



KOPPERS

INVESTING IN OUR PEOPLE-BASED CULTURE

*B. Riley FBR Institutional Investor Conference
May 23, 2018*

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Forward Looking Statement

Certain statements in this presentation are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 and may include, but are not limited to, statements about sales levels, acquisitions, restructuring, profitability and anticipated synergies, expenses and cash outflows. All forward-looking statements involve risks and uncertainties. All statements contained herein that are not clearly historical in nature are forward-looking, and words such as "believe," "anticipate," "expect," "estimate," "may," "will," "should," "continue," "plans," "potential," "intends," "likely," "outlook," "guidance," "forecast," or other similar words or phrases are generally intended to identify forward-looking statements. Any forward-looking statement contained herein, in press releases, written statements or documents filed with the Securities and Exchange Commission, or in Koppers communications with and discussions with investors and analysts in the normal course of business through meetings, phone calls and conference calls, regarding expectations with respect to sales, earnings, cash flows, operating efficiencies, restructurings, the benefits of acquisitions and divestitures or other matters as well as financings and debt reduction, are subject to known and unknown risks, uncertainties and contingencies. Many of these risks, uncertainties and contingencies are beyond our control, and may cause actual results, performance or achievements to differ materially from anticipated results, performance or achievements. Factors that might affect such forward-looking statements, include, among other things, the impact of changes in commodity prices, such as oil and copper, on product margins; general economic and business conditions; potential difficulties in protecting our intellectual property; the ratings on our debt and our ability to repay or refinance outstanding indebtedness; our ability to operate within the limitations of our debt covenants; potential impairment of our goodwill and/or long-lived assets; demand for Koppers goods and services; competitive conditions; interest rate and foreign currency rate fluctuations; availability of key raw materials and unfavorable resolution of claims against us, as well as those discussed more fully elsewhere in this presentation and in documents filed with the Securities and Exchange Commission by Koppers, particularly our latest annual report on Form 10-K and subsequent filings. Any forward-looking statements in this presentation speak only as of the date of this presentation, and we undertake no obligation to update any forward-looking statement to reflect events or circumstances after that date or to reflect the occurrence of unanticipated events.

Company Overview

Investment Thesis

Global leader in oil and water-borne preservatives
serving many market applications for treated wood

Successfully transitioning from a business built on producing carbon pitch to serve global aluminum industry into **an enterprise centered on the preservation and enhancement of wood**

Knowledge of wood preservation is a core competency

- ✓ Largest integrated producer of wood treatment preservatives for North American railroad crosstie industry
- ✓ Performance Chemicals wood treatment preservatives serve various residential, industrial and agricultural markets

Strategy continues to build momentum; continue to evaluate opportunities to optimize product portfolio and capital structure

- ✓ Systematic approach of reducing dependence on highly cyclical industries tied to oil and aluminum
- ✓ Improved CMC profitability by streamlining footprint/cost structure

Wood Treatment Technologies Are At The Heart Of Our Value Creation Model



Business Strategy

Strengthen Balance Sheet and Improve Financial Flexibility

- Reduced total debt by ~\$174M from 12/31/14 through 12/31/17
- Reduced net leverage from 5.1 at 12/31/14 to 3.1 at 12/31/17
- Improved liquidity by ~\$187M from 12/31/15 to 12/31/17
- Refinanced debt in February 2017:
 - Extended senior notes from 2019 to 2025; moved to unsecured status
 - Increased senior notes from \$300M to \$500M
 - Reduced coupon rate from 7.875% to 6.0%
 - Eliminated term loan and mandatory annual amortization of \$30M
 - Extended revolving credit facility from 2019 to 2022

Improve Profitability and Expand Margin

- Restructured CMC operating footprint and improved segment Adj. EBITDA margins from low of 1.5% in 2015 to 13.7% in 2017
- Divested small, non-core, margin-dilutive businesses
- Reduced exposure to low-margin Chinese business by exiting two joint-ventures
- Increased presence in higher-margin Performance Chemicals business from 21% in 2014 pro-forma sales compared with 28% in 2017
- Improved consolidated Adj. EBITDA margins from 7.5% in 2014 to 13.6% in 2017

Repositioned as a Leader in Wood Treatment Technologies

- Niche markets with small number of sizable competitors
- Tighter focus around core competency of wood allows for better stability and visibility of earnings stream
- Investing to serve increased demand of copper-based wood preservative products; improve distribution of oil-borne wood preservative products
- Wood treatment technology sales <50% in 2013 vs. 69% in 2017
- Pursue growth opportunities through selective tuck-in acquisitions primarily in wood related markets

At-A-Glance



- Leading integrated global provider of oil and water-borne preservatives serving various market applications of treated wood
- De-emphasizing CMC business
- Global geographic footprint: 30 locations across North America, South America, Asia, Europe and Australia

Selected Product and Brand Overview



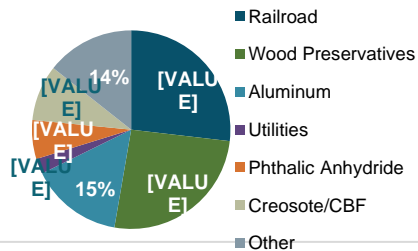
Pre-Treated Crossies



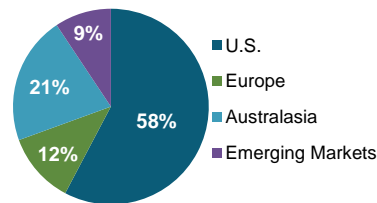
Treated Crossies with End Plates



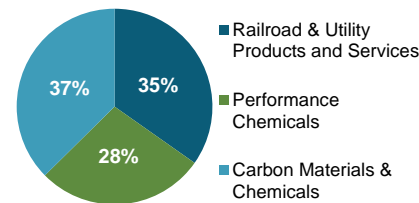
Sales by End Market



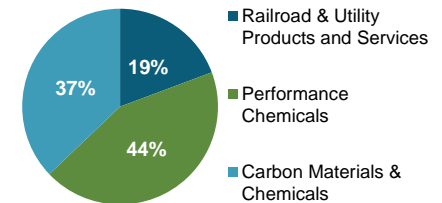
Sales by Geography



Sales by Segment



Adj. EBITDA by Segment¹



2017 Sales: \$1,476M

2017 Adj EBITDA: \$200M

1) Excludes corporate unallocated amounts

Segment Overview

Unique Product & Service Portfolio; Niche End Market Focus			
	Railroad and Utility Products and Services (RUPS)	Performance Chemicals (PC)	Carbon Materials and Chemicals (CMC)
Key 2017 Financials ^{1,2}	<ul style="list-style-type: none"> • Net Sales: \$513 Million • Adj. EBITDA: \$39 Million • Adj. EBITDA Margin: 7.5% 	<ul style="list-style-type: none"> • Net Sales: \$411 Million • Adj. EBITDA: \$88 Million • Adj. EBITDA Margin: 21.4% 	<ul style="list-style-type: none"> • Net Sales: \$552 Million • Adj. EBITDA: \$75 Million • Adj. EBITDA Margin: 13.7%
Highlights	<ul style="list-style-type: none"> • Largest Supplier Of Railroad Crossties To North American Railroads 	<ul style="list-style-type: none"> • Global Leader In Developing, Manufacturing & Marketing Wood Preservation Chemicals/ Technologies 	<ul style="list-style-type: none"> • Largest Supplier Of Creosote To North American Railroad Industry • Vertically Integrated With RUPS
Products & Services	<ul style="list-style-type: none"> • Railroad Crossties • Railroad Bridge Services • Rail Joint Bars • Utility Poles 	<ul style="list-style-type: none"> • Wood Preservation Chemicals • Coatings • Water Repellants • Pigmented Stains • Fire Retardants 	<ul style="list-style-type: none"> • Carbon Pitch • Creosote • Carbon Black Feedstock • Naphthalene • Phthalic Anhydride
Market Position Market Growth Key Market Drivers	<ul style="list-style-type: none"> • #1 • 1-3% • Crosstie Replacement Cycle 	<ul style="list-style-type: none"> • #1 • 2-4% • Repair & Remodel; Existing Home Sales 	<ul style="list-style-type: none"> • #1 or #2 • 1-3% • Global Industrial Growth • Crosstie Replacement Cycle

¹ Excludes corporate unallocated amounts

² Adjusted EBITDA margin defined as Adjusted EBITDA as a percentage of GAAP sales

KOPPERS 
ZERO
harm

Zero Harm – Q1 2018



23 of **31** operating locations worked free of OSHA recordable accidents.

