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."

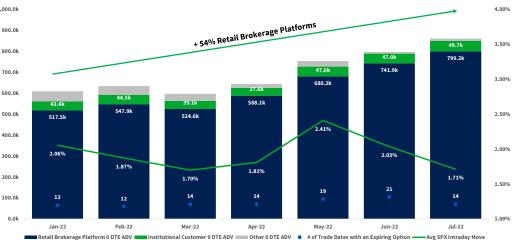
Global Derivatives: Extending the Market Potential

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

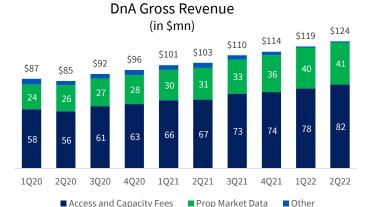
Providing a cohesive, low-cost global data offering

- 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

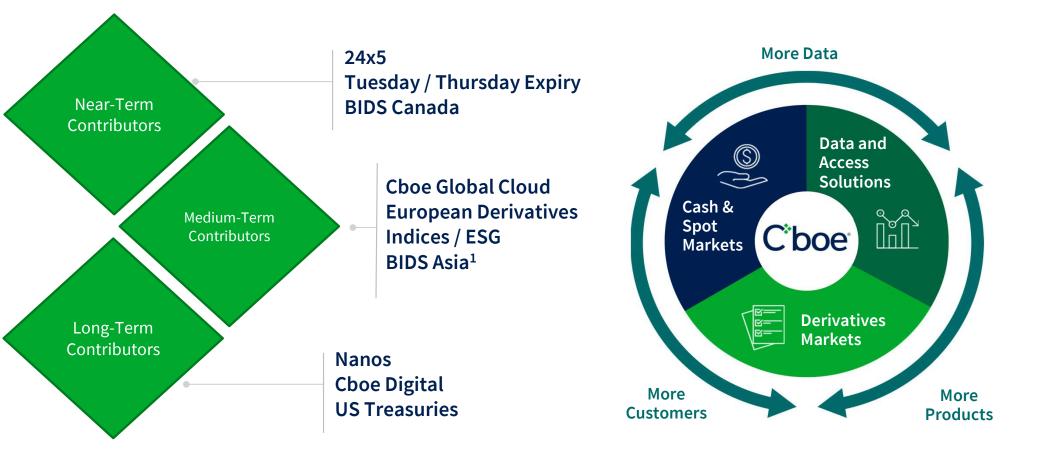
Uniform Data & Access

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."

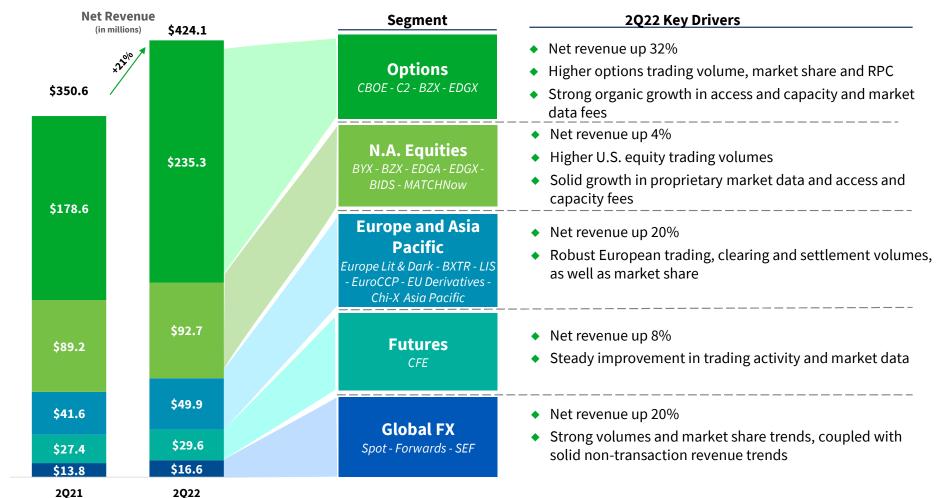
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2021-2022 Digital Asset Ecosystem Timeline



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



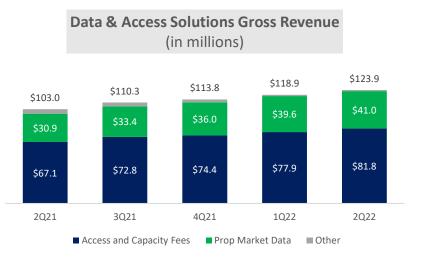
¹ The Digital segment is not further discussed as results were not material given its establishment during the second quarter of 2022 as a result of the ErisX acquisition on May 2, 2022, outside of the goodwill impairment charge recorded in the second quarter of 2022.

