



THIRD QUARTER 2024 EARNINGS PRESENTATION

November 1, 2024

**THE
EXCHANGE
FOR THE
WORLD
STAGESM**

Agenda

◆ Business Review

Fredric Tomczyk

Chief Executive Officer

Dave Howson

Executive Vice President, Global President

◆ Financial Review

Jill Griebenow

Executive Vice President, Chief Financial Officer

◆ Questions & Answers

Fredric Tomczyk

Dave Howson

Jill Griebenow

Chris Isaacson

Executive Vice President, Chief Operating Officer

Disclosures

Forward-Looking Statements

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 vulnerabilities and breaches; 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; global expansion of operations; factors that impact the quality and integrity of our and other applicable indices; our ability to manage our growth and strategic acquisitions or alliances effectively; 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, counterparty investment, 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; 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 impacts of pandemics; the accuracy of our estimates and expectations; litigation risks and other liabilities; risks relating to digital assets, including winding down the Cboe Digital spot crypto market and transitioning digital asset futures contracts to CFE, operating a digital assets futures clearinghouse, cybercrime, changes in digital asset regulation, and fluctuations in digital 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, 2023 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.

Industry and Market Data

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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Non-GAAP Measures

This presentation includes certain Non-GAAP measures as defined under SEC rules, including, among others, organic net revenue, adjusted EPS, adjusted EBITDA, adjusted operating expenses, and adjusted cash. Additional information, reconciliations, and definitions are included in the appendix to this presentation.

Key Performance Indicators

Managements focuses on a variety of key indicators to plan, measure and evaluate our business and financial performance. These performance indicators include, among others, average daily volume (ADV), average daily notional value (ADNV), trades cleared, net settlement volume, as well as Non-GAAP measures of adjusted EPS and adjusted EBITDA. Please refer to Item 2. Management's Discussion and Analysis of Financial Condition for additional information on operational and financial metrics and measures.

QUARTERLY RECAP AND OUTLOOK

- Fredric Tomczyk, CEO
- Dave Howson, Global President

3Q24: Record Net Revenue in Third Quarter*

Net revenues grew 11% Y/Y, a product of continued strong transaction and non-transaction growth

13% increase in Derivatives Markets organic net revenue¹

- Total options ADV up 2%, driven by a 13% increase in index options ADV
- Total options rate per contract (RPC) up 10%

12% increase in Cash and Spot Markets organic net revenue¹

- Europe and Asia Pacific net revenue increased 22% y/y
- North American Equities net revenue rose 3% y/y

6% increase in Data and Access Solutions organic net revenue¹

- Continued expansion in transaction capabilities drove solid access and capacity fees
- Comprehensive suite of data solutions across geographies and asset classes translated to solid revenue results



*Unless otherwise noted, all comparisons are third quarter 2024 compared to the same period in 2023.

¹See appendix for "Non-GAAP Information."

Sharpening the Strategic Focus

Progress Made

Revised approach to M&A

Focused on integrating and improving prior acquired businesses

Moderated expense growth and stabilized margins

2024 YTD¹ adjusted operating expense² growth of 6% vs. 2023 YTD³ of 17%

Shifted capital allocation strategy

Returned \$387 million⁴ to shareholders throughout 2024 YTD¹

Reallocated resources to core competencies

Wound down Digital spot trading business

Forward Framework

Investing in the **continued growth of our core business** in Global Derivatives

Enhancing **recurring revenue opportunities** through Data and Access Solutions

Harnessing our **global network** to expand product reach & access

Capitalizing on the demand for access to the **U.S. capital markets**

Leveraging our **superior technology** to drive innovation

Disciplined allocation of capital and resources

¹2024 YTD through September 30, 2024.

²See appendix for "Non-GAAP Information."

³2023 YTD through September 30, 2023.

⁴Includes dividends and share repurchases.

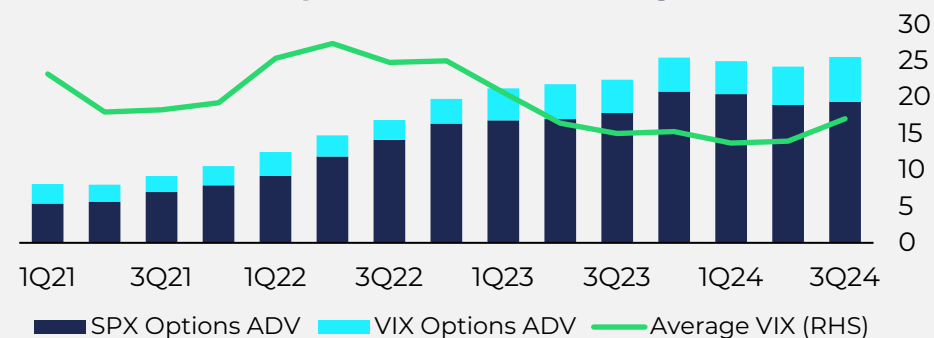
Derivatives Continued to Execute, Well Positioned for Future

Uptick in Volatility Drove Increased Utilization of VIX Product Suite

Derivatives net revenue up 13% y/y in 3Q24

- ✓ SPX Options ADV increased 7% y/y
- ✓ VIX Options ADV increased 33% y/y
- ✓ VIX Futures ADV increased 20% y/y
- ✓ XSP Options ADV increased 18% y/y

SPX and VIX Options ADV vs. Average VIX Level



Near-Term Cyclical Tailwinds



Macroeconomic and geopolitical environment



Investor positioning in dynamic markets

Long-Term Secular Trends



Globalization of markets, demand, and access



Wider retail adoption of options

New Products: Launched **Variance Futures** on September 23rd and **Options on VIX Futures** on October 14th

Unlocking Global Growth Potential

North America

- ◆ North American Equities net transaction and clearing fees¹ were up 10% as compared to 3Q23
- ◆ Canadian Equities ADV rose to 135.9mn in 3Q24 from 127.5mn in 3Q23

Europe

- ◆ Cboe Europe remained Europe's leading market share during continuous trading hours
- ◆ Cboe Clear Europe market share² grew to 37.2% in 3Q24 from 33.8% in 3Q23

Asia Pacific

- ◆ Grew Cboe Australia Equities market share to 20.8% in 3Q24 from 17.9% in 3Q23
- ◆ Grew Cboe Japan Equities market share to 5.4% in 3Q24 from 3.3% in 3Q23

Market Data Expansion

Related Revenue Opportunities

- ◆ 40%+ of new data sales occurred outside of the U.S.
- ◆ Sustained growth in DnA net revenues³ in all major regions
- ◆ 79% of Cboe Global Cloud incremental revenue from outside the Americas

Securities Financing Transactions⁴

- ◆ Nine committed participants expected for the SFT clearing service, including banks, clearing firms, asset managers and custodians
- ◆ Tighter capital requirements with Basel III endgame and Basel IV frameworks coming into focus
- ◆ SFT has potential to meaningfully reduce risk weighted assets for customers

¹See appendix for "Net Transaction and Clearing Fees by Segment."

²European market share - European market share represents Cboe Clear Europe's client volume cleared divided by the total volume of publicly reported European venues.

³Growth in USD.

⁴Subject to regulatory approvals.

Note: Except as specified otherwise, all commentary as of 3Q24.

