

The World's Leading Engineering Simulation Software Provider

Investor Presentation Q2 2017

NASDAQ: ANSS

Important Factors Regarding Future Results

The Company cautions investors that its performance is subject to risks and uncertainties. Some matters that will be discussed throughout this presentation may constitute forward-looking statements that involve risks and uncertainties which could cause actual results to differ materially from those projected. These risks and uncertainties are discussed at length, and may be amended from time to time, in the Company's Annual Report to Stockholders and its filings with the SEC, including our most recent filings on Forms 10-K and 10-Q. We undertake no obligation to publicly update or revise any forward-looking statements, whether changes occur as a result of new information or future events, after the date they were made.



ANSYS is the Simulation Leader

FOCUSED



This is all we do.

Leading product technologies in all physics areas Largest development team focused on simulation TRUSTED

96 of the top 100

FORTUNE 500 Industrials ISO 9001 certified





Recognized as one of the world's **MOST INNOVATIVE**AND FASTEST-GROWING COMPANIES*

INDEPENDENT

Long-term financial stability CAD agnostic



*BusinessWeek, FORTUNE



Comprehensive industry reach and solution offerings

Leading Disciplines





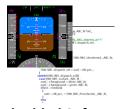








& Rotating Machinery



Fluids

Electromagnetics

Power Integrity

Embedded Software

Materials &

Chemical Processing





Semiconductors

Aerospace

& Defense

Construction

Healthcare

Electronics

World-Class companies leveraging our platform























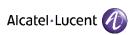




















































5













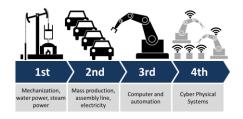
A time of profound industry transformation

Greatest value creation since the industrial revolution

Product complexity is increasing dramatically



Engineering simulation critical to the products of tomorrow



UBER





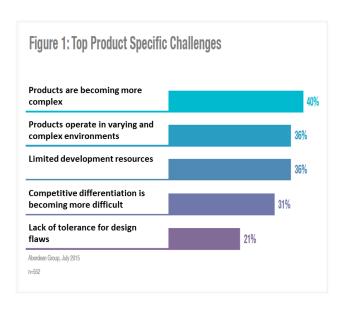




Honeywell



+\$11 trillion potential by 2025



Top 3 technologies that will have the biggest impact on product design and development over the next 5 years?

- 1. Additive Manufacturing
- 2. Engineering Simulation
- 3. Advanced Materials

SIMULATION vs NO SIMULATION Simulated Environments Experience:



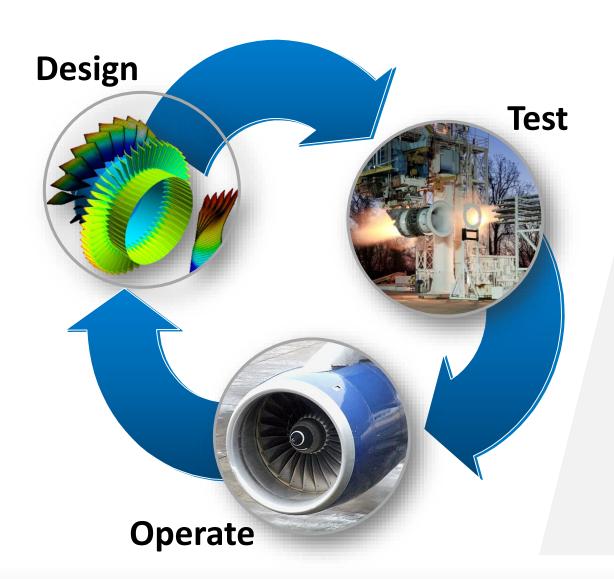


Engineering simulation is becoming pervasive!