PC
Auckland
Christchurch
Darlington
Geelong
Hubbell
Marlow
Mt. Gambier
Rock Hill

CMC
Clairton
Follansbee
KCCC
KJCC
Mayfield
Nyborg

RUPS
Ashcroft
Denver
Florence
Grafton
Huntington
North Little Rock
Railroad Structures
Somerville
Takura

Key Investment Highlights

Key Investment Highlights



Leading Global Producer of Wood Preservation and Enhancement Products

Vertically Integrated, Strategically Located Footprint

Stable Over Cycle; Steady Gains in Attractive End Markets

Long-Term Contracts with Key Customers

Successfully Repositioned the Business

Leading Global Producer of Wood Preservation and Enhancement Products



Products Play Critical Role In End Application; Often Have No Substitutes

	Product	Market Position
Wood-Related	North American Crosstie	#1
	North American Wood Treating Chemicals	#1
	North American Creosote	#1
	Australian Creosote	#1
	Australian Utility Poles	#1
	Australian / New Zealand Wood Treating Chemicals	#1
	South / Central American Wood Treating Chemicals	#1
Other	Australian Carbon Pitch ¹	#1
	North American Merchant Phthalic Anhydride ²	#1

¹ Australian carbon pitch includes New Zealand market

² Reflects merchant market sales

Vertically Integrated, Strategically Located Footprint



- Well positioned to capitalize on strong market presence
- Significantly improved efficiency since consolidating coal tar distillation facilities from 11 to 4 over 3-year period (2014-2016)
- CMC processes coal tar into creosote consumed by RUPS for treatment of railroad cross ties

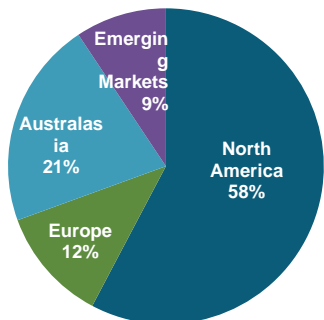
Vertically Integrated Operations

Coal Tar Distillate (CMC)

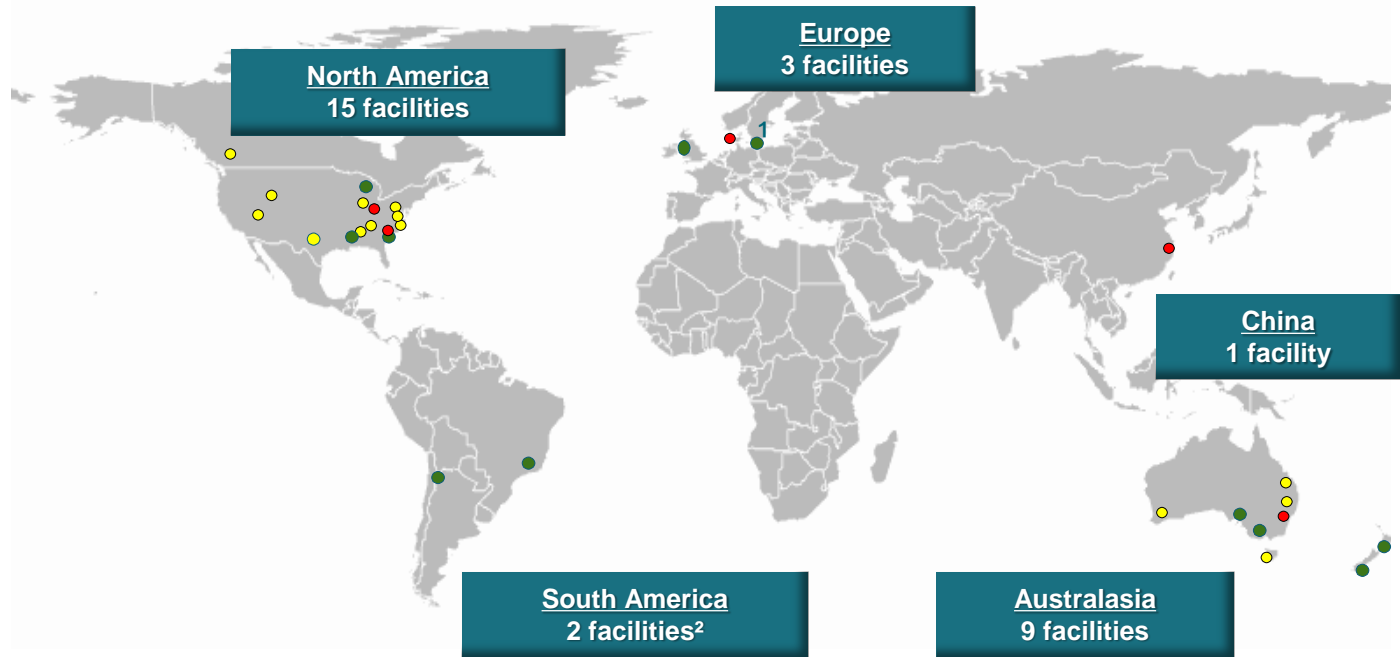
Creosote (CMC)

Railroad Crossties (RUPS)

2017 Sales by Geography



Globally Advantaged Operating Footprint



¹ Represents a toll producing facility

² Both are toll producing facilities

- Carbon Materials and Chemicals
- Railroad and Utility Products and Services
- Performance Chemicals

Railroad & Utility Products and Services: Near-term Challenges; Stable Over Cycle



- Near-term, railroad customers scaled back and focusing on cutting operating costs and working capital
- According to the AAR, Class I railroads shifted from being highly dependent on oil and gas, and coal mining industries to being more correlated to trade relations, commodity prices and interest rates
- Rail traffic through March quarter was largely positive
 - ✓ Total U.S. carload traffic was down 0.3% from prior year period
 - ✓ Intermodal units were up 5.5% from the prior year quarter
 - ✓ Combined U.S. traffic for carloads and intermodal units was 2.6% higher than prior year
- Overall, 2018 demand for crossties expected to be relatively flat to slightly up over prior year
- Production constraint challenging; however, expect to have continued positive impact on commercial pricing
 - ✓ Less available inventory of untreated crossties from saw mills
 - ✓ Lumber prices increased dramatically due to wet winter affecting production, combined with higher demand from other industries and overseas markets

Performance Chemicals: Steady Gains in Attractive End Markets

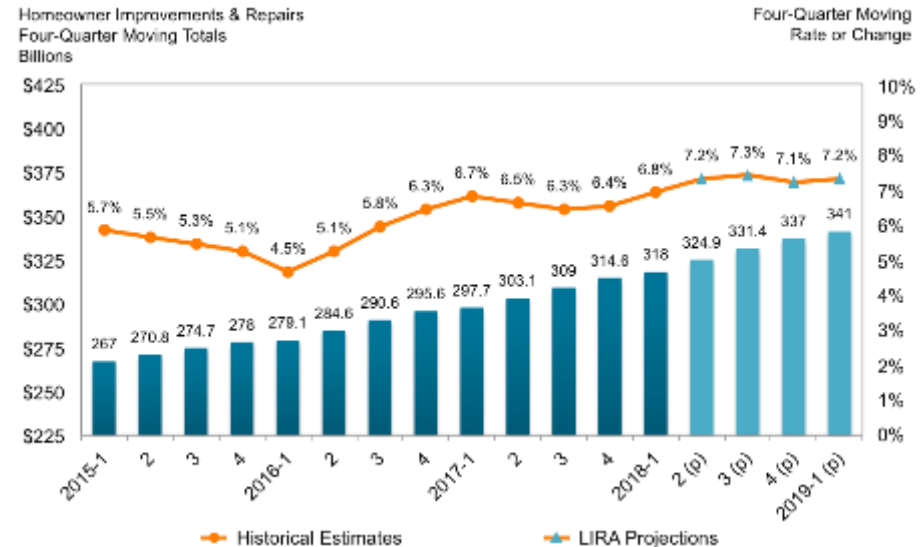


Growth Drivers: Existing Home Sales; Repair & Remodel Activity

- Market for existing homes continues to show mixed signals
- According to NAR, existing home sales up 1.1% in March
 - ✓ Grew for second consecutive month, but 1.2% below prior year
 - ✓ Lagging inventory levels and affordability constraints kept sales activity below prior year levels
 - ✓ Healthy economic conditions creating considerable demand for purchasing homes, prospective buyers having difficulty finding affordable homes
 - ✓ Multiple winter storms and unseasonably cold weather contributed to decrease in contract signings in northeast
- Per LIRA (reported by Joint Center for Housing Studies of Harvard University), spending on value-adding home improvement and repairs in U.S. expected to grow 7.2% through March 2019
- Conference Board Consumer Confidence Index® increased in to 128.7 in April, up from 127.0 in March
 - ✓ Remains strong and suggests that economy will continue expanding at solid pace

