

An aerial photograph of a city street corner. On the left, a tall red building with many windows and balconies dominates the frame. In the center, a white Stena Recycling truck is parked on a paved area. To the right, another red building is visible. The street is paved with grey cobblestones. The overall scene is captured from a high angle, looking down on the street.

# STENA RECYCLING

BATTERIES  
PER AXELSSON

TOGETHER WE CREATE A  
SUSTAINABLE TOMORROW

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It starts here.

 **STENA**  
RECYCLING



# AGENDA



Company Introduction

The Stena sphere and Stena Recycling



Stena Battery, Battery Legislation, End-of-Life  
and Production Waste Services

# From local metal trading entrepreneur in 1939 to industrial group



## 1 THE BEGINNING

Starting as a local scrap dealer and entrepreneur, Sten A. Olsson created business opportunities in trading ferrous and non-ferrous scrap, rags and rubber.

## 2 THE JOURNEY

Decades of extensive growth through new types of services, several acquisitions, and geographical expansion.

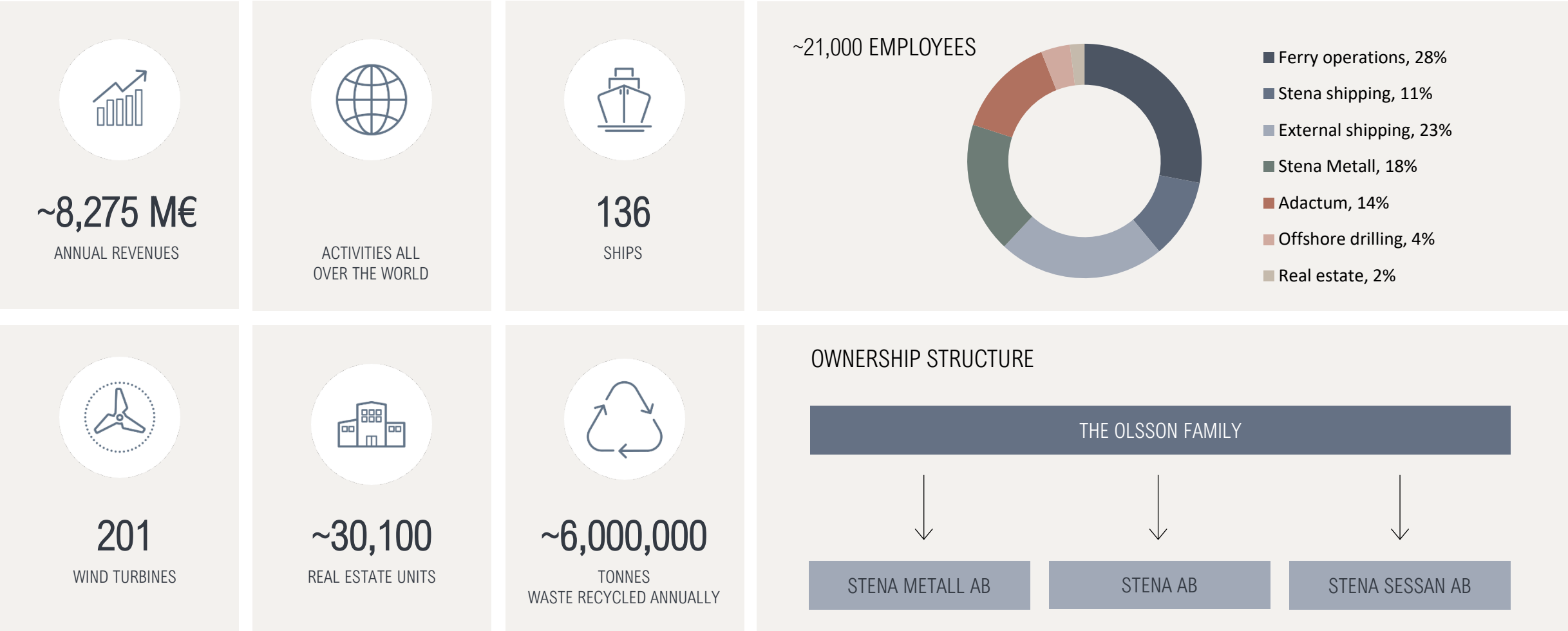
## 3 TODAY

The Olsson family ownership and values remain, with an international footprint and strong market position for all companies.

## 4 THE FUTURE

Sustainable industry solutions in a circular economy.

# COMPANY PROFILE | Stena Sphere, the Stena Group of Companies



It starts here.



