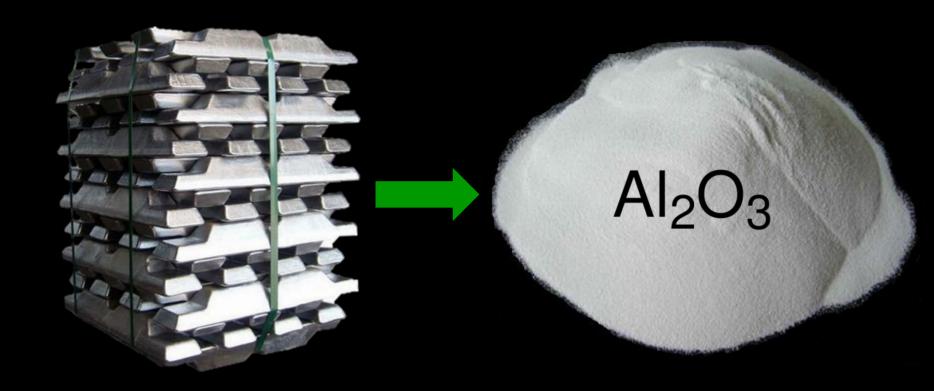
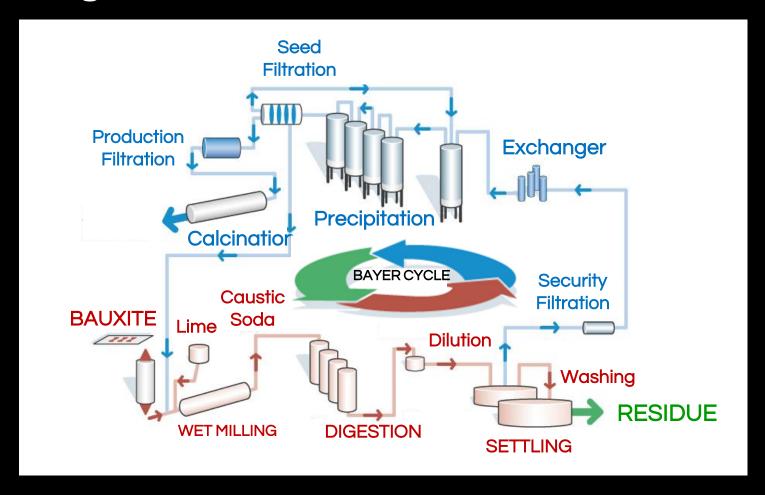
Aluminum Oxide - Alumina



A novel, low cost, environmentally friendly process for refining Aluminum into Ultra High Pure Aluminum Oxide