Data and Access Solutions: Driving Durable Growth

Many Avenues of Potential Growth

Data

Comprehensive suite of real-time, historical, and reference data across asset classes

- ❖ Leverages Cboe's market-leading position in multiple asset classes around the globe
- ❖ Comprehensive streaming data services, including Cboe Global Indices Feed
- ❖ Cboe Global Cloud extends access to Europe and Asia Pacific
- ❖ Near-term focus: Enhanced feeds for options markets

Access

Global access across asset classes through a robust technology platform

- ❖ Proven and reliable infrastructure
- ❖ Rollout of enhanced options access architecture in US Options (1 of 4 markets thus far)
- ❖ Near-term focus: Expanding dedicated cores offering globally and enhancing options access architecture

Analytics & Execution

Proprietary analytics, platforms, and risk-management solutions

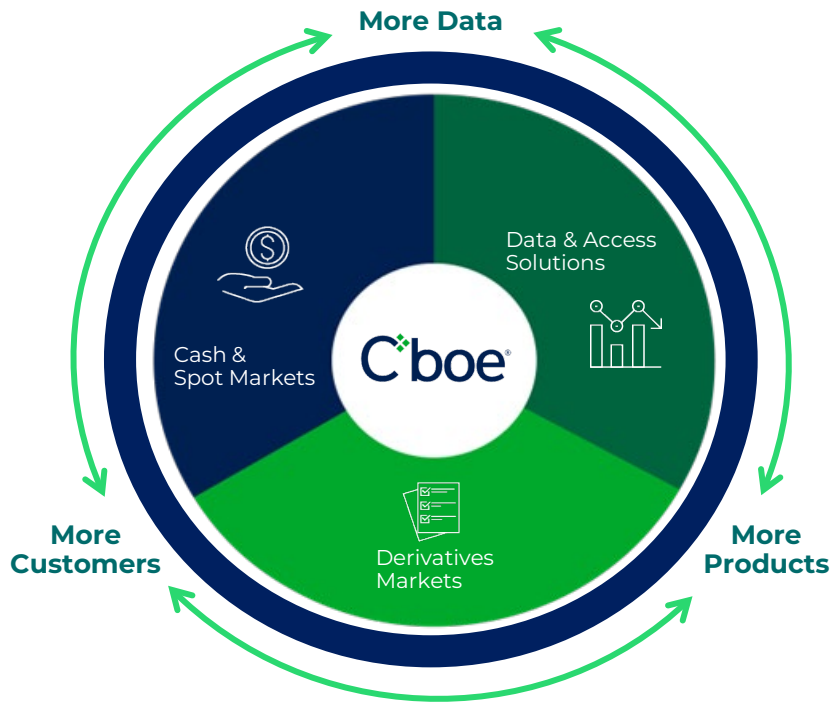
- ❖ Robust suite of risk and volatility analytics
- ❖ Cutting-edge order-flow analysis and execution management system
- ❖ Near-term focus: Risk and market analytics services, time stamping service, enhanced theoretical pricing service for flex options

Shifting Technology Resources from Integration to DnA Enhancements

Customer focused priorities include:

- ➡ Access layer architecture for our equities and options markets
- ➡ Comprehensive market data and distribution solutions
- ➡ Greater analytical insights leveraging proprietary data

Executing on Growth Priorities



Progress

Global Derivatives

- ◆ Derivatives delivered 13% y/y organic net revenue growth¹ in 3Q24
- ◆ ODTE SPX trading made up 48% of 3Q24 SPX activity and volume was up 7% y/y in 3Q24
- ◆ XSP options volume increased 18% y/y
- ◆ CEDX achieved a record quarter of lots traded in 3Q24, with an 184% increase vs. 3Q23
- ◆ Expanded volatility toolkit with launch of Variance Futures in September and Options on VIX Futures in October

Global Data and Access Solutions

- ◆ Delivered 6% organic net revenue growth¹ in 3Q24
- ◆ DnA organic net revenue growth target for 2024³ is lower end of 7-10% guidance range

Opportunity

- ◆ Targeting >150mn retail accounts with smaller & more flexible products²
- ◆ U.S. market equity and index options market is ~17x larger than the Pan-European market
- ◆ Expand expirations & trading hours for prop products toolkit
- ◆ Proprietary Benchmarks
- ◆ Global trading requires 24x7 dependable access to markets and accurate data
- ◆ \$42bn annual global spend on financial market data in 2023⁴
- ◆ \$6bn annual global spend in indices in 2023⁴

Drivers

- Rise of Retail
- Greater Global Access
- Multi-Asset Trading
- Demand for Data
- Shorter Duration, Tailored Products
- Macro Uncertainty

¹See appendix for "Non-GAAP Information."

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

³See slide "2024 Guidance" for disclosures on growth targets; all medium-term financial targets as of November 16, 2021, all 2024 guidance as of November 1, 2024.

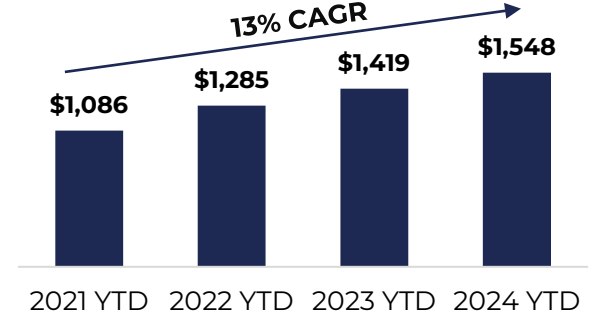
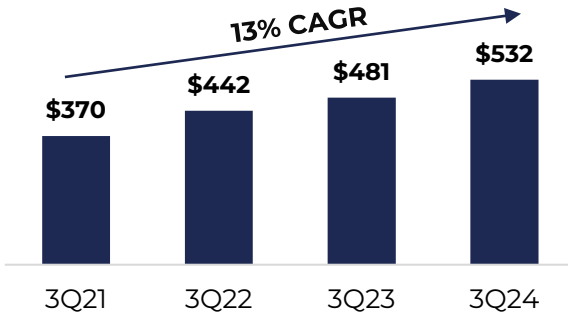
⁴Based on Burton-Taylor research reports.

FINANCIAL OVERVIEW AND GUIDANCE

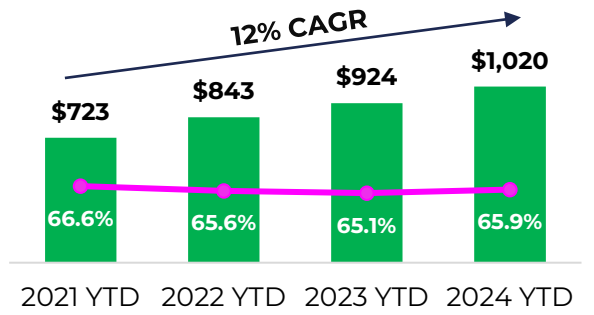
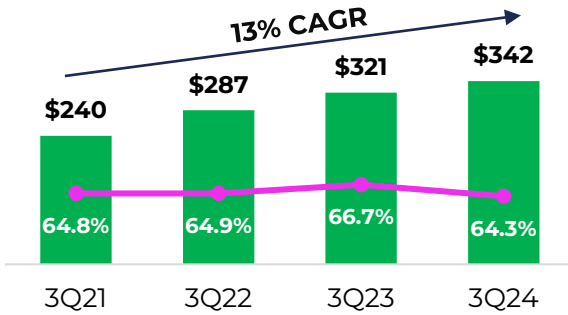
➤ Jill Griebenow, EVP, CFO

