



# Amkor Technology, Inc. Investor Presentation

November 2020

# Disclaimer

## Forward-Looking Statement Disclaimer

All information and other statements contained in this presentation, other than statements of historical fact, constitute forward-looking statements within the meaning of federal securities laws. These forward-looking statements involve a number of risks, uncertainties, assumptions and other factors that could affect our future results and cause actual results and events to differ materially from our historical and expected results and those expressed or implied in these forward-looking statements. Our historical financial information, and the risks and other important factors that could affect the outcome of the events set forth in these statements and that could affect our operating results and financial condition, are contained in our filings with the Securities and Exchange Commission, including our Form 10-K for the 2019 year and subsequent filings. We undertake no obligation to review or update any forward-looking statements to reflect events or circumstances occurring after this presentation, except as may be required by law

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From time to time we may provide financial guidance in our earnings releases and make other forward-looking statements. Our financial guidance and other forward-looking statements are effective only on the date given. In accordance with our policy, we will not update, reaffirm or otherwise comment on any prior financial guidance or other forward-looking statements in connection with this presentation. No reference made to any prior financial guidance or other forward-looking statements in connection with this presentation should be construed to update, reaffirm or otherwise comment on such prior financial guidance or other forward-looking statements.

## Non-GAAP Measures

This presentation contains certain measures that are not defined terms under U.S. generally accepted accounting principles (“U.S. GAAP”). These non-GAAP measures should not be considered in isolation or as a substitute for, or superior to, measures of liquidity or performance prepared in accordance with U.S. GAAP and may not be comparable to calculations of similarly titled measures by other companies. See “Financial Reconciliation Tables”, “Non-GAAP Measures” and “End Notes” in the Appendix.

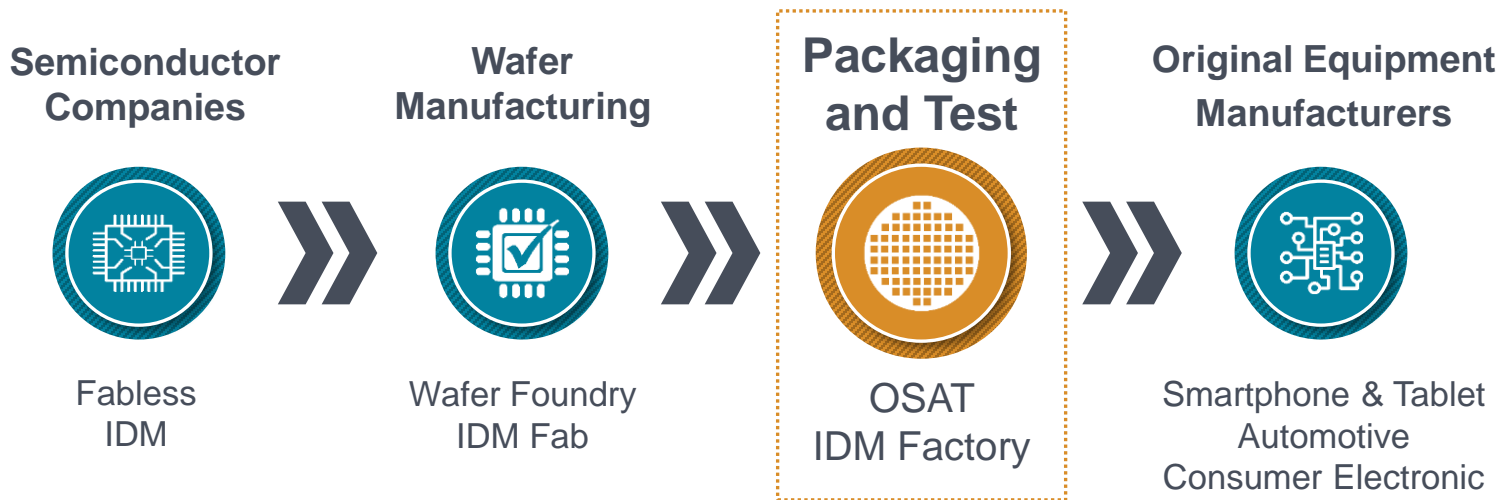
# Amkor Technology

- ▶ Trusted Outsourced Semiconductor Assembly and Test (OSAT) partner since 1968
- ▶ Advanced packaging leader
- ▶ #1 OSAT for Automotive ICs
- ▶ \$4.1B sales in 2019

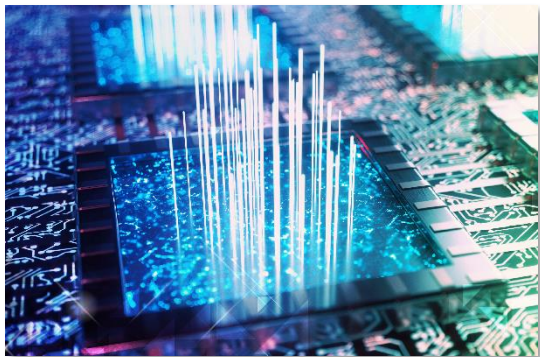


# Amkor in the Supply Chain

Amkor's packaging and test services are an integral part of the worldwide semiconductor supply chain



# Amkor's Differentiators



## Technology

- ▶ Advanced Packaging Leadership
- ▶ Engineering Services
- ▶ Broad Portfolio



## Quality

- ▶ QualityFIRST Culture
- ▶ Execution
- ▶ Automation



## Service

- ▶ Design Through Drop Ship
- ▶ Manufacturing Footprint
- ▶ Local Sales & Support

# Best-In-Class R&D

- ▶ 600+ R&D engineers
- ▶ Design services in 8 countries
- ▶ Fast time to market
- ▶ Complete toolbox of engineering services