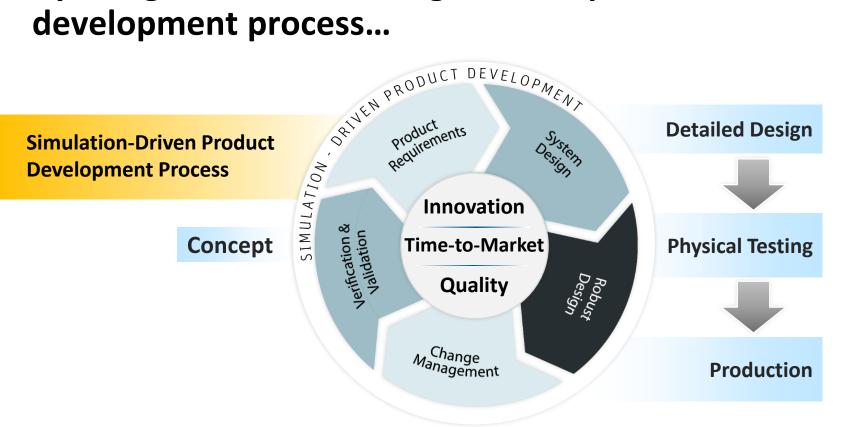
Improving next-generation products and operations



- Design to reality (increase profits, customer for life)
- Compress cycle time/cost (grow market share)
- Best product at best price (sustained growth)



By using simulation throughout the product development process...

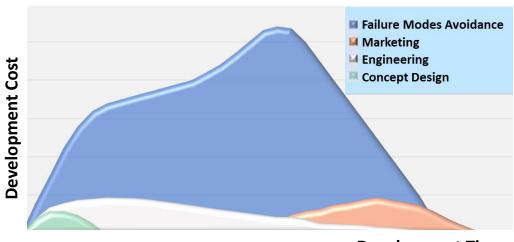


Traditional Product Development Process





...companies are reducing product development cost



Development Time

Relative Product Development Costs



- Design and engineering contributes ~17% of product development costs
- Most costs are spent avoiding failure modes



Source: MIT Study on Product Development Cost Distribution

10

ANSYS complete digital prototype

Comprehensive Solution to Pressing Business Challenges

...as is the value of a platform approach

HOLISTIC DEVELOPMENT VS SILOED DEVELOPMENT

Holistic Development Experiences:

Length of **Development Time**



Overall **Product Cost**



2.5x reduction

Warranty Costs



53% more likely to decrease

Number of Change Orders After Release to Manufacturing



123% more likely to decrease

Percent Successful New Product Introduction (NPI) Rate



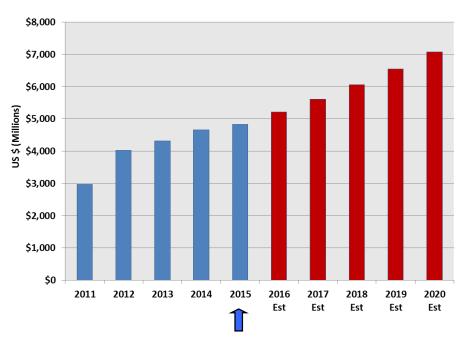
33% more likely to achieve

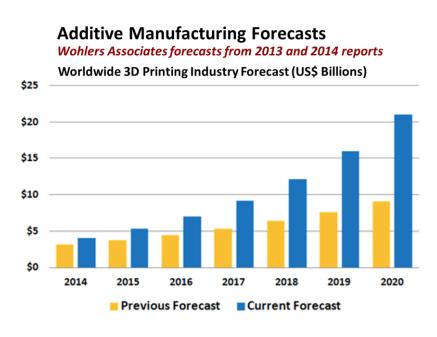


Solid and increasing opportunity

Simulation & Analysis – Investments

Software + services market history and forecast – Five year CAGR estimate = 7.9%



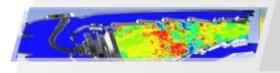






12

Product & technology investments



Frequent Release Program - 18.0

Sustaining Our Competitive Advantage



Cloud & Elastic Licensing

Scaling Simulation on Demand



App Store – ANSYS ACT

Reaching Non-Traditional Users



ANSYS AIM

Simulation for Every Engineer



Internet of Things

Reaching Beyond Engineering Design



Big Data & Analytics

Increasing Simulation Throughput



Additive Manufacturing

New Opportunities for Extreme Customization



Extending our competitive advantage with R18x



STRUCTURES

Next generation capabilities to tackle reliability, fuel efficiency, lightweighting, and safety challenges

Easy to use topology optimization for Additive Manufacturing applications





ELECTRONICS

Shooting and bouncing ray technology to predict antenna performance on electrically large platforms

Faster results with automated broadband adaptive meshing





FLUIDS

Breakthrough harmonic analysis delivers accurate turbomachinery simulations up to 100x faster

ANSYS AIM integration with Fluent for easy prep and meshing



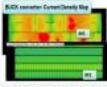




SEMICONDUCTORS

Comprehensive analysis for integrated PMIC designs and advanced 3D-IC designs

1000x faster power profiles in RTL power analysis



Buck Converter



Breakthrough ROM technology, Reuse 3-D physics-based models at system level

> Modelica support for fluid power, liquid cooling and mechanical dynamics





EMBEDDED SOFTWARE

Develop, test, and certify ADAS applications with new automotive package - fulfills ISO-26262 & AUTOSAR.

