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REDIVIUM

The Road to Battery Material Supply Solutions

redivium.com

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Redivium Limited – an ASX and FSE-listed company



ASX: RIL



FWB: HR90

Redivium's vision is to become a producer of critical raw materials in Europe.

To achieve this vision we will recycle batteries – shredding, recovering and refining those materials for new battery production, thereby supporting the circular economy.

Becoming a leading producer of recycled material compliant with the EU Battery Regulation required for the European lithium battery supply chain.

Redivium Limited – an ASX and FSE-listed company focussed on

Resource Scarcity

Becoming the leading battery recycler for OEMs, gigafactories and commercial compliance schemes in Europe.

Unique Added Value

Closing the loop in the battery value chain by delivering scalable, high-efficiency recycling.

Eliminating storage-related fire risks and creates reusable battery-grade products to make new cells.

Competitive Advantage

Studies by Redivium's technology licensor indicate a significant competitive cost advantage in recycling vs purchasing of battery materials on the spot market. Our goal is for Redivium's recycled end-products to contribute to the EU's raw materials requirement for new battery cell production and reduce the carbon footprint of cell production by ~85% vs conventional mining.

Key Unmet Needs in Europe: Battery Recycling Leadership

European Critical Raw Materials Act (CRMA) in force May 2024

CRMA ensures EU access to a secure and sustainable supply of critical raw materials, enabling Europe to meet its 2030 climate objectives.

The Act sets key benchmarks for strategic raw materials' capacity and diversification across the EU supply chain based on its annual consumption of such materials:

- **At least 10% of extraction capacity**
- **At least 40% of processing capacity**
- **At least 25% of recycling capacity**
- **~65% reliance on a single third country at any stage of the value chain.**

The Act also sets time limits on granting permits for strategic mining, recycling and processing projects, and requires large companies needing strategic materials to assess supply chain risk regularly.

Sources: <https://www.consilium.europa.eu/en/press/press-releases/2024/03/18/strategic-autonomy-council-gives-its-final-approval-on-the-critical-raw-materials-act/>, https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=OJ:L_202401252

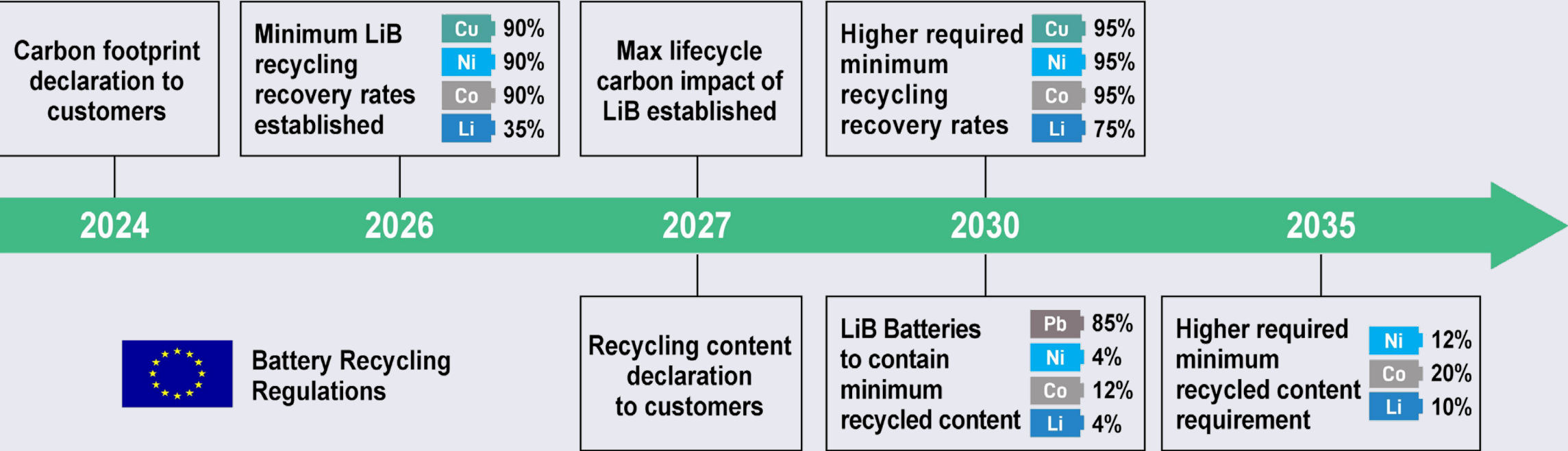
"This Act will bring us closer to our climate ambitions. It will significantly improve the refining, processing and recycling of critical raw materials here in Europe."

