

# PACCAR Inc

**Recommendation** BUY ★★☆☆☆

**Price**  
\$60.91 (as of Jul 06, 2018 4:00 PM ET)

**12-Mo. Target Price**  
\$77.00

**Report Currency**  
USD

**Investment Style**  
Large-Cap Value

**Equity Analyst Elizabeth Vermillion**

**GICS Sector** Industrials

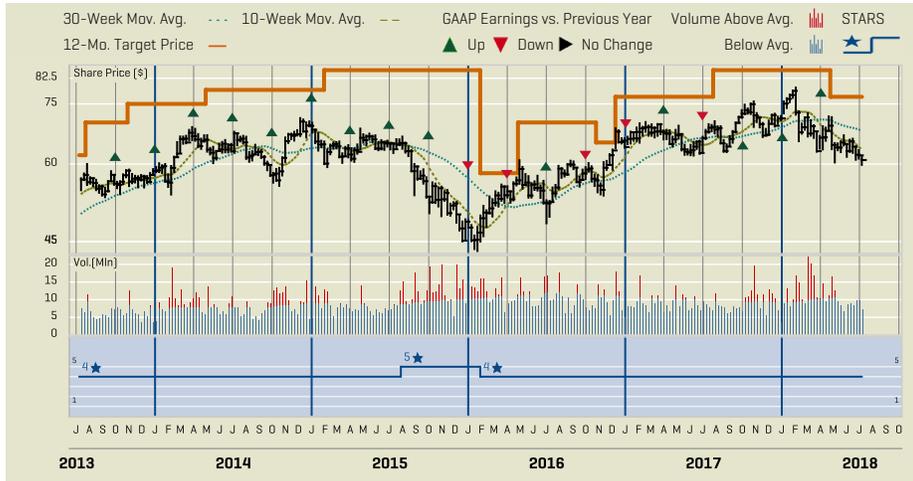
**Sub-Industry** Construction Machinery & Heavy Trucks

**Summary** This heavy-duty truck manufacturer produces the well-known Peterbilt and Kenworth brand heavy-duty highway trucks.

**Key Stock Statistics** (Source: CFRA, S&P Global Market Intelligence (SPGMI), Company Reports)

52-Wk Range	<b>\$79.69 - 59.82</b>	Oper. EPS 2018E	<b>5.46</b>	Market Capitalization(B)	<b>\$21.43</b>	Beta	<b>1.24</b>
Trailing 12-Month EPS	<b>5.32</b>	Oper. EPS 2019E	<b>5.64</b>	Yield (%)	<b>3.81</b>	3-Yr Proj. EPS CAGR(%)	<b>14</b>
Trailing 12-Month P/E	<b>11.39</b>	P/E on Oper. EPS 2018E	<b>11.10</b>	Dividend Rate/Share	<b>\$2.32</b>	SPGMI's Quality Ranking	<b>B+</b>
\$10K Invested 5 Yrs Ago	<b>\$13,173</b>	Common Shares Outstg.(M)	<b>351.81</b>	Institutional Ownership (%)	<b>65</b>		

**Price Performance**



Source: CFRA, S&P Global Market Intelligence

Past performance is not an indication of future performance and should not be relied upon as such.

Analysis prepared by Equity Analyst Elizabeth Vermillion on Apr 30, 2018 02:02 PM, when the stock traded at \$64.41.

**Highlights**

- ▶ After falling 12% in 2016 and rising 14.8% in 2017, we see a 12% -12.5% sales increase in 2018. We expect robust global truck demand and aftermarket parts demand. Revenues for the parts segment improved 19% in the first quarter due to an increase in the number of PCAR trucks/engines in operation as well as investments in distribution centers and products. Class 8 truck industry orders more than doubled in the first quarter. As a result, PCAR raised the 2018 sales estimate to 265,000-285,000 from 235,000-265,000. We see strength in Europe continuing and expect improvements in Brazil. Demand in North America should benefit from pent-up demand for new trucks amid an aging North American fleet along with stronger transportation demand.
- ▶ We see gross margin expanding roughly 15 basis points to 14.4% in 2018. Despite significant revenue growth, margins are only up slightly because margins on truck sales are lower than margins on parts sales. We anticipate truck sales accelerating in 2018 and see margins benefiting from favorable customer mix and seasonal demand.
- ▶ We estimate EPS in 2018 to be \$5.46. For 2019, we see EPS of \$5.64, 32% above the reported 2017 adjusted EPS.

**Investment Rationale/Risk**

- ▶ Demand in North America is improving and we expect strength in international markets in 2018. We think the uncertainty in the global economy in 2017 led to some delayed investment decisions, but we see good economic growth, increased consumer spending and strong commercial and residential construction resulting in record freight tonnage and high fleet capacity utilization. Strong transportation demand and aging fleets should support growth in future periods. We favorably view the company's ability to remain profitable during the last cyclical downturn in truck sales and think PCAR also has significant positive operating leverage as volumes increase. PCAR uses its strong operating cash flow to invest in new facilities, products and services, leading to an increasing market share.
- ▶ Risks to our recommendation and target price include a slower economic recovery than we expect, a delayed improvement in North American truck demand, potential supply disruptions, foreign exchange volatility, and increases in raw material costs.
- ▶ Our 12-month target price of \$77 values the shares at 14.1X our 2018 EPS estimate of \$5.46, at the low end of PCAR's five-year historical P/E range.

**Analyst's Risk Assessment**

<b>LOW</b>	<b>MEDIUM</b>	<b>HIGH</b>
------------	---------------	-------------

Our risk assessment for Paccar reflects the highly cyclical nature of the heavy-duty (Class 8) truck market, offset by a strong balance sheet with a relatively low amount of manufacturing debt and a geographic sales mix that is increasingly diversified.

**Revenue/Earnings Data**

Revenue (Million U.S. \$)	1Q	2Q	3Q	4Q	Year
2018	5,654	--	--	--	--
2017	4,238	4,704	5,060	5,455	19,456
2016	4,300	4,413	4,249	4,071	17,033
2015	4,833	5,080	4,847	4,355	19,115
2014	4,380	4,570	4,928	5,119	18,997
2013	3,924	4,301	4,300	4,599	17,124

**Earnings Per Share (U.S. \$)**

	1Q	2Q	3Q	4Q	Year
2019	<b>E 1.35</b>	<b>E 1.43</b>	<b>E 1.40</b>	<b>E 1.37</b>	<b>E 5.64</b>
2018	1.45	<b>E 1.36</b>	<b>E 1.37</b>	<b>E 1.37</b>	<b>E 5.46</b>
2017	0.88	1.06	1.14	1.67	4.75
2016	-1.69	1.37	0.98	0.82	1.48
2015	1.06	1.26	1.21	0.98	4.51
2014	0.77	0.90	1.04	1.11	3.82

Fiscal year ended Dec 31. Next earnings report expected: Late Jul. EPS Estimates based on CFRA's Operating Earnings; historical GAAP earnings are as reported in Company reports.