U.S. Homeowner Improvements & Repairs

Leading Indicator of Remodeling Activity — First Quarter 2018



Notes: Historical estimates since 2015 are produced using the LIRA model until American Housing Survey data become available

Source: Joint Center for Housing Studies of Harvard University

Long-Term Contracts with Key Customers



Key Customers Include Railroad, Wood Preservation & Other Blue-Chip Industrial Companies

- Approximately 70% of North American RUPS sales are served under long-term contracts
- Currently supply and have contracts with all 7 North American Class I railroads
- Supplies 9 of 10 largest lumber treating companies in U.S., in addition to top 3 lumber treating companies in Canada
- Deploys a key risk mitigation strategy to hedge underlying copper prices, a key raw material, associated with processing PC products
- 100% of creosote supply for RUPS comes from CMC

Successfully Repositioned Business

Strengthening Our Portfolio

Strategic Initiatives	Actions Taken
Reduce China Risk Profile	<ul style="list-style-type: none"> • Restructured loan agreements in China; renegotiated soft pitch agreement with Nippon Steel and received \$30M (July 2015) • Divested TKK, a minority-held joint venture (November 2016) • Exited 2 of 3 joint ventures in China
Streamline CMC Business	<ul style="list-style-type: none"> • Ceased distillation or sold 7 of 11 facilities by year-end 2016 • CMC revenues decreased from two-thirds to approx. one-third of consolidated sales • Expect to improve CMC profitability to 9-15% adjusted EBITDA through economic cycle by year-end 2018; 2017 EBITDA at 13.7%
Aggressively Reduce Debt <i>Long-term Goal: 2.0x – 3.0x Net Leverage Ratio</i>	<ul style="list-style-type: none"> • Strong operating cash flow; \$100M-\$120M+ annually • Reduced debt to \$677M at 12/31/17, compared with \$851M at 12/31/14 • Lowered net leverage ratio to 3.1x at 12/31/17 and 3.7x at 12/31/16, compared with 4.7x at 12/31/14 (per bank agreements)
Secure Long-term Business of Key Customer Base	<ul style="list-style-type: none"> • Extended contracts with the BNSF, CSX, NS & UP into 2020-2026 • Signed long-term rail joint agreements with NS (2019) & UP (2021) • Extended supply agreements with 2 largest PC customers • Signed 2 long-term contracts expected to increase phthalic sales volume ≥ 20% YOY
Divest Non-core Assets	<ul style="list-style-type: none"> • CMC – Port Clarence & Scunthorpe distillation facilities (July 2016); TKK (Nov 2016) • RUPS – N.A. utility business (Jan 2015); KSA concrete tie joint venture (July 2015); Wood Protection dimensional lumber-treating business (Oct 2016)

Key Investment Highlights



Leading Global Producer of Wood Preservation and Enhancement Products

Vertically Integrated, Strategically Located Footprint

Stable Over Cycle; Steady Gains in Attractive End Markets

Long-Term Contracts with Key Customers

Successfully Repositioned Business

Strategic Rationale: Cox Industrial

Strengthens Market Position as Vertically Integrated Wood Treatment Leader



Advances Strategic Transformation

- Creates leading utility pole and wood treatment producer; re-entering market as second-largest supplier to U.S. utility pole industry; better scale to compete
- Represents strategic milestone; advances strategy of being a vertically integrated, high-value global supplier of wood-based technologies to infrastructure markets
- Aligned with long-term goal of developing unique end-to-end solutions from wood preservation chemicals, to finished products, to end-of-life disposal

Maintains Attractive Financial Profile

- Vertically integrated model provides cost savings synergies and incremental sales opportunities; transaction structure provides tax benefits
- Pro-forma net debt to adjusted EBITDA ratio of < 4x; projected at $\leq 3.5x$ by 12/31/18; goal of 2x-3x net leverage ratio over long-term; not to exceed 4x on pro-forma basis with acquisitions
- Accretive to earnings in 2018; expect additional \$0.15-\$0.20 in adjusted EPS in 2018; annualized run rate of \$0.40-\$0.50 in adjusted EPS in 2019; increased 2018 guidance to ~\$1.9B in sales and ~\$240M in adjusted EBITDA

Provides Growth Opportunities

- Provides scale in large and attractive U.S. utility pole market; ~\$850M estimated opportunity
- Potential for growth in range of geographies, end-markets and product categories
- Strategically located facilities to enable shipments throughout U.S. and other key markets

Brings Additional Leadership Capabilities

- Established leaders; culture of growth and innovation
- Strong operational expertise; consistent with Zero Harm focus
- Track record of disciplined execution and value creation

Combining Industry Leaders in Wood Treatment Market



- Global leader in oil and water-borne preservatives serving many market applications for treated wood
- Largest integrated producer of wood treatment preservatives for N.A. railroad crosstie industry
- Global geographic footprint across North America, South America, Asia, Europe and Australia



- Largest supplier of utility poles in eastern U.S. and major supplier in entire U.S.
- Supplies power distribution and transmission poles and pilings to investor-owned utilities, electric cooperatives and municipalities.
- 8 manufacturing locations, 3 peeling facilities and 19 reload yards in U.S.; market leadership position with further opportunities for growth

Global Leader in High Value, Vertically Integrated, Wood-Based Solutions Market

Transaction Overview: Cox Industrial

Compelling Valuation & Terms

Consideration

- Acquired Cox Industrial for ~\$200M in cash; funded with debt financing; credit amendment in place; increased revolver to \$600M from \$400M; \$100M secured term loan

Tax Benefits & Synergies

- Structured as acquisition of stock with mutual 338(h)(10) election, resulting in ~\$24M of Net Present Value tax benefits
- Estimated total synergies of at least \$5M annually from overhead cost savings, along with incremental sales opportunities for PC & CMC businesses through vertically integrated supply relationships

Attractive Valuation

- ~8x TEV based on Cox Industrial standalone 2018E Adjusted EBITDA of ~\$25M, excluding synergies and discounted future tax benefits
- ~6x TEV, net of synergies and discounted future tax benefits
- Accretive to earnings in 2018; expect acquisition to contribute adjusted EPS of \$0.15-\$0.20 in 2018 and \$0.40-\$0.50 in 2019

Timing

- Signed and closed acquisition on April 10, 2018

Growth-Focused, Strategic Investment



Strategic Criteria

- Directly in or adjacent to core wood protection
- Growth at/above total company or catalyst to achieve
- Strong management; track record of performance
- Good fit for implementing Zero Harm practices
- Complementary to existing businesses
- Leverage existing core competencies

Target Acquisition Sweet Spot

A target diagram consisting of four concentric circles of increasing size and decreasing opacity from the center outwards. The center is a solid white circle. A blue arrow points from the left towards the center, and a green arrow points from the right towards the center.