Ursula von der Leyen
President of the European Commission



Key Unmet Needs: EU Driving OEMs to “Close the Loop”

Aim: To be the first recycling company fully compliant with all EU LiB recycling regulations before 2026



 European regulations are pushing the responsibility to “close the loop” to the OEMs

Redivium as a Recycling Solutions Provider

NMC Recycling

LFP Recycling

Alkaline Recycling



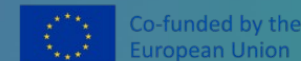
Redivium has rights (via licensing arrangements) to exploit a lithium **battery recycling technology originally developed by Neometals Ltd** (ASX: NMT) in certain European jurisdictions. The patented technology is now equally owned between Neometals and German plant builder SMS Group GmbH.

Neometals is Redivium's largest shareholder.

ReLiFe (Recycling Lithium Ferrophosphate) is a project developed in collaboration with a consortium of partners, aiming to demonstrate, initially at a pilot scale, an environment-friendly and cost-effective technology for **recycling lithium ferrous phosphate (LFP) scrap and end-of-life batteries**.

Redivium is diligently exploring and developing new methods for **Alkaline Battery Recycling**.

We intend to integrate an alkaline recycling process into our suite of environmental solutions during the course of 2025.



Commercial Lithium Battery-Recycling Operation in Germany REDIVIUM

ASX-listed Neometals Ltd (ASX: NMT) and private German global plant manufacturer SMS Group GmbH have incorporated a 50:50 joint venture in Germany to commercialise NMT's patented technology. SMS has constructed an integrated 10 TPD integrated demonstration circuit (pictured). Redivium has rights (via licensing arrangements) to commercialise this NMC* recycling technology in Scandinavia, Italy, SE Europe, the UK and Ireland equating to ~41% of the European population.



* NMC is nickel, manganese and cobalt. The hydrometallurgical process covers three other chemistries, namely LMC (lithium, manganese and cobalt), NCA (nickel, cobalt and aluminium) and LCO (lithium cobalt oxide) batteries. All references to NMC necessarily includes these additional battery formats.