3Q24 Financial Summary

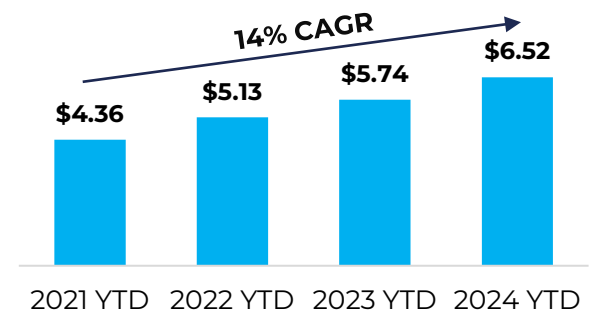
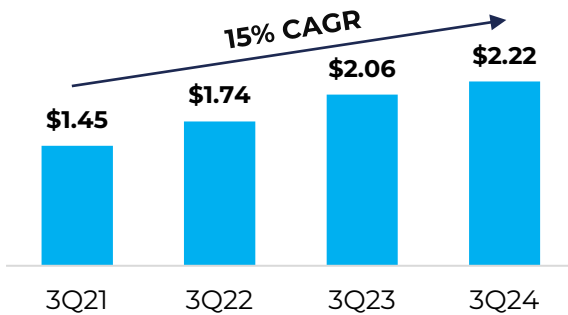
\$532mn
 Net Revenue
 +11% Y/Y



\$342mn
 Adjusted EBITDA¹
 +7% Y/Y
 (Adjusted EBITDA margin¹ of 64.3%)



\$2.22
 Adjusted Diluted EPS¹
 +8% Y/Y



¹See appendix for "Non-GAAP Information."

3Q24 Net Revenue by Segment¹ and Key Drivers

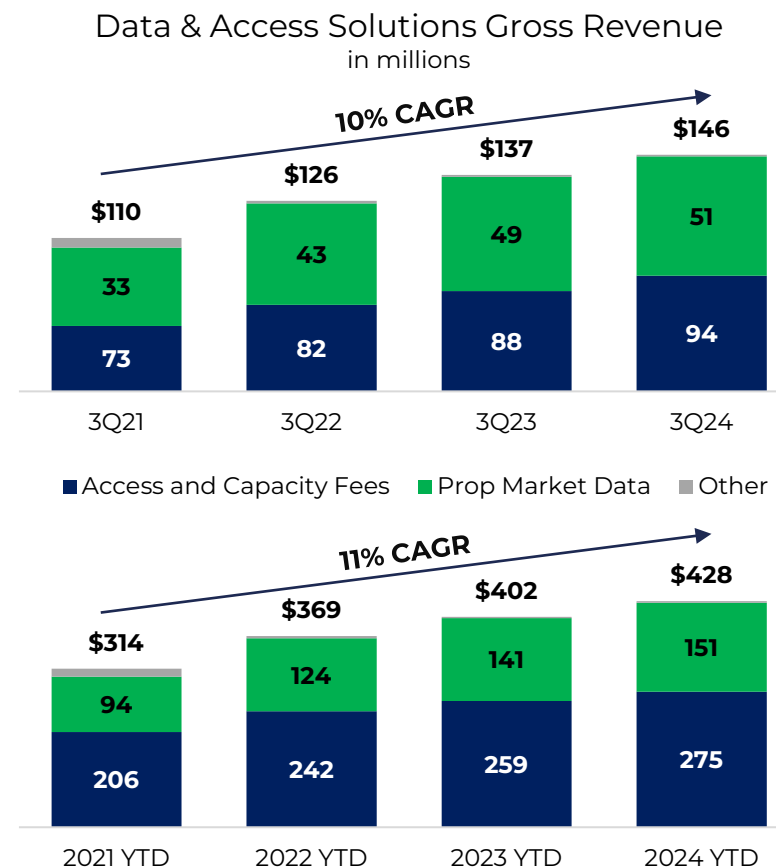


¹The Digital and Corporate segments are not further discussed as results were not material during the third quarter of 2024.

Grew 3Q24 Data and Access Solutions Net Revenue 6% YoY Organically¹

Expect 2024 organic net revenue growth rate² target for Data and Access Solutions business to finish at lower end of 7-10% guidance range³

- ❖ 3Q24 Data and Access Solutions net revenue of \$142.5 million up 6% YoY organically¹
- ❖ 2024 outlook for Data and Access Solutions organic net revenue² growth to finish at lower end of 7-10% guidance range³
- ❖ Anticipate new opportunities across the data and access solutions ecosystem will help drive future growth
 - ◆ Continued demand for global access, leveraging Cboe Global Cloud
 - ◆ Enhancing the exchange access layer with expansion of dedicated cores
 - ◆ Greater analytical insights leveraging proprietary data



¹See appendix for "Non-GAAP Information."

²See slide "2024 Guidance" for disclosures on growth targets.

³2024 Guidance as of November 1, 2024.

3Q24 Adjusted Operating Expenses¹ Up 13%, Driven by Compensation and Benefits & Travel and Promotional

Adjusted Operating Expenses ¹ (in millions)	3Q24	3Q23	\$ Chg	% Chg
Compensation and benefits	\$118.3	\$96.1	\$22.2	23%
Depreciation and amortization ¹	11.1	10.6	0.5	5%
Technology support services	25.5	25.0	0.5	2%
Professional fees and outside services	21.9	24.4	(2.5)	-10%
Travel and promotional	12.6	8.9	3.7	42%
Facilities costs	5.9	6.2	(0.3)	-5%
Other expenses	8.7	9.1	(0.4)	-4%
Total¹	\$204.0	\$180.3	\$23.7	13%

- ❖ 3Q24 expense increase driven by higher compensation and benefits & travel and promotional
 - ❖ \$22 million increase in compensation-related expenses
 - ❖ \$4 million increase in travel and promotional expenses

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

2024 Guidance

2024 Full-Year Guidance ¹ (\$ in millions)	2024 Guidance as of November 1, 2024	2024 Guidance as of August 2, 2024	2024 Guidance as of May 3, 2024	2024 Guidance as of February 2, 2024	2023 Actual
Data and Access Solutions³ organic net revenue growth rate	lower end of 7 to 10%	lower end of 7 to 10%	7 to 10%	7 to 10%	7% ²
Total organic net revenue growth rate	7 to 9%	6 to 8%	higher end of 5 to 7%	5 to 7%	10% ²
Adjusted operating expenses⁴ <i>implied growth rate</i>	\$798 to 808 6 to 8%	\$795 to 805 6 to 7%	\$795 to 805 6 to 7%	\$798 to 808 6 to 8%	\$750.5 ² 15%
Earnings on investments	\$33 to 37	\$33 to 37	\$33 to 37	--	--
Other income (expense), net	\$7 to 9	\$4 to 6	\$4 to 6	--	--
Non-operating (expenses) income benefit from minority investments	\$40 to 46	\$37 to 43	\$37 to 43	\$37 to 43	\$40
Depreciation and amortization (excluding amortization of acquired intangible assets)	\$43 to 47	\$43 to 47	\$43 to 47	\$43 to 47	\$41
Effective tax rate on adjusted earnings	28.5 to 30.5%	28.5 to 30.5%	28.5 to 30.5%	28.5 to 30.5%	28.0% ²
Capital expenditures	\$57 to 63	\$51 to 57	\$51 to 57	\$51 to 57	\$45

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 from 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 range of 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.