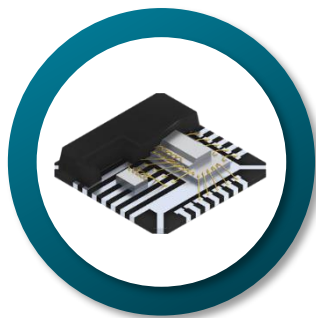


# Complete Package and Test Portfolio

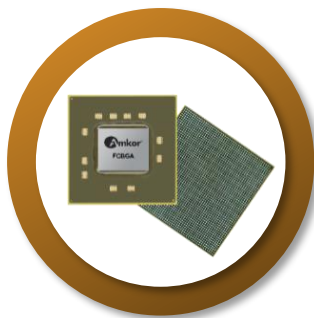
Turnkey services from wafer sort through drop ship



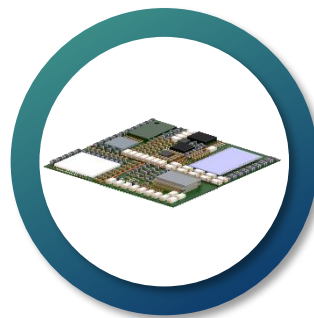
Leadframe/  
Power



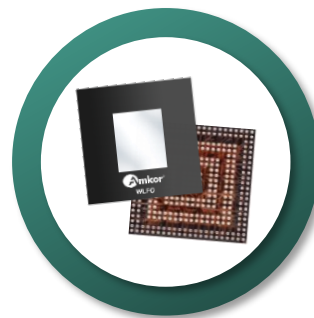
MEMS



Flip Chip



SiP



Wafer Level

# Broad Geographic Footprint

11 million square feet of manufacturing space



# Growth Catalysts Rely on Advanced Packaging

## 5G



- ▶ Mobile comms
- ▶ Connected devices
- ▶ Speed, streaming

## IoT



- ▶ Connected home
- ▶ Wearables
- ▶ Industrial automation

## Automotive



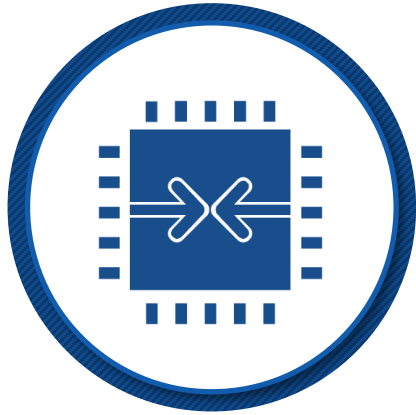
- ▶ ADAS
- ▶ Safety
- ▶ Infotainment
- ▶ Electrification

## HPC/ Networking

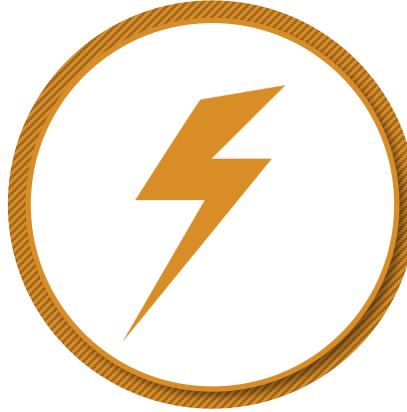


- ▶ AI/AR
- ▶ Data center

# Advanced Packaging Value Proposition



Minimize  
Footprint



Manage  
Power

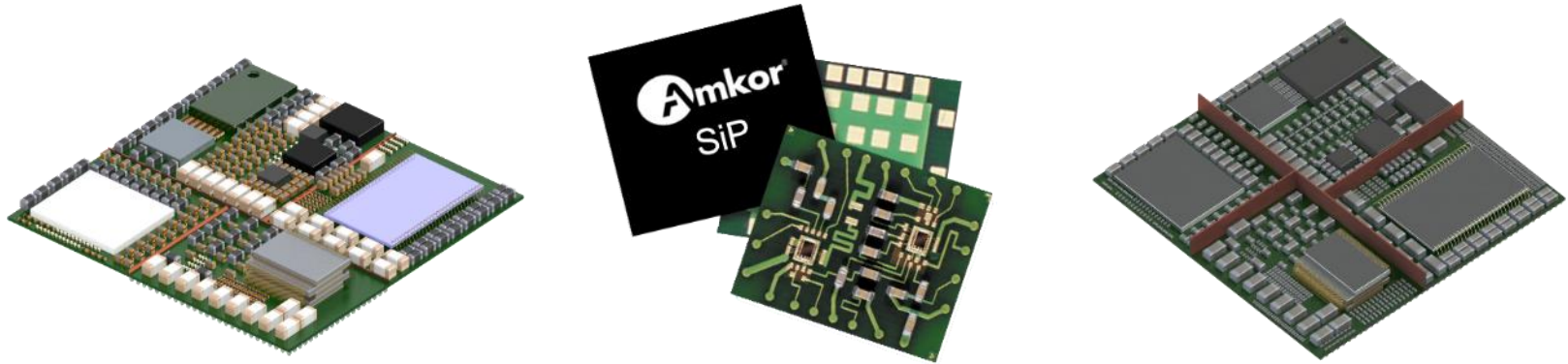


Improve  
Performance

# Advanced System in Package (SiP)

Integrates multiple IC's of different functionalities into a single package

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# Wafer Level Packaging

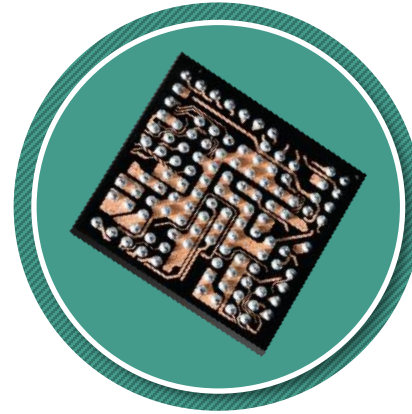


**WLCSP**

**Wafer Level Chip Scale Package**

(Fan-In)

Eliminates substrate



**WLFO**

**Wafer Level Fan-Out**

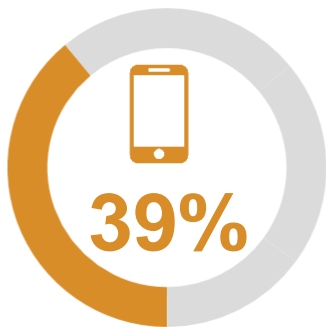
“Stretch” small die to  
accommodate bond pads