Recycling Solution for NMC Li-ion Batteries

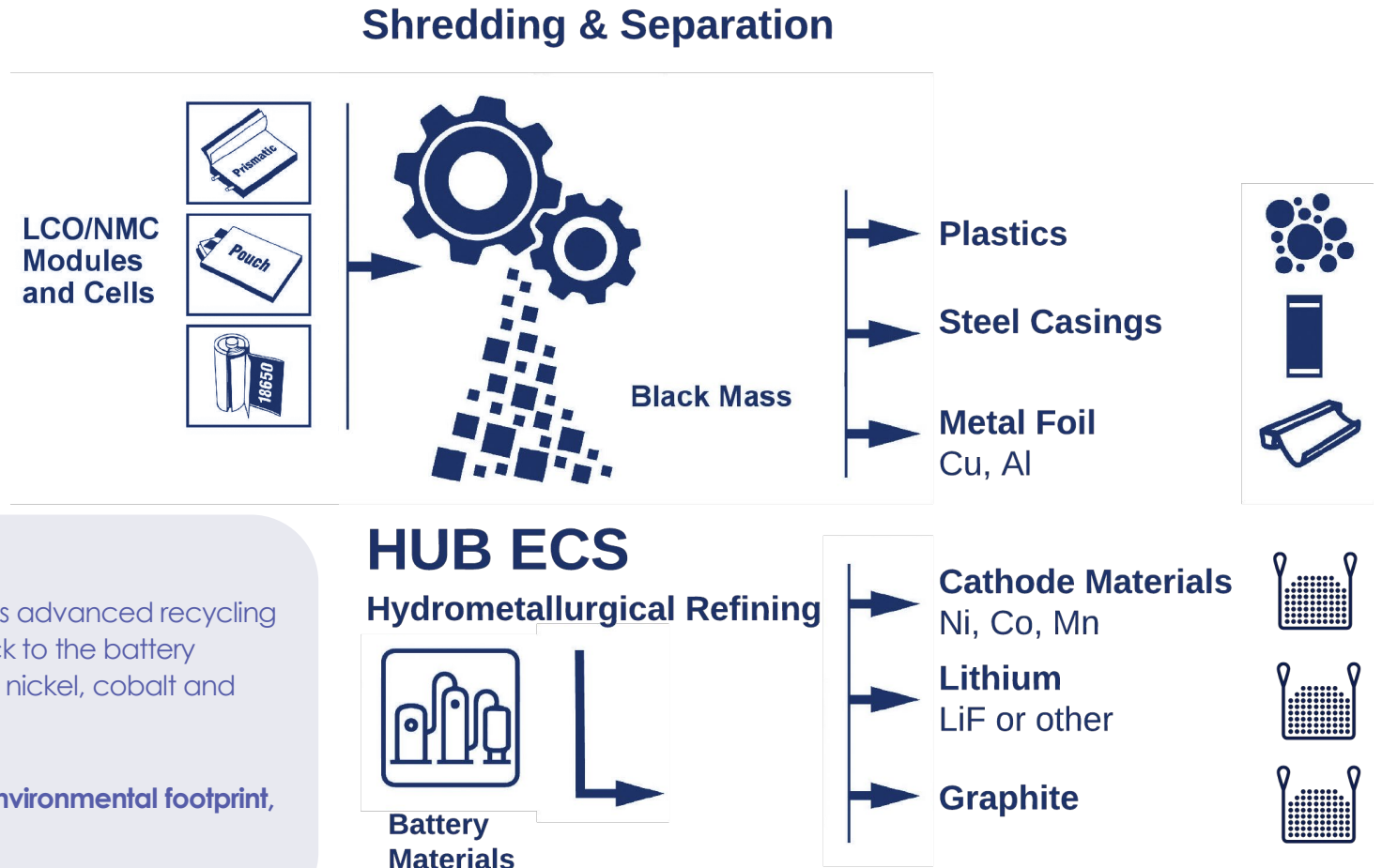
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The German Sustainability Award
The technology was featured as a finalist in the Resources category, acknowledged for its low-CO₂ lithium-ion battery recycling process.



Neometals won the Best Technology Award at the London Stock Exchange AIM Awards in 2022



Redivium provides more than a recycling solution. Its access to this advanced recycling process with low CO₂ emissions delivers high purity chemicals back to the battery manufacturing sector. Using a unique proprietary process, lithium, nickel, cobalt and other valuable materials are recovered from waste LiBs.

In a world where manufacturers are measured by their ethics & environmental footprint, Redivium will deliver.

Recycling Solution for NMC Li-ion Batteries

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>95%

Nickel, cobalt and
copper recovery yield

>93%

Lithium recovery
yield



[Click here to watch
the animation of the process](#)

The trial of process improvements to the hydro-metallurgical refining flowsheet has yielded outstanding results with nickel, cobalt and copper recoveries of >95% from black mass feedstock.

[NMT ASX Announcemen - Primobius update \(June 1st 2023\) \(click here\)](#)

New lithium recovery flowsheet results improve lithium yields from >83% to >93%.

[NMT ASX Announcement - Outstanding Lithium Recovery \(October 4th 2023\) \(click here\)](#)

Mercedes-Benz OEM Technology Validation

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The Mercedes-Benz partnership with our technology licensor is a compelling validation of the technology. Its flexible business model demonstrates a willingness to tailor commercial agreements to suit the recycling needs of OEMs, battery cell manufacturers, European battery compliance schemes and environmental service providers.



Source: Mercedes-Benz announcement: <https://group.mercedes-benz.com/company/news/recycling-factory-kuppenheim.html>

LFP Recycling – ReLiFe Project

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ReLiFe (Recycling Lithium Ferrophosphate) is a project developed in collaboration with a consortium of partners aiming to demonstrate, initially at a pilot scale, an environment-friendly and cost-effective technology for recycling LFP scrap and end-of-life (EoL) batteries.



