

Global Lithium Market Outlook

Goldman Sachs HCID Conference

March 2016

 ALBEMARLE®

Forward-looking Statements

Some of the information presented in this presentation and the conference call and discussions that follow, including, without limitation, statements with respect to the transaction with Rockwood and the anticipated consequences and benefits of the transaction, product development, changes in productivity, market trends, price, expected growth and earnings, input costs, surcharges, tax rates, stock repurchases, dividends, cash flow generation, costs and cost synergies, portfolio diversification, economic trends, outlook and all other information relating to matters that are not historical facts may constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. There can be no assurance that actual results will not differ materially.

Factors that could cause actual results to differ materially include, without limitation: changes in economic and business conditions; changes in financial and operating performance of our major customers and industries and markets served by us; the timing of orders received from customers; the gain or loss of significant customers; competition from other manufacturers; changes in the demand for our products; limitations or prohibitions on the manufacture and sale of our products; availability of raw materials; changes in the cost of raw materials and energy; changes in our markets in general; fluctuations in foreign currencies; changes in laws and government regulation impacting our operations or our products; the occurrence of regulatory proceedings, claims or litigation; the occurrence of cyber security breaches, terrorist attacks, industrial accidents, natural disasters, or climate change; the inability to maintain current levels of product or premises liability insurance or the denial of such coverage; political unrest affecting the global economy; political instability affecting our manufacturing operations or joint ventures; changes in accounting standards; the inability to achieve results from our global manufacturing cost reduction initiatives as well as our ongoing continuous improvement and rationalization programs; changes in the jurisdictional mix of our earnings and changes in tax laws and rates; changes in monetary policies, inflation or interest rates; volatility and substantial uncertainties in the debt and equity markets; technology or intellectual property infringement; decisions we may make in the future; the ability to successfully execute, operate and integrate acquisitions and divestitures, including the integration of Rockwood's operations and realize estimated synergies; and the other factors detailed from time to time in the reports we file with the SEC, including those described under "Risk Factors" in the joint proxy statement / prospectus we filed in connection with the transaction with Rockwood, and in our Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q. These forward-looking statements speak only as of the date of this presentation. We assume no obligation to provide any revisions to any forward-looking statements should circumstances change, except as otherwise required by securities and other applicable laws.

Non-GAAP Financial Measures

It should be noted that adjusted net income attributable to Albemarle Corporation (“adjusted earnings”), adjusted diluted earnings per share, adjusted effective income tax rates, segment operating profit, segment income, EBITDA, adjusted EBITDA, adjusted EBITDA by operating segment, EBITDA margin and adjusted EBITDA margin are financial measures that are not required by, or presented in accordance with, accounting principles generally accepted in the United States, or GAAP. These measures are presented here to provide additional useful measurements to review our operations, provide transparency to investors and enable period-to-period comparability of financial performance.

A description of these and other non-GAAP financial measures that we use to evaluate our operations and financial performance, and reconciliation of these non-GAAP financial measures to the most directly comparable financial measures calculated and reported in accordance with GAAP, can be found in the Appendix to this presentation, which is posted in the Investors section of our website at www.albemarle.com, under “Non-GAAP Reconciliations” under “Financials.”

Mega-Trends Driving Lithium Growth

Communication & Mobility

- Miniaturization of electronic devices
- Extended range of electronic devices
- High-power electronic devices
- Exponential growth of transportation

Energy & Natural Resources

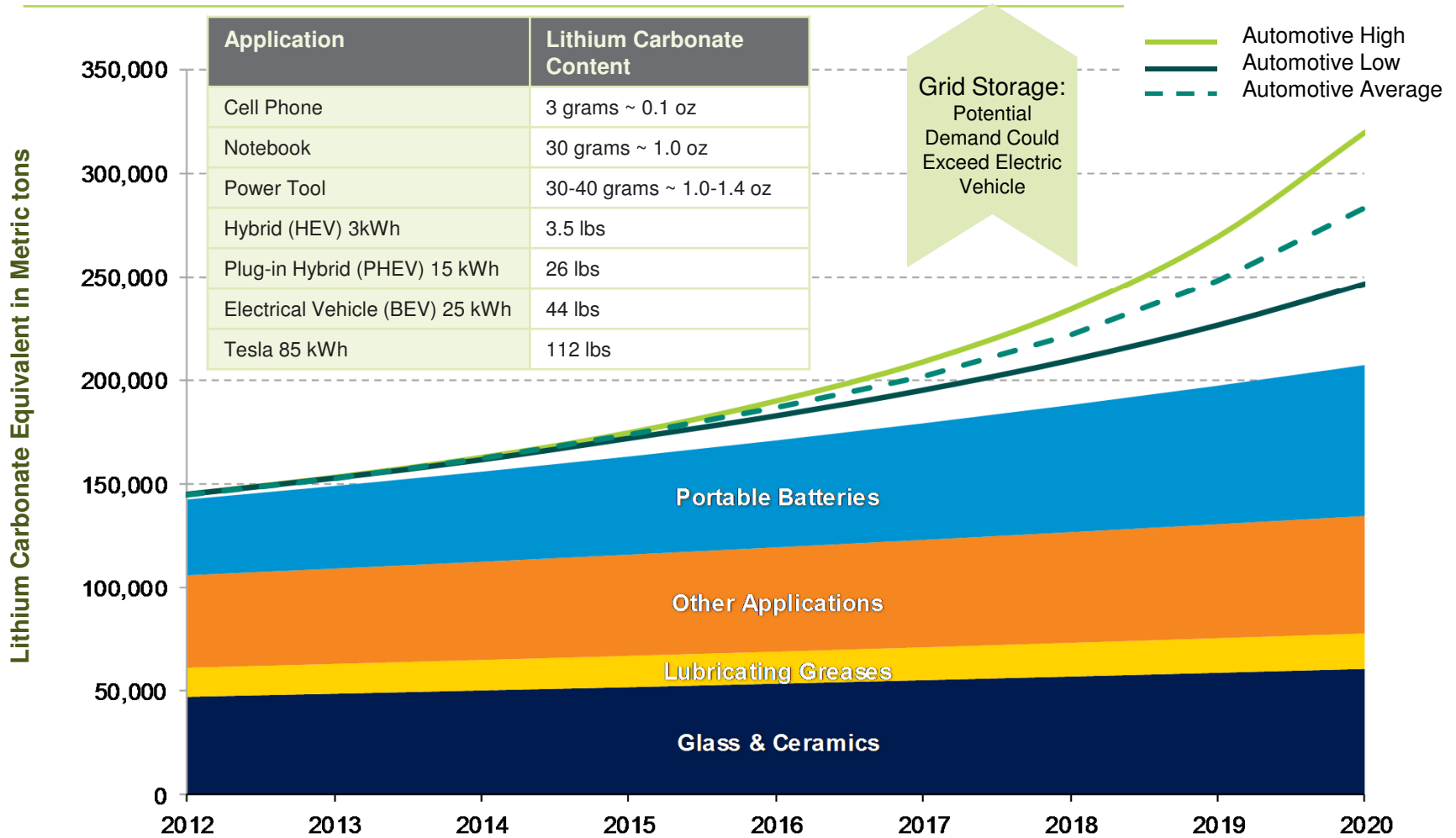
- Renewable energy concepts
- Smart grid & energy storage
- Less energy and water
- Fewer chemicals & simpler processes

