

Pivotal Battery

The Fastest Way to Compete
October 2019

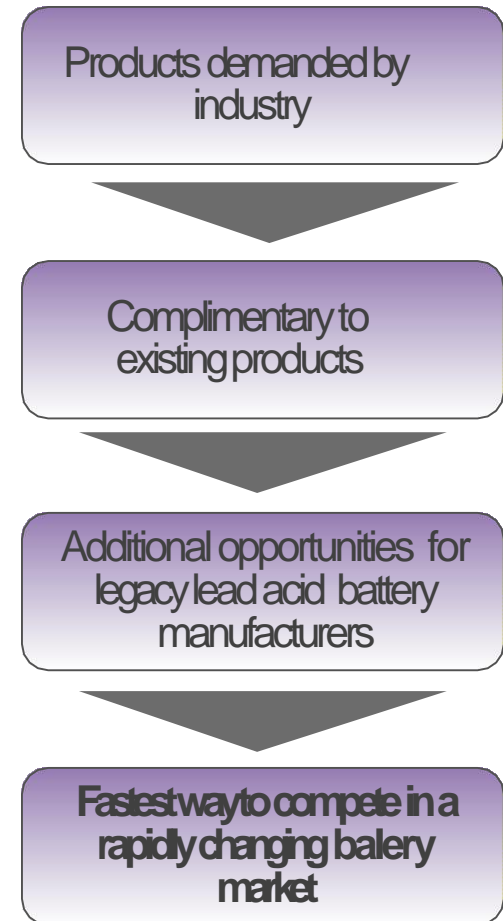
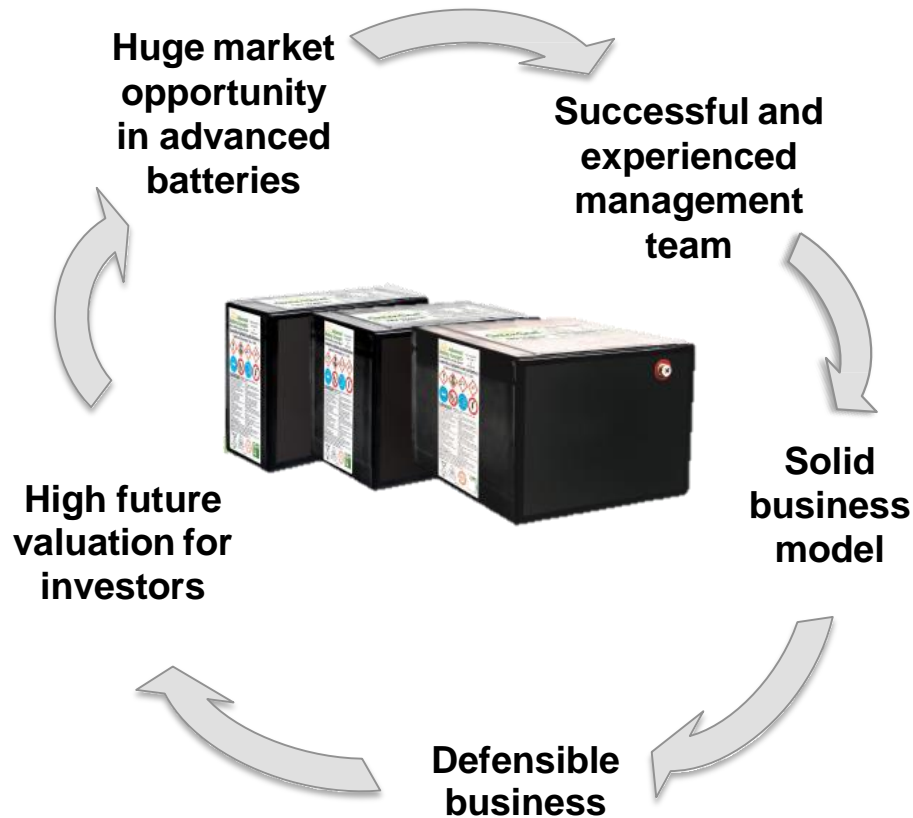
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These forward looking statements and projections should not be relied upon, but are provided only to show a theoretical outcome. Actual results may be materially different. We cannot and do not warrant the accuracy, completeness or timeliness of the information contained therein. The statements in this document are not historical facts and are forward looking statements which involve risks and uncertainties; actual results may differ from the forward looking statements. Sentences or phrases that use such words as “pro-forma”, “projection”, “anticipates”, “attempt”, “target”, “develop”, “working to”, “working toward” and others indicate forward looking statements, but their absence does not mean that a statement is not forward looking. The Company undertakes no obligation to publicly release the results of any revisions to these forward looking statements that may be made to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