**Dividend Data**

Amount (\$)	Date Decl.	Ex-Div. Date	Stk. of Record	Payment Date
0.28	May 01	May 14	May 15	Jun 05 '18
0.25	Dec 05	Feb 12	Feb 13	Mar 06 '18
1.20 Spl.	Dec 05	Dec 13	Dec 14	Jan 04 '18
0.25	Sep 12	Nov 13	Nov 14	Dec 05 '17
0.25	Jul 11	Aug 14	Aug 16	Sep 06 '17

Dividends have been paid since 1943. Source: Company reports.

Past performance is not an indication of future performance and should not be relied upon as such.

Forecasts are not reliable indicator of future performance.

Redistribution or reproduction is prohibited without written permission. Copyright © 2018 CFRA. This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. Investors should seek independent financial advice regarding the suitability and/or appropriateness of making an investment or implementing the investment strategies discussed in this document and should understand that statements regarding future prospects may not be realized. Investors should note that income from such investments, if any, may fluctuate and that the value of such investments may rise or fall. Accordingly, investors may receive back less than they originally invested. Investors should seek advice concerning any impact this investment may have on their personal tax position from their own tax advisor. Please note the publication date of this document. It may contain specific information that is no longer current and should not be used to make an investment decision. Unless otherwise indicated, there is no intention to update this document.

## PACCAR Inc

### Business Summary April 30, 2018

**CORPORATE OVERVIEW.** Originally incorporated in 1924 as the Pacific Car and Foundry Company, and tracing its roots back to the Seattle Car Manufacturing Company, PACCAR has grown into a multinational company with principal businesses that include the design, manufacture and distribution of high-quality light, medium and heavy-duty commercial trucks and related aftermarket parts. The company's heavy-duty [Class 8] diesel trucks are marketed under the Peterbilt, Kenworth, DAF and Foden names. In addition, through its Peterbilt and Kenworth divisions, PCAR competes in the North American medium-duty [Class 6/7] markets and the European light/medium [6 to 15 metric ton] commercial vehicle market with DAF cab-over-engine trucks.

In 2017, the company's truck production accounted for 76% of revenues, while related aftermarket parts distribution businesses accounted for 17% of revenues. Segment gross margins in 2017 were 11.5% for the truck segment and 26.5% for the parts business.

Like other big truck makers, the company aims to capitalize on a growing trend toward truck leasing and financing. The Finance Services segment accounted for 7% of 2017 revenues, but generated 27% of pretax income; it posted operating margins of 25.8% and 30.9% in 2016 and 2015, respectively.

**PRIMARY BUSINESS DYNAMICS.** PCAR operates in a highly cyclical industry, where trends tend to be exacerbated by regulatory changes to engine emission standards. PCAR thinks total Class 8 retail sales in the U.S. and Canada were approximately 215,700 units in 2016, and were forecast to be 210,000-220,000 in 2017 and 220,000-250,000 in 2018. Also, according to PCAR, industry sales of trucks above 15 tonnes in Western and Central Europe were 302,500 in 2016 and forecast to be 300,000-310,000 in 2017 and 280,000-310,000 in 2018.

Based on statistics provided by ACT Research, the North American heavy-duty truck industry experienced a bottom in 1991, with retail sales of Class 8 vehicles of 112,000. Industry sales climbed through the 1990s, peaking at 308,000 units in 1999, before declining to approximately 179,000 units in 2002. Compound annual growth during that 11-year period, from cycle trough to cycle trough, was about 4.4%. Following a similar pattern, unit sales rose between 2003 and 2006 as the economy recovered from recession, peaking at 369,000 units. We think that growth assumptions on the part of fleet owners were too optimistic going into 2006 and contributed to an overbuying of trucks. This in combination with declining freight volumes contributed to a more than 35% decline in sales during 2007 to 236,649 units. Between 2002 and 2007, sales grew at a compound annual rate of 5.7%. Class 8 truck sales declined 35% in 2008, to 153,000, and fell a further 29% in 2009, to 108,000 units, which we think was the bottom of the last cycle. In North America, PACCAR's primary competitors in the heavy-duty truck market are Freightliner [a subsidiary of Daimler], and Mack Trucks [a division of Volvo trucks].

**CORPORATE STRATEGY.** Because of high fixed manufacturing costs, size is significant in the truck-making business. In general, the higher the production rate, the lower the per-truck manufacturing costs. According to the company, lower per-truck manufacturing costs, as well as brand name recognition, are big advantages in the very competitive heavy truck industry. In an effort to mitigate sales and earnings cyclicity, PCAR also focuses on truck design and assembly, leaving the production of major components to outside suppliers. We think this strategy has served the company well when volatile demand for heavy trucks tails off during cyclical downturns.

**FINANCIAL TRENDS.** For the five-year period ended in 2017, PCAR exhibited a revenue compound annual growth rate [CAGR] of 2.7% and a net income CAGR of 6%. Going forward, we think the price premium that PCAR is able to charge for its products, combined with its relatively lean cost structure, should enable the company to maintain its above-average profitability relative to other truck manufacturers.