Avionics package includes FACE capability for efficient software component design fulfills DO-178C





14

Transforming the go-to-market

SALES MARKETING Market coverage **SELLING THE Global platform Enterprise agreements** campaigns **PORTFOLIO Platform adoption DIGITAL Digital marketing Social selling** infrastructure **EVOLUTION Students EXPANDING THE Channel partner Startups** expansion **ECOSYSTEM**



Simulation for every engineer Empowering next-generation engineers



Access



Content



Engagement

Free ANSYS Student product launched Q3 2015

ANSYS AIM Student product launched Q3 2016

+56,000 signed up for Cornell & edX MOOC

Most Hyperloop student teams using ANSYS

All top 25 engineering schools in the US use ANSYS

Over 200,000 downloads of ANSYS Student!



Simulation for every engineer Supporting next-generation engineering companies





















ANSYS Startup Program

Pilot 2015

Incubator Program

Online Startup program 2017+



New consulting offerings – Launched 2016

- Consulting offerings support the adoption of the ANSYS simulation platform
- Paid high-value engagements





- Simulation deployments
- Workflow optimization
- Embedded experts
- Mentoring experts

ANSYS Q2 2017 revenue highlights

QTD NON-GAAP REVENUE COMPARISON									
(in thousands, except percentages)	Q2 2017	% of Total	Q2 2016	% of Total	% Change	% Change in Constant Currency			
Lease	\$ 92,689	35.1 %	\$ 83,169	33.8 %	11.4 %	12.5 %			
Perpetual	57,615	21.8 %	57,918	23.5 %	(0.5)%	(0.2)%			
Maintenance	107,632	40.7 %	98,869	40.2 %	8.9 %	9.8 %			
Service	6,412	2.4 %	6,113	2.5 %	4.9 %	6.0 %			
Total	\$ 264,348		\$ 246,069		7.4 %	8.3 %			

QTD NON-GAAP REVENUE GEOGRAPHIC COMPARISON										
(in thousands, except percentages)	Q2 2017	% of Total	Q2 2016	% of 2016 Total % Chang		% Change in Constant Currency				
North America	\$ 104,9	39.7 %	\$ 92,560	37.6 %	13.4 %	13.5				
Germany	23,0	32 8.7 %	24,662	2 10.0 %	(6.6)%	(4.7)%				
United Kingdom	7,3	2.8 %	9,012	3.7 %	(18.8)%	(10.1)%				
Other Europe	42,5	16.1 %	39,111	15.9 %	8.9 %	10.9 %				
Europe	72,9	27.6 %	72,785	29.6 %	0.2 %	3.0 %				
Japan	32,3	12.2 %	31,250	12.7 %	3.5 %	6.0 %				
Other Asia-Pacific	54,1	.33 20.5 %	49,474	20.1 %	9.4 %	7.7 9				
Asia-Pacific	86,4	89 32.7 %	80,724	32.8 %	7.1 %	7.1 9				
Total	\$ 264,3	48	\$ 246,069		7.4 %	8.3				



ANSYS YTD 2017 revenue highlights

YTD NON-GAAP REVENUE COMPARISON									
(in thousands, except percentages)	Q2 YTD 2017	% of Total	Q2 YTD 2016	% of Total	% Change	% Change in Constant Currency			
Lease	\$ 186,466	36.0 %	\$ 164,835	34.9 %	13.1 %	14.0 %			
Perpetual	105,889	20.4 %	102,330	21.7 %	3.5 %	4.0 %			
Maintenance	212,038	40.9 %	192,563	40.8 %	10.1 %	11.0 %			
Service	13,503	2.6 %	12,350	2.6 %	9.3 %	10.6 %			
Total	\$ 517,896		\$ 472,078		9.7 %	10.5 %			