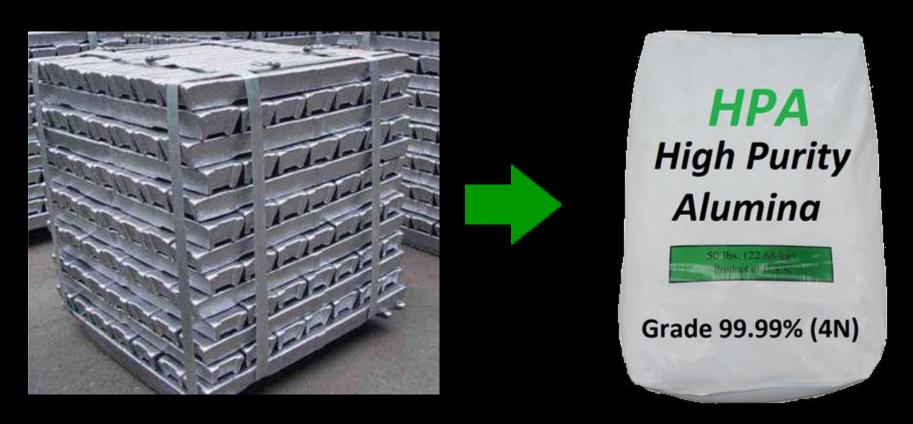
The Problem

Existing Aluminum Oxide Production Processes



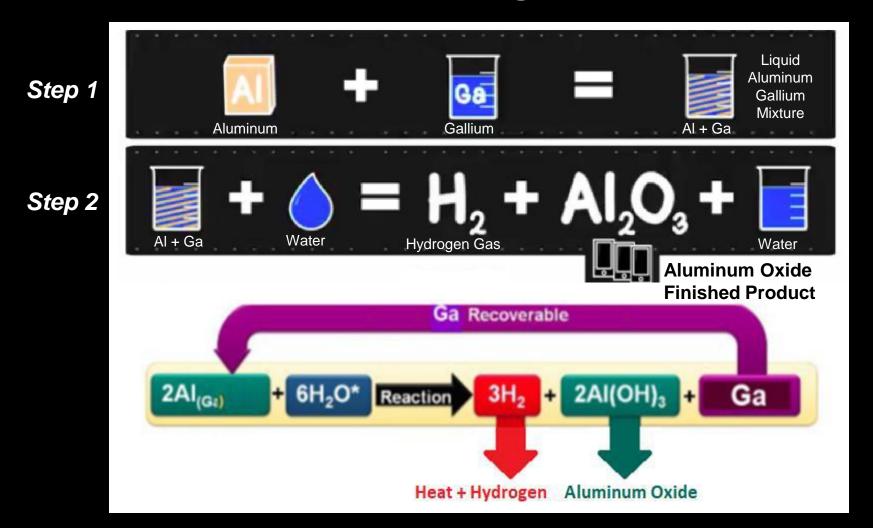
are expensive and not environmentally friendly

Our Solution



The novel Woodall process synthesizes \$2 per kg aluminum into \$40 per kg - N4 - High Purity Alumina (HPA)

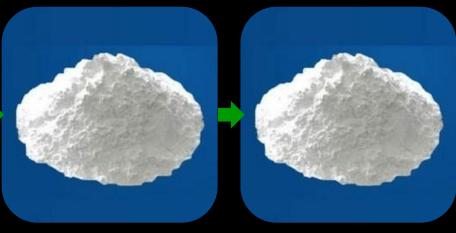
The Woodall process operates at a fraction of the cost of existing processes...



...and the only waste products are Heat and Hydrogen Gas

Our Target Business





Smelter Grade
Alumina
SGA 99.5%
\$400 per ton

High Purity
Alumina (3N)
HPA 99.9%

\$6,000 per ton

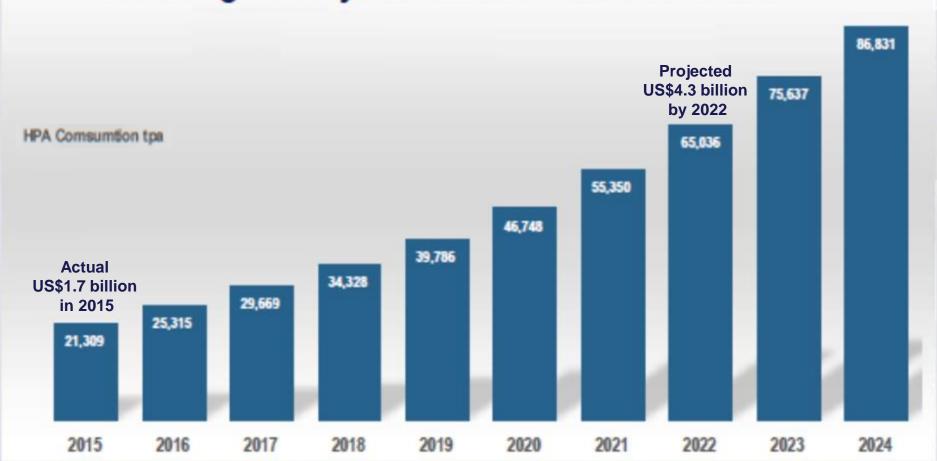
High Purity
Alumina (4N)
HPA 99.99%
\$25,000 per ton