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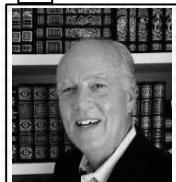
The Pivotal Battery Proposition



Management Team



The team has proven successes and drive to build a better battery



Richard Bogan (Managing Director & Director)

- Former CEO of advanced lead acid battery manufacturer
- President or CFO in Fortune 500 companies / major corporations.



John Boesel (CFO & Director)

- President of Global Energy Source Inc., a private investment holding company focused in the energy sector.
- Advised and funded numerous micro-cap, small-cap, and emerging market companies in the US, Europe and China.



Slobodan ('Bob') Pavlovic (Chief Scientist and VP of Engineering)

- Industry leader in conductive plastics.
- Holds over 35 patents, including seven related to conductive plastics.



Mo Zeidan (Chief Technology Officer)

- Former CTO of Hybrid Engineering at Lear Corp.
- Advanced Engineering Leader at United Technologies Automotive.



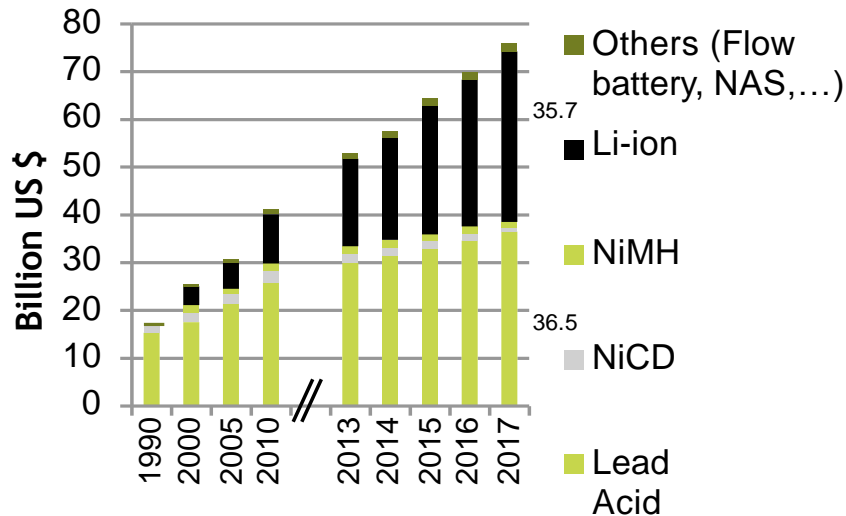
James Eagan (Chairman)

- Chairman, Integral Technologies, Inc. a leader in conductive plastics
- Turnaround leader - acquired ORBCOMM (NASDAQ:ORBC) from chapter 11 and led restructuring. Today an M2M and IoT leader.

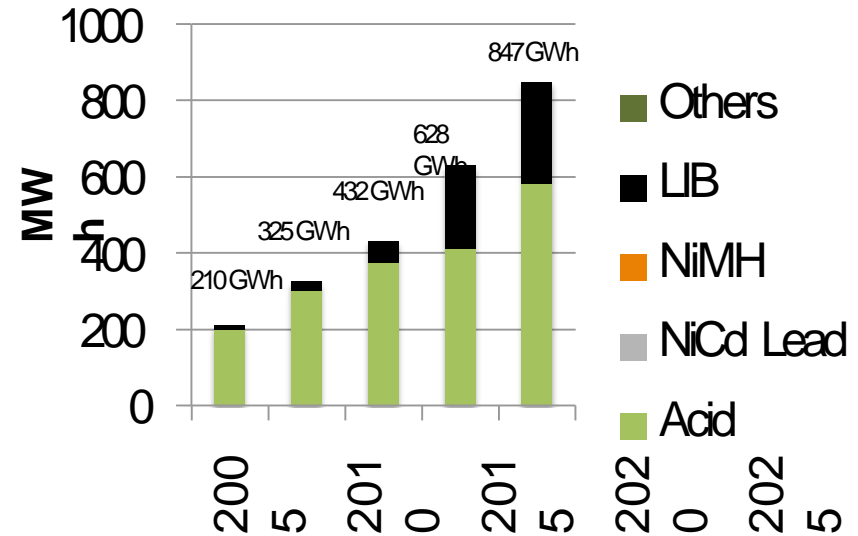


The Market

Industry undergoing massive growth but lead acid revenue per unit being squeezed



Global Sales in US\$



Global Battery Demand

Opportunity

- Conventional lead acid batteries are heavy and lack performance
- Difficult for lead acid to compete with lithium-ion (Li-ion) in present form