The pilot plant, with a nominal capacity of 500 TPA, will be established in **Xanthi, NE Greece**, at the industrial complex of **Sunlight Group Energy Storage Systems SA**, the project's lead partner and Greece's largest battery cell producer.

The project is running for three years from 1 January 2023 to 31 December 2025.

Redivium is in the final stages of completing a commercialisation agreement with Sunlight Group that will grant Redivium a **worldwide exclusive license to commercialise this innovative LFP recycling technology**. This agreement encompasses the construction of the necessary facilities in collaboration with our EPC provider, securing funding for the build-outs, and establishing off-take agreements to ensure the successful integration of recycled materials into European supply chains.



Business Model – Hub & Spoke Network

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Farming for battery feedstock

Various partnerships are in development with compliance scheme operators, waste management companies, OEMs, battery producers, ESS-related companies and consumer electronics retailers.

Spokes

A smaller strategically-located facility where spent batteries are collected and shredded to produce black mass.

Redivium is creating a network of JVs with various partners across Europe to operate shredding circuits.

Hubs

A large facility where the recovered black mass is re-refined into battery quality raw materials.

Four hubs are targeted in: Scandinavia, the UK/IE, Italy and SE Europe.

Hub/spoke partner

LFP recycling pilot plant

- Redivium Ltd (Exclusive Hub Licence)
- Redivium Ltd (Non-Exclusive Hub Licence)
- *Critical Metals Ltd/Redivium Ltd (Exclusive Hub Licence)



Chester, UK
Lithium-ion battery 10 TPD spoke – in construction



Mercedes-Benz
Kuppenheim, Germany
Mercedes-Benz lithium-ion battery recycling plant – in construction

retela

asekol

ecobat

Prague, Czech Republic
NMC, LFP and alkaline battery recycling plant

ECOWES

SNRB SISTEMUL NAȚIONAL DE RECICLARE A BATERIILOR

Bucharest, Romania
NMC, LFP and alkaline battery recycling plant

METALFER

Sremska Mitrovica, Serbia
SE Europe hub

SUNLIGHT ReLife
RECYCLED LITHIUM-IRON-POSPHATE

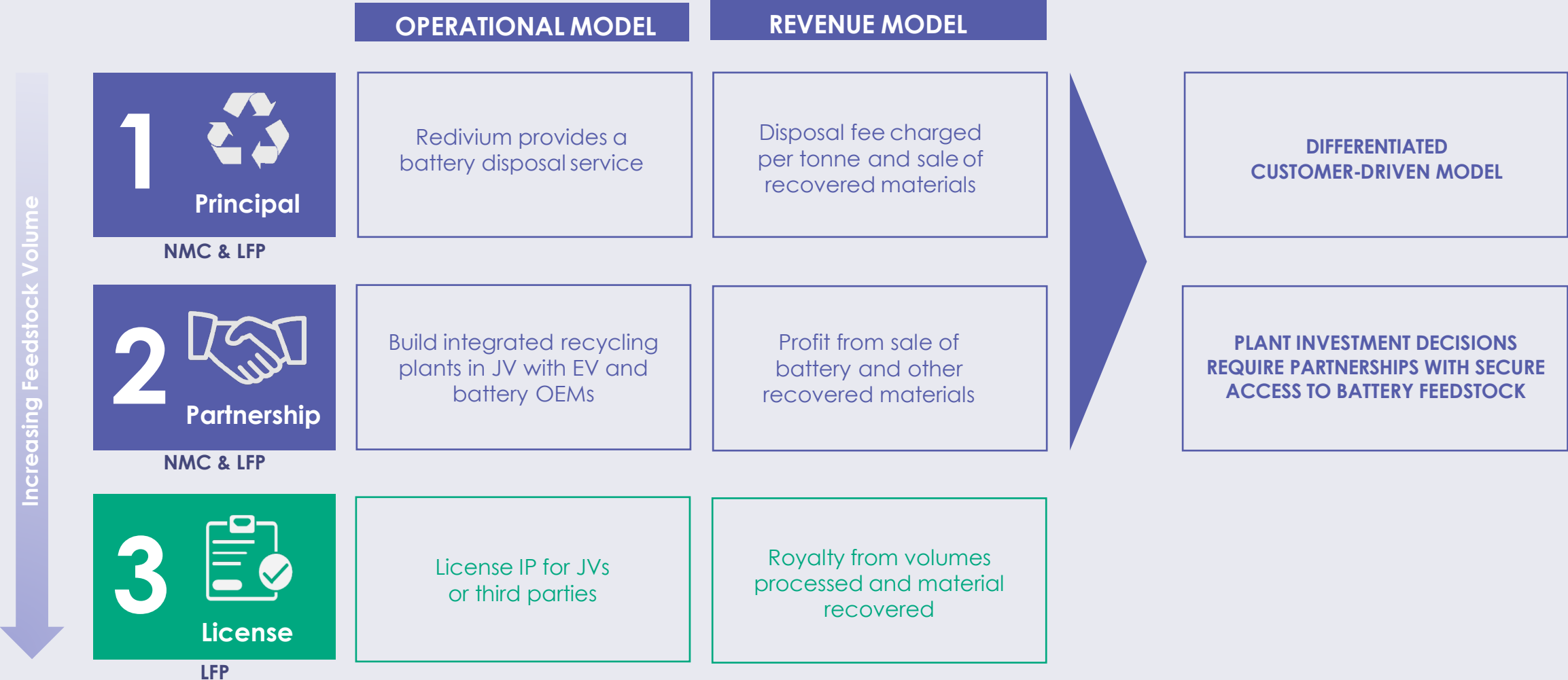
Xanthi, Greece
LFP recycling pilot plant