	YTD NON-G	AAP REVENUE	GEO	GRAPHIC COMPARIS	ON					
(in thousands, except percentages)	Q2 YTD 2017	% of Total		Q2 YTD 2016	% of Total		% Change	!	% Change in Constant Currency	
North America	\$ 209,183	40.4 %	\$	181,401	38.4	%	15.3	%	15.4	. %
Germany	45,724	8.8 %		48,031	10.2	%	(4.8)%	(2.4	.)%
United Kingdom	14,641	2.8 %		17,789	3.8	%	(17.7)%	(7.6)%
Other Europe	82,306	15.9 %		76,042	16.1	%	8.2	%	10.9	%
Europe	142,671	27.5 %		141,862	30.1	%	0.6	%	4.1	. %
Japan	63,794	12.3 %		59,105	12.5	%	7.9	%	8.3	%
Other Asia-Pacific	102,248	19.7 %		89,710	19.0	%	14.0	%	12.3	%
Asia-Pacific	166,042	32.1 %		148,815	31.5	%	11.6	%	10.7	%
Total	\$ 517,896		\$	472,078			9.7	%	10.5	%



ANSYS Financial Highlights

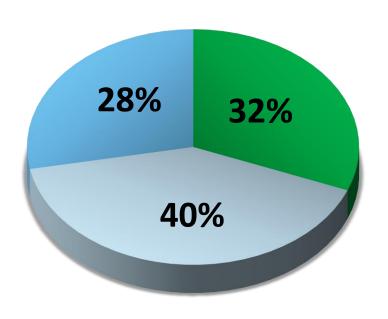
			G	SAAP						Non-GAA	ıΡ	
(in millions, except percentages and per share data)	Q2 2017		Q2	2 2016	% Chan	ge		Q2 2017		Q2 2016		% Change
Revenue	\$ 263.9		\$	246.1		7 9	%	\$ 264.3	ç	246.1		7 %
Net income	\$ 69.7		\$	69.6		0 9	%	\$ 86.4	ç	83.2		4 %
Earnings per share	\$ 0.80		\$	0.78		3 9	%	\$ 0.99	ç	0.93		6 %
Operating profit margin	37.3	%		38.3 %				48.3	%	46.9	%	
Operating cash flow	\$ 112.2		\$	71.6	5	57 9	%					

	GAAP					Non-GAAP					
(in millions, except percentages and per share data)	,	YTD 2017		YTD 2016	% Change		,	YTD 2017		YTD 2016	% Change
Revenue	\$	517.3	ç	472.0	10 9	%	\$	517.9		\$ 472.1	10 %
Net income	\$	133.0	Ş	126.1	6 9	%	\$	163.9		\$ 152.6	7 %
Earnings per share	\$	1.53	\$	5 1.41	9 9	%	\$	1.88		\$ 1.70	11 %
Operating profit margin		35.5 %	ó	38.0 %				47.3	%	46.7 %	
Operating cash flow	\$	238.1	ç	182.4	31 9	%					



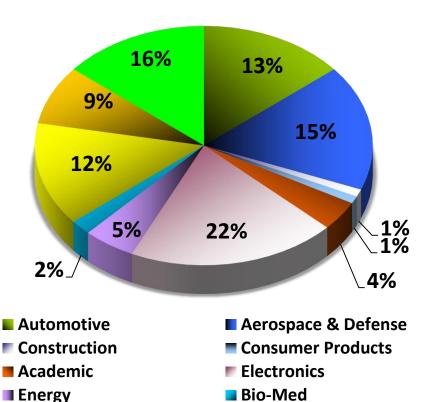
Diversified Revenue Model – Trailing 12 Months Thru June 30, 2017