# INTRODUCTION TO STENA RECYCLING | 100 % daughter of Stena Metall AB

The Nordics leading recycling partner since 1939



## CORE BUSINESS

**Collection of industrial waste material** that arises from both industry and society.

**Refinement of materials** to produce recycled raw materials for new products or new energy.

**Circular partner** to find innovative ways of designing, producing and reusing products for circularity.

## GLOBAL TRENDS AFFECTING OUR BUSINESS

- DESIGN FOR CIRCULARITY & ECO FRIENDLY
- INCREASED REUSE OF PRODUCTS
- NEW RECYCLING TECHNOLOGIES
- INCREASED COMPLEXITY IN PRODUCT CONTENT
- ACCERELATION OF ELECTRIFICATION
- SCARCITY OF RAW MATERIAL
- INCREASED DEMAND FOR ALUMINUM
- GLOBAL WASTE TRADING DECREASE
- GREATER RESPONSIBILITY IN DEALING WITH PLASTICS



## KEY FIGURES

3,100  
# OF PEOPLE

6  
MN TONNES<sup>3</sup>

7  
# OF COUNTRIES

26,2  
SALES (BSEK)<sup>1</sup>

2.8  
EBITDA (BSEK)

220  
SITES

## KEY INDUSTRIES



AUTOMOTIVE / ELV



MANUFACTURING



PUBLIC SECTOR



RETAIL



PROCESSING  
INDUSTRY

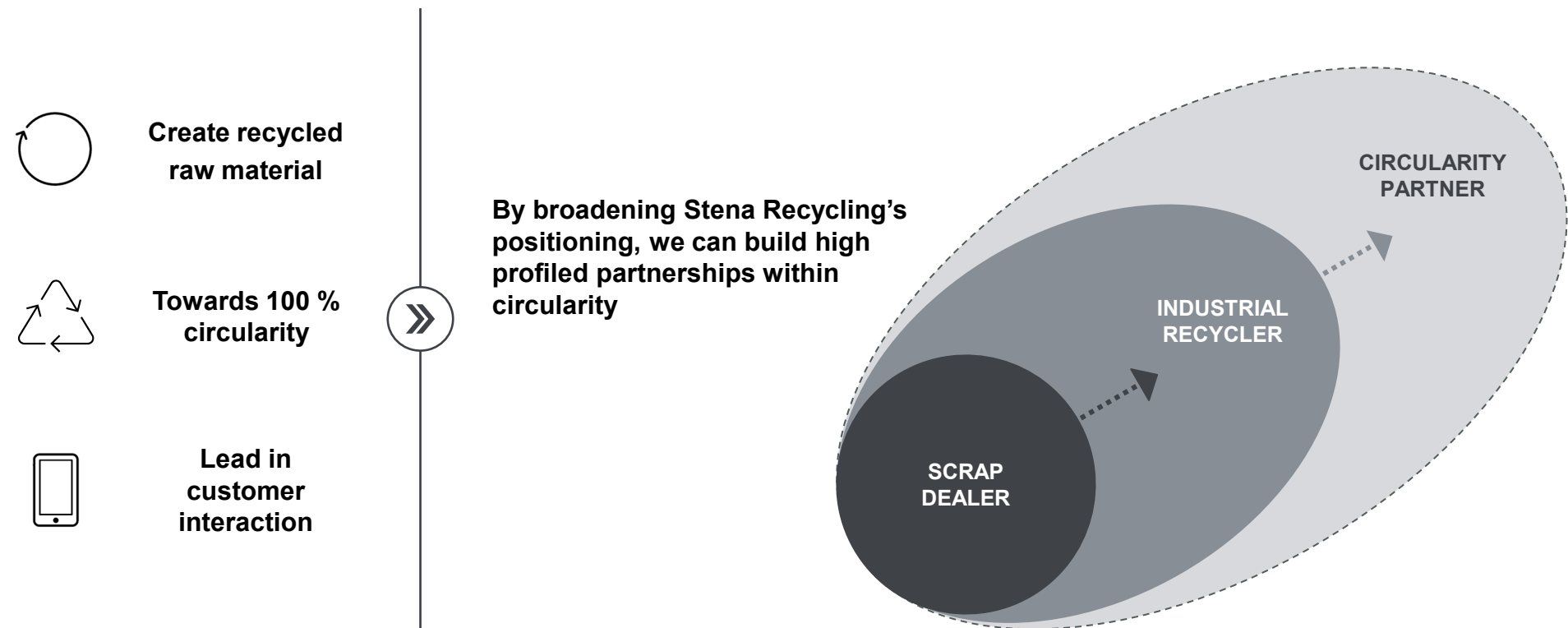


INFRASTRUCTURE

Source: Company Information | Note: Financial Data per Q2 LTM 2021/2022. 1) Not available per Q2 LTM 2021/2022. Figures shown per fiscal year 2020/2021.

