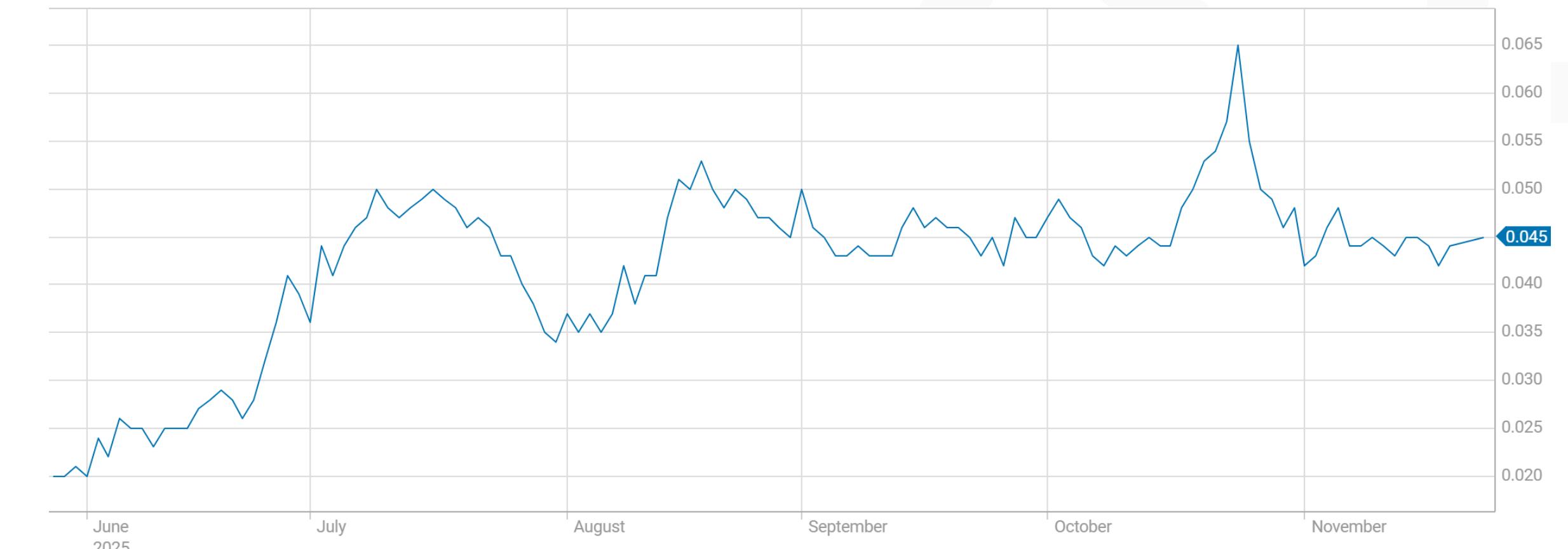
* Includes 77.5m placement 1 December 2025 (excludes 13.4m subject to shareholder approval Jan 2026).