Safety & Health

- New active pharmaceutical ingredients
- New agro ingredients & resistance
- Reduction of greenhouse gas

Lithium creates sustainable future technologies

Lithium: Potential Lithium Demand Delivers Significant Upside










Source: Rockwood Lithium estimates and market surveys from BCG, Bloomberg, Avicenne, Roland Berger, Pike Research, Fraunhofer IST, Deutsche Bank Research, McKinsey, CTI, Anderman, JD Powers

Albemarle expects to capture 50% of Lithium growth



Energy Related Applications Driving Market Growth

Application		2014 Market Size	Growth Rate	Products
Traditional Uses	 Glass/Ceramics	46KT	GDP	<ul style="list-style-type: none"> • Spodumene • Li_2CO_3
	 Greases / Lubricants	18KT	GDP	<ul style="list-style-type: none"> • LiOH
	 Chemical Synthesis	11KT	GDP	<ul style="list-style-type: none"> • Li Organometallics fed by Li Metal LiCl
Energy	 Portable Electronics & Other Handhelds	48KT	16% (Base Case)	<ul style="list-style-type: none"> • BG Li_2CO_3 • BG LiOH • BG Li Metal • BG Electrolyte Salts • BG LiCl • BG Alloys • BG Specialty Compounds
	 Hybrids			
	 Battery Electric Vehicle (BEV)			
	 Grid and Other Power Storage Applications			

Source: Internal

Total Global LCE Market: 160kT (2014)

Energy Storage Applications – Market Dynamics & Growth Potential

Mass Uptake in Battery Markets

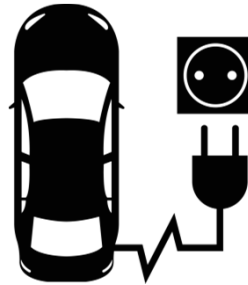
Previously, there was one major industry investing in batteries....



