Second Quarter 2022 Earnings Presentation

C*boe[®]

July 29, 2022

Agenda

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Strategic Review	Edward Tilly Chairman and Chief Executive Officer
Financial Review	Brian Schell Executive Vice President, Chief Financial Officer and Treasurer
Questions & Answers	Edward Tilly Brian Schell
	Chris Isaacson Executive Vice President, Chief Operating Officer
	Dave Howson Executive Vice President, President
	John Deters Executive Vice President, Chief Strategy Officer

Cautionary Statements Regarding Forward-Looking Information



This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve a number of risks and uncertainties. You can identify these statements by forward-looking words such as "may," "might," "should," "expect," "plan," "anticipate," "believe," "estimate," "predict," "potential" or "continue," and the negative of these terms and other comparable terminology. All statements that reflect our expectations, assumptions or projections about the future other than statements of historical fact are forward-looking statements. These forward-looking statements, which are subject to known and unknown risks, uncertainties and assumptions about us, may include projections of our future financial performance based on our growth strategies and anticipated trends in our business. These statements are only predictions based on our current expectations and projections about future events. There are important factors that could cause our actual results, level of activity, performance or achievements to differ materially from those expressed or implied by the forward-looking statements.

We operate in a very competitive and rapidly changing environment. New risks and uncertainties emerge from time to time, and it is not possible to predict all risks and uncertainties, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.

Some factors that could cause actual results to differ include: the loss of our right to exclusively list and trade certain index options and futures products; economic, political and market conditions; compliance with legal and regulatory obligations; price competition and consolidation in our industry; decreases in trading or clearing volumes, market data fees or a shift in the mix of products traded on our exchanges; legislative or regulatory changes or changes in tax regimes; our ability to protect our systems and communication networks from security risks, cybersecurity risks, insider threats and unauthorized disclosure of confidential information; our ability to attract and retain skilled management and other personnel; increasing competition by foreign and domestic entities; our dependence on and exposure to risk from third parties; fluctuations to currency exchange rates; factors that impact the quality and integrity of our indices; the impact of the novel coronavirus ("COVID-19") pandemic; our ability to operate our business without violating the intellectual property rights of others and the costs associated with protecting our intellectual property rights; our ability to minimize the risks, including our credit and default risks, associated with operating a European clearinghouse; our ability to accommodate trading and clearing volume and transaction traffic, including significant increases, without failure or degradation of performance of our systems; misconduct by those who use our markets or our products or for whom we clear transactions; challenges to our use of open source software code; our ability to meet our compliance obligations, including managing potential conflicts between our regulatory responsibilities and our for-profit status; our ability to maintain BIDS Trading as an independently managed and operated trading venue, separate from and not integrated with our registered national securities exchanges; damage to our reputation; the ability of our compliance and risk management methods to effectively monitor and manage our risks; our ability to manage our growth and strategic acquisitions or alliances effectively; restrictions imposed by our debt obligations and our ability to make payments on or refinance our debt obligations; our ability to maintain an investment grade credit rating; impairment of our goodwill, long-lived assets, investments or intangible assets; the accuracy of our estimates and expectations; litigation risks and other liabilities; and operating a digital asset business and clearinghouse, including the expected benefits of our ErisX acquisition, cybercrime, changes in digital asset regulation, losses due to digital asset custody, and fluctuations in diaital asset prices. More detailed information about factors that may affect our actual results to differ may be found in our filings with the SEC, including in our Annual Report on Form 10-K for the year ended December 31, 2021 and other filings made from time to time with the SEC.

We do not undertake, and we expressly disclaim, any duty to update any forward-looking statement whether as a result of new information, future events or otherwise, except as required by law. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof.

This presentation includes market share, financials and industry data that we obtained from industry publications and surveys, reports of governmental agencies, third-parties and internal company surveys. Industry publications and surveys generally state that the information they contain has been obtained from sources believed to be reliable, but we cannot assure you that this information is accurate or complete. We have not independently verified any of the data and financials from third-party sources nor have we ascertained the underlying economic assumptions relied upon therein. Statements as to our market position are based on the most currently available market data. While we are not aware of any misstatements regarding industry data and financials presented herein, our estimates involve risks and uncertainties and are subject to change based on various factors.

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Strategic Review and Outlook

Edward Tilly Chairman and CEO

2Q22: Strong Revenue and Earnings Generation Continues

Net revenues grew 21% YoY, a product of strong transaction and non-transaction growth

7% increase in Cash and Spot Markets net revenue, 3% organic net revenue growth¹

- ✤ ADNV traded on Cboe European Equities up 49%
- 30% increase in Derivatives Markets organic net revenue¹
 - ADV up 46% in index options and 12% in multi-listed options
- 20% increase in Data and Access Solutions net revenue, 14% organic net revenue growth¹
 - Continued expansion in transaction capabilities driving increased access and capacity units
 - Comprehensive suite of data solutions across markets and asset classes is translating to strong user growth



¹See appendix for "Non-GAAP Information."

Top Strategic Growth Priorities



	Key Trends	Market Opportunity	Sizing the Growth Potential	Cboe Progress
Data and Access Solutions	 Globalization Access to multi-asset trading capabilities Rise of retail Demand for data ESG 	 > \$33bn annual spend on financial market data¹ >\$4bn annual spend in indices¹ 	 Targeting organic net revenue growth of 7-10% annually over the medium term ³ 	 Delivered 14% organic net revenue growth⁵ in 2Q22 Increased targeted DnA organic net revenue growth in 2022³ to 10-13%
Derivatives	 Globalization Access to multi-asset trading capabilities Rise of retail Demand for data ESG 	 Targeting >150mn retail accounts for Nanos² Pan-European equity and index options market is ~1/8 the size of the U.S. market 	 Derivatives initiatives expected to contribute 2- 4% of total organic net revenue growth over the medium term³ 	 24x5 trading extension on pace to more than double SPX global trading hour vol Tuesday weekly expirations went live on 4/18, Thursday expirations on 5/11, both have seen strong early traction
Cboe Digital	 Globalization Access to multi-asset trading capabilities Rise of retail Demand for data 	 Demand for a trusted, transparent and regulated digital asset marketplace 	 Expecting >25% market CAGR over next 3-5 years⁴ 	 Closed in 2Q22 Engaging customers and partners Active in crypto regulation discussion

¹Based on Burton-Taylor research reports

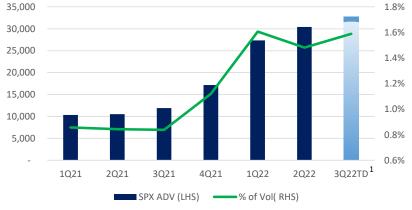
²Estimate based on 2021 analysis of top 4 retail brokers' platforms

³See appendix for "Non-GAAP Information" for disclosures on growth targets; all medium-term guidance as of 2/4/22, all 2022 guidance as of 7/29/22 ⁴Based on publicly available information and Cboe estimates ⁵See appendix for "Non-GAAP Information."