Market Changes

- Electric vehicle (EV) changing battery landscape with Li-ion fastest growing sector
- Volume leader remains lead acid

Pivotal Battery Positioning

- Polymer based bipolar batteries are presently only proven solution
- Scalable across multiple battery chemistries

Initial Focus

- Global lead acid battery market segmentation



- Telecom
- Energy Storage



- Automotive remains largest and fastest growing segment

15%*

25%*

60%*



- Forklifts
- Small motorized vehicles



- Starting, Lighting & Ignition
- Low speed electric vehicles (LSEV)
- Hybrid 12V/48V (Stop-Start)



Market Segments

Automotive

Motive

Stationary

Battery 101

The three fundamental components are:

Cathode

Known as the positive electrode or plate.
Made of lead dioxide

Anode

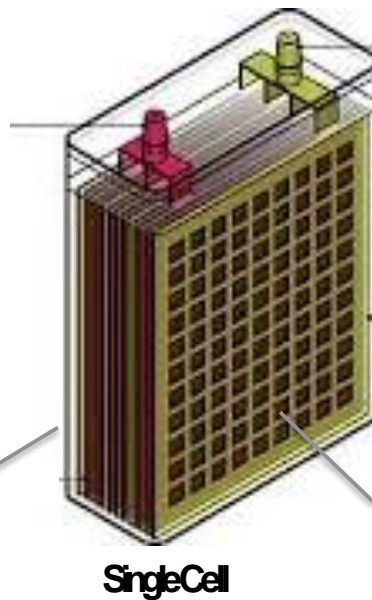
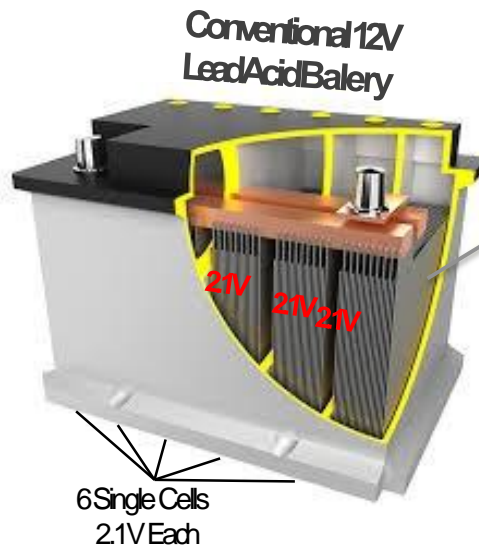
Known as the negative electrode or plate. Made of lead

Electrolyte

Mixture of sulfuric acid and water

Plates

Number of plates varies based on manufacturer but range from 4- 16 plates per cell



Technology Transition

Bipolar technology accelerates lead acid battery development

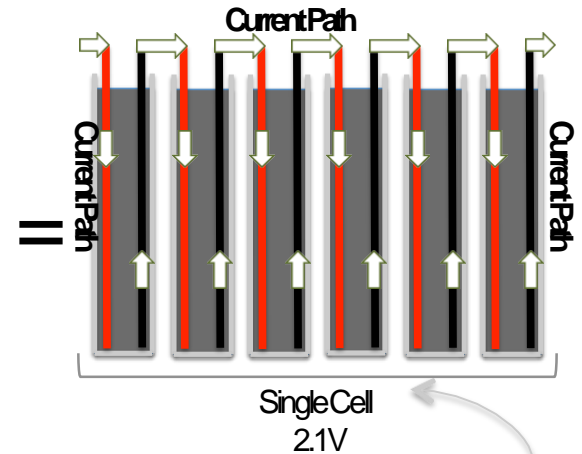
12V Conventional Battery

- Large & Heavy
- Up to 96 plates depending on manufacturer
- Performance not optimized