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

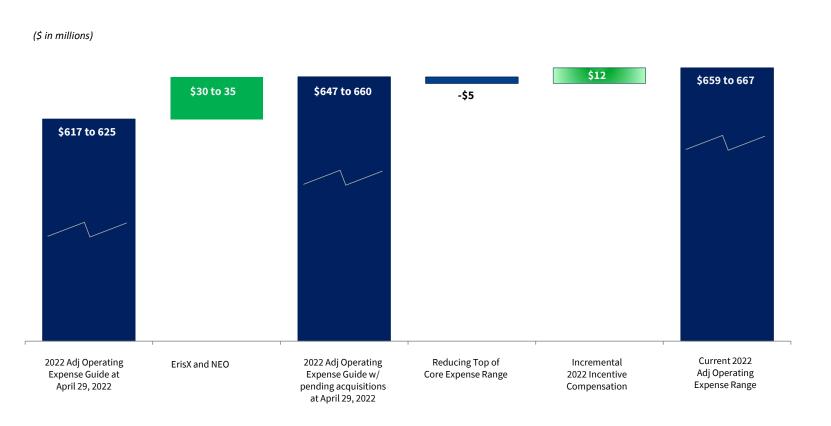
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- 2Q22 expense increase primarily driven by addition of Cboe Asia Pacific, ErisX and NEO
- \$19 million increase in compensation-related expenses
- \$4 million increase in travel and promotional fees
- Excluding acquisitions, adjusted operating expenses¹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

C^{*}boe^{*}

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

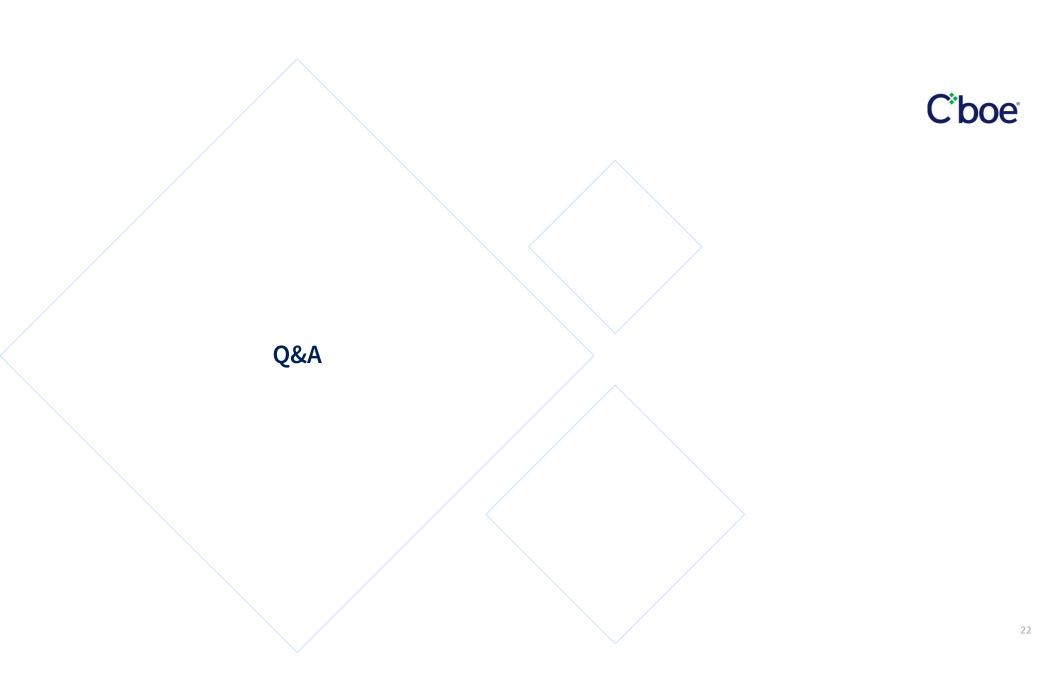
Integrate across ecosystem to increase efficiency and better serve customers

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

Grow by accessing untapped addressable markets

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- 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).

