

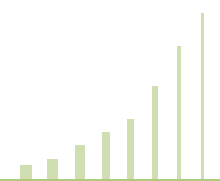
Vision 2015

2011 Investor Day
New York, NY

May 3, 2011



Forward Looking Statements



Portions of this presentation constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Although Albemarle Corporation believes its expectations reflected in the presentation are based on reasonable assumptions within the bounds of its knowledge of its business and operations, there can be no assurance that actual results will not differ materially.

Factors that could cause actual results to differ from expectations include, without limitation, the inability to pass through increases in costs and expenses for raw materials and energy; competition from other manufacturers; changes in demand for our products; the gain or loss of significant customers; fluctuations in foreign currencies and increased government regulation of our operations or our products.

Additional factors that could cause Albemarle's results to differ materially from those described in the forward-looking statements can be found under "Risk Factors" in Item 1A of our Annual Report on form 10-K for the year ended December 31, 2010.

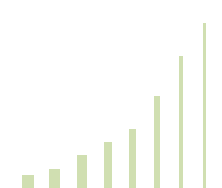


Vision 2015

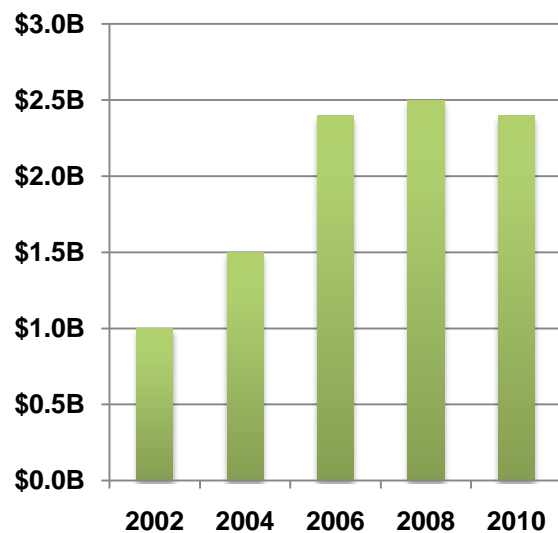
Mark Rohr,
Chairman and
Chief Executive Officer



A Decade of Strong Growth...

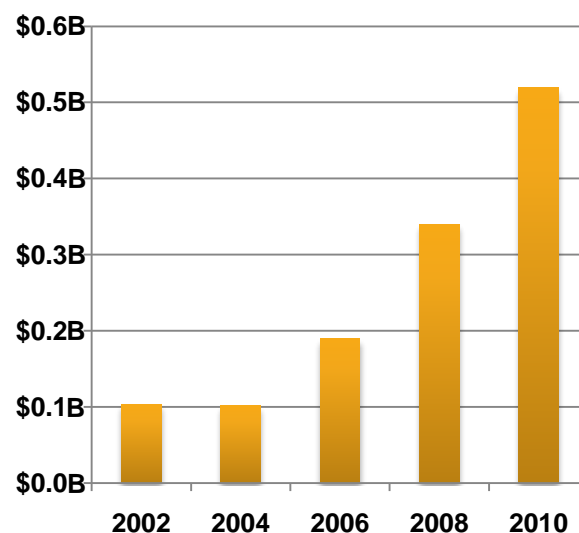


Revenue



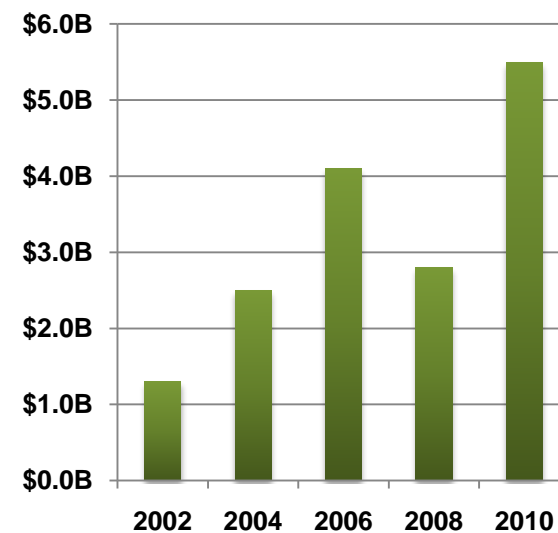
CAGR = 10%

Segment Income



CAGR = 12%

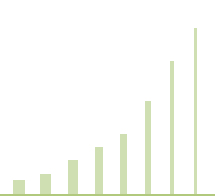
Enterprise Value



CAGR = 16%



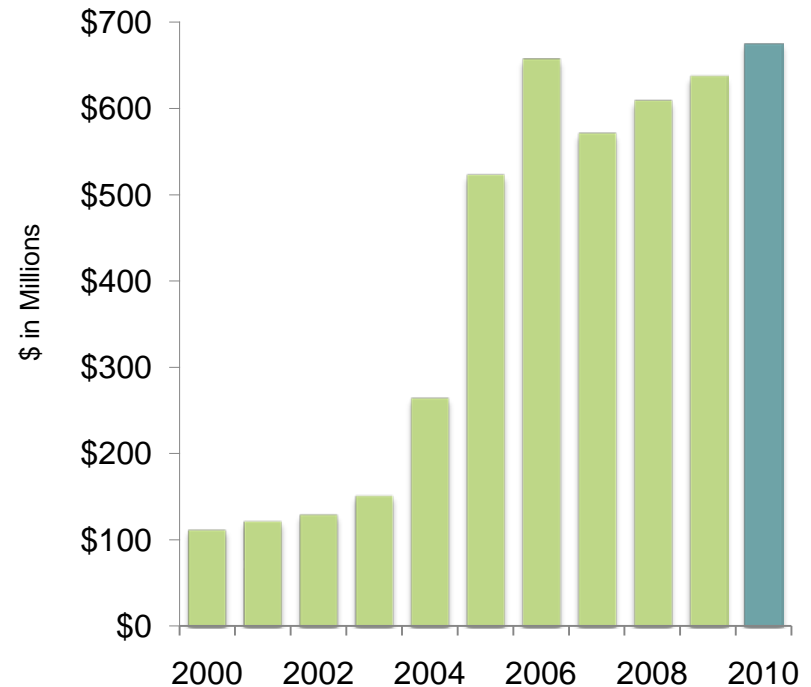
Albemarle's Success is Tied to Innovation



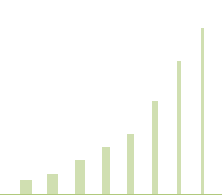
New Product Sales

“Research and process development expertise allow us to bring innovative technologies to the market more quickly and at a lower capital cost than our competitors”

“ Innovative products enhance customer value and expand margins”



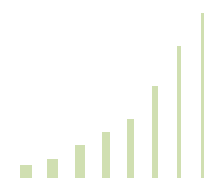
We Leverage Innovative Capabilities by...



1. Building a clear understanding of customer needs and value drivers.
2. Working with local market leaders in emerging economies.
3. Gaining technology and/or market access with select acquisition and ventures.
4. Maintaining value-added pricing initiatives across product portfolios.
5. Driving production and transaction efficiencies around the globe.



It All Boils Down to ...



Technology

- Strong base chemistry
- Technological know-how
- Solving global challenges
- Development and commercialization speed



People

- Culture shaped by strong core values
- Great people, bright ideas
- Global agility
- Understanding of social responsibility

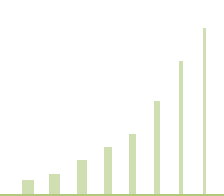


Market Position

- Trend-setting technology
- Market leadership
- Financial strength
- Expanding global reach



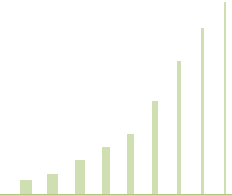
We Expect to Stay on Pace Through 2015...



Revenue	\$4.8 - \$5.6B	16% CAGR	\$5B in annual sales
EBIT	\$1.0B +	14% CAGR	Expanding value
EPS	\$8.40 - \$9.75	20% CAGR	Double earnings

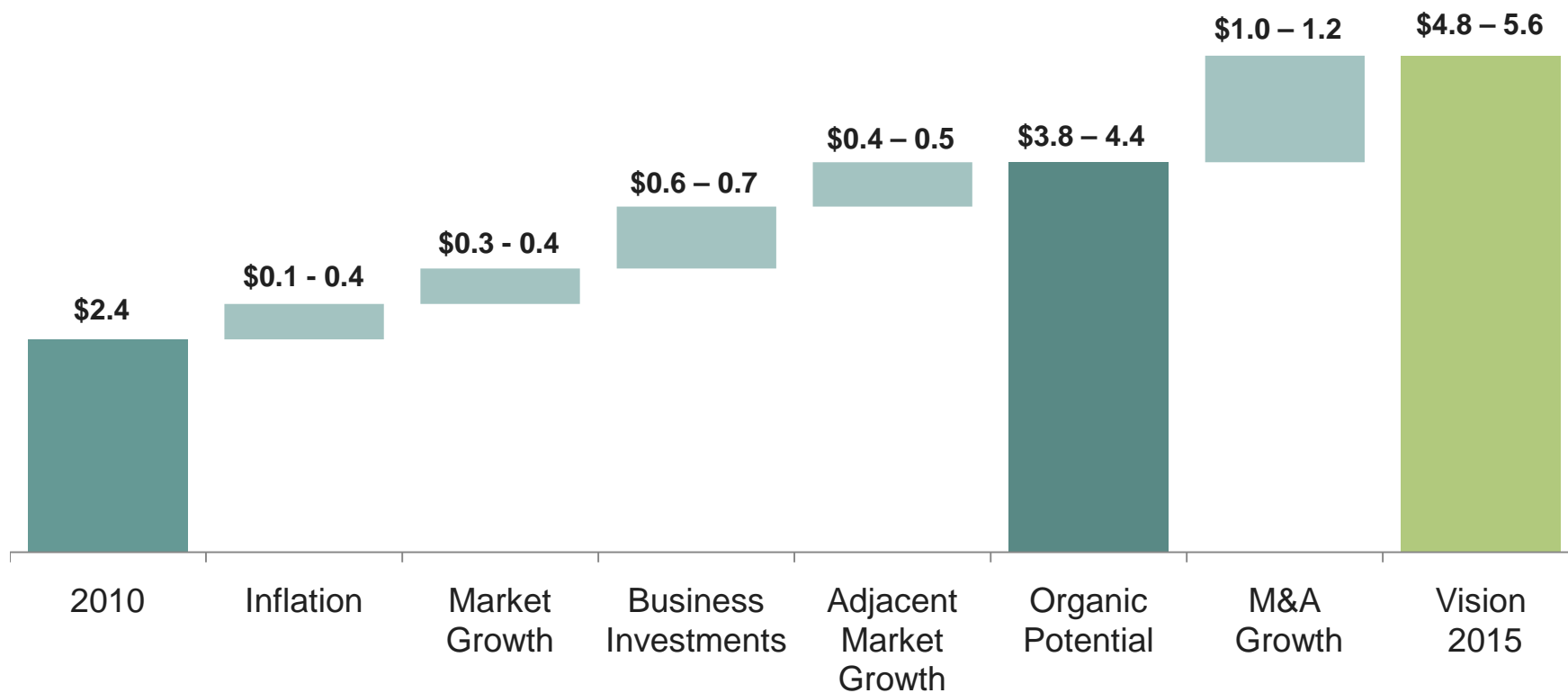


How This Will Happen...

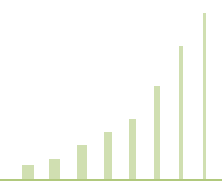


Revenue: 2010 – 2015

(\$ in billions)



What You Will Hear From Us Today



8:00 a.m. **Introduction/Vision 2015**
Mark Rohr, Chairman & CEO

8:15 a.m. **Vision 2015: A Strategy for Growth**
Luke Kissam, President

8:45 a.m. **Ambition, Execution, Value & Growth**
John Steitz, EVP & COO

9:15 a.m. **Financial Overview and M&A**
Scott Tozier, SVP & CFO

9:45 a.m. **Q&A**
Mark Rohr, Chairman & CEO

10:30 a.m. **Bromine: Albemarle's Element**
Tony Parnell, VP Polymer Solutions

11:00 a.m. **Organometallics: Albemarle's Foundation Chemistry**
Amy Motto, Division VP PO Catalysts

11:30 a.m. **Step-Out Technologies**
Dave Clary, VP & CSO

12:00 p.m. **Q&A and Closing Remarks**
Mark Rohr, Chairman & CEO

12:30 p.m. **Join Executive Team for Lunch**

Break from 10:00 – 10:30



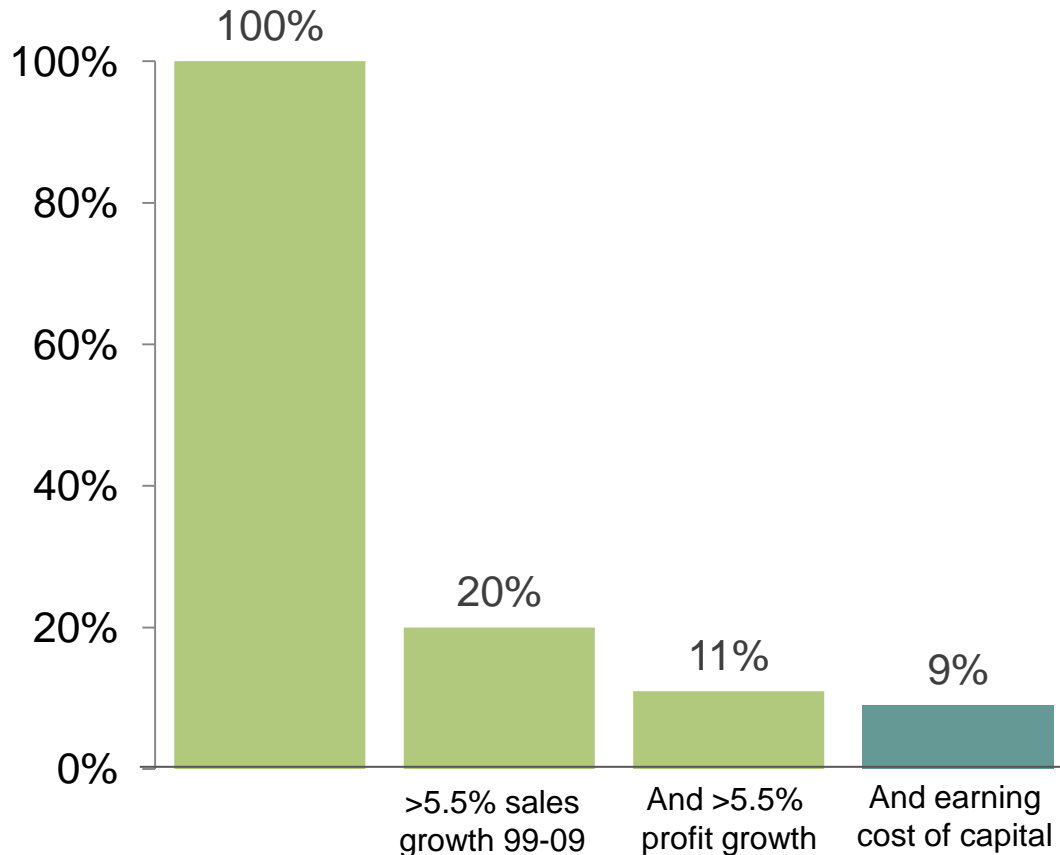
VISION 2015: A Strategy for Growth

Luke Kissam,
President

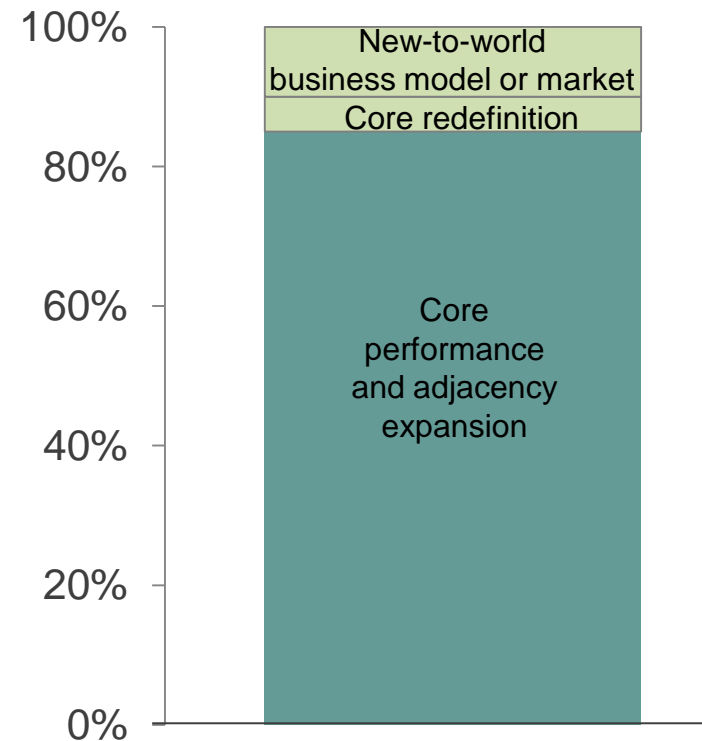


Companies That Grow Profitably Do So by Building Upon Core Strengths

Growth performance 1999-2009
Percentage of companies



A majority of the 9% grew by strengthening and expanding their core

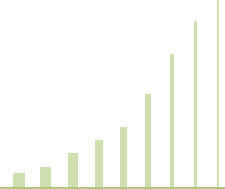


Note: Earning cost of capital defined as above average total shareholder return. 5.5% required growth rate is CAGR in *real terms* (i.e. after correction for inflation). Analysis of 2,000+ companies in 12 developed and emerging economies

Source: Bain Research and Worldscope Database, Profit from the Core survey of over 2000 companies



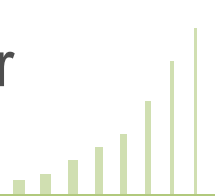
Albemarle's Goal is to Stay on Pace to Double Our Business by 2015



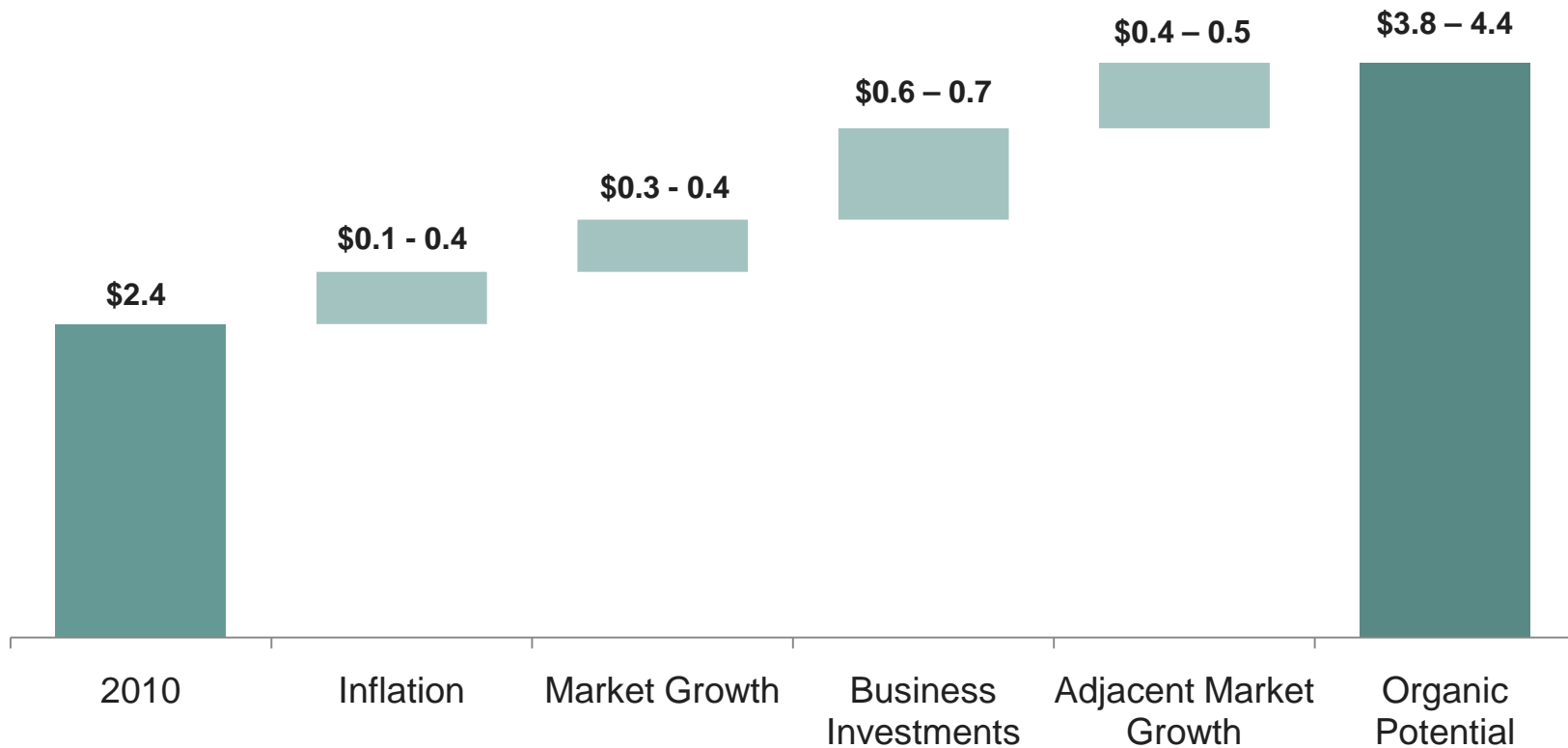
Revenue	\$4.8 - \$5.6B	16% CAGR	\$5B in annual sales
EBIT	\$1.0B +	14% CAGR	Expanding value
EPS	\$8.40 - \$9.75	20% CAGR	Double earnings



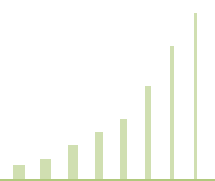
We Will Strengthen and Expand Within and Beyond Our Current Businesses



Revenue: 2010 – 2015
(\$ in billions)



The Majority of the Markets we Serve Should Grow With or Exceed GDP Growth



GDP-% Growth *	2008	2009	2010	2011E	2012E	2013E	2014E	2015E
World	2.83	-0.56	4.77	4.22	4.54	4.59	4.62	4.62
Advanced Economies	0.24	-3.23	2.71	2.17	2.64	2.59	2.51	2.41
Emerging & Developing Economies	6.01	2.51	7.07	6.44	6.52	6.58	6.65	6.66

