



HANNANS

**Europe's Early Mover
Battery Recycler**

ASX: HNR



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Who We Are

Hannans is licencing recognised battery recycling technology (“**Technology**”) in Europe, Iceland, Kosovo, Moldova, Montenegro and North Macedonia

Technology has been developed by an entity 50% owned by Hannans major shareholder, Neometals Ltd (ASX: NMT) and 50% owned by German engineering house SMS

The safe recycling Technology looks to eliminate lithium-ion battery (LiB) waste and “closes the loop” by recovering high-value battery materials such as lithium, nickel, copper and anode materials from core chemistries*

Hannans aims to be a dominant LiB recycler across its licenced jurisdictions servicing populations of > 225m**

EU strongly incentivising with regulation and funding, recycling technologies as Europe’s auto industry rapidly electrifies

* NMC, LMC, NCA, LCO (excludes LFP)

** The territory within the Hannans’ license area covers Albania, Bosnia, Bulgaria, Croatia, Denmark, Finland, Greece, Ireland, Italy, Norway, Romania, Serbia, Slovakia, Slovenia, Sweden and the UK

Europe – Leading the Way in LiB Recycling

Released in March 2023, the Critical Raw Materials Act (CRM Act) will ensure that the EU accesses a secure and sustainable supply of critical raw materials, enabling Europe to meet its 2030 climate and digital objectives

Europe relies heavily on imports, often from a single third country, and recent crises have underlined EU strategic dependencies

Specifically, CRM has set clear benchmarks for domestic capacities along the critical raw materials supply chain including:

- A goal for at least 15% of the EU's critical battery materials to be sourced for recycling and
- 40% of the EU's annual consumption for processing by 2030

EU battery regulations stipulate minimum levels of materials recovered from waste batteries: lithium - 80%; cobalt, copper, lead and nickel - 95% by 2031*



“This Act will bring us closer to our climate ambitions. It will significantly improve the refining, processing and recycling of critical raw materials here in Europe.”

Ursula von der Leyen
President of the European Commission

European Funding & Industry Support

The European Battery Alliance (EBA), founded by the European Commission and launched in 2017, aims to develop an innovative, competitive and sustainable battery value chain in Europe.

A EUROPEAN VALUE CHAIN



Our goal:

Build a strong pan-European battery industry to capture a new market worth 250B€/year in 2025.

A UNIQUE OPEN ECOSYSTEM



An independent meeting place:

More than 800 members throughout the value chain have joined EBA250. The members come from the industrial, academic and financial worlds, from mining to recycling.

PROJECT-DRIVEN



Our actions' DNA:

Competitiveness, sustainability, significant impact, objective focus, urgency, concrete, project-driven, sharing, investment.

In 2021, the project, called “**European Battery Innovation**” was jointly prepared by Austria, Belgium, **Croatia, Finland**, France, Germany, **Greece, Italy**, Poland, **Slovakia**, Spain and **Sweden**

*Hannans hold licences for countries in **bold***



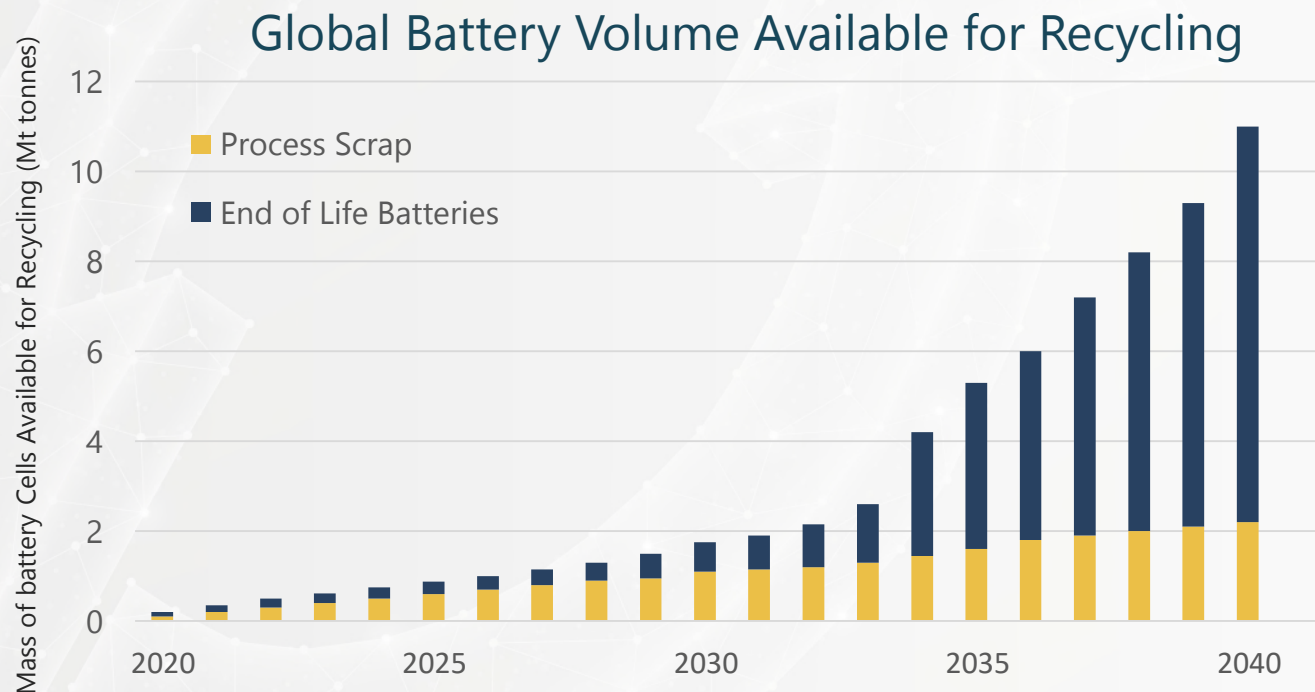
Commission approves €2.9 billion support by twelve Member States for second important European project for **battery value chain**

