



solveteq

Sustainable Battery Recycling

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27/06/2023



Although lead-acid batteries are a textbook example of a circular economy,

Incumbent lead recycling technology is energy-intensive and intrinsically polluting

Formal market

Facing critical challenges:

- Environmental regulations
- Energy & pollution control costs
- Net Zero Emissions of GHG

Informal market

- Responsible for lead poisoning of 1 in 3 children worldwide (UNICEF, 2020)
- Up to 50% of the market in LMICs (WEF, 2019)
- "Backyard" operations





Solveteq's technology enables sustainable recovery of lead from used batteries with minimal environmental impact

Our technology offers recycling companies:

Reduced compliance costs

Reduced energy consumption

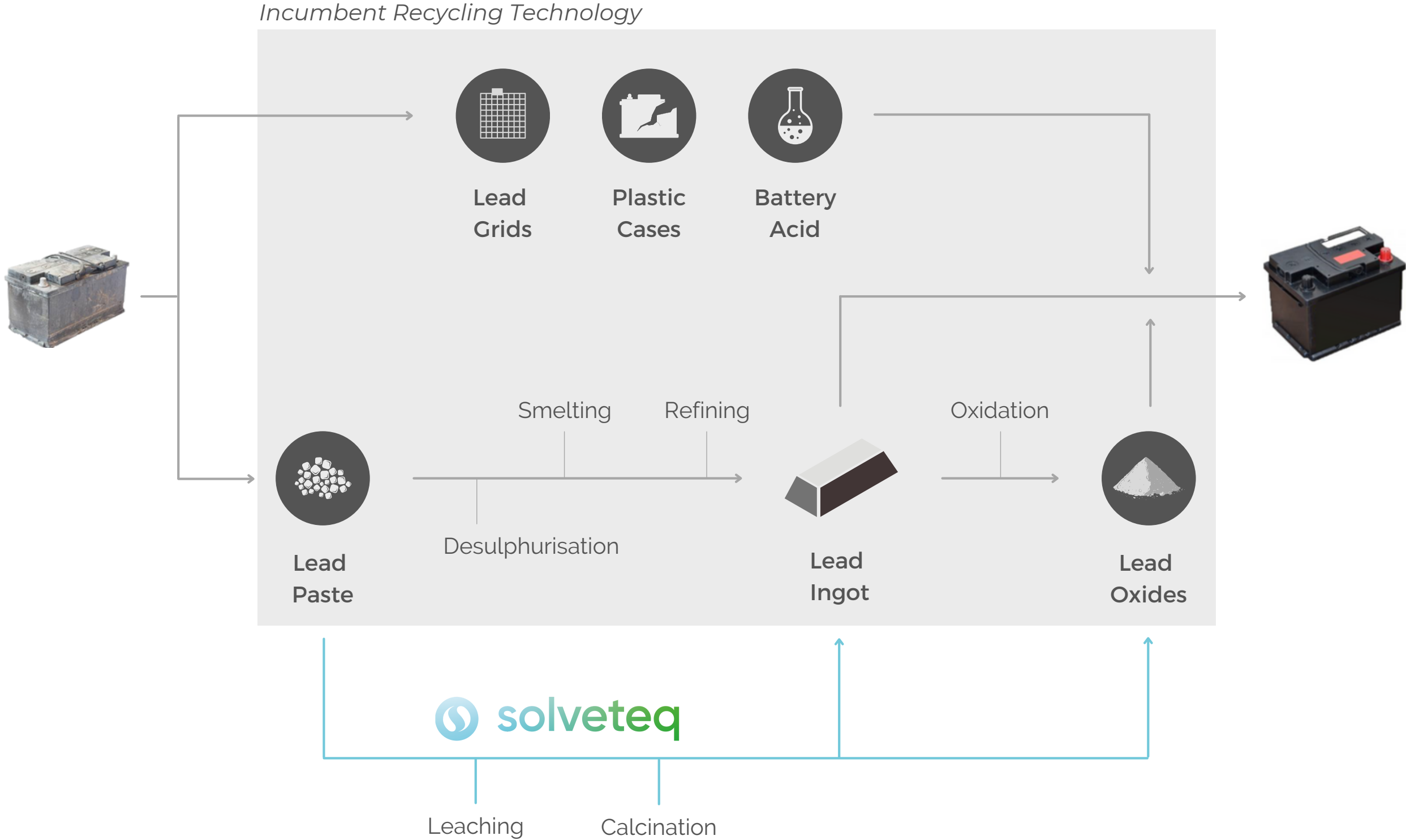
Reduced carbon footprint

Minimal waste and emissions: lead, slag, SO_x

1/10th CapEx

The Technology

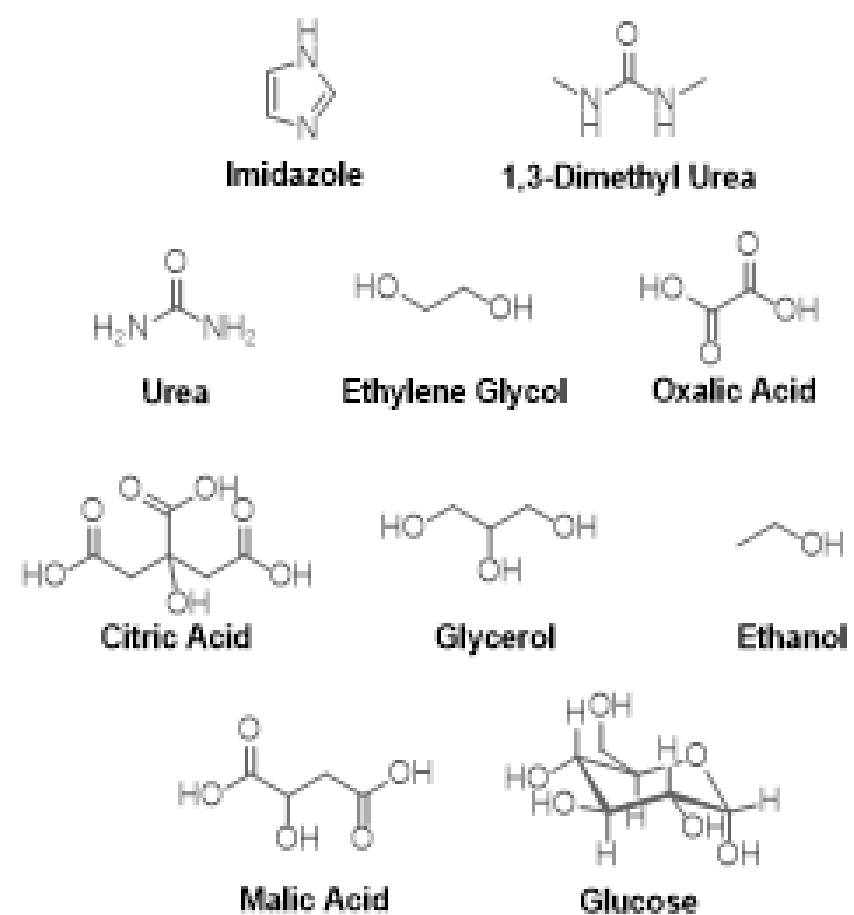
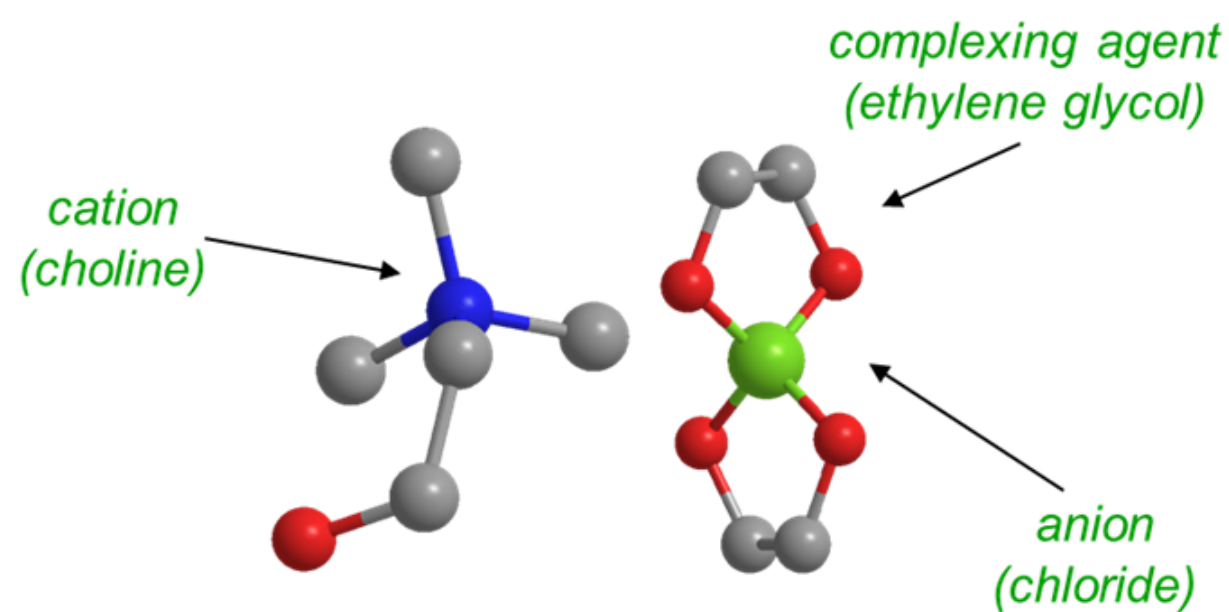
Green
Proprietary
Modular
Scalable