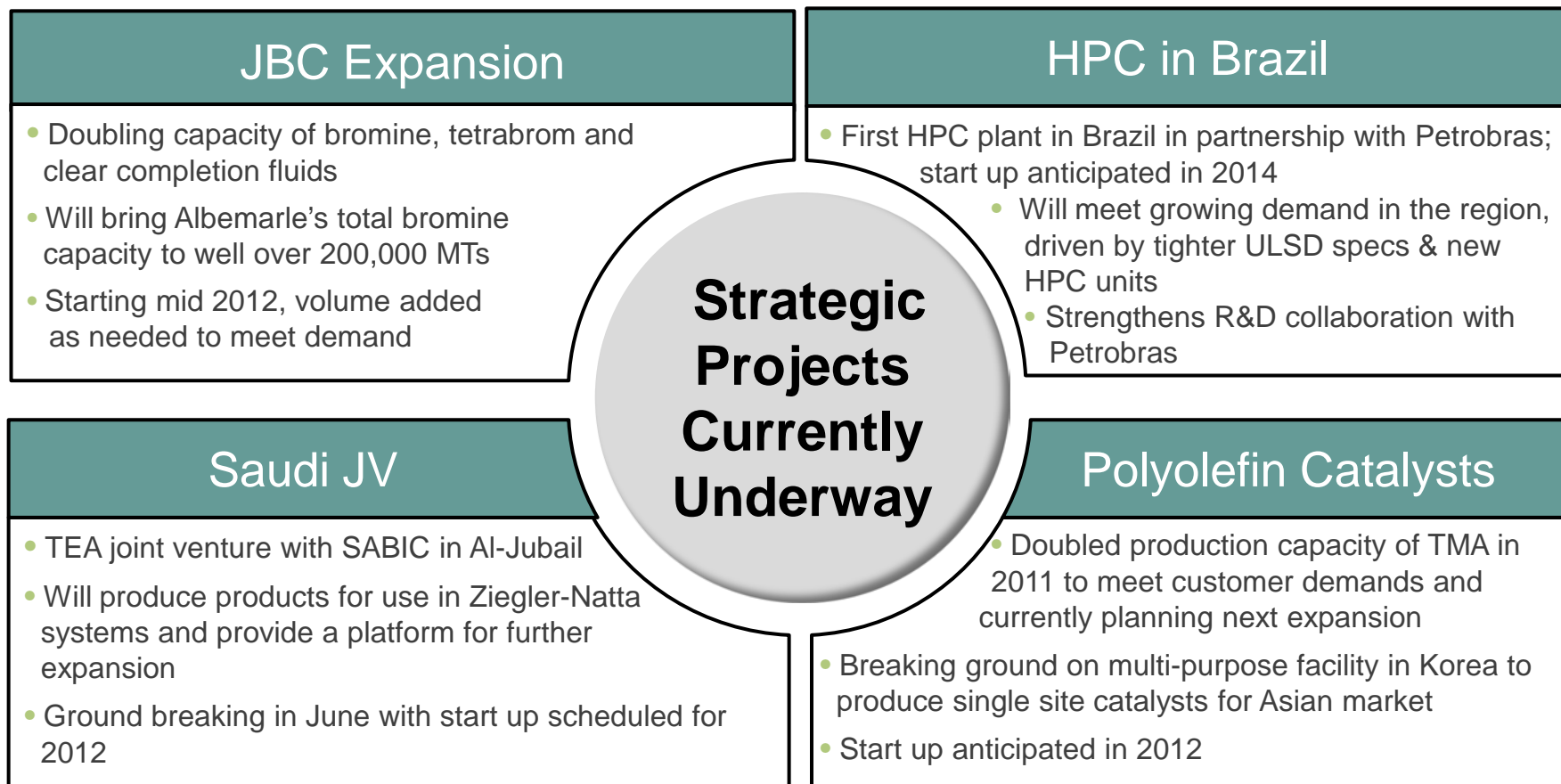
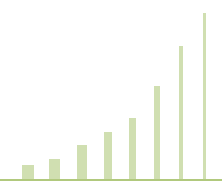
- Albemarle's growth over the last decade has exceeded GDP
- GDP is expected to grow by a CAGR of 4.58% from 2010 to 2015
- Emerging and developing economies are projected to outpace rest of world over next 5 years, and Albemarle has plans underway to participate in this growth

*Data Sources: IMF, World Bank

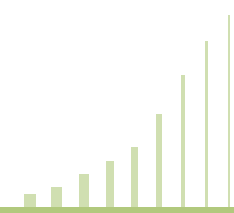
Shifting of Global Economic Growth	
GDP % Growth *	2010-2015 CAGR
China	7.00
India	8.58
Korea	5.36
Brazil	4.93



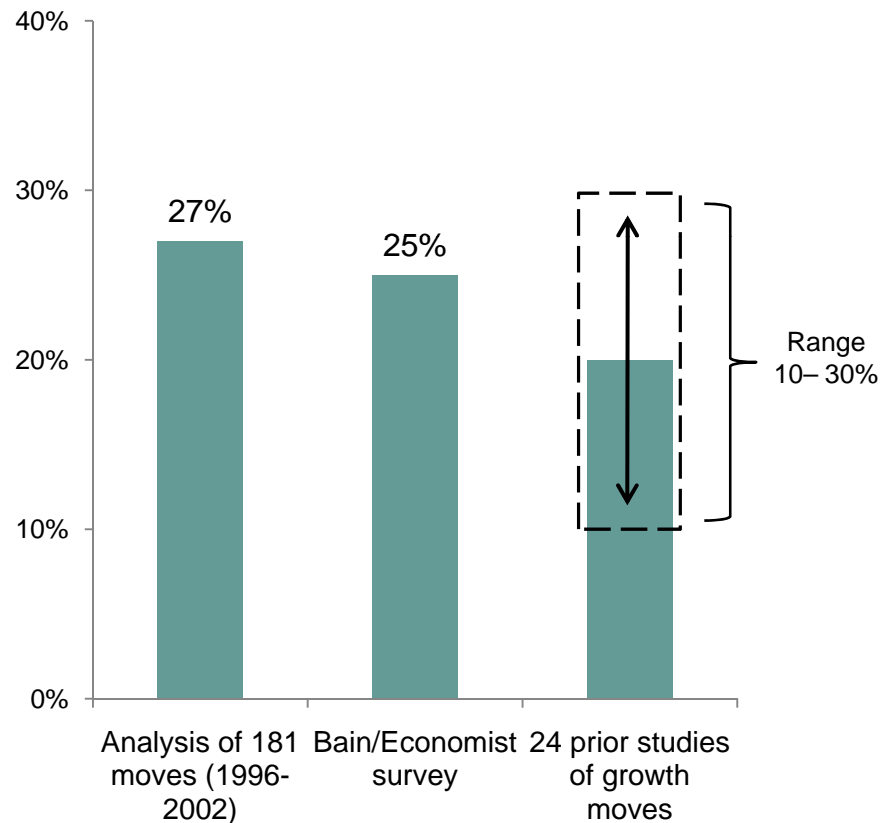
Investments in Current Businesses Will Provide Excellent Returns



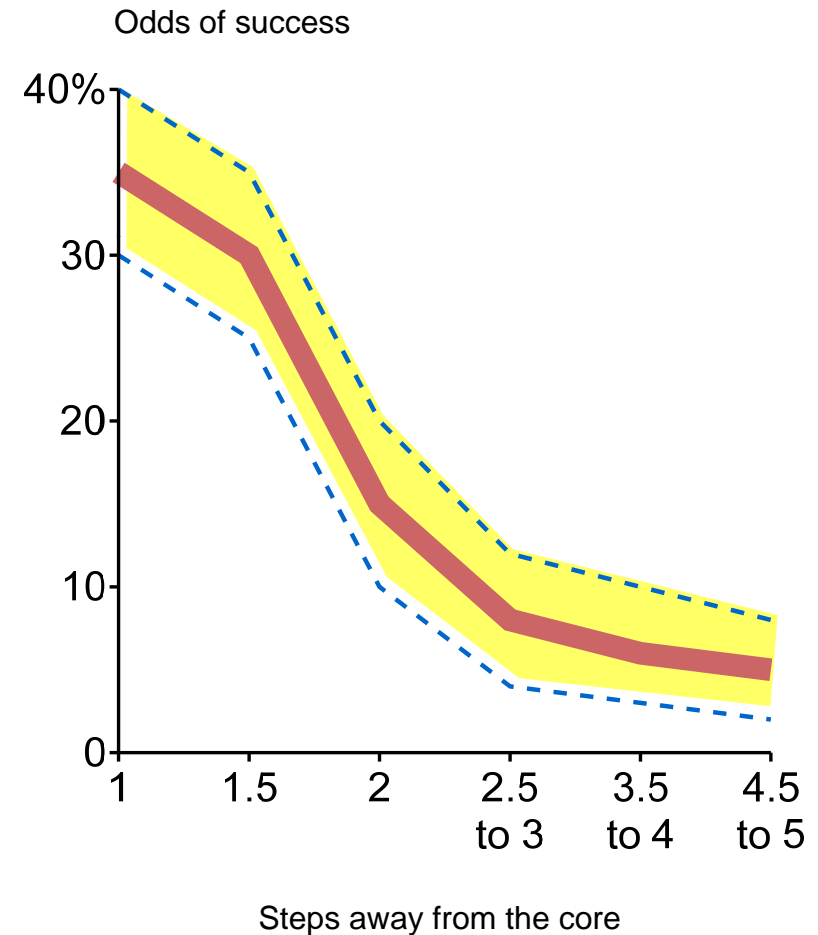
Companies That Successfully Expand Their Business do so by Building Upon Core Strengths



Adjacency success rate: percent of cases

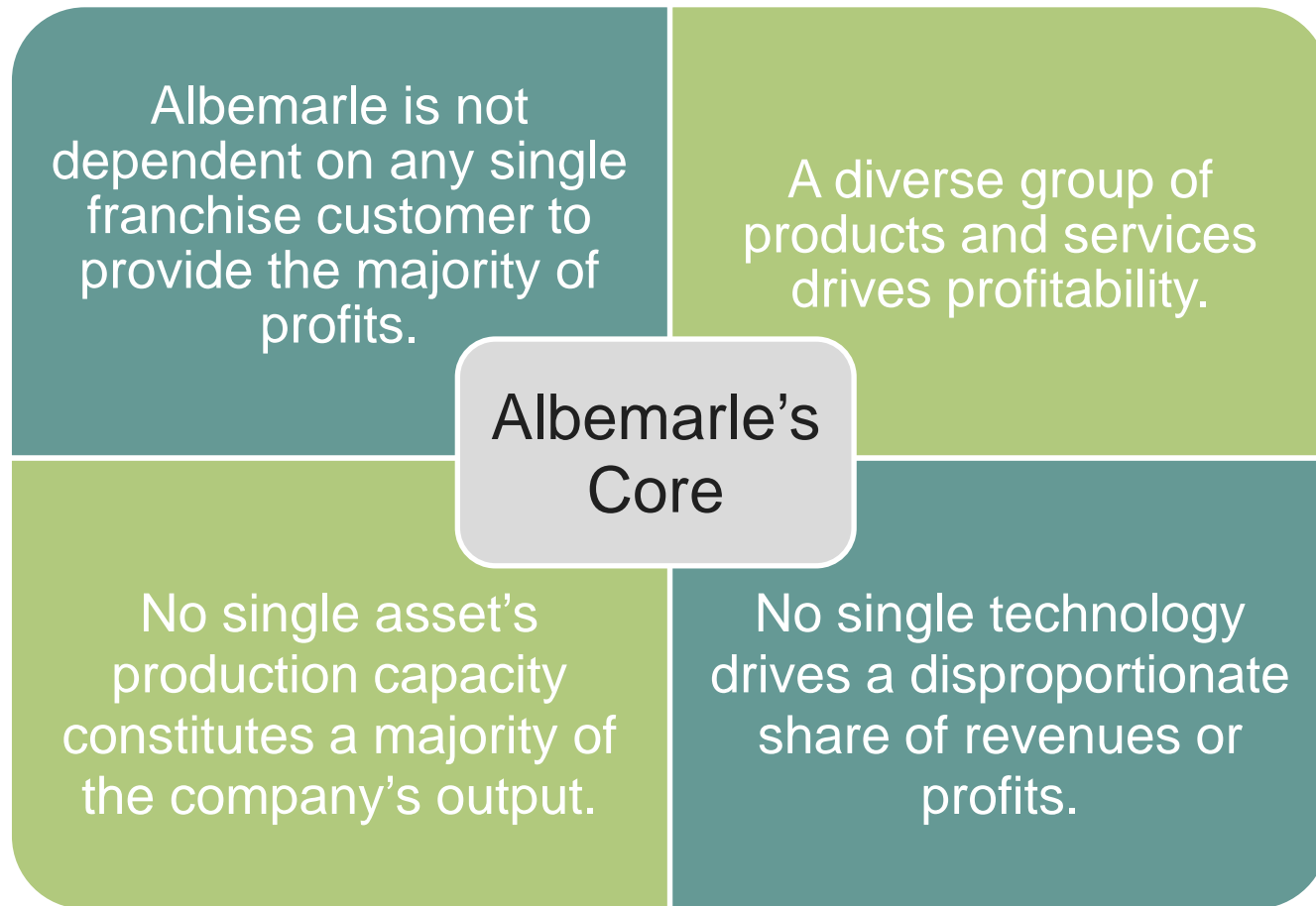
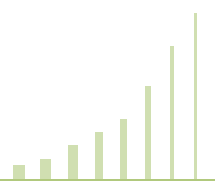


Empirical odds of success in pursuing adjacencies by steps from the core



Source: Bain analysis

Albemarle's Core is Critical to a Successful Strategy of Expanding Into Adjacent Markets



The Intersection of two Core Capabilities Drives our Competitive Advantage

Chemical process innovation

Differentiated technology capabilities to bring complex products to market quicker than others, often utilizing innovative processes that bring **cost and quality advantages**



Strategic product management

Differentiated capability to understand **market dynamics and customer performance requirements** in order to **execute product strategies**



Age Group	Number of people (millions)
15-19	~10
20-24	~12
25-29	~15
30-34	~18
35-39	~22
40-44	~25
45-49	~35
50-54	~55
55-59	~75
60-64	~95
65 and over	~105

Specialty chemicals market map

Albemarle Technologies

Chemistries

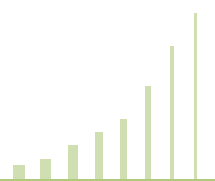
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Today, Albemarle is Working on Adjacency Opportunities With Potential 2015 Revenue of \$1 Billion

	Adjacency	2015 Revenue Potential (\$MM)	2011 Status
CATALYSTS	Ziegler-Natta Polyolefins	\$75 - \$100	Scale up & Commercialization
	Electronic Organometallics	\$70 - \$90	Commercialization
	Single Site Catalysts	\$75 - \$100	Qualification & Scale-up
	Coking Technology	\$50 - \$75	Ideation
	Specialty Zeolites	\$20 - \$40	Qualification
POLYMER SOLUTIONS	Initial Products in Green Armor	\$40 - \$80	Scale up & Commercialization
	Geographic Expansion in Mineral Flame Retardants	\$50 - \$75	Exploration
	New Fire Safety Solutions for Wiring Board/ Connectors	\$30 - \$50	Ideation & Qualification
	New Mineral Fire Safety Solutions for Wire & Cable	\$50 - \$75	Ideation & Qualification
	Food Safety	\$70 - \$80	Qualification & Commercialization
FINE CHEMISTRY	Lithium	\$50 - \$75	Pilot Plant
	Geographic Expansion for Fine Chemistry Services	\$25 - \$50	Exploration
	Mercury Removal	\$125 - \$225	Qualification, Scale up & Commercialization
	Specialty Materials	\$65 - \$85	Ideation & Qualification



Selective M&A will Allow Albemarle to Complete the Doubling of Our Business



Building Upon
Albemarle's Base
Technologies



Attractive Markets
That Allow Albemarle
to Utilize its Core
Capabilities

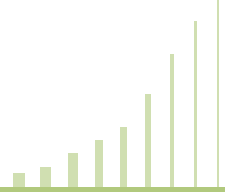


Macro Economic
Trends:

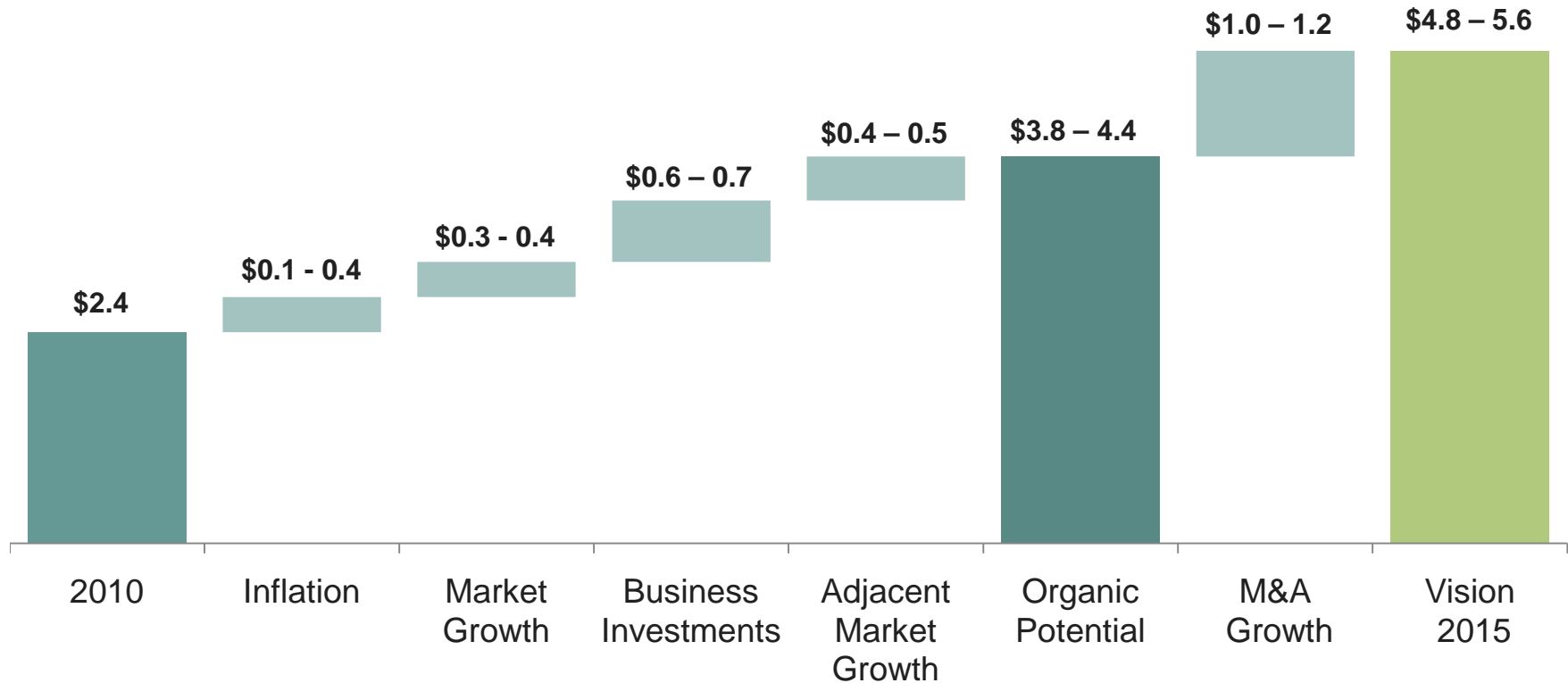
- Energy
- Consumerism
- Health & Nutrition
- Transportation & Infrastructure
- Safety & Security
- Clean Air, Water & Fuel
- Globalization



Executing This Strategy Will Allow us to Achieve Vision 2015



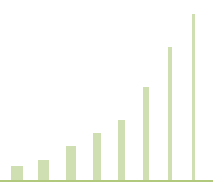
Revenue: 2010 – 2015
(\$ in billions)



Ambition, Execution, Value & Growth

John Steitz,
Executive Vice President and
Chief Operating Officer



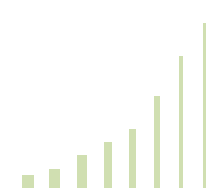


Well-Positioned and Investing for Growth

Unlocking Value in Established Products	Accelerating Growth in Emerging Markets	Optimizing Intellectual Property
<ul style="list-style-type: none">• Reputation for quality & reliability• State-of-the-art manufacturing processes and technologies• Strong portfolio of well-established products	<ul style="list-style-type: none">• Growing presence in emerging markets• Strong and growing tech service support• Country-based teams that develop customer relationships	<ul style="list-style-type: none">• Leverage foundation technologies• Pursue opportunities in “niche” markets• Leader in chemical process innovation

