

# UNLEASHING THE LIMITLESS POTENTIAL OF THE CREATIVE MIND Altair







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# Company Overview

James R. Scapa • Founder, Chairman and CEO



### **OUR VISION**

### To transform product design and organizational decision making

### by applying simulation, optimization and high performance computing

throughout product lifecycles

**Broad software suite** to design and optimize complex, highly engineered products

Well-positioned to gain share in large, growing markets

**Global blue-chip customer base** across industries

Powerful business model drives high engagement & retention, and high recurring revenue

Attractive combination of scale, profitable growth, and margin expansion opportunities

### ALTAIR AT A GLANCE

Long heritage of solving some of the most challenging engineering problems



2,000+ Engineers, scientists, and creative thinkers

Customer installations globally

in 24 countries

### **OUR BUSINESS**

	Software	CES	Innovation
		<b>Ť †</b> Ť	
FY16 Revenue % of total	\$260M 83%	<mark>\$48M</mark> 15%	\$6M 2%
Offerings	<ul> <li>Simulation / Digital Twin platform</li> <li>Simulation-driven Design</li> <li>Simulation-driven Design</li> </ul>	Long-term ongoing engineering, design and development expertise	<b>()</b> toggled®
	■ High Performance Computing (HPC) PBS Works		WEYV <sup>**</sup>
	IoT Platforms and Visual Analytics carries		



### PRINCIPAL DRIVERS OF GROWTH FOR SIMULATION

Fundamental transformations in product engineering

Increasing sophistication and fidelity of simulation technologies

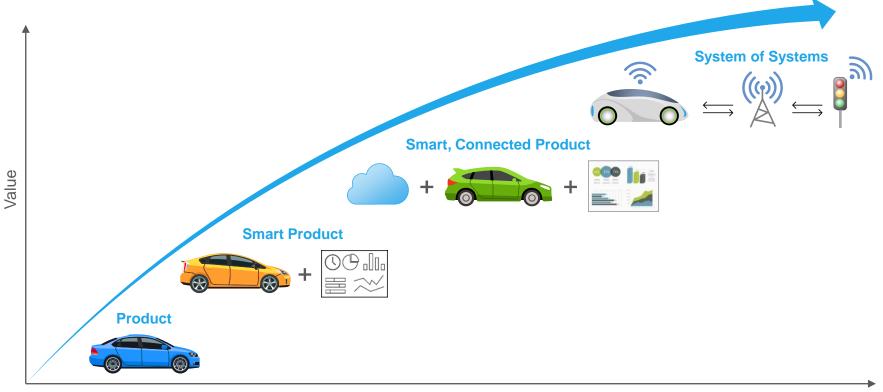
**Democratization** of simulation

An emerging paradigm of simulation-driven design

Expanding scope of simulations to "Digital Twins"