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# STENA RECYCLING – Our DEVELOPMENT & Journey



INDUSTRIAL CIRCULARITY PARTNER  
STRIVING TOWARDS A 100% CIRCULAR SOCIETY



SAFETY ALWAYS  
COMES FIRST

CONTINUOUS  
DEVELOPMENT IS  
ESSENTIAL



## WHY



### **EUROPE'S ELECTRIFICATION TARGETS:**

SUPPORTING THE TRANSITION TO ELECTRIC MOBILITY AND RENEWABLE ENERGY STORAGE

### **COMPLYING WITH THE NEW BATTERY LEGISLATION:**

TOUGHER REQUIREMENTS TO REDUCE ENVIRONMENTAL IMPACT AND SECURE RARE MATERIAL SUPPLY

## WHAT



BATTERIES, RANGING FROM EV TO INDUSTRIAL, LIGHT MEDIUM TRANSPORT (LMT) AND CONSUMER TYPES, ARE COMPLEX DEVICES COMPOSED OF METALS LIKE LITHIUM, COBALT AND NICKEL, EACH REQUIRING SPECIALIZED HANDLING DUE TO THEIR DISTINCT STRUCTURES AND PURPOSES.

## HOW







STENA RECYCLING HAS INVESTED > 300 MSEK TO MEET THIS DEMAND, RESULTING IN AN ADVANCED PROCESS TO SAFELY DISMANTLE, SEPARATE AND RECYCLE BATTERY MATERIALS.

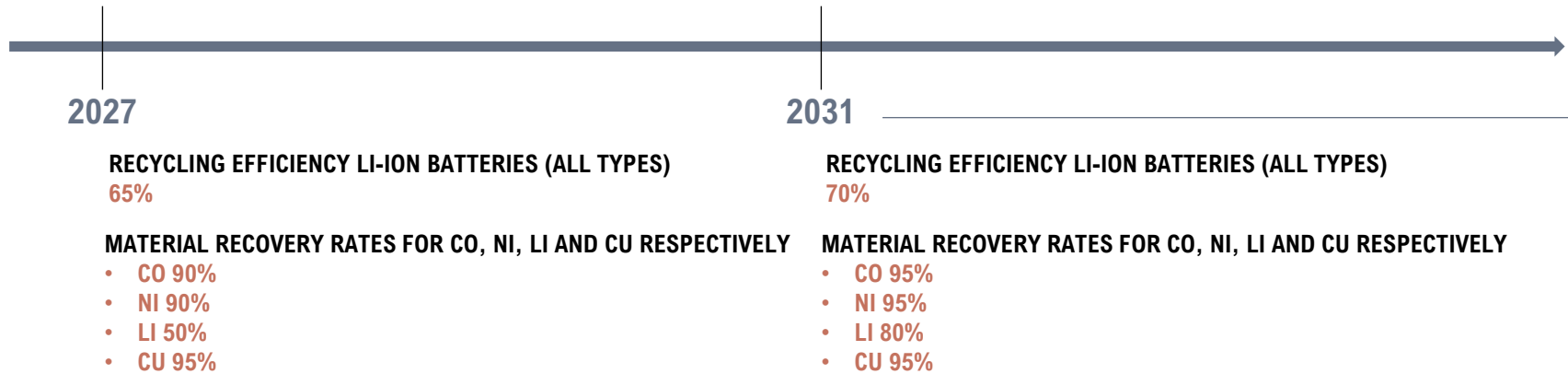
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# THE NEW BATTERY LEGISLATION | HIGHER DEMANDS ON ALL ACTORS IN THE SUPPLY CHAIN

## KEY AREAS OF THE NEW LEGISLATION

-  **SUSTAINABLE DESIGN:** BATTERIES NOW NEED TO MEET ECO-FRIENDLY STANDARDS, FROM MATERIALS TO MANUFACTURING
-  **RESPONSIBLE SOURCING:** NEW RULES FOR SAFE AND ETHICAL SOURCING OF BATTERY MATERIALS
-  **BATTERY PASSPORT:** DIGITAL RECORDS FOR TRACKING BATTERY DETAILS, LIFESPAN AND RECYCLING
-  **HIGHER RECYCLING TARETS:** STRICTER GOALS FOR RECYCLING KEY METALS LIKE LITHIUM AND COBALT




ACCORDING TO THE AGREEMENT, FROM AUGUST 2031, (>) INDUSTRIAL BATTERIES WITH A CAPACITY GREATER THAN 2 KWH, NEW BATTERIES MUSTY CONTAIN A SET PERCENTAGE OF RECYCLED MATERIALS

- CO 16%
- NI 6%
- LI 6%


It starts here.

# BATTERIES DECODED | WHAT IS THE DIFFERENCE?


WHAT'S WHAT UNDER THE NEW REGULATION?