Consumer Electronics

8 - 10% CAGR

Replicating Success



Transportation

20 - 30% CAGR



Energy Storage

>30% CAGR



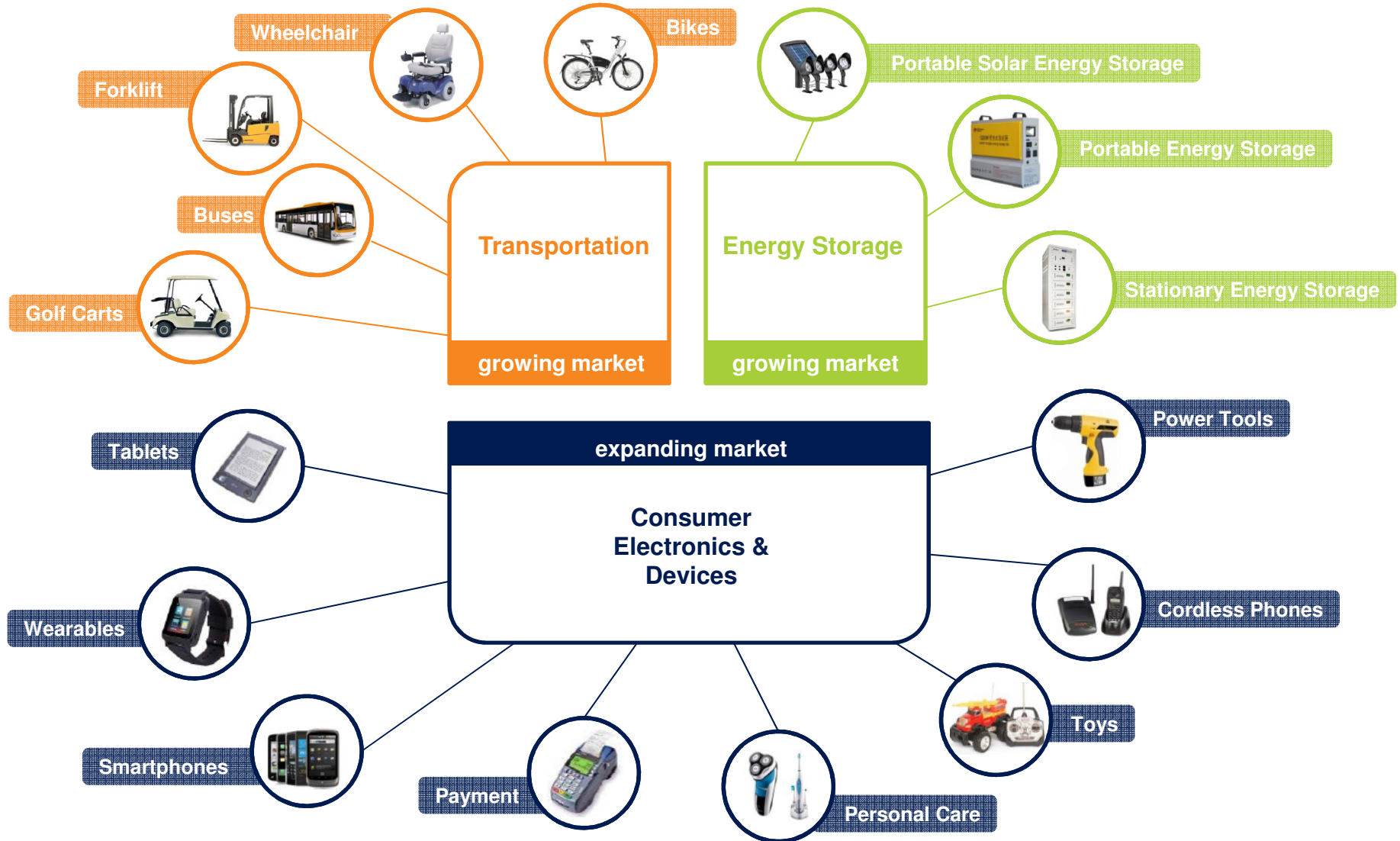
Consumer Devices

>15% CAGR

Source for projected CAGRs: Signumbox, 2015

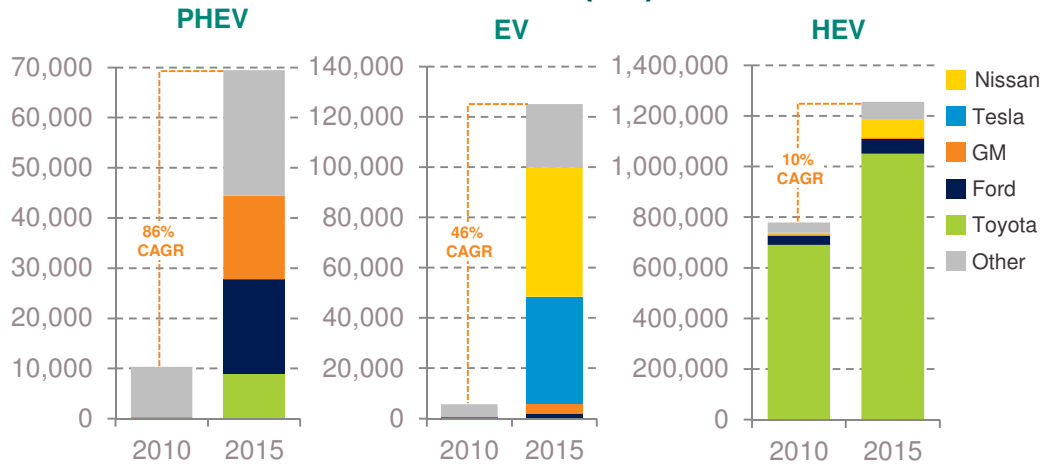
“We are at a dawn of a new era with ‘unprecedented technological & regulatory change’ set to come in the next 5 years...” *(Deutsche Bank, Dec 2014)*

Li-Ion Battery Market Has Yet to Reach Maturity and Continues to Find New Applications



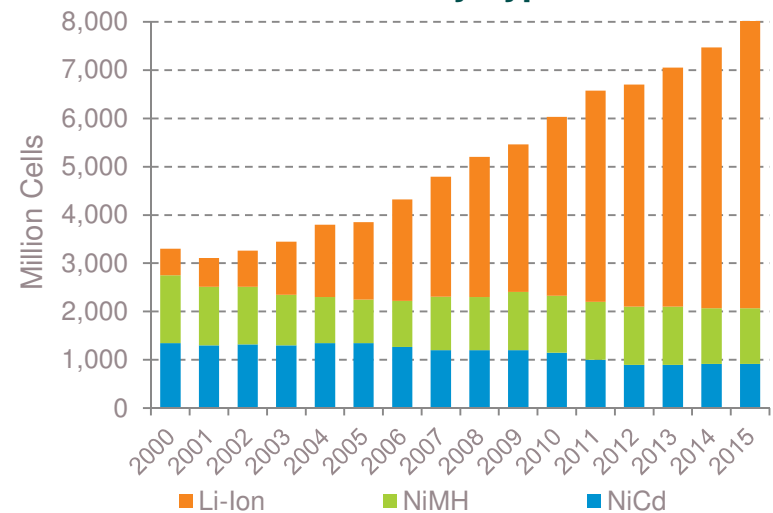
Transportation Contributing to Li-Ion Battery Growth

Electric Vehicle Sales (US) – All OEMs



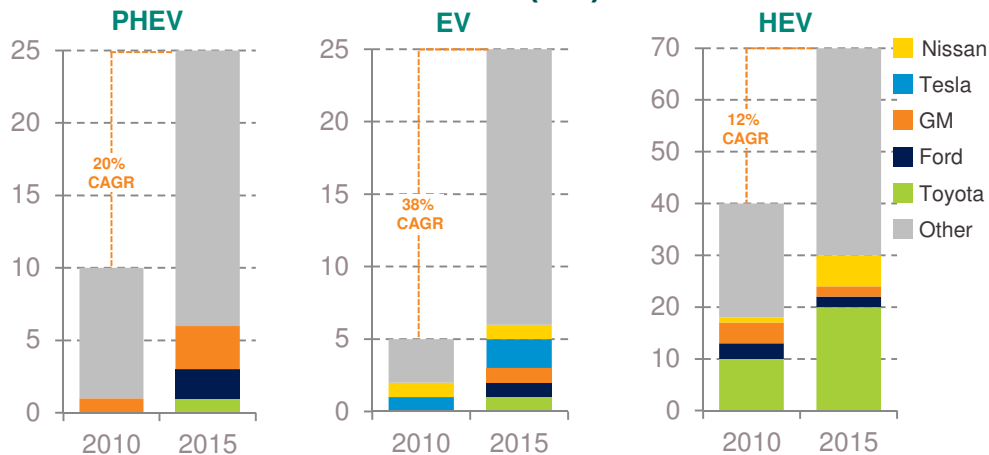
Sources: Lux Research & US DOE Alternative Fuels Data Center, Accessed 3Q, 2015

Battery Type



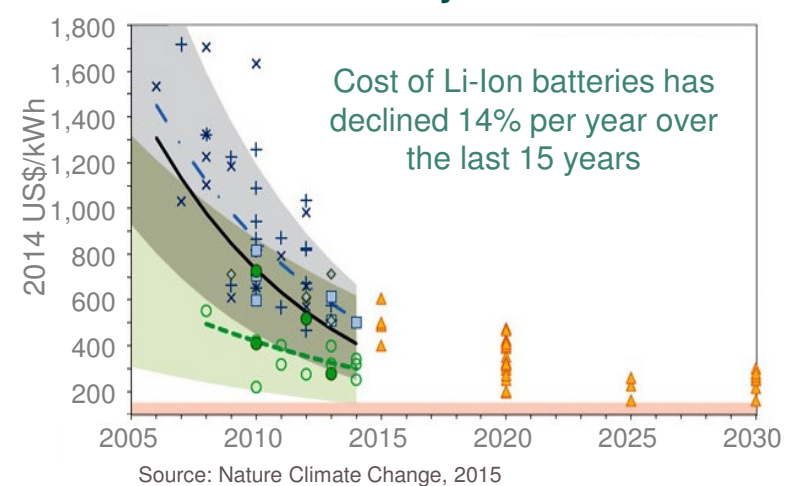
Source: Christophe Pillot, Avicenne Report 2015