Investment Decision in the UK; Other Partnerships Maturing

Four key commercial partnership agreements progressing

				
Location				
Agreement	Binding UK market development agreement.	Memorandum of understanding.	Binding collaboration agreement.	Binding collaboration agreement.
Description	Collaboration to explore the establishment of a joint Spoke plant in Chester, UK, with PBR responsible for securing feedstock.	Collaboration to investigate joint SE Europe Hub in Serbia.	Collaboration to investigate joint Spoke plant in Romania. Partnership to bring together LIB collection, stewardship and recycling technology.	Joint effort to investigate the feasibility of establishing a Spoke plant in the Czech Republic, with a farming from Slovakia, Poland and east Germany.
Status	Feasibility study for a ~10 TPD-capacity plant has been completed.	Ongoing feasibility assessment and business planning.	Ongoing feasibility assessment and business planning.	Ongoing feasibility assessment and business planning.
Next Steps	Finalise the business plan and make an investment decision. Lease negotiations for the site are currently at an advanced stage.	Contract a firm to conduct a feasibility study and evaluate the viability of proposed sites.	Contract a firm to conduct a feasibility study and evaluate the viability of proposed sites.	Contract a firm to conduct a feasibility study and evaluate the viability of proposed sites.

Business Model Options – NMC & LFP Recycling



Redivium Trading Headline Strategy

Farming for Black Mass

The key focus is to trade Redivium intermediate products across Europe through one entity aimed at achieving critical mass and overall marketing focus.

Will include third-party products to reduce overall production risk aimed at developing sufficient volume to cover leach feed demands for planned hydrometallurgical circuits.

End-of-Life Batteries

Originate all forms of compliant battery chemistries for processing at Redivium sites to reduce reliance on partners and improve venture terms.