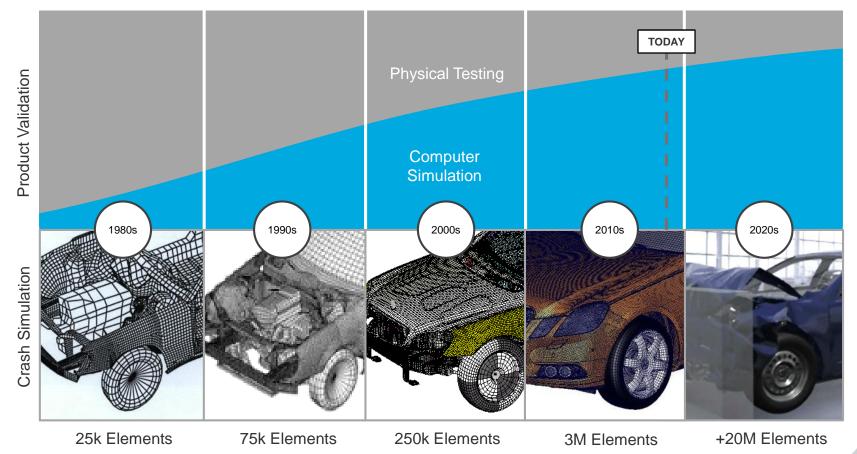


### EVOLUTION OF PRODUCT COMPLEXITY



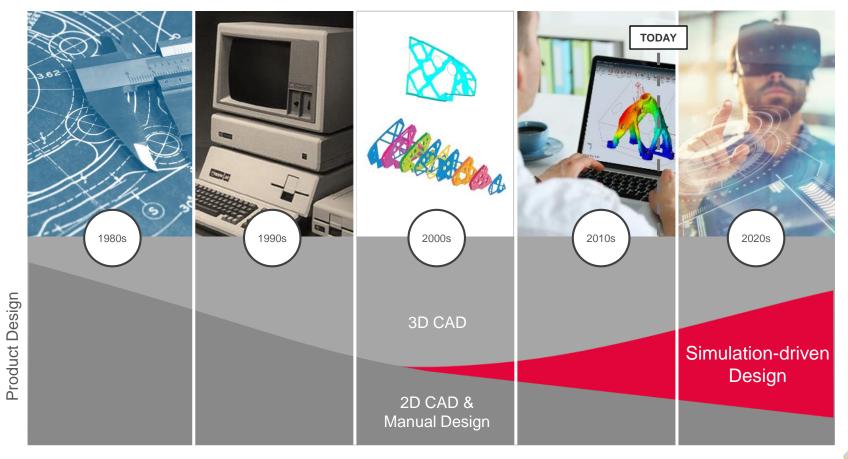
Time

### SIMULATION INCREASINGLY COMPLEX, DISPLACING PHYSICAL TESTING

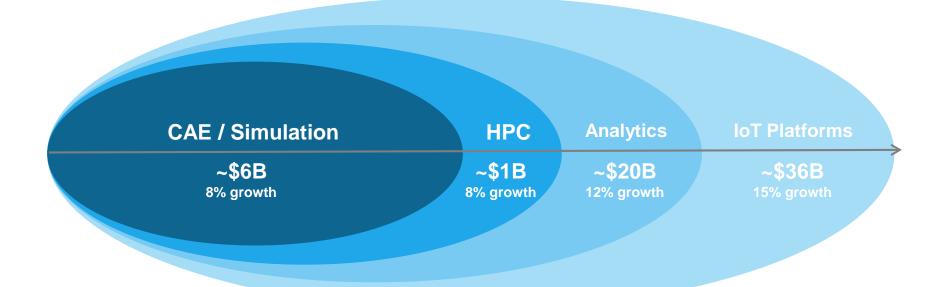


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### **EVOLUTION OF SIMULATION-DRIVEN DESIGN**



## WAVES OF CHANGE ARE EXPANDING OUR MARKET OPPORTUNITY

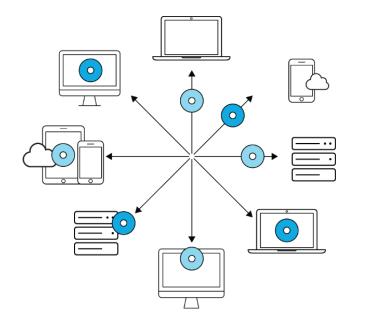


CIMdata expects the CAE market, "will be one of the more rapidly growing segments within the tools sector of PLM over the next five years, and forecasts that this market sector will exceed \$7.8 billion in 2021, with an 8.1% CAGR."

"We are truly in the era of simulation-driven engineering."

### DIFFERENTIATED UNITS-BASED SUBSCRIPTION LICENSING MODEL

Results in high retention, visibility and recurring revenues



Customers purchase a pool of sharable units

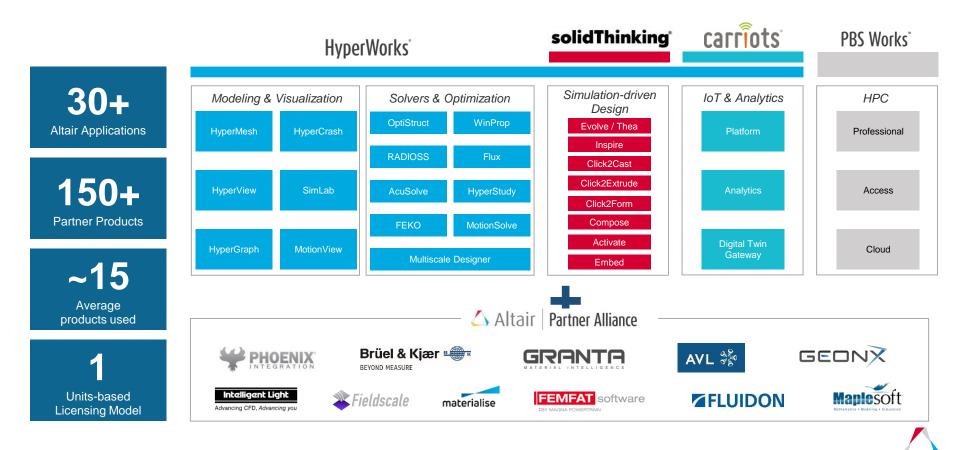
Users draw units to utilize ANY product across ANY location