### Corporate Information

#### Investor Contact

U. Kammholz [425-468-7400]

#### Office

777 - 106th Avenue NE, Bellevue, Washington 98004

#### Telephone

425-468-7400

#### Fax

425-468-8216

#### Website

www.paccar.com

#### Officers

##### CEO & Director

R. E. Armstrong

##### President & CFO

H. M. Schippers

##### VP & General Counsel

D. S. Grandstaff

##### Executive Chairman

M. C. Pigott

#### Board Members

A. J. Carnwath

K. S. Hachigian

B. E. Ford

M. A. Schulz

C. R. Williamson

M. C. Pigott

F. L. Feder

R. C. McGeary

G. E. Spierkel

R. E. Armstrong

J. M. Pigott

#### Domicile

Delaware

#### Auditor

Ernst & Young LLP

#### Founded

1905

#### Employees

25,000

# PACCAR Inc

Quantitative Evaluations						
<b>Fair Value Rank</b>	5					
	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table> <p>LOWEST <span style="float:right">HIGHEST</span></p> <p>Based on CFRA's proprietary quantitative model, stocks are ranked from most overvalued [1] to most undervalued [5].</p>	1	2	3	4	5
1	2	3	4	5		
<b>Fair Value Calculation</b>	<p><b>\$84.81</b> Analysis of the stock's current worth, based on CFRA's proprietary quantitative model suggests that PCAR is undervalued by \$23.90 or 39.2%.</p>					
<b>Volatility</b>	<table border="1"> <tr> <td>LOW</td> <td>AVERAGE</td> <td>HIGH</td> </tr> </table>	LOW	AVERAGE	HIGH		
LOW	AVERAGE	HIGH				
<b>Technical Evaluation</b>	<p><b>NEUTRAL</b> Since June, 2018, the technical indicators for PCAR have been NEUTRAL.</p>					
<b>Insider Activity</b>	<table border="1"> <tr> <td>UNFAVORABLE</td> <td>NEUTRAL</td> <td>FAVORABLE</td> </tr> </table>	UNFAVORABLE	NEUTRAL	FAVORABLE		
UNFAVORABLE	NEUTRAL	FAVORABLE				

Expanded Ratio Analysis		2017	2016	2015	2014
Price/Sales		1.29	1.32	0.88	1.27
Price/EBITDA		9.42	9.25	6.09	9.90
Price/Pretax Income		11.54	19.89	7.21	12.00
P/E Ratio		14.96	43.18	10.51	17.80
Avg. Diluted Shares Outsg.(M)		353	352	356	356

Figures based on fiscal year-end price

Key Growth Rates and Averages		1 Year	3 Years	5 Years
<b>Past Growth Rate [%]</b>				
Sales		14.23	0.80	2.68
Net Income		NM	7.23	8.55
<b>Ratio Analysis [Annual Avg.]</b>				
Net Margin [%]		NM	NM	NM
Return on Equity [%]		22.59	NA	NA

## Company Financials Fiscal year ending Dec. 31

Per Share Data (U.S. \$)	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Tangible Book Value	22.88	19.33	19.76	19.05	18.73	16.54	15.03	14.67	14.02	13.36
Free Cash Flow	2.47	0.96	2.34	1.65	1.42	-0.80	-0.15	1.83	1.11	-0.67
Earnings	4.75	1.48	4.51	3.82	3.30	3.12	2.86	1.25	0.31	2.78
Earnings (Normalized)	3.85	3.49	4.11	3.54	2.98	2.86	2.58	1.13	0.19	2.51
Dividends	0.99	0.96	0.92	0.86	0.80	0.78	0.60	0.39	0.54	0.72
Payout Ratio [%]	17	130	42	46	24	73	21	55	207	62
Prices: High	75.68	68.50	68.87	71.15	60.00	48.22	58.75	57.83	40.26	55.54
Prices: Low	61.93	43.46	45.04	53.59	45.42	35.21	31.57	33.45	20.38	21.96
P/E Ratio: High	47.3	33.8	19.4	20.7	20.5	18.9	63.2	NM	31.3	17.2
P/E Ratio: Low	15.4	9.5	11.6	16.0	12.5	11.0	16.6	65.5	7.0	7.0

Income Statement Analysis (Million U.S. \$)	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Revenue	19,456	17,033	19,115	18,997	17,124	17,051	16,355	10,293	8,087	14,973
Operating Income	2,144	1,947	2,328	2,001	1,672	1,596	1,479	649	130	1,380
Depreciation + Amortization	520	484	441	445	375	331	327	298	307	653
Interest Expense	1.70	NA	13.40	3.80	6.70	NA	13.50	1.30	43.60	NA
Pretax Income	2,173	1,130	2,337	2,018	1,695	1,629	1,507	660	175	1,464
Effective Tax Rate	22.9	53.8	31.4	32.7	30.9	31.8	30.8	30.7	36.1	30.5
Net Income	1,675	522	1,604	1,359	1,171	1,112	1,042	458	112	1,018
Net Income (Normalized)	1,358	1,227	1,461	1,261	1,059	1,018	942	413	68	917

Balance Sheet and Other Financial Data (Million U.S. \$)	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Cash	3,622	2,923	3,378	2,937	2,925	2,396	2,901	2,433	2,056	2,075
Current Assets	16,178	14,116	14,836	14,421	14,032	12,805	12,232	9,934	10,052	11,736
Total Assets	23,440	20,639	21,110	20,619	20,726	18,628	17,173	14,234	14,569	16,250
Current Liabilities	6,750	5,030	5,694	5,670	5,350	5,820	6,773	4,102	4,401	5,461
Long Term Debt	NA	NA	NA	NA	NA	150	150	150	172	19
Total Capital	17,028	15,299	15,579	15,030	15,126	13,839	12,128	10,745	11,293	12,332
Capital Expenditures	1,847	1,965	1,725	1,537	1,873	1,803	1,647	884	971	1,550
Cash from Operations	2,716	2,301	2,556	2,124	2,376	1,519	1,593	1,551	1,373	1,305
Current Ratio	2.40	2.81	2.61	2.54	2.62	2.20	1.81	2.42	2.28	2.15
% Long Term Debt of Capitalization	NA	NA	NA	NA	NA	1.08	1.24	1.40	1.53	0.16
% Net Income of Revenue	8.61	3.06	8.39	7.15	6.84	6.52	6.37	4.45	1.38	6.80
% Return on Assets	6.08	5.83	6.97	6.05	5.31	5.57	5.89	2.81	0.53	5.14
% Return on Equity	22.6	7.6	23.4	20.3	18.8	19.8	19.4	8.7	2.2	20.6

Source: S&P Global Market Intelligence. Data may be preliminary or restated; before results of discontinued operations/special items. Per share data adjusted for stock dividends; EPS diluted. E-Estimated. NA-Not Available. NM-Not Meaningful. NR-Not Ranked. UR-Under Review.

# PACCAR Inc

## Sub-Industry Outlook

Our fundamental outlook for the construction and farm machinery & heavy trucks sub-industry for the next 12 months is positive. A variety of challenges have been testing the group, but we see the overall sub-industry maintaining an upturn once it gets past current difficulties.