** As at 30 September 2025, being the most recent quarterly report lodged with the ASX plus 1 Dec placement.

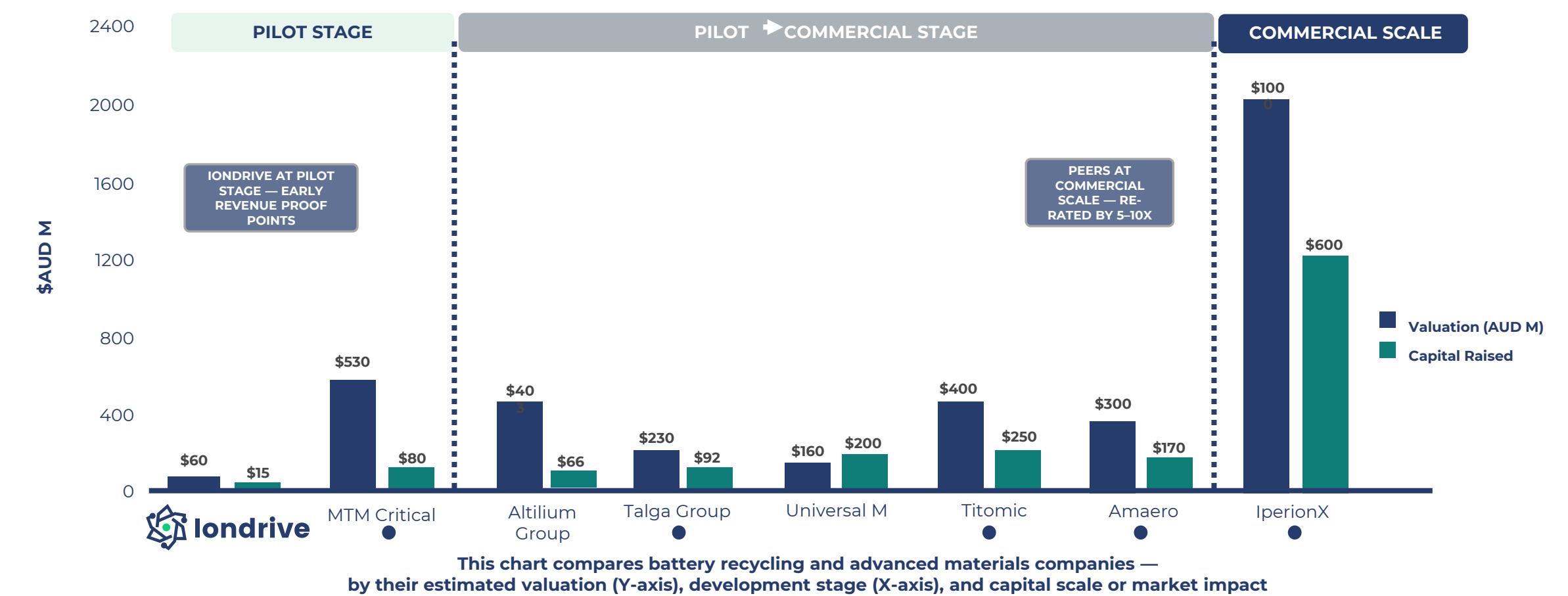
SUPPORTIVE STRATEGIC SHAREHOLDERS (>5%) - per most recent substantial holder notices at 25 November 2025

Regal Funds Management	~5.2%
Terra Capital	~8.0%
Strata Investment Holdings Plc	~12.2%
Ilwella Pty Ltd	~9.2%

ION SHARE PRICE GRAPH 6 MONTHS



VALUATION UPLIFT ALONG THE COMMERCIALISATION PATH



Disclaimer

Forward looking statements

This document contains certain forward-looking statements that involve risks and uncertainties. Although we believe that the expectations reflected in the forward-looking statements are reasonable at this time, we can give no assurance that these expectations will prove to be correct. Given these uncertainties, readers are cautioned not to place undue reliance on any forward-looking statements. Actual results could differ materially from those anticipated in these forward-looking statements due to many important factors, risks and uncertainties including those risks detailed from time to time in the Company's announcements to the ASX including, without limitation, risks that the technologies are not commercially viable, provisional patents may not result in successfully granted national patents, others may independently develop similar or improved technologies or design around patents or patent applications, or that granted patents will provide meaningful protection or competitive advantages. All reasonable efforts have been made to provide accurate information, but the Company does not undertake any obligation to release publicly any revisions to any "forward-looking statement" to reflect events or circumstances after the date of this presentation, except as may be required under applicable laws. Recipients should make their own enquiries in relation to any investment decisions from a licensed investment advisor.

Deep Eutectic Solvent (DES) technologies, including the londrives platform, have not yet been demonstrated at full industrial scale. The metals and application areas shown in this presentation are based on feasibility studies conducted by third parties, including londrive in some cases, and should not be interpreted as proof of commercial outcomes.