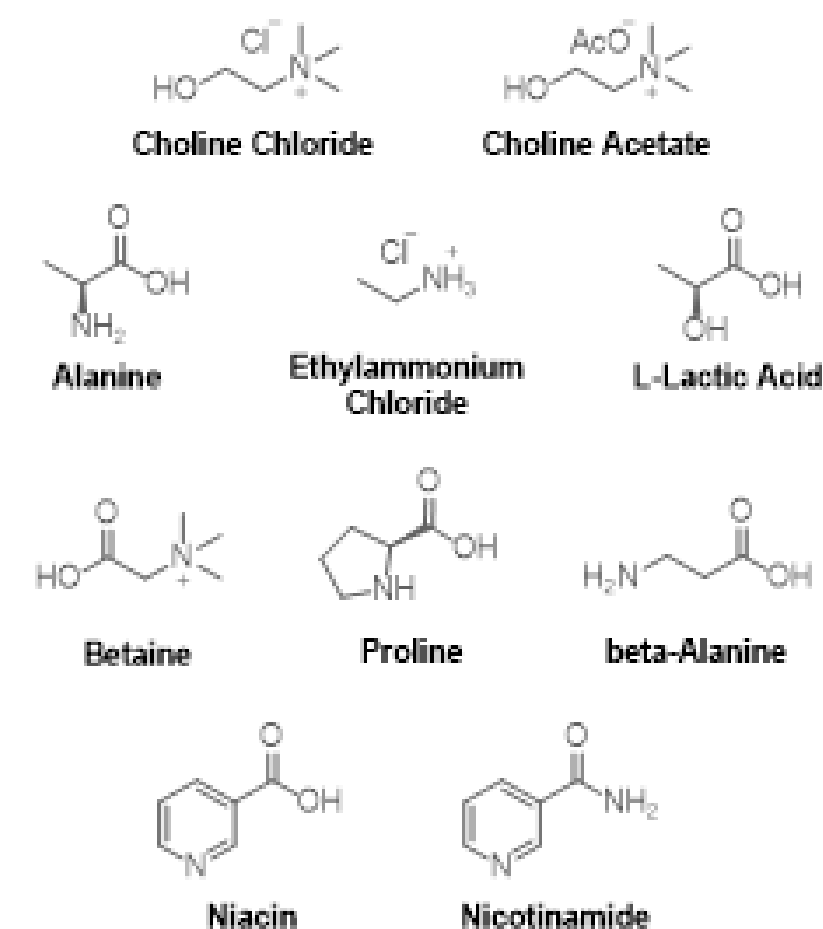
2 component systems

Not off the shelf but:

- Low-cost materials
- Readily available
- Benign chemicals
- Easy to synthesise
- Tunable properties



HBD



HBA

Solveteq to Date

Innovation presented at industry's flagship conference



Prototype 1kg/hr



ENERGY CATALYST

2021



Start-ups aim to change car battery recycling, clean up world's most polluting industry

[Link](#)

WOMEN IN INNOVATION

2023

First Paying Customer

Funding

[Entrepreneurial Fellowship The Faraday Institution \(£97k\)*](#)

Pre-seed Investment

[Energy Catalyst Round 8 Innovate UK](#)

[Women in Innovation Award Innovate UK](#)





OLA HEKSELMAN

CEO & Co-founder

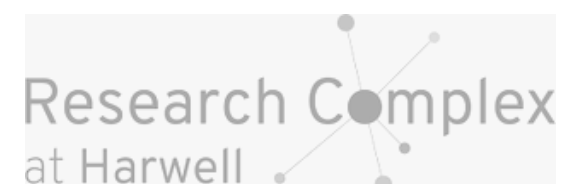
- Co-invented technology
- Driving commercialisation & technology development
- 11 years in battery research
- Imperial, Oxford, St Andrews, CSIRO



DAVID PAYNE

Co-founder

- Co-invented technology
- Developed the initial research in this area
- Professor at Imperial College
- Director of Research Complex at Harwell



PAUL ARWAS

Chairman

- 20+ years in chemicals & renewables sector
- Former VP at Arthur D. Little
- Former Chair of Inflowmatix
- Chair of Heron Marine Services



MARK STEVENSON

Tech Advisor

- 40+ years in lead industry
- Globally esteemed expert
- Lifetime Achievement Award in 2019 for his commitment to lead industry



Thank you



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