Units return to the pool after use and become available to all users

Average customer uses ~15 products

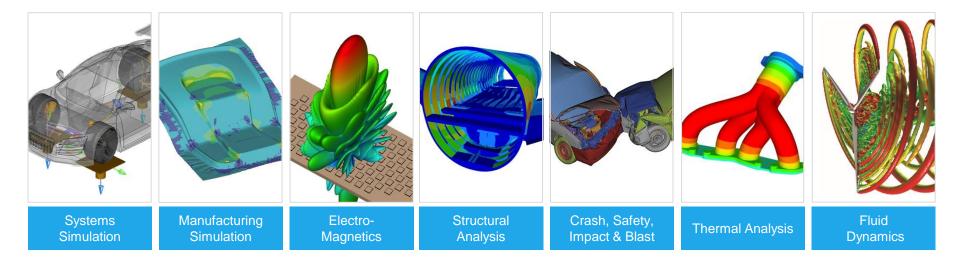


## ONE COMPREHENSIVE PLATFORM FOR SIMULATION NEEDS



### BROAD PORTFOLIO OF SOLVERS ACROSS MULTIPLE PHYSICS TYPES

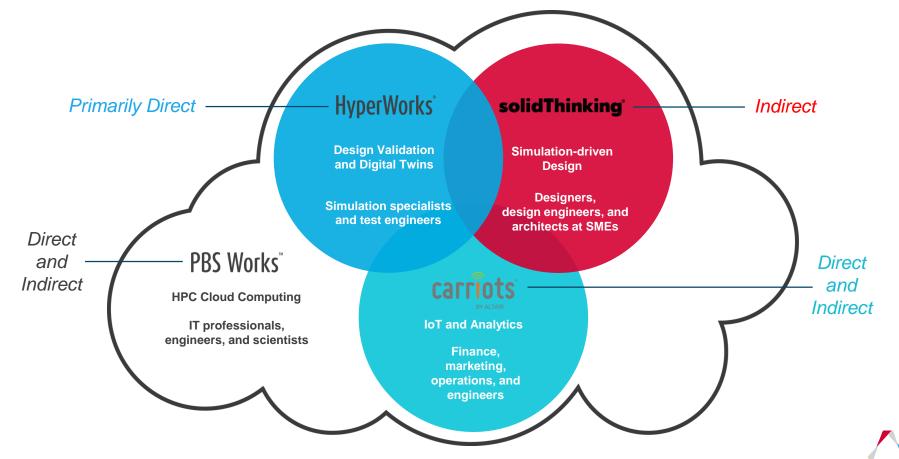
Interconnected, smart products demand optimization across multiple physics to create cutting-edge designs



### Altair is driving the multi-physics optimization opportunity



### OUR MARKETS, BRANDS, AND USERS



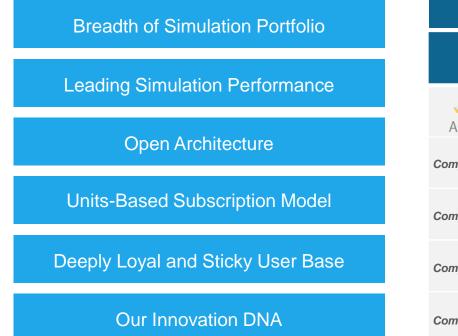
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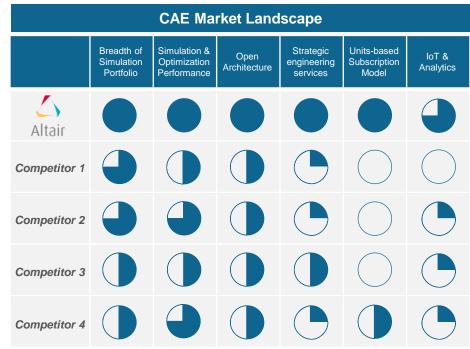
## GLOBAL BLUE-CHIP CUSTOMER BASE ACROSS INDUSTRIES