Up to 16 Plates



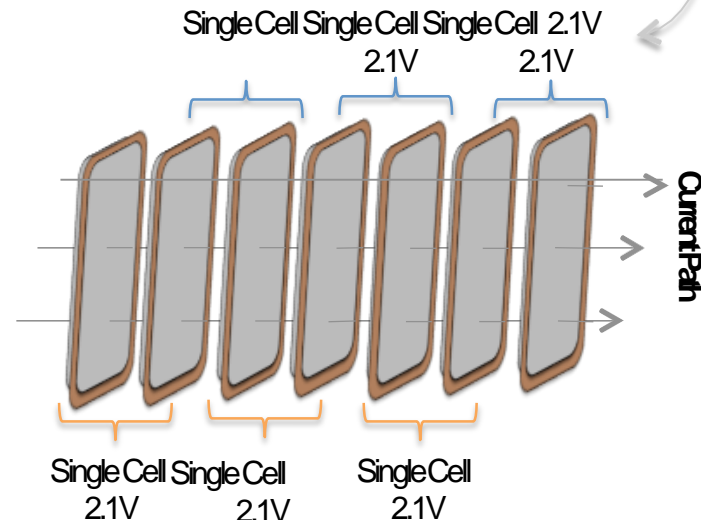
Single Cell
2.1V



Same Voltage

12V Pivotal Bipolar Battery

- 1/5 size and weight
- 7 plates
- 2X power



The Pivotal Product

 Polymer based solution gives Pivotal BaEery a competitive edge

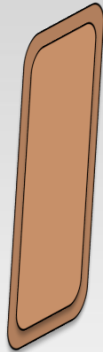
Conductive Plastic

Proprietary carbon fiber polymer enables new biplates

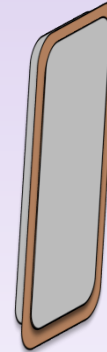


Injection Molding

Off-the-shelf molding techniques enable scalable production



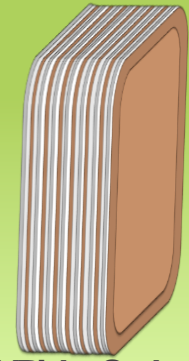
LeadFoil Proprietary technique to attach lead foil to both sides of the plate



Single Biplate

Complete Product

Integrate into a product line of available bipolar batteries



12V Bipole Stack



Global
Patent
Protection
(Pending)



Battery Comparisons

Pivotal BaEery comparable to latest baEery technologies

Major Drivers

- ✓ Size
- ✓ Cost
- ✓ Performance

Pivotal Bipolar Battery

- Lead acid battery
- 12V, 45Ah



Conventional Lead Acid

- Monopolar, 45Ah
- Stop– Start battery



- **Power:** 2X power
- **Weight:** 60% lighter
- **Volume:** 40% smaller
- **Cost:** 15% less

Lithium-ion

- Monopolar, 45Ah
- Stop– Start battery



- **Power:** Comparable
- **Weight:** Similar
- **Volume:** 20% smaller
- **Cost:** 3X less*

Value to Customer



Pivotal BaEery offers the industry's simplest solution for advanced baEeries



| | Pivotal Battery | Strategic Partner | LeadAcid Balery Manufacturers |
|--------------|---|--|---|
| Scalab le | Supports large volume manufacturing | Accelerates commercialization | Majority of the processes are off-the-shelf |
| Co st | 1/3 cost of new technology | Zero additional cost to final product | Meets industry cost metrics |
| Benfits | Enables manufactures to compete with new technologies | Supports present product line | Makes legacy lead acid battery companies relevant and competitive |

Customer Acquisition

- Focus on players seeking to increase market share and battery “ARPU”

Target Customer

- Lead acid battery companies desiring to gain competitive advantage
- Market: any manufacturer making lead acid batteries
- Pivotal’s Cost: drive customer awareness + battery availability now

Selling Points

- 25+ years growth prospects
- Safe
- Reliable
- Recyclable 
- Sustainable

Strategic Partnership

- Access existing licensee network
- Customers’ have already adopted bipolar battery technology

Vehicle Electrification

- Ride electrification wave
- Combustion engine to be phased out by 2050*

400+ Million Lead Acid Batteries Sold Worldwide Annually

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