After a major downturn, demand for construction equipment rose sharply in 2010 and 2011, but the gains moderated in 2012 on tougher industry conditions. Based on a study by KHL Group, a construction information firm, sales of construction equipment by the world's 50 largest manufacturers grew 2.6% in 2012, declined 1% in 2013, and fell 2.6% in 2014. This was in stark contrast to 2011, when sales grew a very robust 25%. We think the revival in 2010 and 2011 mostly reflected major demand in non-residential markets, on a high level of construction projects in emerging markets. Economic uncertainties, particularly in China, moderated the pace of construction equipment markets from 2012 to 2014. We saw more robust growth once global government stimulus plans began to aid the economic picture.

A peak in farm income in 2013 led to decreased demand for farm equipment for the next several years. Although farm income still has not recovered, we think it has neared the bottom and should start to improve in late 2018 or 2019. At the same time, aging equipment needs to be replaced, which is fueling improved demand, and emerging and other markets throughout the world are showing improved demand as well. Overall, we think modestly stronger sales levels of farm equipment took place in 2016 and were followed by stronger demand in 2017, which we expect to persist in 2018. Tariff discussions and trade war threats are weighing on companies in the sub-industry as impacts are still uncertain.

Increased freight demand and aging truck fleets

led to year-to-year gains in North American heavy truck purchases in 2017, as heavy duty truck sales in North America were 218,000 versus 215,700 in 2016, and are expected to rise to 265,000-285,000 in 2018, according to truck maker Paccar. Europe heavy duty truck sales in 2017 were a strong 306,000 units versus 302,500 in 2016 and there should be about 300,000-320,000 units sold in 2018.

Year to date through June 29, 2018, the S&P Construction Machinery & Heavy Trucks Index declined 13.9% versus a 2.0% rise for the S&P 1500 Index. In June, the S&P Construction Machinery & Heavy Trucks Index declined 6.9% versus a 0.5% increase in the S&P 1500 Index. In 2017, the S&P Construction Machinery & Heavy Trucks index rose 40.8% versus a 17.8% increase for the S&P 1500.

**/Elizabeth Vermillion**

## Industry Performance

### GICS Sector: Industrials

### Sub-Industry: Construction Machinery & Heavy Trucks

Based on S&P 1500 Indexes

Five-Year market price performance through Jul 07, 2018



NOTE: All Sector & Sub-Industry information is based on the Global Industry Classification Standard (GICS).

Past performance is not an indication of future performance and should not be relied upon as such.

Source: S&P Global Market Intelligence

## Sub-Industry: Construction Machinery & Heavy Trucks Peer Group\*: Construction Machinery & Heavy Trucks

Peer Group	Stock Symbol	Exchange	Currency	Recent Stock Price [\$]	Stk. Mkt. Cap. [M \$]	30-Day Price Chg. [%]	1-Year Price Chg. [%]	P/E Ratio	Fair Value Calc. [\$]	Yield [%]	Return on Equity [%]	LTD to Cap [%]
<b>PACCAR Inc</b>	<b>PCAR</b>	<b>NasdaqGS</b>	<b>USD</b>	<b>60.91</b>	<b>21,429</b>	<b>-7.0</b>	<b>-9.4</b>	<b>11</b>	<b>84.81</b>	<b>3.8</b>	<b>22.6</b>	<b>NA</b>
Allison Transmission Holdings, Inc.	ALSN	NYSE	USD	40.41	5,553	-5.0	7.8	10	51.52	1.5	56.9	78.3
Alstom SA	ALSM.Y	OTCPK	USD	4.576	10,167	-5.4	31.2	19	NA	0.9	11.2	16.6
Cummins Inc.	CMI	NYSE	USD	131.40	21,585	-8.5	-20.0	24	111.66	3.3	13.0	15.6
Hino Motors, Ltd.	HINO.Y	OTCPK	USD	104.76	6,012	-5.7	-6.4	13	NA	2.4	10.9	1.7
Komatsu Ltd.	KMTU.Y	OTCPK	USD	29.11	27,461	-7.5	13.7	16	NA	2.6	12.3	18.8
Oshkosh Corporation	OSK	NYSE	USD	70.94	5,244	-6.2	3.0	14	78.50	1.4	13.3	25.7
Trinity Industries, Inc.	TRN	NYSE	USD	34.71	5,182	0.1	25.4	8	61.45	1.5	15.6	10.4
WABCO Holdings Inc.	WBC	NYSE	USD	116.16	6,226	-6.5	-9.4	15	157.24	Nil	43.0	39.2
Weichai Power Co., Ltd.	WEIC.Y	OTCPK	USD	9.438	9,721	-14.6	NM	8	NA	5.2	18.2	26.9
Westinghouse Air Brake Technologies Corporation	WAB	NYSE	USD	100.10	9,639	-1.5	10.5	35	96.63	0.5	9.0	38.8

\*For Peer Groups with more than 10 companies or stocks, selection of issues is based on market capitalization.

NA-Not Available NM-Not Meaningful.

Note: Peers are selected based on Global Industry Classification Standards and market capitalization. The peer group list includes companies with similar characteristics, but may not include all the companies within the same industry and/or that engage in the same line of business.

## PACCAR Inc

### Analyst Research Notes and other Company News

#### April 24, 2018

04:05 pm ET... CFRA MAINTAINS BUY OPINION ON SHARES OF PACCAR INC (PCAR 69.41\*\*\*): We lower our 12-month target price to \$77 from \$85, valuing the shares at 14.1X our 2018 EPS estimate of \$5.46 [raised today from \$4.77], at the low end of PCAR's 5-year historical range. We raise our 2019 EPS estimate to \$5.64 from \$5.11. PCAR posts Q1 EPS of \$1.45 vs. \$0.88, above our \$1.18 estimate. Global truck demand and aftermarket parts demand drove revenues up 33% year-over-year. Gross margins for the Trucks, Parts & Other segment were 14.8%, benefiting from favorable customer mix and increased seasonal demand. We see Class 8 truck retail sales between 265,000-285,000 and expect parts sales to be up 10%-12% in 2018. /Elizabeth Vermillion