New Model Launches (US) – All OEMs

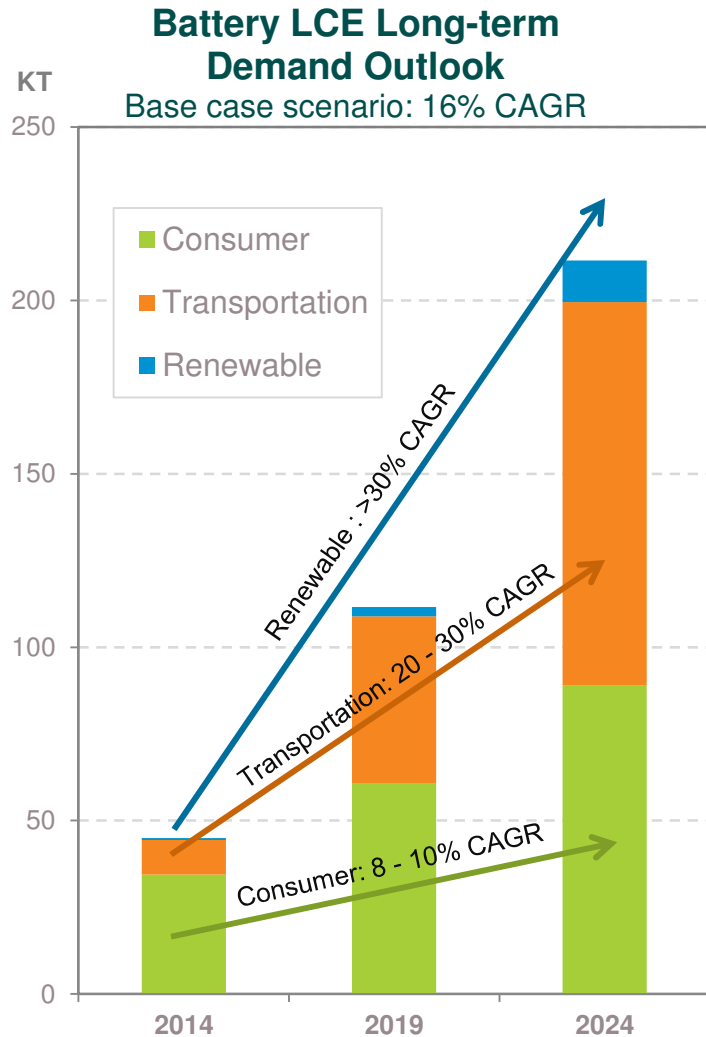


Sources: Lux Research & US DOE Alternative Fuels Data Center, Accessed 3Q, 2015

Battery Costs



Transportation / Battery Demand is Potential Game Changer



Transportation (PHEV/HEV/EV/2-wheelers)

- Fast-growing market for hybrids and electric vehicles driven by regulations/targets on CO₂ emissions, falling battery costs, improved driving range and expanding charging infrastructure, desire for an enhanced driving experience
- Auto penetration: 1 - 2%, base case scenario

Renewable (Grid storage)

- Driven by growth in renewable energy and need for resources to provide system flexibility and balance supply/demand
- Global installed base of ~1.1 GW (Jan. 2015), projected annual installations reaching up to >15 GW by 2025

Consumer Electronics & Devices

- Slowing demand for laptops and conventional mobile phones are offset by robust demand growth for smart phones, tablets and wearables, driven by trend towards higher-capacity batteries

Source: SAI lithium assessment for Albemarle (2015), sector reports, SAI analysis and estimates

Renewable Energy Storage Contributing to Li-Ion Battery Growth

Over the next 15 years, **~\$1.4 trillion** of future US infrastructure **will be underutilized without storage**

Renewable Energy Growth (2013 – 2020)

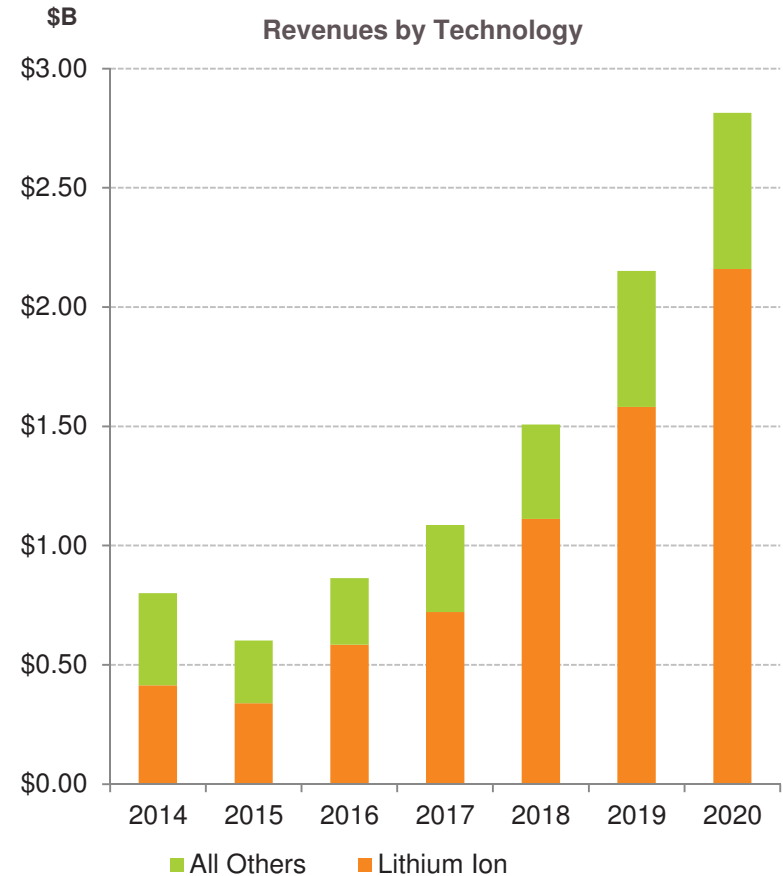


Wind: ~10% CAGR



Solar: ~17% CAGR

Stationary Energy Storage



Source; Lux Research; June 2014

Energy storage unlocks value in existing assets by increasing low rates of utilization