# Flip Chip

- ▶ A proven technology
  - ▷ High reliability
  - ▷ Single and multi-die solutions
- ▶ Applications in smartphones, automotive and high-performance computing



# LTM 3Q 2020 End Markets



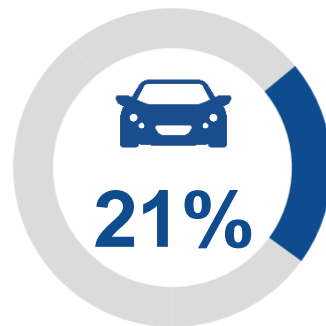
## Communications

Handheld Devices  
Smartphones  
Tablets



## Consumer

Connected Home  
Set-Top Box  
Televisions  
Visual Imaging  
Wearables



## Automotive & Industrial

Driver Assist  
Infotainment  
Performance  
Safety



## Computing

Data Center  
Infrastructure  
PC/Laptop  
Storage

# Amkor Throughout the Smartphone Communications

## Value Propositions

- ▶ Recognized technology leader
- ▶ Diverse packaging solutions
- ▶ Large scale manufacturing in multiple geographies

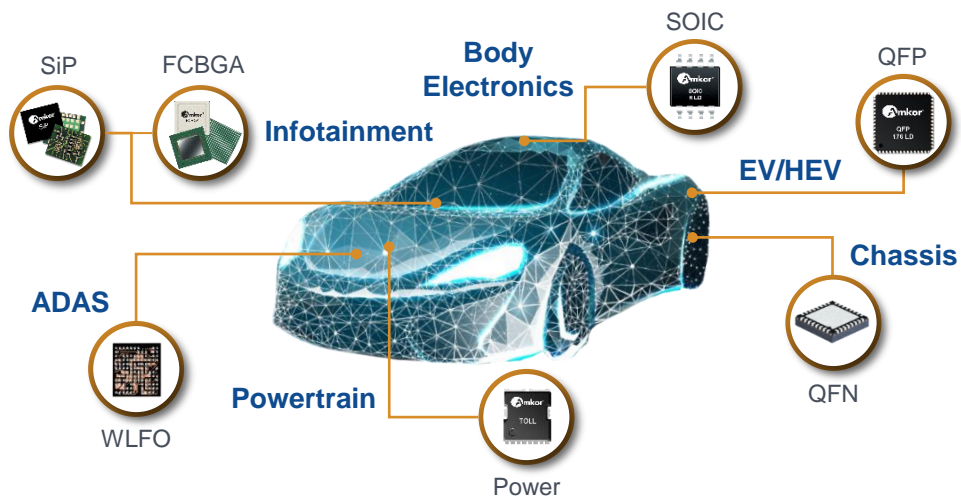


# Amkor Enabling New Applications in the Car

## Largest Automotive OSAT

### Advanced Packages

### Wirebond Packages



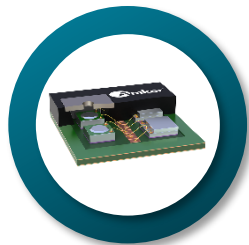
### Value Propositions

- ▶ >40 yrs of Automotive experience
- ▶ QualityFIRST mindset
- ▶ Leader in advanced Automotive packaging

# Amkor Makes IoT Possible

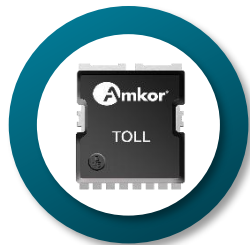
## Consumer

### Multiple Applications



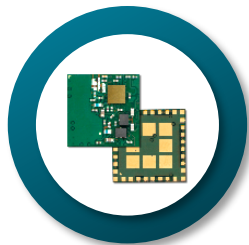
Connectivity  
Sensing  
Computing  
Storage

### Diverse Requirements



Power  
Bandwidth  
Integration  
Security

### Scale



Amkor ships  
billions of IoT  
devices per year!



# Amkor Supports All Big Data Requirements

## Computing



### Data Center

HPC, AI, ML  
Performance  
FCBGA, HDFO, SiP



### Networking

Switch, SerDes  
Integration  
SiP, HDFO, 2.5D



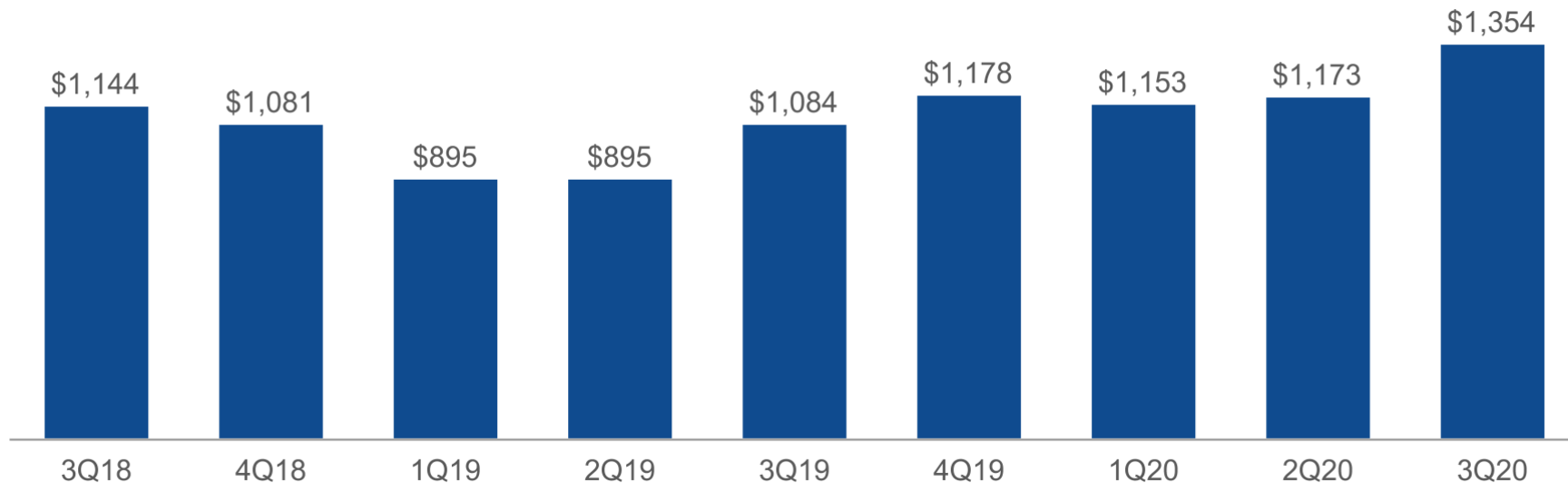
### Storage

Solid State Drive  
Die Stacking  
Stack CSP, WBBGA, SiP

# Revenue Trends

(\$ in millions)