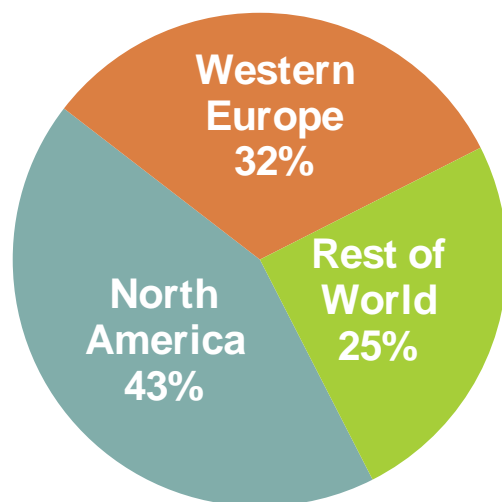


Forces of Globalization Play to our Strength

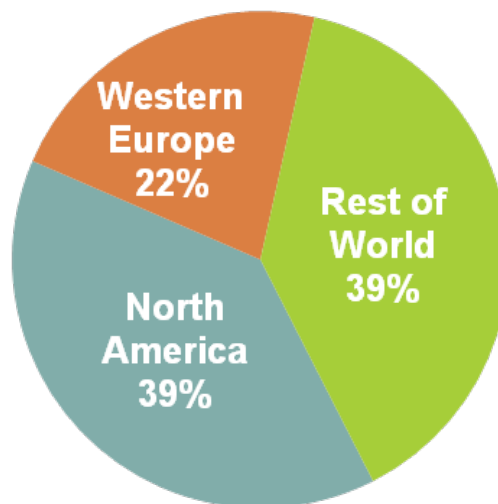


50% of Sales Outside NA & EU by 2015

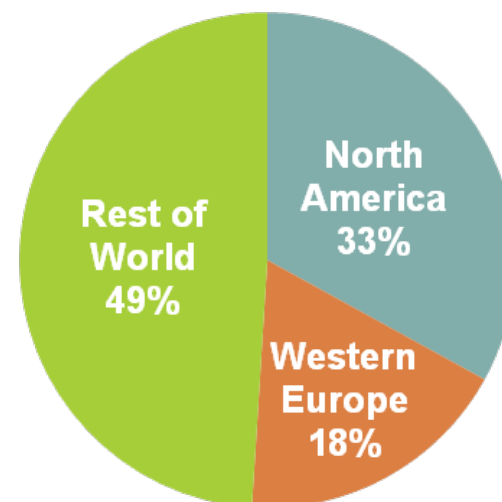
2005



2010



2015

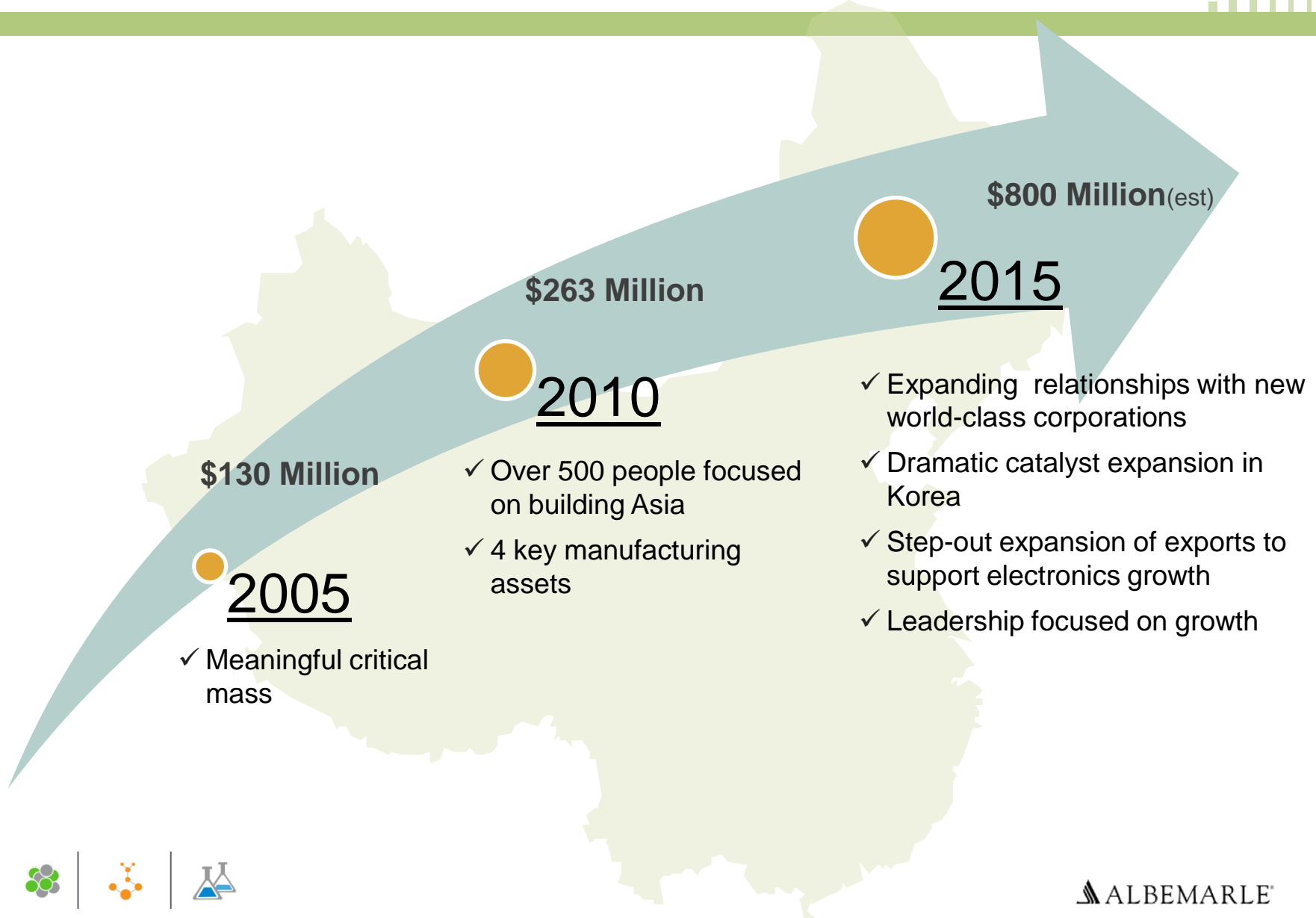


Investing in Globalization

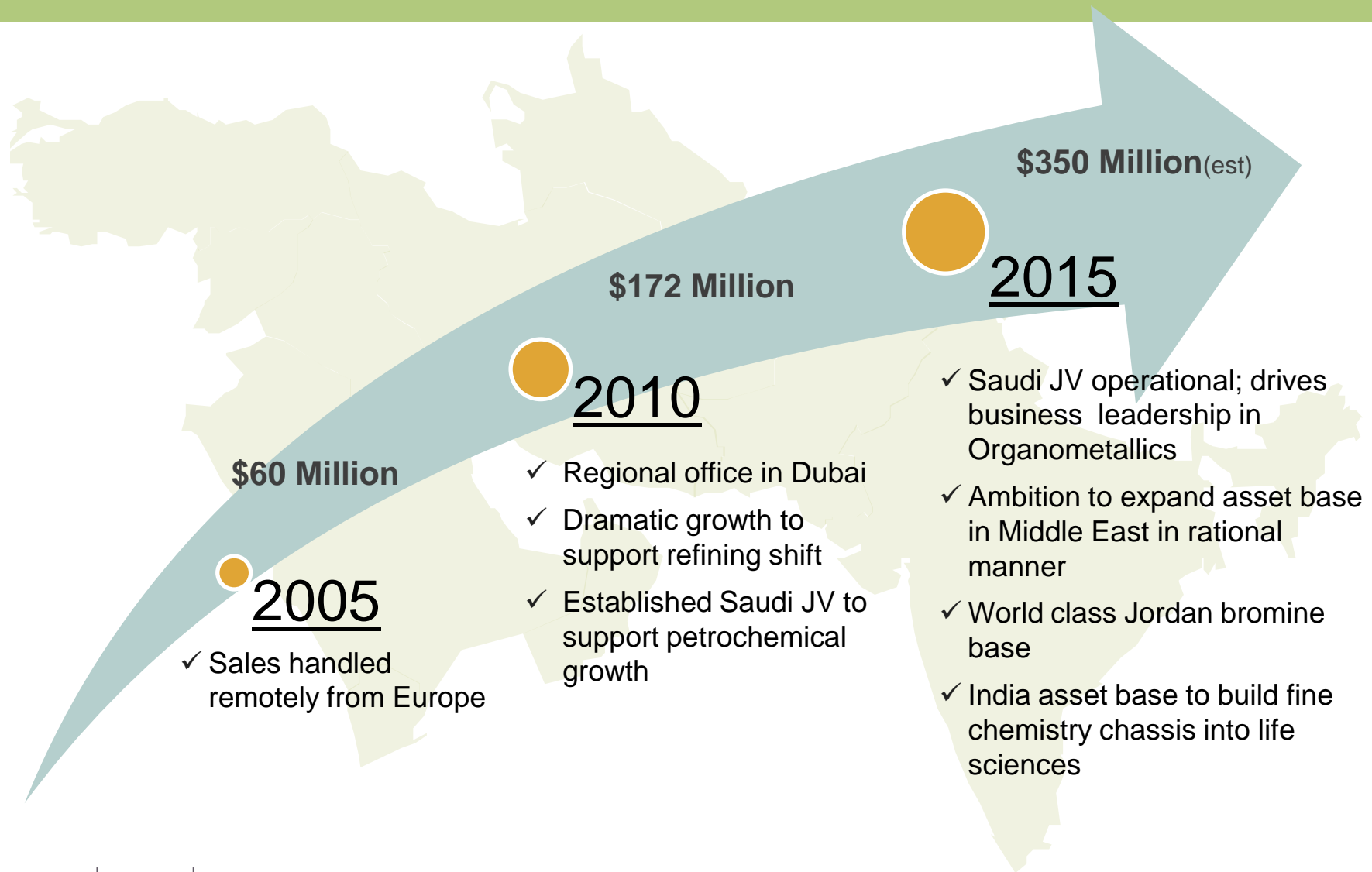


Asia:

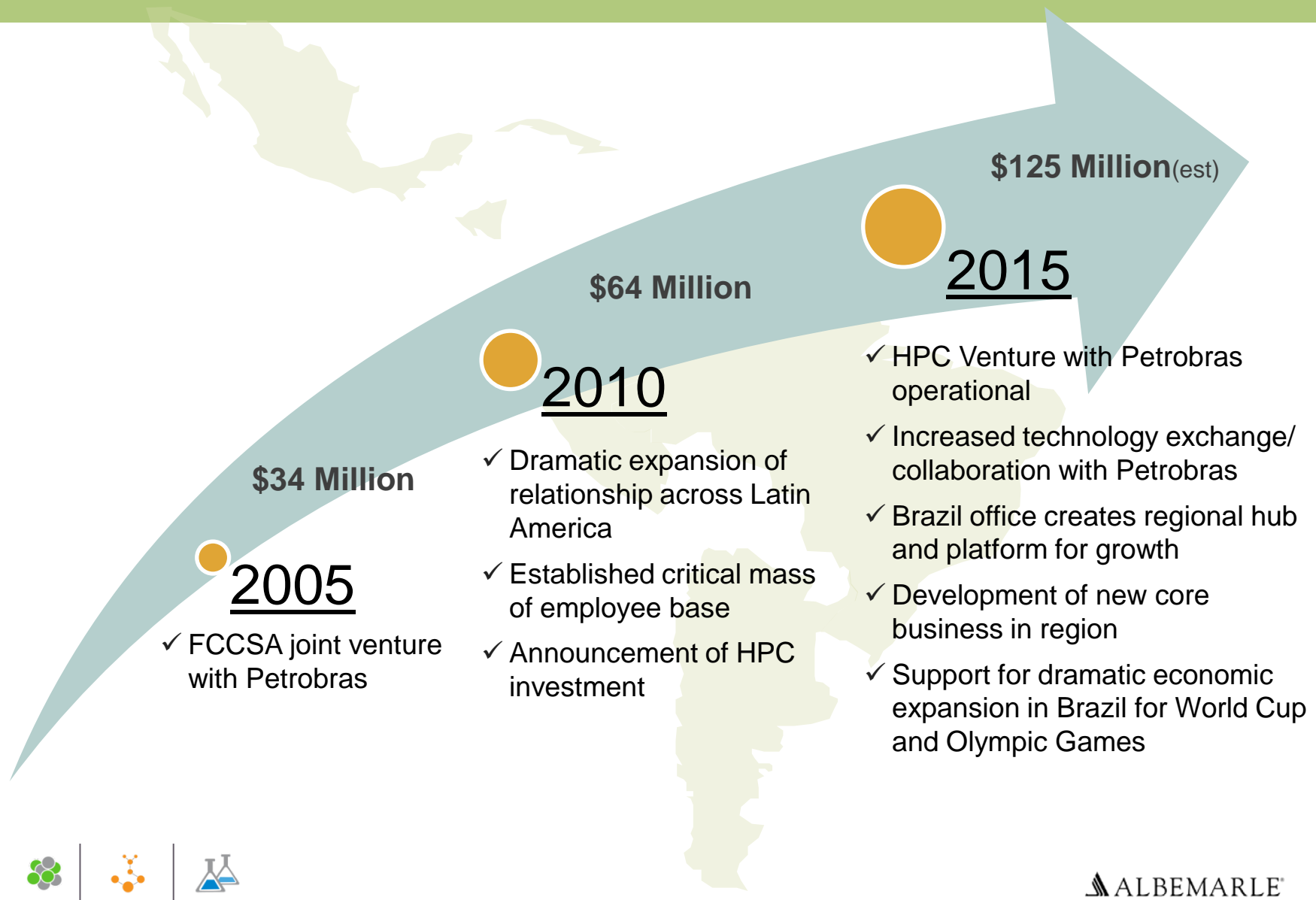
Organization in Place to Support 2015 Growth Plans



Middle East/India: Second Only to Asia in Scope & Size



Latin America: Strategic; Future Growth Beyond Refinery Catalysts



An Established Leader

Catalysts



- Global push to lower sulfur emissions
- Increased specialization of polyolefins
- Cost effective solutions for renewable fuels
- Demand growth in developing regions

Polymer Solutions



- Continued demand for fire safety solutions
- Capturing growth in China
- Eco-friendly products focused on sustainability
- Expanding applications into coatings & construction

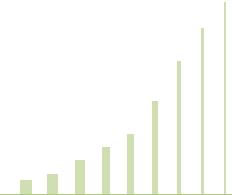
Fine Chemistry



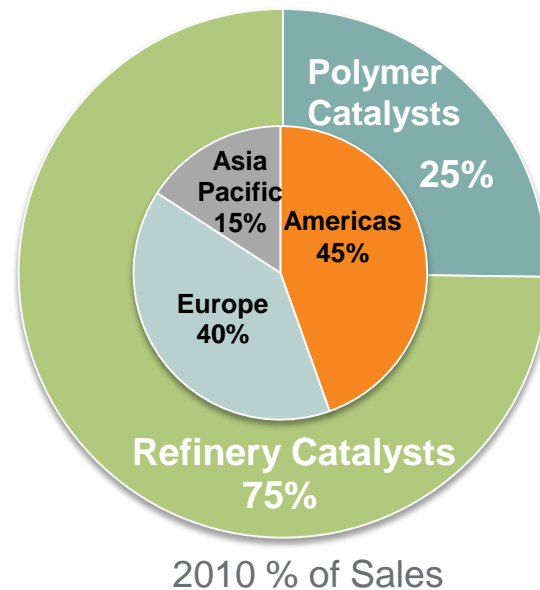
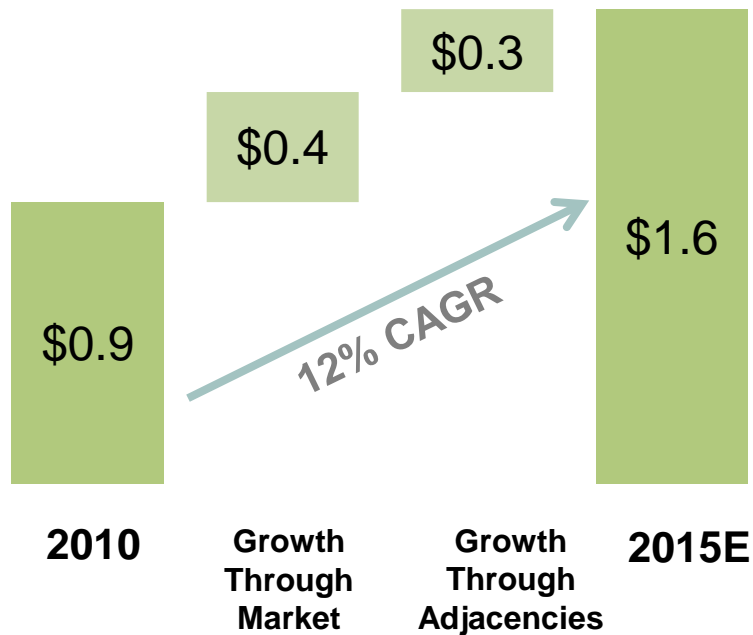
- Sustained tightness in global bromine supply
- Rebound of global completion fluids demand
- Expansion of new bromine applications
- New crop protection and life science opportunities



Catalysts Revenue Walk: 2010-2015



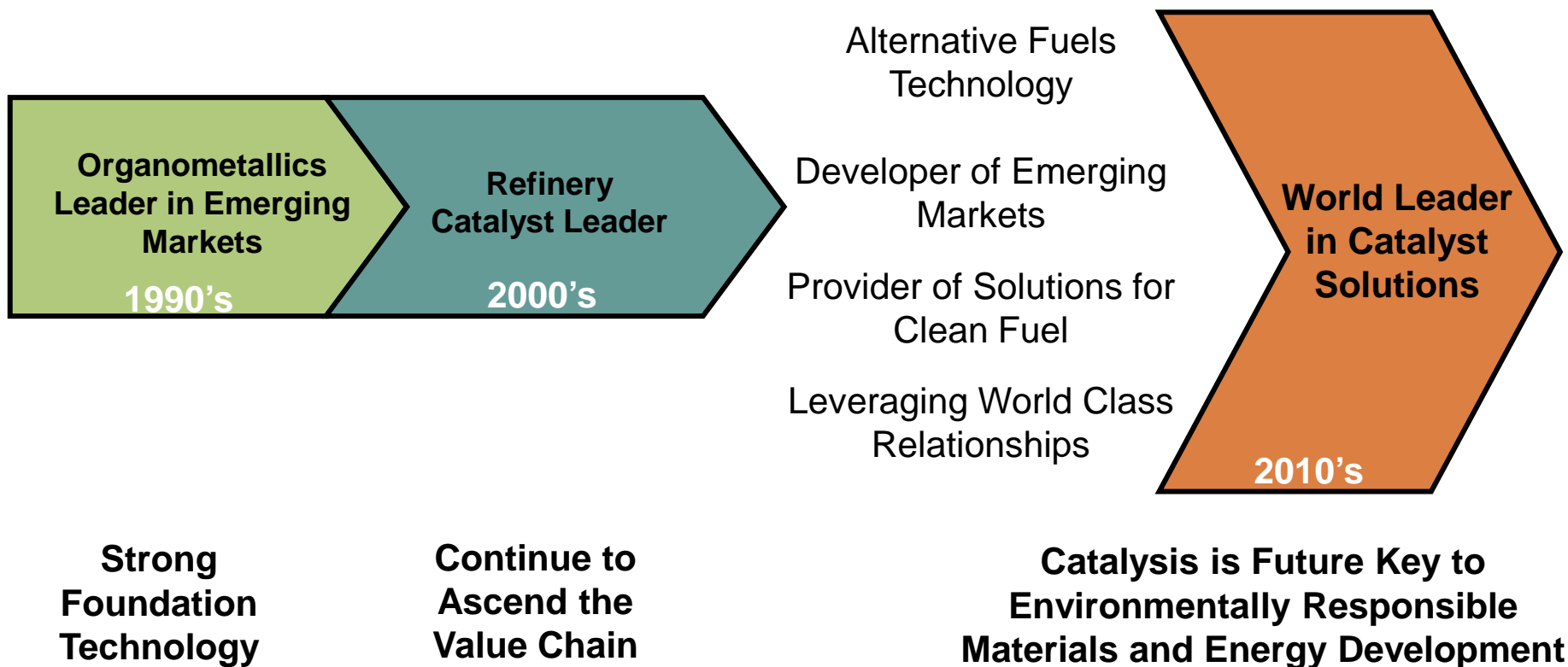
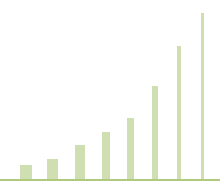
Revenue (Billions)



2015 Segment Income Margin Target ➡ 28-32%



Become the World's Leading Catalyst Solution Provider



**Continuing on Course
Sharper & Sharper Execution**



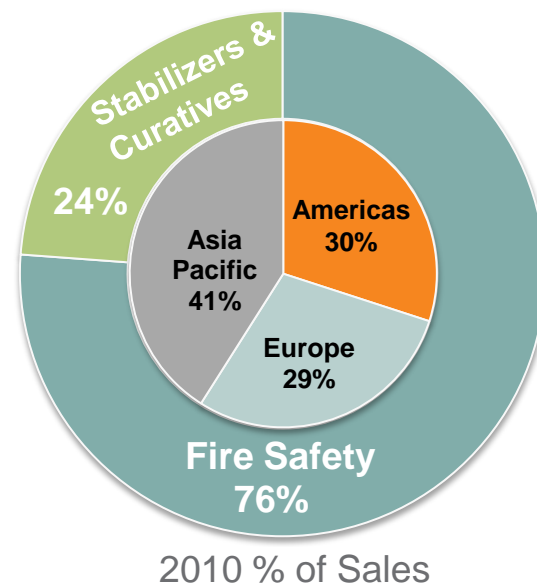
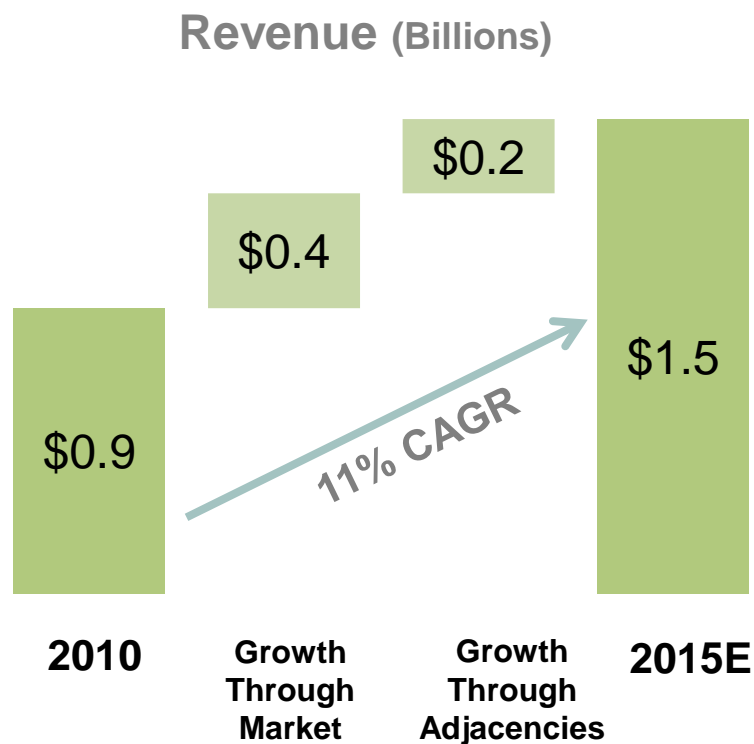
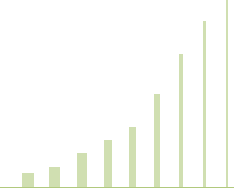
And With a New Generation of Leaders...