Sales by Industry**



* Non-GAAP

(Unaudited)**

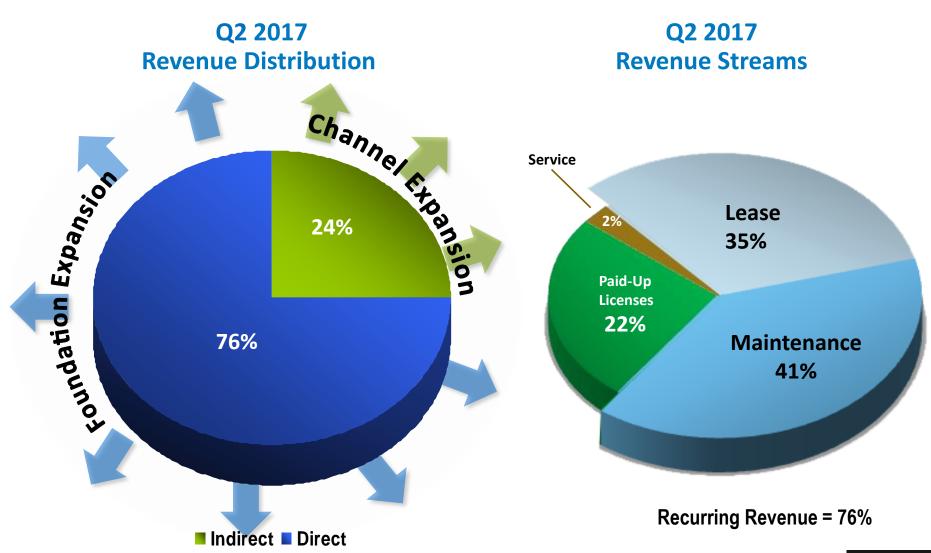
Industrial Equipment

Semiconductors



Materials & Chemical

Revenue distribution





23

Building deferred revenue & backlog



Consistently strong cash flows from operations



*Includes an income tax refund of approximately \$27 million in the first quarter of 2014 that did not recur in 2015



2017 capital allocation

- Investment in Organic Growth of the Business
- M&A to Enhance Growth
 - Size Not Determining Factor –Proven Technology is Key
 - Experienced Talent
 - Synergy With Customer Base and Global Channel
 - Financially Accretive Within a Reasonable Timeframe

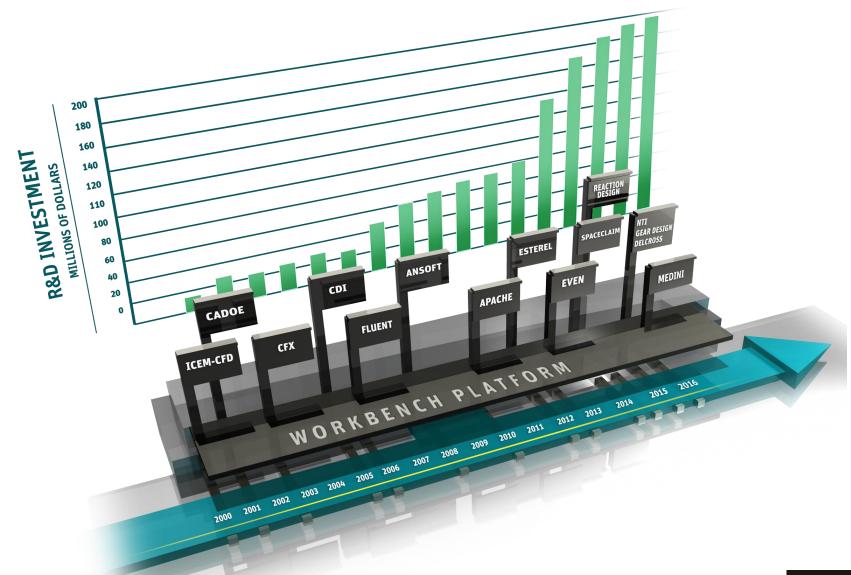
Stock Repurchase

- Commitment to Return Excess Cash to Stockholders
- Reduce Total Share Count Over Time