+ 25% YoY

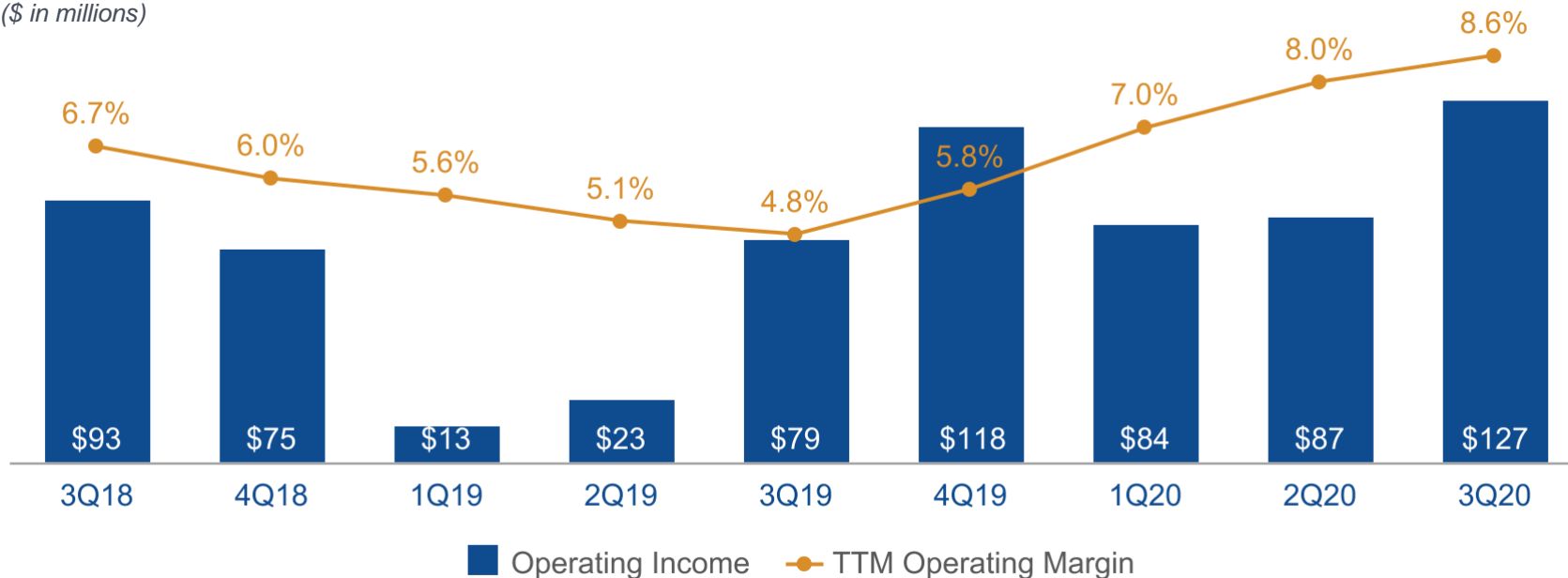


TTM Revenue

\$4,386	\$4,316	\$4,186	\$4,016	\$3,955	\$4,053	\$4,310	\$4,588	\$4,858
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# Operating Income Trends

(\$ in millions)