#### January 30, 2018

02:24 pm ET... CFRA MAINTAINS BUY OPINION ON SHARES OF PACCAR INC (PCAR 75.02\*\*\*): We keep our 12-month target price at \$85, 17.8X our '18 EPS est. of \$4.77 [raised from \$4.52], near PCAR's 10-year average due to a positive view of global truck demand. We start our '19 EPS est. at \$5.11. Q4 EPS of \$1.18 vs. \$0.82 beat our \$1.00 est. Q4 revenue for trucks, parts and other rose 36% YOY due to increased sales volumes and parts incentives. We see '18 revenue growth of 11% as truck demand increases in response to increased consumer spending and improving residential and commercial construction markets and see PCAR factories as poised to meet the increasing demand. /Elizabeth Vermillion

#### October 24, 2017

12:41 pm ET... CFRA KEEPS BUY OPINION ON SHARES OF PACCAR INC (PCAR 72.96\*\*\*): We keep our 12-month target price at \$85, 18.8X our '18 EPS estimate of \$4.52 [raised from \$4.27], toward the high-end of PCAR's historical range over the past decade, reflecting our positive view of demand for trucks in North America and Europe. We raise our '17 EPS estimate to \$4.01 from \$3.85, after PCAR posts Q3 EPS of \$1.14 vs. \$0.98, well above our \$0.97 estimate. Revenue growth of 20% was aided by strong demand and market share gains, which exceeded our expectations. PCAR is a well run company that is well positioned to benefit from the improving demand we expect in 2018. /Jim Corridore

#### July 25, 2017

03:56 pm ET... CFRA KEEPS BUY OPINION ON SHARES OF PACCAR (PCAR 68.6\*\*\*): We raise our 12-month target price to \$85 from \$77, 19.9X our '18 EPS estimate of \$4.27 [raised today from \$4.14], about in line with PCAR's five year average and below peers. We raise our '17 EPS estimate to \$3.85 from \$3.61. PCAR posts Q2 EPS of \$1.06 vs. \$0.92, beating our \$0.92 estimate and the consensus of \$0.99, on much better revenues than we expected. PCAR was able to offset the impact of weaker pricing and currency effects with better volumes. PCAR seeing improving demand in North America and Europe, an encouraging sign for better revenue growth. /J. Corridore

#### April 25, 2017

03:13 pm ET... CFRA KEEPS BUY OPINION ON SHARES OF PACCAR (PCAR 65.9\*\*\*): We keep our 12-month target price of \$77, 21.3X our '17 EPS estimate of \$3.61 [raised today from \$3.49], in line with PCAR's three-year average. We raise our '18 EPS estimate to \$4.14 from \$3.88. PCAR Q1 adjusted EPS of \$0.88 vs. \$0.99 was in line with the S&P Capital IQ consensus. Q1 results were affected by lower shipments in North America and higher interest rates. However, PCAR foresees strengthening order trends, which bode well for the rest of '17 and '18. We find the shares attractively valued given likely strengthening demand. /J. Corridore

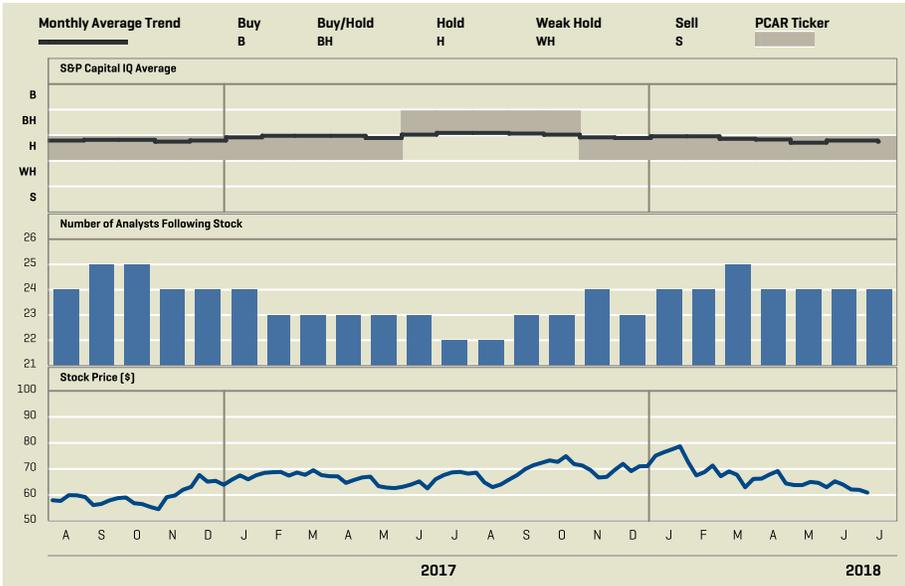
#### January 31, 2017

10:21 am ET... S&P CAPITAL IQ KEEPS BUY OPINION ON SHARES OF PACCAR (PCAR 65.84\*\*\*): We keep our 12-month target price at \$77, 22X our '17 EPS estimate of \$3.49 [cut today from \$3.61], below PCAR's three-year average to reflect weak operating environment. We keep our '18 estimate at \$3.88. PCAR Q4 EPS of \$0.82 vs. \$0.98 missed our \$0.94 estimate, on slightly weaker revenues than we were expecting. While we do not see strong truck volumes likely in '17, we expect PCAR to remain solidly profitable and see it as well positioned for a rebound in demand as we move through the year. We see the company as a technology leader with strong market share globally. /J. Corridore

Note: Research notes reflect CFRA's published opinions and analysis on the stock at the time the note was published. The note reflects the views of the equity analyst as of the date and time indicated in the note, and may not reflect CFRA's current view on the company.

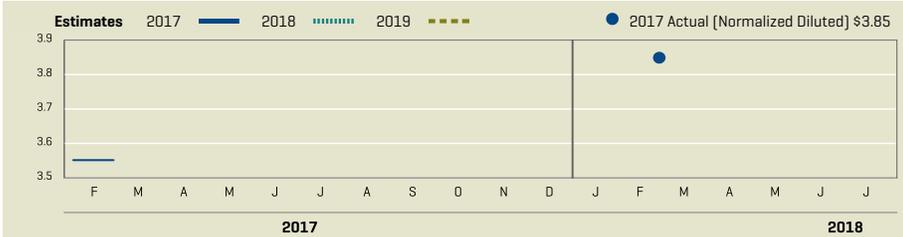
# PACCAR Inc

## Analysts' Recommendations



	No. of Recommendations	% of Total	1 Mo. Prior	3 Mos. Prior
Buy	4	17	4	4
Buy/Hold	2	8	1	2
Hold	16	67	18	17
Weak Hold	0	0	0	0
Sell	2	8	1	1
No Opinion	0	0	0	0
<b>Total</b>	<b>24</b>	<b>100</b>	<b>24</b>	<b>24</b>

## Wall Street Consensus Estimates



Fiscal Years	Avg Est.	High Est.	Low Est.	# of Est.	Est. P/E
2019	5.81	6.55	5.18	22	10.5
2018	5.69	6.18	5.39	22	10.7
<b>2019 vs. 2018</b>	<b>▲2%</b>	<b>▲6%</b>	<b>▼-4%</b>	<b>0%</b>	<b>▼-2%</b>
Q2'19	1.45	1.51	1.40	8	41.9
Q2'18	1.43	1.55	1.36	19	42.5
<b>Q2'19 vs. Q2'18</b>	<b>▲1%</b>	<b>▼-3%</b>	<b>▲3%</b>	<b>▼-58%</b>	<b>▼-1%</b>

Forecasts are not reliable indicator of future performance.