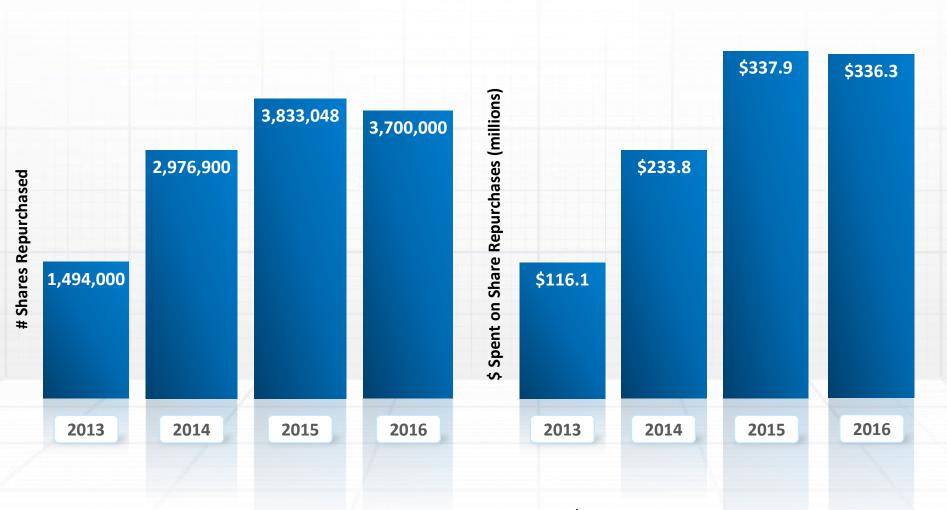




Our ongoing financial commitment to deliver value



Share repurchases over time



1 million shares repurchased in Q2 2017 at average cost of \$122.94 per share. 2 million shares repurchased in 1H 2017 at average cost of \$111.65 per share.



History of performance

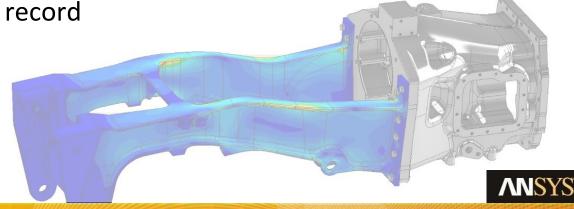
Track record of strong and consistent execution

- Released ANSYS®18.0 in January 2017, ANSYS®17.2 in August 2016; ANSYS® AIM 17.2 in September 2016; ANSYS®17.1 in May 2016; ANSYS®17.0 in January 2016; delivering major enhancements across the Company's entire product portfolio
- Grown the customer base to approximately 45,000 logoed companies
- Increased revenue 13 fold in the past 15 years
- Driving to improved top line growth in constant currency
- Industry leading margins



ANSYS: Well positioned for continued value creation

- Unique customer value proposition
- The market leader focused on engineering simulation
- Investing in future growth: people, sales & marketing initiatives, technology and infrastructure
- Large and growing market opportunity
- Capitalizing on key global trends in engineering and compute environments (autonomy, electrification, etc.)
- Broad customer base of leaders in their field
- Diverse portfolio across industries and geographies
- Proven financial track record
- Solid balance sheet



A race with no finish line





Reconciliation Of Non-GAAP

ANSYS, INC. AND SUBSIDIARIES

Reconciliation of Non-GAAP Measures
For the three months ended June 30, 2017
(in millions, except per share data)
(unaudited)

	As Reported	Adjustments	Non-GAAP Results
tal revenue	\$263.9	\$ 0.4 ⁽¹⁾	\$264.3
perating income	\$98.4	\$29.2 ⁽²⁾	\$127.6
perating profit margin	37.3%		48.3%
et income	\$69.7	\$16.7 ⁽³⁾	\$86.4
PS – diluted	\$0.80		\$0.99
eighted avg. shares-diluted	86.9		86.9
perating profit margin et income PS – diluted	37.3% \$69.7 \$0.80	·	48.3% \$86.4 \$0.99

- (1) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with the accounting for deferred revenue in business combinations.
- (2) Amount represents \$14.1 million of stock-based compensation expense and \$12.1 million of amortization expense associated with intangible assets acquired in business combinations, \$2.0 million of restructuring charges, \$0.5 million of transaction expenses related to business combinations and \$0.4 million adjustment to revenue as reflected in (1) above.
- (3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$12.5 million.

Reconciliation Of Non-GAAP

ANSYS, INC. AND SUBSIDIARIES

Reconciliation of Non-GAAP Measures
For the six months ended June 30, 2017
(in millions, except per share data)
(unaudited)

	As Reported	Adjustments	Non-GAAP Results
Total revenue	\$517.3	\$0.6 ⁽¹⁾	\$517.9
Operating income	\$183.9	\$61.3 ⁽²⁾	\$245.2
Operating profit margin	35.5%		47.3%
Net income	\$133.1	\$30.8(3)	\$163.9
EPS – diluted	\$1.53		\$1.88
Weighted avg. shares-diluted	87.0		87.0

- (1) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with accounting for deferred revenue in business combinations.
- (2) Amount represents \$24.1 million of amortization expense associated with intangible assets acquired in business combinations, \$24.6 million charge for stock-based compensation, and \$0.6 million adjustment to revenue as reflected in (1) above and \$11.3 million of restructuring charges and \$0.7 million of transaction expenses related to business combinations.
- (3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$30.4 million.



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