**EV BATTERY (ELECTRIC VEHICLE BATTERY)**

**DESCRIPTION:** BATTERIES POWERING ELECTRIC VEHICLES LIKE CARS, BUSES AND TRUCKS

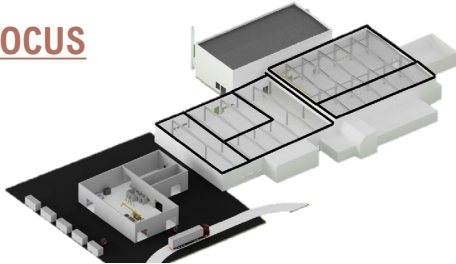
**INDUSTRIAL BATTERY**


**EXAMPLE:** POWER GRIDS, FORKLIFTS AND SOLAR ENERGY STORAGE SYSTEMS

**SLI BATTERY (STARTING, LIGHTNING, IGNITION)**


**EXPAMPLE:** CAR BATTERIES, SOME MOTORCYCLES, AND BOATS

**LITHIUM-ION BATTERIES - TODAY'S FOCUS**



**LMT BATTERIES**

**DESCRIPTION:** E-SCOOTERS, E-BIKES, HOVERBOARDS






**CONSUMER BATTERIES**

**DESCRIPTION:** PHONES, LAPTOPS, REMOTE CONTROL

INBOUND CUSTOMER

SORTING

OUTBOUND CUSTOMER



NIMH


NICD

LITHIUM METAL

LITHIUM-ION

ALKALINE

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# STENA RECYCLING GROUP BATTERY RECYCLING

7

Locally present in markets

## Collection network

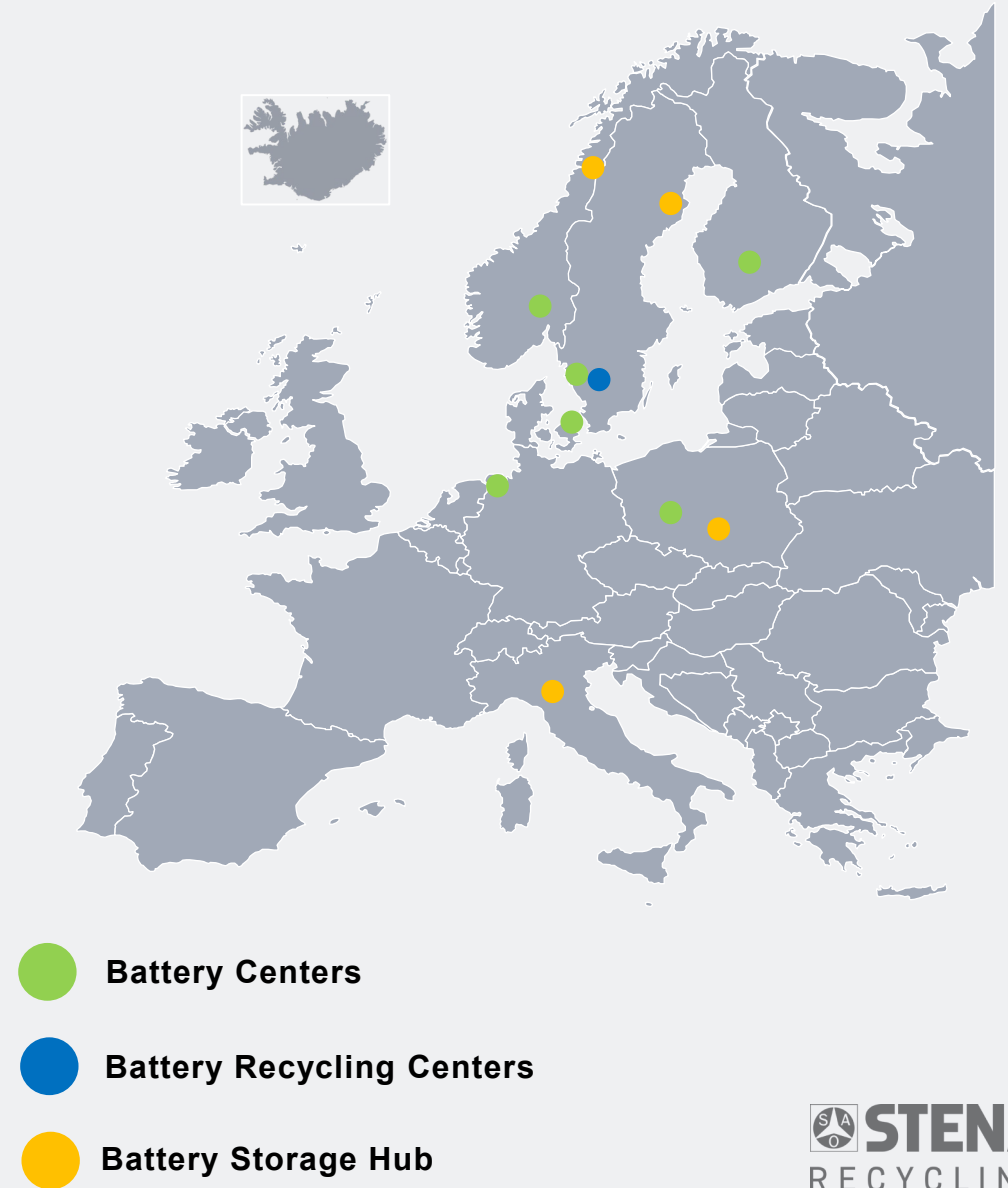
Extensive network in Europe

## Industrial

Scalable and modul-based recycling capacity

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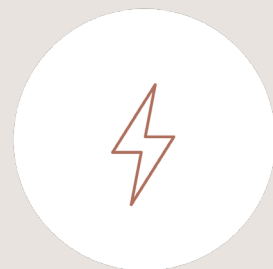
### Battery Activity Footprint 2024





# SOURCES OF BATTERIES

PRODUCTION SCRAP AND END-OF-LIFE VEHICLES.