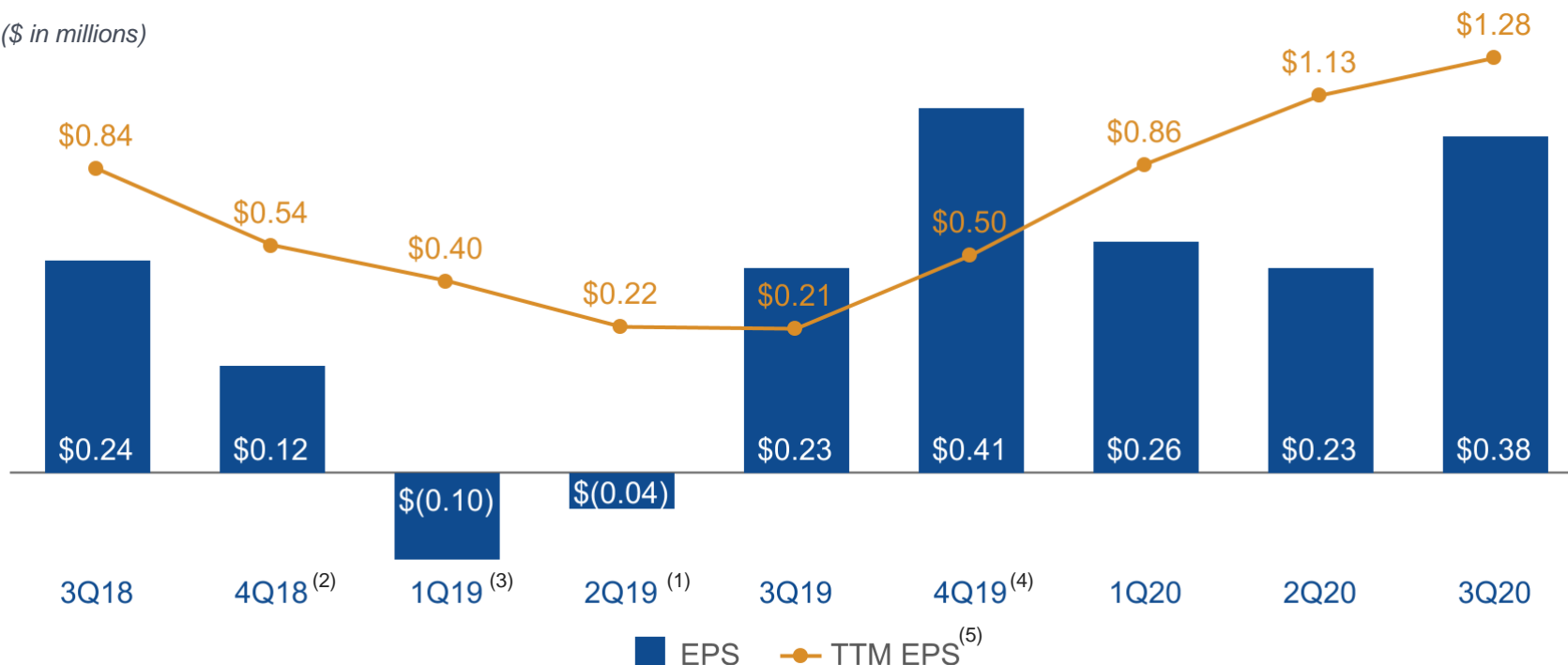


TTM Operating Income

\$292	\$258	\$235	\$204	\$190	\$233	\$304	\$368	\$416
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# EPS Trends

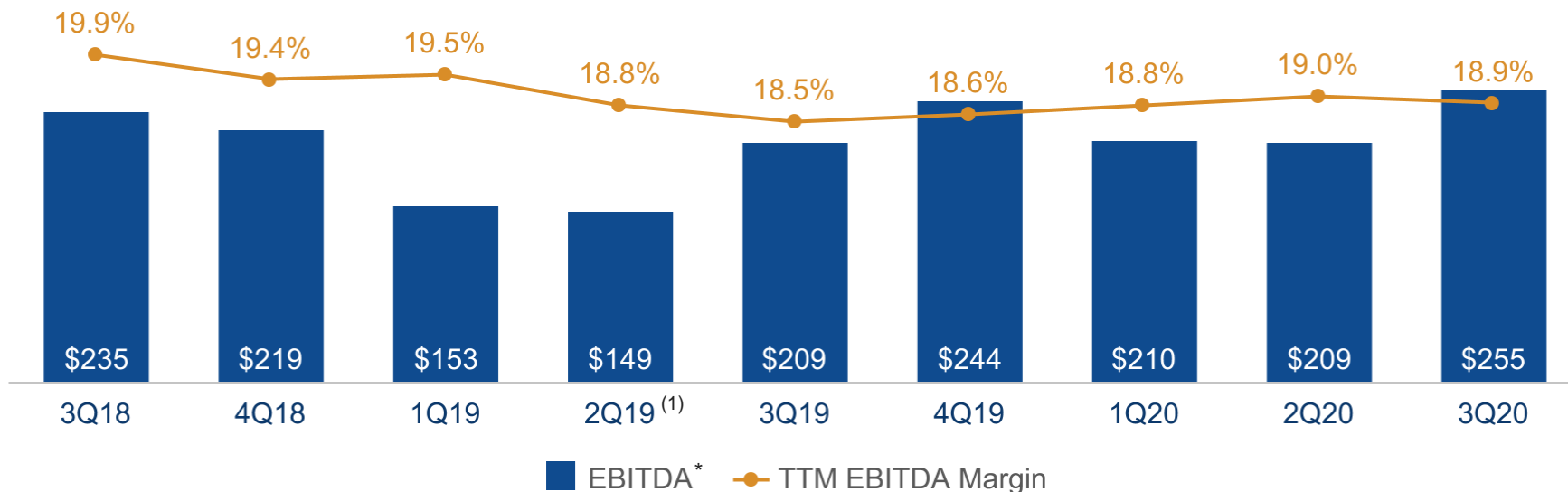
(\$ in millions)



(1), (2), (3), (4), and (5): See notes on page 33.

# EBITDA Trends

(\$ in millions)



TTM EBITDA<sup>(6)</sup>

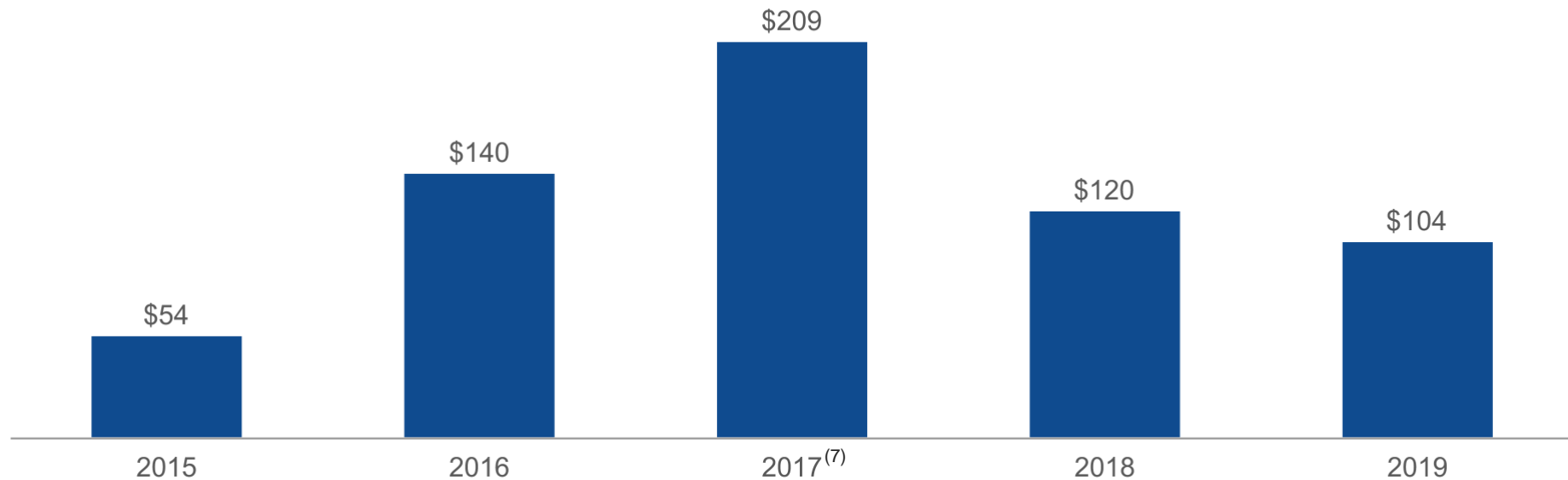
\$872	\$837	\$815	\$756	\$730	\$755	\$812	\$872	\$918
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(1) and (6): See notes on page 33.