### WHY WE WIN





### SOFTWARE GROWTH OPPORTUNITIES

Grow market share for **solvers** and the expanding **cloud HPC** market

Build awareness and traction for our model-based design software solutions

Disrupt the traditional market with simulation-driven design

Leverage our customer portfolio, scale, and expertise in the **IoT** market with **platform**, **analytics**, **and digital-twin** simulations

### SOFTWARE GROWTH STRATEGIES

Increase software usage within our existing customer base

Invest in our direct sales force and indirect sales channels

Continue to invest in **R&D** 

Selectively pursue acquisitions and strategic investments

## FOUNDER-LED, WITH A DEEP BENCH OF INDUSTRY VETERANS



James R. Scapa Founder, Chairman & CEO *(32 years)* 



Howard N. Morof Chief Financial Officer (4 years)



Brett Chouinard President (23 years)



Massimo Fariello Chief Strategy Officer (24 years)



James Dagg Chief Technical Officer (30 years)



Dr. Uwe Schramm Chief Technical Officer (21 years)



Sam Mahalingam Chief Technical Officer (19 years)



Jeffery M. Brennan Chief Marketing Officer (25 years)



Martin Nichols Chief Information Officer (25 years)



Tom Perring Chief Administrative Officer (24 years)



Years denote tenure at Altair



## **Financial Overview**

Howard N. Morof • CFO



Scaled business with global presence and attractive revenue growth

**Recurring model** with high visibility and predictability

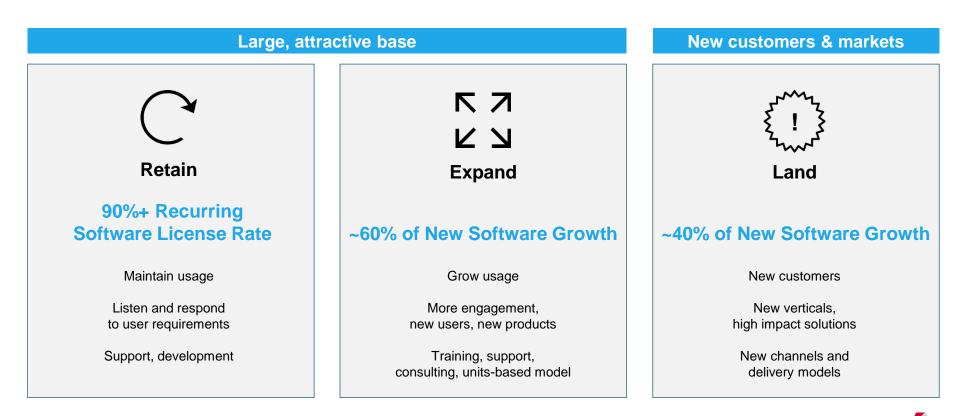
Powerful "retain, expand, and land" strategy