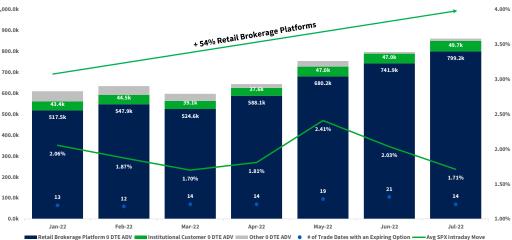
Global Derivatives: Extending the Market Potential

Increasing access for market participants and leveraging our core products

Tuesday / Thursday Expiry 24x5 **Providing Attractive Return on Investment** Leveraging Cboe's Core Strength Tuesday expirations: S&P 500 Index (SPX) Weeklys with Tuesday • **Returns remain positive:** Since Global Trading Hours expirations began trading on April 18 and Thursday expirations began were expanded on November 21st to nearly 24x5 for on May 11 SPX and VIX options, early adoption has been solid Incremental impact of Tuesday / Thursday: Our initial analysis • Early Returns: 24x5 SPX volumes continued to indicates adding Tuesday / Thursday expirations have added over 200k expand during the record-breaking quarter in incremental SPX ADV SPXW Day of Expiry ADV vs Avg SPX Intraday Move SPX GTH Volume and % of Total Volume 1.000.0k 35.000 1.8% + 54% Retail Brokerage Platforms 900.0k 1.6% 800.0k 1.4% 700.0k 680.2k 1.2% 600.0k 588.1k 43 41 547.9k 500.0k







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Data and Access Solutions: Driving Durable Growth

DnA Growth has been strong:

- Averaged 19% year-over-year quarterly growth in total DnA revenues since 1Q21
- Continued to see strong growth trends across both proprietary market data and access and capacity fees
- Anticipate new opportunities across the data and access solutions ecosystem will help drive future growth

Many Avenues of Potential Future Growth Packaging our Global Content

Distribution as a Service

Distributing 3rd party data across the Cboe network

- Strengthens Cboe's streaming data services, Cboe Global Indices Feed, of more than 400 real-time indices
- Leverages global footprint and extensive list of industry vendors and partners
- 24x7 distribution service with a quick to market contributor API, leading to the recently-announced partnership with Morningstar

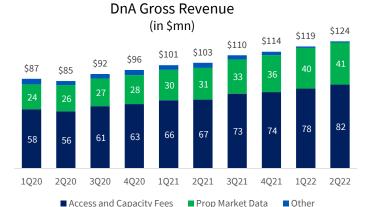
Providing a cohesive, low-cost global data offering

- Leverages Cboe's market-leading position in multiple asset classes around the globe
- Reduces frictions through a consistent and uniform data feed, across geographies
- Ability to price competitively against incumbents

Expanding Global Data Distribution

Improving global access through technology

- Launched Cboe Global Cloud in Nov. 2021, adding European data to Cboe Global Cloud this summer
- Lower connectivity costs to obtain data in key locations globally
- Greater ability for regional data vendors to redistribute Cboe data



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Building an Unrivaled Global Derivatives and Securities Network

Europe

- Grew European equities market share by nearly 6% in 2Q22
- Launched four additional Cboe Europe single country index benchmark derivative contracts
- Steady gains in clearing

North America

- Record monthly SPX volumes in June
- Successful launch of Tuesday / Thursday expirations
- Closed Acquisition of NEO in 2Q22, bolstering Canadian mkt share and providing a global listings business

• Grew market share in Japan from

Asia Pacific

- 2.5% in 2Q21 to 3.5% in 2Q22
- Grew market share in Australia from 16% in 2Q21 to 17% in 2Q22

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 On track for Cboe Australia tech migration in Feb 2023

Global FX

- Grew net revenues 20% in 2Q22 vs. 2Q21
- Expanded market share

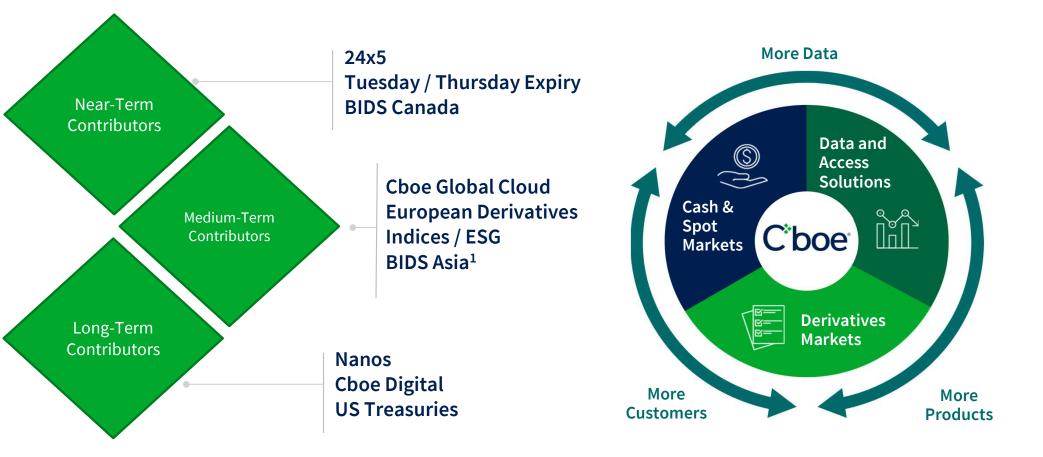
Uniform Data & Access

Focus on Integration: Strategic M&A is a Core Competency of Cboe

		More	
Transaction	Strategic Rational Highlights	Integration Progress	Integration & Planned Organic Growth Focus
FT Options Hanweck Trade Alert	 Enhanced Proprietary Products Foundation for risk management and analytic services 	Touches: □ Cash ✔ DnA ✔ Derivs	 Hanweck enhanced ticker plant infrastructure supporting distribution of data to our products Created Cboe Theoretical Options pricing service Harmonize client front-ends into cohesive offering
EuroCCP	Asset Class DiversityClearing Capability	Touches: ✓ Cash ✓ DnA ✓ Derivs	 Reinforced clearinghouse Added derivatives clearing Launched Euro derivatives Extend clearing network Expand tradable products (Volatility, Index, ETFs, retail)
MATCHNow NEO	Geographic DiversityMarket data content and network	Touches: ✓ Cash ✓ DnA □ Derivs	 Migrated MATCHNow to Cboe technology Launched Cboe BIDS Canada Add new order types Integrate NEO and migrate to Cboe platform Expand global listings
BIDS	 Geographic Diversity Asset Class Diversity Leverage Existing Network 	Touches: ✓ Cash	 Consistently integrated across the U.S., Europe and Canada Expand into Australia and Japan
Chi-X Asia Pacific	Geographic DiversityMarket data content and network	Touches: ✓ Cash ✓ DnA □ Derivs	 Migrate to Cboe technology Launch Cboe BIDS in Australia and Japan Cross-sell data and FX Enhance AUS/Global Listings Increase distribution and access of proprietary products
ErisX	Asset Class DiversityClearing Capability	Tender	 Enhance flow through syndication Margined futures
ertain potential initiatives are subject to	o regulatory approval.	Touches: Cash DnA Derivs 	

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Harvesting Investments Across Seasons to Drive Consistent Growth



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Financial Overview and Guidance

Brian Schell EVP, CFO and Treasurer

2Q22 Financial Summary







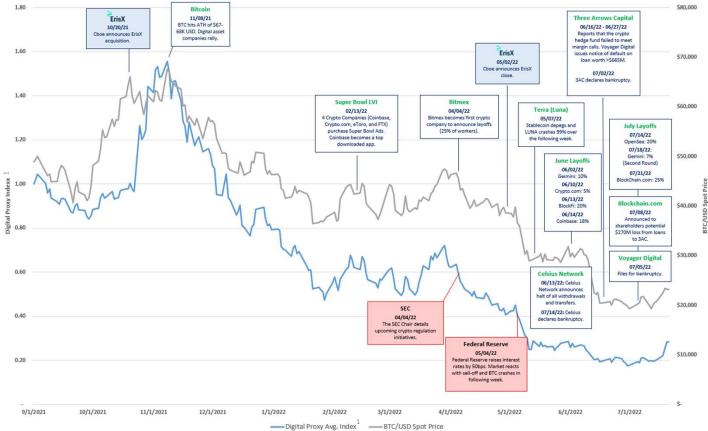




¹See appendix for "Non-GAAP Information."