\*See discussion of Non-GAAP measures on page 32.

# Free Cash Flow

(\$ in millions)

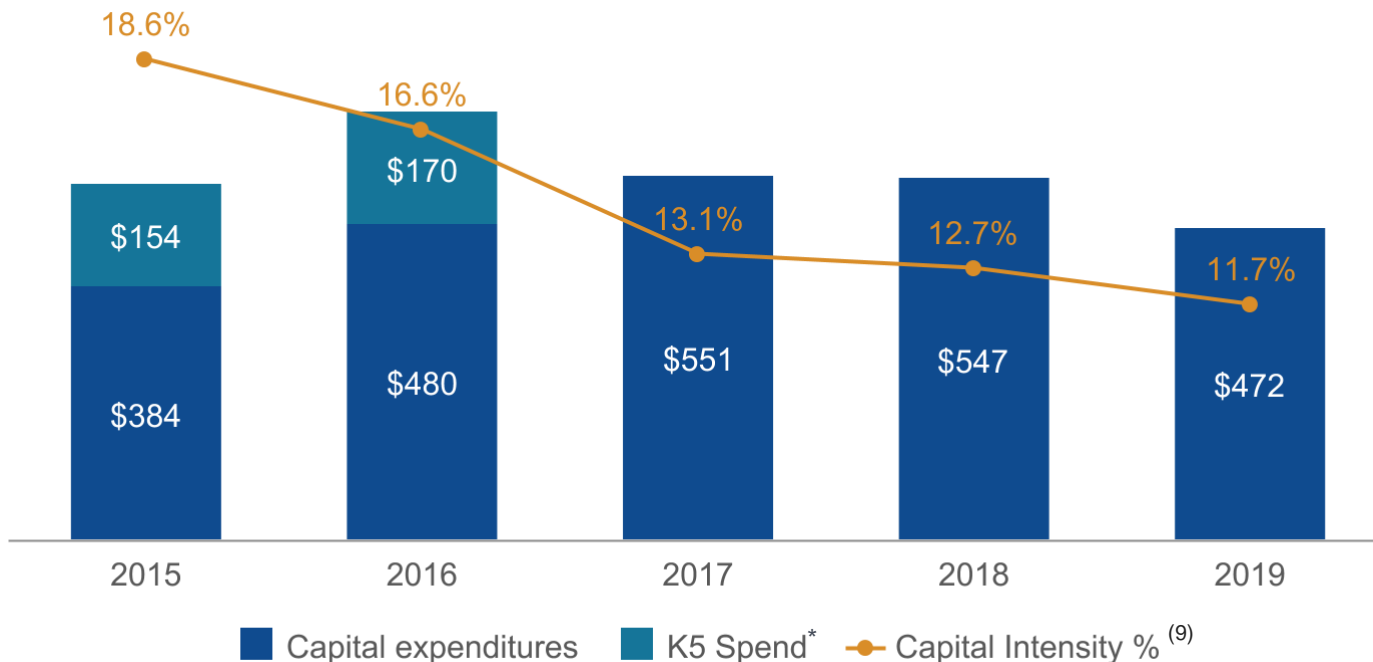


(7) and (8) Free Cash Flow definition: See notes on page 33.

\*See discussion of Non-GAAP measures on page 32.

# Capital Expenditures and Capital Intensity

(\$ in millions)