²See appendix for "Non-GAAP Information."

³Represents Access and Capacity Fees, Proprietary Market Data and revenue generated from licensing and indices related revenue reported in "Other Revenue."

⁴Adjusted operating expenses exclude acquisition-related expenses and amortization of acquired intangible assets. The amortization of acquired intangible assets was \$117 million for 2023 and is now expected to be \$89 million for 2024. See appendix for "Non-GAAP Information."

Efficient Allocation of Capital to Create Long-Term Shareholder Value

Debt Outstanding (\$ in millions)	Dec. 31, 2023	Mar. 31, 2024	Jun. 30, 2024	Sep. 30, 2024
3.650% Senior Notes (10Y; Due 2027)	\$650	\$650	\$650	\$650
1.625% Senior Notes (10Y; Due 2030)	500	500	500	500
3.000% Senior Notes (10Y; Due 2032)	300	300	300	300
Revolving Credit Agreement	-	-	-	-
Term Loan Facility	-	-	-	-
Cboe Clear Europe Credit Facility	-	-	-	-
Total Debt (Gross)	\$1,450	\$1,450	\$1,450	\$1,450
Debt to Adjusted EBITDA TTM ¹	1.2x	1.1x	1.1x	1.1x
Adjusted Cash & Financial Investments ¹	\$534	\$537	\$595	\$764
Share Repurchases	\$5.8	\$89.3	\$90.4	\$24.6
Dividends Paid	58.5	58.5	58.2	66.3
Total Capital Returned to Shareholders	\$64.3	\$147.8	\$148.6	\$90.9
Dividends Per Share	\$0.55	\$0.55	\$0.55	\$0.63

Preserving balance sheet flexibility remains a priority

- ❖ Capital allocation priorities include:
 - ◆ Consistent dividend payments and growth
 - ◆ Investing in the growth of our business
 - ◆ Opportunistic share repurchases
 - ◆ Inorganic opportunities to facilitate growth strategy
- ❖ Returned \$66.3 million in capital through dividends and \$24.6 million in share repurchases in 3Q24
- ❖ As of September 30, 2024, the Company had \$679.8 million of availability remaining under its existing share repurchase authorizations

¹See appendix for "Non-GAAP Information."

Positioned to Innovate, Integrate and Grow to Create Value



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



Integrate across ecosystem to increase efficiency and better serve customers

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



Grow by accessing untapped addressable markets

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

Q&A

Appendix

Options 3Q24 Net Revenue Up 10%, Reflecting Higher Net Transaction and Clearing Fees¹

Options Selected Revenue Data (\$ in millions)	3Q24	3Q23	Chg
Net Revenue	\$320.9	\$290.8	10%
Net transaction and clearing fees¹	\$284.2	\$248.3	14%
Index options	241.3	210.9	14%
Multi-listed options	42.9	37.4	15%
Access and capacity fees	\$42.3	\$40.4	5%
Market data fees	\$30.5	\$31.4	-3%
Market data – proprietary	23.2	22.1	5%
Market data – industry	7.3	9.3	-22%
Options Key Operating Stats	3Q24	3Q23	Chg
Total market share	30.5%	33.6%	-3.1pts
Index options	98.7%	98.8%	-0.1pts
Multi-listed options	24.0%	27.4%	-3.4pts
Total ADV (in thousands)	14,882	14,592	2%
Index options	4,227	3,743	13%
Multi-listed options	10,655	10,848	-2%
Total RPC	\$0.298	\$0.270	10%
Index options	\$0.892	\$0.894	0%
Multi-listed options	\$0.063	\$0.055	15%

- ◆ Higher net transaction and clearing fees¹ from index options given stronger volumes
- ◆ Total RPC was up 10%
- ◆ Access and capacity fees were up 5%

¹See appendix for "Net Transaction and Clearing Fees by Segment."

North American (N.A.) Equities 3Q24 Net Revenue Up 3%, Driven by Higher Net Transaction and Clearing Fees¹

N.A. Equities Selected Revenue Data (\$ in millions)	3Q24	3Q23	Chg
Net Revenue	\$98.0	\$95.1	3%
Net transaction and clearing fees¹	\$31.9	\$29.0	10%
Market data fees	\$30.2	\$33.4	-10%
Market data - proprietary	14.8	14.7	1%
Market data - SIP ²	15.5	18.7	-17%
Access and capacity fees	\$33.2	\$29.6	12%
N.A. Equities Key Operating Stats	3Q24	3Q23	Chg
U.S. Equities Exchange (shares in billions)			
Total Market Share	10.9%	12.7%	-1.8pts
Market ADV	11.5	10.4	10%
ADV (matched shares)	1.3	1.3	-5%
Net capture (per 100 touched shares)	\$0.024	\$0.022	6%
U.S. Equities Off-Exchange (shares in millions)			
Off-Exchange ATS Block Market Share % ³	17.7%	19.9%	-2.2pts
ADV (matched shares)	79.3	73.8	7%
Net capture (per 100 touched shares)	\$0.135	\$0.125	9%
Canadian Equities (shares in millions)			
Total Market Share Percent	14.6%	15.2%	-0.6pts
ADV (matched shares, in millions)	135.9	127.5	7%
Net capture (per 10,000 touched shares, in CAD)	CAD 4.240	CAD 3.976	7%

- ◆ Net transaction and clearing fees¹ were up 10%
- ◆ Access and capacity fees were up 12%

¹See appendix for "Net Transaction and Clearing Fees by Segment."

²Includes SIP audit recoveries of \$0.2mn in 3Q24 and \$1.8mn in 3Q23.

³Represents market share for 3Q24 through August 2024.

Europe and APAC 3Q24 Net Revenue Up 22%, Reflecting Transaction and Non-Transaction Revenue Growth

Europe and APAC Selected Revenue Data (\$ in millions)	3Q24	3Q23	Chg
Net Revenue	\$55.6	\$45.6	22%
Net transaction and clearing fees¹	\$27.5	\$20.9	32%
Net transaction fees	19.9	14.4	38%
Net clearing fees	7.6	6.5	17%
Market data fees	\$10.0	\$9.2	9%
Access and capacity fees	\$10.3	\$9.3	11%
Other²	\$7.8	\$6.2	26%
Europe Key Operating Stats	3Q24	3Q23	Chg
European Equities:			
Total market share	23.8%	23.2%	0.6pts
Market ADNV (in billions)	€ 38.9	€ 34.3	13%
Net capture (per matched notional value, in bps)	0.257	0.232	11%
Cboe Clear Europe			
Trades cleared (in millions)	306.9	255.2	20%
Fee per trade cleared	€ 0.008	€ 0.010	-15%
Net settlement volume (in millions)	2.9	2.5	19%
Net fee per settlement	€ 1.026	€ 0.927	11%
European equities market share cleared	37.2%	33.8%	3.4pts
APAC Key Operating Stats	3Q24	3Q23	Chg
Australian Equities:			
Total market share	20.8%	17.9%	2.9pts
ADNV (AUD in billions)	\$0.8	\$0.7	28%
Net capture (per matched notional value)	0.156	0.155	0%
Japanese Equities:			
Total market share	5.4%	3.3%	2.1pts
ADNV (JYP in billions)	¥323.3	¥148.7	117%
Net capture (per matched notional value)	0.220	0.257	-14%

- ◆ Market data, access fees and other were up a combined 14%
- ◆ Cboe Australia grew market share by 2.9% and Cboe Japan grew market share by 2.1%

¹See appendix for "Net Transaction and Clearing Fees by Segment."