LiB recycling projects are earmarked for policy & funding support

Hannans Strategic Objective

To be a leading integrated lithium-ion battery recycler in our licensed territories with a dominant market share.

Future global battery recycling requirements are huge!



Source: Benchmark Minerals Intelligence (Dec 2022), Battery Density – NMT Management (4tMWh)

How Do We Get There?



Our technology partner and major shareholder Neometals Ltd has “blazed a trail” for Hannans to follow



By way of example, Neometals 50% JV – Primobius GmbH is collaborating with Mercedes-Benz to build a LiB recycling plant in Germany



Hannans intends to follow in Primobius’ path with ambitions that include partnering with OEM’s & better cell producers in our territories



Short term focus on formal operating partnerships to secure binding feedstock supplies from other sources to generate near term revenue

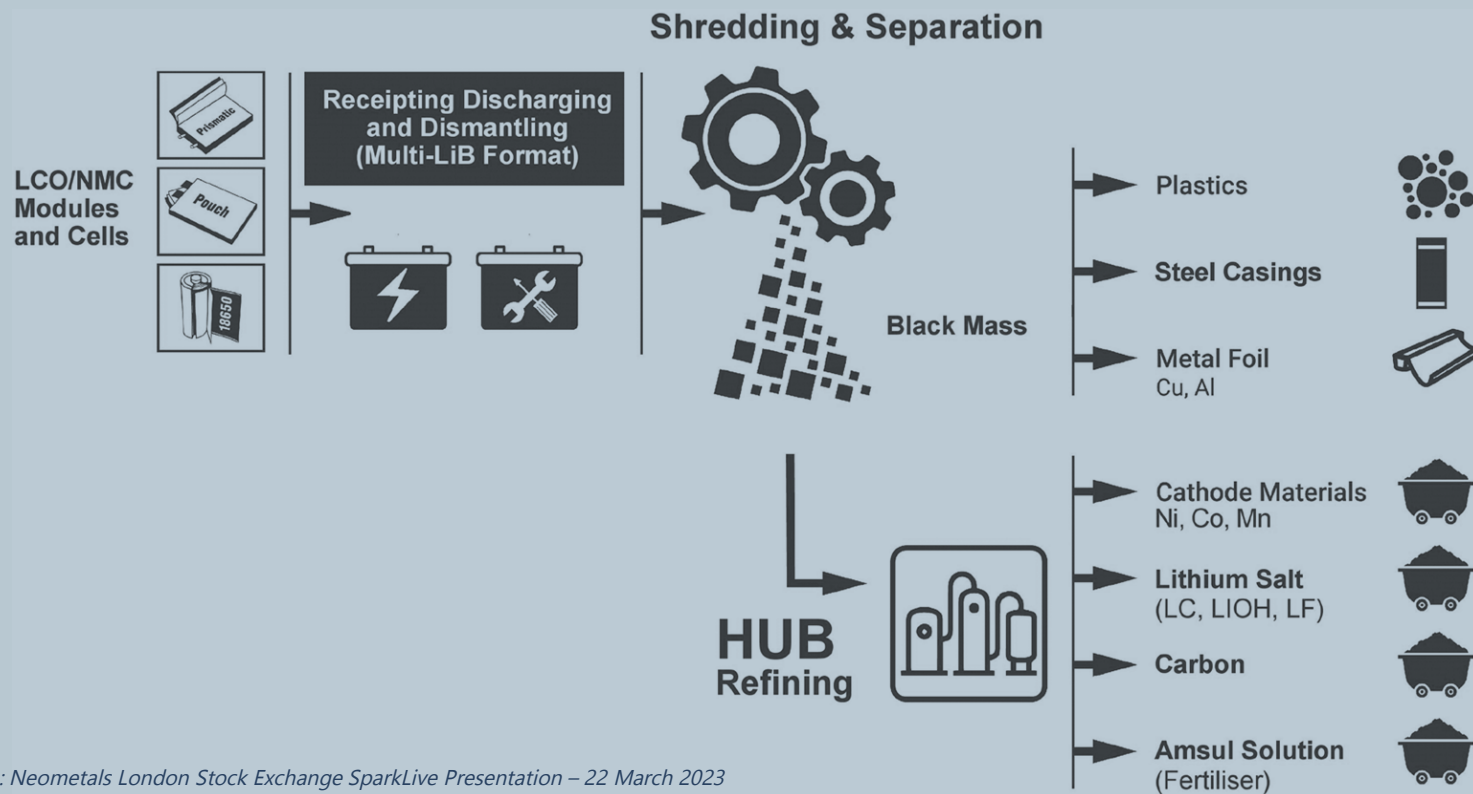


Build on managements deep commercial, political and strategic networks within the European recycling industry

Hannans Licenced Process

Equipment solutions backed by leading German plant builder

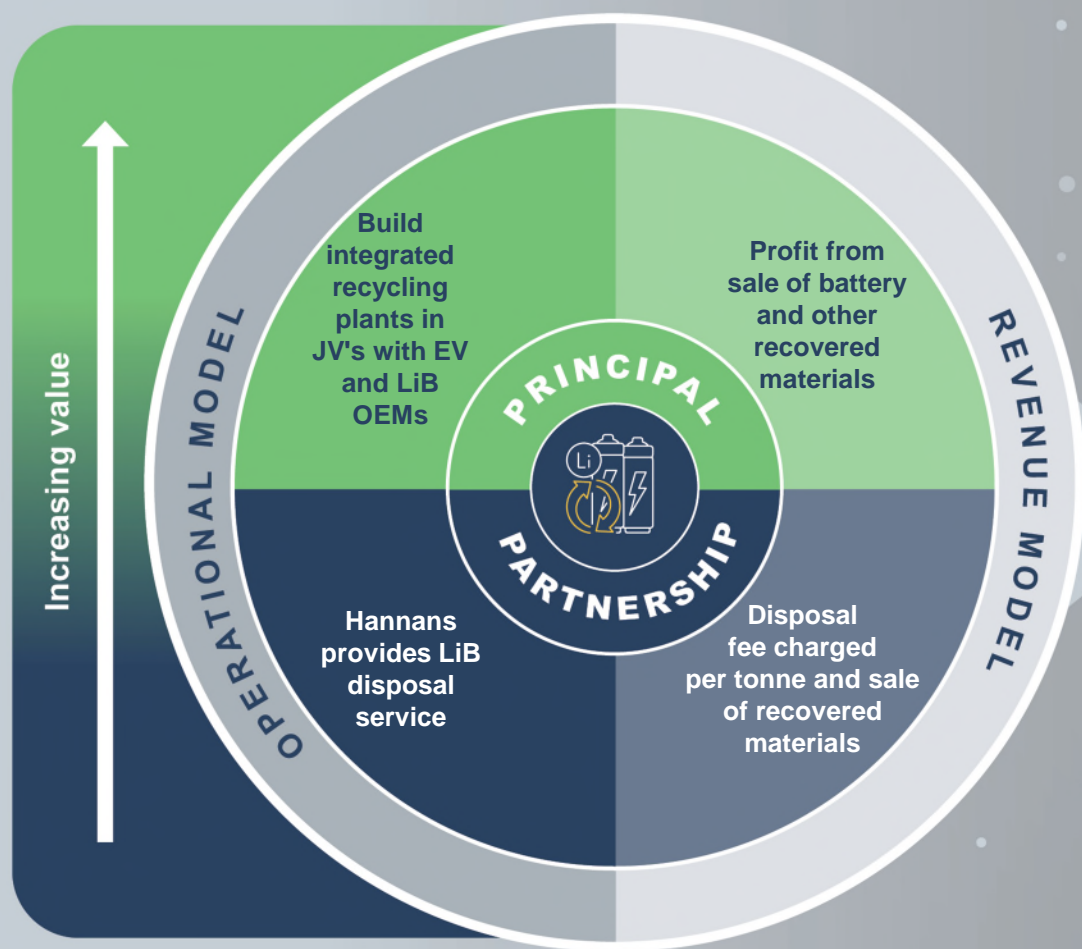
Safe recycling process producing high purity battery materials