Battery Producers  
(OEM)



Production scrap



Cells, Modules  
& Packs



End of Life Vehicle

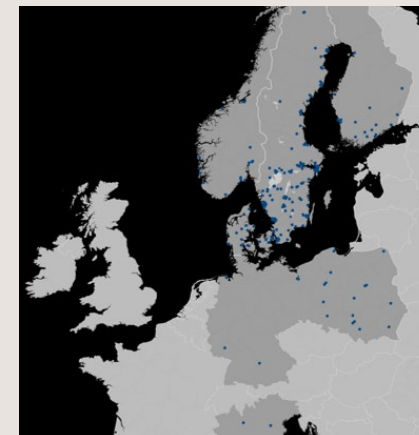


Cells, Modules  
& Packs



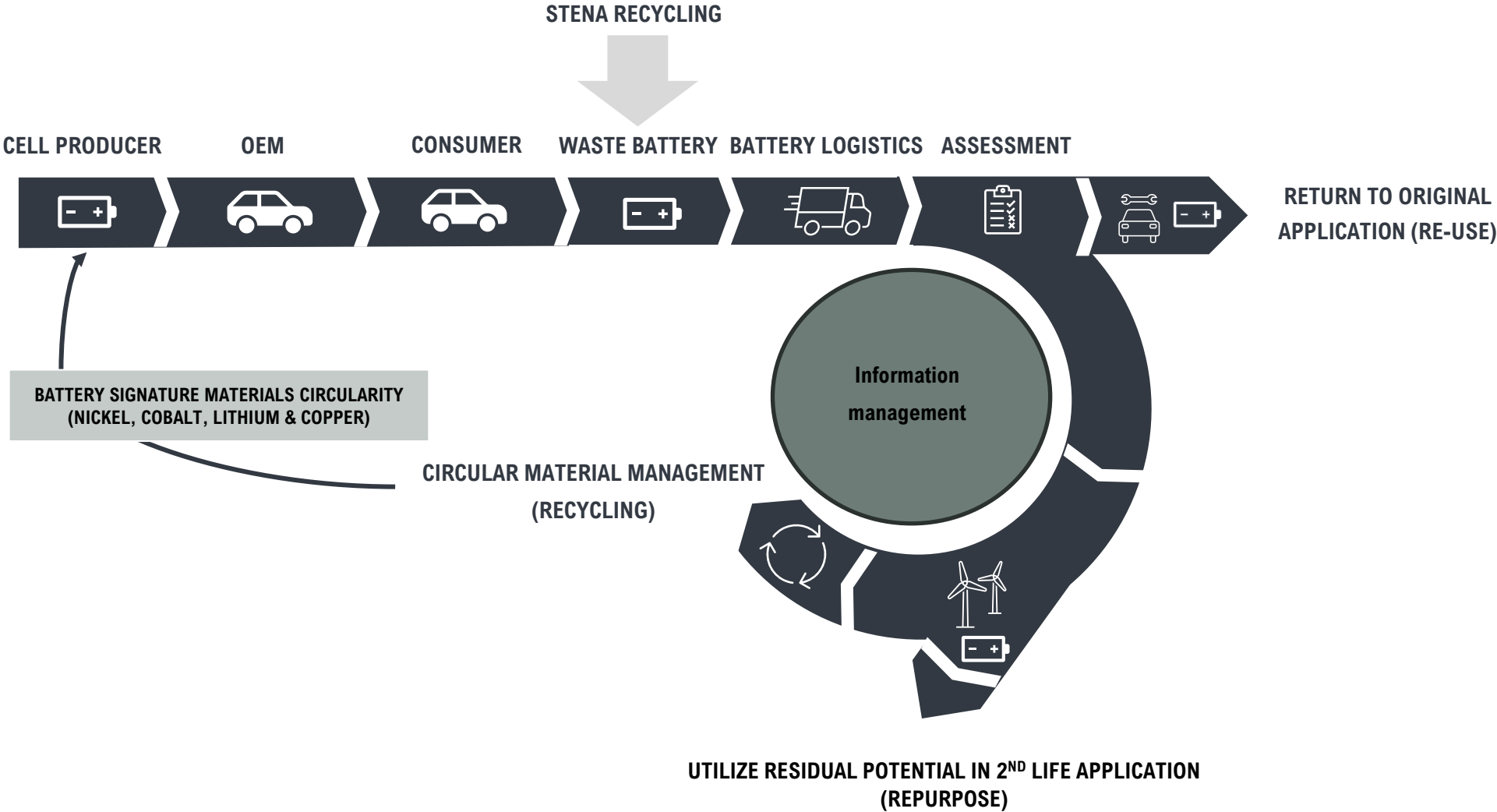
Stena Collection

Compliance and safety  
All ADR classess  
On-site services  
Packaging management  
Expanding footprint  
Partnerships



