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for an environment  
worth living in

# Li-Ion Traction Batteries Recycling-

The future of battery recycling –  
technologies and challenges

Eco-Mobility Conference 2020

19<sup>th</sup> of November 2020

DI Ralf Mittermayr – CEO, Saubermacher  
Dienstleistungs AG



# Key figures\*

1979

founding year

€ 305

million turnover p.a.

3,200

employees

77

recycling plants

3,5

million tons of waste p.a.

75

participations

**680**

specialised vehicles

**42,000**

customers

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\* 31/12/2019

# Structure of a Energy Storage System (ESS)



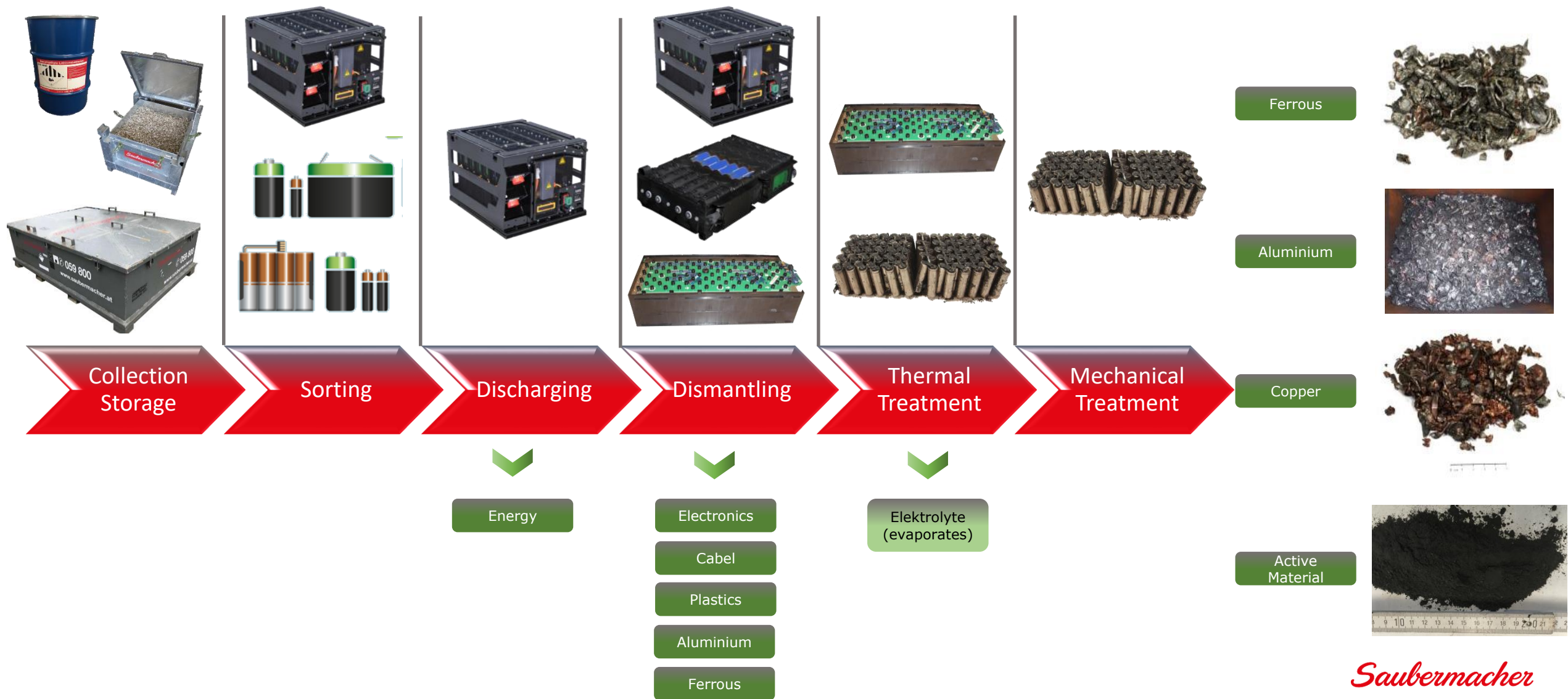
- Anode
- Cathode
- Separator
- Electrolyte