Note: A company's earnings outlook plays a major part in any investment decision. S&P Global Market Intelligence organizes the earnings estimates of over 2,300 Wall Street analysts, and provides their consensus of earnings over the next two years, as well as how those earnings estimates have changed over time. Note that the information provided in relation to consensus estimates is not intended to predict actual results and should not be taken as a reliable indicator of future performance.

**Note: For all tables, graphs and charts in this report that do not cite any reference or source, the source is S&P Global Market Intelligence.**

## Wall Street Consensus Opinion

**HOLD**

### Wall Street Consensus vs. Performance

For fiscal year 2018, analysts estimate that PCAR will earn USD \$5.69. For the 1st quarter of fiscal year 2018, PCAR announced earnings per share of USD \$1.45, representing 25.5% of the total revenue estimate. For fiscal year 2019, analysts estimate that PCAR's earnings per share will grow by 2% to USD \$5.81.

## PACCAR Inc

### Glossary

#### STARS

Since January 1, 1987, CFRA Equity and Fund Research Services, and its predecessor S&P Capital IQ Equity Research has ranked a universe of U.S. common stocks, ADRs (American Depositary Receipts), and ADSs (American Depositary Shares) based on a given equity's potential for future performance. Similarly, we have ranked Asian and European equities since June 30, 2002. Under proprietary STARS (Stock Appreciation Ranking System), equity analysts rank equities according to their individual forecast of an equity's future total return potential versus the expected total return of a relevant benchmark (e.g., a regional index [S&P Asia 50 Index, S&P Europe 350® Index or S&P 500® Index]), based on a 12-month time horizon. STARS was designed to meet the needs of investors looking to put their investment decisions in perspective. Data used to assist in determining the STARS ranking may be the result of the analyst's own models as well as internal proprietary models resulting from dynamic data inputs.

#### S&P Global Market Intelligence's Quality Ranking

(also known as **S&P Capital IQ Earnings & Dividend Rankings**) - Growth and stability of earnings and dividends are deemed key elements in establishing S&P Global Market Intelligence's earnings and dividend rankings for common stocks, which are designed to encapsulate the nature of this record in a single symbol. It should be noted, however, that the process also takes into consideration certain adjustments and modifications deemed desirable in establishing such rankings. The final score for each stock is measured against a scoring matrix determined by analysis of the scores of a large and representative sample of stocks. The range of scores in the array of this sample has been aligned with the following ladder of rankings:

A+	Highest	B	Below Average
A	High	B-	Lower
A-	Above Average	C	Lowest
B+	Average	D	In Reorganization
NR	Not Ranked		

#### EPS Estimates

CFRA's earnings per share (EPS) estimates reflect analyst projections of future EPS from continuing operations, and generally exclude various items that are viewed as special, non-recurring, or extraordinary. Also, EPS estimates reflect either forecasts of equity analysts; or, the consensus (average) EPS estimate, which are independently compiled by S&P Global Market Intelligence, a data provider to CFRA. Among the items typically excluded from EPS estimates are asset sale gains; impairment, restructuring or merger-related charges; legal and insurance settlements; in process research and development expenses; gains or losses on the extinguishment of debt; the cumulative effect of accounting changes; and earnings related to operations that have been classified by the company as discontinued. The inclusion of some items, such as stock option expense and recurring types of other charges, may vary, and depend on such factors as industry practice, analyst judgment, and the extent to which some types of data is disclosed by companies.

#### 12-Month Target Price

The equity analyst's projection of the market price a given security will command 12 months hence, based on a combination of intrinsic, relative, and private market valuation metrics, including Fair Value.

#### CFRA Equity Research

CFRA Equity Research is produced and distributed by Accounting Research & Analytics, LLC d/b/a CFRA ["CFRA US"; together with its affiliates and subsidiaries, "CFRA"]. Certain research is produced and distributed by Standard & Poor's Malaysia Sdn. Bhd ["CFRA Malaysia"]. Certain research is distributed by CFRA UK Limited ["CFRA UK"]. CFRA UK and CFRA Malaysia are wholly-owned subsidiaries of CFRA US.

#### Abbreviations Used in Equity Research Reports

CAGR	- Compound Annual Growth Rate
CAPEX	- Capital Expenditures
CY	- Calendar Year
DCF	- Discounted Cash Flow
DDM	- Dividend Discount Model
EBIT	- Earnings Before Interest and Taxes
EBITDA	- Earnings Before Interest, Taxes, Depreciation & Amortization
EPS	- Earnings Per Share
EV	- Enterprise Value
FCF	- Free Cash Flow
FFO	- Funds From Operations

FY	- Fiscal Year
P/E	- Price/Earnings
P/NAV	- Price to Net Asset Value PEG Ratio - P/E-to-Growth Ratio PV - Present Value
R&D	- Research & Development ROCE - Return on Capital Employed ROE - Return on Equity
ROI	- Return on Investment
ROIC	- Return on Invested Capital
ROA	- Return on Assets
SG&A	- Selling, General & Administrative Expenses
SOTP	- Sum-of-The-Parts
WACC	- Weighted Average Cost of Capital

**Dividends on American Depositary Receipts (ADRs) and American Depositary Shares (ADSs) are net of taxes (paid in the country of origin).**

#### Qualitative Risk Assessment

Reflects an equity analyst's view of a given company's operational risk, or the risk of a firm's ability to continue as an ongoing concern. The Qualitative Risk Assessment is a relative ranking to the U.S. STARS universe, and should be reflective of risk factors related to a company's operations, as opposed to risk and volatility measures associated with share prices. For an ETF this reflects on a capitalization-weighted basis, the average qualitative risk assessment assigned to holdings of the fund.