Driving Significant Sales Growth



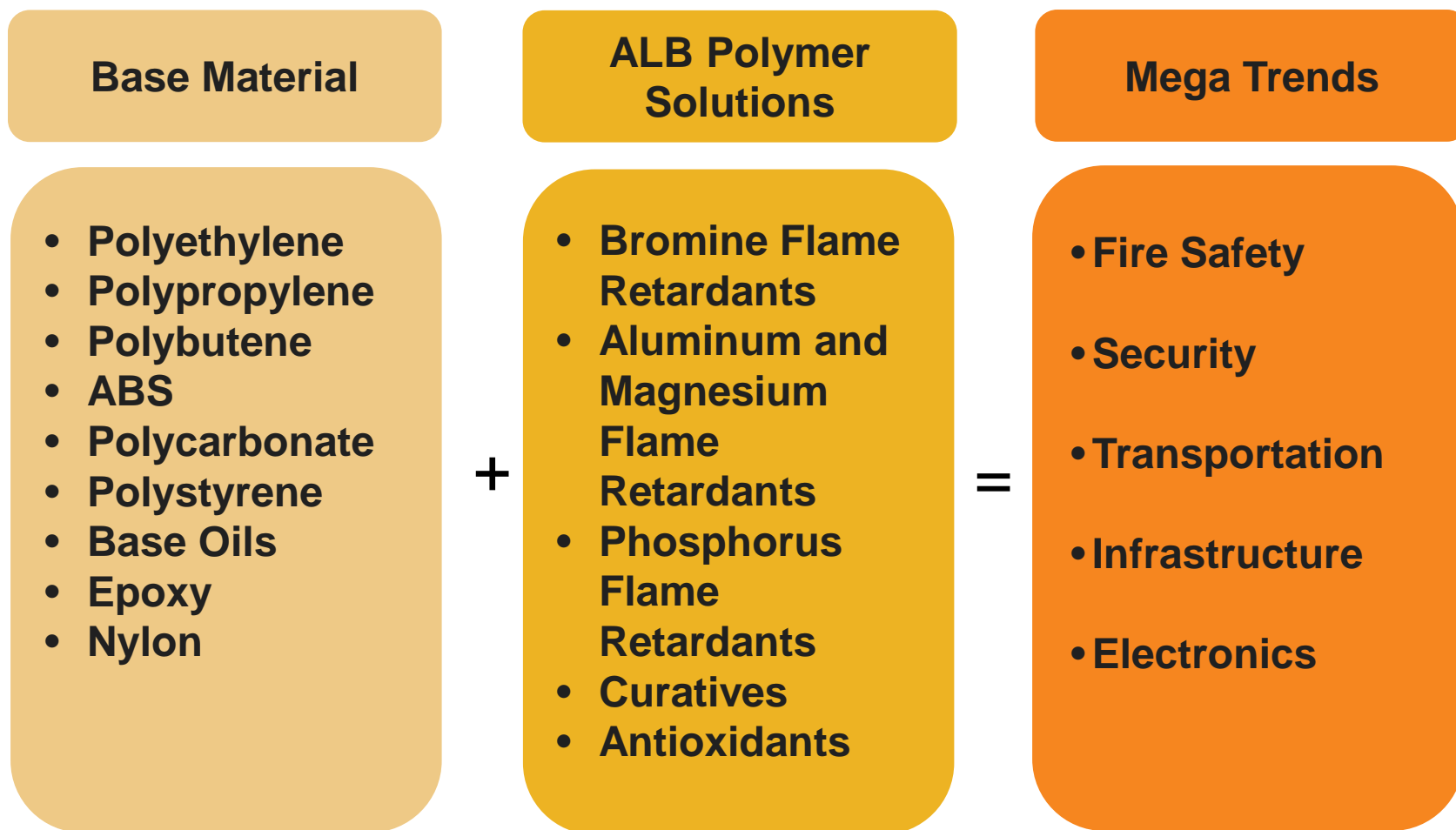
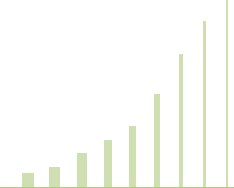
Polymer Solutions Revenue Walk: 2010-2015



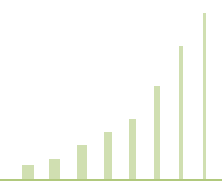
2015 Segment Income Margin Target ➡ 28-32%



Excel at Advancing Value of Basic Materials



Increasing Demand for Bromine-Based Fire Safety



Electrical Connectors

- Most complex and fragmented market
- CAGR of 6-7%

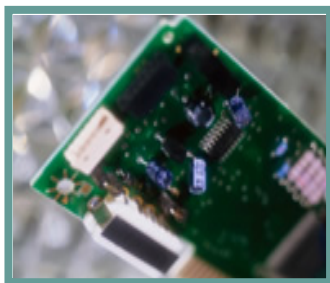


Electronic Enclosures

- High growth in TVs and office equip
- CAGR of 5-6%

Printed Wire Board

- High growth in communication servers
- GDP CAGR



Construction

- Bromine used in rigid insulation board
- Energy conservation (insulation) main driver
- GDP CAGR

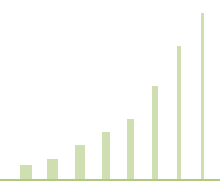


Wire & Cable

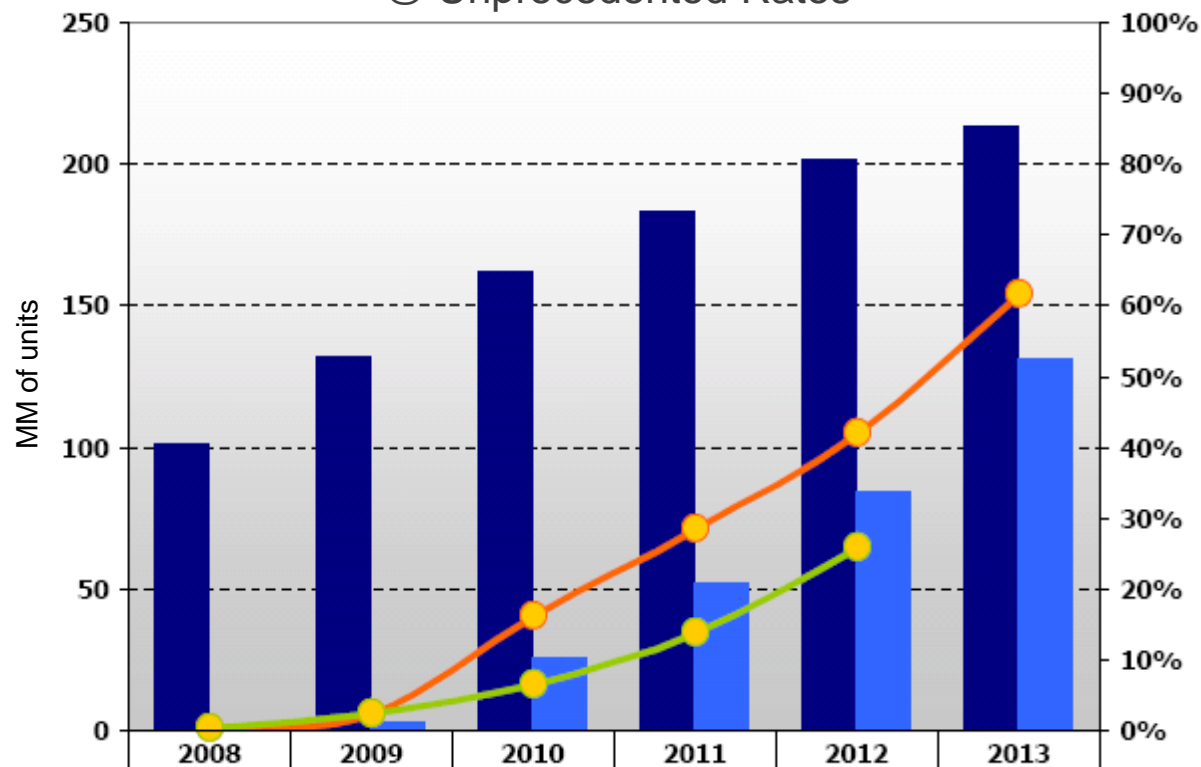
- Infrastructure growth in developing countries
- CAGR of 4-5%



LCD and LED/LCD TV Growth Will Continue Beyond 2015...



LCD and LED/LCD TV Growth Continues
@ Unprecedented Rates

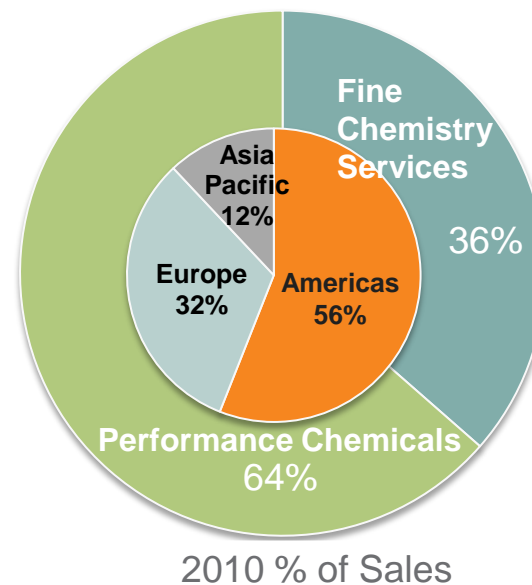
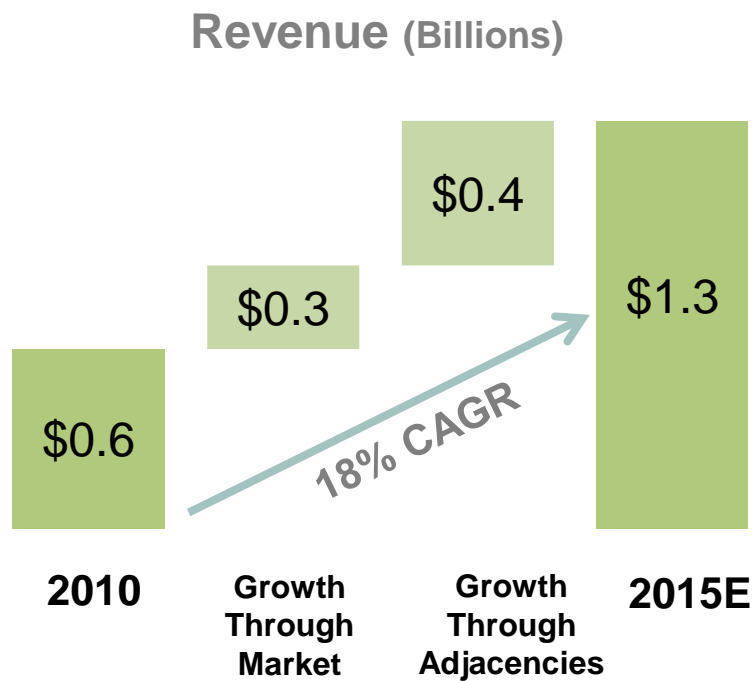


LCD TV	101.5	131.9	162.0	183.2	201.4	213.0
LED LCD TV	0.2	3.2	25.9	51.9	84.4	131.1
LED LCD TV (% Q4'09 Forecast)	0.2%	2.4%	16.0%	28.3%	41.9%	61.5%
LED LCD TV (% Q4'08 Forecast)	0.2%	2.5%	6.5%	13.9%	25.9%	

(Source: Research Bank, Dec '09)



Fine Chemistry Revenue Walk: 2010-2015



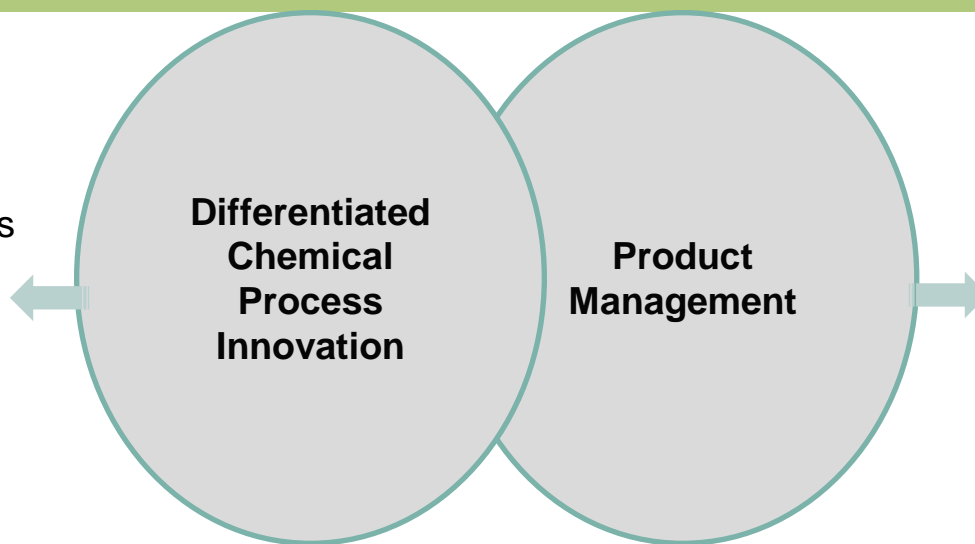
2015 Segment Income Margin Target ➡ 20-24%



Fine Chemistry: Uniquely Positioned to Leverage Albemarle's Core Strengths

“The very essence of FCS”

Differentiated technology capabilities allow ALB to bring complex products to market quicker than others, often utilizing innovative processes that bring cost and quality advantages.



“We have driven the bromine franchise with this skill set”

Talented business managers have a differentiated capability to understand market dynamics and customer performance requirements in order to execute product strategies.

Successfully applying our strengths

Leveraging engineering expertise to innovate on processes, including:

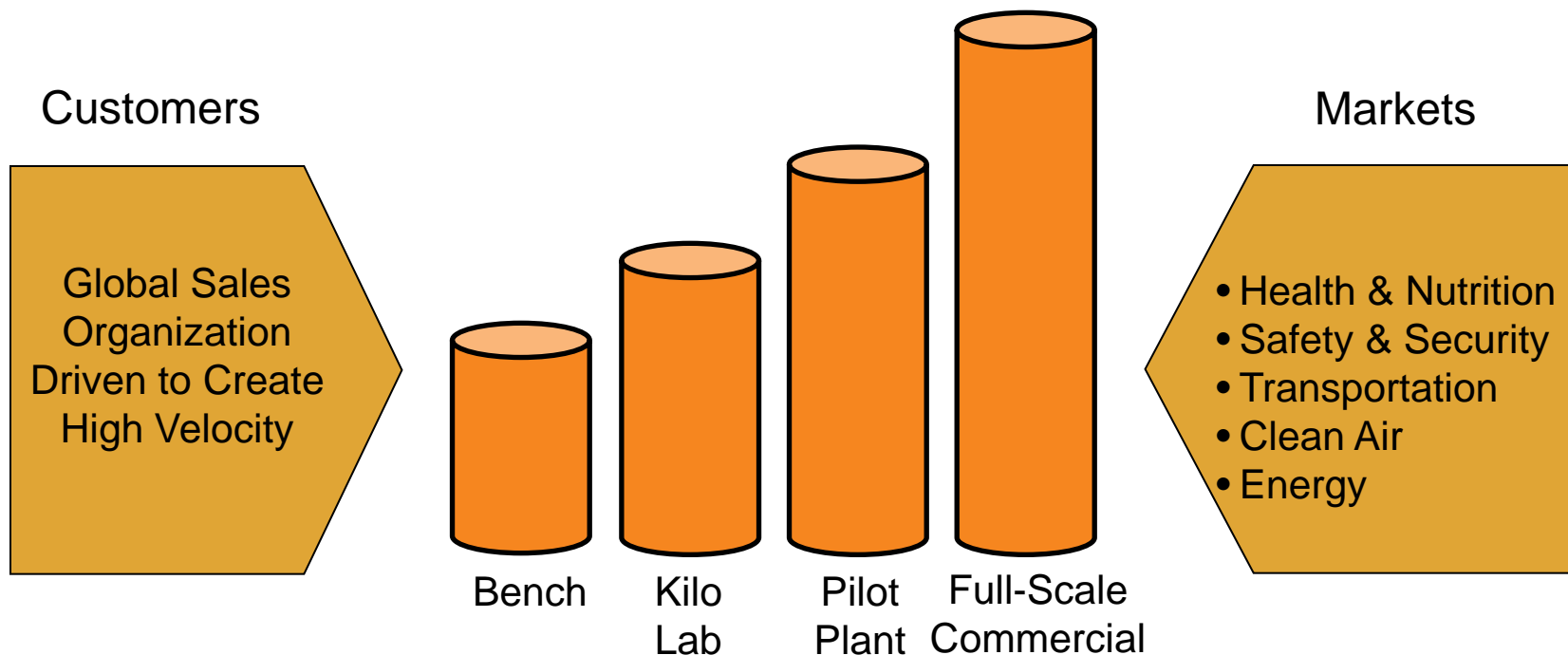
- Adapting processes to fit existing assets
- Producing at scale more quickly than others
- Utilizing deep understanding of chemistries towards unique processes and market leading quality
- Improving processes to reduce costs

Analyzing markets, trends and position to develop winning strategies, including:

- Performing demand / supply analyses
- Executing pricing strategies & tactics
- Identifying actions required to drive profitability in-period and aligning resources to capture
- Leveraging partnerships to take advantage of market opportunities



Handling Today's Toughest Chemistry Challenges

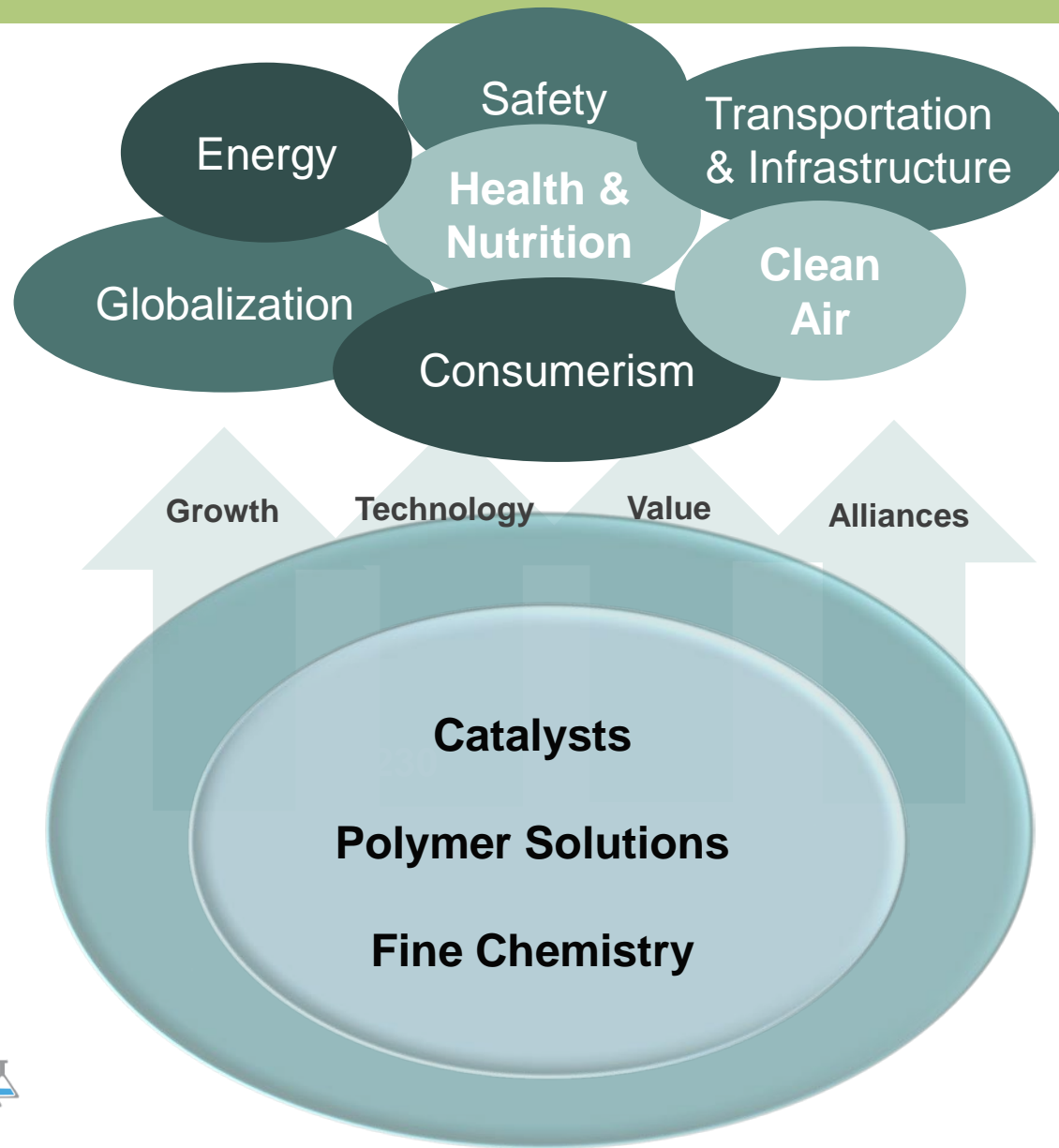


Low-Cost, Fast and Reliable Asset Base

- Innovative chemistry to tackle challenging customer problems
- Flexible asset base allowing fast customer access to high-growth markets



Albemarle in Motion...Our Future has Begun

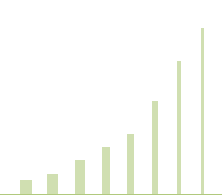


Financial Overview and M&A

Scott Tozier,
Senior Vice President and
Chief Financial Officer



Albemarle is Poised for Growth



- Q1 points to a strong 2011
- Vision 2015 outlook is based on sound fundamentals
- Generating cash with no pension headwind
- Cash allocation will be disciplined
- M&A will deliver incremental earnings growth



Q1 Points to Strong 2011

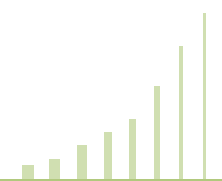
	Q1 2011 (in millions, except EPS)	Year-Over-Year	Sequential
Net Sales	\$ 697	↑ 20%	↑ 15%
Segment Income ²	\$ 172	↑ 58%	↑ 26%
Net Income ¹	\$ 107	↑ 68%	↑ 25%
EBITDA ²	\$ 171	↑ 46%	↑ 22%
Diluted EPS ²	\$ 1.15	↑ 55%	↑ 25%
Free Cash Flow ²	\$ 67	↑ 179%	↓ 22%

- Continued end-market growth; strength in all segments
- Strategic expansions start to benefit
- Raw material volatility in the short-term
- Focus on working capital to generate incremental cash



¹Reflects Net Income attributable to Albemarle Corporation
²Non-GAAP measure. See Non-GAAP reconciliations in Appendix.

Vision 2015 Financial Outlook

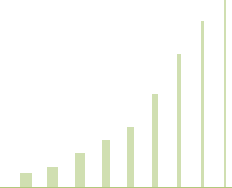


	2010	2015 Organic		2015 incl M&A*	
Revenue	\$2.4b	\$3.8b	\$4.4b	\$4.8b	\$5.6b
5 yr CAGR	3%	10%	13%	15%	18%
Segment Income Margin	19%	22%	23%	22%	23%
EBITDA	\$0.5b	\$1.0b	\$1.1b	\$1.2b	\$1.4b
EPS	\$3.56	\$6.75	\$7.75	\$8.40	\$9.75
5 yr CAGR	24%	14%	17%	19%	22%
FCF	\$0.26b	\$0.57b	\$0.61b	\$0.66b	\$0.71b
5 yr CAGR	21%	17%	19%	21%	22%

*2015 outlook are estimates



Vision 2015 – Planning Framework



Double Digit Revenue Growth

- GDP growth in end markets: ~3%
- Organic investment and adjacency growth: 7-10%
- Sustained 2011 pricing gains

Double Digit EPS Growth

- Ability to cover increased raw material costs: 0-7% cost inflation
- Fixed Cost leverage on higher volumes: 4-6% growth in R&D & SG&A
- Interest cost flat at \$9-10M per year
- Tax rate flat at 25%

Double Digit Cash Flow Growth

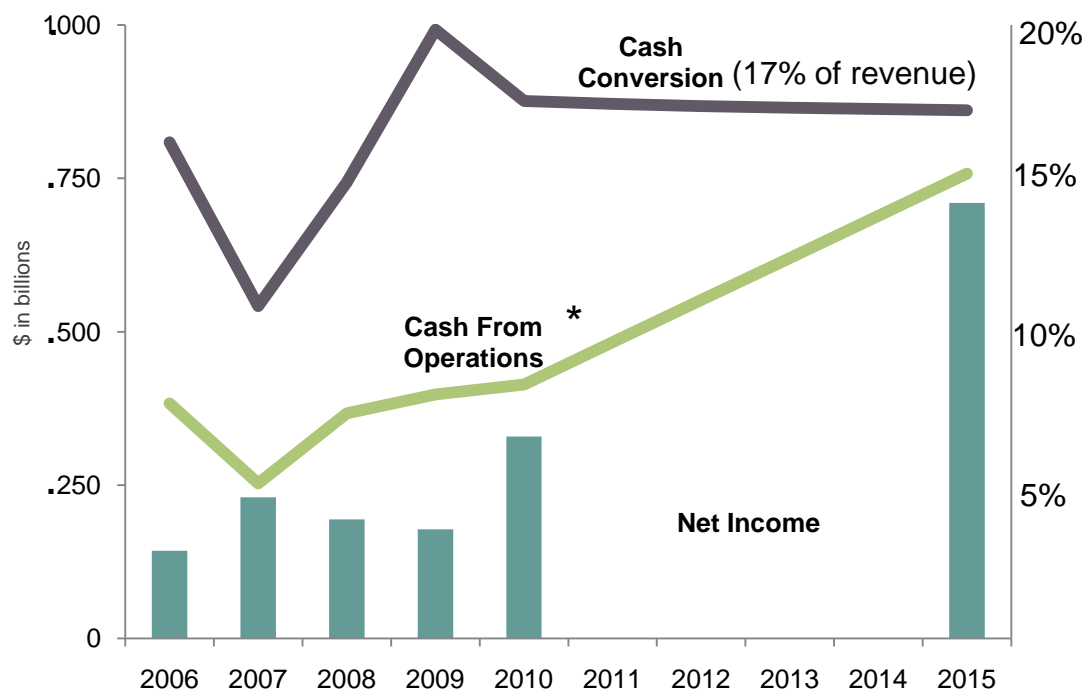
- Effective use of working capital: <20%
- Capital investment at 5% of revenue
- Return on capital >20%

Disciplined Capital Allocation

- Maintain investment grade credit rating
- Dividends growth: ~10-15%
- Share count flat
- Accretive M&A activity of ~\$1B