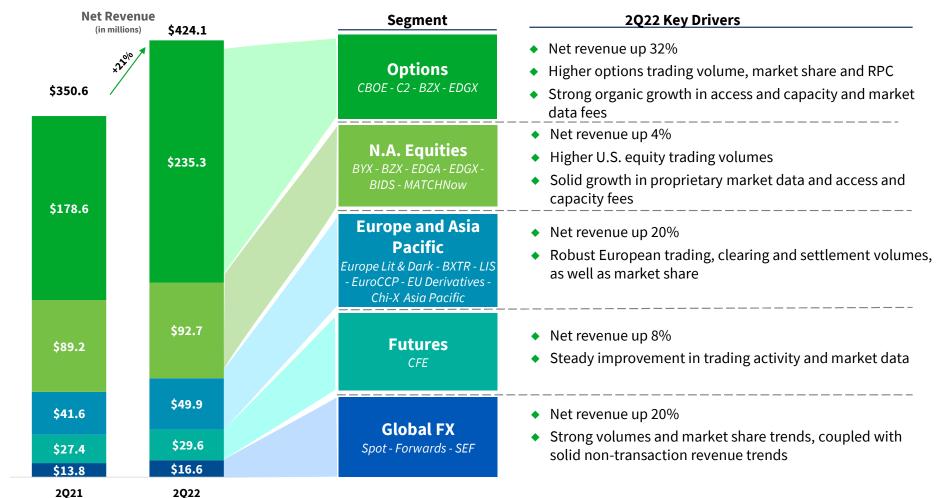
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2021-2022 Digital Asset Ecosystem Timeline



¹ Digital Proxy Avg. Index self-calculated, comprised of an equal weighting of public companies directly affected by the digital asset environment: **Tickers:** COIN, GLXY-TSE, HOOD, BKKT, MARA, RIOT, SDIG, SI, VOYG-TSE

2Q22 Net Revenue by Segment and Key Drivers¹



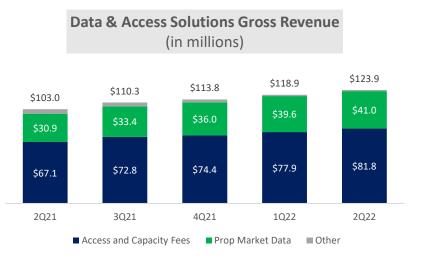
¹ The Digital segment is not further discussed as results were not material given its establishment during the second quarter of 2022 as a result of the ErisX acquisition on May 2, 2022, outside of the goodwill impairment charge recorded in the second quarter of 2022.

Grew Data and Access Solutions Net Revenue 20% YoY, Organic Growth of 14%¹, Exceeded Targeted Growth Rate

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Increased targeted 2022 organic growth rate for Data and Access Solutions business to 10-13% from 8-11%, ahead of our medium-term guidance²

- 2Q22 Data and Access Solutions net revenue of \$121.6 million up 20%; organic growth of 14% YoY²
 - Excludes \$7 million of revenue from acquisitions¹
- 2Q22 growth of Data and Access Solutions revenue exceeded target
 - Increasing target for 2022 annual organic net revenue growth to 10-13% from 8-11%
 - Additional units or subscribers expected to remain a key driver of organic DnA revenue growth
- Over 75% of organic market data revenue growth and organic access and capacity fee revenue growth in 2Q22 driven by additional subscriptions or incremental units



2Q22 Adjusted Operating Expenses Up 22%, Primarily Driven by Acquisitions

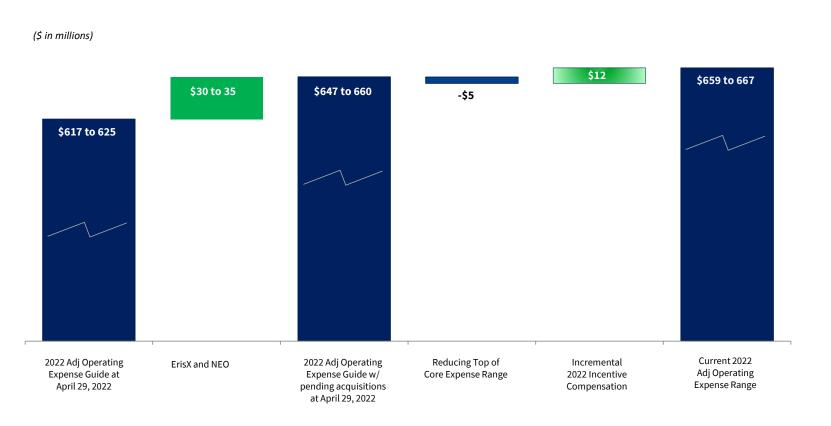
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- 2Q22 expense increase primarily driven by addition of Cboe Asia Pacific, ErisX and NEO
- \$19 million increase in compensation-related expenses
- \$4 million increase in travel and promotional fees
- Excluding acquisitions, adjusted operating expenses¹ were up \$15 million or 12%

Adjusted Operating Expenses ¹ (in millions)	2Q22	2Q21	\$ Chg	% Chg
Compensation and benefits	\$86.2	\$67.7	\$18.5	27%
Depreciation and amortization ¹	10.1	10.1	\$0.0	0%
Technology support services	18.1	16.2	\$1.9	12%
Professional fees and outside services	24.1	22.4	\$1.7	8%
Travel and promotional	5.5	1.9	\$3.6	189%
Facilities costs	6.6	5.4	\$1.2	22%
Other expenses	6.4	4.6	\$1.8	39%
Total ¹	\$157.0	\$128.3	\$28.7	22%

¹Adjusted to reflect the impact of certain items. See Appendix for "Non-GAAP Information."

Adjusted Operating Expense Guidance for 2022¹



¹See next slide for additional guidance information.

