



Investor Presentation

May 2018

Nasdaq Opportunity: Creating Sustainable Value

1 Building on a successful foundation

A diverse and resilient capital markets franchise with a marketplace core

2 Executing strategy to accelerate growth

Re-allocating capital and resources towards higher growth opportunities

3 Our growth platform

Market Technology and Information Services capitalize on secular dynamics to lead growth, leveraging strong marketplace core

4 Clear performance objectives and capital plan

Elevated organic growth, attractive returns on capital, double digit TSR

Agenda



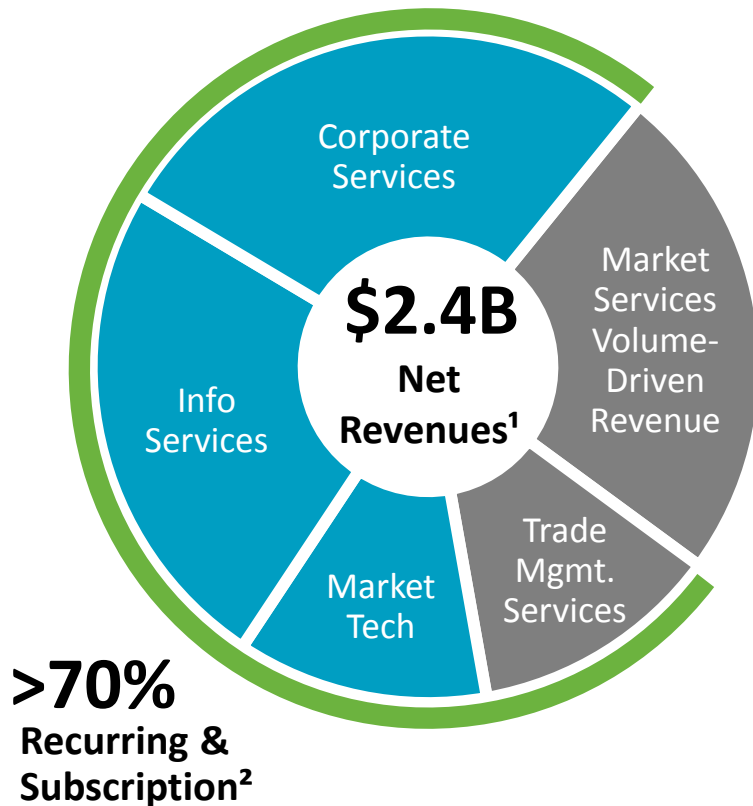
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Strong Financial And Competitive Position



Key Highlights / Characteristics

Operating margin ³ (2017)	47%
Top-tier positioning	>90% Revenues
Direct revenue exposure to market level beta ⁴	12%
Dividend payout / yield ⁵	42% / 2.1%

¹Represents revenues less transaction-based expenses.

²Represents revenues from our Corporate Services, Information Services and Market Technology segments plus our Trade Management Services business.

³Please see appendix for reconciliation of GAAP to non-GAAP measures.

⁴Includes revenues from Nordic equity trading, Nordic listings and index licensing and servicing in 2017.

⁵Dividend payout based on 1Q18 dividend of \$0.38 and three subsequent quarterly dividends of \$0.44 based on 3/28 dividend announcement. Dividend yield calculated as of May 24, 2018 and factors YTD average stock price of \$83.75.

Leveraging Four Strong Business Segments



Market Technology



Operate and power the world's leading marketplaces

Information Services



Trusted data, index and analytics

Corporate Services



A leading position in listings and C-Suite offerings

Market Services

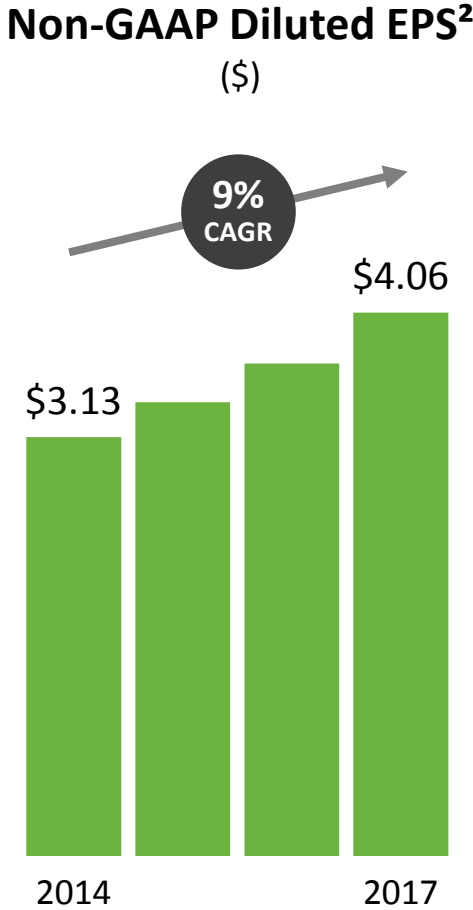
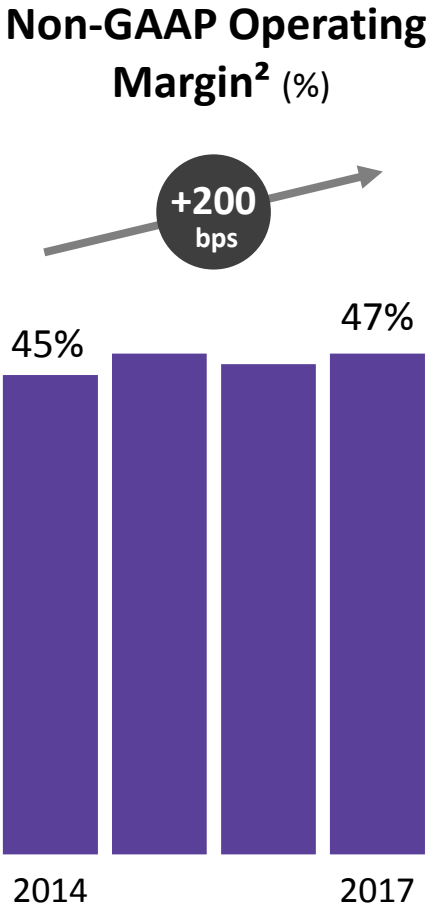
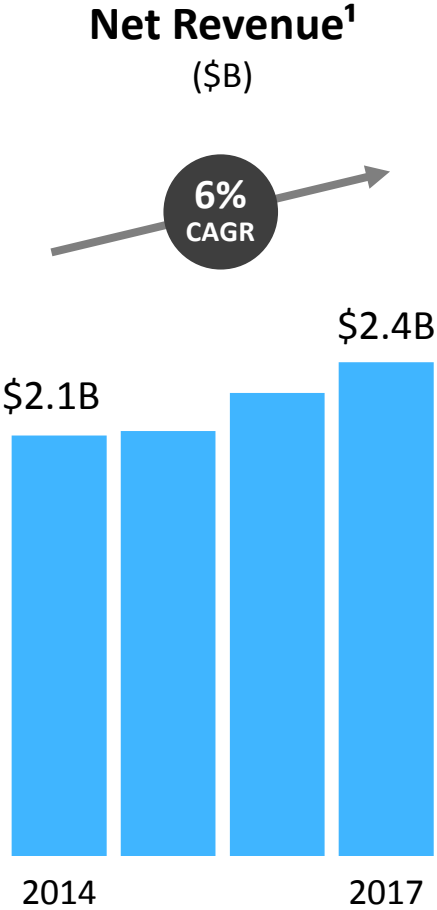


Diverse portfolio of North American and Nordic markets

Key Growth Segments

Foundational Segments

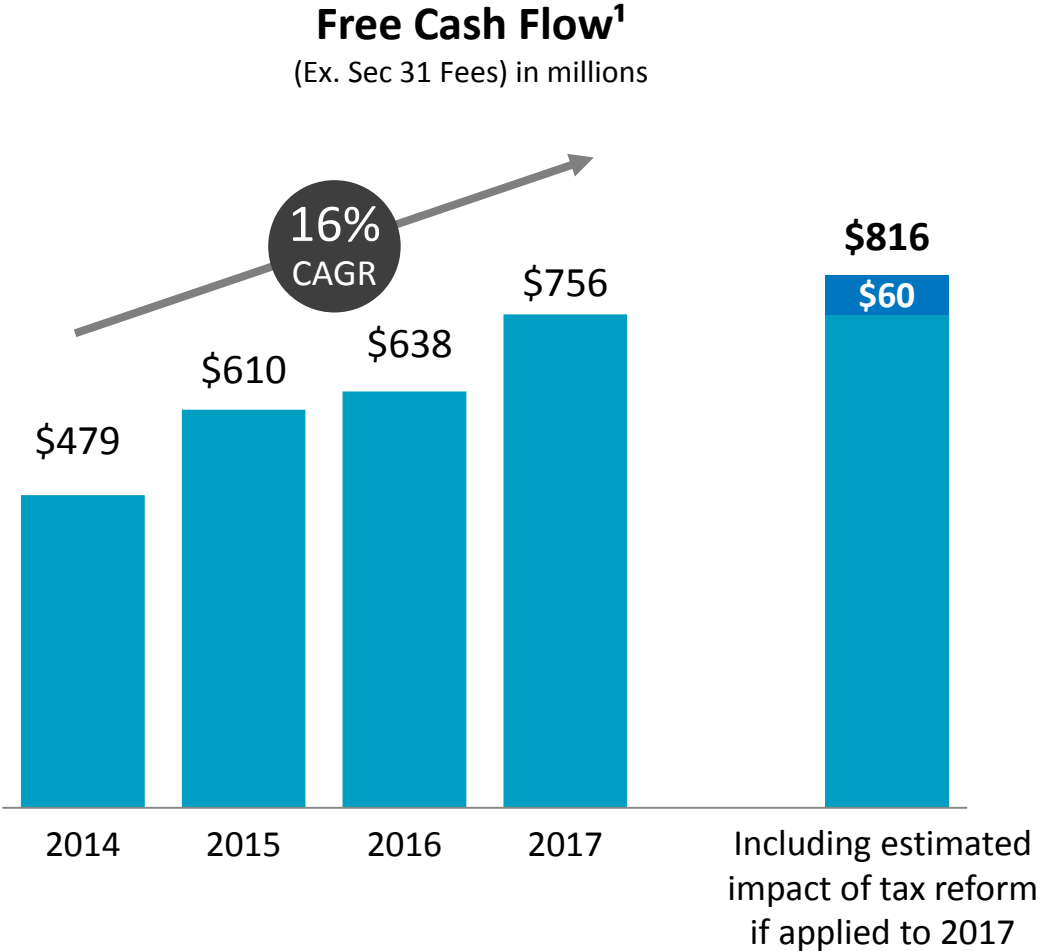
Building on a Record of Strong Financial Performance...



Note: Financial metrics are not restated for new revenue recognition standard.
¹Represents revenues less transaction-based expenses.
²Please refer to the appendix for a reconciliation of U.S. GAAP to non-GAAP measures.