Albemarle's Global Position in Lithium Supply

Leadership in Lithium due to Albemarle's Unique Position



Leading Natural Resources



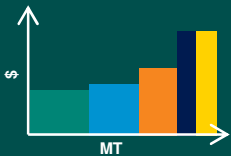
Extensive Derivative Capability



Process Innovation Expertise



Strength of Supply Chain Reliability



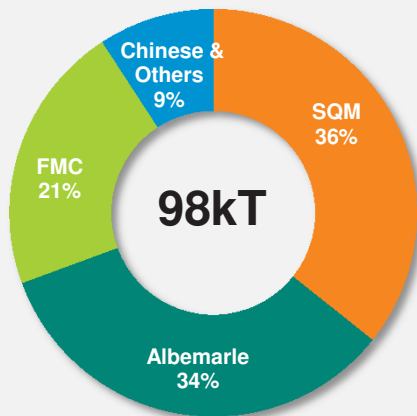
Low Cost Position

Leader in High Quality Diversified Natural Resources

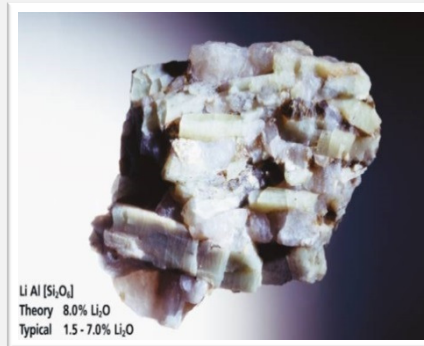
Brine



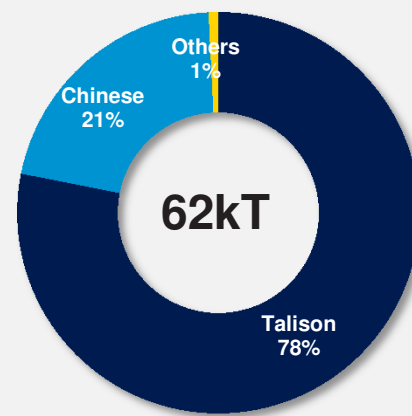
2014 Brine LCE Production Share



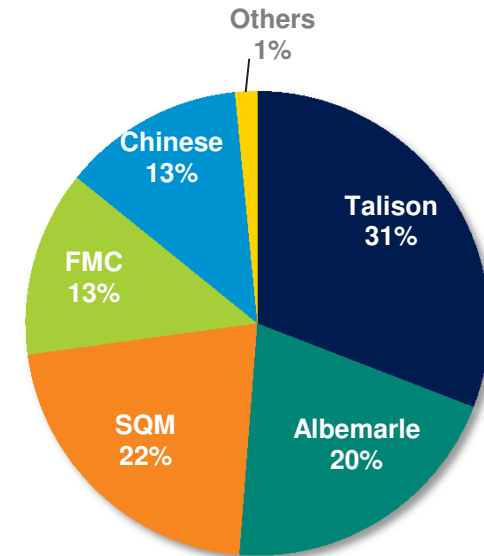
Hard Rock Minerals



2014 Spodumene LCE Production Share



LCE Mined in 2014
160,000 MT



Albemarle **>35%** Total LCE's Mined

Source: SAI Report 2015, Internal Estimates

Two World-class Lithium Brine Resources Operated by Albemarle



Salar de Atacama, Chile

- Largest active lithium brine resource globally
- Highest LiCl concentration
- Highest evaporation rates
- Favorable brine chemistry



Silver Peak, Nevada, U.S.A.

- First operational brine resource globally
- Only U.S. operational lithium brine source
- Favorable brine chemistry
- Established Infrastructure

Two World-class Lithium Brine Resources in Development



Magnolia, Arkansas U.S.A.

- Unique to only Albemarle
- By-product brine from bromine operation
- Ability to leverage infrastructure
- No mining cost
- By-product enhancements given bromine derivations



Salares 7, Atacama Chile

- Early stage exploration project
- Part of Talison joint venture
- Positive results for lithium and potassium

Two World-class Hardrock Resources Globally Owned by Albemarle



Greenbushes, Australia

- Large reserve – 50 year mine life
- Scale advantage – largest active
- Best ore quality globally: 2.8 – 3.3% Li_2O
- Low iron content for TG market
- CG grain size and quality is superior



Kings Mountain, NC, U.S.A.

- Large reserve 380 kT LCE
- Second best ore quality globally: 1.8 - 2.0% Li_2O
- Inactive mine since mid 1980's

Albemarle's Brine Resources are Geographically Well-positioned (Chile & USA)

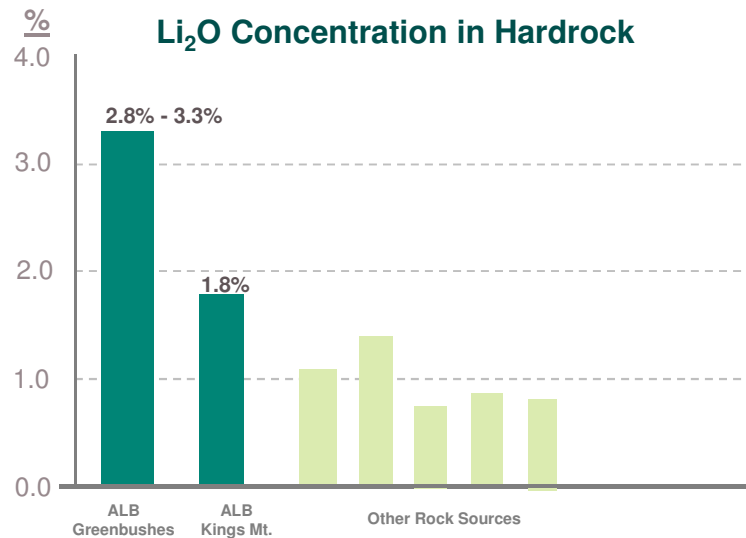
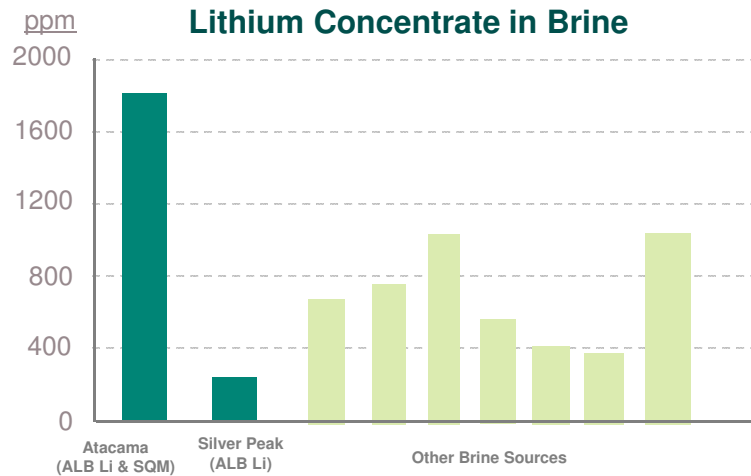


Source: USGS, Roskill, Internal

Albemarle's Hardrock Mining Resources are Geographically Well-positioned (Australia & USA)