Metals and Plastics

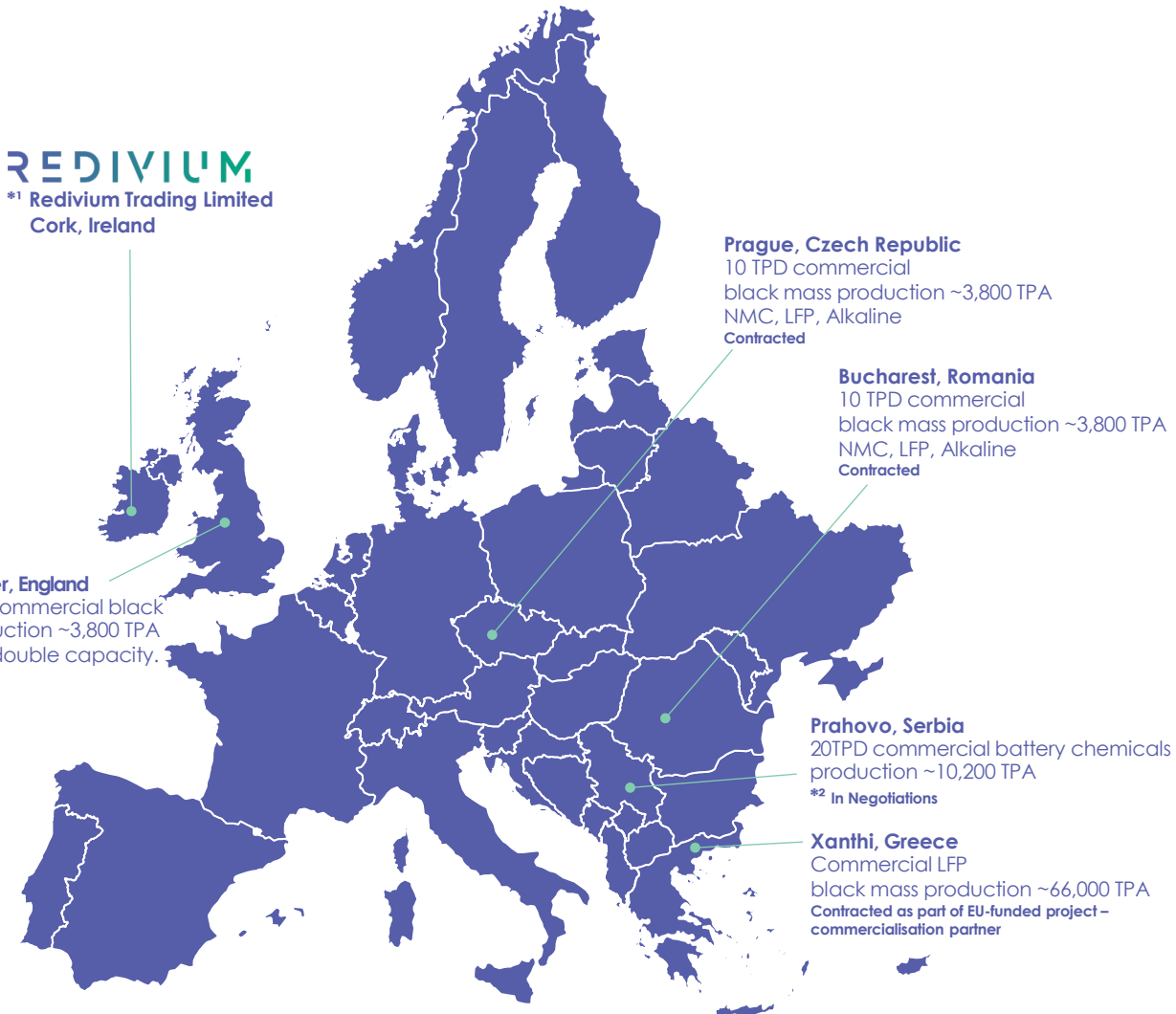
Aggregate plastic and metal scrap volumes for sale to various scrap merchants.

Final Products

Aggregate final battery grade ESG-compliant chemicals for sale to OEM-specified pCam partners at market price for new cell production.