High Quality, Growing Free Cash Flow Stream Represents Strong Relative Value

Free Cash Flow¹
(Ex. Sec 31 Fees) in millions



102% Conversion¹
FCF Ex. Sec 31 Fees
Vs. Non-GAAP Net Income
(2014-2017)

6.1% FCF Yield
vs.
5.3% S&P 500²

¹See page 3 for additional details on free cash flow excluding section 31 fees.
²Next 12 months free cash flow yield per FactSet as of May 25, 2018.

Agenda

1 Building on a
successful foundation



2 Executing strategy
to accelerate growth

3 Our growth
platform

4 Clear performance
objectives and
capital plan

Key Trends Shaping Our Industry

Create Opportunities and Challenges for Clients



¹Singularity University

²PWC, "Asset Management 2020: A Brave New World"

³CenterState, "Where Banks Are Spending Their Technology Dollars"

⁴eMarketer, June 2017

Strategic Reallocation of Resources – Execution Underway

Optimize Slower Growth Businesses

Select product lines or businesses

Initial Examples:

- ✓ Divested Public Relations Solutions & Digital Media Services businesses
- ✓ Committed to reviewing strategic alignment

Sustain our Foundation

Market Services Corporate Services

Initial Examples:

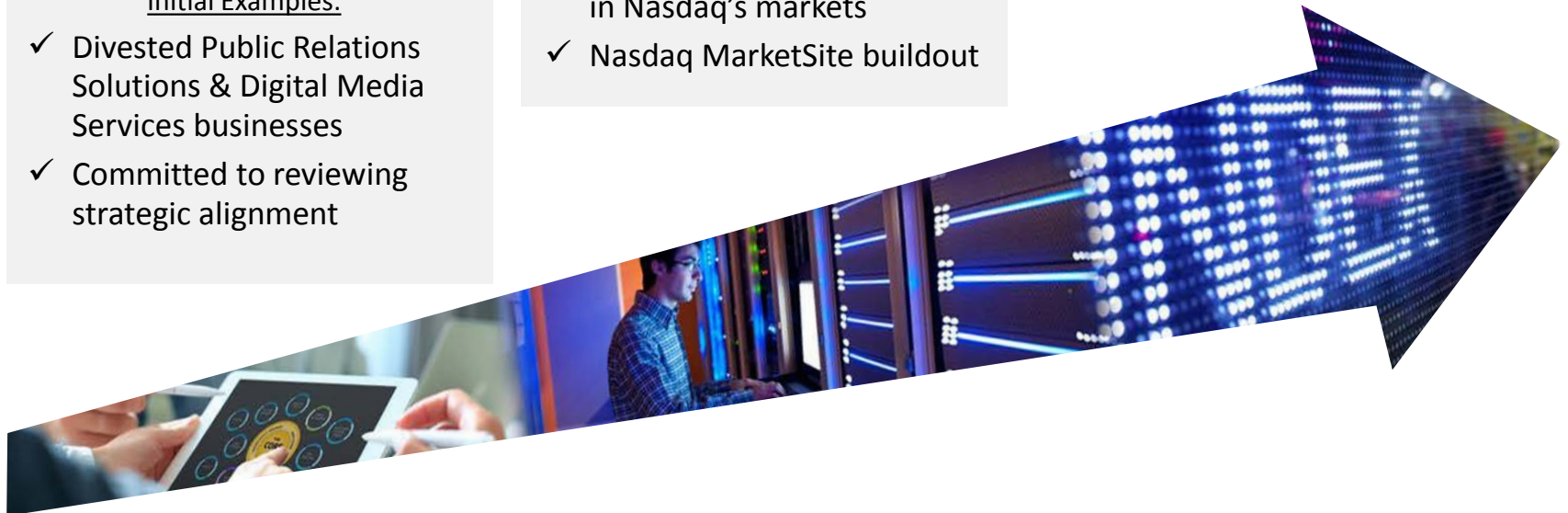
- ✓ Implementing Nasdaq Financial Framework (NFF) in Nasdaq's markets
- ✓ Nasdaq MarketSite buildout

Re-allocate Resources to Growth Opportunities

Market Technology Information Services

Initial Examples:

- ✓ Acquired eVestment
- ✓ Investing in Nasdaq Financial Framework and SMARTS Buy-Side



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Our Growth Platform



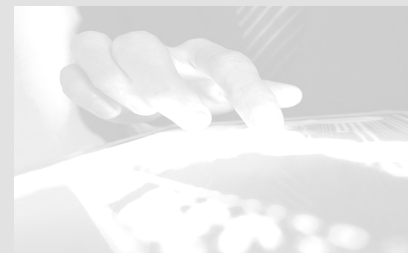
Market Technology



**Operate and power
the world's leading marketplaces**

- 2017 revenues: \$247M
- 3-Year revenue CAGR: 7%

Information Services



Trusted data, index and analytics

- 2017 revenues: \$588M
- % Nasdaq operating income: 37%
 - ETP AUM: \$173B

Key Growth Segments

An Industry Leading Market Technology Provider

Market Infrastructure Operators (MIO)



- Comprehensive marketplace solutions
- Serving exchanges, clearinghouses, CSDs and regulators

Buy-Side / Sell-Side



- A surveillance leader for sell-side, expanding into buy-side
- Outsourced execution platform solutions for banks/brokers

Non-Financial Markets (NFM)



- Delivering benefits of price discovery beyond financial markets
- Entry position serving use-cases in multiple industry verticals

Repositioning to Deliver a Best-in-Class Managed Solution Model

Key Strategies

Expand what we can provide to our MIO clients



Evolving SMARTs to serve buy-side/RegTech



Lead and enable "markets everywhere"

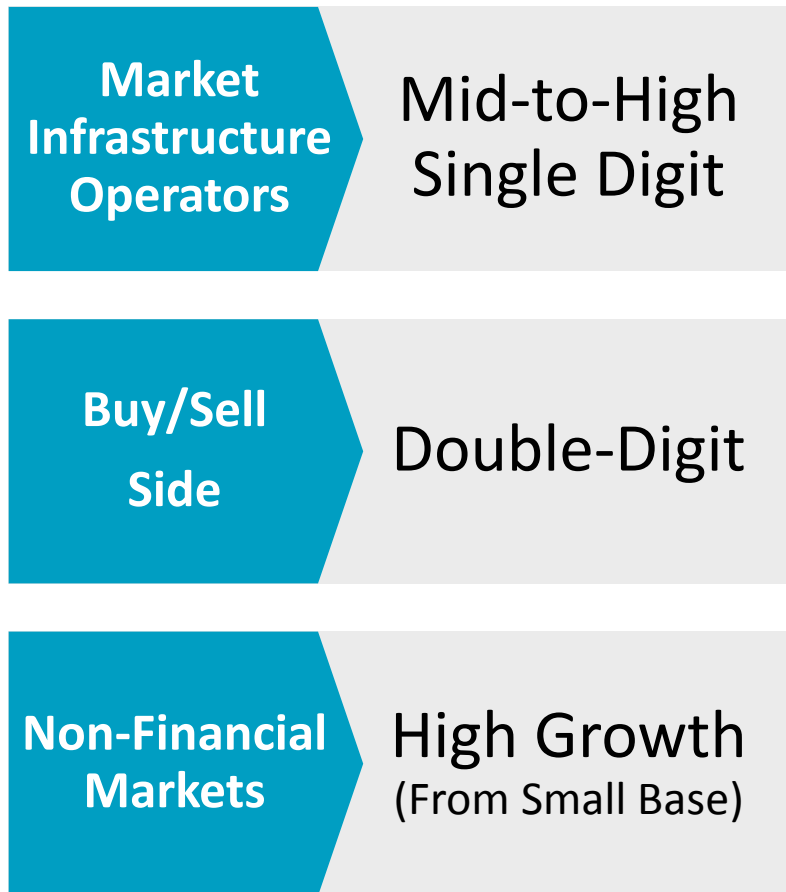


Enabler: Nasdaq Financial Framework
Transition to managed solution model

Goals

- Achieve significant share of +\$22B addressable market
- Extend leadership in mission critical FinTech solutions
- Enhance scalability and margin potential

Market Technology Organic Growth Outlook



Market Technology

Organic Revenue Growth
3-5 year Outlook¹
8-11%
CAGR



¹Assumes stable economic environment.

Our Growth Platform



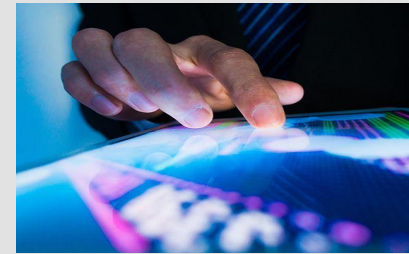
Market Technology



Operate and power the world's leading marketplaces

- 2017 revenues: \$247M
- 3-Year revenue CAGR: 7%

Information Services



Trusted data, index and analytics

- 2017 revenues: \$588M
- % of Nasdaq non-GAAP op. inc.: 37%
- AUM in Nasdaq-licensed ETPs: \$173B

Key Growth Segments

Key Attributes of Our Elite Information Business

Key Assets/Capabilities

Proof Points



Gold Source Data



Data created by our leading markets



eVestment & other investment data



Marquee Index Brands



Nasdaq, DWA, OMX & other families



>40% AUM in Smart Beta categories



Analytics Delivering Actionable Insights



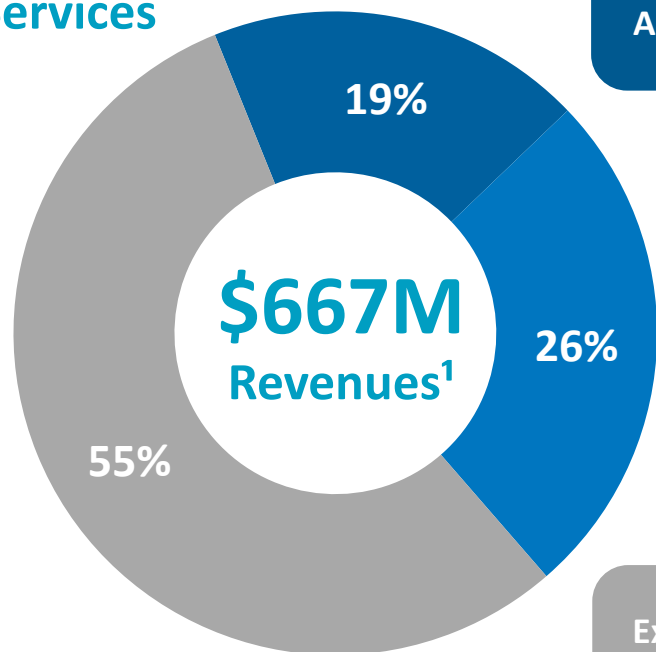
Investment allocation & dist. tools



Alternative investment data hub

Complementary Products With Distinct Growth Opportunities

2017 Information Services



Investment Data & Analytics

- Growth in institutional/alternative AUMs
- Secular demand drivers for advanced analytics
- International expansion

Index Licensing & Data

- Growing demand for passive investment vehicles
- Contribution of smart beta and multi-factor models >40% is approximately 2x industry avg.