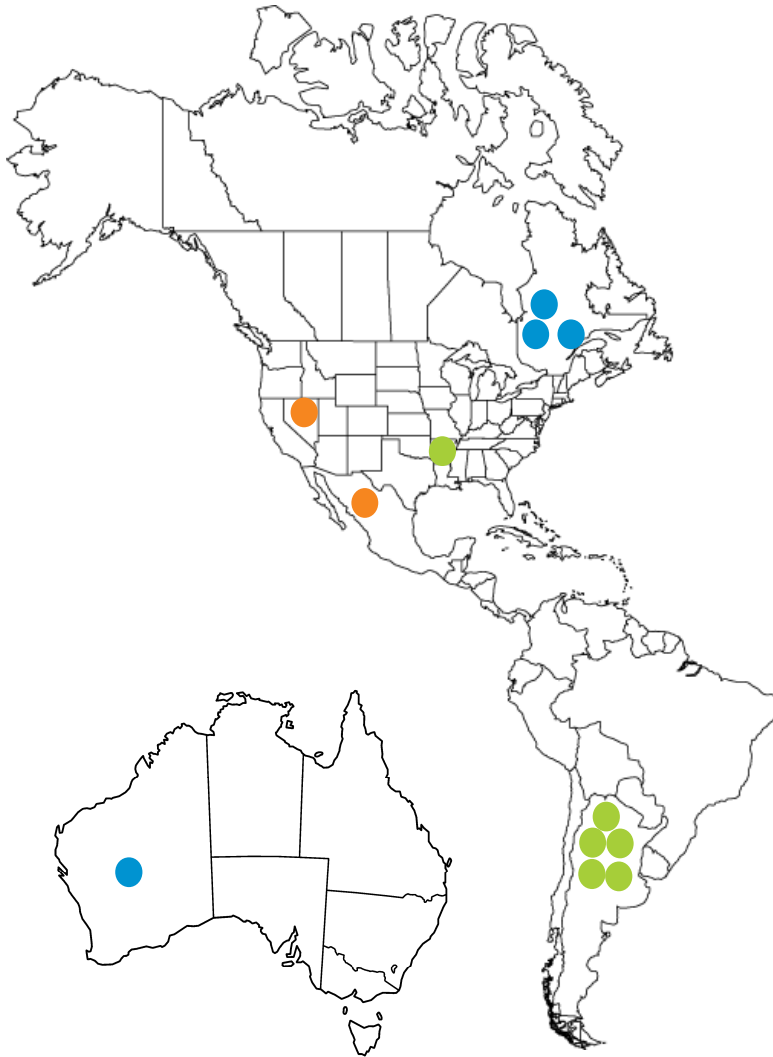


Albemarle Resources – High Concentration and Much More



- Chemical composition
- Hydrogeology
- Climate
- Infrastructure
- Utility requirements
- Environmental
- Social responsibility
- Mine scale
- Reserve size

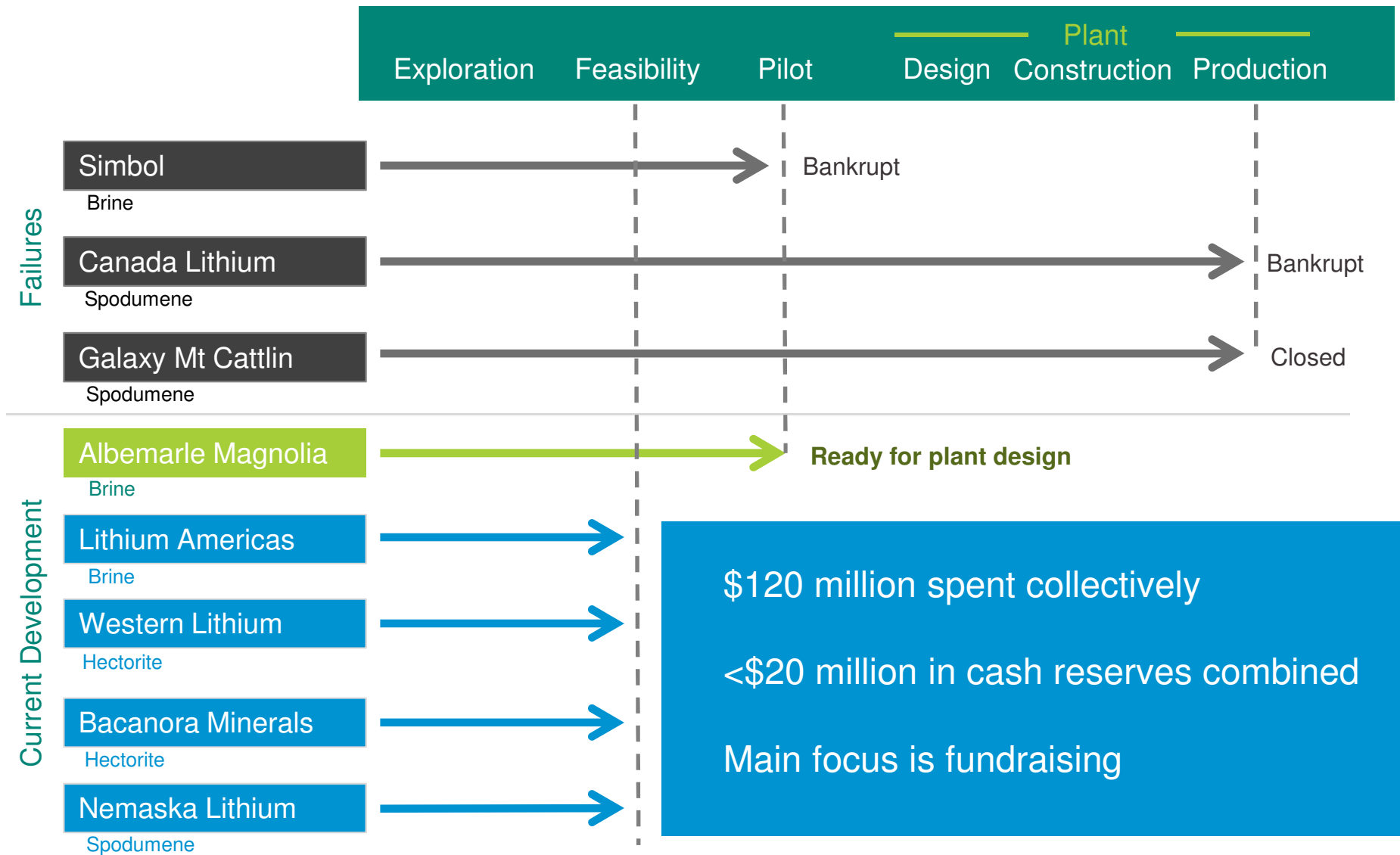
Lithium Resource Projects in Development