²Primarily includes trade reporting and Cboe Clear Europe net interest income.

Futures 3Q24 Net Revenue Up 17%, Driven by Y/Y Increase in ADV

Futures Selected Revenue Data (\$ in millions)	3Q24	3Q23	Chg
Net Revenue	\$38.0	\$32.4	17%
Net transaction and clearing fees¹	\$31.0	\$25.4	22%
Access and capacity fees	\$5.7	\$5.7	-
Market data fees	\$2.4	\$2.2	9%
Futures Key Operating Stats (in thousands, except RPC)	3Q24	3Q23	Chg
Total ADV	273.7	230.0	19%
Total RPC	\$1.767	\$1.753	1%

- ◆ 19% Y/Y increase in ADV drove an increase in net transaction and clearing fees¹
- ◆ Market data fees were up 9%

¹See appendix for "Net Transaction and Clearing Fees by Segment."

Global FX 3Q24 Net Revenue Up 9%, Driven by Higher Net Transaction and Clearing Fees¹

FX Selected Revenue Data (\$ in millions)	3Q24	3Q23	Chg
Net Revenue	\$20.0	\$18.3	9%
Net transaction and clearing fees¹	\$16.9	\$15.3	10%
Non-transaction revenue	\$3.1	\$3.0	3%
FX Key Operating Stats	3Q24	3Q23	Chg
Market share ²	19.1%	20.2%	-1.1pts
Average Daily Notional Value (\$ in billions)	\$48.3	\$44.4	9%
Net capture (per one million dollars traded)	\$2.66	\$2.64	1%

- ◆ Net transaction and clearing fees¹ were up 10%
- ◆ ADNV was up 9%

¹See appendix for "Net Transaction and Clearing Fees by Segment."

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

3Q24 Financial Overview

Adjusted Financial Results (\$ in millions, except per share)	3Q24	3Q23	Chg
Net Revenue ¹	\$532.0	\$480.5	11%
Adjusted Operating Expenses ²	\$204.0	\$180.3	13%
Adjusted Operating Income ²	\$328.0	\$300.2	9%
<i>Adjusted Operating Margin²</i>	61.7%	62.5%	-0.8pts
Adjusted Net Income Allocated to Common Stockholders ²	\$232.9	\$218.9	6%
Adjusted Diluted EPS ²	\$2.22	\$2.06	8%
Adjusted EBITDA ²	\$342.0	\$320.5	7%
<i>Adjusted EBITDA Margin²</i>	64.3%	66.7%	-2.4pts

¹Net revenue represents revenue less cost of revenues.

²See appendix for "Non-GAAP Information."

Net Revenue Detail

Net Revenue ¹ (in millions)	3Q24	3Q23	% Chg
Cash and Spot Markets	\$103.3	\$92.1	12%
Data and Access Solutions	\$142.5	\$134.7	6%
Derivatives Markets	\$286.2	\$253.7	13%
Total	\$532.0	\$480.5	11%

- ◆ Derivatives Markets driven by solid transaction and clearing fees
- ◆ Cash and Spot Markets driven by solid transaction and clearing fees
- ◆ Data and Access Solutions benefited from continued international growth

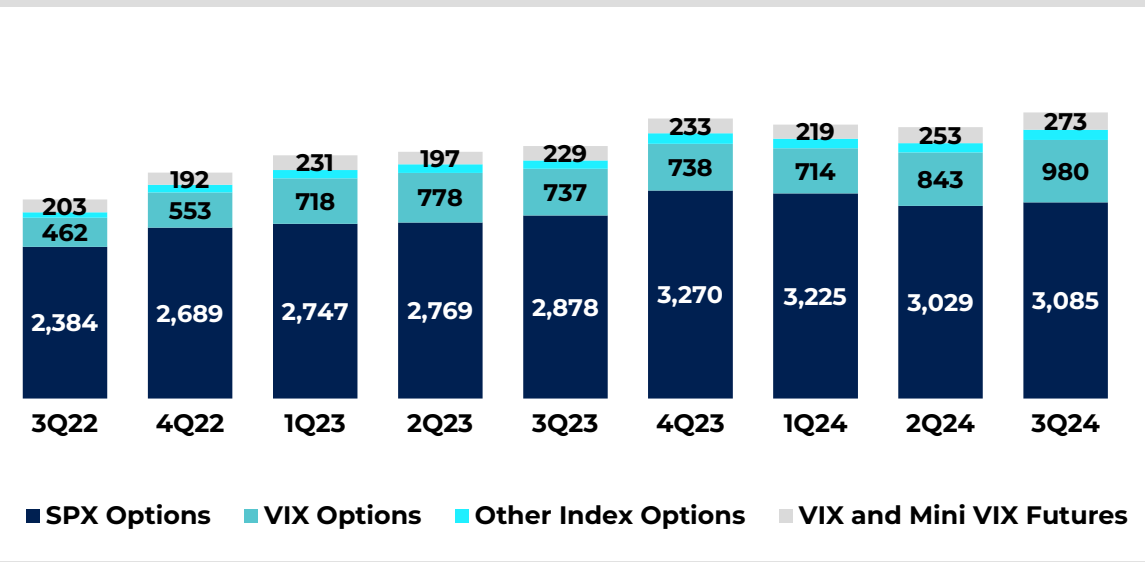
¹Net revenue represents revenue less cost of revenues. See appendix for "Net Revenue by Revenue Caption."

Focused on Growing the Proprietary Index Suite

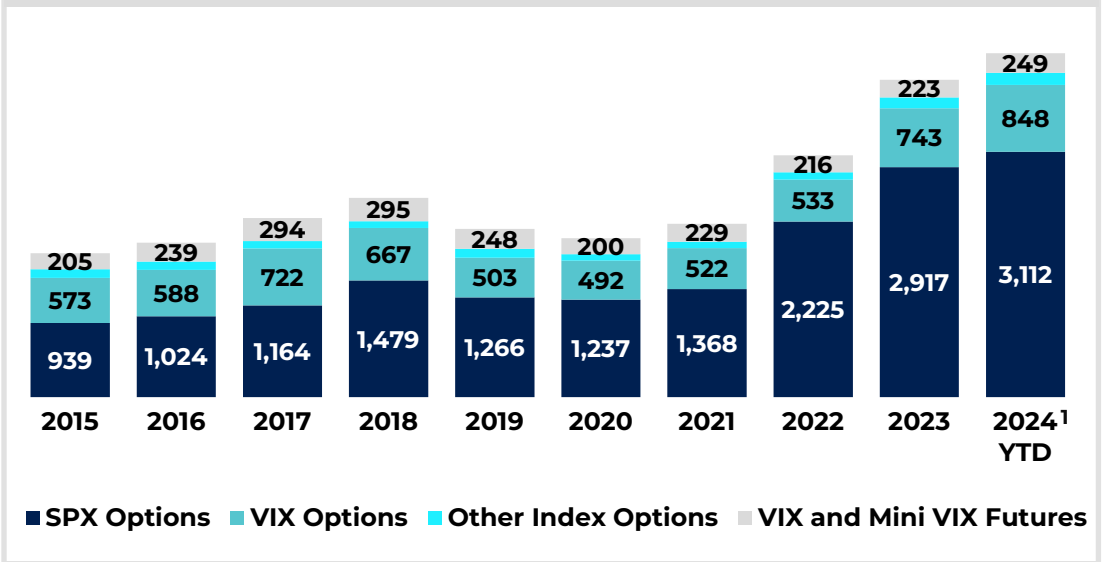
Index customers at Cboe typically use the toolkit of Cboe proprietary products interchangeably or in tandem, depending on market conditions