Cboe

C^{*}boe^{*}

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)

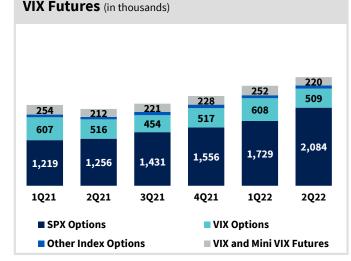
| Adjusted Operating Expenses Bridge for 20 | 021 to | 2022 | | |
|---|--------|------|---------|-----------|
| (\$ in millions) | | | | |
| 2021 adjusted operating expenses ¹ | \$ | 531 | *Guidan | ice Range |
| 2021 Acquisitions | | | 22 | 22 |
| Core | | | 31 | 31 |
| Revenue Investments | | | 23 | 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

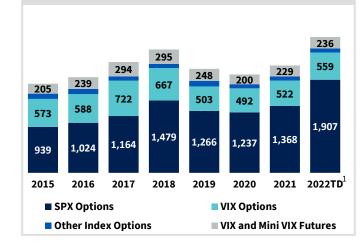
Index customers at Cboe typically use SPX and VIX options and futures interchangeably or in tandem, depending on market conditions

- 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 | | |

| 1 | 1Q21 | | 2Q21 | 3 | 3021 | | 1021 | | 2021 | | 1022 | | |
|----|--|--|--|---|--|---|---|---|---|---|---|--|--|
| | | | | | | | | | | | IQZZ | | 2Q22 |
| | | | | | | | | | | _ | | | |
| Ś | 136.8 | Ś | 105.2 | Ś | 120.0 | Ś | 165.3 | \$ | 527.3 | Ś | 109.2 | Ś | (184.5 |
| | | - | | - | | Ŷ | | Ŷ | | Ŷ | | Ŷ | 14.3 |
| | - | | - | | - | | - | | - | | 3.0 | | |
| | | | | | | | | | | | | | (7.5 |
| | | | | | | | | | | | | | (1.3 |
| | 32.9 | | 30.5 | | 31.8 | | 31.4 | | 126.6 | | 30.6 | | 30.1 |
| | - | | | | | | | | | | | | 460.1 |
| | - | | - | | 5.0 | | - | | 5.0 | | - | | 10.6 |
| | - | | - | | - | | (2.7) | | (2.7) | | - | | - |
| | 36.3 | | 32.3 | | 43.5 | | 32.4 | | 144.5 | | 35.6 | | 506.3 |
| | (8.2) | | (7.7) | | (8.5) | | (7.4) | | (31.8) | | (8.7) | | (143.2 |
| | | | - | | - | | (5.4) | | (5.4) | | | | - |
| | - | | 17.7 | | - | | | | | | _ | | - |
| | | | | | - | | (3.1) | | 14.0 | | 48 5 | | _ |
| | (0.1) | | (0.1) | | (0.1) | | (0.1) | | (0.4) | | | | (1.3 |
| Ś | | Ś | | Ś | | Ś | | Ś | | Ś | | Ś | |
| Ŧ | | - | | - | | - | | - | | 7 | | - | |
| | | | | | | | | | | | | | |
| Ş | | Ş | | Ş | | Ş | | Ş | | Ş | | Ş | (1.74 |
| ¢ | | ć | | <i>c</i> | | ~ | | <i>c</i> | | ¢ | | ć | 3.41 1.67 |
| Ş | 1.53 | Ş | 1.38 | Ş | 1.45 | Ş | 1.70 | Ş | 6.05 | Ş | 1.73 | Ş | 1.67 |
| | | | | | | | | | | | | | |
| \$ | 365.5 | \$ | 350.6 | \$ | 369.5 | \$ | 390.5 | \$1 | L,476.1 | \$ | 418.1 | \$ | 424.1 |
| | - | | - | | - | | - | | - | | - | | - |
| \$ | 365.5 | \$ | 350.6 | \$ | 369.5 | \$ | 390.5 | \$1 | 1,476.1 | \$ | 418.1 | \$ | 424.1 |
| Ś | 160.9 | Ś | 160.6 | Ś | 178.8 | Ś | 169.9 | Ś | 670.2 | Ś | 178.4 | Ś | 661.5 |
| | | | | Ŧ | | - | | - | | | | | 504.5 |
| Ś | | Ś | | Ś | | Ś | | Ś | | Ś | | Ś | 157.0 |
| | | | | | | | | | | | | | (13.7 |