Source: Company reports and press releases

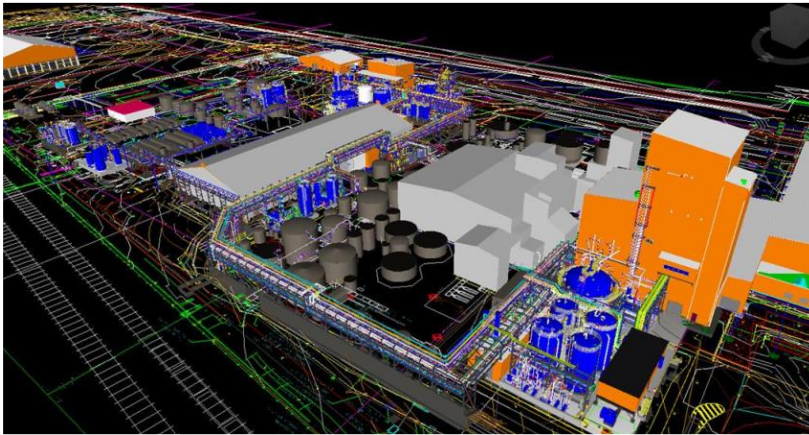
Company	Project status	
Albemarle	Pilot Plant	BRINE
Orocobre (started 2007)	Li ₂ CO ₃ Market Production 2015-2016	
Lithium Americas	Pilot plant	
Galaxy Resources	Feasibility	
ADY Resources	Feasibility	
Rodinia	Feasibility	
Critical Elements Corporation	Exploration	ROCK
RB Energy	Li ₂ CO ₃ Shut-down Receivership	
Nemaska	Post Feasibility	
Neometals (Reed Resources)	Pilot	
Western Lithium	Demo plant	CLAY
Bacanora Minerals	Feasibility	

Lithium Resource Development is Not Easy and Takes Time



Strategic Investments to Meet Market Demand

Battery Grade Li_2CO_3 Plant



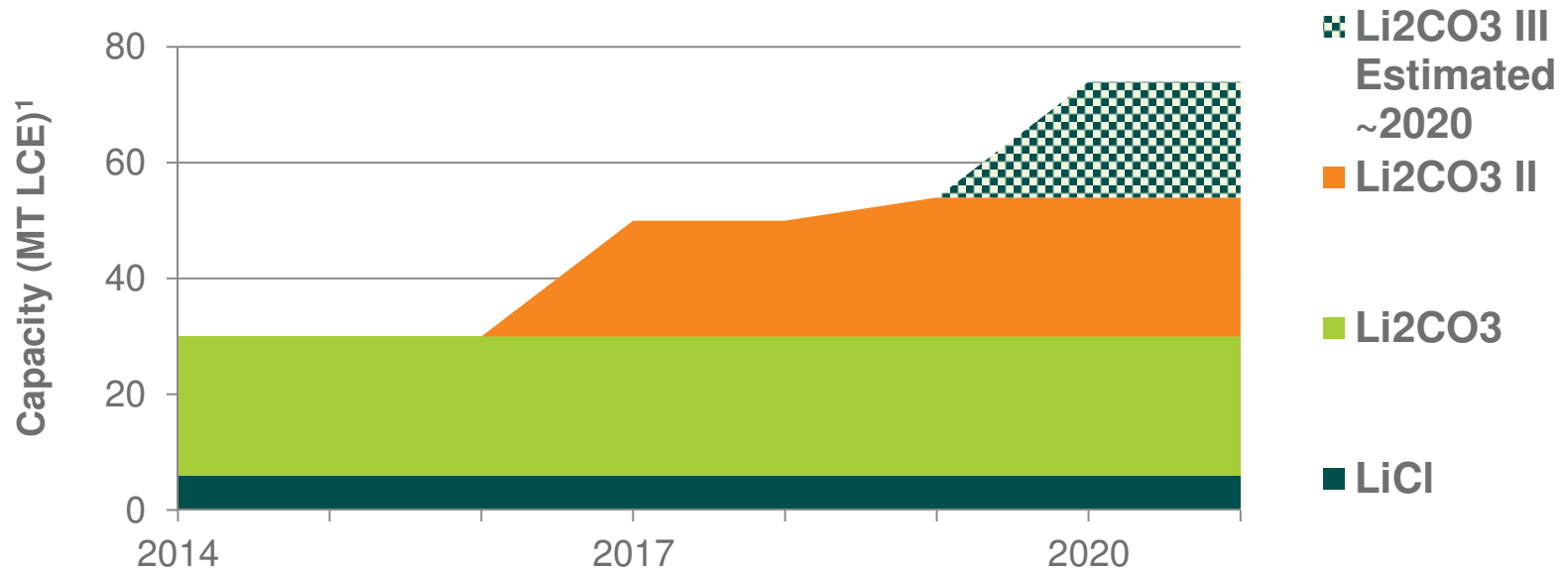
- Located in La Negra, Chile
- 20kT battery grade lithium carbonate
- Produces lowest-cost, highest-quality battery grade material in the industry
- Start-up phase

Planned Battery Grade Li Derivative Plant



- Will be the most technologically advanced mineral conversion plant ever built
- Up to 50kT battery grade lithium derivatives – Li_2CO_3 and LiOH
- Fed from the highest quality Spodumene resource in the world
- Expected startup: 2020

Lithium: Albemarle Derivative Capacity in Chile



- Increasing access to best lithium resources globally
- New Brine Permit
 - Granted new increased brine pumping permit in Chile that allows for production of over 70,000 metric tons of lithium carbonate annually
 - The impact of this new pumping rate will begin to be reflected in our sales during 2017
- Signed MOU with Chilean government to establish a new lithium quota
 - Increases and extends expected life of our secured reserves in Chile to 27 years at an annual rate of about 70,000 MT LCE
 - Continued investment to be timed to match market demand
 - New commission/fee schedule does not impact the remaining 110,000 MT LCE under the current quota.