Strong free cash flow generation

Proven profitability with significant operating leverage opportunities

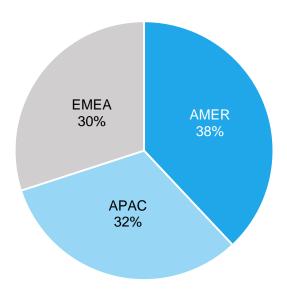


### POWERFUL "RETAIN, EXPAND, AND LAND" STRATEGY



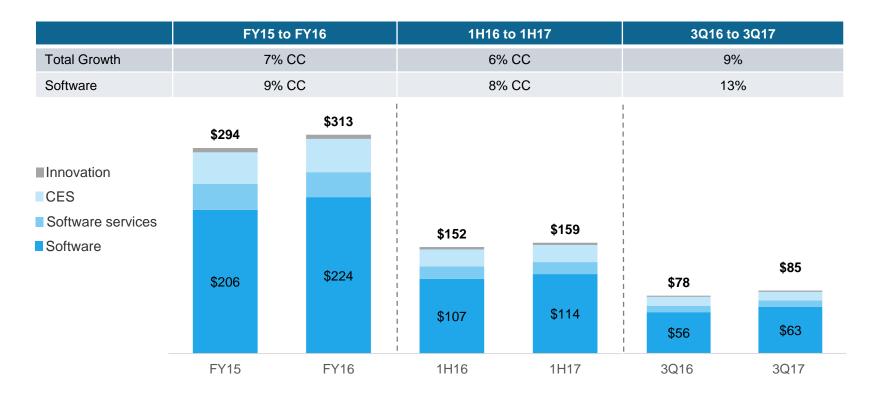
### **GLOBALLY DIVERSIFIED BUSINESS**

Billings Mix FY16: \$321M





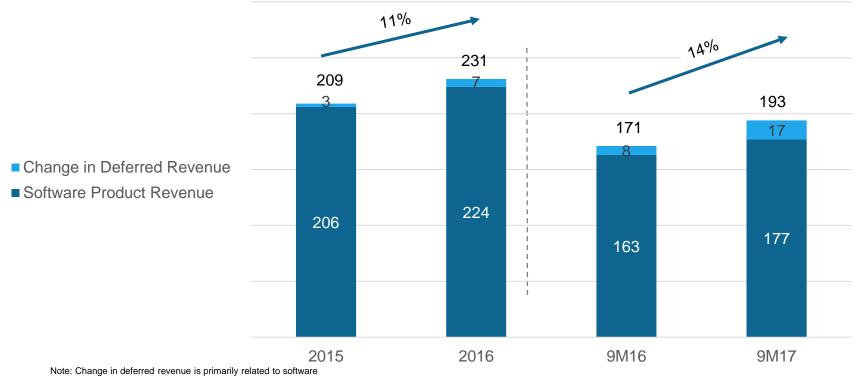
## ATTRACTIVE REVENUE PROFILE



Constant currency ("CC"): Calculated from the current month activity at the prior average rate for that month. Year-to-date is the total of each month. Constant currency impact for 3Q16 to 3Q17 is not significant.

### SOFTWARE MOMENTUM

### Software Revenue + Change in Deferred Revenue (\$M)



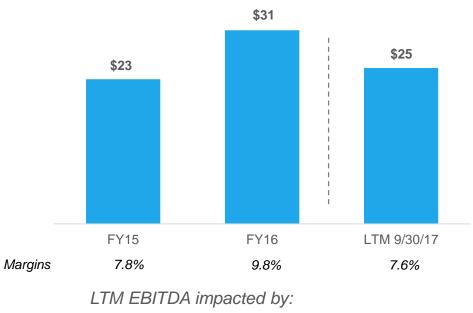
## FY16 GROSS PROFIT MARGINS AND OPERATING EXPENSES

Operating Expenses % of
Research & Development
Sales & Marketing
General & Administrative
Total OpEx

Note: Operating expense items exclude stock-based compensation and depreciation (removed from G&A); R&D net of refundable R&D tax credits



### ADJUSTED EBITDA



- Strategic investments in new products
- Foreign currency effects

Note: Adjusted EBITDA excludes stock-based compensation; <sup>1</sup> R&D net of refundable R&D tax credits



### STRONG FREE CASH FLOW GENERATION

Free Cash Flow (\$M)



Note: FCF defined as operating cash flow less capex

<sup>1</sup> Excludes non-recurring \$4M purchase of real property adjacent to corporate headquarters in 4Q16

<sup>2</sup> Adjusted for Modeliis asset acquisition of \$2.0M and timing of refundable foreign R&D credit of \$2.3M



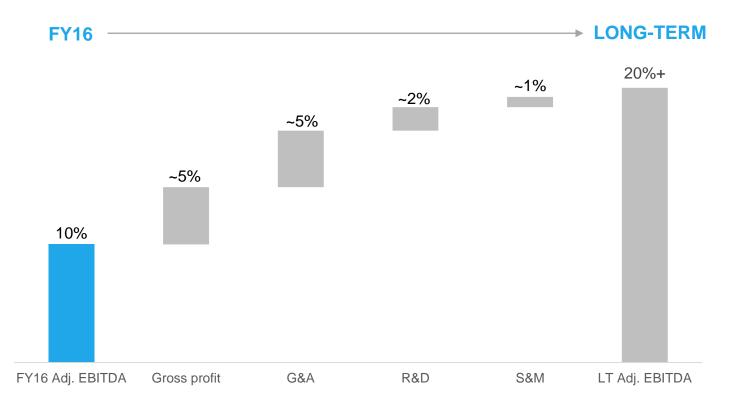
### LONG-TERM TARGET OPERATING MODEL

	FY16	LONG-TERM
Software Product % of total revenue	71%	75%+
Total Gross Margin	67%	71-73%
Research and Development	21%	19-20%
Sales and Marketing	21%	19-21%
General and Administrative	15%	9-12%
Adjusted EBITDA Margin	10%	20%+