Generating Cash From Earnings



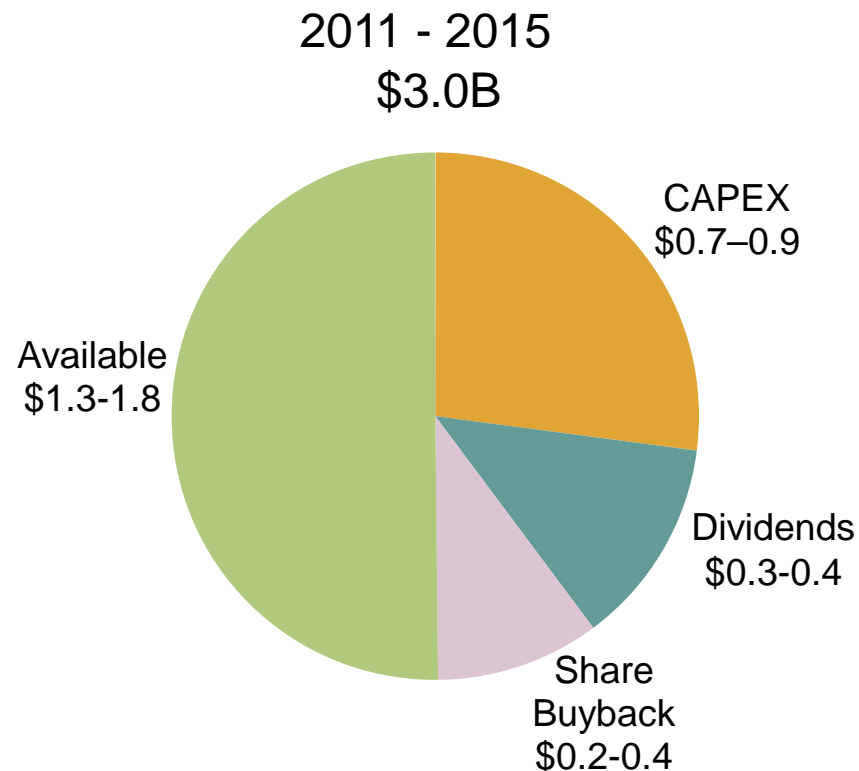
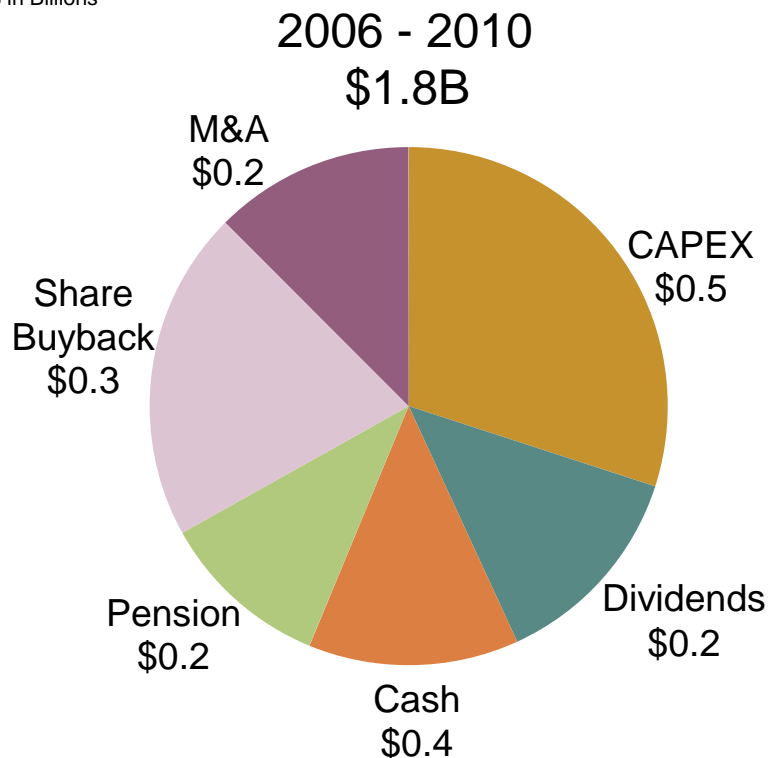
- Generating \$3B in cash 2011-2015
- 67% higher than prior 5 years
- Organic growth only
- Consistent with historical average cash conversion on revenue
- Working capital <20%
- No pension headwind through 2015

*Operating cash is before pension contributions



Disciplined Cash Allocation

\$ in Billions

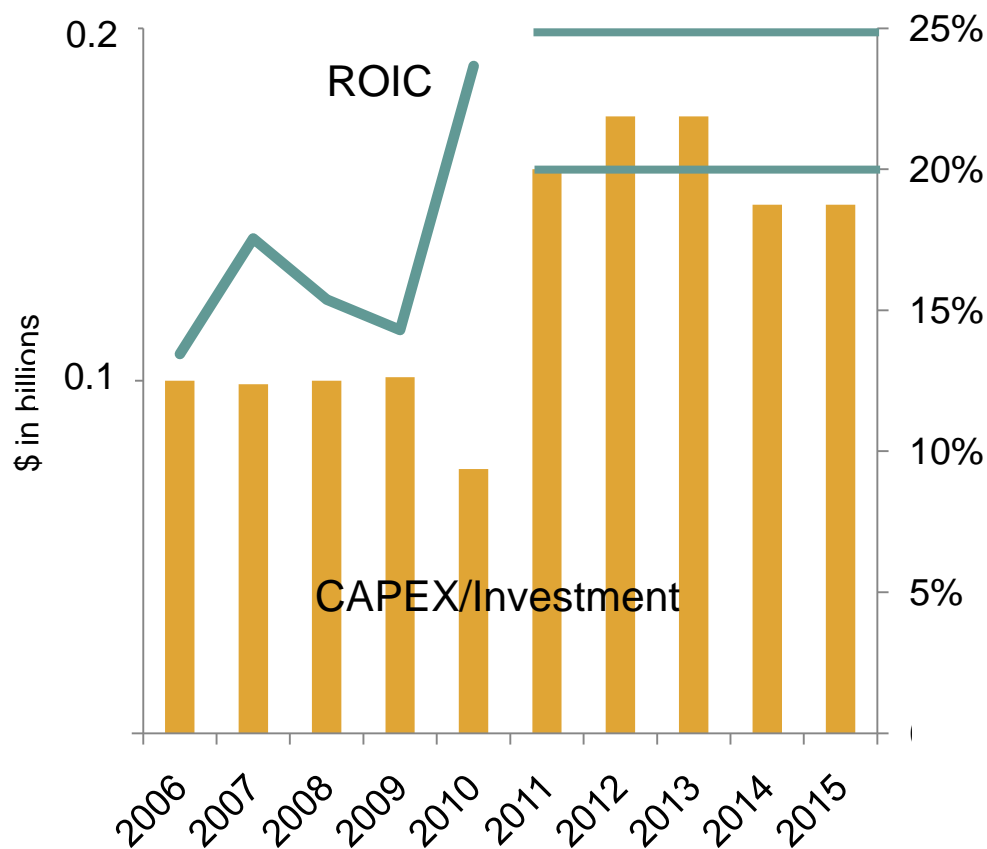


- Invest for organic growth
- CAPEX 5% of revenue
- Maintain investment grade credit
- Continued dividend growth ~10-15%

- Strategic M&A \$2B+
- Share buyback \$0.2 – 0.4B
- Pension fully funded through 2015



Organic Investments Deliver Above Historical Returns



- \$0.7-0.9B 2011-2015 CAPEX and Investments
- Funds available for all current investments and adjacencies
- ROIC target at 20-25%



Thoughtful Approach to M&A



Focus

- Core business
- Nearby adjacencies
- Expanding technologies



Scope

- Geographic breadth
- Customer penetration
- Technology toolbox

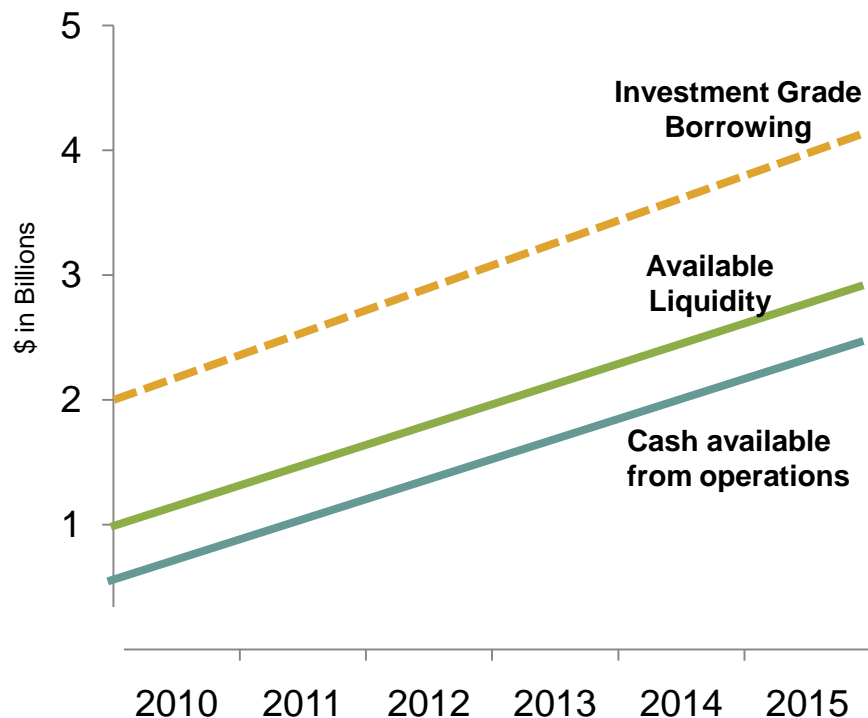


Financial Criteria

- Near-term accretion
- Retain margin strength
- Top line velocity improving
- Maintain investment grade rating

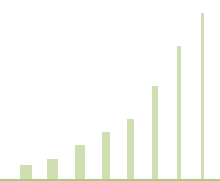


Cash Expectations for M&A



- M&A targets with quality earnings and cash flow
- Liquidity grows to ~\$2.5B in 2015
- Investment grade status will be maintained

Leadership Commitment to Deliver



We Will

- Invest in organic adjacencies
- Leverage fixed cost base
- Drive efficient working capital
- Grow revenues, EPS and cash flow

We Will Not

- Lose investment grade
- Reduce dividend
- Restrict accretive organic growth
- Destroy value through M&A



BROMINE: Albemarle's Element

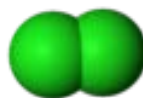
Tony Parnell,
Vice President Polymer Solutions



Bromine: The “LIQUID” Halogen; “Just Right” Reactivity



Fluorine gas



Chlorine gas



BROMINE Liquid

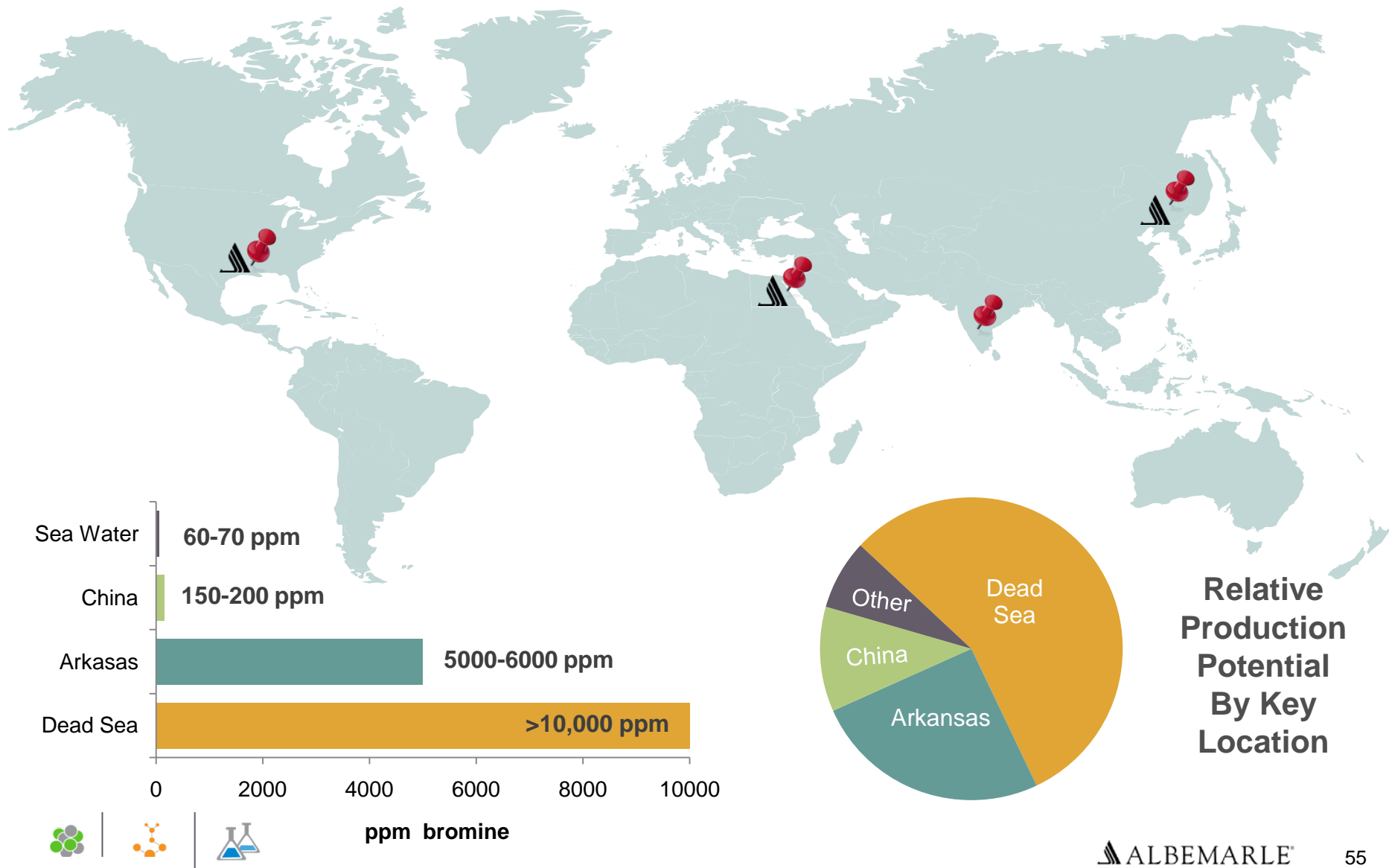


Iodine Solid

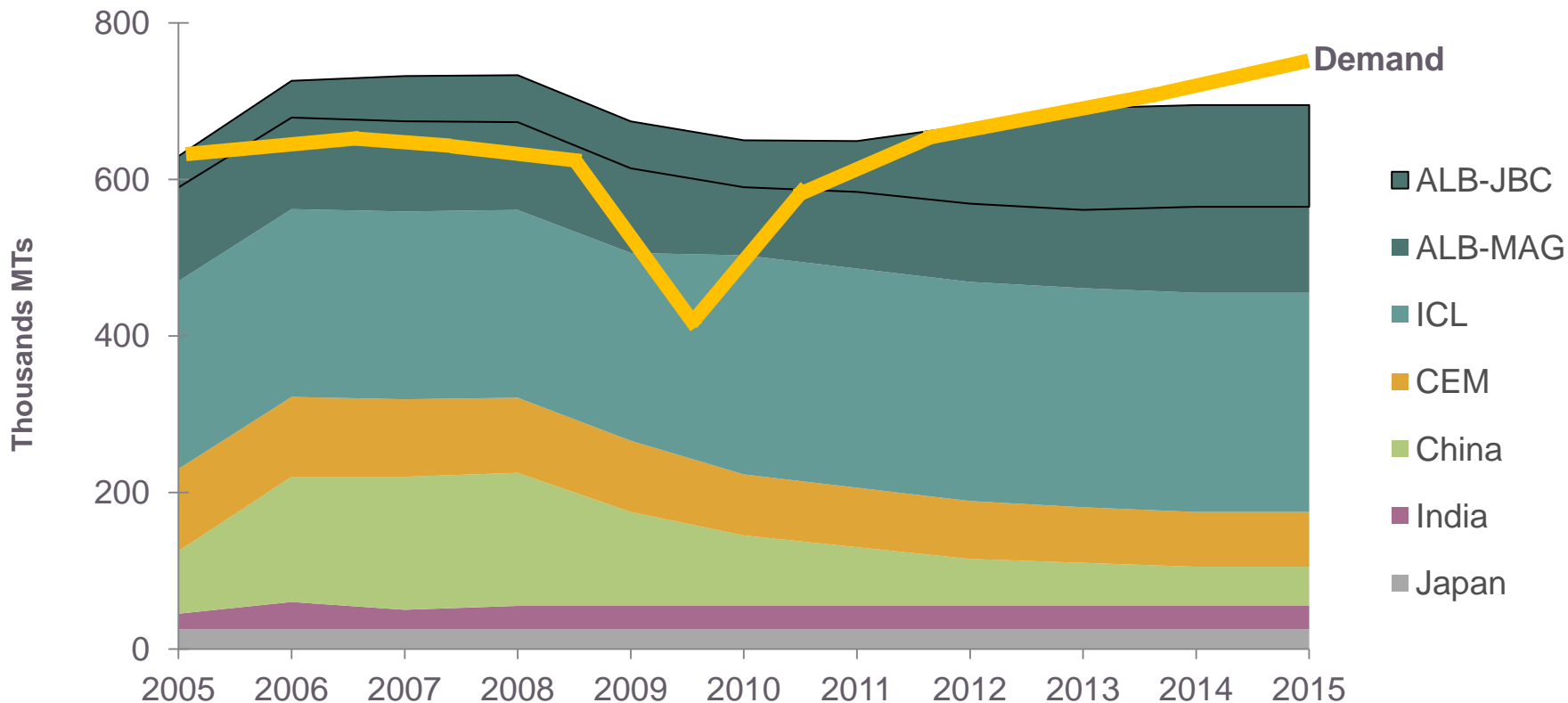
- Halogens are a family of HIGHLY reactive chemical elements
 - so reactive they cannot exist as a single atom, must have a mate!
- Bromine is the “liquid” halogen...less reactive than fluorine and chlorine but more so than Iodine....bromine’s reactivity is “just right” for hundreds of chemical reactions!
 - only 2 elements are liquid @ room temperature
- Bromine is 62nd most abundant element. It permeates the sea at low concentrationbut highly concentrated in certain areas of the world...let’s see where...



Bromine: Albemarle Commands the Geography



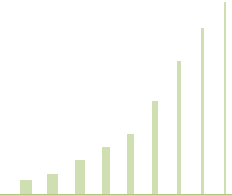
Bromine: Snapshot of Global Capacity vs. Demand



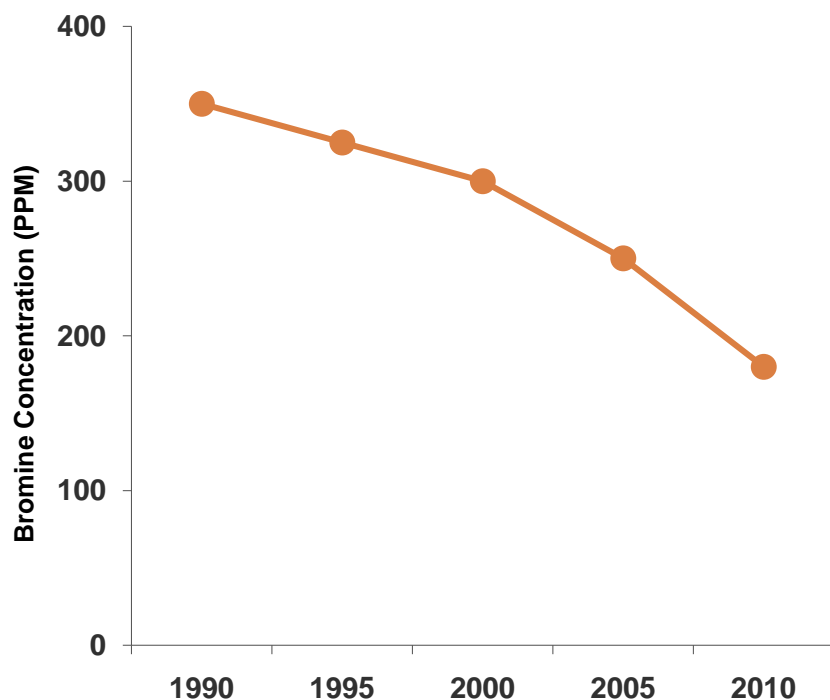
Source: management estimates and market research



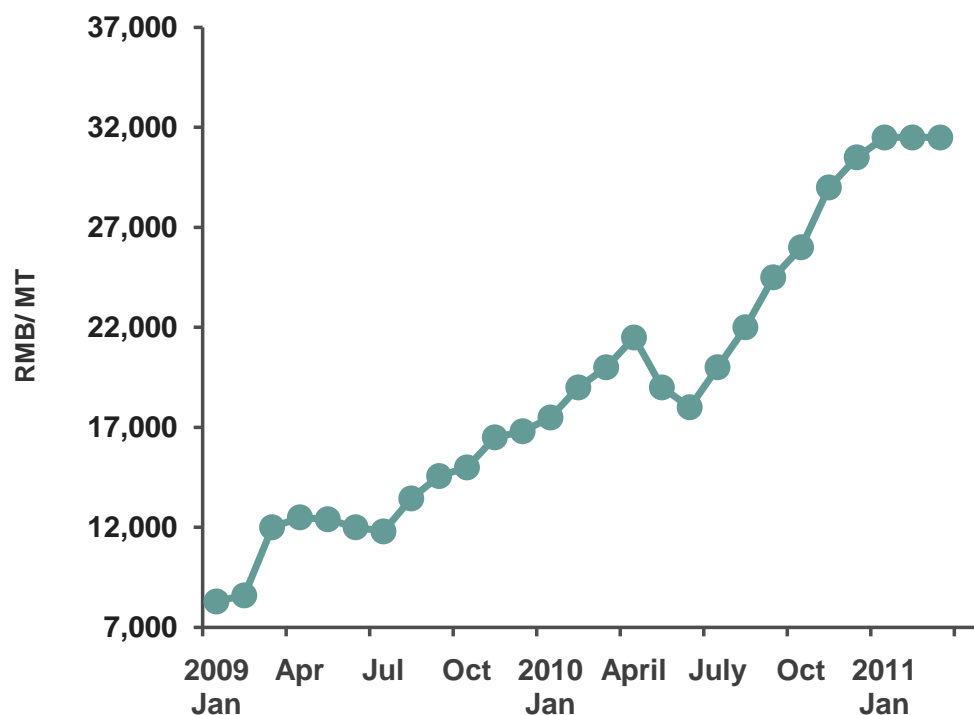
Bromine: China Source is Depleting



China Bromine Depletion



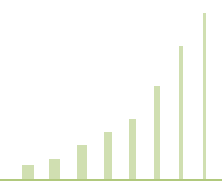
China Bromine Price



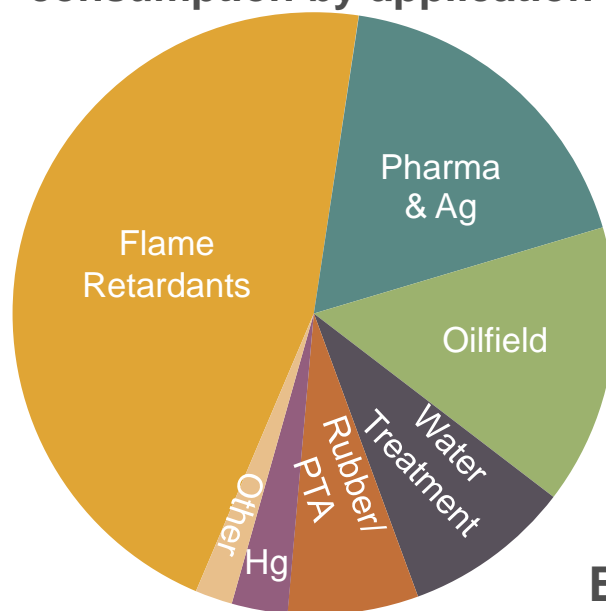
Source: management estimates and market research



Albemarle's Bromine: The Cornerstone of Our Growth



2011 Global Market
(\$2.75B derivatives value)
**Relative bromine
consumption by application**



Classic Markets:

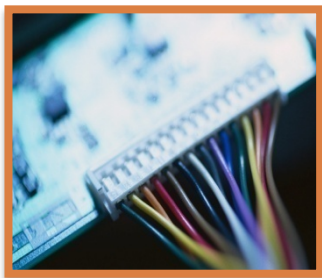
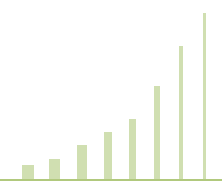
- Brominated flame retardants for fire safety
- Completion fluids for oil drilling
- Ag/Pharma intermediates
- Bromobutyl rubber for tires, hoses, etc.