#### STARS Ranking system and definition:

##### ★★★★★ 5-STARs (Strong Buy):

Total return is expected to outperform the total return of a relevant benchmark, by a notable margin over the coming 12 months, with shares rising in price on an absolute basis.

##### ★★★★★ 4-STARs (Buy):

Total return is expected to outperform the total return of a relevant benchmark over the coming 12 months, with shares rising in price on an absolute basis.

##### ★★★★★ 3-STARs (Hold):

Total return is expected to closely approximate the total return of a relevant benchmark over the coming 12 months, with shares generally rising in price on an absolute basis.

##### ★★★★★ 2-STARs (Sell):

Total return is expected to underperform the total return of a relevant benchmark over the coming 12 months, and the share price is not anticipated to show a gain.

##### ★★★★★ 1-STAR (Strong Sell):

Total return is expected to underperform the total return of a relevant benchmark by a notable margin over the coming 12 months, with shares falling in price on an absolute basis.

#### Relevant benchmarks:

In North America, the relevant benchmark is the S&P 500 Index, in Europe and in Asia, the relevant benchmarks are the S&P Europe 350 Index and the S&P Asia 50 Index, respectively.

## PACCAR Inc

### Disclosures

S&P GLOBAL™ is used under license. The owner of this trademark is S&P Global Inc. or its affiliate, which are not affiliated with CFRA Research or the author of this content.

Stocks are ranked in accordance with the following ranking methodologies:

#### STARS Stock Reports:

Qualitative STARS recommendations are determined and assigned by equity analysts. For reports containing STARS recommendations refer to the Glossary section of the report for detailed methodology and the definition of STARS rankings.

#### Quantitative Stock Reports:

Quantitative recommendations are determined by ranking a universe of common stocks based on 5 measures or model categories: Valuation, Quality, Growth, Street Sentiment, and Price Momentum. In the U.S., a sixth sub-category for Financial Health will also be displayed. Percentile scores are used to compare each company to all other companies in the same universe for each model category. The five (six) model category scores are then weighted and rolled up into a single percentile ranking for that company. For reports containing quantitative recommendations refer to the Glossary section of the report for detailed methodology and the definition of Quantitative rankings.

#### STARS Stock Reports and Quantitative Stock Reports:

The methodologies used in STARS Stock Reports and Quantitative Stock Reports (collectively, the "Research Reports") reflect different criteria, assumptions and analytical methods and may have differing recommendations. The methodologies and data used to generate the different types of Research Reports are believed by the author and distributor reasonable and appropriate. Generally, CFRA does not generate reports with different ranking methodologies for the same issuer. However, in the event that different methodologies or data are used on the analysis of an issuer, the methodologies may lead to different views or recommendations on the issuer, which may at times result in contradicting assessments of an issuer. CFRA reserves the right to alter, replace or vary models, methodologies or assumptions from time to time and without notice to clients.

#### STARS Stock Reports:

Global STARS Distribution as of March 31, 2018

Ranking	North America	Europe	Asia	Global
Buy	38.2%	31.0%	36.8%	36.9%
Hold	56.4%	55.2%	43.7%	54.8%
Sell	5.3%	13.7%	19.5%	8.4%
Total	100.0%	100.0%	100.0%	100.0%

#### Analyst Certification:

**STARS Stock Reports are prepared by the equity research analysts of CFRA and its affiliates and subsidiaries. Quantitative Stock Reports are prepared by CFRA. All of the views expressed in STARS Stock Reports accurately reflect the research analyst's personal views regarding any and all of the subject securities or issuers; all of the views expressed in the Quantitative Stock Reports accurately reflect the output of CFRA's algorithms and programs. Analysts generally update STARS Stock Reports at least four times each year. Quantitative Stock Reports are generally updated weekly. No part of analyst, CFRA, CFRA affiliate, or CFRA subsidiary compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in any Stock Report.**

#### About CFRA Equity Research's Distributors:

This Research Report is published and originally distributed by Accounting Research & Analytics, LLC d/b/a CFRA ("CFRA US"), with the following exceptions: In the UK/EU/EEA, it is published and originally distributed by CFRA UK Limited ("CFRA UK"), which is regulated by the Financial Conduct Authority (No. 775151), and in Malaysia by Standard & Poor's Malaysia Sdn. Bhd ("CFRA Malaysia"), which is regulated by Securities Commission Malaysia, (No. CMSL/A0181/2007) under license from CFRA US. These parties and their subsidiaries maintain no responsibility for reports redistributed by third parties such as brokers or financial advisors.

#### General Disclosure

##### Notice to all jurisdictions:

**Where Research Reports are made available in a language other than English** and in the case of inconsistencies between the English and translated versions of a Research Report, **the English version will control and supersede any ambiguities associated with any part or section of a Research Report that has been issued in a foreign language.** Neither CFRA nor its affiliates guarantee the accuracy of the translation.

Neither CFRA nor its affiliates guarantee the accuracy of the translation. The content of this report and the opinions expressed herein are those of CFRA based upon publicly-available information that CFRA believes to be reliable and the opinions are subject to change without notice. This analysis has not been submitted to, nor received approval from, the United States Securities and Exchange Commission or any other regulatory body. While CFRA exercised due care in compiling this analysis, CFRA AND ALL RELATED ENTITIES SPECIFICALLY DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, to the full extent permitted by law, regarding the accuracy, completeness, or usefulness of this information and assumes no liability with respect to the consequences of relying on this information for investment or other purposes.

No content (including ratings, credit-related analyses and data, valuations, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of CFRA. The Content shall not be used for any unlawful or unauthorized purposes. CFRA and any third-party providers, as well as their directors, officers, shareholders, employees or agents do not guarantee the accuracy, completeness, timeliness or availability of the Content.

#### Past performance is not necessarily indicative of future results.

This document may contain forward-looking statements or forecasts; such forecasts are not a reliable indicator of future performance.

This report is not intended to, and does not, constitute an offer or solicitation to buy and sell securities or engage in any investment activity. This report is for informational purposes only. Recommendations in this report are not made with respect to any particular investor or type of investor. Securities, financial instruments or strategies mentioned herein may not be suitable for all investors and this material is not intended for any specific investor and does not take into account an investor's particular investment objectives, financial situations or needs. Before acting on any recommendation in this material, you should consider whether it is suitable for your particular circumstances and, if necessary, seek professional advice.