- Battery Cell

- Battery Pack

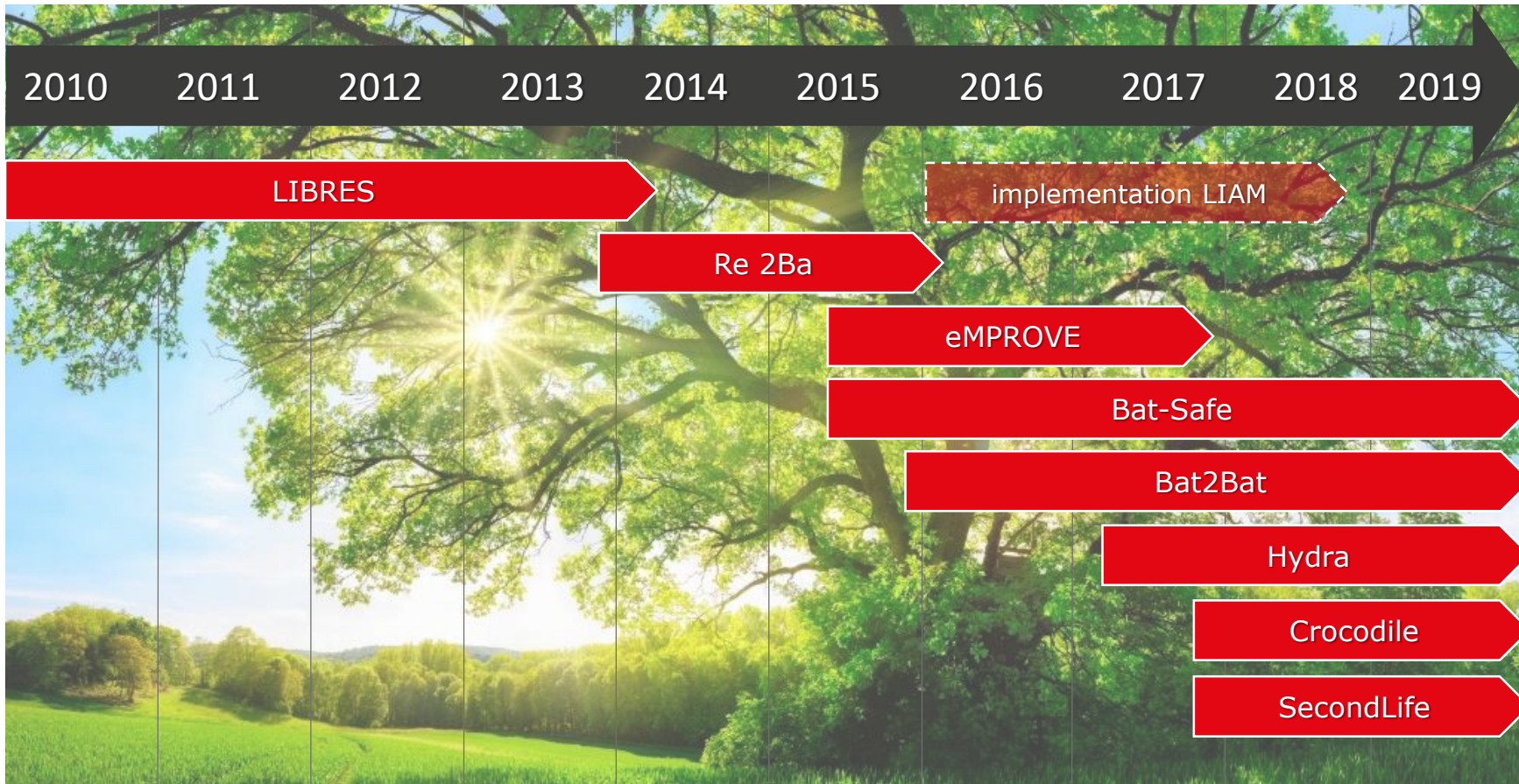
- Energy Storage System (ESS)

# Process of Battery Recycling | Li-Ion



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## Battery Research and Milestones



- intensive cooperation with universities, research facilities and industrial partners
- continuous development of our plant technology