High Purity
Alumina (5N)
HPA 99.999%

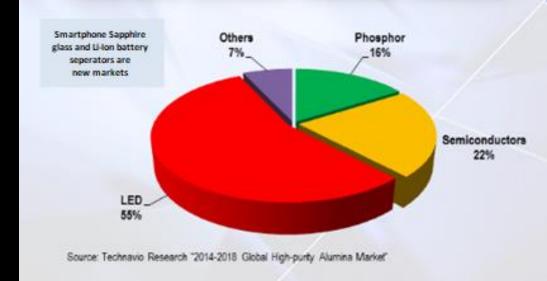
\$50,000 per ton

Total Addressable Market

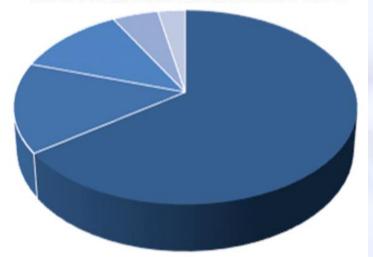




The Aluminum Oxide Market



HIGH PURITY ALUMINA MARKET 2018

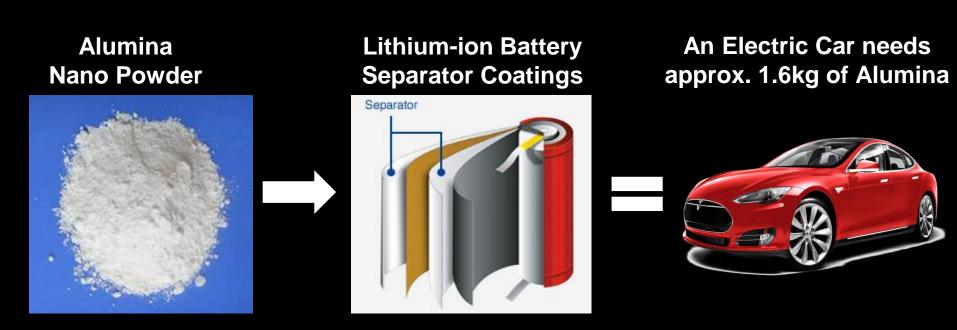


- Asia-Pacific
- North-America
- Europe
- MEA
- South America



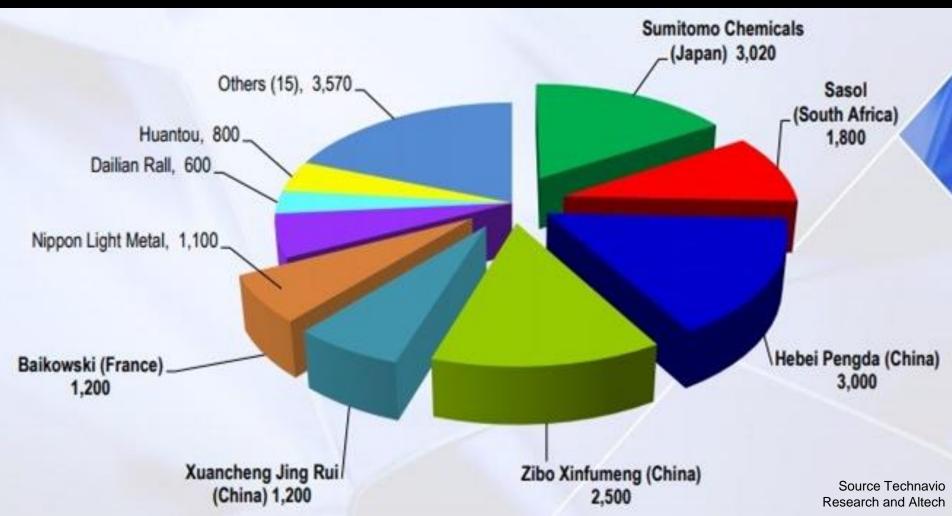
Go To Market with Lithium Ion Battery Separators

HPA coated battery separator membranes were commercialized in 2008 in response to demand for Li-Ion battery separators that could provide safer batteries with greater short protection and better structural integrity, at higher temperatures.