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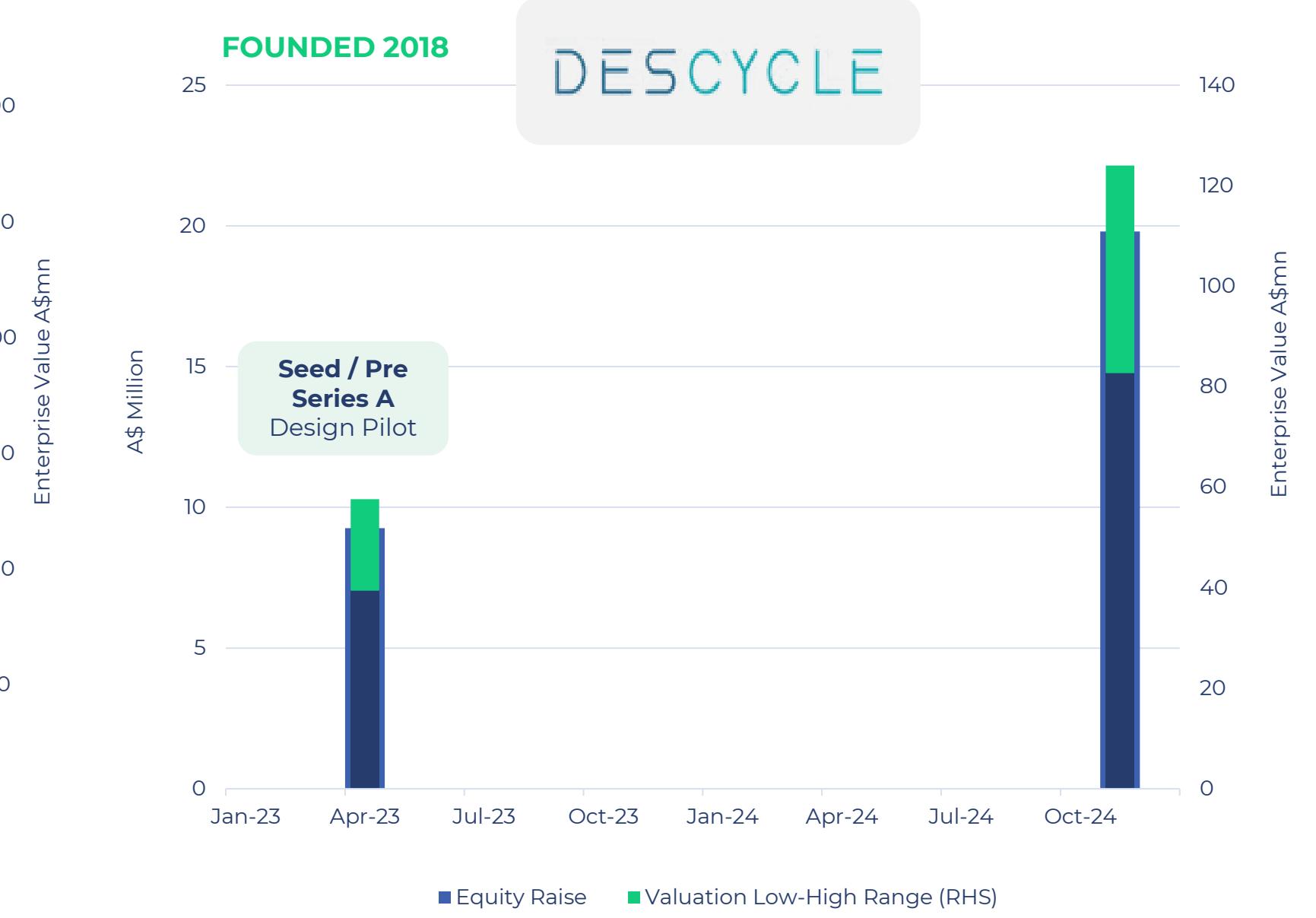
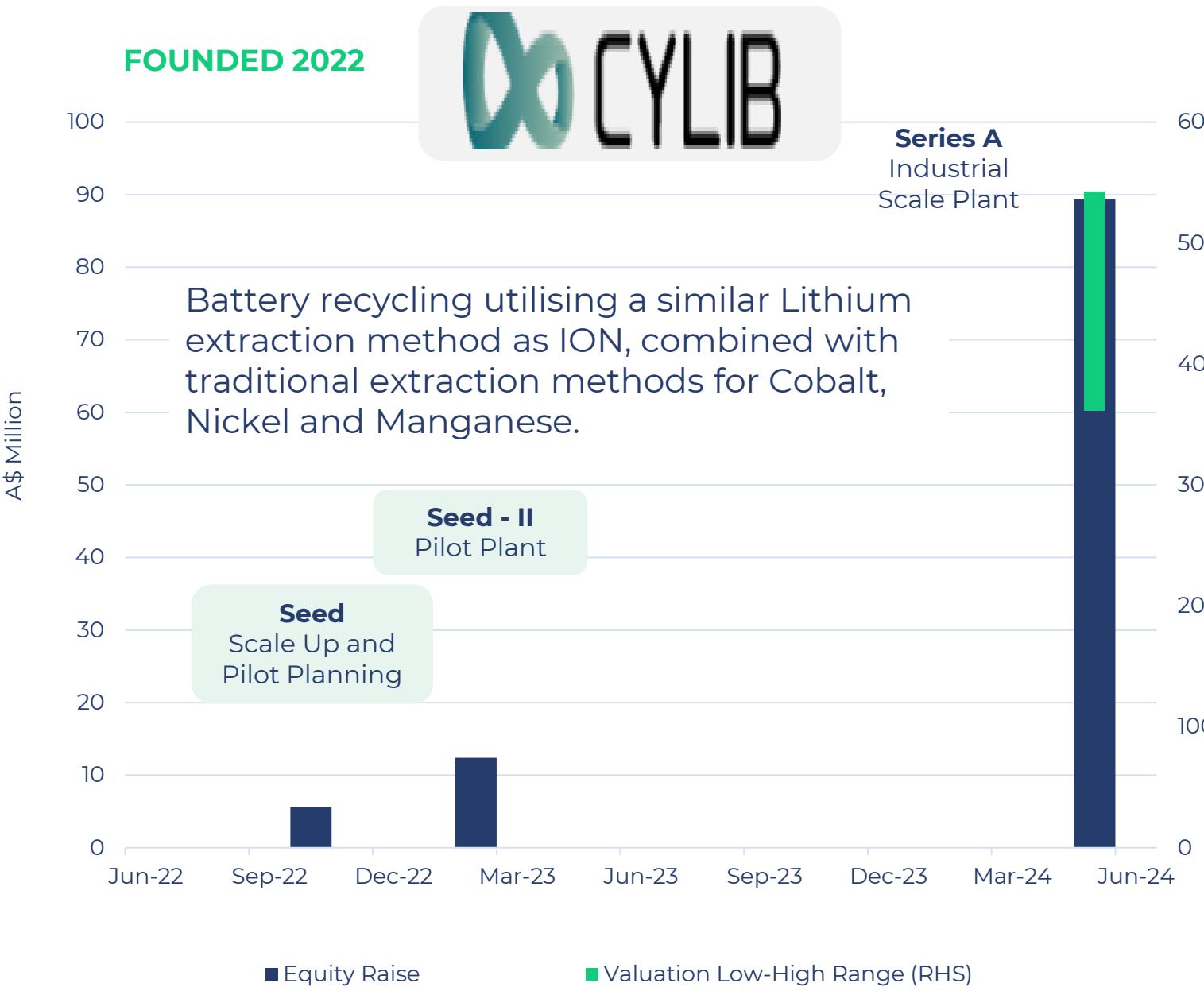
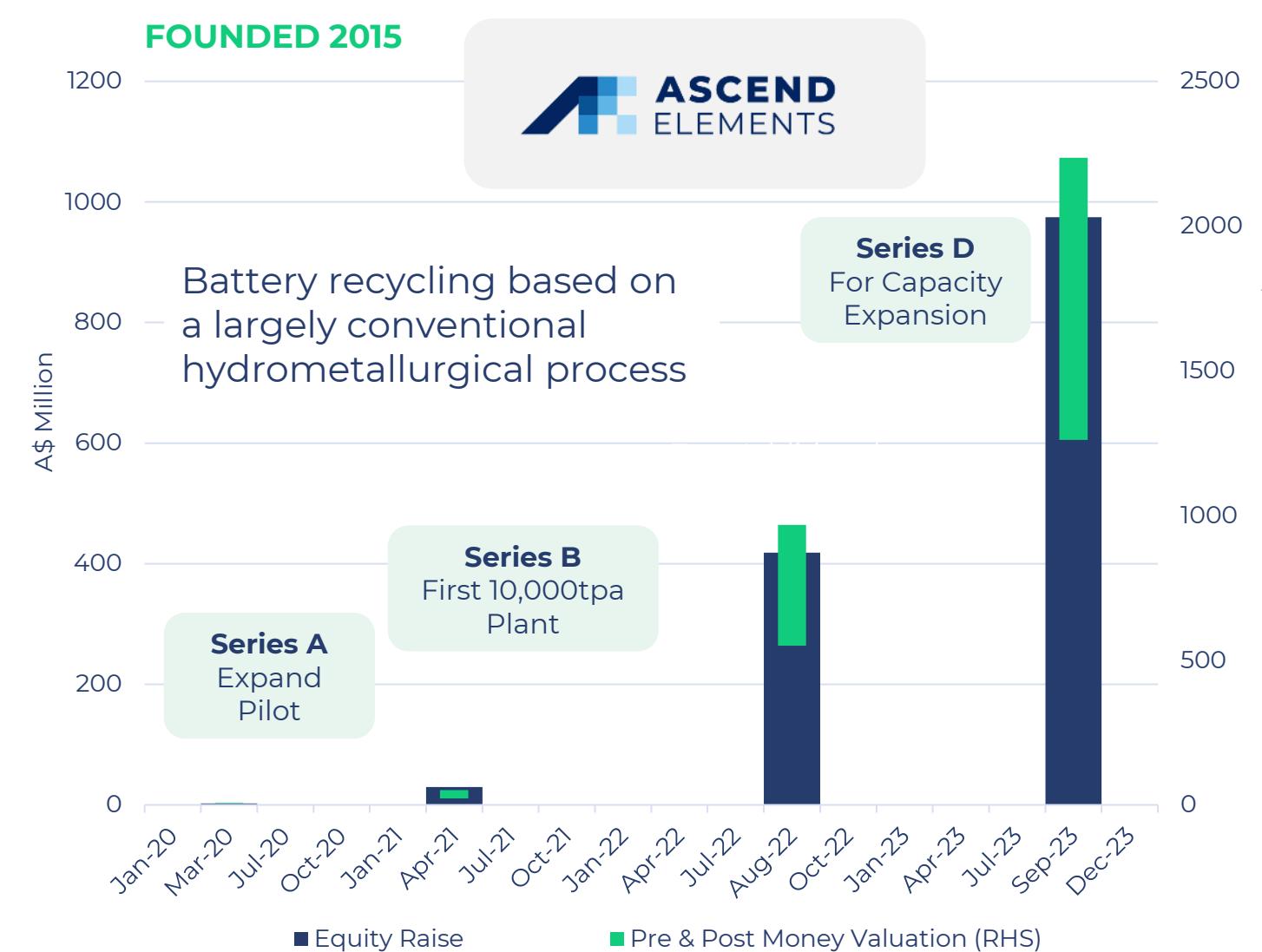
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APPENDIX

Market Comparisons

Breakthrough technologies in Metal and Battery Recycling are attracting strong capital support and increasing valuations pre and post pilot



References

Wood study: ASX 15th July 2024

PFS: ASX 1st November 2024

PEM Aachen University Benchmarking Study:
ASX 1st November 2024

Rho Motion Report: ASX 25th March 2024

BMI Report: ASX 19th February 2025

Model Answer Economic Modelling: ASX 19th February 2025