Financial Criteria

- Adjusted EBITDA multiple, net of synergies and tax benefits, < trading multiple for KOP shares
- IRR and ROI > WACC
- Accretive to existing KOP margin; clear path to margin expansion
- Reasonable investment level in R&D and capex
- Strong free cash flows

Business Overview: Cox Industrial

Corporate Governance & Operations



Corporate Governance

- Cox Industrial re-named *Utility and Industrial Products*
- Mikee Johnson as Business Unit Leader
- Reports directly to CEO Leroy Ball
- Joins Koppers Executive Leadership team

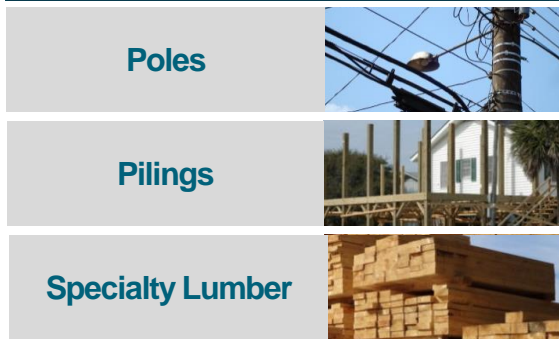
Operations

- Approximately 360 employees
- Current production facilities will remain operational
- Capital investments will be made as needed in areas such as safety, maintenance, productivity and growth

Strong Presence in Utility Pole Treatment



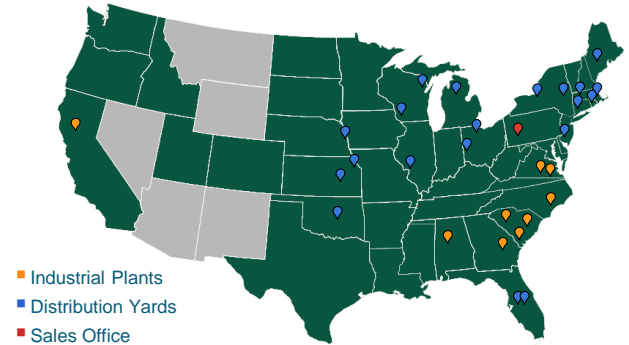
Key Products



Value Added Services

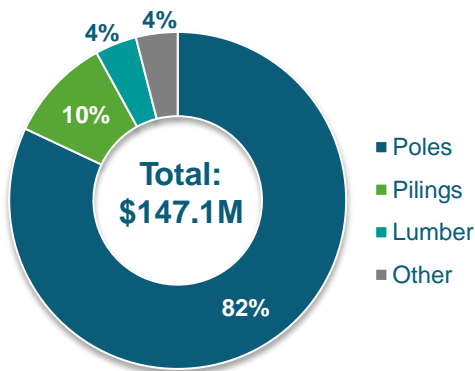
- National Wood Sourcing
- Sustainable Management Systems
- Storm Response
- Recovery Services

Geographic Footprint

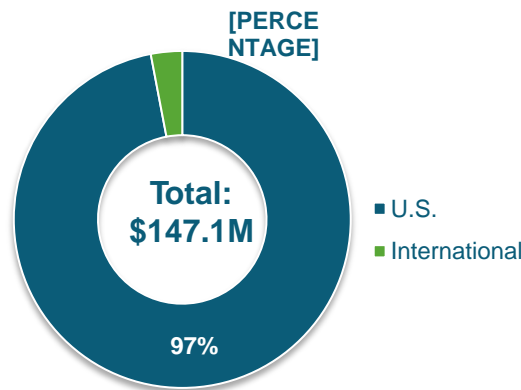


2017 Revenues

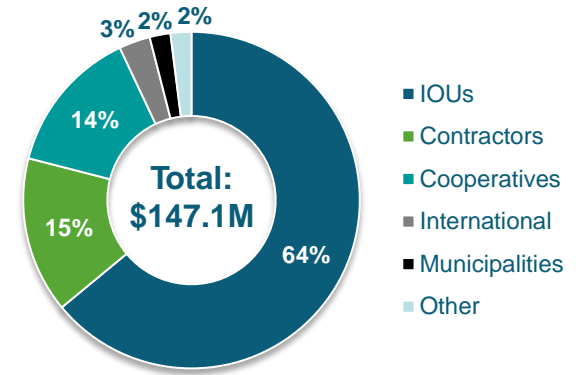
By Product Type



By Geography



By Customer Type



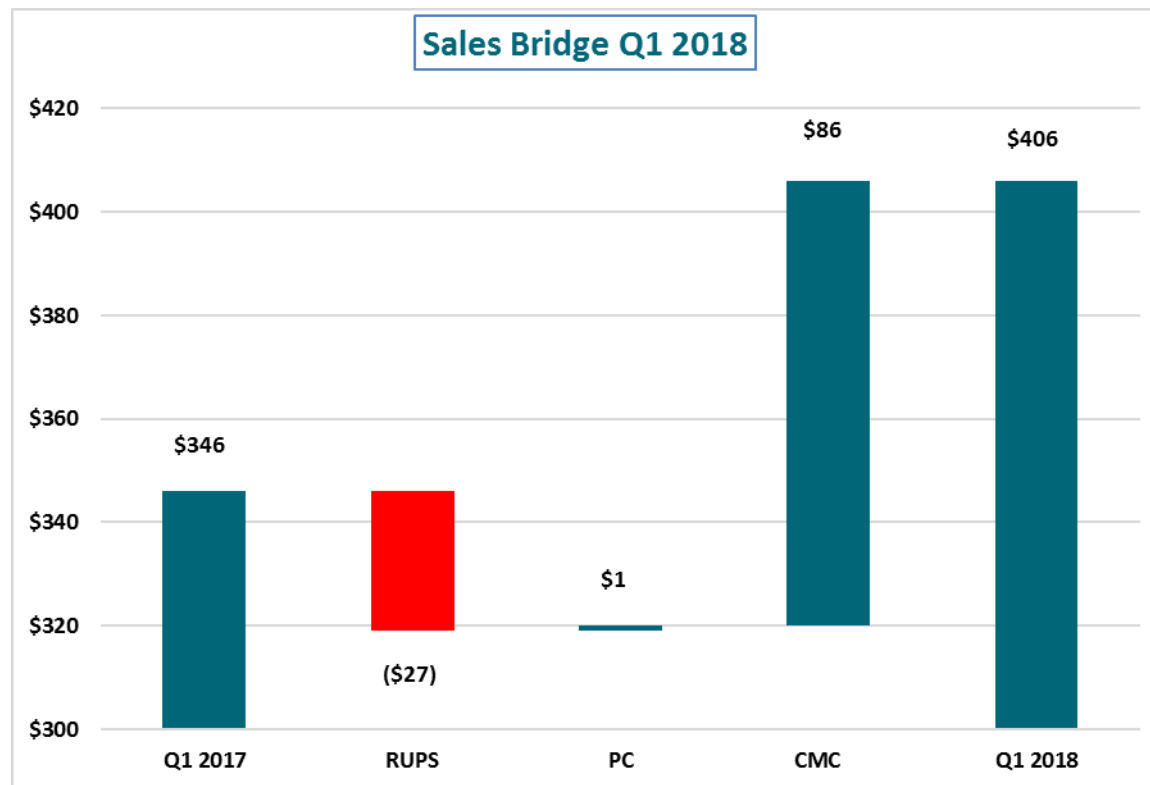
Appendix

Q1 2018 Results

Q1 Sales of \$406M; Higher CMC Sales Offset RUPS Weakness



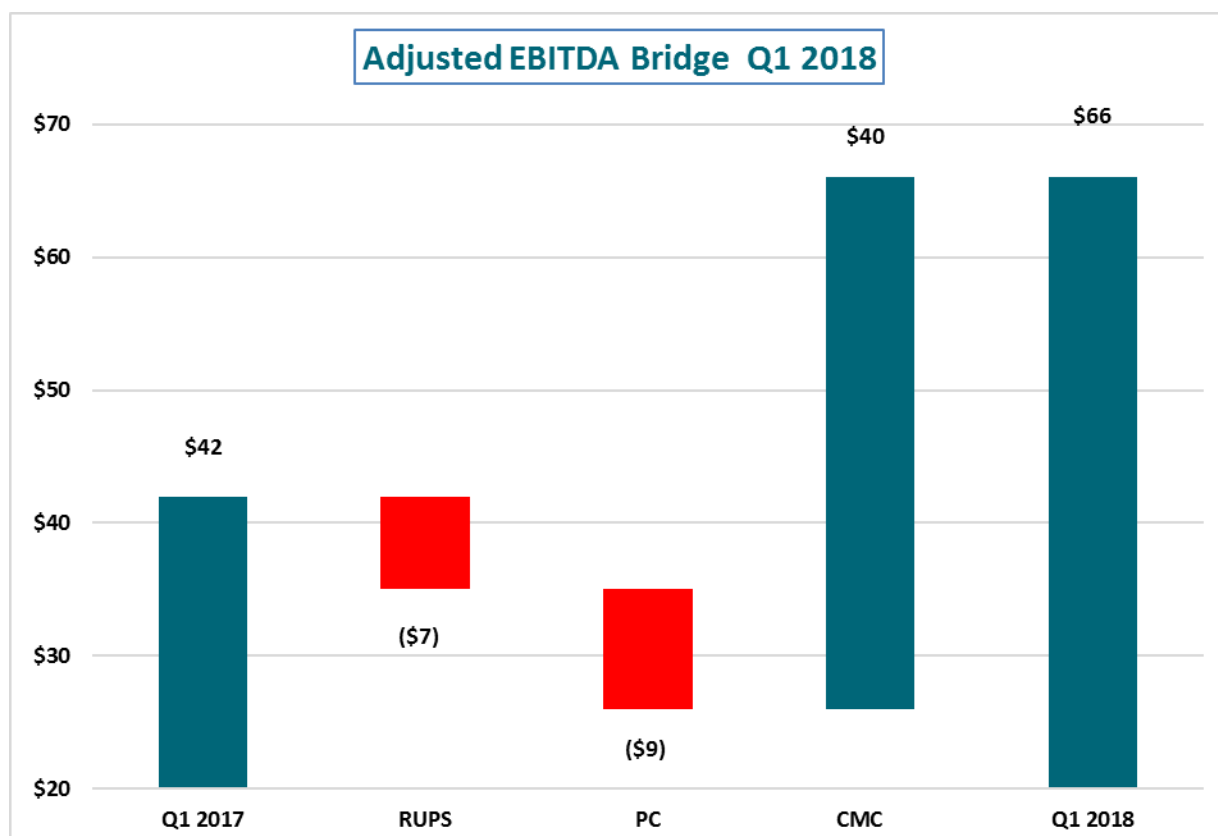
(\$ in millions)