- ◆ 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, XSP options in December 2022
 - ◆ Launched Tuesday-expiring SPX Weeklys April 2022, Thursday expirations in May 2022; launched Tuesday / Thursday Russell 2000 Index Options in January 2024
 - ◆ Launched options on IBHY and IBIG futures in July 2023
 - ◆ Launched Variance Futures on September 23rd and Options on VIX Futures on October 14th

Quarterly ADV for Index Options and VIX Futures
(in thousands)



Annual ADV for Index Options and VIX Futures
(in thousands)

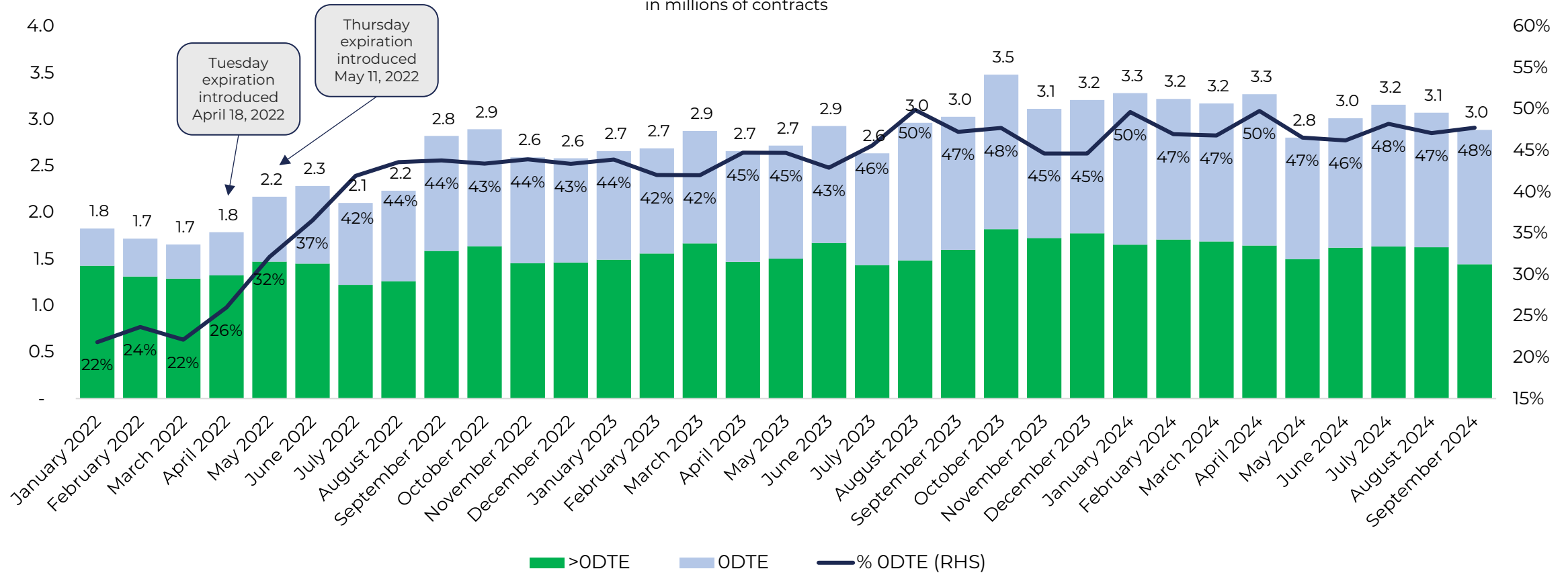


¹2024 YTD through September 2024.

ODTE Adding Stability to SPX Volumes

SPX ADV by Expiration

in millions of contracts



Net Revenue by Revenue Caption

For the Three Months Ended September 30 (in millions)	Cash and Spot Markets		Data and Access Solutions		Derivatives Markets		Total	
	2024	2023	2024	2023	2024	2023	2024	2023
Transaction and clearing fees	\$ 288.9	\$ 268.6	\$ -	\$ -	\$ 437.0	\$ 410.0	\$ 725.9	\$ 678.6
Access and capacity fees	-	-	94.2	87.7	-	-	94.2	87.7
Market data fees	15.5	18.7	50.7	48.6	7.3	9.3	73.5	76.6
Regulatory fees	107.9	30.3	-	-	31.1	16.7	139.0	47.0
Other revenue	21.8	17.5	0.7	0.7	0.6	0.7	23.1	18.9
Total revenues	434.1	335.1	145.6	137.0	476.0	436.7	1,055.7	908.8
Liquidity payments	198.9	192.3	-	-	118.7	131.4	317.6	323.7
Routing and clearing fees	12.7	12.0	-	-	4.7	5.8	17.4	17.8
Section 31 fees	106.4	29.1	-	-	23.1	7.0	129.5	36.1
Royalty fees and other cost of revenues	12.8	9.6	3.1	2.3	43.3	38.8	59.2	50.7
Total cost of revenues	330.8	243.0	3.1	2.3	189.8	183.0	523.7	428.3
Revenues less cost of revenues (net revenue)	103.3	92.1	142.5	134.7	286.2	253.7	532.0	480.5

Net Transaction and Clearing Fees by Segment

For the Three Months Ended Dec 31 (in millions)	Options		N.A. Equities		Europe and Asia Pacific		Futures		Global FX		Digital		Total	
	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022
Transaction and clearing fees	\$ 419.0	\$ 392.7	\$ 240.0	\$ 255.4	\$ 35.3	\$ 35.3	\$ 25.4	\$ 20.5	\$ 15.8	\$ 14.4	\$ (1.0)	\$ 0.1	\$ 734.5	\$ 718.4
Liquidity payments	(135.3)	(157.7)	(209.5)	(214.4)	(8.0)	(8.8)	-	-	-	-	(0.1)	(0.5)	(352.9)	(381.4)
Routing and clearing	(4.3)	(7.3)	(7.6)	(8.2)	(4.3)	(4.2)	-	-	(0.3)	(0.1)	-	-	(16.5)	(19.8)
Net transaction and clearing fees	\$ 279.4	\$ 227.7	\$ 22.9	\$ 32.8	\$ 23.0	\$ 22.3	\$ 25.4	\$ 20.5	\$ 15.5	\$ 14.3	\$ (1.1)	\$ (0.4)	\$ 365.1	\$ 317.2