Expect 2020 Capital Expenditures<sup>(10)</sup> of Around

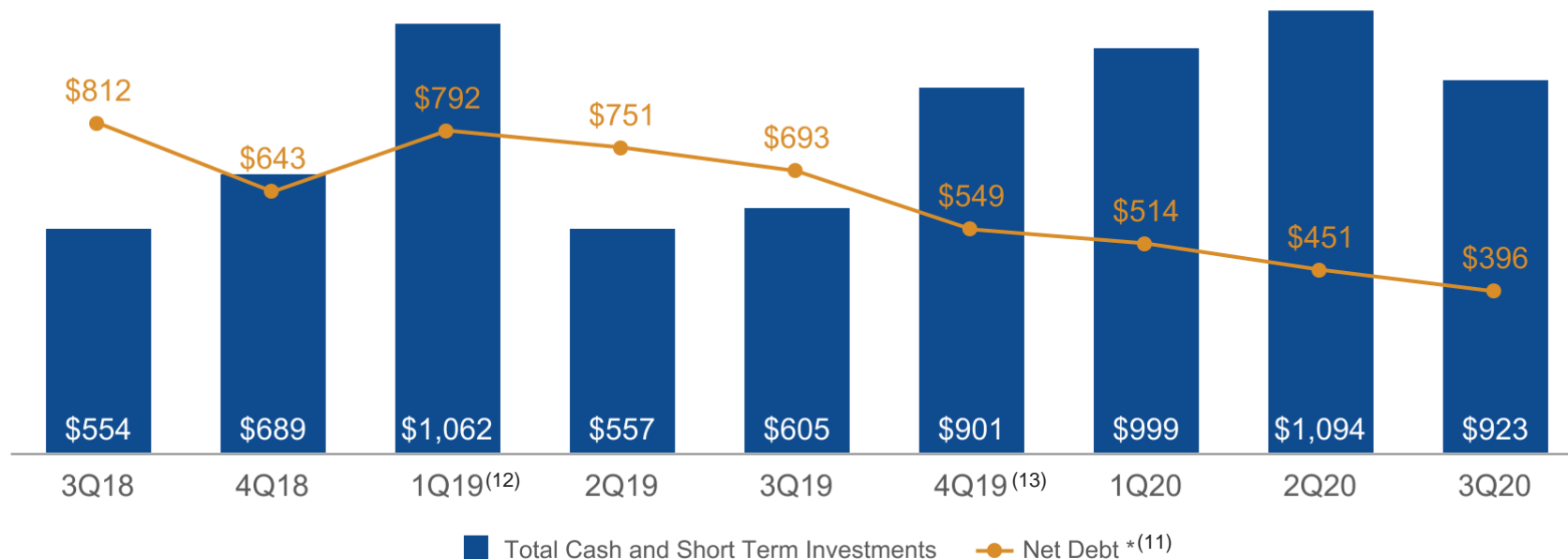
**\$550M**

(9) and (10): See notes on page 33.

\*K5 Spend refers to the construction of our K5 facility in Korea, which started operations in 2017.

# Balance Sheet Profile

(\$ in millions)



(11), (12), and (13): See notes on page 33.

\*See discussion of Non-GAAP measures on page 32.

# Amkor Summary

- ▶ Industry leader
- ▶ Multiple long-term growth drivers
  - ▷ 5G, IoT, Automotive, HPC
- ▶ Strongest balance sheet in Amkor's history
- ▶ Well-positioned for growth
  - ▷ Capitalizing on Amkor's position in the highest-growth semiconductor markets



A world map with a light blue background. The landmasses are outlined in white. Overlaid on the map are various geometric shapes in shades of blue and teal, including triangles, squares, and polygons, some of which are semi-transparent. The word "Appendix" is written in a dark blue, sans-serif font on the left side of the map.

# Appendix

# 3Q20 Highlights

<i>(In millions, except per share data)</i>	<b>3Q 2020</b>	<b>3Q 2019</b>	<b>YoY</b>
Net Sales	\$1,354	\$1,084	25%
Gross Margin	17.8%	16.8%	100 bps
Operating Expense	\$114	\$103	10%
Operating Income	\$127	\$79	62%
Operating Margin	9.4%	7.3%	210 bps
Net Income attributable to Amkor	\$92	\$54	\$38
Earnings per Diluted Share	\$0.38	\$0.23	\$0.15

- All time record revenue
- YoY growth driven by strength in Consumer and Communications
- Operating income margin increased 210 bps YoY

# 4Q20 Guidance

As of October 26, 2020<sup>(10)</sup>

*(In millions, except per share data)*



**\$1,250-\$1,350**

Net Sales



**17.0%-20.0%**

Gross Margin



**\$68-\$115**

Net Income  
Attributable to  
Amkor



**\$0.28-\$0.47**

Earnings per  
Diluted Share

(10): See note on page 33.

# Financial Reconciliation Tables

(\$ in millions)	4Q17 <sup>(5)</sup>	1Q18	2Q18	3Q18	4Q18 <sup>(2)</sup>	1Q19 <sup>(3), (12)</sup>	2Q19 <sup>(1)</sup>	3Q19	4Q19 <sup>(4), (13)</sup>	1Q20	2Q20	3Q20
<b>Net Income</b>	<b>\$101</b>	<b>\$10</b>	<b>\$33</b>	<b>\$57</b>	<b>\$29</b>	<b>\$(23)</b>	<b>\$(9)</b>	<b>\$54</b>	<b>\$100</b>	<b>\$64</b>	<b>\$56</b>	<b>\$93</b>
Plus: Interest Expense (including Related Party)	20	20	21	20	18	19	19	17	17	17	16	16
<b>Plus: Income Tax Expense</b>	<b>(14)</b>	<b>2</b>	<b>11</b>	<b>14</b>	<b>29</b>	<b>21</b>	<b>6</b>	<b>9</b>	<b>1</b>	<b>5</b>	<b>13</b>	<b>16</b>
Plus: Depreciation & Amortization	147	143	143	144	143	136	133	129	126	124	124	130
<b>EBITDA*</b>	<b>\$254</b>	<b>\$175</b>	<b>\$208</b>	<b>\$235</b>	<b>\$219</b>	<b>\$153</b>	<b>\$149</b>	<b>\$209</b>	<b>\$244</b>	<b>\$210</b>	<b>\$209</b>	<b>\$255</b>
<b>TTM EBITDA*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$872</b>	<b>\$837</b>	<b>\$815</b>	<b>\$756</b>	<b>\$730</b>	<b>\$755</b>	<b>\$812</b>	<b>\$872</b>	<b>\$918</b>
<b>TTM Net Sales</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$4,386</b>	<b>\$4,316</b>	<b>\$4,186</b>	<b>\$4,016</b>	<b>\$3,955</b>	<b>\$4,053</b>	<b>\$4,310</b>	<b>\$4,588</b>	<b>\$4,858</b>
<b>TTM EBITDA Margin*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19.9%</b>	<b>19.4%</b>	<b>19.5%</b>	<b>18.8%</b>	<b>18.5%</b>	<b>18.6%</b>	<b>18.8%</b>	<b>19.0%</b>	<b>18.9%</b>
<b>Total Debt</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$1,366</b>	<b>\$1,332</b>	<b>\$1,854</b>	<b>\$1,308</b>	<b>\$1,298</b>	<b>\$1,450</b>	<b>\$1,513</b>	<b>\$1,545</b>	<b>\$1,319</b>
Less: Cash and Cash Equivalents	-	-	-	(548)	(682)	(1,055)	(551)	(599)	(895)	(941)	(783)	(567)
Less: Short Term Investment	-	-	-	(6)	(7)	(7)	(6)	(6)	(6)	(58)	(311)	(356)
<b>Net Debt*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$812</b>	<b>\$643</b>	<b>\$792</b>	<b>\$751</b>	<b>\$693</b>	<b>\$549</b>	<b>\$514</b>	<b>\$451</b>	<b>\$396</b>

(1), (2), (3), (4), (5), (12), and (13): See notes on page 33.