Q1 Adjusted EBITDA of \$66M; CMC Driving Higher Profitability



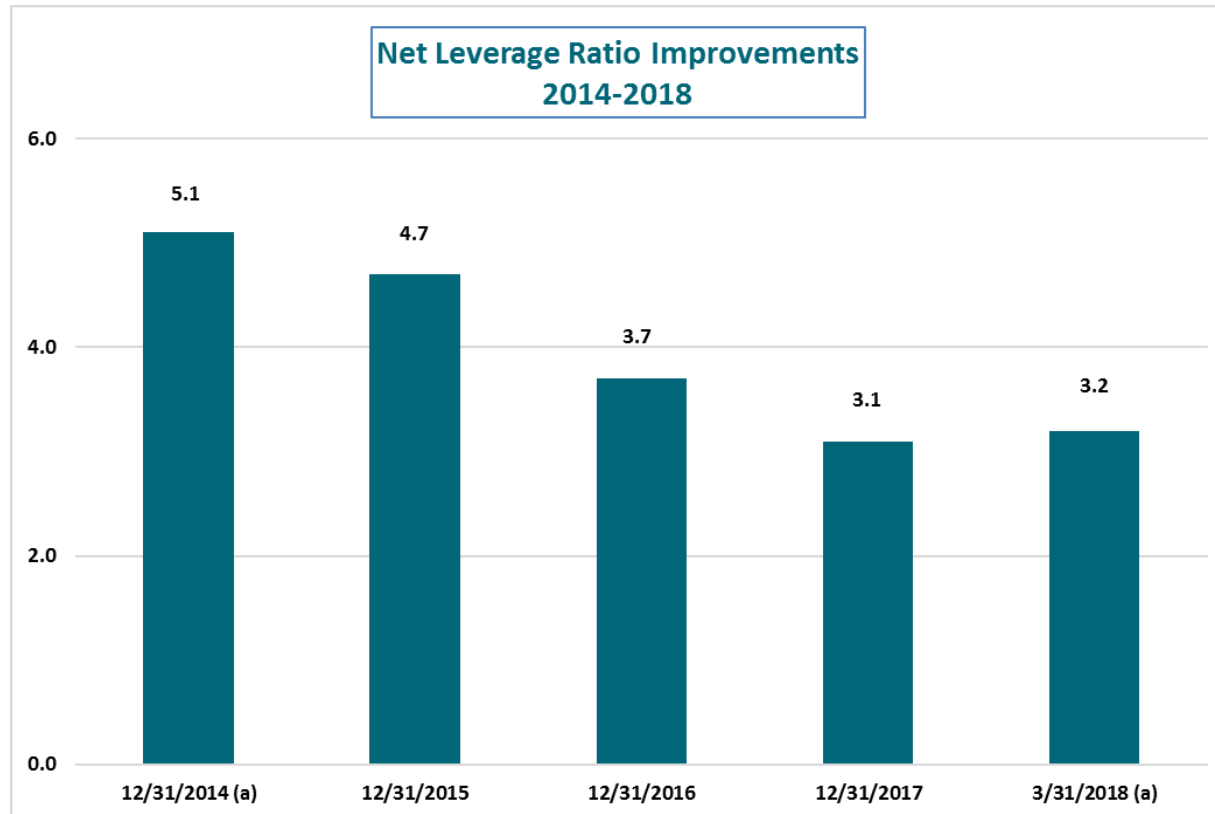
(\$ in millions)



Net Leverage Ratio: Significantly Improved Balance Sheet



(\$ in millions)