Updated 2022 Guidance

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2022 Full-Year Guidance ^{1, 2}	2022 Guidance as of	2022 Guidance as of	2022 Guidance as of	2021 Actual ³
(\$ in millions)	July 29, 2022	Apr. 29, 2022	Feb. 4, 2022	
Data and Access Solutions ⁴ organic revenue growth rate	10 to 13%	8 to 11%	7 to 10%	15%
Net revenue growth from acquisitions held <12 months	2 to 3%	2 to 3%	1 to 3%	7%
Total organic net revenue growth rate	9 to 11%	5 to 7%	5 to 7%	11%
Adjusted operating expenses ⁵	\$659 to \$667	\$617 to \$625	\$617 to \$625	\$531
Depreciation and amortization (excluding amortization of acquired intangible assets)	\$40 to \$44	\$40 to \$44	\$40 to \$44	\$41
Effective tax rate on adjusted earnings	27.5 to 29.5%	27.5 to 29.5%	27.5 to 29.5%	27.7%
Capital expenditures	\$47 to \$52	\$47 to \$52	\$47 to \$52	\$51

¹Specific quantifications of the amounts that would be required to reconcile the company's organic and inorganic growth guidance, adjusted operating expenses guidance and the effective tax rate on adjusted earnings guidance are not available. The company believes that there is uncertainty and unpredictability with respect to certain of its GAAP measures, primarily related to acquisition-related revenues and expenses that would be required to reconcile to GAAP revenues less costs of revenues, GAAP operating expenses and GAAP effective tax rate, which preclude the company form providing accurate guidance on certain forward-looking GAAP to non-GAAP reconciliations. The company believes that providing estimates of the amounts that would be required to reconcile the company's organic growth, adjusted operating expenses and the effective tax rate on adjusted earnings would imply a degree of precision that would be confusing or misleading to investors for the reasons identified above.

²Guidance includes acquisitions completed through July 29, 2022, and investment in launching pan-European trading and clearing.

³See "Non-GAAP Information" in the appendix for reconciliations of 2021 actual.

⁴Represents Access and Capacity Fees, Proprietary Market Data and revenue generated from licensing and indices related revenue reported in "Other Revenue."

⁵Adjusted operating expenses exclude acquisition-related expenses and amortization of acquired intangible assets. The amortization of acquired intangible assets was \$127 million for 2021 and is now expected to be \$125 million for 2022. Adjustments included in the non-GAAP reconciliation.

Efficient Allocation of Capital to Create Long-Term Shareholder Value

Preserving balance sheet flexibility remains a priority

- Capital allocation priorities include:
 - Investing in the growth of our business
 - Inorganic opportunities to facilitate growth strategy
 - Consistent dividend payments and growth
 - Opportunistic share repurchases
- Returned \$51 million in capital through dividends and \$16 million in share repurchases in 2Q22; \$233mn of availability remaining under share repurchase authorizations

Debt Outstanding (\$ in millions)	June 30, 2021	Sept. 30, 2021	Dec. 31, 2021	Mar. 31, 2022	June 30, 2022
3.650% Senior Notes (10Y; Due 2027)	\$650	\$650	\$650	\$650	\$650
3.000% Senior Notes (10Y; Due 2032)	-	-	-	300	300
1.625% Senior Notes (10Y; Due 2030)	500	500	500	500	500
Revolving Credit Agreement	-	-	-	-	-
Term Loan Facility	160	160	160	160	525
EuroCCP Credit Facility	-	-	-	-	-
Total Debt (Gross)	\$1,310	\$1,310	\$1,310	\$1,610	\$1,975
Debt to EBITDA TTM ¹	1.5x	1.4x	1.3x	1.6x	1.9x
Adjusted Cash & Financial Investments ¹	\$443	\$393	\$325	\$660	\$349
Share Repurchases	\$33.7	\$0.0	\$0.0	\$70.0	\$15.6
Dividends Paid	45.0	51.5	51.5	51.4	51.2
Total Capital Returned to Shareholders	\$78.7	\$51.5	\$51.5	\$121.4	\$66.8

¹See Appendix for "Non-GAAP Information."

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Positioned to Innovate, Integrate and Grow to Create Value

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Innovate to capture growing demand for trading products and data services, globally

- Increase access to data products and trading solutions
- Unrivaled transaction capabilities

- Global presence in highest value markets
- Develop indices and products to meet growing ESG needs

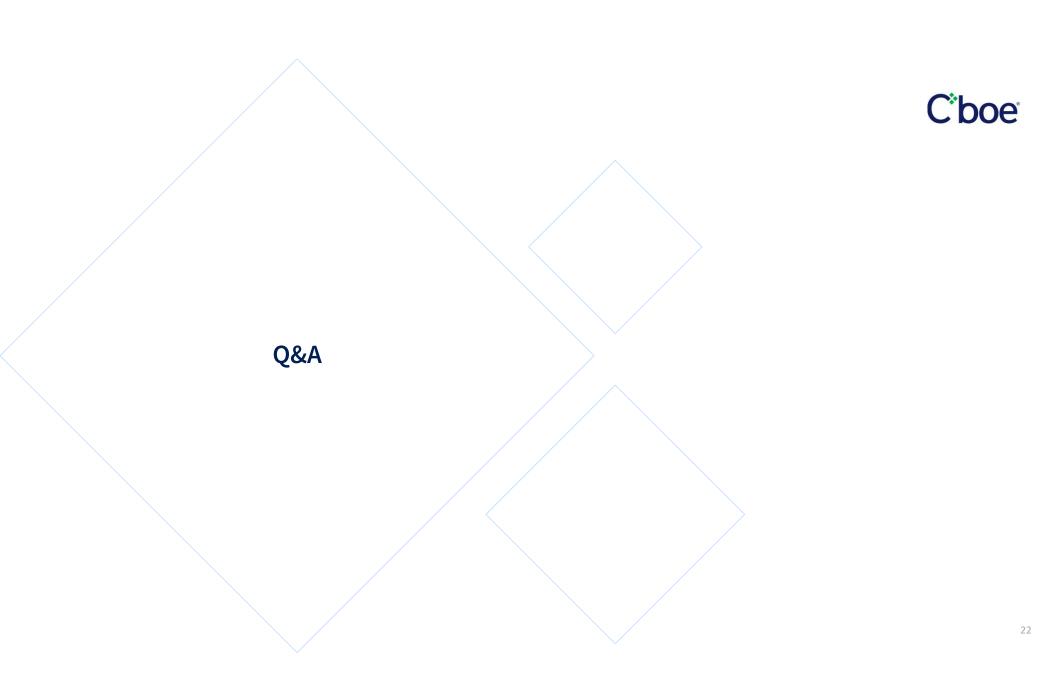
Integrate across ecosystem to increase efficiency and better serve customers

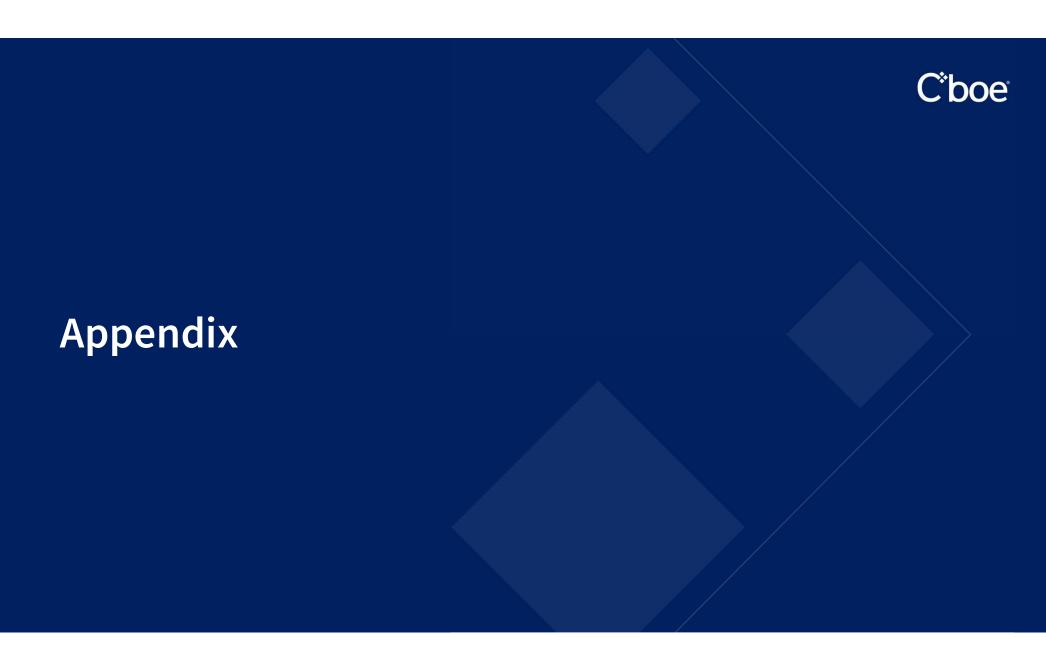
- Industry-leading technology
- Non-siloed integrations expand ecosystem & fuels flywheel
- Strong cash flow generation and operating efficiency