# LIAM-Plant



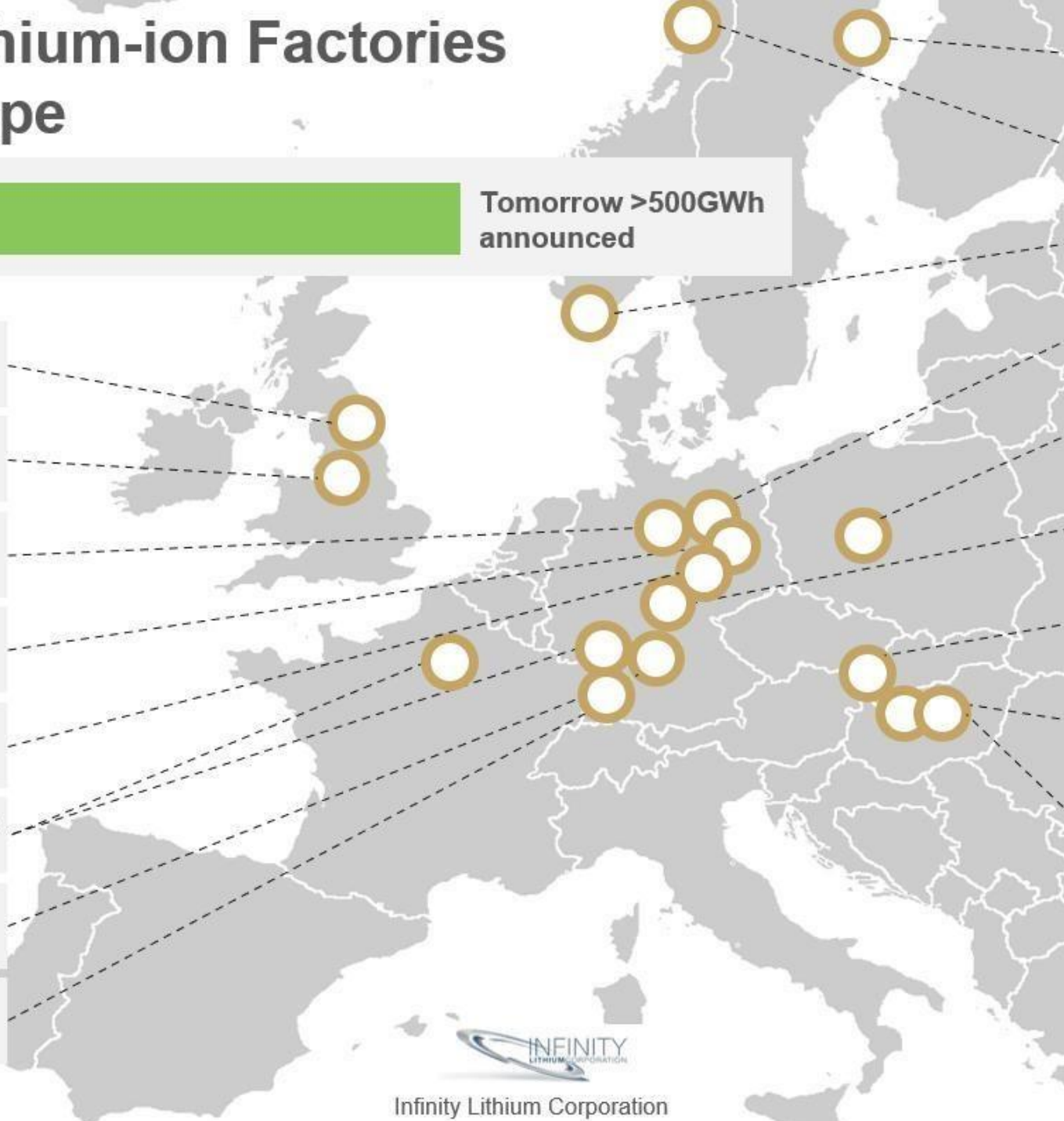
- + ● Recycling of two different Material Flows
- + ● Capacity: 10.000 t/a
- + ● Throuput: ca.5 t/h

Recycling Line

# Multitude Of Lithium-ion Factories Planned In Europe

Today <10GWh Capacity | Tomorrow >500GWh announced

-  Started 2010, 2.5GWh
-  Start 2023, up to 35GWh
-  16GWh to start and ramp up to 30GWh
-  To build Gigafactory starting in 2021
-  Start 2022, up to 10GWh
-  Start 2022, 16GWh then 64GWh
-  Start 2023, up to 24GWh
-  Start 2020, up to 1GWh



-  Start 2021, up to 40GWh
-  Start 2023, up to 32GWh
-  Start 2024, up to 32GWh
-  Start 2021, up to 12GWh
-  Started 2018 6GWh later up to 70GWh
-  Start 2022, up to 100GWh
-  Start 2024, up to 10GWh
-  Start 2020, up to 24GWh
-  Started 2018 3GWh, later 15GWh
-  Potential plant in Hungary
-  Potential plant in Europe
-  Potential plant in Germany

  
Infinity Lithium Corporation

Thank you!

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