Emerging Markets:

- Mercury removal pollution control
- Biocides for Food Safety



Increasing Demand for Bromine-Based Fire Safety



Electrical Connectors

- Most complex and fragmented market
- CAGR of 6-7%

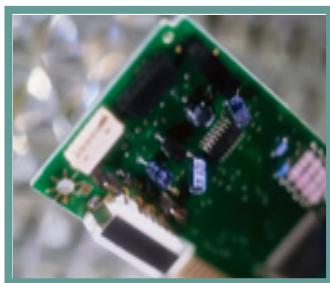


Electronic Enclosures

- High growth in TVs and office equip
- CAGR of 5-6%

Printed Wire Board

- High growth in communication servers
- GDP CAGR



Construction

- Bromine used in rigid insulation board
- Energy conservation (insulation) main driver
- GDP CAGR

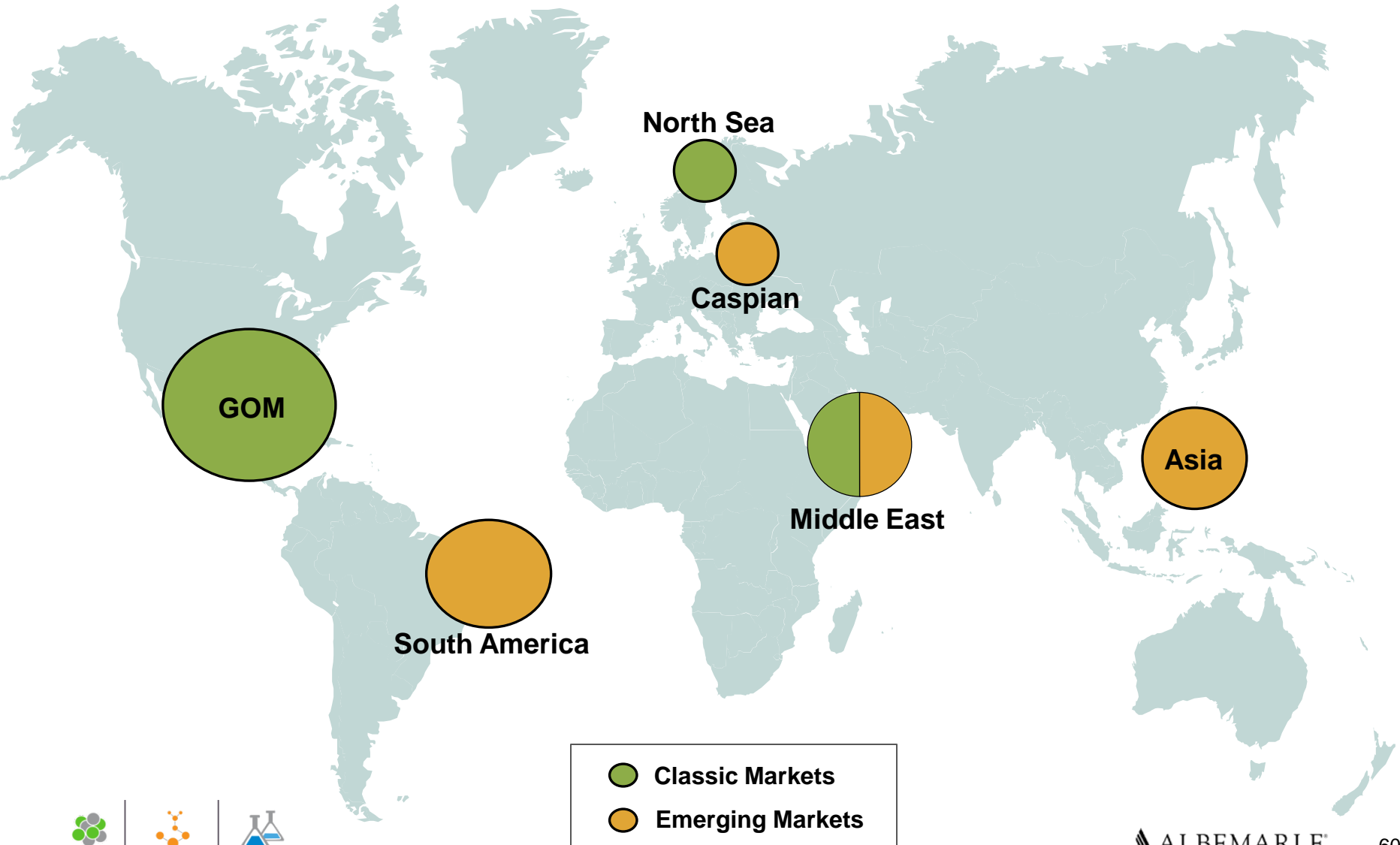


Wire & Cable

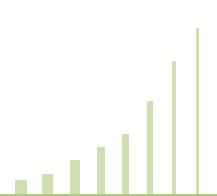
- Infrastructure growth in developing countries
- CAGR of 4-5%



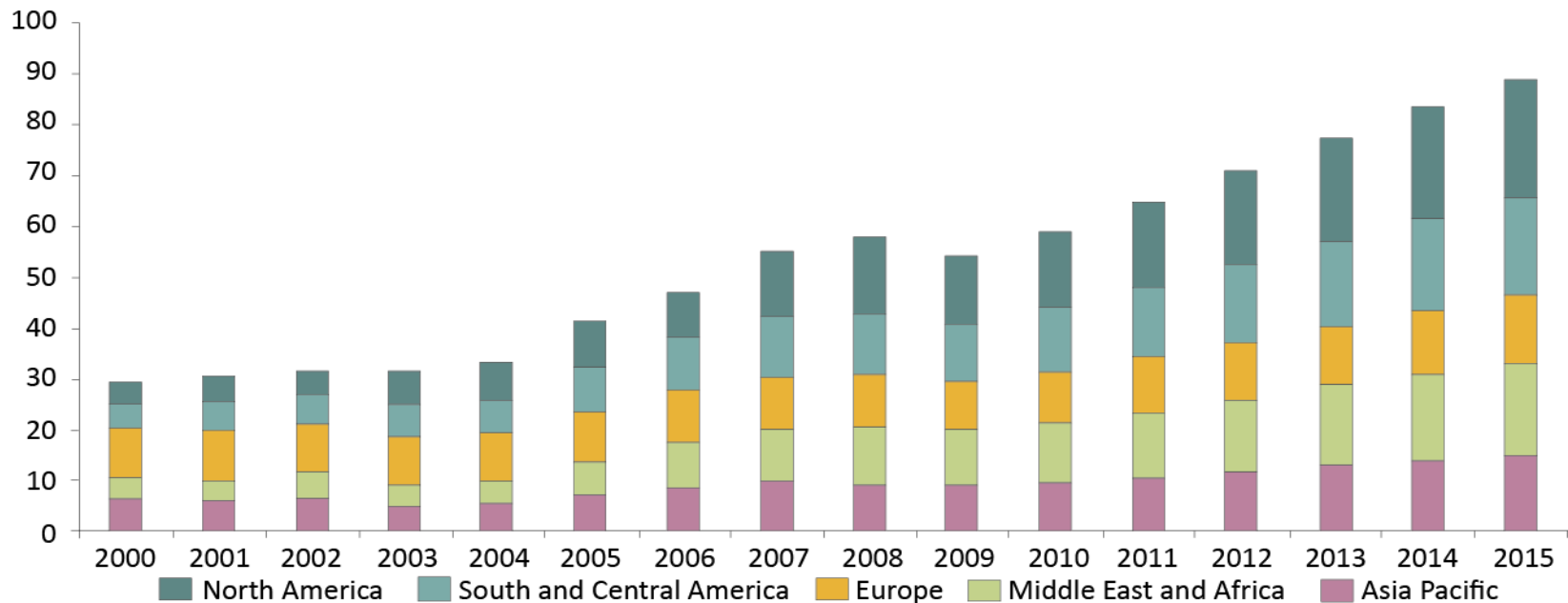
Higher Oil Prices Drive Increased Demand for Bromine-Based Well Completion Fluids



Offshore Drilling Will Resume its Prior CAGR...



Global Offshore Drilling Expenditure (\$B), 2005-2015



Source: GBI Research, Publication Date: May 2010



Multiple Regulatory Drivers Aimed at Controlling Mercury Emissions

US Utility

- Proposed MACT standards released 3/2011



US IRS Section 45

- Placed in service date extended to 12/2011

BRIC (esp China)

- High growth rate of coal-fired utilities
- UNEP goal is binding Hg agreement by 2013
- China MEP directive for 16 trial sites in 2011

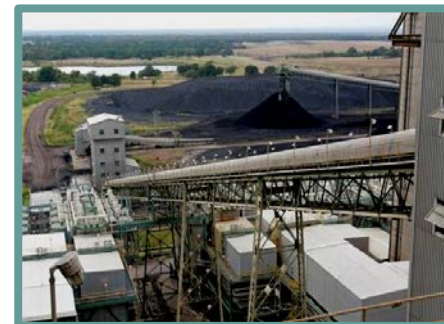
US Industrial Boilers

- Compliance by 2/2014



US Cement

- Compliance by 9/2013



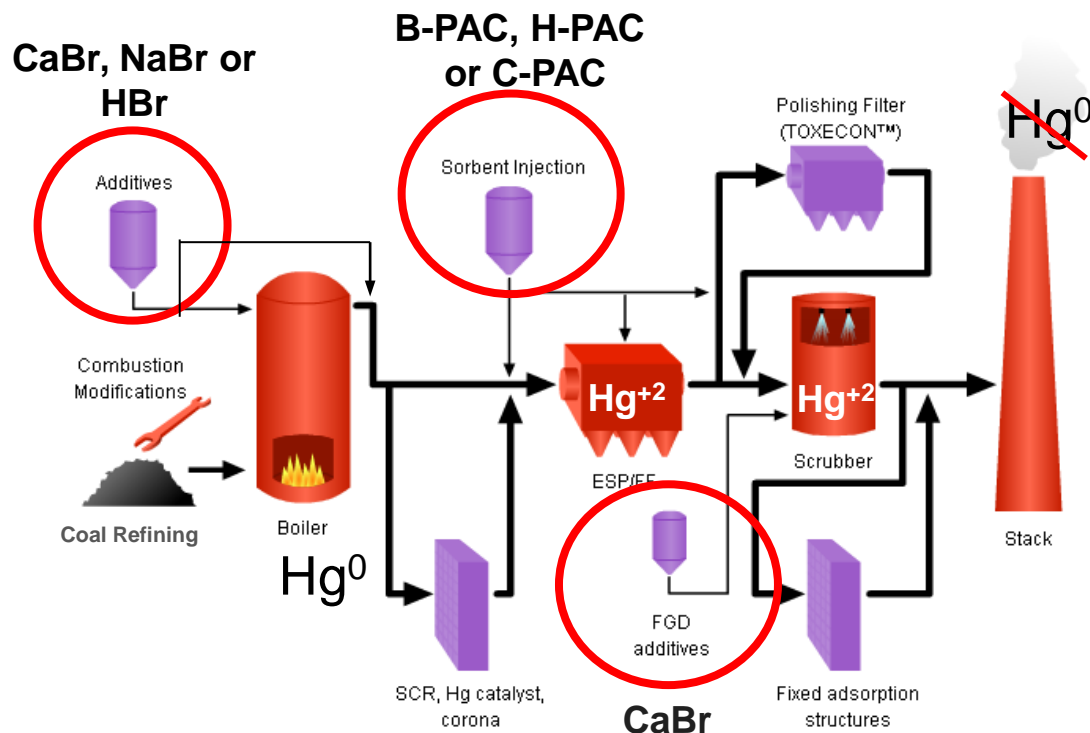
- Main source of mercury emissions is burning of coal
- All U.S. coal dependent industry will be forced to lower emissions via regulations
- International concern on mercury emissions also increasing



Bromine-Based Mercury Control: Most Timely and Cost Effective Approach to the Mercury Challenge

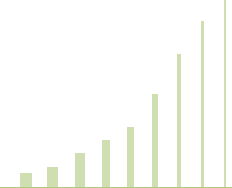
What is bromine doing and where can it be added?

Oxidizing Hg^0 to Hg^{+2} , which is more easily removed from the gases in the combustion stack by adsorption onto solids.



- Bromine-based chemicals (such as CaBr_2) added to coal or to flue gas
- Bromine containing activated carbon sorbents and Hg can be absorbed onto Fly Ash surfaces
- Brominated AC injection can reduce Hg emissions from coal-fired power plant by more than 90%

Bromine – Albemarle's Element



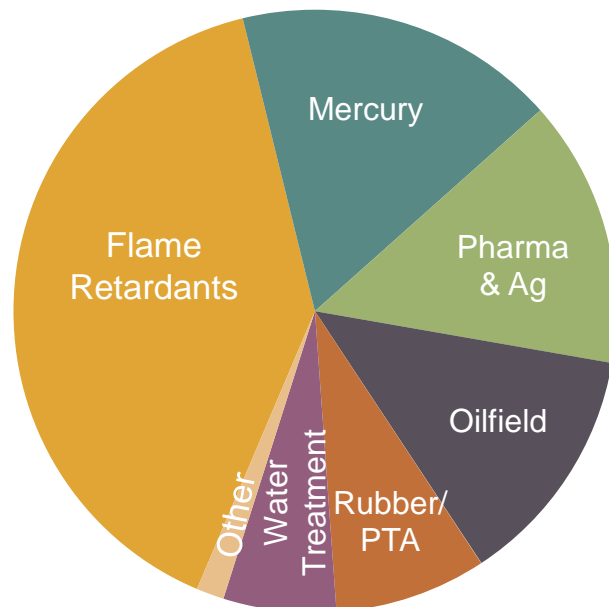
Well Positioned for Growth Because Albemarle.....

- Holds a major position in three “high concentration” bromine locations
- Is the market and innovation leader in the major bromine application: Fire Safety
- Holds the #2 position in bromine Ag and Pharma markets
- Owns diverse and proprietary technology in mercury control
- Has logistical advantage in servicing oilfield markets (Jordan, NA and China)

2015 Global Market

(>\$4B derivatives value)

Relative bromine consumption by application



ORGANOMETALLICS: Albemarle's Foundation Chemistry

Amy Motto,
Vice President
Polyolefin and Chemical Catalysts



Key Ingredients in Diverse and Growing Markets

Albemarle is the global leader in Organometallics

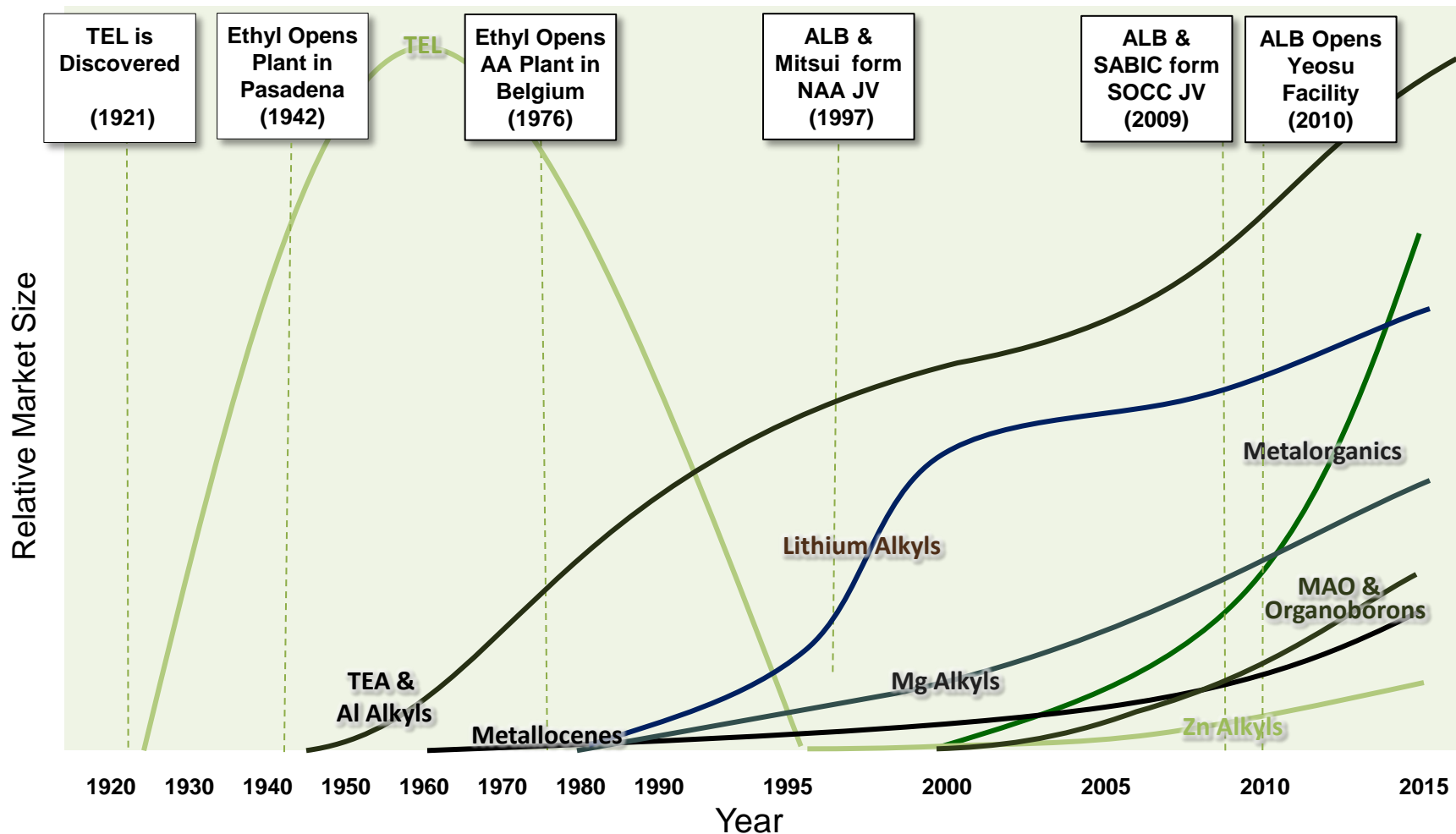
Long history, continuous innovation and new investments

Expanding into developing regions and new markets

Multiple barriers to entry due to complex chemistry and handling



Albemarle Built its Current Polyolefin Catalyst Business on the Strength of its Innovative Chemistries



Albemarle's Organometallics Have a Global Footprint




Existing Facilities

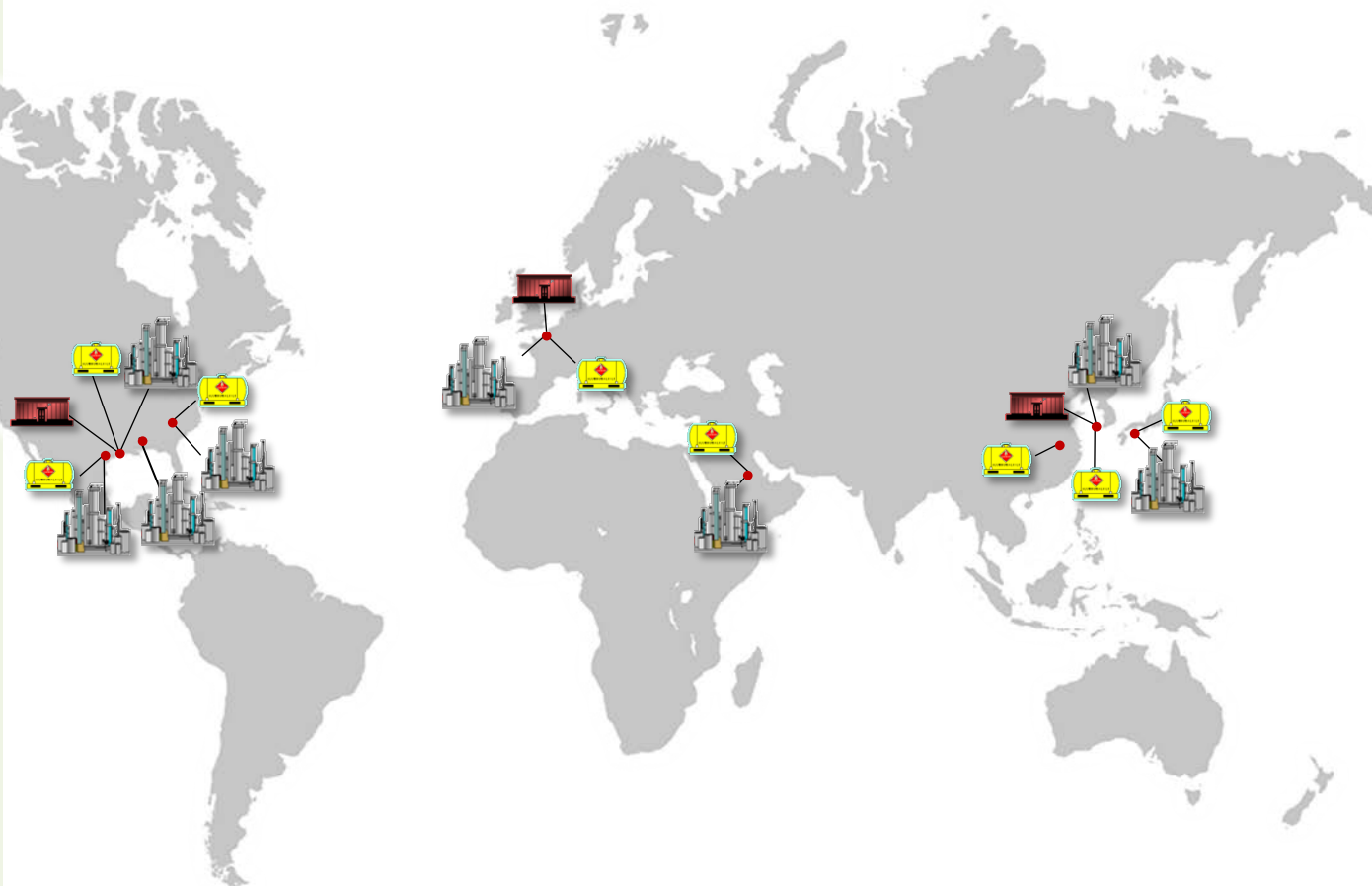
Baton Rouge, LA
Pasadena, TX
Orangeburg, SC
Feluy, Belgium
Osaka, Japan (JV)
Nanjing, China