Exchange Market Data

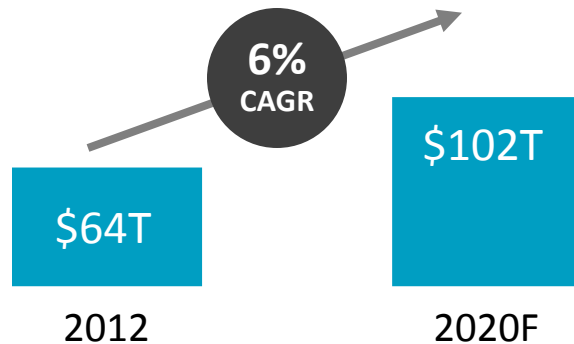
- New customers, in particular in Asia
- Targeted and earned fee adjustments

¹Information Services pro forma 2017 revenues: a) includes the full year impact of eVestment assuming it was acquired at the beginning of 2017; and b) excludes the \$11 million purchase price adjustment on deferred revenue associated with the closing of the eVestment acquisition.

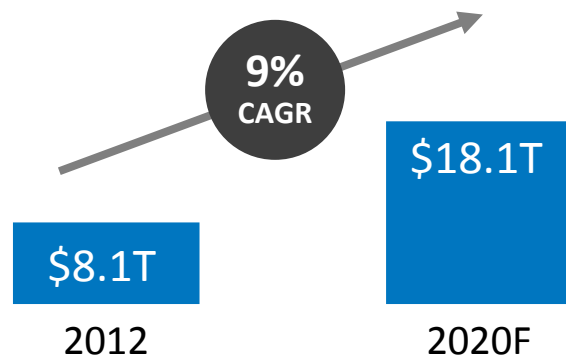
Investment Data and Analytics

Large, Growing Market

Global Asset Management AUM Growth¹



Alternative Investments AUM Growth²



With Critical Customer Challenges

Asset Managers:

- Shifting investor preferences requires strategic alignment
- Heightened competition for assets requires skilled marketing

Asset Owners:

- Thousands of alternatives
- Complexity of managing across more asset categories

¹PWC, "Asset Management 2020: A Brave New World".

²Strategy& and PWC, "Alternative Investments: It's Time to Pay Attention". Includes private equity, hedge funds, real estate, institutional loans

eVestment is The Industry Standard and Delivers Significant Client Value

Client Value Proposition

- Provides critical information to the asset management, consultant and asset owner ecosystem
- Maximize participation in allocation decisions
- Gain tactical insights on recent search results
- Gain strategic insights to manage enterprise

92%

of top 50
asset managers

76%

of top 50
consultants

70%

of top 20
pension funds

Franchise Advantages



Strong network effects

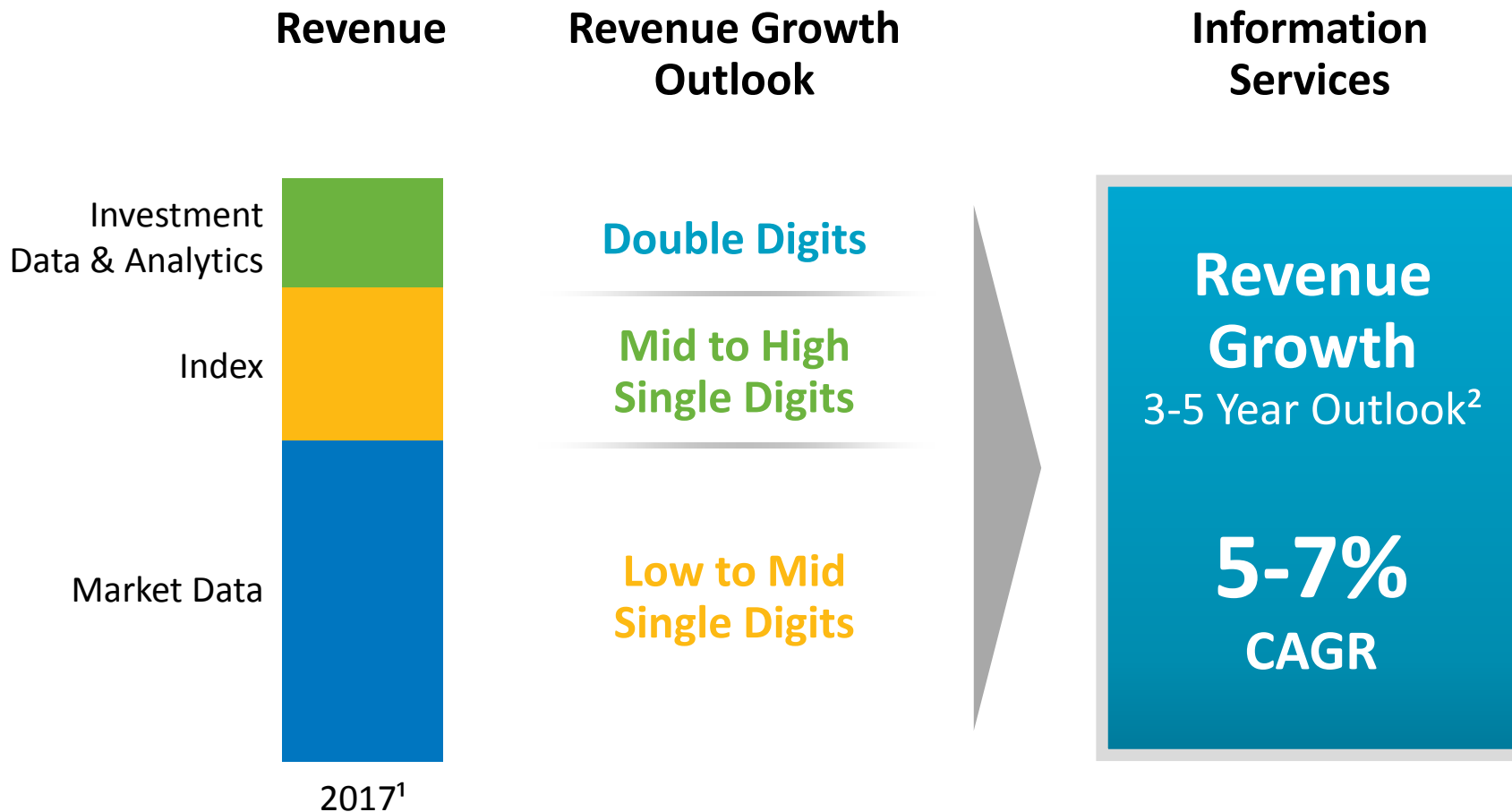


Leader in institutional
investment data



Scalable, SaaS oriented
business

Strong Organic Growth Outlook: Revenues



¹Information Services pro forma revenues are adjusted to account for the full year impact of eVestment.

²Assumes stable economic environment.

Our Marketplace Core



Corporate Services



Leading position in listings and C-Suite offerings

- 2017 Revenue¹: \$501M
- 2017 Operating margin: 32%

Market Services



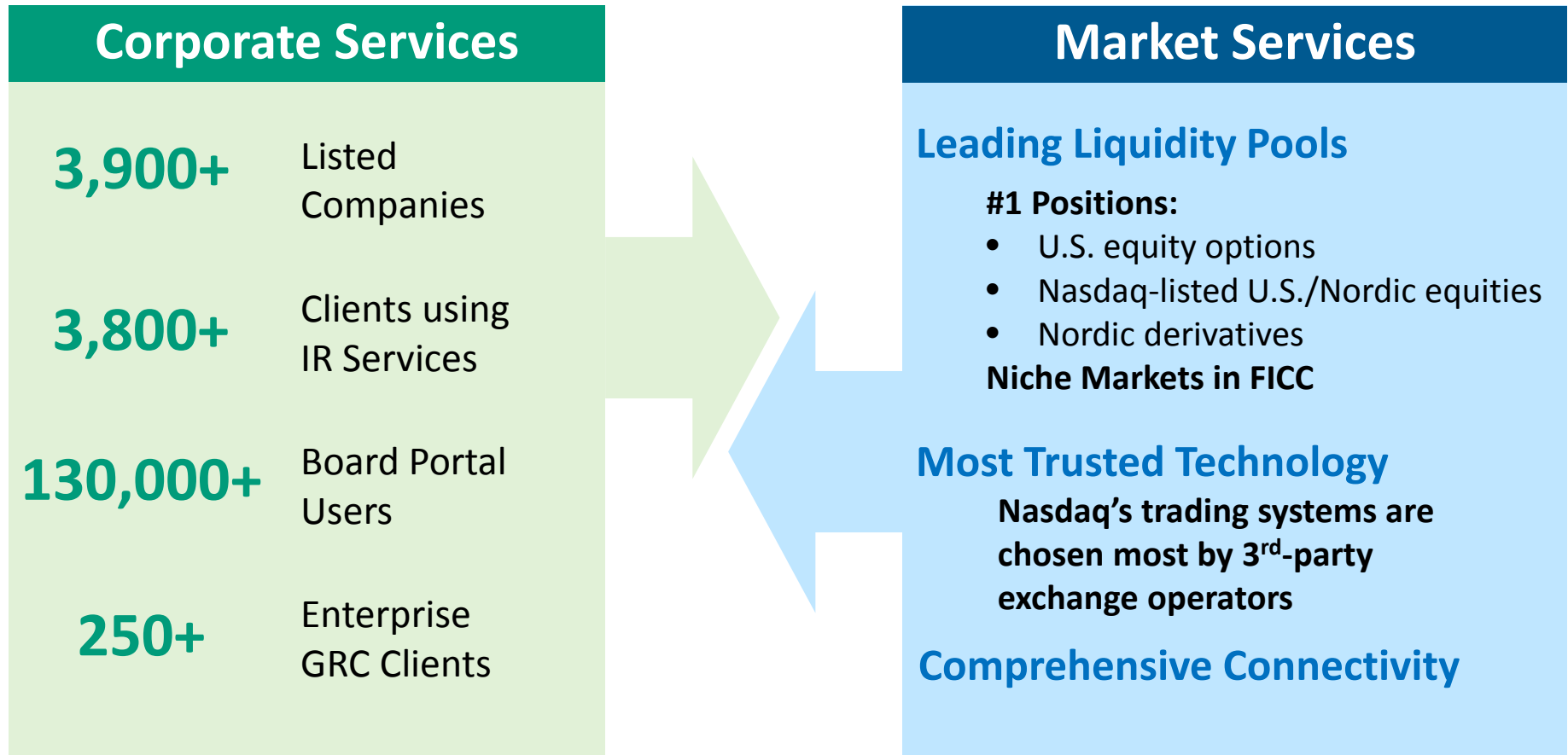
Diverse portfolio of North American and Nordic markets

- 2017 net revenues: \$881M
- 2017 operating margin: 55%

Foundational Segments

¹Corporate Services revenues are adjusted for the sale of the Public Relations Solutions and Digital Media Services businesses, the adoption of the new revenue recognition standard and the re-segmentation of BWISE from Market Technology.