Note: Operating expense items exclude stock-based compensation, and exclude depreciation and amortization; depreciation substantially booked within G&A; R&D net of refundable R&D tax credits



### ADJUSTED EBITDA MARGIN: FY16 TO LONG-TERM TARGET



Note: Operating expense items exclude stock-based compensation, and exclude depreciation and amortization; depreciation within G&A; R&D net of R&D grants



### STRONG BALANCE SHEET, SIGNIFICANT LIQUIDITY

\$M	9/30/17	<i>Pro Forma</i> 9/30/17 <sup>1</sup>
Cash and Cash Equivalents	\$16.7	\$39.8
Total debt <sup>2</sup>	92.1	<1.0

<sup>1</sup>Pro forma calculations assume IPO net proceeds from issuance at \$13.00 per share including 1.8mm overallotment shares; proceeds used to pay down the revolver and term loan. In addition to the debt above, other obligations include deferred payment for Runtime of \$8.7M and other previous acquisitions of \$4.7M <sup>2</sup> Total debt primarily comprised of revolving credit facility and Term Loan A and also includes <\$1.0M of capital lease and other debt



### **IN SUMMARY**

### Well positioned in large, growing markets

- Broad, differentiated product suite
- Levered to strong secular drivers

#### **Attractive financial profile**

- Scaled, global and diversified
- Proven profitability with significant operating leverage

### **Unique business model**

- High retention, visibility and recurring revenues
- "Retain, expand and land" global blue chip customer base

### Significant organic and inorganic growth opportunities





Appendix



### GAAP TO NON-GAAP RECONCILIATION

	FY15	FY16	9M16	9M17
Revenue	\$294,129	\$313,240	\$230,392	\$243,466
Ending deferred revenue	106,516	113,929	114,400	130,464
Beginning deferred revenue	(103,287)	(106,516)	(106,516)	(113,929)
Billings	\$297,358	\$320,653	\$238,276	\$260,001
	FY15	FY16	9M16	9M17
Net income (loss)	\$10,931	\$10,163	\$4,267	\$(39,060)
Income tax expense (benefit)	818	3,539	1,954	6,353
Stock-based compensation	597	5,132	5,050	39,302
Interest expense	2,416	2,265	1,754	1,793
Interest income and other	(191)	(249)	(81)	(2,184)
Depreciation and amortization	8,378	9,980	7,300	7,895
Adjusted EBITDA	\$22,949	\$30,830	\$20,244	\$14,099
	FY15	FY16	9M16	9M17
Net cash provided by operating activities	\$10,838	\$21,385	\$21,435	\$17,455
Capital expenditures	(5,233)	(5,444) <sup>1</sup>	(4,722)	(4,367) <sup>2</sup>
Free cash flow	\$5,605	\$15,941	\$16,600	\$13,088

 $^1$  Excludes \$4M purchase of real property adjacent to corporate headquarters  $^2$  Capital expenditures adjusted for Modeliis asset acquisition of \$2M



### **OPERATING EXPENSE RECONCILIATION**

	FY15	FY16	9M FY16	9M FY17
Research and development	\$62,777	\$71,325	\$53,413	\$69,198
Less: SBC	(149)	(1,370)	(1,361)	(10,495)
Less: Other operating income <sub>1</sub>	(2,576)	(2,742)	(1,952)	(4,065) <sub>2</sub>
Research and development (pre-SBC)	\$60,052	\$67,213	\$50,100	\$54,638
% R&D margin (pre-SBC)	20%	21%	22%	22%
Sales and marketing	63,080	66,086	49,054	58,683
Less: SBC	(109)	(775)	(763)	(6,160)
Sales and marketing (pre-SBC)	62,971	65,311	48,291	52,523
% S&M margin (pre-SBC)	21%	21%	21%	22%
General and administrative	54,069	57,202	43,675	66,465
Less: SBC	(295)	(2,965)	(2,911)	(22,305)
Less: Depreciation	(5,754)	(6,658)	(4,948)	(4,608)
General and administrative (pre-SBC)	48,020	47,579	35,816	39,552
% G&A margin (pre-SBC)	16%	15%	16%	16%

<sup>1</sup> Consists primarily of refundable tax credits associated with certain R&D activities

<sup>2</sup> Adjusted for non-recurring legal expenses