Source: Neometals London Stock Exchange SparkLive Presentation – 22 March 2023

Business Model – Recycling

Flexible business models deliver lowest total cost of recycling



Differentiated customer-driven model

Plant investment decisions require partnerships with secure access to LiB feedstock



Hannans Market Overview

Exclusive Territories

Nordics

Norway, Sweden, Denmark, Finland

Italy

Slovakia

South East Europe

Albania, Bulgaria, Bosnia Herzegovina, Croatia, Greece, Iceland, Moldova, North Macedonia, Romania, Serbia, Slovenia

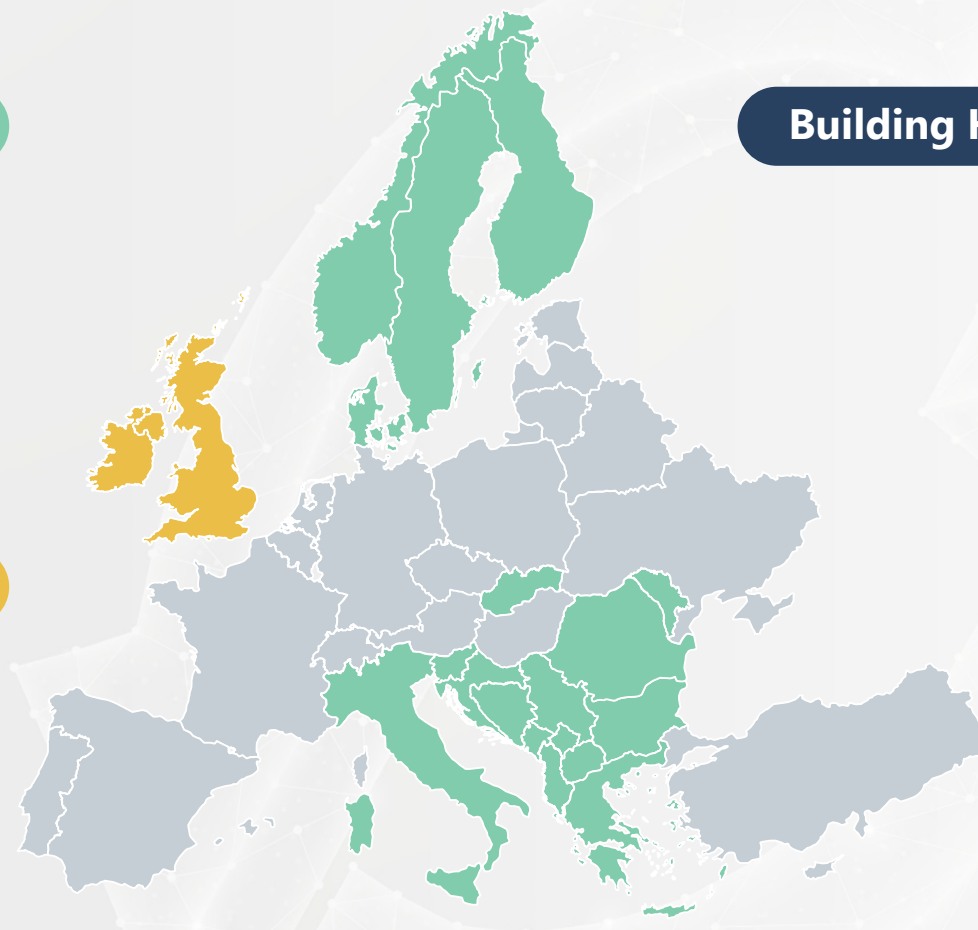
Non-Exclusive Territories

UK & Ireland

In EU 27 countries, Hannans sub-licenses/rights cover:

41% of the EU population

38% of all EU-registered motor vehicles



Building Hannans hub/spoke network:

Binding agreement executed:

- PBRL / UK, April 2023

MOU pipeline:

- Croatia
- Finland
- Greece
- Italy
- Serbia
- Slovakia

*Engagement process sets clear principles with MOU as precursor to binding agreement
Negotiations ongoing with targeted JV partners across all other licensed territories.*

Objective: To be a leading LiB recycler in the targeted territories with significant market share

Key Takeaways



Hannans is ideally placed within the heart of Europe's auto industry and LiB chain, we are an early mover in the battery recycling industry with access to leading edge, proven technology



Huge wave of current EV and associated battery manufacturing underpinning significant mid term LiB recycling demand



Hannans team possess the operating experience and networks to roll-out "hub and spoke" shredding and battery material recovery plants



Mandated policy support for localised supply chains in EU with emphasis on "closing the loop" via recycling



Multiple future income streams with participation in supply of high-value battery chemicals and metals

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