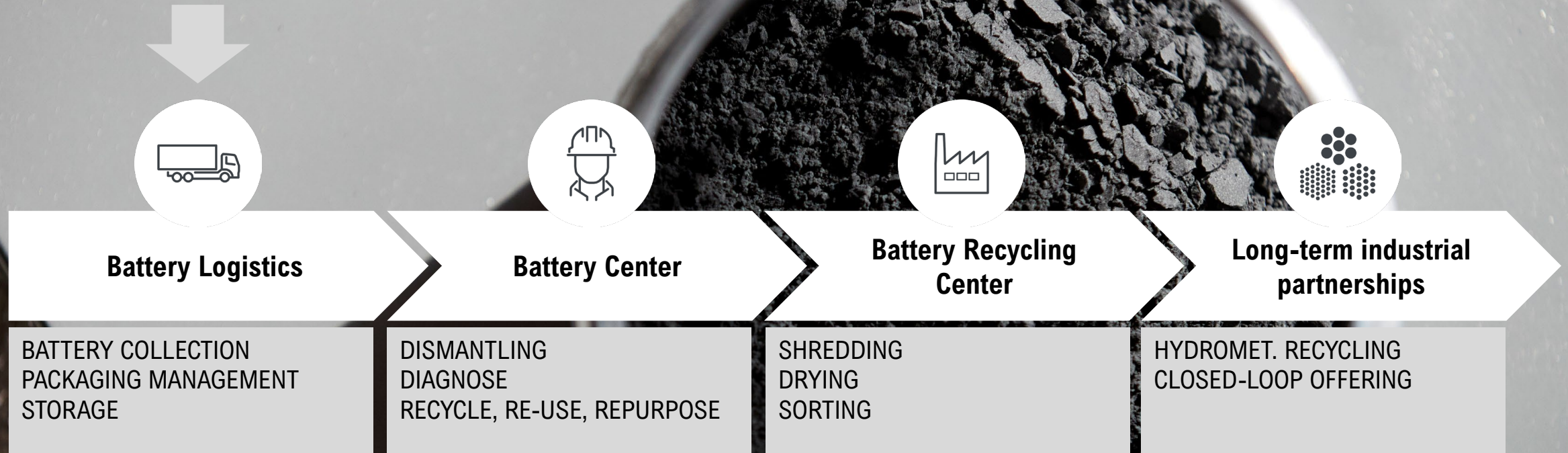
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# THE BATTERY LIFE JOURNEY | GENERAL