Grow by accessing untapped addressable markets

пΠП

- Proven organic investment and M&A track record
- Expands and diversifies revenue opportunity set





Options 2Q22 Net Revenue Up 32%, Reflecting Y/Y Increase in ADV and Recurring Non-transaction Revenue

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- Higher transaction fees from index and multi-listed options given stronger volumes, market share and RPC
- Access and capacity fees plus proprietary market data were up a combined 34%

Options Selected Revenue Data (\$ in millions)	2Q22	2Q21	Chg
Net Revenue	\$235.3	\$178.6	32%
Net transaction and clearing fees ¹	\$188.7	\$134.1	41%
Index options	146.5	95.3	54%
Multi-listed options	42.2	38.8	9%
Access and capacity	\$38.3	\$29.6	29%
Market data	\$27.1	\$21.0	29%
Market data – proprietary	18.6	13.0	43%
Market data – industry	8.5	8.0	6%
Options Key Operating Stats	2Q22	2Q21	Chg
Total market share	33.2%	30.4%	2.7pts
Multi-listed options	28.3%	26.8%	1.5pts
Total ADV (in thousands)	13,054	11,092	18%
Index options	2,677	1,838	46%
Multi-listed options	10,378	9,254	12%
Total RPC	\$0.233	\$0.192	21%
Index options	\$0.883	\$0.823	7%
Multi-listed options	\$0.066	\$0.067	-2%

¹See appendix for "Non-GAAP Information."

North American (N.A.) Equities 2Q22 Net Revenue Up 4%, Driven by Solid Industry Volumes



- Net revenue increase reflects \$1.7 million contribution from NEO
- U.S. equities transaction and clearing fees were helped by higher year-over-year industry volumes
- Access and capacity fee growth remained strong, up 15% as compared to 2Q21

N.A. Equities Selected Revenue Data (\$ in millions)	2Q22	2Q21	Chg
Net Revenue	\$92.7	\$89.2	4%
Net transaction and clearing fees ¹	\$32.6	\$29.6	10%
Market data	\$31.2	\$34.8	-10%
Market data - proprietary	11.9	10.9	9%
Market data - SIP ²	19.3	23.9	-19%
Access and capacity fees	\$27.3	\$23.8	15%
N.A. Equities Key Operating Stats	2Q22	2Q21	Chg
U.S. Equities Exchange (shares in billions)			
Total Market Share	13.6%	14.3%	-0.8pts
Market ADV	12.6	10.5	20%
ADV (matched shares)	1.7	1.5	13%
Net capture (per 100 touched shares)	\$0.020	\$0.020	0%
U.S. Equities Off-Exchange (shares in millions)			
Off-Exchange ATS Block Market Share % ³	24.5%	22.2%	2.3pts
ADV (matched shares)	92.7	75.8	22%
Net capture (per 100 touched shares)	\$0.108	\$0.123	-12%
Canadian Equities (shares in millions) ⁴			
Market Share Percent - TSX Listed	4.1%	5.0%	-0.9pts
ADV (matched shares, in millions)	36.0	47.4	-24%
Net capture (per 10,000 touched shares, in CAD)	CAD 9.328	CAD 7.782	20%

¹See appendix for "Non-GAAP Information."

²Includes SIP audit recoveries of \$0.8 million in 2Q22 and \$0.4 million in 2Q21.

³Represents market share for 2Q22 through May 2022.

⁴Represents MATCHNow, does not include NEO.

Europe and APAC Net Revenue Up 20% for 2Q22, Helped by Higher Volumes and Inclusion of Cboe Asia Pacific

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- Net revenue increase reflects \$8.2 million contribution from Cboe Asia Pacific and higher activity levels
- Increase in net transaction fees, driven by strong increases in European equities trading volumes
- Cboe Europe's overall equities market share was 23.2% in 2Q22 versus 17.4% in 2Q21
- Cboe saw solid performance in all segments of the market lit, Cboe BIDS Europe and Cboe Europe Periodic Auctions

Europe and APAC Selected Revenue Data (\$ in millions)	2Q22	2Q21	Chg
Net Revenue	\$49.9	\$41.6	20%
Net transaction and clearing fees ¹	\$27.2	\$23.0	18%
Net transaction fees	19.3	14.8	30%
Net clearing fees	7.9	8.2	-4%
Market data	\$8.1	\$5.1	59%
Access and capacity fees	\$8.7	\$7.2	21%
Other ²	\$5.9	\$6.3	-6%
Europe Key Operating Stats	2Q22	2Q21	Chg
European Equities:			
Total market share	23.2%	17.4%	5.8pts
Market ADNV (in billions)	€ 46.9	€ 42.0	12%
Net capture (per matched notional value, in bps)	0.238	0.267	-11%
EuroCCP:			
Trades cleared (in millions)	356.4	294.8	21%
Fee per trade cleared	€ 0.009	€ 0.011	-14%
Net settlement volume (in millions)	2.5	2.4	6%
Net fee per settlement	€ 0.808	€ 0.893	-10%
APAC Key Operating Stats	2Q22	2Q21	Chg
Australian Equities:			
Total market share	17.0%		
Market ADNV (AUD in billions)	\$0.8		
Net capture (per matched notional value, in bps)	\$0.171		
Japanese Equities:			
Total market share	3.5%		
Market ADNV (JYP in billions)	¥136.0		
Net capture (per matched notional value, in bps)	¥0.258		

¹See appendix for "Non-GAAP Information." ²Primarily includes trade reporting and EuroCCP net interest income, NM = not meaningful

Futures 2Q22 Net Revenue Up 8%, Reflecting Volume and RPC Gains



- Revenue increase driven by contributions from both transaction and non-transaction revenues
- Activity levels and RPC each saw modest improvements relative to 2Q21 levels

Futures Selected Revenue Data (\$ in millions)	2Q22	2Q21	Chg
Net Revenue	\$29.6	\$27.4	8%
Net transaction and clearing fees ¹	\$23.0	\$22.2	4%
Access and capacity	\$5.2	\$4.3	21%
Market data	\$2.1	\$1.7	24%
Futures Key Operating Stats (in thousands, except RPC)	2Q22	2Q21	Chg
Total ADV	222	214	3%
Total RPC	\$1.677	\$1.648	2%

¹See appendix for "Non-GAAP Information."