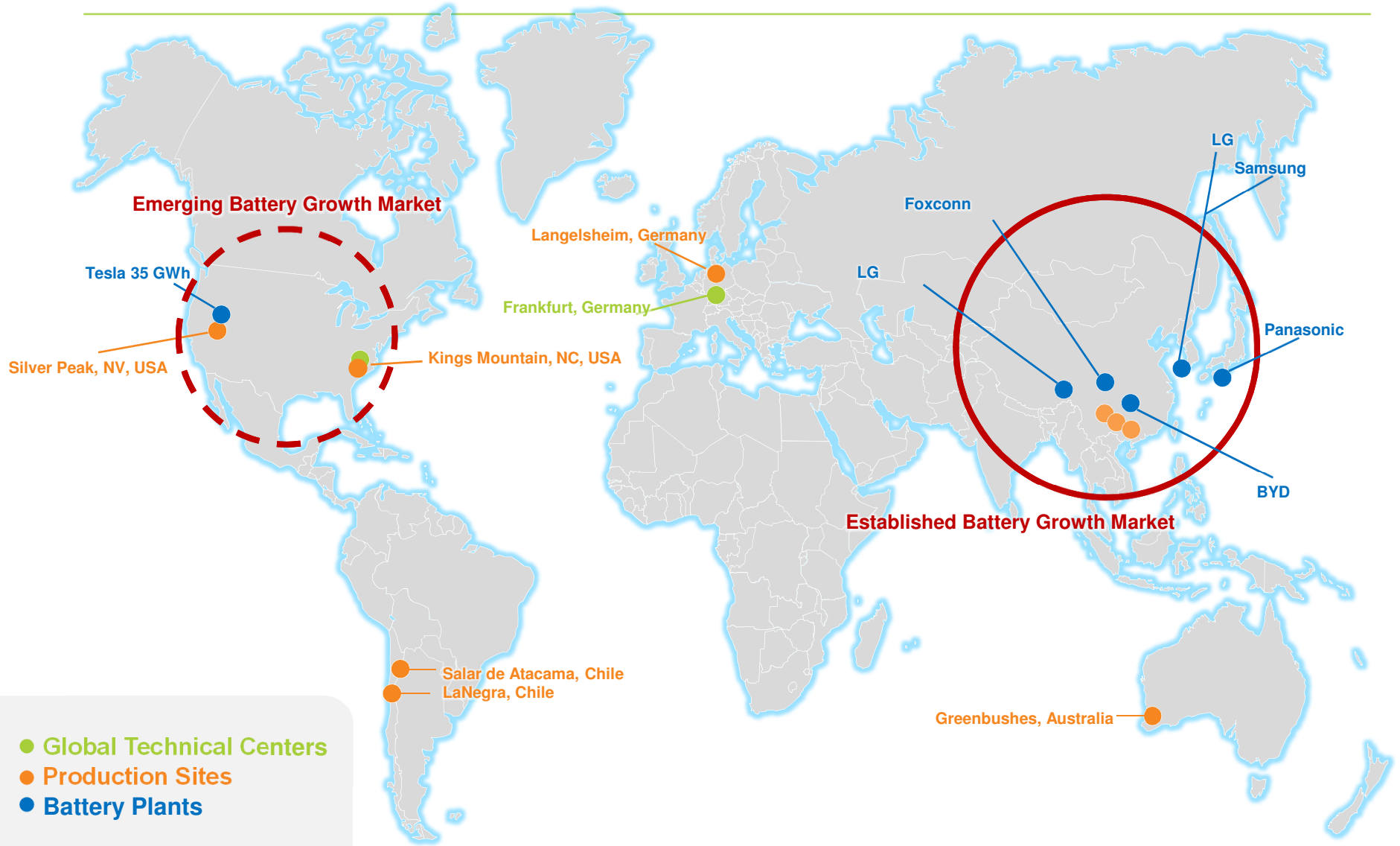
¹Reflects planned plant capacity only. Timing is estimated and subject to change. Not pictured is estimated 3 year ramp-up for plants to reach full utilization after coming on-line.

Unmatched Vertical Integration from Natural Resource to Lithium Specialty

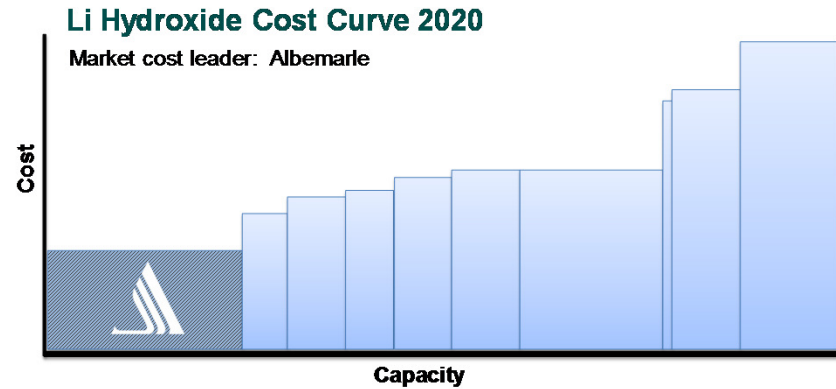
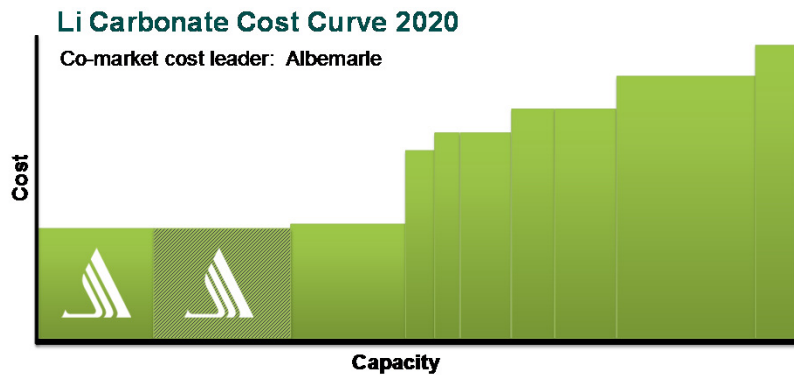
	Albemarle	SQM	FMC	Tianqi	Ganfeng
Operating Brine Resource	●	●	●	○	○
Operating Hardrock Resource	●	○	○	●	○
Spodumene TG	●	○	○	●	○
Lithium Carbonate TG/BG	●	●	●	●	●
Lithium Hydroxide TG	●	●	●	○	●
Lithium Hydroxide BG	●	○	●	◐	●
Lithium Chloride	●	○	●	◐	●
Li Metal Bulk	●	○	●	○	●
Li Metal Battery Products	●	○	●	○	○
Butyllithium	●	○	●	○	●
Specialty Organics	●	○	◐	○	◐
Specialty Lithium Salts	●	○	◐	○	○

Source: Internal

Global Supply Chain Strength For Battery Markets



Cost Advantage Continues to be Extended



Why?



- Best lithium resources globally
- Superior derivative process technology
- Scale & supply chain advantage

Leadership in Lithium due to Albemarle's Unique Position



Leading Natural Resources

- Diverse, large and high quality natural resources
- Geographically situated in low-risk environments with good infrastructure
- Large scale for excellent economics



Extensive Derivative Capability

- Broad value-added derivative portfolio
- Strongest vertical position from resource to specialty
- Ability to innovate with customers for next-generation lithium materials



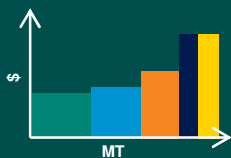
Process Innovation

- Deep and broad process technology expertise
- Scale of expertise has grown with merger adding to continues improvement
- Strong experience in successfully commercializing new projects



Strength of Supply Chain Reliability

- Unmatched global footprint and ability to serve growth markets
- 100 years of lithium manufacturing experience



A Low Cost Position

- While providing the highest quality products
- With the lithium industry's most reliable and sustainable supply network

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www.albemarle.com