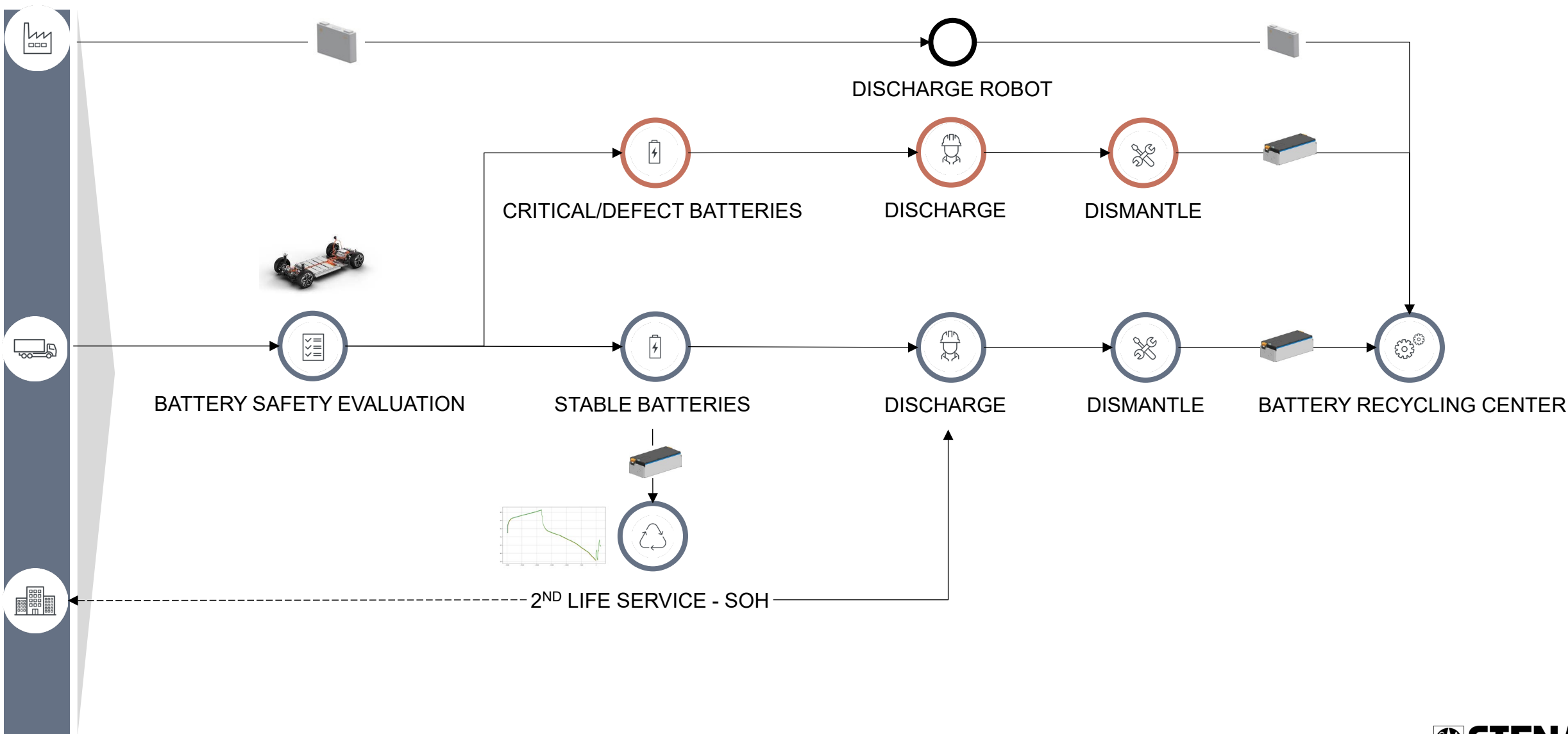
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# OVERVIEW | OUR SERVICE