Global FX Net 2Q22 Revenue Up 20%

- Revenue increase driven by higher volumes and continued market share gains
- Market share trends remained solid at 17.0%

FX Selected Revenue Data (\$ in millions)	2Q22	2Q21	Chg
Net Revenue	\$16.6	\$13.8	20%
Net transaction and clearing fees ¹	13.9	11.5	21%
Non-transaction revenue	2.7	2.3	17%
FX Key Operating Stats	2Q22	2Q21	Chg
FX Key Operating Stats Market share ¹	2Q22 17.0%	2Q21 16.3%	Chg 0.7pts

¹See appendix for "Non-GAAP Information."

²Market share represents Cboe FX volume divided by the total volume of publicly reporting spot FX venues (Cboe FX, EBS, Refinitiv, and FastMatch).

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Second Quarter Financial Overview

Adjusted Financial Results ¹ (\$ in millions, except per share)	2Q22	2Q21	% Chg
Net Revenue ²	\$424.1	\$350.6	21%
Adjusted Operating Expenses ¹	\$157.0	\$128.3	22%
Adjusted Operating Income ¹	\$267.1	\$222.3	20%
Adjusted Operating Margin ¹	63.0%	63.4%	-0.4pts
Adjusted Net Income Allocated to Common Stockholders ¹	\$177.3	\$147.4	20%
Adjusted Diluted EPS ¹	\$1.67	\$1.38	21%
Adjusted EBITDA ¹	\$274.2	\$233.6	17%
Adjusted EBITDA Margin ¹	64.7%	66.6%	1.9pts

¹Adjusted to reflect the impact of certain items. See Appendix for "Non-GAAP Information."

²Net revenue referenced in this presentation represents revenue less cost of revenues.

Net Revenue Detail

C^{*}boe^{*}

- Derivatives Markets driven by strong transaction and clearing fees
- Data and Access Solutions benefited from strong new subscription / unit growth

Net Revenue (in millions)	2Q22	2Q21	% Chg
Cash and Spot Markets	\$101.2	\$94.8	7%
Data and Access Solutions	121.6	101.0	20%
Derivatives Markets	201.3	154.8	30%
Total	\$424.1	\$350.6	21%

Expense Bridge Summary

Adjusted Operating Expenses Bridge for 2020 to 2021	
(\$ in millions)	
2020 adjusted operating expenses ¹	\$ 416
Acquisitions	49
Non-recurring savings	12
Core	17
Facilities overlap	5
Investments	12
EU derivatives buildout	8
Chi-X 2H21 investment	12
	\$ 115
2021 adjusted operating expenses ¹	\$ 531

Prioritizing investments to:

- Broaden geographic footprint (Cboe APAC, Euro derivs)
- Leverage core capabilities (24x5, BIDS and Nanos) and
- Expanding our access (Derivatives, Cloud)

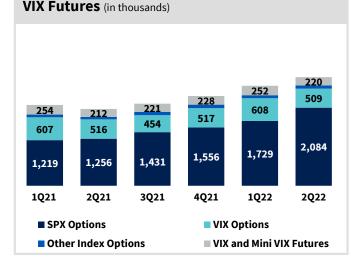
Adjusted Operating Expenses Bridge for 20	021 to	2022		
(\$ in millions)				
2021 adjusted operating expenses ¹	\$	531	*Guidan	ice Range
2021 Acquisitions			22	22
Core			31	31
Revenue Investments			23	26
Infrastructure Investments			10	10
Incentive Compensation			12	12
ErisX and Neo			30	35
			128	136
2022 Guidance as of July 29, 2022			659	667

¹Adjusted to reflect the impact of certain items. See Appendix for "Non-GAAP Information." *Totals may not foot due to rounding Cboe

Focused on Growing Highest-Margin Proprietary Index Suite

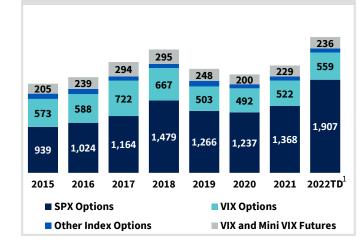
Index customers at Cboe typically use SPX and VIX options and futures interchangeably or in tandem, depending on market conditions

- Plan to further penetrate existing markets with an emphasis on education, targeting key market segments and geographies
 - Expanded global trading hours for SPX and VIX options in November 2021
 - Launched Nanos by Cboe in March 2022, small and simple options designed for retail traders; available on Mini-S&P 500 index option
 - Launched Tuesday-expiring SPX weeklys April 18, 2022, Thursday expirations on May 11, 2022
- Engaging institutional and retail investors through derivatives education forums



Quarterly ADV for Index Options and





¹2022TD is through 2022.

Cboe's Commitment to ESG Initiatives

Cboe



Environmental





- Reducing our impact: Implemented business recycling, repurposing, and waste management reduction programs and provide pre-tax public transportation and bike sharing passes
- ESG Exchange Traded Products: Trade ESG-themed ETPs (as defined by issuers) on the BZX Equities Exchange and list options on the S&P 500 ESG Index
- **SSE member:** Named a founding member of the SSE derivatives network

- Cboe Empowers: Community engagement program that provides mentorship, scholarships and guidance to under-resourced students throughout their educational journey. In April, provided five full-ride scholarships to Black and Latinx high school students from the South and West sides of Chicago to attend the school of their choice
- **Diversity:** Cboe sees diversity as an integral part of every step in human capital management. As a result, we have recently outlined several social impact goals for the coming years
- **Charity:** Cboe made over \$3.7mn in charitable contributions through a variety of giving programs in 2021

• Independent Board: 12 of the 13 Directors are independent

Governance

- Accountability: Pay for performance philosophy, with a strong emphasis on strategy and risk oversight
- Fresh perspectives: 9 years average tenure of Board
- Diverse Board: 43% of Directors represent gender and ethnic diversity: 21% of Directors women and 21% African American/Asian-American*

* May not foot due to rounding.



Non-GAAP Information

Non-GAAP Information



In addition to disclosing results determined in accordance with GAAP, Cboe Global Markets has disclosed certain non-GAAP measures of operating performance. These measures are not in accordance with, or a substitute for, GAAP, and may be different from or inconsistent with non-GAAP financial measures used by other companies. The non-GAAP measures provided in this presentation include net transaction and clearing fees, adjusted operating expenses, adjusted operating income, organic net revenue, inorganic net revenue, adjusted operating margin, adjusted net income allocated to common stockholders and adjusted diluted earnings per share, adjusted income before income taxes, adjusted revenue less cost of revenue, effective tax rate on adjusted earnings, adjusted cash, EBITDA, EBITDA margin, adjusted EBITDA and adjusted EBITDA margin.

Management believes that the non-GAAP financial measures presented in this presentation, including adjusted operating income, organic net revenue and adjusted operating expenses, provide additional and comparative information to assess trends in our core operations and a means to evaluate period-to-period comparisons. Non-GAAP financial measures disclosed by management are provided as additional information to investors in order to provide them with an alternative method for assessing our financial condition and operating results.

