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, SOx
1/10th CapEx
The Technology

Green
Proprietary
Modular
Scalable
Low-cost materials
Readily available
Benign chemicals
Easy to synthesise
Tunable properties

2 component systems

Not off the shelf but:
- Low-cost materials
- Readily available
- Benign chemicals
- Easy to synthesise
- Tunable properties

Deep Eutectic Solvents

- HBA
- HBD
- Choline Chloride
- Choline Acetate
- Alanine
- Ethylammonium Chloride
- L-Lactic Acid
- Betaine
- Proline
- beta-Alanine
- Niacin
- Nicotinamide
## Solveteq to Date

<table>
<thead>
<tr>
<th>Innovation presented at industry's flagship conference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prototype 1kg/hr</td>
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<tr>
<td><strong>ENERGY CATALYST</strong></td>
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<tr>
<td><img src="image1.png" alt="Image" /></td>
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<tr>
<td><strong>WOMEN IN INNOVATION</strong></td>
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<tr>
<td><img src="image2.png" alt="Image" /></td>
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<tr>
<td><strong>First Paying Customer</strong></td>
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</tbody>
</table>

**2021**

**Funding**
- Entrepreneurial Fellowship
  - The Faraday Institution (£97k)*
- Pre-seed Investment
- Energy Catalyst Round 8
  - Innovate UK
- Women in Innovation Award
  - Innovate UK

![Logos](logos.png)
OLAJ 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  

Imperial College London  
Research Complex at Harwell  
UNIVERSITY OF OXFORD  
University of St Andrews  
CSIRO
Thank you

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