Revenue Generation

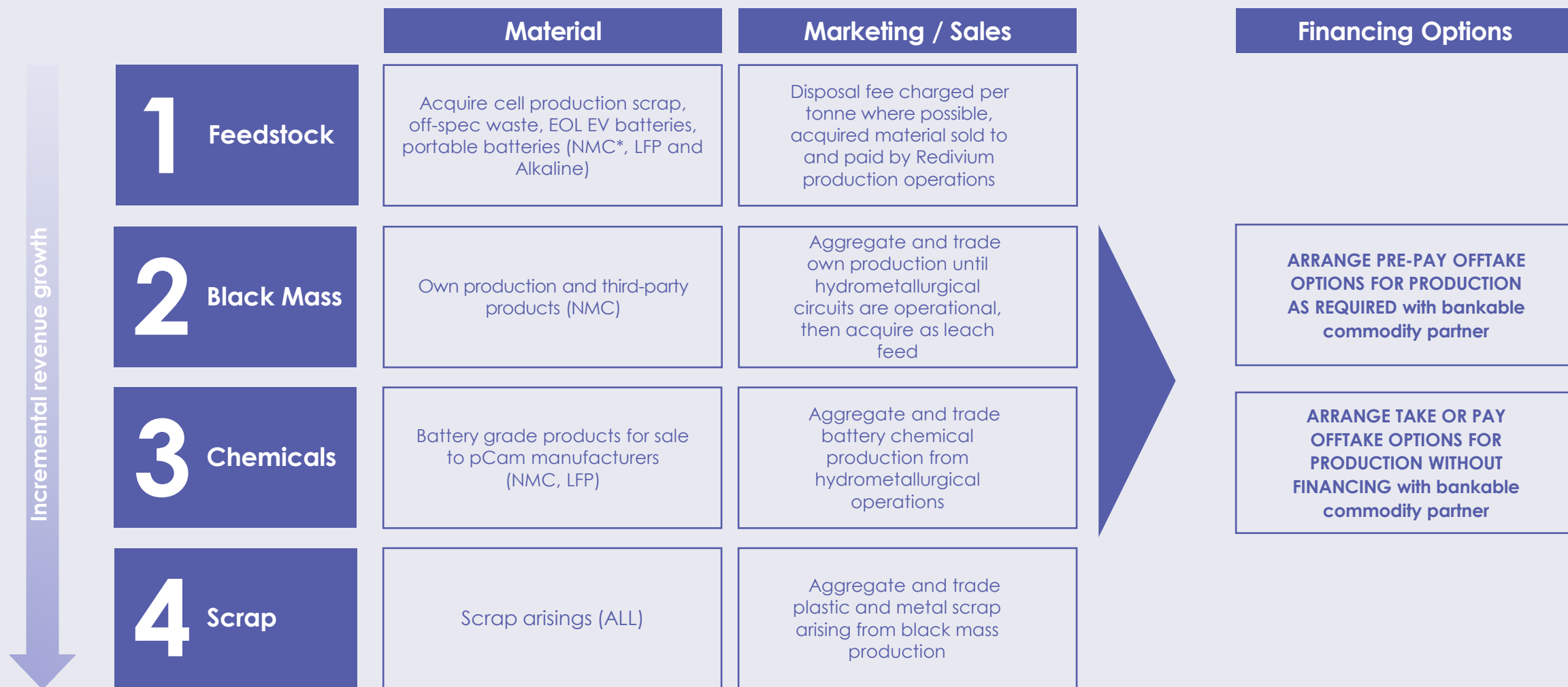
Redivium to cover trading costs for personnel and commodity acquisition for scrap and batteries. The black mass and chemical products are subject to a revenue share with a commodity partner on an open-book basis to cover trade execution and settlement.



*1 Intended incorporated name of new business to be incorporated Q1/2025.
*2 These are the projects in initial due diligence following execution of NDAs or transaction terms sheets have been issued.
*3 All projects indicating 'contracted' means commercial terms have been agreed upon which feasibility studies, business plan and capital planning will be determined.

Redivium Trading Business Model

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*NMC = NMC, LMC, NCA, LCO chemistries

Redivium Revenue Model Summarised

Focus on capturing and profitably processing waste EOL portable batteries to establish a Europe-wide scalable platform for future processing of EOL EV batteries.

Redivium plans to trade black mass from NMC, LFP and alkaline battery waste until sufficient volumes have been secured to underpin substantial investment in hydro-metallurgical circuits, and enable the production of high-purity chemicals for new battery cell production.

Targeting the establishment of four processing hubs in specific regions from 2028 onwards: namely Scandinavia, the UK/Ireland, Italy & SE Europe for both NMC and LFP black mass.





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Chairman



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Vladimir Jelacic
General Counsel



Farhan Mohammed
Director – Engineering Europe



Aljoša Antolin
Director – Business Development

Redivium presents a unique value proposition

- Multiple growth opportunities via portable battery partnerships across Europe.
- Profit delinked from electric vehicle adoption and their end-of-life EV batteries.
- Team has a strong technology commercialisation background.
- Clear strategy supported by macro energy transition tailwinds.
- Mercedes-Benz technology under licence industrially validated.



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