

## Nasdaq 2017/2016 Monthly Volumes

Equity Derivatives	U.S. equity options volume (millions of contracts)												
	January	February	March	April	May	June	July	August	September	October	November	December	
	2017	129	120	136	113	137	137	114	134	116	133		
	2016	76	73	75	75	66	81	110	114	123	107	129	121
	European options and futures volume (millions of contracts)												
	January	February	March	April	May	June	July	August	September	October	November	December	
2017	6.9	6.6	8.1	5.9	9.3	7.0	5.7	5.9	7.6	7.0			
2016	8.9	10.7	7.9	8.1	6.4	12.8	5.9	5.8	7.6	7.0	7.2	7.0	
Cash Equities	U.S. matched equity volume (millions of shares)												
	January	February	March	April	May	June	July	August	September	October	November	December	
	2017	23,208	22,759	28,773	23,015	26,859	29,473	21,675	24,849	22,592	23,701		
	2016	33,341	31,647	28,686	25,291	25,826	29,468	22,046	23,395	25,553	22,502	28,921	24,972
	European equity volume (value of shares traded, \$ billion)												
	January	February	March	April	May	June	July	August	September	October	November	December	
2017	63	70	73	63	79	78	72	75	75	88			
2016	71	81	64	69	63	73	55	61	64	66	73	62	
Fixed Income and Commodities	US Fixed income volume (\$ billion traded)												
	January	February	March	April	May	June	July	August	September	October	November	December	
	2017	1,686	1,560	1,794	1,481	1,654	1,620	1,297	1,321	1,356	1,433		
	2016	2,061	2,182	1,725	1,659	1,627	1,969	1,606	1,598	1,612	1,686	2,264	1,515
	European fixed income (millions of contracts)												
	January	February	March	April	May	June	July	August	September	October	November	December	
	2017	2.1	2.4	2.8	2.0	2.3	2.7	1.5	2.2	3.1	2.3		
	2016	1.6	2.4	2.2	2.1	1.7	1.8	1.2	1.7	2.0	1.8	2.2	1.9
	European energy clearing and trading (in Terawatt hours)												
	January	February	March	April	May	June	July	August	September	October	November	December	
2017 traded	72	55	80	44	48	46	29	39	61	60			
2017 cleared	132	105	142	81	96	91	54	82	128	114			
2016 traded	91	61	85	86	76	86	40	53	96	106	95	60	
2016 cleared	158	123	140	144	146	166	66	91	165	171	185	105	

## Nasdaq 2017/2016 Quarterly Volumes, Market Share and Listings

Equity Derivatives	U.S. equity options quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Volume (mm contracts)</b>	224	221	347	356	385	386	364	
	<i>Market share</i>	24.1%	24.5%	39.2%	39.2%	42.5%	41.4%	41.0%	
	<b>Revenue capture per contract</b>	\$0.16	\$0.16	\$0.17	\$0.16	\$0.15	\$0.15	\$0.14	
	European options and futures quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Volume (mm contracts)</b>	27.6	27.2	19.2	21.2	21.7	22.2	19.2	
	<b>Revenue capture per contract</b>	\$0.41	\$0.35	\$0.47	\$0.46	\$0.42	\$0.39	\$0.51	

Cash Equities	U.S. equity quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Matched shares (mm)</b>	93,674	80,585	70,994	76,395	74,740	79,347	69,116	
	<i>Market share</i>	17.9%	17.4%	16.8%	17.2%	17.6%	18.4%	18.1%	
	<b>Revenue capture (per 1,000 shares)</b>	\$0.47	\$0.48	\$0.51	\$0.49	\$0.47	\$0.49	\$0.52	
	European equity quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Value of shares traded (\$bn)</b>	216	205	180	201	206	220	221	
	<i>Market share</i> <sup>2</sup>	62.5%	63.6%	62.4%	65.0%	66.8%	66.1%	67.9%	
	<b>Revenue capture (per \$'000 traded)</b>	\$0.11	\$0.11	\$0.12	\$0.11	\$0.11	\$0.10	\$0.11	

Fixed Income and Commodities	U.S. Fixed income quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Volume (\$ billion traded)</b>	5,968	5,255	4,816	5,465	5,041	4,755	3,975	
	European fixed income quarterly summary <sup>3</sup>								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Volume (mm contracts)</b>	6.2	5.6	4.9	5.9	7.2	7.0	6.8	
	<b>Revenue capture per contract</b>	\$0.61	\$0.64	\$0.72	\$0.56	\$0.71	\$0.62	\$0.63	
	European energy clearing and trading quarterly summary								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	<b>Trading volume (TWh)</b>	237	248	189	261	207	138	129	
<b>Clearing volume (TWh)</b>	420	455	321	461	379	268	264		
<i>Ratio trading/clearing volume</i>	56.3%	54.4%	58.9%	56.5%	54.5%	51.6%	48.8%		
<b>Revenue capture per TWh cleared (\$'000)</b>	\$21.5	\$21.9	\$22.6	\$22.1	\$20.5	\$25.3	\$27.0		

Listings	Number of Listings								
		1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17
	Companies on The Nasdaq Stock Market	2,611	2,591	2,577	2,569	2,558	2,567	2,573	
	Companies on exchanges that comprise Nasdaq Nordic and Nasdaq Baltic	847	873	875	900	910	945	952	
	<b>Total Listed companies<sup>4</sup></b>	<b>3,458</b>	<b>3,464</b>	<b>3,452</b>	<b>3,469</b>	<b>3,468</b>	<b>3,512</b>	<b>3,525</b>	
	Exchange Traded Products on The Nasdaq Stock Market <sup>5</sup>	241	277	295	328	332	345	362	
	<b>Total Listings</b>	<b>3,699</b>	<b>3,741</b>	<b>3,747</b>	<b>3,797</b>	<b>3,800</b>	<b>3,857</b>	<b>3,887</b>	

1) Current period revenue capture is estimated until confirmed when final quarterly results are issued

2) European equity trading market share represents portion of on-exchange and MTF total volumes

3) European fixed income volume and capture excludes NLX.

4) Number of listed companies for The Nasdaq Stock Market, Nasdaq Nordic, Nasdaq Baltic exchanges and Nasdaq First North at period end.

5) Number of separately listed ETPs on the Nasdaq Stock Market