# BATTERY CENTER | PRE-TREATMENT

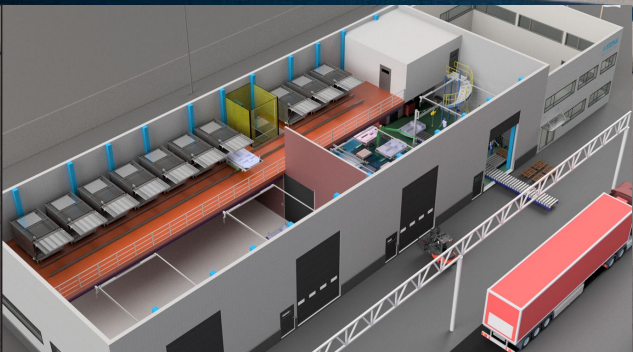


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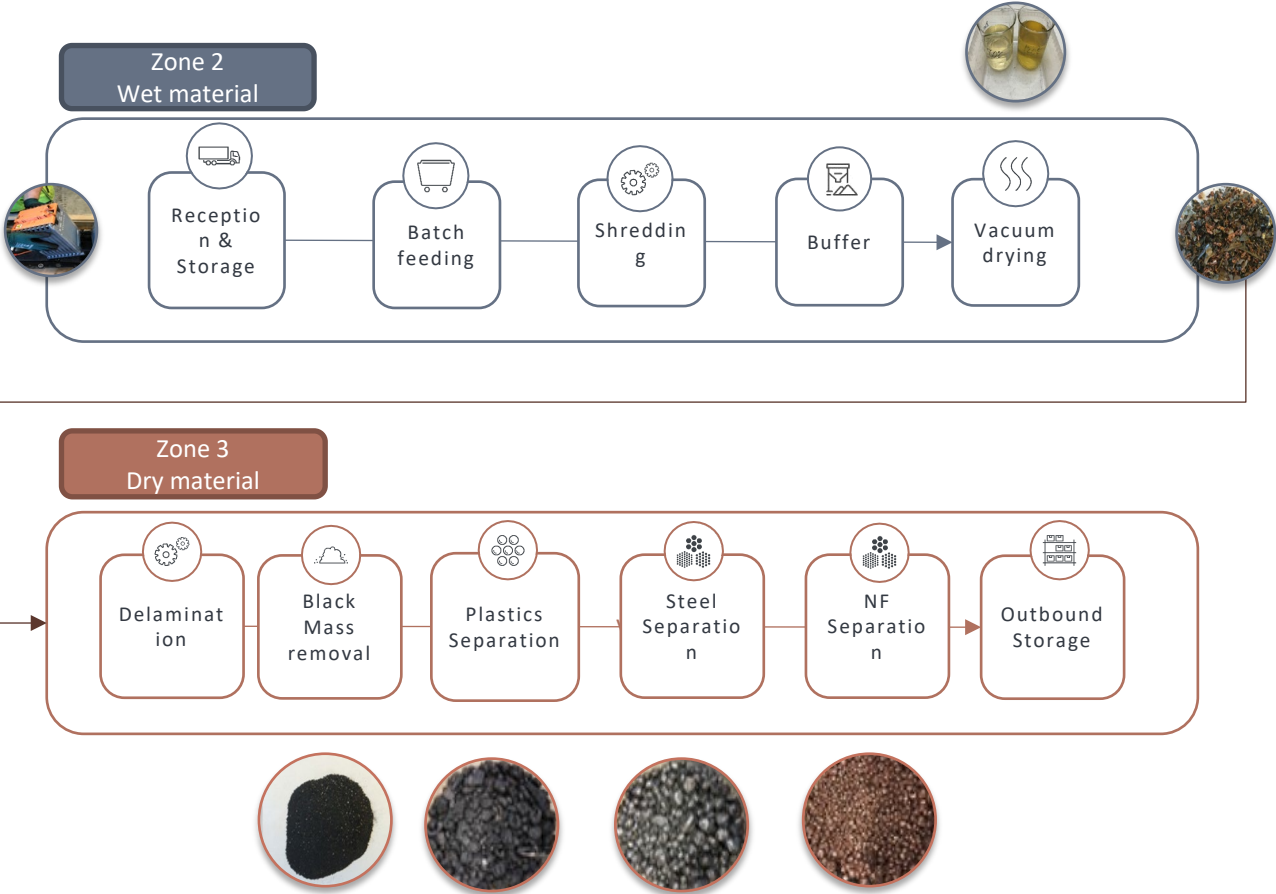
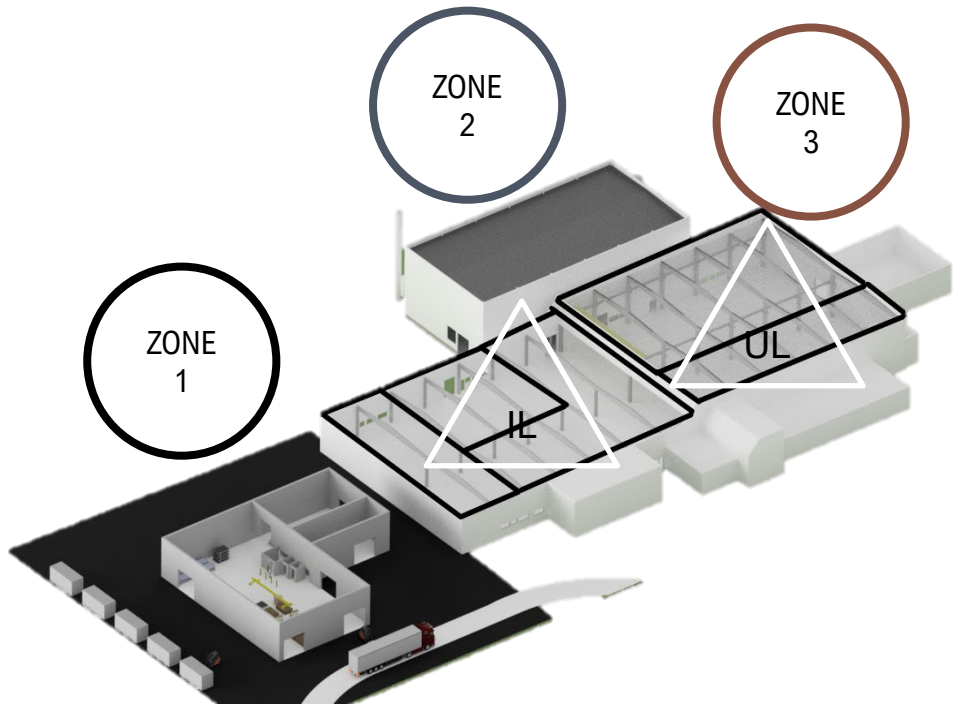
# BATTERY CENTRES



NORWAY  
SWEDEN  
DENMARK  
GERMANY  
FINLAND  
POLEN  
ITALY



# BATTERY RECYCLING CENTER | RETURNING CRITICAL BATTERY MATERIAL



It starts here.



# BATTERY RECYCLING CENTER





A close-up, shallow depth-of-field photograph of a dark, metallic grate. The grate features a complex pattern of raised rectangular and triangular sections. A prominent circular hole is visible in the lower-left quadrant, slightly out of focus. The lighting creates strong highlights and shadows, emphasizing the texture and form of the metal. The background is heavily blurred, showing more of the grate's structure.

IT STARTS HERE.

# RE<TURN TO THE FUTURE>

EXPLORE THE POWER OF CIRCULARITY FOR LI-ION BATTERIES

[www.stenarecycling.com](http://www.stenarecycling.com)