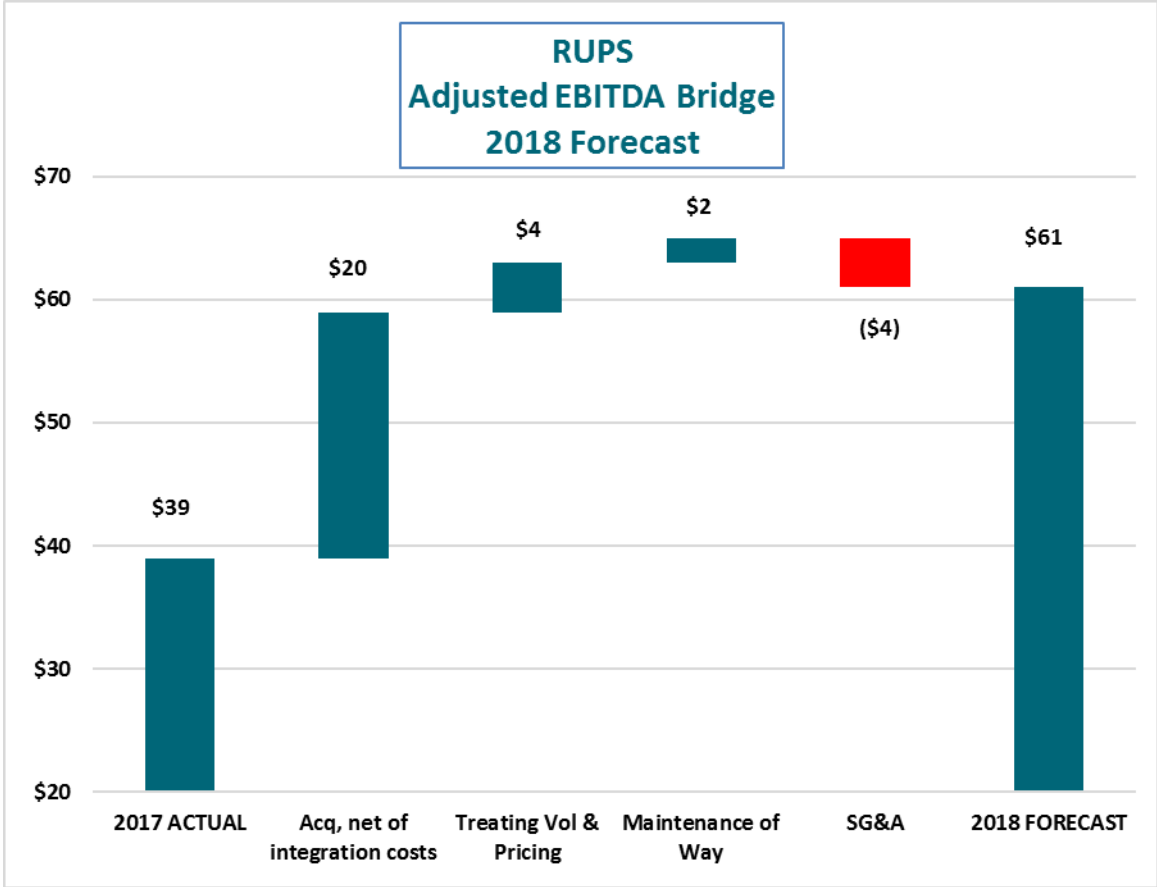
(a) Pro-forma

2018 Guidance

2018 Adjusted EBITDA Forecast: RUPS M&A Driven Improvement



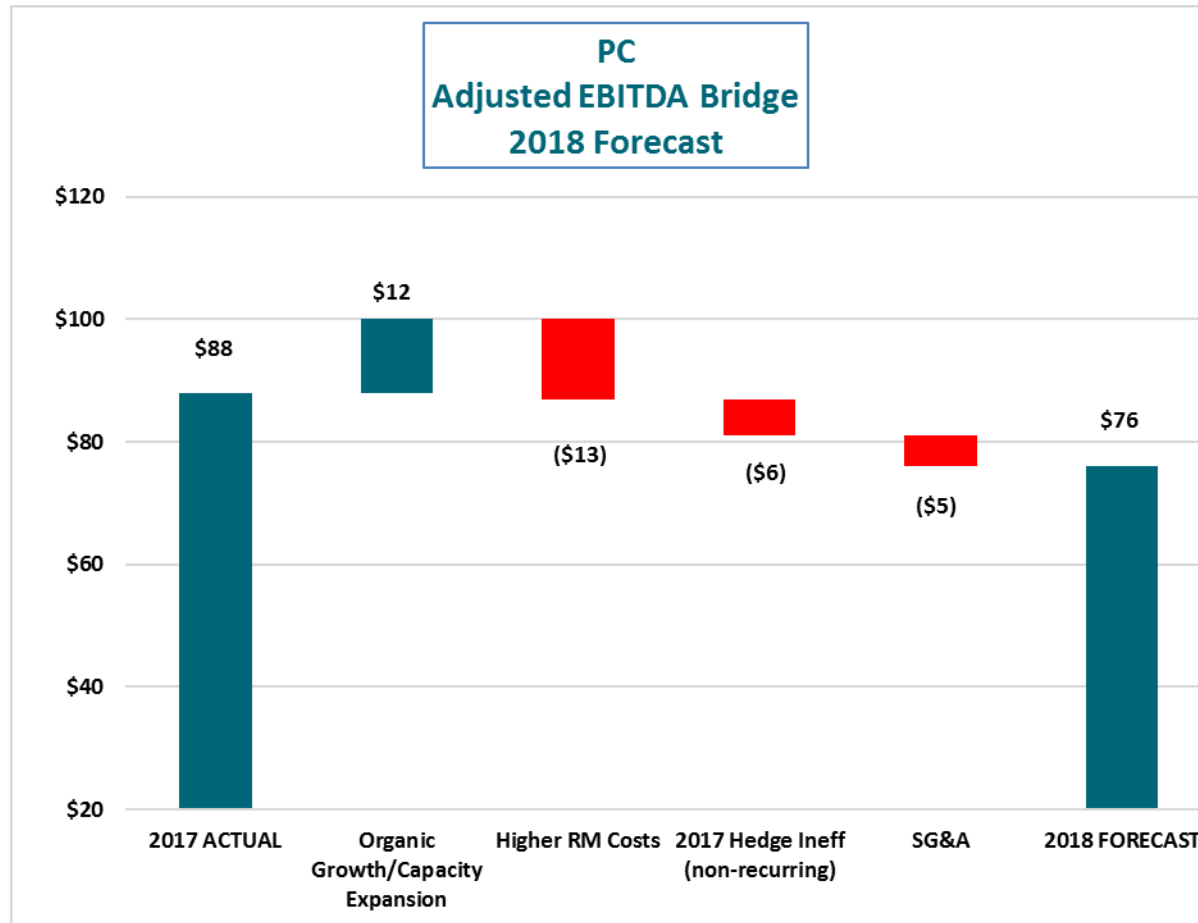
(\$ in millions)



2018 Adjusted EBITDA Forecast: PC Growth Offset by Raw Material Headwind



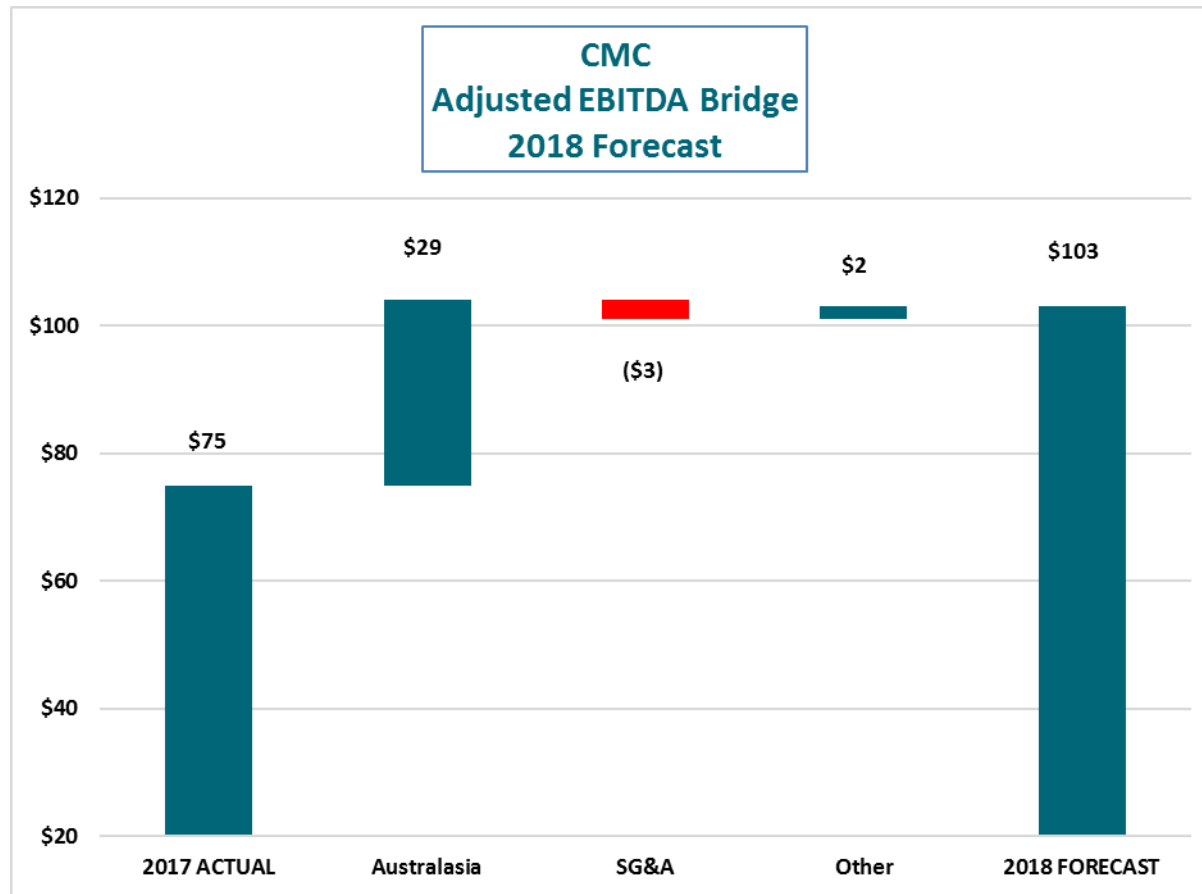
(\$ in millions)