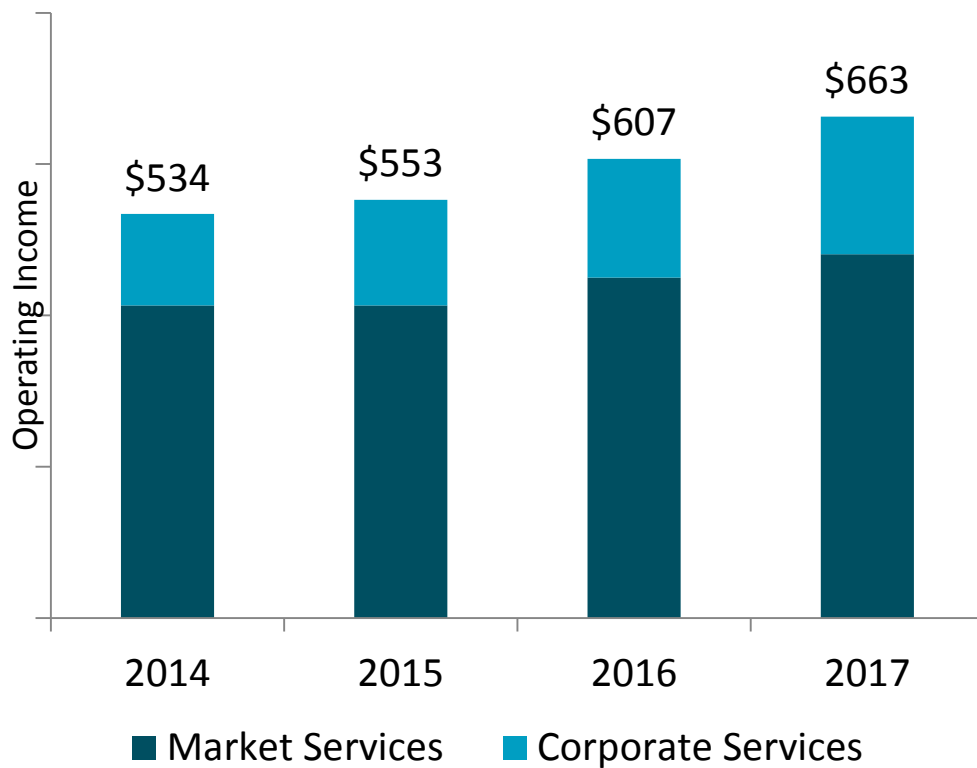
Marketplace Foundation For Other Nasdaq Businesses



Nasdaq's marketplace platform connects companies, investors, and capital market intermediaries to unlock opportunities

Delivering Significant, Resilient Cash Flows

Growing Income to Fund Investment & Shareholder Returns



Organic Growth Outlook Over Medium-Term

Corporate Services
3-5 Year Outlook¹
3-5%
CAGR

Market Services
3-5 Year Outlook
Variable
w/ Macro Conditions

¹Assumes stable economic environment.

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1 Building on a successful foundation

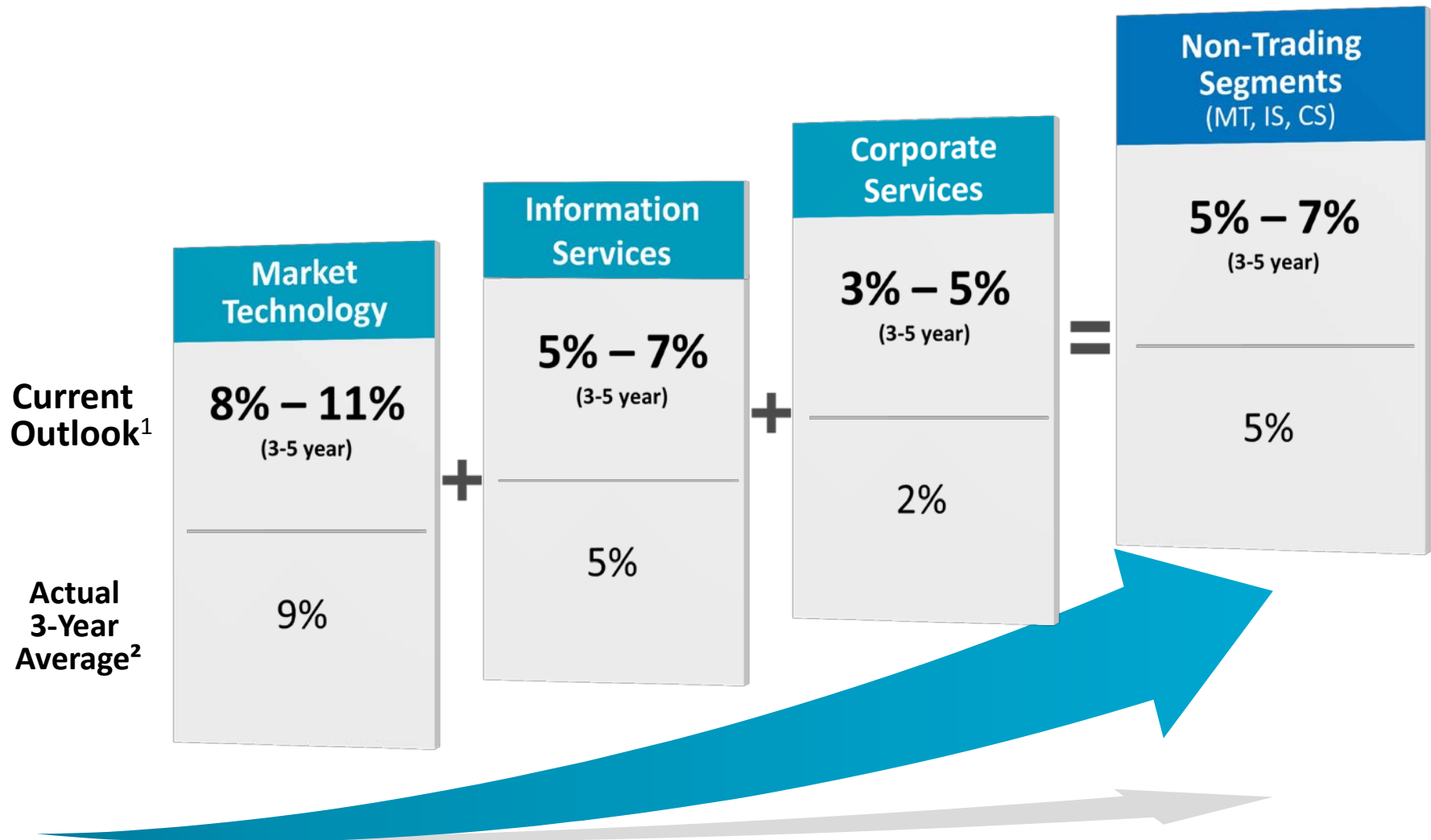
2 Executing strategy to accelerate growth

3 Our growth platform



4 Clear performance objectives and capital plan

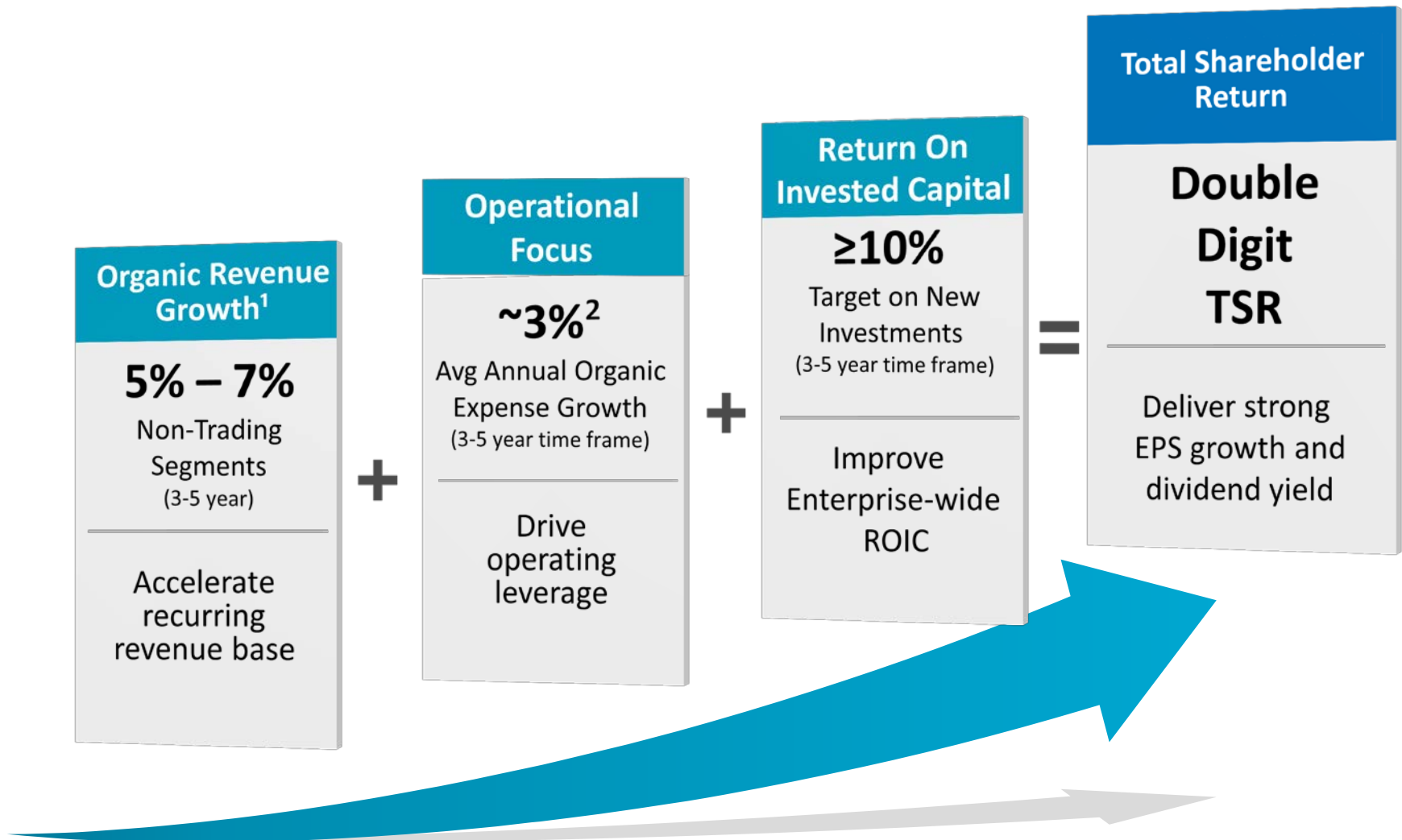
Raised Medium Term Revenue Growth Outlook



Market Services variable with market activity

¹Revenue growth outlook assumes a stable market backdrop.
²See reconciliation of GAAP to non-GAAP measures.

Clear Objectives to Measure Strategy's Success



¹Revenue growth outlook assumes a stable market backdrop.
²See reconciliation of GAAP to non-GAAP measures.

Clear And Transparent Capital Priorities

Maintain Investment
Grade Status

Invest in Profitable
Growth

Grow Dividend as
Earnings/FCF Grow

Share
Repurchases

Deleverage

Debt reduction +
EBITDA growth

+

**Attractive
ROIC**

significantly above
cost of capital

+

42% Payout
Ratio¹
2.1% Yield²

+

Buybacks

primarily to offset
dilution

mid-2x
(from >3x)
by mid-2019

≥ 10%
target on
investments

\$0.44
Quarterly
dividend

~\$300M
in additional buybacks
funded by divestiture

¹Dividend payout based on 1Q18 dividend of \$0.38 and three subsequent quarterly dividends of \$0.44 based on 3/28 dividend announcement, divided by 2017 adjusted non-GAAP EPS of \$4.02, which incorporates the new accounting standard ASU 2014-09 "Revenue from contracts with customers" using the full retrospective method.