Nano sized particles of high purity alumina (HPA) significantly improves the mechanical strength, thermal stability and ionic conductivity of polymer separator membranes and hence the rapid rise in demand from this new market HPA worldwide.

Competition



The six largest High Purity Alumina producers and other competitors: China (3), Japan (1), South Africa (1), France (1)

Lowest Cost Competitor *

```
Sales Price = $ 25 / kg * 99.99% (N4)

Cost of Production = $ 10 / kg

Gross Margin = $ 15 / kg 60% Gross Margin

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* Nearest low cost competitor, Altech, is many times more expensive @ a cost per ton of \$9,070 with a \$270M capital investment.

Our Financials

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Sales Price = $ 20 / kg * 99.999% (N5)
Feedstock = $ 1 / kg
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Gross Margin = \$ 19 / kg 95% Gross Margin

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Phase 4 = \$960,000,000 Ship scale – 24,000 tons per year



Phase 3 = \$96,000,000 Full scale - 2,400 tons per year



Phase 2 = \$9,600,000 Factory scale – 240 tons per year



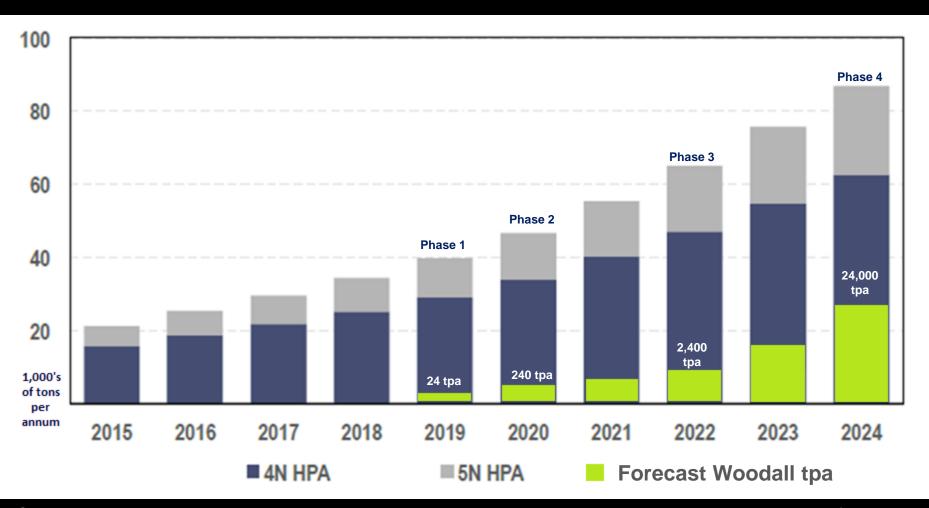
Phase 1 = \$960,000Pilot scale -24 tons per year







Combined N4 and N5 HPA market



Team









Shawn Headley – U.C. Davis Engineer and researcher from the Woodall laboratory

Peter Bell – 25 year entrepreneur, 3 start-ups including a biofuel venture with Willie Nelson and an angel investor in 23 start-ups, with 4 exits to date

Advisors

Dr. Jerry Woodall – National Medal of Technology Laureate, Inventor of commercial LED, Distinguished Professor at UC Davis, Holder of 85 US patents and author of 386 published journal articles.

Tim Keller – Founder of Inventopia.org and a U.C. Davis graduate

The Ask \$100,000

Use of Funds

Build Pilot Plant - \$35,000 Working Capital - \$65,000

Runway

\$100,000 provides sufficient runway to get the venture to an MVP, with first revenues in 2020 and the business financially self sustaining by the end of 2020.

Investor Exit Strategy

Return of investment capital through a 5% equity stake in a \$2 mil SAFE

Thank You!



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