| | (10.4) | | • • | | • • | | . , | | . , | | • • | | |
| \$ | 106.2 | \$ | 111.3 | \$ | 127.7 | \$ | 126.8 | \$ | 472.0 | \$ | 139.4 | \$ | 143.3 |
| Ś | 204.6 | Ś | 190.0 | Ś | 190.7 | Ś | 220.6 | Ś | 805.9 | Ś | 239.7 | Ś | (237.4 |
| | | | | Ŧ | | - | | - | | | | - | 504.5 |
| Ś | | Ś | | Ś | | Ś | | Ś | | Ś | | Ś | 267.1 |
| - | | | | - | | - | | | | | | - | 63.0% |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1056.0 |
| Ş | | Ş | | Ş | | Ş | | Ş | | Ş | | Ş | (256.8 |
| ^ | | ^ | | ¢ | | ¢. | | ¢ | | ~ | | ^ | 506.3 |
| Ş | 229.2 | Ş | 211.5 | Ş | 217.3 | Ş | 242.6 | Ş | 900.6 | Ş | 260.5 | Ş | 249.5 |
| \$ | 55.7 | \$ | 73.7 | \$ | 53.4 | \$ | 44.3 | \$ | | \$ | 115.3 | \$ | (72.3 |
| | | | | | | | | | | | | | 143.2 |
| | 8.2 | | (10.0) | | 8.5 | | 15.9 | | 22.6 | | (39.8) | | 143.2 |
| \$ | 8.2 63.9 | \$ | (10.0) 63.7 | \$ | 8.5 61.9 28.5% | \$ | 15.9 60.2 | \$ | 22.6 249.7 | \$ | (39.8) 75.5 29.0% | \$ | 70.9 |
| | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 36.3 (8.2) (0.1) \$ 164.8 \$ 1.27 0.26 \$ 1.53 \$ 365.5 \$ 365.5 \$ 160.9 (36.3) \$ 124.6 (18.4) \$ 106.2 \$ 204.6 36.3 \$ 204.9 \$ 5.9 \$ 240.9 \$ 240.9 \$ 240.9 \$ 240.9 \$ 240.9 \$ 240.9 \$ 240.9 | 32.9 36.3 (8.2) (0.1) 5 164.8 \$ 1.27 \$ 1.27 \$ 0.26 \$ 5 1.53 \$ 3 65.5 \$ 3 65.5 \$ 3 65.5 \$ 1 60.9 \$ 3 106.2 \$ 1 104.4 \$ 1 104.6 \$ 1 104.6 \$ 3 104.6 \$ 1 104.6 \$ 3 104.6 \$ 1 104.6 \$ 3 104.6 \$ | 32.9 30.5 36.3 32.3 (8.2) (7.7) 17.7 (0.1) 184.8 \$ 147.4 153 \$ 147.4 1.53 \$ 147.4 36.55 \$ 350.6 365.5 \$ 350.6 365.5 \$ 350.6 365.5 \$ 128.3 144.8 \$ 128.3 164.8 \$ 128.3 365.5 \$ 350.6 162.4 \$ 128.3 164.4 \$ 128.3 164.5 \$ 128.3 164.6 \$ 128.3 164.6 \$ 128.3 184.4 \$ 179.0 204.6 \$ 190.0 363.7 \$ 222.3 65.9% \$ 222.3 65.4% \$ 222.3 5 32.3 222.2 \$ 222.3 | 32.9 30.5 36.3 32.3 (8.2) (7.7) 17.7 (0.1) 117.7 (0.1) 164.8 \$ 147.4 \$ 164.8 \$ 147.4 \$ 15.3 \$ 0.40 \$ 1.53 \$ 350.6 \$ \$ 365.5 \$ 350.6 \$ \$ 365.5 \$ 350.6 \$ \$ 160.9 \$ 160.6 \$ \$ 160.4 \$ 160.4 \$ \$ 160.4 \$ 160.6 \$ \$ 160.4 \$ 160.4 \$ \$ 160.4 \$ 160.2 \$ \$ 106.2 \$ 11.3 \$ \$ 106.2 \$ 11.3 \$ \$ 204.6 \$ 190.0 \$ \$ 204.5 \$ 32.3 | 32.9 30.5 31.8 - - 5.0 36.3 32.3 43.5 (8.2) (7.7) (8.5) - 17.7 - (0.1) (0.1) (0.1) 5 164.8 \$ 147.4 \$ 154.9 \$ 1.27 \$ 0.98 \$ 1.12 0.26 \$ 0.98 \$ 1.45 \$ 1.53 \$ 1.38 \$ 1.45 \$ 365.5 \$ 350.6 \$ 369.5 \$ 365.5 \$ 350.6 \$ 369.5 \$ 160.8 \$ 178.8 (38.5) \$ 164.6 \$ 120.6 \$ 120.7 \$ 106.2 \$ 11.3 \$ 127.7 \$ 204.6 \$ 190.0 \$ 38.5 \$ 106.2 \$ 11.3 \$ 127.7 < | 32.9 30.5 31.8 36.3 32.3 43.5 36.3 32.3 43.5 (8.2) (7.7) (8.5) 