²Dividend yield calculated as of May 24, 2018 using \$0.44 per share quarterly dividend and YTD average stock price of \$83.75.

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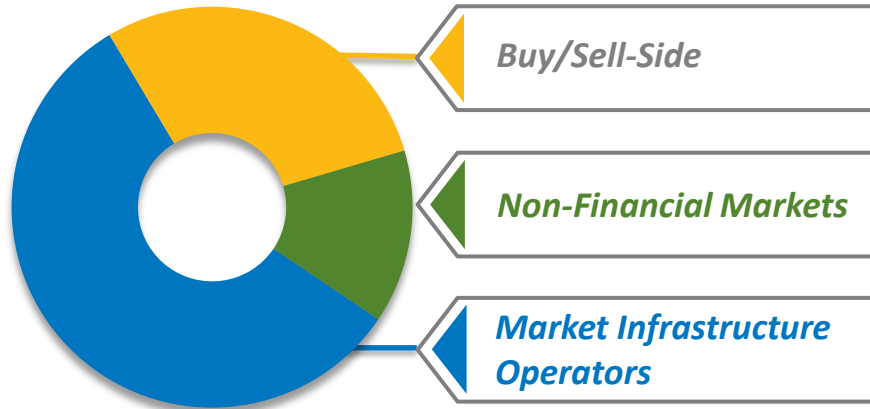
Elevated organic growth, attractive returns on capital, double digit TSR

Appendix

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MARKET TECHNOLOGY METRICS

REVENUE MIX AND PRODUCT OFFERING BY CUSTOMER GROUP

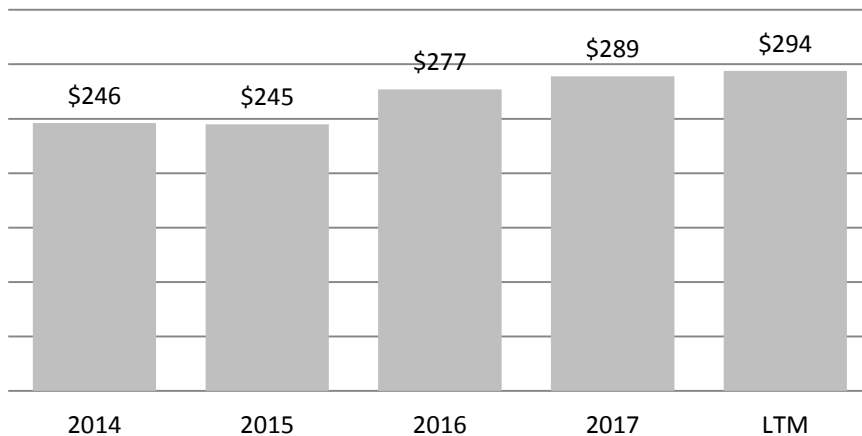


- A leader in trade surveillance with 130+ clients
- Recent expansion into hosted execution services
- Entering buy-side surveillance/compliance

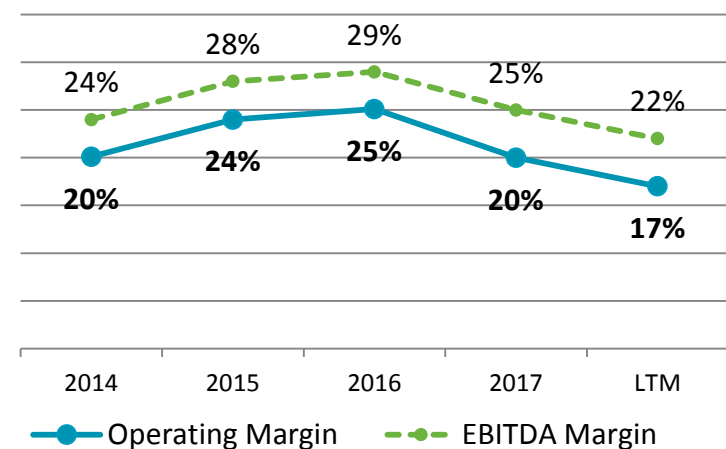
- Opportunities in non-financial players with market technology needs

- 80+ clients using trading technology and surveillance
- 20+ clients using clearinghouses & central security depositories

REVENUES (\$M)



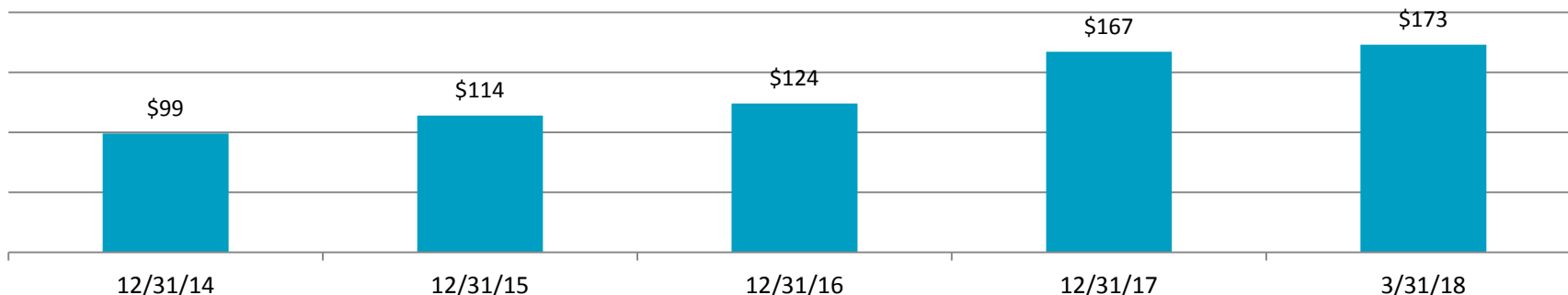
MARGIN (%)



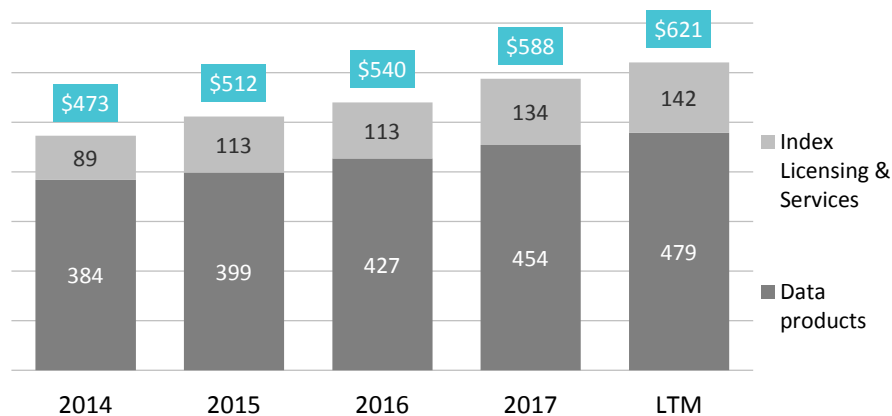
INFORMATION SERVICES METRICS

Market Data & Index Licensing & Services

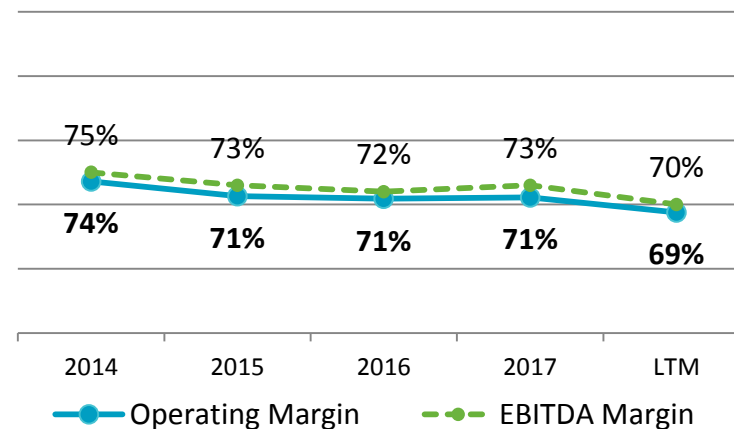
NASDAQ INDEX LICENSED ETP AUM (\$B)



REVENUES (\$M)



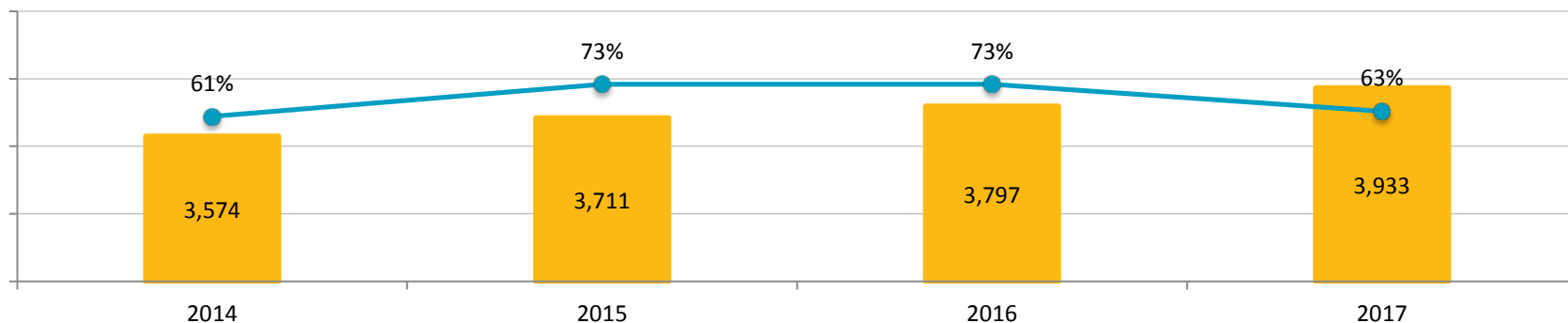
MARGIN (%) ⁽²⁾



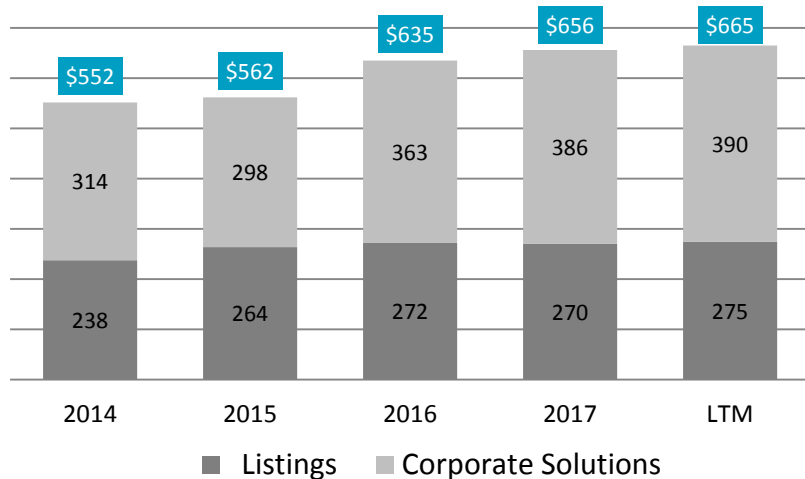
¹North America proprietary data include depth of book products, Nasdaq Basic, audit collections, eVestment, fixed income, Mutual Fund quotation data (MFQS), DWA, options and Nasdaq CXC (formerly Chi-X Canada). ²Information Services' margins reflect the allocation of certain costs that support the operation of various aspects of Nasdaq's business, including Market Services, to units other than Information Services.