New Facilities

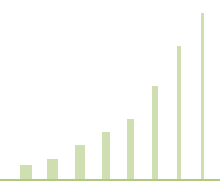
Jubail, KSA (JV)
Yeosu, Korea

Legend

-  Distribution Site
-  R&D Facility
-  Production Facility



Major Growth Markets for Organometallics



Electronics

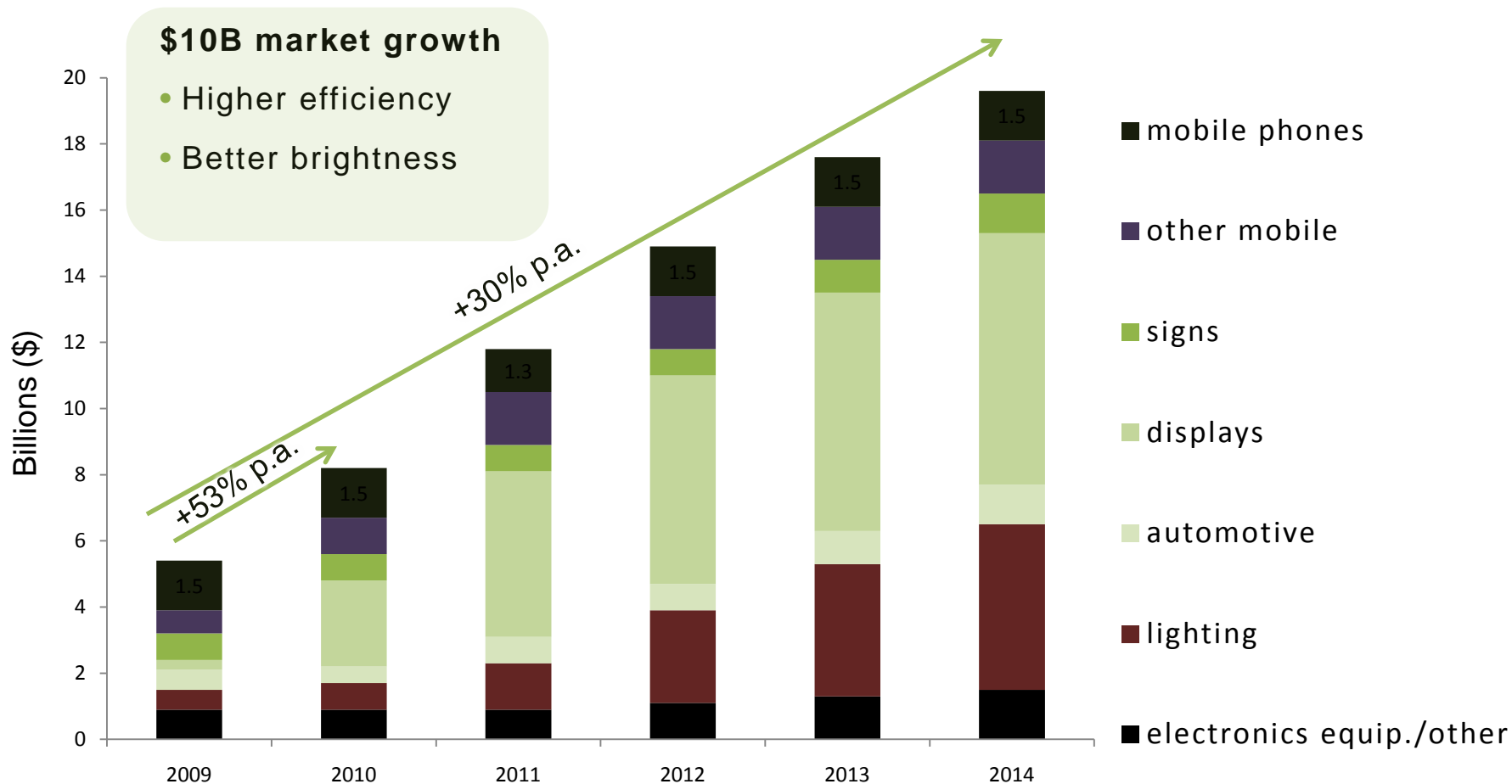
- Opto electronics: LED
- Photo Voltaic: solar panels



Polyolefin Catalysts

- Co-catalysts
- Single Site
- Ziegler-Natta

Electronics: High Brightness Light Emitting Diode (HBLED)



Source: HBLED Market (Strategies Unlimited, June 2010)



Electronics: HLED Technology Depends on Organometallics

Albemarle launches **Pure Growth™** line in 2010

Family of ultra high purity, 99.9999% organometallics

- TriMethyl Aluminum (TMA)
- TriMethyl Gallium (TMG)
- TriEthyl Gallium (TEG)
- TriMethyl Indium (TMI)

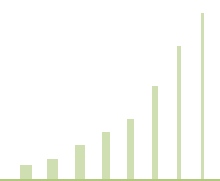
Investing in **Pure Growth™** Production

- Baton Rouge, LA
- Orangeburg, SC
- Pasadena, TX
- Yeosu, Korea

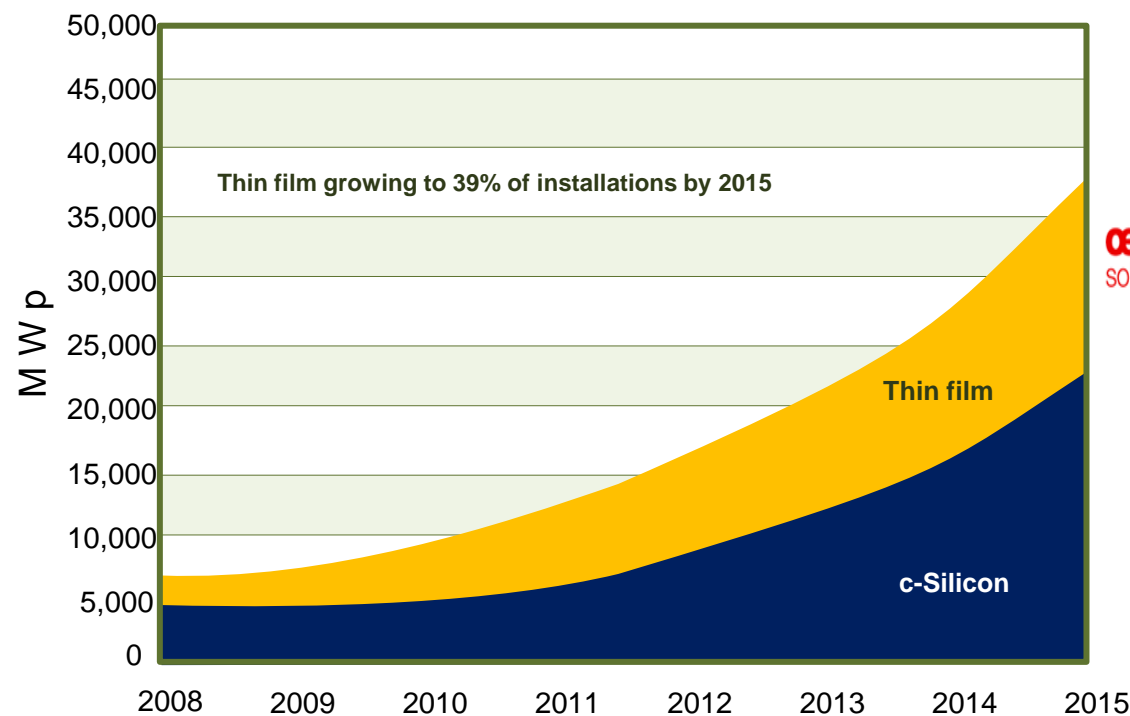
Albemarle is integrated in the basic building blocks that service this sector.



Electronics: Photo Voltaic Technology Dependent on Organometallics



Global PV Module Production



Albemarle is integrated in the basic building blocks that service this sector

Thin Film

cerlikon
solar

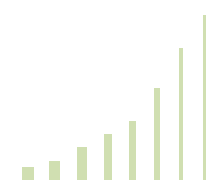
- Amorphous Silicon uses DiEthylZinc (**DEZ**)
- Developing technologies likely to use Organometallics such as CIGS and Organo Photovoltaic

Crystalline Silicon uses **TEA**

Source: Linx-AEI Base-Case Market Forecast – PV Group



Growth Markets for Organometallics



Electronics

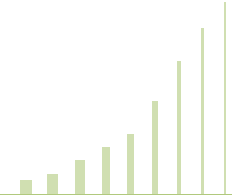
- Opto electronics: LED
- Photo Voltaic: solar panels



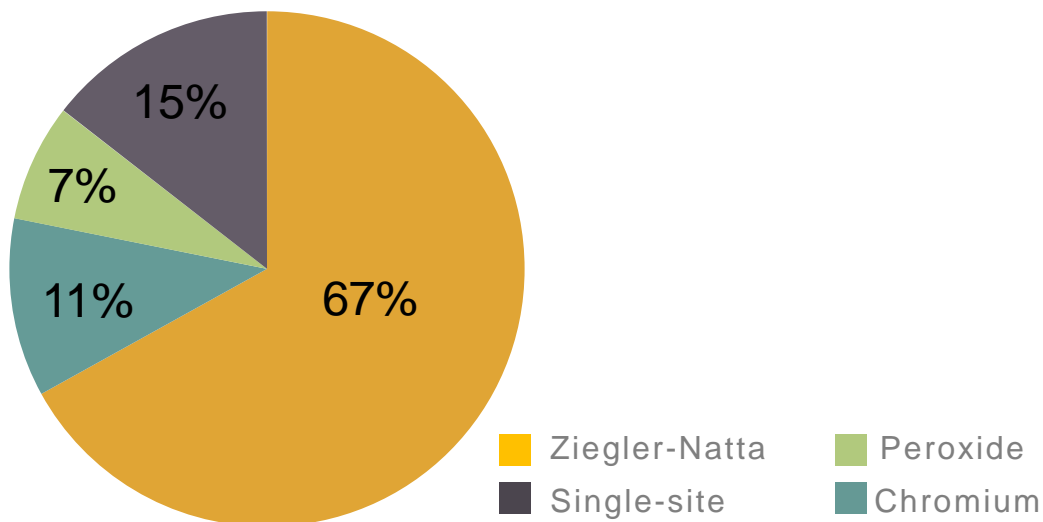
Polyolefin Catalysts

- Co-catalysts
- Single Site
- Ziegler-Natta

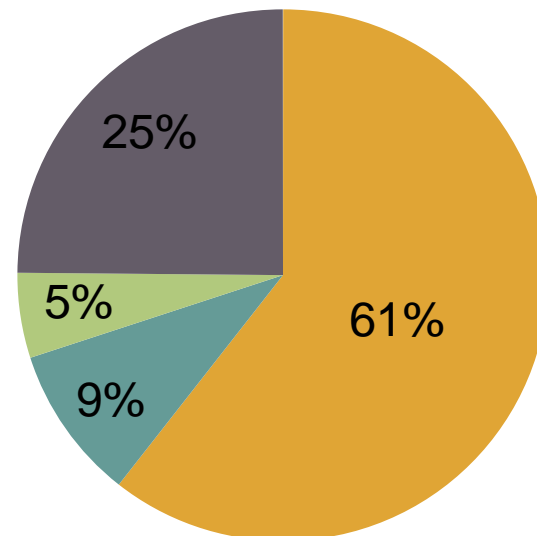
Polyolefin Catalysts



2010 Market: \$2.0 billion



2020 Market: \$3.2 billion

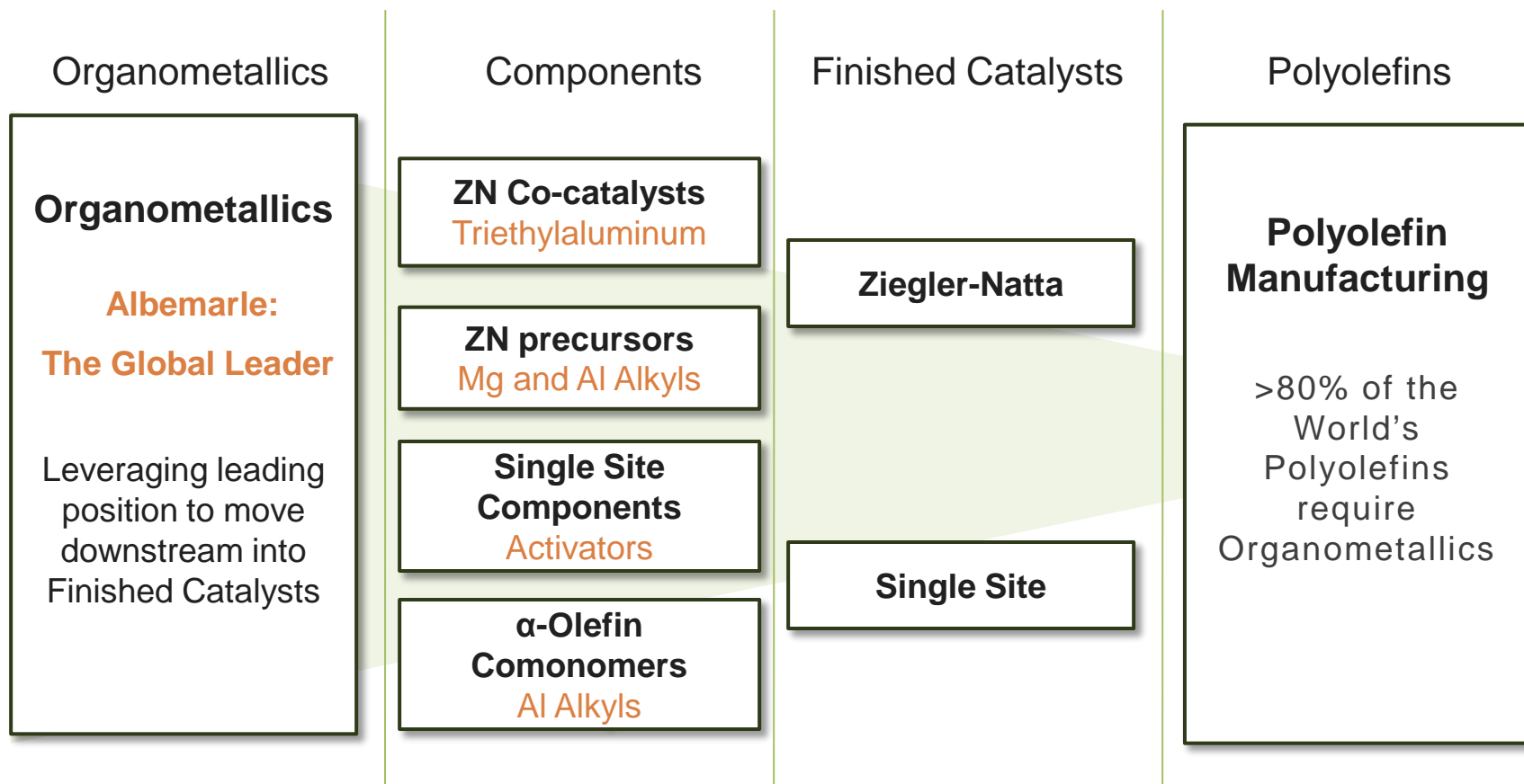


Polyolefins Represent the Largest Commodity Chemicals in the World

Source: CMAI, MAACK

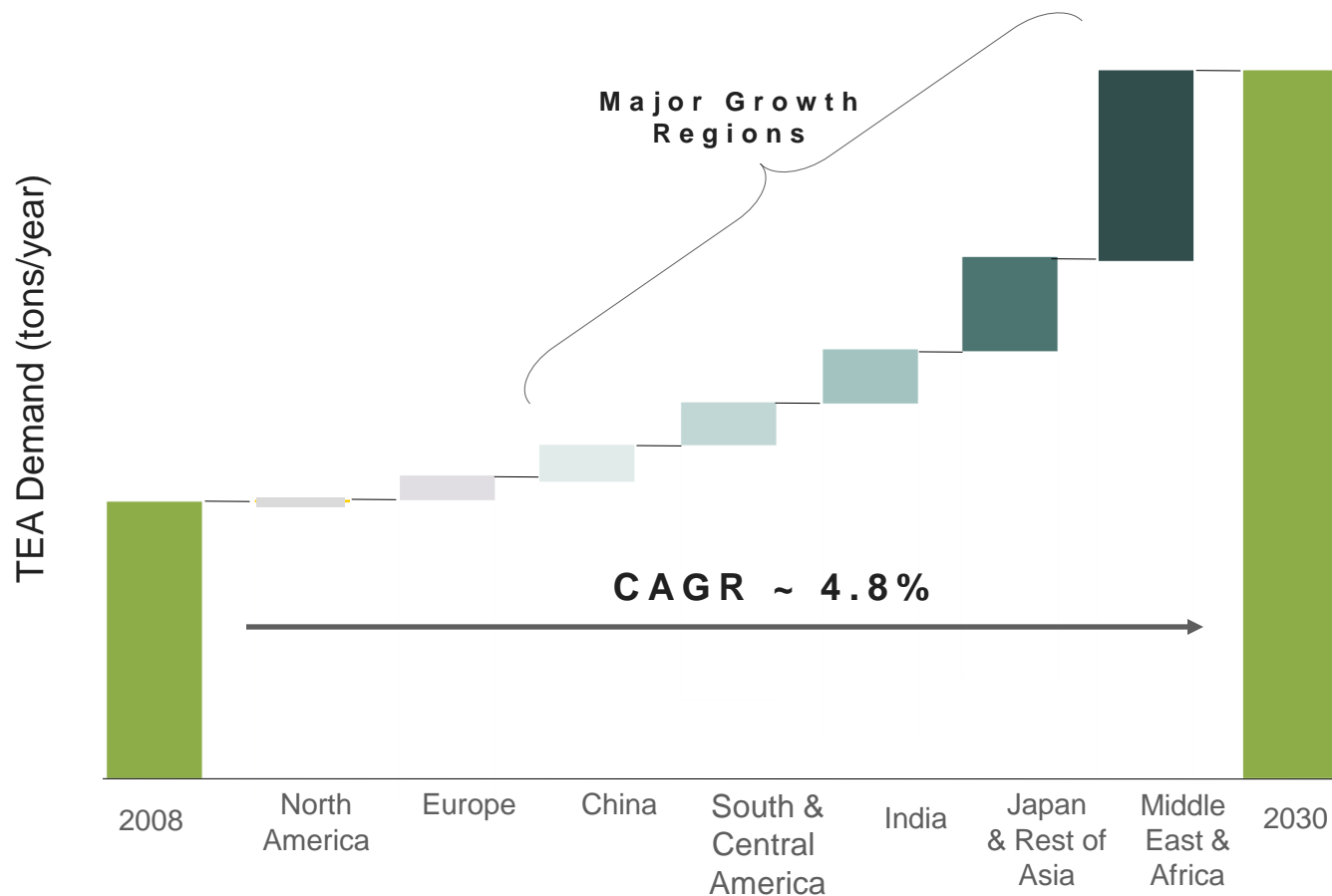


Albemarle Organometallics Play Key Role in Polymerization



Co-catalyst –TEA: Investing to Lead in Developing Markets

ALB addressing ME growth by JV project with Sabic



Source: CMR Feasibility Study



Albemarle in Ziegler-Natta Polyethylene Catalysts

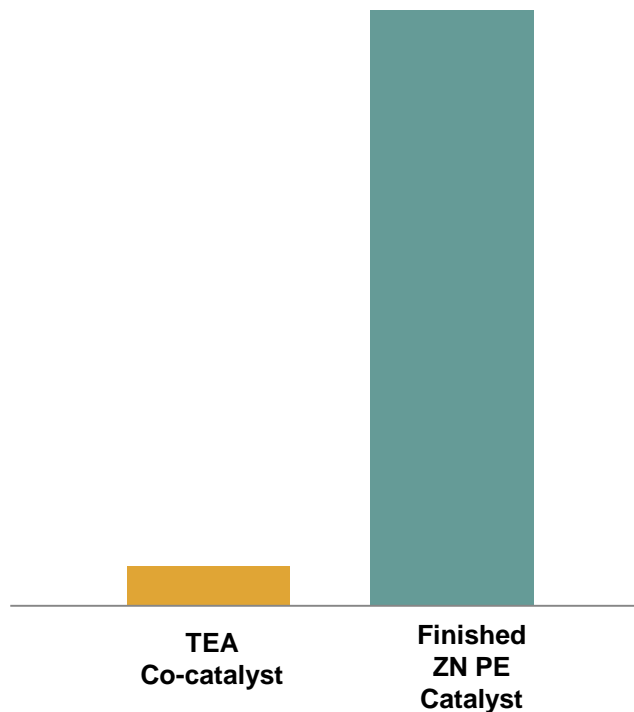
Albemarle begins shift from components supplier to finished catalysts supplier
building upon our strong organometallics leadership

Advantage™ ZN PE Catalysts

- Advantage™ LL series for solution processes
- Advantage™ HD series for slurry processes



Component vs. Finished Catalyst \$ Value / MT PE resin



Delivering Innovative Technology for Single Site Finished Catalysts

Components:

- Experience with >100 Metallocenes

Albemarle: The Global Leader

Activators:

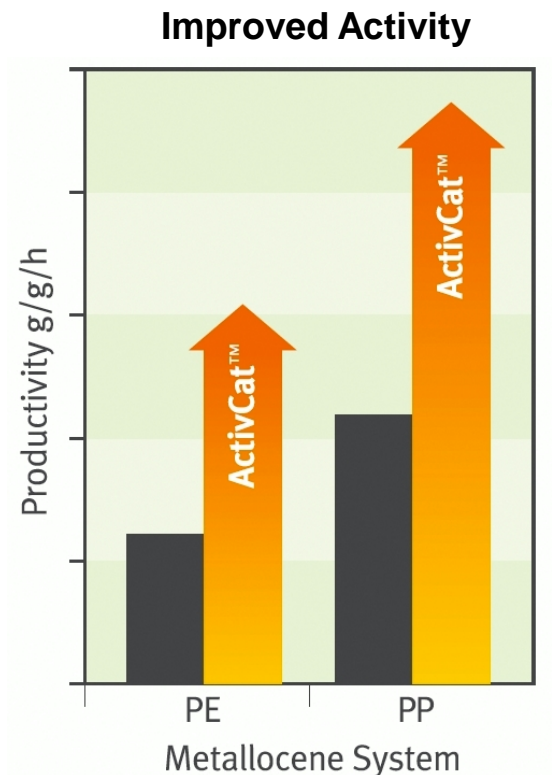
- Methyl Aluminoxane (MAO)
- Organoborons

Albemarle: The Global Leader

Finished Single Site Catalysts:

- Custom SSC
- ActivCat™

Transformational Productivity Improvements
with ActivCat™ Technology



Expanding to Meet These Growth Needs

Building Jubail, KSA

2012

- SOCC JV to produce TEA

Expanding Baton Rouge

- Single Site Catalysts
- Ziegler Natta Catalysts
- Metal Organics

2011

2012

on going

Building Yeosu, Korea

- Single Site Catalysts
- Metal Organics

2012

2012

Expanding Orangeburg & Pasadena

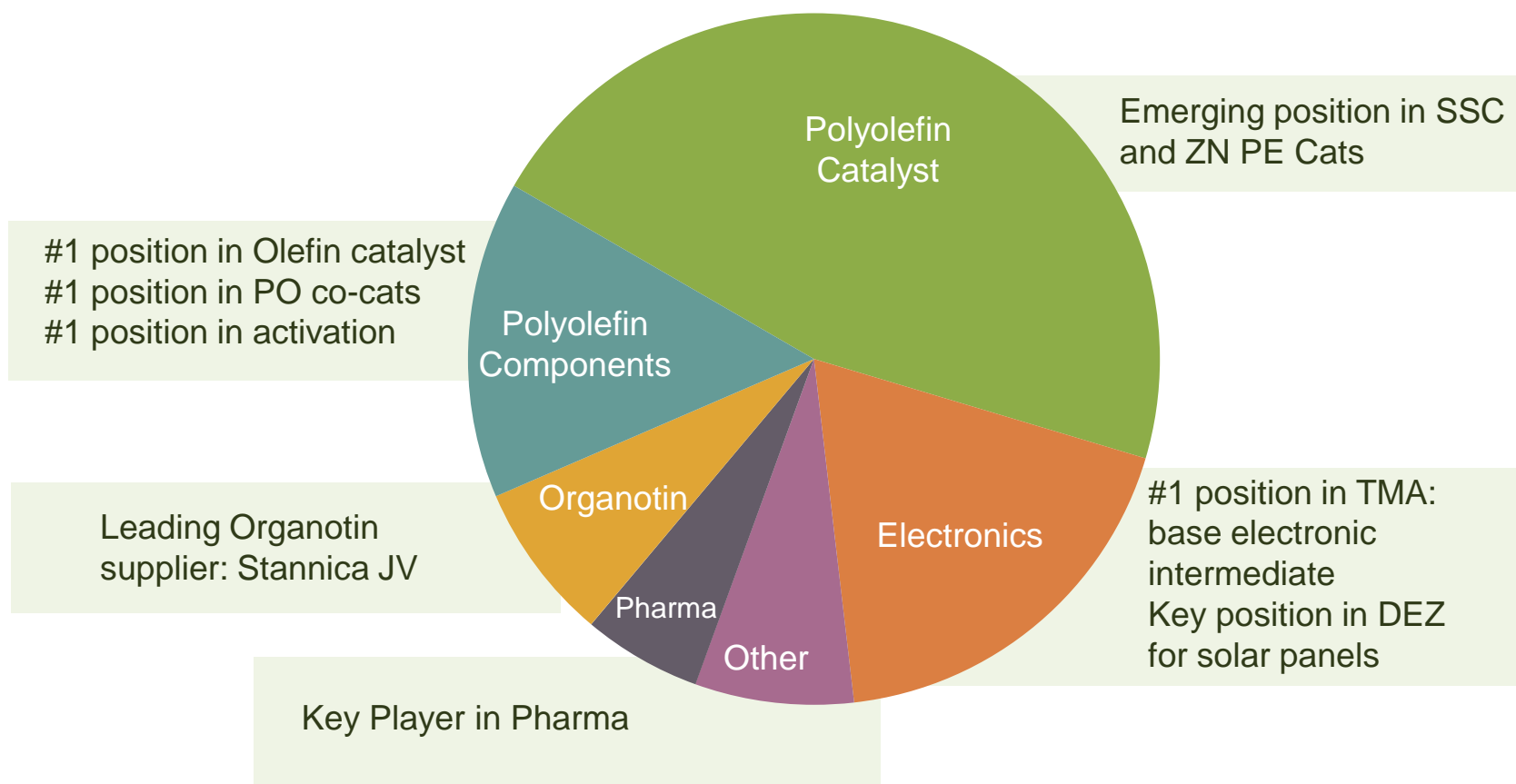
- Organometallics

2012



Organometallics: Major Growth Component of Vision 2015

Market for Organometallics will Exceed \$5B in 2015

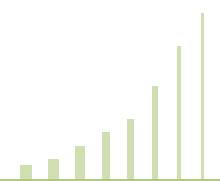


Step-Out Technologies

Dave Clary,
Vice President and
Chief Sustainability Officer



Albemarle's Technologies



Bromination

Zeolite processing

High-energy reactions

Chemical recovery from brine

Specialty polymerizations

Metal solutions

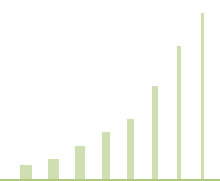
. . . and many others



Albemarle's palette of chemistry and engineering technologies
allows us to create many possibilities



Albemarle's Technology Sweet Spot



- **We own the tough problems**
 - Complex or multi-step processes
 - Products that are dangerous to handle or make
- **We create innovative manufacturing processes**
 - Getting complex products to market quickly
 - Cost advantages
 - Quality advantages
- **Our customers value our products for what they do, not what they are**
 - Tight integration with customers and Albemarle's business groups during development is essential



Gender	Number of people (millions)
Male	2.5
Female	3.5

Specialty chemicals market map

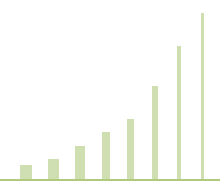
ALB technologies

Chemistries

- 1 Alkylation
- 2 Bromination
- 3 Catalytic hydro de-oxygenation
- 4 Chemical recovery from brines
- 5 High energy reactions
- 6 High purity corrosive or hazardous chemicals
- 7 Low temperature reactions
- 8 Metal oxides and hydroxides
- 9 Metal solutions
- 10 Organometallic synthesis
- 11 Pollutant control
- 12 Production of finished catalysts
- 13 Specialty polymerization
- 14 Zeolite chemistry



Examples of Current Opportunities Built on Selected Technology Platforms



Finished Catalysts & Organometallics

Organometallics for Electronics

Single Site Catalysts

New Chemical Catalysts

Ziegler-Natta PE Catalysts

Syngas Downstream Conversion

Metal Oxides & Hydroxides

New Mineral FRs

Catalytic Pyrolysis

Specialty Zeolites

Heterogeneous FAME Catalysts

Hydrotalcites

Bromination & Bromine Processing

Mercury Removal

Fire Safe Polyurea

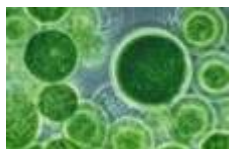
Polymeric Flame Retardants

Food Safety

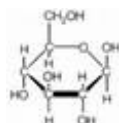
Lithium



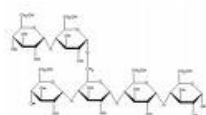
Biodiesel From Vegetable Oils



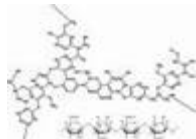
Vegetable oils
(Palm, Sunflower, Algae)



Sugars



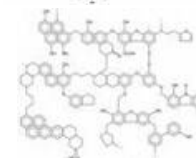
Cellulose
(Starch)



Hemi cellulose
(Leaves)



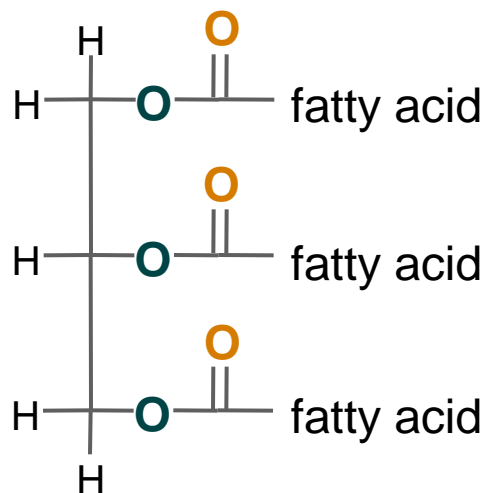
Lignin
(Wood)



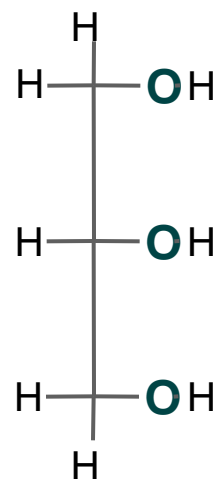
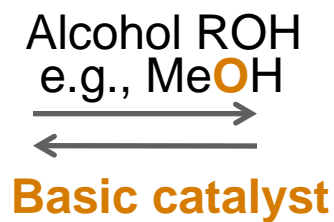
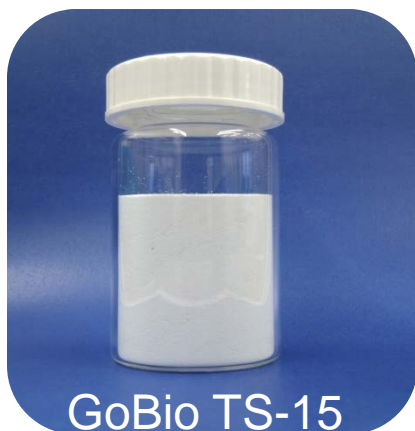
Coal

More
Complex
To Process

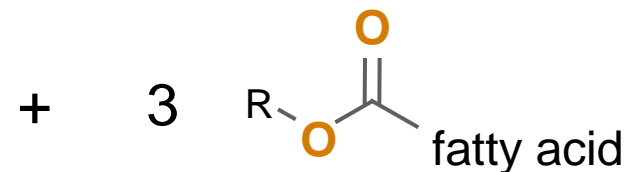
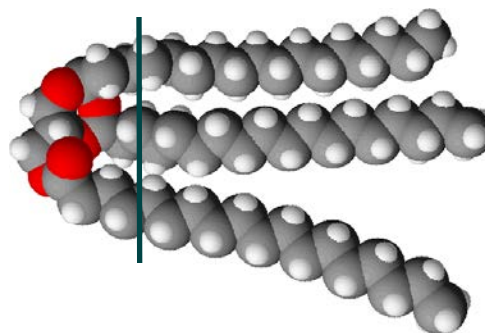
Fatty Acid Methyl Ester (FAME)



Triglycerides



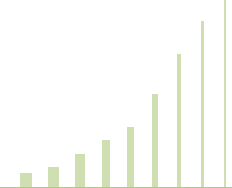
Glycerol/glycerine



FAME = biodiesel



The FAME Market Today

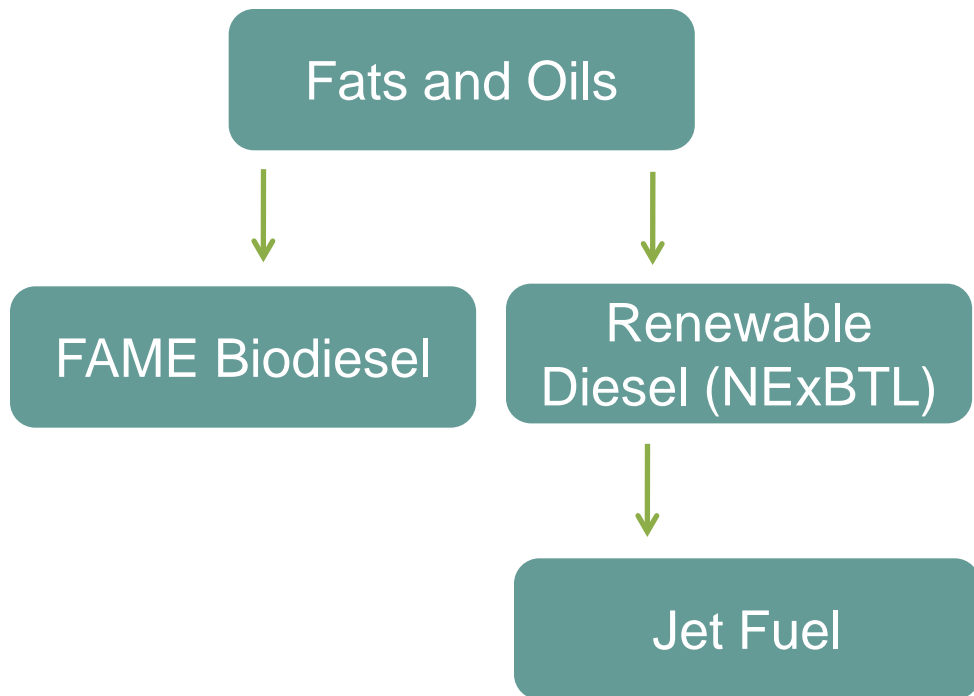


- Several issues with today's commercial process:
 - Catalyst cost
 - Purity requirements for feedstock
 - Product clean-up requirements
 - Limitation to methanol
- We saw the potential to apply our know-how to solve these problems
- Our solution was to replace the standard homogenous catalyst (NaOMe) with a heterogeneous catalyst



Another Possibility From our Technology Palette...

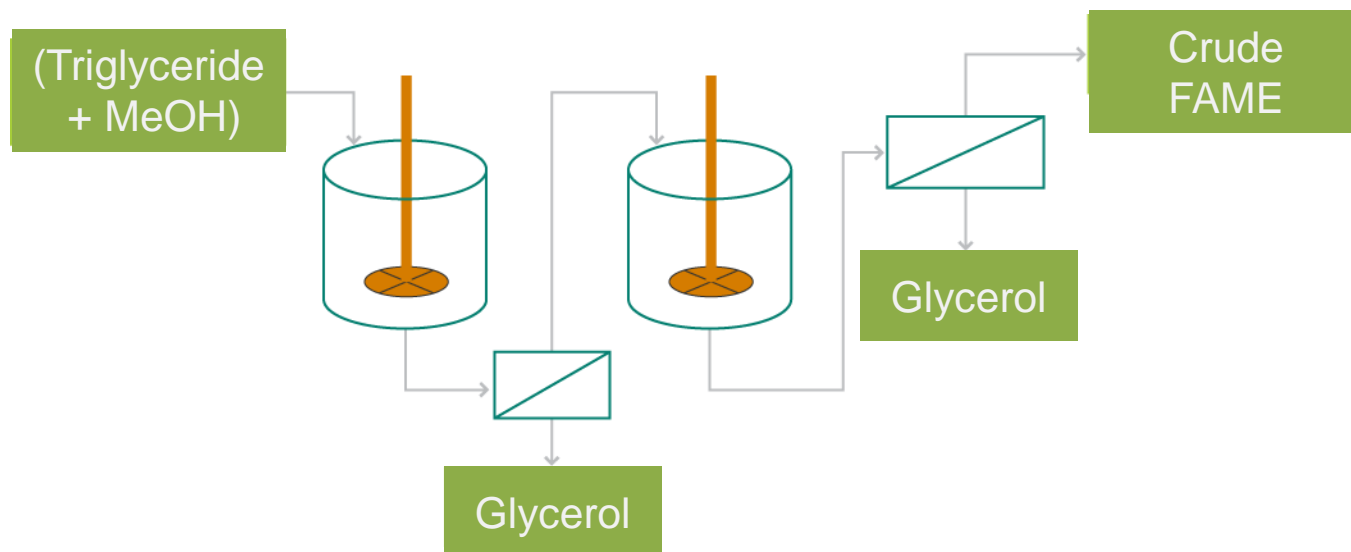
Solid Catalysts for FAME Biodiesel



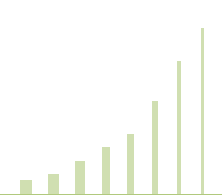
Albemarle supplies catalyst for NExBTL, helping make us the world's largest producer of heterogeneous catalysts for biofuels production

Albemarle's Technology Solution

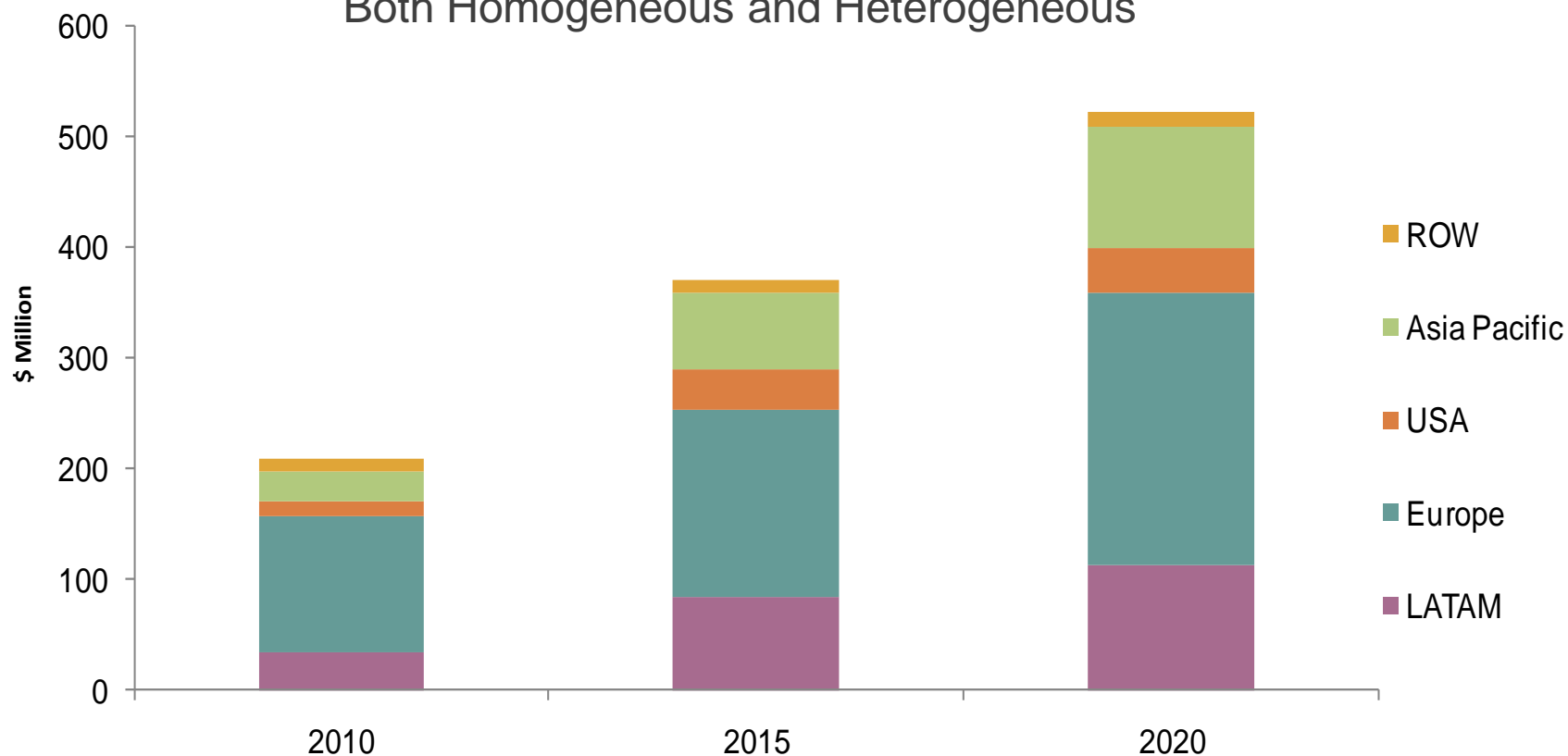
- Solid catalyst TS-15 developed
- ~30% reduction of cost-in-use versus current standard catalyst
- Gives customers the ability to process lower quality feedstocks or use ethanol instead of methanol
- Retrofits of existing FAME plants need only modest capital



Albemarle's Technologies



Total FAME Catalyst Market
Both Homogeneous and Heterogeneous

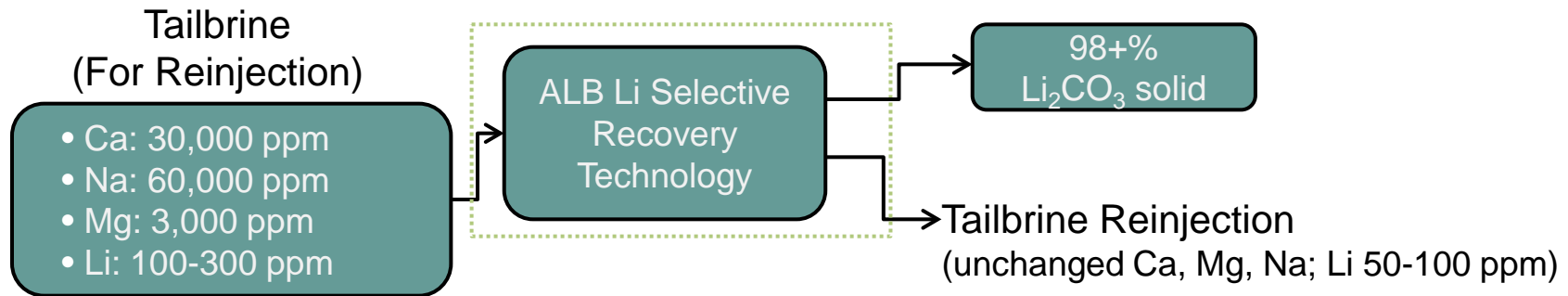
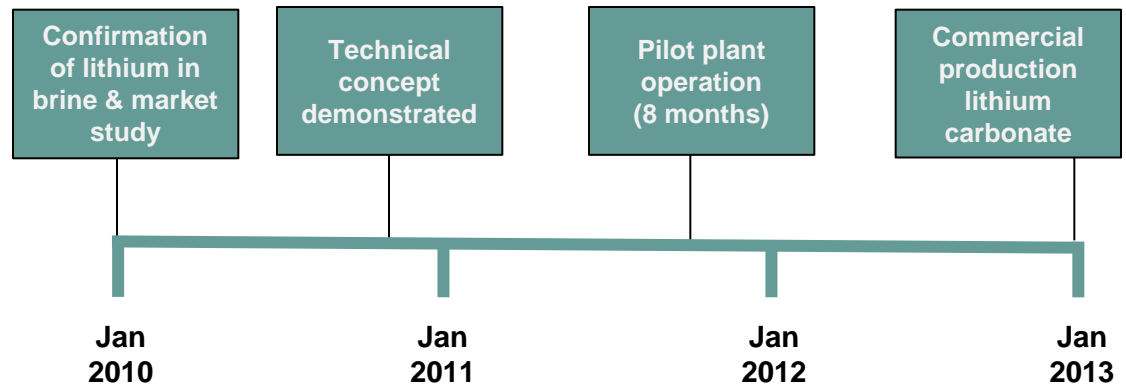


Source: Hart Energy Study 2010 for total veg. oil market, translated to catalyst revenue



Another Opportunity Using our Technologies...

Lithium From our Arkansas Brine



An Attractive Opportunity...



Attractive Markets

- \$800+ million globally with expected 10% global CAGR due to increased demand for batteries in electrical vehicles
- Industry enjoying very good profit margins

Competitors

- Three large brine-based competitors in South America have 70% market share
- Smaller, ore-based suppliers have high costs

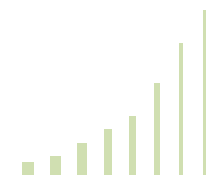
Customers

- U.S., Japan and Korea are 50% of global market today
- U.S. imports 75% of lithium needs; Japan and Korea import 100% of lithium needs

Our Criteria

- We must approach market leaders' cost position
- Ability to offer security of supply to customers is a plus

...Which Opens the Door to Other Markets



PRODUCTS	SELECTED MARKETS			
Lithium Carbonate 80,000 MT/Yr	 Li-Ion-Batteries	 Glass & Ceramics	 Aluminum	
Lithium Hydroxide 9,000 MT/Yr	 Grease	 Li-Ion-Batteries		
Lithium Specialties 6,000 MT/Yr	 Absorption Chillers	 Agrochemicals	 Li-Ion-Batteries	
Lithium Metal & Butyl Lithium 1,000 MT/Yr	 Elastomers	 Lithium Batteries	 Pharmaceuticals	 Al - alloys

... And Creates a Solid Foundation for Growth

Our structured approach to growth:

... based on a tight fit with our technology base

... giving us speed-to-market and cost advantages

... continuously improving our success rate

Every step broadens our technology foundation and
introduces us to new market opportunities