For the Three Months Ended March 31 (in millions)	Options		N.A. Equities		Europe and Asia Pacific		Futures		Global FX		Digital		Total	
	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023
Transaction and clearing fees	\$ 389.8	\$ 395.8	\$ 251.7	\$ 255.0	\$ 38.8	\$ 42.1	\$ 23.5	\$ 24.8	\$ 15.5	\$ 15.8	\$ (0.8)	\$ (1.0)	\$ 718.5	\$ 732.5
Liquidity payments	(115.3)	(144.2)	(215.2)	(215.9)	(8.1)	(11.3)	-	-	-	-	(0.2)	(0.4)	(338.8)	(371.8)
Routing and clearing	(4.2)	(9.7)	(7.1)	(9.4)	(4.4)	(4.6)	-	-	(0.3)	(0.3)	-	-	(16.0)	(24.0)
Net transaction and clearing fees	\$ 270.3	\$ 241.9	\$ 29.4	\$ 29.7	\$ 26.3	\$ 26.2	\$ 23.5	\$ 24.8	\$ 15.2	\$ 15.5	\$ (1.0)	\$ (1.4)	\$ 363.7	\$ 336.7

For the Three Months Ended June 30 (in millions)	Options		N.A. Equities		Europe and Asia Pacific		Futures		Global FX		Digital		Total	
	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023
Transaction and clearing fees	\$ 385.9	\$ 384.3	\$ 227.2	\$ 229.4	\$ 38.9	\$ 35.6	\$ 28.1	\$ 22.4	\$ 17.1	\$ 15.0	\$ 0.4	\$ (1.0)	\$ 697.6	\$ 685.7
Liquidity payments	(114.2)	(135.8)	(184.4)	(193.1)	(7.9)	(8.1)	-	-	-	-	(0.5)	(0.4)	(307.0)	(337.4)
Routing and clearing	(4.0)	(8.1)	(7.5)	(8.0)	(4.6)	(4.4)	-	-	(0.5)	(0.3)	-	-	(16.6)	(20.8)
Net transaction and clearing fees	\$ 267.7	\$ 240.4	\$ 35.3	\$ 28.3	\$ 26.4	\$ 23.1	\$ 28.1	\$ 22.4	\$ 16.6	\$ 14.7	\$ (0.1)	\$ (1.4)	\$ 374.0	\$ 327.5

For the Three Months Ended September 30 (in millions)	Options		N.A. Equities		Europe and Asia Pacific		Futures		Global FX		Digital		Total	
	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023
Transaction and clearing fees	\$ 405.3	\$ 384.6	\$ 231.0	\$ 221.9	\$ 40.5	\$ 32.6	\$ 31.7	\$ 25.4	\$ 17.4	\$ 15.6	\$ -	\$ (1.5)	\$ 725.9	\$ 678.6
Liquidity payments	(116.4)	(130.5)	(191.9)	(185.6)	(8.0)	(7.3)	(0.7)	-	-	-	(0.6)	(0.3)	(317.6)	(323.7)
Routing and clearing	(4.7)	(5.8)	(7.2)	(7.3)	(5.0)	(4.4)	-	-	(0.5)	(0.3)	-	-	(17.4)	(17.8)
Net transaction and clearing fees	\$ 284.2	\$ 248.3	\$ 31.9	\$ 29.0	\$ 27.5	\$ 20.9	\$ 31.0	\$ 25.4	\$ 16.9	\$ 15.3	\$ (0.6)	\$ (1.8)	\$ 390.9	\$ 337.1

Non-GAAP Information

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 press release include adjusted revenue less cost of revenue, adjusted operating expenses, adjusted operating income, adjusted operating margin, adjusted net income allocated to common stockholders, adjusted diluted earnings per share, effective tax rate on adjusted earnings, adjusted cash, net revenues in constant currency, EBITDA, EBITDA margin, adjusted EBITDA and adjusted EBITDA margin.

Management believes that the non-GAAP financial measures presented in this presentation 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.

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 acquisitions, 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, impairment charges, 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.

Non-GAAP Information

Reconciliation of GAAP Net Revenues to Net Revenues in Constant Currency

Net Revenue (in millions)	Three Months Ended, September 30, 2024	Three Months Ended, September 30, 2023	Nine Months Ended, September 30, 2024	Nine Months Ended, September 30, 2023
Europe and Asia Pacific net revenues	\$55.6	\$45.6	\$164.0	\$142.2
Constant currency adjustment	(0.7)	(2.4)	(0.5)	1.5
Europe and Asia Pacific net revenues in constant currency¹	\$54.9	\$43.2	\$163.5	\$143.7

¹Net revenues in constant currency is calculated by converting the current period GAAP net revenues in local currency using the foreign currency exchange rates that were in effect during the previous comparable period.

Reconciliation of GAAP Net Revenues to Organic Net Revenues by Revenue Caption

For the Three Months Ended September 30 (in millions)	Cash and Spot Markets		Data and Access Solutions		Derivatives Markets		Total	
	2024	2023	2024	2023	2024	2023	2024	2023
Revenues less cost of revenues (net revenue)	103.3	92.1	142.5	134.7	286.2	253.7	532.0	480.5
Acquisition revenue less cost of revenues (inorganic net revenue)	-	-	-	-	-	-	-	-
Organic net revenue	103.3	92.1	142.5	134.7	286.2	253.7	532.0	480.5

Non-GAAP Information

Non-GAAP Information

(in millions, except per share amounts)

Reconciliation of Net Income Allocated to Common Stockholders to Non-GAAP

	1Q23	2Q23	3Q23	4Q23	2023	1Q24	2Q24	3Q24
Net income allocated to common stockholders	\$ 172.6	\$ 167.0	\$ 207.1	\$ 210.8	\$ 757.5	\$ 208.3	\$ 139.7	\$ 217.4
Acquisition-related costs (1)	6.4	0.7	0.8	(0.5)	7.4	0.6	0.6	-
Amortization of acquired intangible assets (2)	30.9	29.3	28.2	28.2	116.6	26.2	21.2	20.7
Income from investment (3)	-	(2.1)	-	-	(2.1)	-	-	-
Gain on Cboe Digital non-recourse notes and warrants wind down (4)	-	-	-	-	-	(0.4)	(1.0)	-
Cboe Digital syndication wind down (5)	-	-	-	-	-	-	(1.0)	-
Change in contingent consideration (6)	-	-	-	(14.4)	(14.4)	-	3.0	(0.9)
Impairment of intangible assets (7)	-	-	-	-	-	-	81.0	-
Loss (gain) on investment (8)	-	-	-	1.8	1.8	-	16.0	1.0
Costs related to Cboe Digital wind down (9)	-	-	-	-	-	-	0.8	0.8
Gain on sale of property held for sale (10)	-	-	-	-	-	-	(1.0)	-

Total Non-GAAP adjustments - pretax

Income tax expense related to the items above	(9.5)	(6.8)	(6.9)	(7.4)	(30.7)	(6.9)	(32.7)	(4.7)
Tax reserves (11)	1.5	0.7	(10.2)	1.9	(6.0)	-	(4.0)	(1.6)
Deferred tax re-measurements	-	-	-	1.1	1.1	-	-	-
Valuation allowances (12)	-	-	-	(2.7)	(2.7)	-	4.1	0.3
Net income allocated to participating securities - effect on reconciling items	(0.1)	(0.1)	(0.1)	-	(0.4)	(0.1)	(0.5)	(0.1)

Adjusted net income allocated to common stockholders

	\$ 164.5	\$ 160.8	\$ 189.9	\$ 191.1	\$ 706.2	\$ 227.7	\$ 226.2	\$ 232.9
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Reconciliation of Diluted EPS to Non-GAAP