CFRA may license certain intellectual property or provide services to, or otherwise have a business relationship with, certain issuers of securities that are the subject of CFRA research reports, including exchange-traded investments whose investment objective is to substantially replicate the returns of a proprietary index of CFRA. In cases where CFRA is paid fees that are tied to the amount of assets invested in a fund or the volume of trading activity in a fund, investment in the fund may result in CFRA receiving compensation in addition to the subscription fees or other compensation for services rendered by CFRA, however, no part of CFRA's compensation for services is tied to any recommendation or rating. Additional information on a subject company may be available upon request.

CFRA's financial data provider is S&P Global Market Intelligence. THIS DOCUMENT CONTAINS COPYRIGHTED AND TRADE SECRET MATERIAL DISTRIBUTED UNDER LICENSE FROM S&P GLOBAL MARKET INTELLIGENCE. FOR RECIPIENT'S INTERNAL USE ONLY.

The Global Industry Classification Standard (GICS®) was developed by and/or is the exclusive property of MSCI, Inc. and S&P Global Market Intelligence. GICS is a service mark of MSCI and S&P Global Market Intelligence and has been licensed for use by CFRA.

#### Other Disclaimers and Notices

Certain information in this report is provided by S&P Global, Inc. and/or its affiliates and subsidiaries (collectively "S&P Global"). Such information is subject to the following disclaimers and notices: "Copyright © 2018, S&P Global Market Intelligence [and its affiliates as applicable]. All rights reserved. Nothing contained herein is investment advice and a reference to a particular investment or security, a credit rating or any observation concerning a security or investment provided by S&P Global is not a recommendation to buy, sell or hold such investment or security or make any other investment decisions. This may contain information obtained from third parties, including ratings from credit ratings agencies. Reproduction and distribution of S&P Global's information and third party content in any form is prohibited except with the prior written permission of S&P Global or the related third party, as applicable. Neither S&P Global nor its third party providers guarantee the accuracy, completeness, timeliness or availability of any information, including ratings, and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such information or content. S&P GLOBAL AND ITS THIRD PARTY CONTENT PROVIDERS GIVE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE AND ALL S&P INFORMATION IS PROVIDED ON AN AS-IS BASIS. S&P GLOBAL AND ITS THIRD PARTY CONTENT PROVIDERS SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, EXEMPLARY, COMPENSATORY, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES, COSTS, EXPENSES, LEGAL FEES, OR LOSSES (INCLUDING LOST INCOME OR PROFITS AND OPPORTUNITY COSTS OR LOSSES CAUSED BY NEGLIGENCE) IN CONNECTION WITH ANY USE OF THEIR INFORMATION OR CONTENT, INCLUDING RATINGS. Credit ratings are statements of opinions and are not statements of fact or recommendations to purchase, hold or sell securities. They do not address the suitability of securities or the suitability of securities for investment purposes, and should not be relied on as investment advice."

Certain information in this report may be provided by Securities Evaluations, Inc. ("SE"), a wholly owned subsidiary of Intercontinental Exchange. SE is a registered investment adviser with the United States Securities and Exchange Commission (SEC). SE's advisory services include evaluated pricing and model valuation of fixed income securities, derivative valuations and Odd-Lot Pricing that consists of bid- and ask-side evaluated prices for U.S. Municipal and U.S. Corporate Securities (together called valuation services). Such information is subject to the following disclaimers and notices: "No content (including credit-related analyses and data, valuations, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of SE. The Content shall not be used for any unlawful or unauthorized purposes. SE and any third-party providers, as well as their directors, officers, shareholders, employees or agents (collectively SE Parties) do not guarantee the accuracy, completeness, timeliness or availability of the Content. SE Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for the results obtained from the use of the Content, or for the security or maintenance of any data input by the user. The Content is provided on an "as is" basis. SE PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT'S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION.

## PACCAR Inc

In no event shall SE Parties be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Content even if advised of the possibility of such damages. Credit-related and other analyses and statements in the Content are statements of opinion as of the date they are expressed and not statements of fact or recommendations to purchase, hold, or sell any securities or to make any investment decisions. SE assumes no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. SE's opinions and analyses do not address the suitability of any security. SE does not act as a fiduciary or an investment advisor. While SE has obtained information from sources it believes to be reliable, SE does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives. Valuations services are opinions and not statements of fact or recommendations to purchase, hold or sell any security or instrument, or to make any investment decisions. The information provided as part of valuations services should not be intended as an offer, promotion or solicitation for the purchase or sale of any security or other financial instrument nor should it be considered investment advice. Valuations services do not address the suitability of any security or instrument, and securities, financial instruments or strategies mentioned by SE may not be suitable for all investors. SE does not provide legal, accounting or tax advice, and clients and potential clients of valuation services should consult with an attorney and/or a tax or accounting professional regarding any specific legal, tax or accounting provision(s) applicable to their particular situations and in the countries and jurisdictions where they do business. SE has redistribution relationships that reflect evaluated pricing, derivative valuation and/or equity pricing services of other unaffiliated firms with which SE has contracted to distribute to its client base. Pricing and data provided by these third-party firms are the responsibilities of those firms, and not SE, and are produced under those firms' methodologies, policies and procedures. Valuations services provided by SE and products containing valuations services may not be available in all countries or jurisdictions. Copyright © 2018 by Intercontinental Exchange Inc. All rights reserved."

Any portions of the fund information contained in this report supplied by Lipper, A Thomson Reuters Company, are subject to the following: "Copyright © 2018 Thomson Reuters. All rights reserved. Lipper shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon."

### For residents of the European Union/European Economic Area:

Research reports are originally distributed by CFRA UK Limited [company number 08456139 registered in England & Wales with its registered office address at 1PD Box 698, Titchfield House, 69-85 Tabernacle Street, London, EC2A 4RR, United Kingdom]. CFRA UK Limited is regulated by the UK Financial Conduct Authority [No. 775151].

### For residents of Malaysia:

Research reports are originally produced and distributed by Standard & Poor's Malaysia Sdn. Bhd ("CFRA Malaysia"), a wholly-owned subsidiary of CFRA US. CFRA Malaysia is regulated by Securities Commission Malaysia [License No. CMSL/A0181/2007].

### For residents of all other countries:

Research reports are originally distributed Accounting Research & Analytics, LLC d/b/a CFRA.

Copyright © 2018 CFRA. All rights reserved. CFRA and STARS are registered trademarks of CFRA.