Organic net revenue, inorganic net revenue, organic adjusted operating expenses and organic net revenue guidance: These are non-GAAP financial measures that exclude or have otherwise been adjusted for the impact of our acquisitions for the period or guidance, as applicable. Management believes the organic net revenue growth and guidance measures provide users with supplemental information regarding the company's ongoing and future potential revenue performances and trends by presenting revenue growth and guidance excluding the impact of the acquisitions. Revenues from acquisitions that have been owned for at least one year are considered organic and are no longer excluded from organic net revenue from either period for comparative purposes.

Amortization expense of acquired intangible assets: We amortize intangible assets acquired in connection with various acquisitions. Amortization of intangible assets is inconsistent in amount and frequency and is significantly affected by the timing and size of our acquisitions. 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 the company. Therefore, we believe performance measures excluding intangible asset amortization expense provide investors with an additional basis for comparison across accounting periods.

Acquisition-related expenses: From time to time, we have pursued small acquisitions and in 2017 completed a larger transformative acquisition, which have resulted in expenses which would not otherwise have been incurred in the normal course of the company's business operations. These expenses 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 an additional analysis of Cboe's ongoing operating performance or comparisons in Cboe's performance between periods.

The tables below show the reconciliation of each financial measure from GAAP to non-GAAP. The non-GAAP financial measures exclude the impact of those items detailed below and are referred to as adjusted financial measures.

C^{boe}

Non-GAAP Information

Reconciliation of Net Transaction and Clearing Fees by Segment

For the Three Months Ended	Options										a Pacific		Futu	ures			Glob	bal FX		Total		tal	
September 30 (in millions)		2021		2020	2021		2020		2021	2	020	2	2021	2	020	2	021	2	020		2021		2020
Transaction and clearing fees	\$	308.4	\$	241.4	\$ 253	.2	\$ 253.0	\$	36.2	\$	23.4	\$	23.2	\$	16.8	\$	11.9	\$	10.9	\$	632.9	\$	545.5
Liquidity payments		(152.7)		(130.1)	(216	.9)	(225.1)		(5.7)		(4.2)		-		-		-		-		(375.3)		(359.4)
Routing and clearing		(5.2)		(5.2)	(9	.0)	(9.7)		(4.7)		-		-		-		(0.1)		-		(19.0)		(14.9)
Net transaction and clearing fees	\$	150.5	\$	106.1	\$ 27	.3	\$ 18.2	\$	25.8	\$	19.2	\$	23.2	\$	16.8	\$	11.8	\$	10.9	\$	238.6	\$	171.2

For the Three Months Ended	Ор	tions	N.A. E	quities	Europe and	Asia Pacific	Fut	ures	Glob	al FX	То	tal
December 31 (in millions)	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
Transaction and clearing fees	\$ 330.9	\$ 269.9	\$ 270.1	\$ 265.1	\$ 41.1	\$ 30.0	\$ 24.2	\$ 16.0	\$ 12.5	\$ 11.7	\$ 678.8	\$ 592.7
Liquidity payments	(162.2) (145.0)	(226.3)	(237.0)	(7.2)	(4.7)	-	-	-	-	(395.7)	(386.7)
Routing and clearing	(6.9) (4.6)	(9.8)	(10.4)	(4.9)	(6.8)	-	-	(0.2)	-	(21.8)	(21.8)
Net transaction and clearing												
fees	\$ 161.8	\$ 120.3	\$ 34.0	\$ 17.7	\$ 29.0	\$ 18.5	\$ 24.2	\$ 16.0	\$ 12.3	\$ 11.7	\$ 261.3	\$ 184.2

For the Three Months Ended		Opti	ions		N.A. E	quities	E	Europe and	Asi	a Pacific		Futi	ıres			Glob	al F)	(To	tal	
March 31 (in millions)	20)22	2021		2022	2021		2022	2	2021	- 2	2022	2	2021	2	022	2	2021	2	022	202	1
Transaction and clearing fees	\$ 3	348.3	\$ 308.	7 \$	\$ 330.8	\$ 381.8	3	\$ 50.1	\$	34.7	\$	25.8	\$	25.6	\$	14.6	\$	12.4	\$	769.6	\$ 76	3.2
Liquidity payments	(1	167.6)	(166.	D)	(288.3)	(330.5	5)	(11.6)		(5.3)		-		-		-		-	(467.5)	(50	1.8)
Routing and clearing		(6.7)	(5.	5)	(10.5)	(17.3	3)	(4.9)		(4.3)		-		-		(0.2)		-		(22.3)	(2	7.1)
Net transaction and clearing																						
fees	\$ 1	174.0	\$ 137.	2 \$	5 32.0	\$ 34.0) :	\$ 33.6	\$	25.1	\$	25.8	\$	25.6	\$	14.4	\$	12.4	\$	279.8	\$ 23-	4.3

For the Three Months Ended	Opt	ions	N.A. Ed	quities	Europe and	Asia Pacific	Fut	ures	Glob	al FX	Dig	gital	То	tal
June 30 (in millions)	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Transaction and clearing fees	\$ 353.0	\$ 283.2	\$ 304.5	\$ 268.0	\$ 40.6	\$ 33.3	\$ 23.0	\$ 22.2	\$ 14.1	\$ 11.5	\$ 0.1	\$-	\$ 735.3	\$ 618.2
Liquidity payments	(158.4)	(144.1)	(261.4)	(228.4)	(9.1)	(5.4)	-	-	-	-	(0.1)	-	(429.0)	(377.9)
Routing and clearing	(5.9)	(5.0)	(10.5)	(10.0)	(4.3)	(4.9)	-	-	(0.2)	-	-	-	(20.9)	(19.9)
Net transaction and clearing														
fees	\$ 188.7	\$ 134.1	\$ 32.6	\$ 29.6	\$ 27.2	\$ 23.0	\$ 23.0	\$ 22.2	\$ 13.9	\$ 11.5	\$-	\$-	\$ 285.4	\$ 220.4

C^{*}boe

Non-GAAP Information

Reconciliation of Net Revenue by Revenue Caption -

For the Three Months Ended		and Iarkets	Data Access S		-	atives kets	Total			
June 30 (in millions)	2022	2021	2022	2021	2022	2021	2022	2021		
Transaction and clearing fees	\$ 359.2	\$ 312.7	\$ -	\$-	\$ 376.1	\$ 305.5	\$ 735.3	\$ 618.2		
Access and capacity fees	-	-	81.8	67.1	-	-	81.8	67.1		
Market data fees	19.3	23.9	41.0	30.9	8.5	8.0	68.8	62.8		
Regulatory fees	68.7	26.1	-	-	18.1	10.8	86.8	36.9		
Other revenue	11.3	10.0	1.1	5.0	0.7	0.8	13.1	15.8		
Total revenues	458.5	372.7	123.9	103.0	403.4	325.1	985.8	800.8		
Liquidity payments	270.0	233.8	-	-	159.0	144.1	429.0	377.9		
Routing and clearing fees	15.0	14.9	-	-	5.9	5.0	20.9	19.9		
Section 31 fees	68.2	25.9	-	-	11.4	2.9	79.6	28.8		
Royalty fees	4.1	3.3	2.3	2.0	25.8	18.3	32.2	23.6		
Total cost of revenues	357.3	277.9	2.3	2.0	202.1	170.3	561.7	450.2		
Revenues less cost of revenues (net revenue)	101.2	94.8	121.6	101.0	201.3	154.8	424.1	350.6		
Acquisition revenue less cost of revenues (inorganic net revenue)	(3.1)	-	(6.8)	-	-	-	(9.9)	-		
Organic net revenue	98.1	94.8	114.8	101.0	201.3	154.8	414.2	350.6		

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	(8.2)		(7.7)		(8.5)		(7.4)		(31.8)		(8.7)		(143.2
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	-		-		-		-		-		-		-
\$	365.5	\$	350.6	\$	369.5	\$	390.5	\$1	1,476.1	\$	418.1	\$	424.1
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	(10.4)		• •		• •		. ,		. ,		• •		
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(1) This amount includes professional fees and outside services and impairment charges related to the company's acquisitions.