CORPORATE SERVICES METRICS

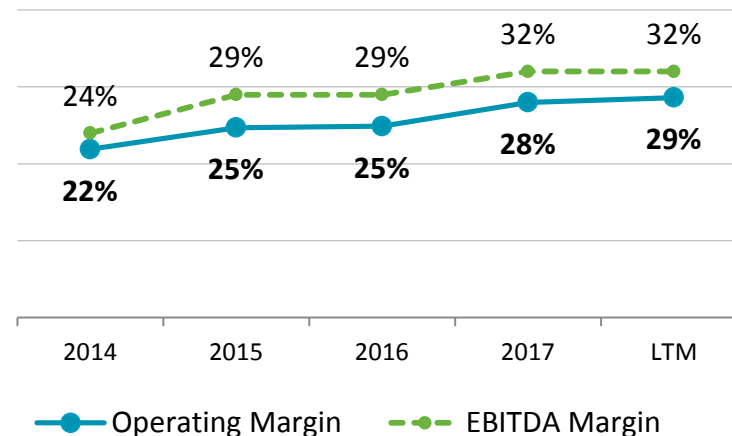
GLOBAL LISTINGS COUNT & U.S. IPO WIN RATE



REVENUES (\$M)



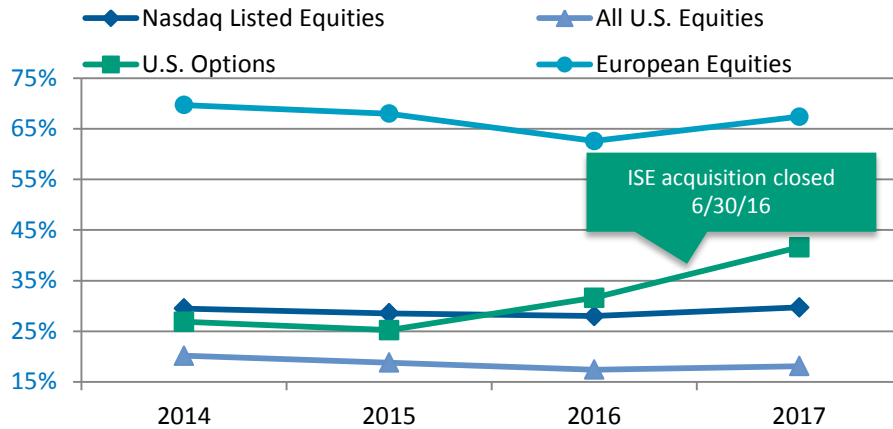
MARGIN (%)



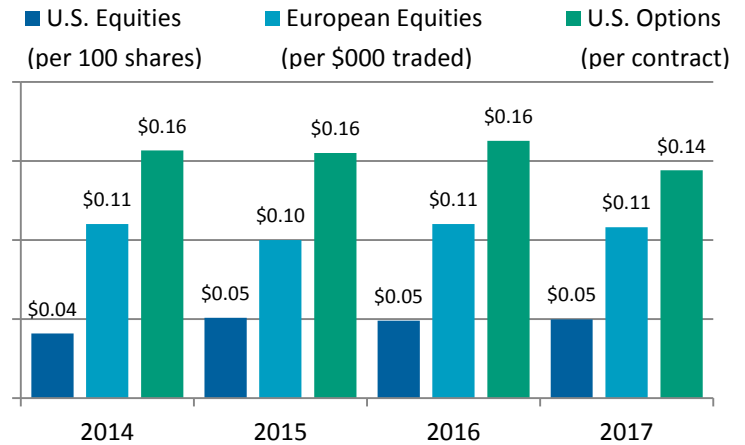
MARKET SERVICES METRICS

Derivative, Equity, Fixed Income Trading & Trade Management Services

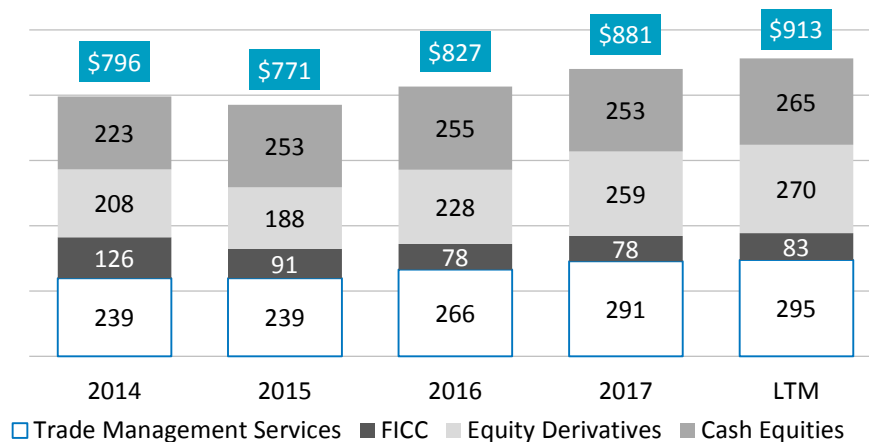
U.S. EQUITY AND U.S. EQUITY OPTION MARKET SHARE



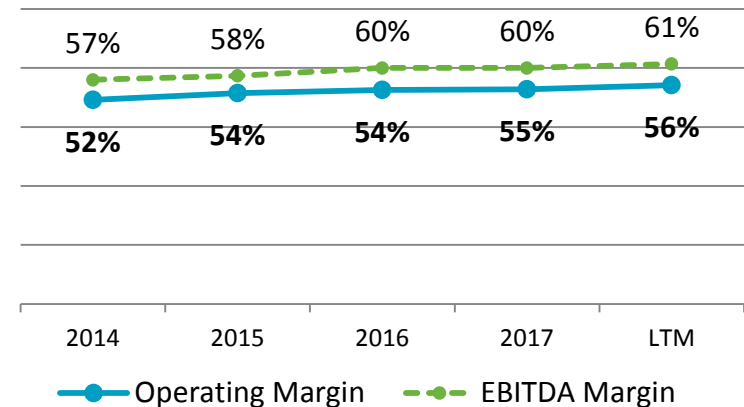
EQUITIES AND OPTION CAPTURE RATES



REVENUES (\$M)



MARGIN (%)



SUMMARY OF HISTORICAL FINANCIAL RESULTS

NON-GAAP RESULTS ⁽¹⁾ (US\$ Millions, except EPS)	2014	2015	2016	2017	LTM
Net Revenues	2,067	2,090	2,276	2,411	2,495
Operating Expenses	1,137	1,114	1,224	1,271	1,318
Operating Income	930	976	1,052	1,140	1,177
<i>Operating Margin</i> ⁽²⁾	45%	47%	46%	47%	47%
EBITDA	998	1,052	1,140	1,236	1,275
<i>EBITDA Margin</i> ⁽³⁾	48%	50%	50%	51%	92%
Net Income attributable to Nasdaq	542	581	619	681	728
DILUTED EPS	\$3.13	\$3.39	\$3.67	\$4.02	\$4.30

1. Please refer to pages 37-41 for a reconciliation of U.S. GAAP to non-GAAP measures.
2. Operating margin equals operating income divided by net revenues.
3. EBITDA margin equals EBITDA divided by net revenues.

HISTORICAL CASH FLOW/ USES OF CASH FLOW

Free Cash Flow Calculation (US\$ millions)	2014	2015	2016	2017	Q1 2018	2014 - Q1 2018
Cash flow from operations ⁽¹⁾	\$647	\$727	\$776	\$909	\$375	\$3,434
Capital expenditure	(140)	(133)	(134)	(144)	(16)	\$(567)
Free cash flow	507	594	642	765	359	\$2,867
Section 31 fees, net ⁽²⁾	(28)	16	(4)	(9)	23	\$(2)
Free cash flow ex. Section 31 fees	\$479	\$610	\$638	\$756	\$382	\$2,865
Uses of cash flow						
Share repurchases	\$178	\$377	\$100	\$203	\$99	\$957
Net repayment/(borrowing) of debt	235	(137)	(1,300)	(411)	133	\$(1,480)
Acquisitions	—	256	1,460	776	—	\$2,492
Dividends	98	149	200	243	63	\$753
Total uses of cash flow	\$511	\$645	\$460	\$811	\$295	\$2,722

1. Cash flow from operations has been restated for adoption of ASU 2016-15, ASU 2016-18, and ASU 2016-09.

2. Net of change in Section 31 fees receivables of \$14 million in 2014; (\$11 million) in 2015; \$1 million in 2016; (\$5 million) in 2017; \$23 million in 2018 YTD and \$38 million in 2014-2018 YTD.

EBITDA

Earnings Before Interest, Taxes, Depreciation and Amortization

<i>(US\$ millions)</i>	2014	2015	2016	2017	LTM
U.S. GAAP net income attributable to Nasdaq:	\$414	\$428	\$106	\$729	\$739
Income tax provision	181	203	27	143	156
Net income from unconsolidated investees	—	(17)	(2)	(15)	(13)
Other investment income	—	—	(3)	(2)	(1)
Net interest expense	111	107	130	136	136
Asset impairment charges	49	—	578	—	—
Net loss attributable to noncontrolling interests	(1)	(1)	—	—	—
U.S. GAAP operating income:	\$754	\$720	\$836	\$991	\$1,017
Non-GAAP Adjustments ⁽¹⁾	176	256	216	149	160
Non-GAAP operating income:	\$930	\$976	\$1,052	\$1,140	\$1,177
Depreciation and amortization of tangibles (Nasdaq)	68	76	88	96	98
EBITDA	\$998	\$1,052	\$1,140	\$1,236	\$1,275

(1) Please see slide 40 for reconciliation of U.S. GAAP operating income to non-GAAP operating income.