17.7 1 1.5 10.1 (0.1) (0.1) 117.7 1 1.5 117.7 1 1.5 115.3 1.47.4 5 154.9 115.3 1.38 5 1.45 5 125 1.53 5 1.45 5 365.5 \$ 350.6 \$ 369.5 \$ 365.5 \$ 350.6 \$ 369.5 \$ 365.5 \$ 350.6 \$ 369.5 \$ 365.5 \$ 350.6 \$ 369.5 \$ 363.5 128.3 \$ 140.3 \$ (18.4) \$ 127.7 \$ \$ 38.5 \$ 106.2 \$ 11.1.3 \$ 120.7 \$ | 32.9 30.5 31.8 31.4 - - 5.0 - 36.3 32.3 43.5 32.4 (8.2) (7.7) (8.5) (7.4) - 17.7 - (3.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) 5 164.8 5 147.4 5 154.9 5 181.7 5 1.53 5 0.40 0.33 0.16 5 1.54 5 1.55 5 350.6 5 369.5 5 390.5 5 365.5 5 350.6 5 369.5 5 390.5 5 160.9 5 160.6 5 178.8 5 169.9 (36.3) 1(17.0) 5 126.8 5 10.7 5 26.6 106.2 5 111.3 5 127.7 5 126.8 24. | 32.9 30.5 31.8 31.4 - - 5.0 - 36.3 32.3 43.5 32.4 (8.2) (7.7) (8.5) (7.4) - 17.7 - (3.1) - 17.7 - (3.1) - 17.7 - (3.1) - 17.7 0.10 (0.1) - 164.8 5 147.4 \$ 5 154.7 \$ 154.9 \$ 181.7 \$ 164.8 \$ 147.4 \$ 154.9 \$ 181.7 \$ 155.5 \$ 350.6 \$ 369.5 \$ 390.5 \$ \$ 365.5 \$ 350.6 \$ 369.5 \$ 390.5 \$ \$ 160.9 \$ 160.6 \$ 369.5 \$ 390.5 \$ \$ 160.6 \$ 178.8 \$ 169.9 | 32.9 30.5 31.8 31.4 126.6 - - 5.0 - 5.0 36.3 32.3 43.5 32.4 144.5 (8.2) (7.7) (8.5) (7.4) (31.8) - 17.7 - (3.1) 14.6 - 17.7 - (3.1) 14.6 - 0.1) (0.1) (0.1) (0.4) \$ 164.8 \$ 147.4 \$ 154.9 \$ 181.7 \$ 648.8 \$ 1.27 \$ 0.98 \$ 1.12 \$ 1.54 \$ 492 0.26 0.40 0.33 0.16 1.13 \$ 1.55 \$ 648.8 \$ 1.53 \$ 3.85 1.45 \$ 1.476.1 \$ 365.5 \$ 350.6 \$ 390.5 \$1.476.1 \$ 160.6 \$ 178.8 \$ 169.9 \$ <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>32.9 30.5 31.8 31.4 126.6 30.6 32.9 30.5 31.8 31.4 126.6 30.6 36.3 32.3 43.5 32.4 144.5 35.6 36.3 32.3 43.5 32.4 144.5 35.6 (8.2) (7.7) (8.5) (7.4) (31.8) (8.7) - - (5.4) (5.4) - - - 17.7 - (3.1) 14.6 - - (0.1) (0.1) (0.1) (0.1) (0.4) (0.3) - - (15.3) 147.4 5 144.5 5 1.70 5 648.8 5 184.3 5 152.5 5 369.5 5 390.5 \$1.476.1 5 418.1 5 160.6 5 369.5 \$190.5 \$1.476.1 5 \$181.7 5 160.6 5 169.5 \$107.2 \$1.73<td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 32.9 30.5 31.8 31.4 126.6 30.6 32.9 30.5 31.8 31.4 126.6 30.6 36.3 32.3 43.5 32.4 144.5 35.6 36.3 32.3 43.5 32.4 144.5 35.6 (8.2) (7.7) (8.5) (7.4) (31.8) (8.7) - - (5.4) (5.4) - - - 17.7 - (3.1) 14.6 - - (0.1) (0.1) (0.1) (0.1) (0.4) (0.3) - - (15.3) 147.4 5 144.5 5 1.70 5 648.8 5 184.3 5 152.5 5 369.5 5 390.5 \$1.476.1 5 418.1 5 160.6 5 369.5 \$190.5 \$1.476.1 5 \$181.7 5 160.6 5 169.5 \$107.2 \$1.73 <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |

(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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