(2) This amount represents the investment establishment costs related to the company's investment in 7RIDGE Investments 3 LP, which acquired Trading Technologies, Inc.

(3) This amount represents the gain on the Company's investment in Eris Digital Holdings LLC ("ErisX") prior to the full acquisition of ErisX.

(4) This amount represents the forgiveness of a PPP ("Paycheck Protection Program") loan previously held by ErisX.

(5) This amount represents the amortization of acquired intangible assets related to the company's acquisitions.

(6) This amount represents the impairment of ErisX goodwill.

(7) In 3Q21 this amount represents the impairment of investment related to the write down of the company's investment in CurveGlobal. In 2Q22 this amount represents the impairment of investment related to the Company's minority investment in American Financial Exchance, LLC.

(8) This amount represents the change in contingent consideration related to the adjustment recorded to MATCHNow's contingent consideration.

(9) This amount represents the tax reserves related to Section 199 matters.

(10) The company sponsors deferred compensation plans held in a trust. The expenses or income related to the deferred compensation plans are included in "Compensation and benefits" (\$1.9 million and \$1.1 million in expense for the three months ended June 30, 2022 and 2021, respectively, and are directly offset by deferred compensation income, expenses and dividends included within "Other income, net" (\$1.9 million and \$1.1 million in income, expenses and dividends in the three months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expenses and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expense and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expenses and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expenses and dividends in the six months ended June 30, 2022 and 2021, respectively, and \$2.5 million and \$1.4 million in income, expenses and dividends in the six months ended

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Non-GAAP Information

EBITDA Reconciliations

EBITDA (earnings before interest, income taxes, depreciation and amortization) and Adjusted EBITDA are widely used non-GAAP financial measures of operating performance. EBITDA margin represents EBITDA divided by revenues less cost of revenues (net revenue). It is presented as supplemental information that the company believes is useful to investors to evaluate its results because it excludes certain items that are not directly related to the company's core operating performance. EBITDA is calculated by adding back to net income interest expense, income tax expense, depreciation and amortization. Adjusted EBITDA is calculated by adding back to EBITDA acquisition-related expenses, gain on investment, loan forgiveness, investment establishment costs, goodwill impairment, and impairment of investment. EBITDA and Adjusted EBITDA should not be considered as substitutes either for net income, as an indicator of the company's operating performance, or for cash flow, as a measure of the company's liquidity. In addition, because EBITDA and Adjusted EBITDA may not be calculated identically by all companies, the presentation here may not be comparable to other similarly titled measures of other companies. Adjusted EBITDA margin represents Adjusted EBITDA divided by net revenue.

Reconciliation of Net Income Allocated to Comm	on S	stockho	bld	ers to E	EBI	TDA an	d	Adjuste	d I	EBI	TDA	
(in millions, except per share amounts)		2Q21		3Q21		4Q21		2021		1	Q22	2Q22
Net income allocated to common stockholders	\$	105.2	\$	120.0	\$	165.3	\$	527.3		\$	109.2	\$ (184.5)
Interest expense		12.3		11.7		11.1		47.4			10.8	14.6
Income tax provision		73.7		53.4		44.3		227.1			115.3	(72.3)
Depreciation and amortization		40.6		42.8		42.0		167.4			40.9	 40.2
EBITDA	\$	231.8	\$	227.9	\$	262.7	\$	969.2		\$	276.2	\$ (202.0)
EBITDA Margin		66.1%		61.7%		67.3%		65.7%			66.1%	-47.6%
Non-GAAP adjustments not included in above line items												
Acquisition-related expenses		1.8		6.7		3.7		15.6			2.0	14.3
Change in contingent consideration		-		-		(2.7)		(2.7)			-	-
Gain on investment												(7.5)
Loan forgiveness												(1.3)
Goodwill impairment												460.1
Investment establishment costs											3.0	-
Impairment of investment		-		5.0		-		5.0			-	10.6
Adjusted EBITDA	\$	233.6	\$	239.6	\$	263.7	\$	987.1		\$	281.2	\$ 274.2
Adjusted EBITDA Margin		66.6%		64.8%		67.5%		66.9%			67.3%	 64.7%
	-								. –			

Reconciliation of Net Income Allocated to Common Stockholders to EBITDA and Adjusted EBITDA

Non-GAAP Information

Adjusted Debt to EBITDA - Trailing Twelve Months¹ (in millions) 3Q21 4021 1022 2022 LTM Net income allocated to common stockholders \$ 120.0 \$ 165.3 \$ 109.2 \$ (184.5) \$ 210.0 Interest expense, net 11.7 11.1 10.8 14.6 48.2 Income tax provision 53.4 44.3 115.3 (72.3) 140.7 Depreciation and amortization 42.8 42.0 40.9 40.2 165.9 EBITDA \$ 227.9 \$ 262.7 \$ 276.2 \$ (202.0) \$ 564.8 Non-GAAP adjustments not included in above line items: 6.7 2.0 Acquisition-related expenses 3.7 14.3 26.7 (7.5) (7.5) Gain on investment Loan forgiveness (1.3) (1.3) (2.7) (2.7) Change in contingent consideration -Goowill impairment 460.1 460.1 Investment establishment costs 3.0 3.0 10.6 15.6 Impairment of investment 5.0 Adjusted EBITDA \$ 239.6 \$ 263.7 \$ 281.2 \$ 274.2 \$ 1,058.7 \$ 1,975.0 Debt at end of period Debt to EBITDA 1.9x

¹A full reconciliation of our non-GAAP to our GAAP results are available in this section.

Adjusted Cash

Adjusted cash is a non-GAAP measure and represents cash and cash equivalents plus financial investments minus deferred compensation plan assets and cash collected for Section 31 fees, which will need to be remitted in the near term. We have presented adjusted cash because we consider it an important supplemental measure of our liquidity and believe that it is frequently used by analysts, investors and other interested parties in the evaluation of companies.

Adjusted Cash (in millions)	As of 6/30/21	As of 9/30/21		s of 31/21	As of /31/22	As of /30/22
Cash and cash equivalents	\$ 450.9	\$ 392.4	\$ 3	341.9	\$ 659.4	\$ 373.3
Financial investments	118.7	26.7		37.1	48.7	68.5
Less deferred compensation plan assets	(25.6)	(26.2)		(28.0)	(27.4)	(25.5)
Less cash collected for Section 31 fees	(101.4)	-		(25.9)	 (20.7)	(67.2)
Adjusted Cash	\$ 442.6	\$ 392.9	\$ 3	325.1	\$ 660.0	\$ 349.1

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