2018 Adjusted EBITDA Forecast: CMC Australasia Drives Improvement



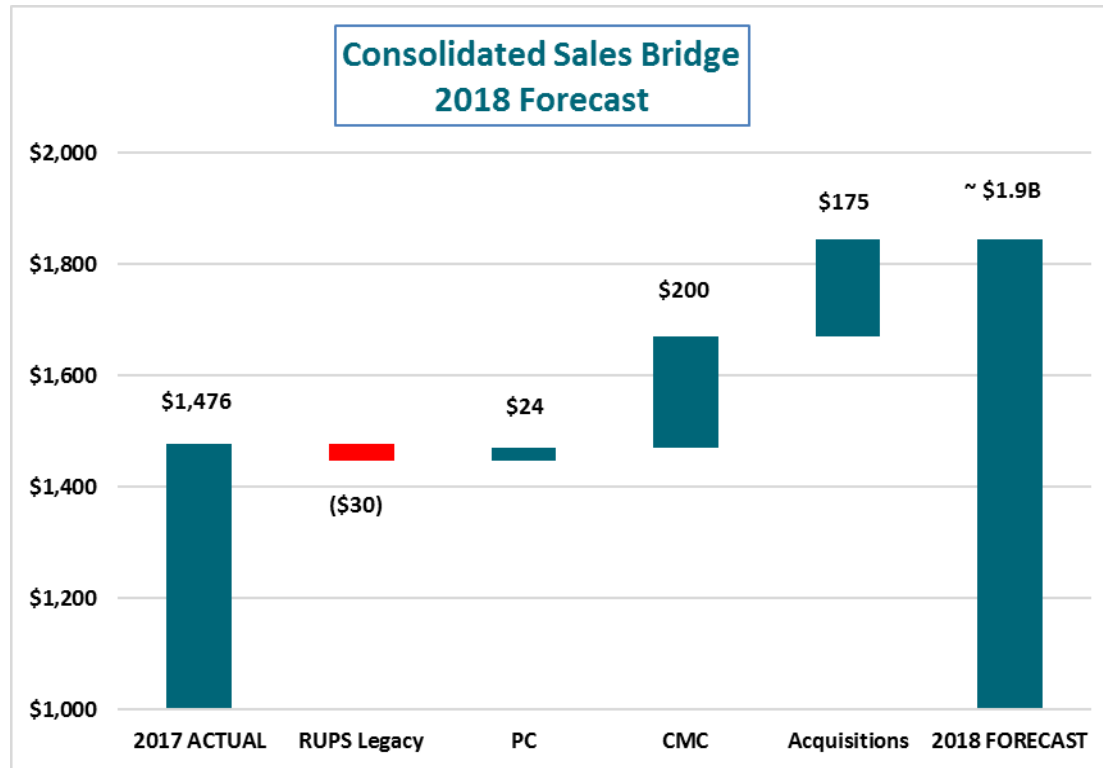
(\$ in millions)



2018 Sales Forecast of ~\$1.9B; Includes Recent Acquisitions



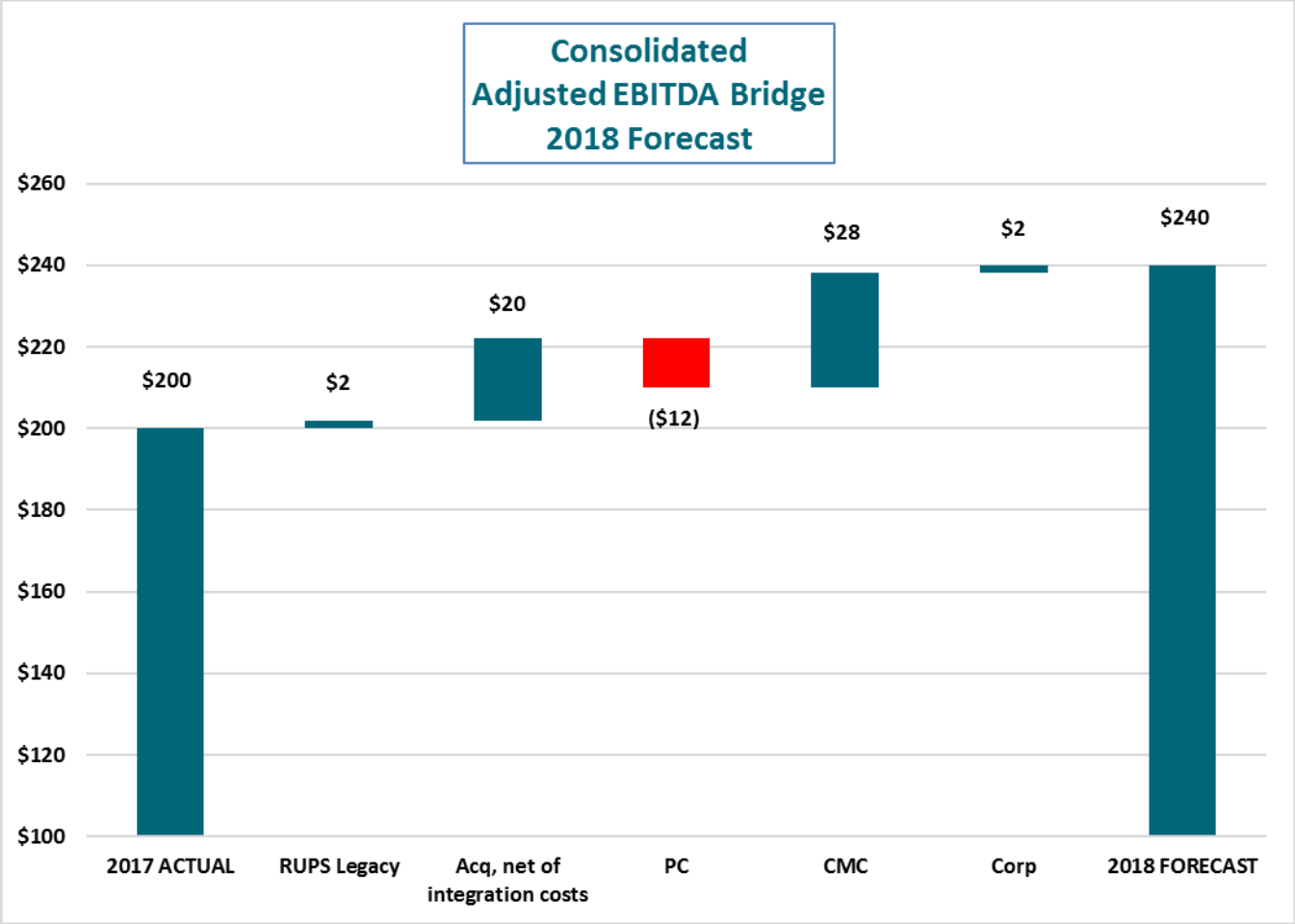
(\$ in millions)



2018 Adjusted EBITDA Forecast: M&A and CMC Drive Higher Profitability



(\$ in millions)



Non-GAAP Reconciliations

Non-GAAP Measures and Guidance

This presentation includes unaudited “non-GAAP financial measures” as defined in Regulation G under the Securities Exchange Act of 1934, including adjusted EBITDA. Koppers believes that the presentation of non-GAAP financial measures such as adjusted EBITDA provide information useful to investors in understanding the underlying operational performance of the company, its business and performance trends and facilitates comparisons between periods and with other corporations in similar industries. The exclusion of certain items permits evaluation and a comparison of results for ongoing business operations, and it is on this basis that Koppers management internally assesses the company's performance. In addition, the Board of Directors and executive management team use adjusted EBITDA as a performance measure under the company's annual incentive plans.

Although Koppers believes that these non-GAAP financial measures enhance investors' understanding of its business and performance, these non-GAAP financial measures should not be considered an alternative to GAAP basis financial measures and should be read in conjunction with the relevant GAAP financial measure. Other companies in a similar industry may define or calculate these measures differently than the company, limiting their usefulness as comparative measures. Because of these limitations, these non-GAAP financial measures should not be considered in isolation from, or as substitutes for performance measures calculated in accordance with GAAP.

For the company's guidance, adjusted EBITDA excludes restructuring, impairment, non-cash LIFO charges, and non-cash mark-to-market commodity hedging. The forecasted amounts for these items cannot be reasonably estimated due to their nature, but may be significant. For that reason, the company is unable to provide GAAP earnings estimates at this time. Final results could also be affected by various other factors that management is unaware of at this time.

References to historical EBITDA herein means adjusted EBITDA, for which the company has provided calculations and reconciliations in the Appendix.