\*See discussion of Non-GAAP measures on page 32.

# Financial Reconciliation Tables

<i>(\$ in millions)</i>	2015	2016	2017 <sup>(7)</sup>	2018	2019
<b>Net Cash Provided by Operating Activities</b>	<b>\$585</b>	<b>\$729</b>	<b>\$618</b>	<b>\$663</b>	<b>\$564</b>
Less: Payments for Property, Plant and Equipment	(538)	(650)	(551)	(547)	(472)
Plus: Proceeds from Sale of and Insurance Recovery for Property, Plant and Equipment	7	61	142	4	12
<b>Free Cash Flow*</b>	<b>\$54</b>	<b>\$140</b>	<b>\$209</b>	<b>\$120</b>	<b>\$104</b>

(7): See note on page 33.

\*See discussion of Non-GAAP measures on page 32.

# Non-GAAP Measures

Generally, a non-GAAP financial measure is a numerical measure of a company's performance, financial position or cash flows that either excludes or includes amounts that are not normally excluded or included in the most directly comparable measure calculated and presented in accordance with U.S. GAAP.

EBITDA is not defined by U.S. GAAP. We define EBITDA as net income before interest expense, income tax expense and depreciation and amortization. We believe EBITDA to be relevant and useful information to our investors because it provides additional information in assessing our financial operating results. Our management uses EBITDA in evaluating our operating performance, our ability to service debt and our ability to fund capital expenditures. However, EBITDA has certain limitations in that it does not reflect the impact of certain expenses on our consolidated statements of income, including interest expense, which is a necessary element of our costs because we have borrowed money in order to finance our operations, income tax expense, which is a necessary element of our costs because taxes are imposed by law, and depreciation and amortization, which is a necessary element of our costs because we use capital assets to generate income. EBITDA should be considered in addition to, and not as a substitute for, or superior to, operating income, net income or other measures of financial performance prepared in accordance with U.S. GAAP. Furthermore our definition of EBITDA may not be comparable to similarly titled measures reported by other companies.

Free cash flow is not defined by U.S. GAAP. We define free cash flow as net cash provided by operating activities less payments for property, plant and equipment, plus proceeds from the sale of, and insurance recovery for property, plant and equipment, if applicable. We believe free cash flow to be relevant and useful information to our investors because it provides them with additional information in assessing our liquidity, capital resources and financial operating results. Our management uses free cash flow in evaluating our liquidity, our ability to service debt and our ability to fund capital expenditures. However, free cash flow has certain limitations, including that it does not represent the residual cash flow available for discretionary expenditures since other, non-discretionary expenditures, such as mandatory debt service, are not deducted from the measure. The amount of mandatory versus discretionary expenditures can vary significantly between periods. This measure should be considered in addition to, and not as a substitute for, or superior to, other measures of liquidity or financial performance prepared in accordance with U.S. GAAP, such as net cash provided by operating activities. Furthermore, our definition of free cash flow may not be comparable to similarly titled measures reported by other companies.

Net Debt is not defined by U.S. GAAP. We define net debt as total debt as reported on the consolidated balance sheet less the sum of cash and cash equivalents, and short-term investments. We believe net debt to be relevant and useful information to our investors because it provides them with additional information in assessing our capital structure, financial leverage, and our ability to reduce debt and to fund investing and financing activities. This measure should be considered in addition to, and not as a substitute for, or superior to, total debt, prepared in accordance with U.S. GAAP. Furthermore, our definition of net debt may not be comparable to similarly titled measures reported by other companies.

# Endnotes

1. Q2 2019 net income includes an \$8 million charge, or \$0.03 per share, related to the early redemption of \$525 million of our 6.375% Senior Notes due 2022.
2. Q4 2018 net income includes a \$17 million discrete income tax charge, or \$0.07 per diluted share, driven by finalizing the accounting for U.S. tax reform.
3. Q1 2019 net income includes a \$15 million non-cash discrete income tax charge, or \$0.06 per diluted share, to reduce the value of certain deferred tax assets.
4. Q4 2019 net income includes a \$4 million discrete income tax benefit, or \$0.01 per diluted share, primarily related to changes in the valuation of certain deferred tax assets.
5. Q4 2017 net income includes an estimated one-time tax benefit of \$42 million, or \$0.17 per diluted share, primarily due to the reversal of a valuation allowance on certain U.S. deferred tax assets as a result of the enactment of U.S. tax reform.
6. EBITDA is defined as net income before interest expense, income tax expense and depreciation and amortization. In addition, we define EBITDA Margin as EBITDA as a percentage of Net Sales. Please see reconciliation of non-GAAP measures on page 30.
7. In Q2 2017, we sold the land and buildings comprising our K1 factory for \$142 million, which resulted in a pre-tax gain of \$108 million, or \$0.34 per diluted share. During 2017, we received \$128 million of the proceeds.
8. Free cash flow is defined as net cash provided by operating activities less payments for property, plant and equipment, plus proceeds from the sale of, and insurance recovery for, property, plant and equipment, if applicable. Please see reconciliation of non-GAAP measures on page 31.
9. Capital intensity is defined as capital expenditures as a percentage of net sales.
10. This financial guidance is from our October 26, 2020 earnings release and is reproduced here for convenience of reference only. This reference is not intended, and should not be relied upon, as a reaffirmation or other commentary with respect to such financial guidance. Please see page 2.
11. Net debt is defined as total debt as reported on the consolidated balance sheet less the sum of cash and cash equivalents, and short-term investments. Please see reconciliation of non-GAAP measures on page 30.
12. In Q1 2019, we issued \$525 million of our 6.625% Senior Notes due September 2027 and used the proceeds to redeem our \$525 million aggregate principal amount of 6.375% Senior Notes due 2022. The redemption of the 2022 Notes occurred in April 2019, thus increasing our outstanding debt at Q1 2019 period end.
13. In Q1 2020, we repaid \$120 million of our term loan due December 2023 with proceeds from a term loan entered into in December 2019, thus increasing our outstanding debt at Q4 2019 period end.