SEGMENT EBITDA

Earnings Before Interest, Taxes, Depreciation and Amortization

<i>(US\$ millions)</i>	2014	2015	2016	2017	LTM
Market Services net revenue	\$796	\$771	\$827	\$881	\$913
Market Services operating income	\$413	\$413	\$450	\$481	\$508
Depreciation	39	36	43	46	46
Market Services EBITDA	\$452	\$449	\$493	\$527	\$554
Market Services EBITDA margin	57%	58%	60%	60%	61%
Corporate Services revenue	\$552	\$562	\$632	\$653	\$664
Corporate Services operating income	\$121	\$140	\$157	\$182	\$190
Depreciation	12	22	26	26	25
Corporate Services EBITDA	\$133	\$162	\$183	\$208	\$215
Corporate Services EBITDA margin	24%	29%	29%	32%	32%
Information Services revenue	\$473	\$512	\$540	\$588	\$624
Information Services operating income	\$348	\$365	\$383	\$418	\$429
Depreciation	5	8	8	9	10
Information Services EBITDA	\$353	\$373	\$391	\$427	\$439
Information Services EBITDA margin	75%	73%	72%	73%	70%
Market Technology revenue	\$246	\$245	\$277	\$289	\$294
Market Technology operating income	\$49	\$58	\$68	\$59	\$50
Depreciation	11	10	12	14	16
Market Technology EBITDA	\$60	\$68	\$80	\$73	\$66
Market Technology EBITDA margin	24%	28%	29%	25%	22%

OPERATING EXPENSES

Reconciliation of U.S. GAAP to non-GAAP

(US\$ Millions)	2Q17	3Q17	4Q17	1Q18	2014	2015	2016	2017	LTM
U.S. GAAP operating expenses	\$354	\$341	\$390	\$393	\$1,313	\$1,370	\$1,440	\$1,420	\$1,478
Amortization of acquired intangible assets ⁽¹⁾	(22)	(22)	(25)	(28)	(69)	(62)	(82)	(92)	(97)
Merger and strategic initiatives ⁽²⁾	(11)	(3)	(24)	(10)	(81)	(10)	(76)	(44)	(48)
Restructuring charges ⁽³⁾	—	—	—	—	—	(172)	(41)	—	—
Executive compensation ⁽⁶⁾	—	—	—	—	—	—	(12)	—	—
Regulatory matters ⁽⁵⁾	—	(1)	—	—	—	—	(6)	(1)	(1)
Special legal expenses	—	—	—	—	(2)	—	—	—	—
Reversal of value added tax refund ⁽⁸⁾	—	—	—	—	—	(12)	—	—	—
Extinguishment of debt ⁽¹¹⁾	(10)	—	—	—	(11)	—	—	(10)	(10)
Sublease reserve ⁽⁹⁾	—	—	(2)	(2)	(11)	—	1	(2)	(4)
Other ⁽¹⁰⁾	—	—	—	—	(2)	—	—	—	—
Total non-GAAP adjustments	\$(43)	\$(26)	\$(51)	\$(40)	\$(176)	\$(256)	\$(216)	\$(149)	\$(160)
NON-GAAP operating expenses	\$311	\$315	\$339	\$353	\$1,137	\$1,114	\$1,224	\$1,271	\$1,318

Please see pages 43-44 for above footnotes.

OPERATING INCOME

Reconciliation of U.S. GAAP to non-GAAP

(US\$ Millions)	2014	2015	2016	2017	LTM
U.S. GAAP operating income	\$754	\$720	\$836	\$991	\$1,017
Amortization of acquired intangible assets ⁽¹⁾	69	62	82	92	97
Merger and strategic initiatives ⁽²⁾	81	10	76	44	48
Restructuring charges ⁽³⁾	—	172	41	—	—
Executive compensation ⁽⁶⁾	—	—	12	—	—
Regulatory matters ⁽⁵⁾	—	—	6	1	1
Special legal expenses	2	—	—	—	—
Reversal of value added tax refund ⁽⁸⁾	—	12	—	—	—
Extinguishment of debt ⁽¹¹⁾	11	—	—	10	10
Sublease reserve ⁽⁹⁾	11	—	(1)	2	4
Other ⁽¹⁰⁾	2	—	—	—	—
Total Non-GAAP adjustments	176	256	216	149	160
NON-GAAP operating income	\$930	\$976	\$1,052	\$1,140	\$1,177

Please see pages 43-44 for above footnotes.

NET INCOME AND DILUTED EPS

Reconciliation Of U.S. GAAP To Non-GAAP - Quarterly

<i>(US\$ millions, except EPS)</i>	2Q17	3Q17	4Q17	1Q18	2014	2015	2016	2017	LTM
U.S. GAAP NET INCOME ATTRIBUTABLE TO NASDAQ	\$146	\$170	\$246	\$177	\$414	\$428	\$106	\$729	\$739
Amortization expense of acquired intangible assets ⁽¹⁾	22	22	25	28	69	62	82	92	97
Merger and strategic initiatives ⁽²⁾	11	3	24	10	81	10	76	44	48
Restructuring charges ⁽³⁾	—	—	—	—	—	172	41	—	—
Asset impairment charges ⁽⁴⁾	—	—	—	—	49	—	578	—	—
Regulatory matters ⁽⁵⁾	—	1	—	—	—	—	6	1	1
Executive compensation ⁽⁶⁾	—	—	—	—	—	—	12	—	—
Income from OCC equity investment ⁽⁷⁾	—	—	—	—	—	(13)	—	—	—
Reversal of value added tax refund ⁽⁸⁾	—	—	—	—	—	12	—	—	—
Sublease loss reserve ⁽⁹⁾	—	—	2	2	11	—	(1)	2	4
Special legal expense	—	—	—	—	2	—	—	—	—
Other ⁽¹⁰⁾	2	—	—	—	2	—	6	2	2
Extinguishment of debt ⁽¹¹⁾	10	—	—	—	11	—	—	10	10
TOTAL NON-GAAP ADJUSTMENTS	\$45	\$26	\$51	\$40	\$225	\$243	\$800	\$151	\$162
Adjustment to the income tax provision to reflect non-GAAP adjustments ⁽¹²⁾	(21)	(24)	(120)	(8)	(97)	(90)	(287)	(199)	(173)
Total Non-GAAP Adjustments, net of tax	24	2	(69)	32	128	153	513	(48)	(11)
NON-GAAP NET INCOME ATTRIBUTABLE TO NASDAQ	\$170	\$172	\$177	\$209	\$542	\$581	\$619	\$681	\$728
U.S. GAAP diluted earnings per share	\$0.87	\$1.00	\$1.45	\$1.05	\$2.39	\$2.50	\$0.63	\$4.30	\$4.37
Total adjustments from non-GAAP net income, above	\$0.14	\$0.01	\$(0.41)	\$0.19	\$0.74	\$0.89	\$3.04	\$(0.28)	\$(0.07)
NON-GAAP DILUTED EARNINGS PER SHARE	\$1.01	\$1.01	\$1.04	\$1.24	\$3.13	\$3.39	\$3.67	\$4.02	\$4.30

Please see pages 43-44 for above footnotes.

ORGANIC REVENUE GROWTH

<u>Non-Trading Segments</u>			Total Variance		Organic Impact		Other Impact ⁽¹⁾	
<i>All figures in US\$ Millions</i>	Current Period	Prior-year Period	\$M	%	\$M	%	\$M	%
LTM	1,582	1,475	107	7%	74	5%	33	2%
2017	1,530	1,449	81	6%	59	4%	22	2%
2016	1,449	1,319	130	10%	53	4%	77	6%
2015	1,319	1,271	48	4%	70	6%	(22)	(2)%
2014	1,271	1,139	132	12%	46	4%	86	8%
<u>Market Services Segment</u>			Total Variance		Organic Impact		Other Impact ⁽¹⁾	
<i>All figures in US\$ Millions</i>	Current Period	Prior-year Period	\$M	%	\$M	%	\$M	%
LTM	913	845	68	8%	28	3%	40	5%
2017	881	827	54	7%	(7)	(1)%	61	7%
2016	827	771	56	7%	(13)	(2)%	69	9%
2015	771	796	(25)	(3)%	23	3%	(48)	(6)%
2014	796	756	40	5%	21	2%	19	3%
<u>Total Company</u>			Total Variance		Organic Impact		Other Impact ⁽¹⁾	
<i>All figures in US\$ Millions</i>	Current Period	Prior-year Period	\$M	%	\$M	%	\$M	%
LTM	2,495	2,320	175	8%	102	4%	73	3%
2017	2,411	2,276	135	6%	52	2%	83	4%
2016	2,276	2,090	186	9%	40	2%	146	7%
2015	2,090	2,067	23	1%	93	4%	(70)	(3)%
2014	2,067	1,895	172	9%	67	4%	105	6%

1. Other impact includes acquisitions and changes in FX rates.

NON-GAAP ADJUSTMENTS FOOTNOTES

(1) Refer to the non-GAAP disclaimer information section for further discussion of why we consider amortization expense of acquired intangible assets and other items to be non-GAAP adjustments.

(2) For the three months and year ended December 31, 2017 and for the three months ended September 30, 2017, merger and strategic initiatives expense is primarily related to our acquisitions of eVestment, Inc. and International Securities Exchange, or ISE, as well as costs associated with the potential strategic alternatives for our Public Relations and Digital Media businesses within our Corporate Solutions business. For the three months ended June 30, 2017 merger and strategic initiatives expense primarily related to our acquisition of ISE. For the three months ended March 31, 2017 and December 31, 2016, merger and strategic initiatives expense primarily related to our acquisitions of International Securities Exchange, or ISE, and Boardvantage, Inc and other strategic initiatives. For the year ended December 31, 2013, merger and strategic initiatives expense reflected \$45 million of costs primarily associated with our acquisitions of eSpeed and the TR Corporate businesses, partially offset by a credit of \$23 million associated with a receivable under a tax sharing agreement with an unrelated party. For the year ended December 31, 2014, merger and strategic initiatives expense primarily related to our acquisitions of the TR Corporate businesses in May 2013 and eSpeed in June 2013 and a charge of \$23 million related to the reversal of a receivable under a tax sharing agreement with an unrelated party. For the year ended December 31, 2015, merger and strategic initiatives expense primarily related to certain strategic initiatives and our acquisition of Dorsey, Wright & Associates, LLC. For the year ended December 31, 2016, merger and strategic initiatives expense primarily related to our acquisition of ISE.

(3) For the year ended December 31, 2016, restructuring charges primarily related to severance costs, asset impairment charges, facility-related costs associated with the consolidation of leased facilities and other charges, and for the year ended December 31, 2015, restructuring charges primarily related to the rebranding of our trade name, severance cost, facility-related costs associated with the consolidation of leased facilities and other charges. For the year ended December 31, 2013, as part of our 2012 restructuring plan, we recognized restructuring charges totaling \$9 million, primarily related to severance costs. Refer to the non-GAAP information section for further discussion of why we consider restructuring charges to be a non-GAAP adjustment.

(4) For the three months and year ended December 31, 2016, we recorded a pre-tax, non-cash asset impairment charge of \$578 million related to our eSpeed trade name. The impairment was the result of a decline in operating performance and the rebranding of the eSpeed trade name due to a strategic change in the direction of our overall Fixed Income business. For the year ended December 31, 2014, we recorded pre-tax, non-cash asset impairment charges of \$49 million related to certain acquired intangible assets associated with customer relationships and certain technology assets. For the year ended December 31, 2013, pre-tax, non-cash asset impairment charges of \$14 million related to certain acquired intangible assets associated with customer relationships and a certain trade name. Refer to the non-GAAP information section for further discussion of why we consider asset impairment changes to be a non-GAAP adjustment.