Unaudited Reconciliation of Operating Profit To EBITDA and Adjusted EBITDA



UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA (In millions)

	Year Ended December 31, 2017				
	RUPS	PC	CMC	Corporate	
				Unallocated	Consolidated
Operating profit (loss)	\$ 25.3	\$ 71.4	\$ 27.4	\$ (12.0)	\$ 112.1
Other (loss) income	(0.3)	2.4	1.4	0.5	4.0
Depreciation	11.8	17.9	20.1	-	49.8
Depreciation in impairment and restructuring charges	-	-	13.0	-	13.0
EBITDA with noncontrolling interest	\$ 36.8	\$ 91.7	\$ 61.9	\$ (11.5)	\$ 178.9
Unusual items impacting net income:					
CMC restructuring	-	-	14.2	-	14.2
RUPS treating plant closures	1.7	-	-	-	1.7
Non-cash LIFO expense (benefit)	0.2	-	(0.7)	-	(0.5)
Mark-to-market commodity hedging	-	(3.5)	-	-	(3.5)
Pension settlement charge	-	-	-	10.0	10.0
Reimbursement of environmental costs	-	(0.4)	-	-	(0.4)
Adjusted EBITDA	\$ 38.7	\$ 87.8	\$ 75.4	\$ (1.5)	\$ 200.4
<i>Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)</i>	19.2%	43.5%	37.3%		

Unaudited Reconciliation of Total Debt to Net Debt and Net Leverage Ratio



UNAUDITED RECONCILIATION OF TOTAL DEBT TO NET DEBT AND NET LEVERAGE RATIO						
<i>(In millions)</i>						
	<i>Year ended December 31,</i>					
	<i>2017</i>		<i>2016</i>		<i>2015</i>	<i>Pro- Forma 2014</i>
Total Debt	\$ 677.0		\$ 662.4		\$ 722.3	\$ 850.5
Less: Cash	60.3		20.8		21.8	\$ -
Net Debt	\$ 616.7		\$ 641.6		\$ 700.5	\$ 850.5
Adjusted EBITDA	\$ 200.4		\$ 174.2		\$ 150.2	\$ 167.1
Net Leverage Ratio	3.1		3.7		4.7	5.1

Unaudited Segment Information

	<i>Three Months Ended March 31,</i>	
	2018	2017
<i>(Dollars in millions)</i>		
Net sales:		
Railroad and Utility Products and Services	\$ 108.4	\$ 135.5
Performance Chemicals	97.4	96.7
Carbon Materials and Chemicals	200.3	114.4
Total	\$ 406.1	\$ 346.6
Operating profit (loss):		
Railroad and Utility Products and Services	\$ 1.1	\$ 9.3
Performance Chemicals	5.6	18.6
Carbon Materials and Chemicals	37.2	0.6
Corporate Unallocated	(0.6)	(0.4)
Total	\$ 43.3	\$ 28.1
Operating profit margin:		
Railroad and Utility Products and Services	1.0%	6.9%
Performance Chemicals	5.7%	19.2%
Carbon Materials and Chemicals	18.6%	0.5%
Total	10.7%	8.1%
Depreciation and amortization:		
Railroad and Utility Products and Services	\$ 3.0	\$ 3.0
Performance Chemicals	4.4	4.4
Carbon Materials and Chemicals	4.4	3.8
Total	\$ 11.8	\$ 11.2
Adjusted EBITDA⁽¹⁾:		
Railroad and Utility Products and Services	\$ 5.4	\$ 11.9
Performance Chemicals	13.8	22.9
Carbon Materials and Chemicals	47.0	7.3
Corporate Unallocated	0.0	(0.3)
Total	\$ 66.2	\$ 41.8
Adjusted EBITDA margin⁽²⁾:		
Railroad and Utility Products and Services	5.0%	8.8%
Performance Chemicals	14.2%	23.7%
Carbon Materials and Chemicals	23.5%	6.4%
Total	16.3%	12.1%

(1) The tables below describe the adjustments to EBITDA for the quarters ended March 31, 2018 and 2017, respectively.

(2) Adjusted EBITDA as a percentage of GAAP sales.

Unaudited Reconciliation of Operating Profit To EBITDA and Adjusted EBITDA



UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA (In millions)

	<i>Three months ended March 31, 2018</i>				
	<i>RUPS</i>	<i>PC</i>	<i>CMC</i>	<i>Corporate Unallocated</i>	<i>Consolidated</i>
Operating profit (loss)	\$ 1.1	\$ 5.6	\$ 37.2	\$ (0.6)	\$ 43.3
Other income (loss)	(0.3)	0.3	(0.4)	0.6	0.2
Depreciation and amortization	3.0	4.4	4.4	0.0	11.8
Depreciation in impairment and restructuring charges	0.0	0.0	1.4	0.0	1.4
EBITDA with noncontrolling interest	\$ 3.8	\$ 10.3	\$ 42.6	\$ 0.0	\$ 56.7
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	4.1	0.0	4.1
RUPS treating plant closures	0.3	0.0	0.0	0.0	0.3
Non-cash LIFO expense	1.3	0.0	0.3	0.0	1.6
Mark-to-market commodity hedging	0.0	3.5	0.0	0.0	3.5
Adjusted EBITDA	\$ 5.4	\$ 13.8	\$ 47.0	\$ 0.0	\$ 66.2
<i>Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)</i>	<i>8.2%</i>	<i>20.8%</i>	<i>71.0%</i>		

Unaudited Reconciliation of Operating Profit To EBITDA and Adjusted EBITDA



UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA (In millions)

Three months ended March 31, 2017

	Corporate				
	RUPS	PC	CMC	Unallocated	Consolidated
Operating profit (loss)	\$ 9.3	\$ 18.6	\$ 0.6	\$ (0.4)	\$ 28.1
Other income (loss)	(0.4)	0.6	1.3	0.0	1.5
Depreciation and amortization	3.0	4.4	3.8	0.0	11.2
Depreciation in impairment and restructuring charges	0.0	0.0	1.2	0.0	1.2
EBITDA with noncontrolling interest	\$ 11.9	\$ 23.6	\$ 6.9	\$ (0.4)	\$ 42.0
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	0.8	0.0	0.8
RUPS treating plant closures	0.1	0.0	0.0	0.0	0.1
Non-cash LIFO benefit	(0.1)	0.0	(0.4)	0.0	(0.5)
Mark-to-market commodity hedging	0.0	(0.7)	0.0	0.0	(0.7)
Debt refinancing costs	0.0	0.0	0.0	0.1	0.1
Adjusted EBITDA	\$ 11.9	\$ 22.9	\$ 7.3	\$ (0.3)	\$ 41.8
<i>Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)</i>	28.3%	54.4%	17.3%		

Unaudited Reconciliation of Total Debt to Net Debt and Net Leverage Ratio



UNAUDITED RECONCILIATION OF TOTAL DEBT TO NET DEBT AND NET LEVERAGE RATIO (In millions)

	<i>Twelve months ended</i>		
	<i>March 31, 2018</i>	<i>Proforma March 31, 2018</i>	<i>December 31, 2017</i>
Total Debt	\$ 790.8	\$ 790.8	\$ 677.0
Less: Cash	52.2	52.2	60.3
Net Debt	\$ 738.6	\$ 738.6	\$ 616.7
Adjusted EBITDA	\$ 224.8	\$ 230.8	\$ 200.4
Net Leverage Ratio	3.3	3.2	3.1

Unaudited Reconciliation of Net Income to EBITDA & Adjusted EBITDA on a Latest Twelve Month Basis



UNAUDITED RECONCILIATION OF NET INCOME TO EBITDA AND ADJUSTED EBITDA ON A LATEST TWELVE MONTH BASIS (In millions)

	<i>Twelve months ended</i>	
	<i>March 31, 2018</i>	<i>December 31, 2017</i>
Net income	\$ 49.5	\$ 30.5
Interest expense including refinancing	42.4	55.8
Depreciation and amortization	63.6	62.8
Income tax provision	37.2	29.0
Discontinued operations	0.8	0.8
EBITDA	193.5	178.9
Unusual items impacting net income:		
Impairment, restructuring and plant closure	19.3	15.9
Non-cash LIFO expense (benefit)	1.6	(0.5)
Mark-to-market commodity hedging	0.7	(3.5)
Reimbursement of environmental costs	(0.3)	(0.4)
Pension settlement charge	10.0	10.0
Adjusted EBITDA with noncontrolling interests	\$ 224.8	\$ 200.4
Proforma adjusted EBITDA from MAER	6.0	0.0
Proforma adjusted EBITDA with noncontrolling interests	\$ 230.8	\$ 200.4

Koppers Holdings Inc.

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Koppers is an integrated global provider of treated wood products, wood treatment chemicals and carbon compounds for the railroad, specialty chemical, utility, residential lumber, agriculture, aluminum, steel, rubber, and construction industries. Headquartered in Pittsburgh, Pennsylvania, we serve our customers through a comprehensive global manufacturing and distribution network, with facilities located in North America, South America, Australasia, China and Europe.

Stock Exchange Listing

NYSE: KOP

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