(5) During 2016, the Swedish Financial Supervisory Authority, or SFSA, completed their investigations of cybersecurity processes at our Nordic exchanges and clearinghouse. In December 2016, we were issued a \$6 million fine by the SFSA as a result of findings in connection with its investigation. The SFSA's conclusions related to governance issues rather than systems and platform security. We have appealed the SFSA's decision, including the amount of the fine. The court has not yet reached a decision regarding our appeal. This charge is included in regulatory expense in the Condensed Consolidated Statements of Income (Loss) for the three months and year ended December 31, 2016.

(6) For the year ended December 31, 2016, we recorded \$12 million in accelerated expense due to the retirement of the company's former CEO for equity awards previously granted.

(7) We record our investment in The Options Clearing Corporation, or OCC, as an equity method investment. Under the equity method of accounting, we recognize our share of earnings or losses of an equity method investee based on our ownership percentage. As a result of a new capital plan implemented by OCC, we were not able to determine what our share of OCC's income was for the year ended December 31, 2014 until the first quarter of 2015, when OCC financial statements were made available to us. Therefore, we recorded other income of \$13 million in the first quarter of 2015 relating to our share of OCC's income for the year ended December 31, 2014.

(8) We previously recorded receivables for expected value added tax, or VAT, refunds based on an approach that had been accepted by the tax authorities in prior years. The tax authorities have since challenged our approach, and the revised position of the tax authorities was upheld in court during the first quarter of 2015. As a result, in the first quarter of 2015, we recorded a charge of \$12 million for previously recorded receivables based on the court decision.

(9) For the three months ended December 31, 2016, we established a sublease loss reserve on space we currently occupy due to excess capacity. The credit of \$1 million for the year ended December 31, 2016, pertains to the release of a previously recorded sublease loss reserve due to the early exit of a facility partially offset by a sublease loss reserve charge recorded on space we currently occupy due to excess capacity. For the year ended December 31, 2014, we recorded a sublease loss reserve of \$11 million on space we occupied due to excess capacity.

NON-GAAP ADJUSTMENTS FOOTNOTES

(10) For the three months ended June 30, 2017 and for the year ended December 31, 2017, other charge relates to wind down costs associated with an equity method investment that was previously written off, which is included in net income (loss) from unconsolidated investees in the Condensed Consolidated Statements of Income (Loss). For the three months and year ended December 31, 2016, other charges primarily include the impact of the write-off of an equity method investment, partially offset by a gain resulting from the sale of a percentage of a separate equity method investment. We recorded the net loss in net income (loss) from unconsolidated investees in the Condensed Consolidated Statements of Income (Loss).

(11) For the three months ended June 30, 2017 and for the year ended December 31, 2017, in connection with the early extinguishment of our 5.25% senior unsecured notes and the \$300 million repayment on our \$400 million senior unsecured term loan facility due November 25, 2019, we recorded a charge of \$10 million primarily related to a premium paid for early redemption. For the year ended December 31, 2014, we recorded a loss on extinguishment of debt of \$11 million reflecting \$9 million related to notes due in 2015 and \$2 million related to refinancing costs.

(12) The non-GAAP adjustment to the income tax provision includes the tax impact of each non-GAAP adjustment. In addition, the non-GAAP adjustment to the income tax provision reflects the recognition of previously unrecognized tax benefits associated with positions taken in prior years of \$8 million for the three months ended September 30, 2017 and \$4 million for the three months ended June 30, 2017. For the three months and year ended December 31, 2017, we recorded a decrease to tax expense of \$6 million, which reflects the impact of amending our assertion regarding the indefinite reinvestment of earnings of certain subsidiaries outside the U.S. For the year ended December 31, 2016, we recorded a \$27 million tax expense due to an unfavorable tax ruling received during the second quarter of 2016, the impact of which related to prior periods. For the year ended December 31, 2014, the amount includes \$23 million associated with the recognition of a previously unrecognized tax benefit. This amount is offset by the reversal of the receivable described in note 3 above. For the year ended December 31, 2013, the amount includes \$23 million associated with a reserve for an unrecognized tax benefit. This amount is offset by the receivable described in note 3 above.

The Tax Cuts & Jobs Act was enacted on December 22, 2017. For the three months and year ended December 31, 2017, we recorded a decrease to tax expense of \$87 million, which reflects the estimated impact associated with the enactment of this act. The decrease in tax expense primarily relates to the remeasurement of our net U.S. deferred tax liability at the lower U.S. federal corporate income tax rate. The estimate may be refined in the future as new information becomes available. Excess tax benefits relates to employee share-based compensation resulting from the adoption of new accounting guidance which requires all income tax effects of share-based awards to be recognized as income tax expense or benefit in the income statement when the awards vest or are settled on a prospective basis, as opposed to stockholders' equity where it was previously recorded. For the three months ended December 31, 2017 we recorded a benefit of \$10 million and for the year ended December 31, 2017, we recorded a benefit of \$40 million associated with the new guidance. Refer to the non-GAAP disclaimer section for further discussion on why we consider excess tax benefits related to employee share-based compensation to be a non-GAAP adjustment.

DISCLAIMERS

Non-GAAP Information

In addition to disclosing results determined in accordance with U.S. GAAP, Nasdaq also discloses certain non-GAAP results of operations, including, but not limited to, net income attributable to Nasdaq, diluted earnings per share, operating income, and operating expenses, that include certain adjustments or exclude certain charges and gains that are described in the reconciliation table of U.S. GAAP to non-GAAP information provided at the end of this release. Management uses this non-GAAP information internally, along with U.S. GAAP information, in evaluating our performance and in making financial and operational decisions. We believe our presentation of these measures provides investors with greater transparency and supplemental data relating to our financial condition and results of operations. In addition, we believe the presentation of these measures is useful to investors for period-to-period comparisons of results as the items described below do not reflect ongoing operating performance.

These measures are not in accordance with, or an alternative to, U.S. GAAP, and may be different from non-GAAP measures used by other companies. Investors should not rely on any single financial measure when evaluating our business. We recommend investors review the U.S. GAAP financial measures included in this earnings release. When viewed in conjunction with our U.S. GAAP results and the accompanying reconciliations, we believe these non-GAAP measures provide greater transparency and a more complete understanding of factors affecting our business than U.S. GAAP measures alone.

We understand that analysts and investors regularly rely on non-GAAP financial measures, such as non-GAAP net income attributable to Nasdaq, non-GAAP diluted earnings per share, non-GAAP operating income and non-GAAP operating expenses to assess operating performance. We use these measures because they highlight trends more clearly in our business that may not otherwise be apparent when relying solely on U.S. GAAP financial measures, since these measures eliminate from our results specific financial items, such as those described below, that have less bearing on our ongoing operating performance.

Amortization expense of acquired intangible assets: We amortize intangible assets acquired in connection with various acquisitions. Intangible asset amortization expense can vary from period to period due to episodic acquisitions completed, rather than from our ongoing business operations. As such, if intangible asset amortization is included in performance measures, it is more difficult to assess the day-to-day operating performance of the businesses, the relative operating performance of the businesses between periods and the earnings power of Nasdaq. Management does not consider intangible asset amortization expense for the purpose of evaluating the performance of our business or its managers or when making decisions to allocate resources. Therefore, we believe performance measures excluding intangible asset amortization expense provide investors with a more useful representation of our businesses' ongoing activity in each period.

Merger and strategic initiatives expense: We have pursued various strategic initiatives and completed a number of acquisitions in recent years which have resulted in expenses which would not have otherwise been incurred. These expenses generally include integration costs, as well as legal, due diligence and other third party transaction costs. The frequency and the amount of such expenses vary significantly based on the size, timing and complexity of the transaction. Accordingly, we exclude these costs for purposes of calculating non-GAAP measures which provide a more meaningful analysis of Nasdaq's ongoing operating performance or comparisons in Nasdaq's performance between periods.

DISCLAIMERS

Non-GAAP Information (cont.)

Restructuring charges: Restructuring charges are associated with our 2015 restructuring plan to improve performance, cut costs and reduce spending and as of December 31, 2016 are primarily related to (i) severance and other termination benefits, (ii) asset impairment charges, and (iii) other charges. We exclude these restructuring costs because these costs do not reflect future operating expenses and do not contribute to a meaningful evaluation of Nasdaq's ongoing operating performance or comparison of Nasdaq's performance between periods.

Asset impairment charges: Intangible assets that have indefinite lives are reviewed for impairment at least annually, or when indicators of impairment are present. For the three months and year ended December 31, 2016, we recorded a pre-tax, non-cash asset impairment charge of \$578 million related to the full write-off of the eSpeed trade name due to a continued decline in operating performance of the eSpeed business during 2016 and a rebranding of our Fixed Income business. For the year ended December 31, 2014, we recorded pre-tax, non-cash asset impairment charges of \$49 million related to certain acquired intangible assets associated with customer relationships and certain technology assets. Refer to the non-GAAP information section for further discussion of why we consider asset impairment changes to be a non-GAAP adjustment.

Other significant items: We have excluded certain other charges or gains that are the result of other non-comparable events to measure operating performance. We believe the exclusion of such amounts allows management and investors to better understand the financial results of Nasdaq. The details of these items can be found in the footnotes to the non-GAAP adjustments in this presentation.

Significant tax items: The non-GAAP adjustment to the income tax provision includes the tax impact of each non-GAAP adjustment. In addition, we have excluded certain other tax items which are the results of non-comparable events and for which we believe the exclusion of such amounts allows management and investors to better understand the financial results of Nasdaq. The details of these items can be found in the footnotes to the non-GAAP adjustments in this presentation.

Foreign exchange impact: In countries with currencies other than the U.S. dollar, revenues and expenses are translated using monthly average exchange rates. Certain discussions in this release isolate the impact of year-over-year foreign currency fluctuations to better measure the comparability of operating results between periods. Operating results excluding the impact of foreign currency fluctuations are calculated by translating the current period's results by the prior period's exchange rates.

DISCLAIMERS

Cautionary Note Regarding Forward-Looking Statements

Information set forth in this communication contains forward-looking statements that involve a number of risks and uncertainties. Nasdaq cautions readers that any forward-looking information is not a guarantee of future performance and that actual results could differ materially from those contained in the forward-looking information. Such forward-looking statements include, but are not limited to (i) projections relating to our future financial results, total shareholder returns, growth, trading volumes, products and services, order backlog, taxes and achievement of synergy targets, (ii) statements about the closing or implementation dates and benefits of certain acquisitions and other strategic, restructuring, technology, de-leveraging and capital allocation initiatives, (iii) statements about our integrations of our recent acquisitions, (iv) statements relating to any litigation or regulatory or government investigation or action to which we are or could become a party, and (v) other statements that are not historical facts. Forward-looking statements involve a number of risks, uncertainties or other factors beyond Nasdaq's control. These factors include, but are not limited to, Nasdaq's ability to implement its strategic initiatives, economic, political and market conditions and fluctuations, government and industry regulation, interest rate risk, U.S. and global competition, and other factors detailed in Nasdaq's filings with the U.S. Securities and Exchange Commission, including its annual reports on Form 10-K and quarterly reports on Form 10-Q which are available on Nasdaq's investor relations website at <http://ir.nasdaq.com> and the SEC's website at www.sec.gov. Nasdaq undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise.

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