Diluted earnings per common share	\$ 1.63	\$ 1.57	\$ 1.95	\$ 1.98	\$ 7.13	\$ 1.96	\$ 1.33	\$ 2.07
Per share impact of non-GAAP adjustments noted above	0.27	0.21	0.11	0.08	0.67	0.19	0.82	0.15
Adjusted diluted earnings per common share	\$ 1.90	\$ 1.78	\$ 2.06	\$ 2.06	\$ 7.80	\$ 2.15	\$ 2.15	\$ 2.22

Reconciliation of Operating Margin to Non-GAAP

Revenue less cost of revenue	\$ 471.4	\$ 467.1	\$ 480.5	\$ 499.0	\$ 1,918.0	\$ 502.1	\$ 513.8	\$ 532.0
Non-GAAP adjustments noted above	-	-	-	-	-	-	(1.0)	-
Adjusted revenue less cost of revenue	\$ 471.4	\$ 467.1	\$ 480.5	\$ 499.0	\$ 1,918.0	\$ 502.1	\$ 512.8	\$ 532.0

Operating expenses (13)

Non-GAAP expense adjustments noted above	\$ 223.5	\$ 223.3	\$ 209.3	\$ 205.0	\$ 860.1	\$ 219.7	\$ 303.7	\$ 224.6
Adjusted operating expenses	\$ 186.2	\$ 192.3	\$ 180.3	\$ 191.7	\$ 750.5	\$ 192.9	\$ 197.1	\$ 204.0

Non-GAAP expense adjustments to arrive at organic adjusted operating expenses

Organic adjusted operating expenses

Operating income	\$ 247.9	\$ 244.8	\$ 271.2	\$ 294.0	\$ 1,057.9	\$ 282.4	\$ 210.1	\$ 307.4
Non-GAAP expense adjustments noted above	37.3	30.0	29.0	13.3	109.6	26.8	105.6	20.6
Adjusted operating income	\$ 285.2	\$ 274.8	\$ 300.2	\$ 307.3	\$ 1,167.5	\$ 309.2	\$ 315.7	\$ 328.0
Adjusted operating margin (14)	60.5%	58.8%	62.5%	61.6%	60.9%	61.6%	61.6%	61.7%

Reconciliation of Income Tax Rate to Non-GAAP

Income before income taxes	\$ 248.2	\$ 241.8	\$ 270.1	\$ 287.5	\$ 1,047.6	\$ 292.1	\$ 203.0	\$ 309.0
Non-GAAP adjustments noted above	37.3	27.9	29.0	15.1	109.3	26.4	119.6	21.6
Adjusted income before income taxes	\$ 285.5	\$ 269.7	\$ 299.1	\$ 302.6	\$ 1,156.9	\$ 318.5	\$ 322.6	\$ 330.6
Income tax expense	\$ 74.8	\$ 74.0	\$ 61.9	\$ 75.5	\$ 286.2	\$ 82.6	\$ 62.6	\$ 90.5
Non-GAAP adjustments noted above	8.0	6.1	17.1	7.1	38.3	6.9	32.6	6.0
Adjusted income tax expense	\$ 82.8	\$ 80.1	\$ 79.0	\$ 82.6	\$ 324.5	\$ 89.5	\$ 95.2	\$ 96.5
Adjusted income tax rate	29.0%	29.7%	26.4%	27.3%	28.0%	28.1%	29.5%	29.2%

(1) This amount includes acquisition-related costs primarily from the Company's Cboe Digital, Cboe Canada, and Cboe Asia Pacific acquisitions, which is included in acquisition-related costs on the condensed consolidated statements of income.

(2) This amount represents the amortization of acquired intangible assets related to the Company's acquisitions, which is included in depreciation and amortization on the condensed consolidated statements of income.

(3) This amount represents the dividend from the Company's minority ownership of Vest Group Inc., which is included in other income (expense), net on the condensed consolidated statements of income. In 2024, the Company determined the dividend to be a recurring event and therefore has been excluded from the non-GAAP adjustments in 2024 and going forward.

(4) This amount represents the revaluation and the gain associated with the wind down of the Cboe Digital non-recourse notes and warrants, which is included in other income (expense), net on the condensed consolidated statements of income.

(5) This amount represents the contra-revenue that was reversed as a result of the Cboe Digital syndication wind down, which is included in transaction and clearing fees in the condensed consolidated statements of income.

(6) This amount represents the gains and losses related to contingent consideration liabilities achieved related to the acquisitions of Cboe Canada and Cboe Asia Pacific, which is included in other expenses on the condensed consolidated statements of income.

(7) This amount represents the impairment of intangible assets related to the Cboe Digital wind down, which is included in impairment of intangible assets on the condensed consolidated statements of income.

(8) This amount represents the impairment of investment related to the Company's minority investments in Globacap Technology Limited and StratiFi Technologies Inc., which are located in other income (expense), net on the condensed consolidated statements of income, as well as the gain on investment related to the Company's minority investment in Curve Global Limited, which is included in earnings on investments on the condensed consolidated statements of income.

(9) This amount represents certain wind down costs related to Cboe Digital, which are included in compensation and benefits on the condensed consolidated statements of income.

(10) This amount represents the gain on the sale of the Company's former headquarters, which is included in other income (expense), net on the condensed consolidated statements of income.

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

(12) This amount represents the valuation allowances related to the impairment of the Company's minority investments in StratiFi Technologies Inc. and Globacap Technology Limited.

(13) 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" (\$2.3 million and \$0.8 million in expense for the three months ended September 30, 2024 and 2023, respectively, and \$2.2 million and \$6.0 million in expense for the nine months ended September 30, 2024 and 2023, respectively), and are directly offset by deferred compensation income, expenses and dividends included within "Other income (expense), net" (\$2.3 million and \$0.8 million in income, expense and dividends in the three months ended September 30, 2024 and 2023, respectively, and \$2.2 million and \$6.0 million in income, expense and dividends in the nine months ended September 30, 2024 and 2023, respectively), on the condensed consolidated statements of income. The deferred compensation plans' expenses are not excluded from "adjusted operating expenses" and do not have an impact on "Income before income taxes."

(14) Adjusted operating margin represents adjusted operating income divided by adjusted revenue less cost of revenue.

Non-GAAP Information

Non-GAAP Information

(in millions, except per share amounts)	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	4Q22	2022
Reconciliation of Net Income Allocated to Common Stockholders to Non-GAAP										
Net income allocated to common stockholders	\$ 136.8	\$ 105.2	\$ 120.0	\$ 165.3	\$ 527.3	\$ 109.2	\$ (184.5)	\$ 149.6	\$ 159.0	\$ 234.2
Acquisition-related expenses (1)	3.4	1.8	6.7	3.7	15.6	2.0	14.3	1.6	2.0	19.9
Investment establishment costs (2)	-	-	-	-	-	3.0	-	-	-	3.0
Gain on investments (3)	-	-	-	-	-	-	(7.5)	-	-	(7.5)
Loan Forgiveness (4)	-	-	-	-	-	-	(1.3)	-	-	(1.3)
Amortization of acquired intangible assets (5)	32.9	30.5	31.8	31.4	126.6	30.6	30.1	30.4	33.2	124.3
Goodwill impairment (6)	-	-	-	-	-	-	460.1	0.8	-	460.9
Impairment of Investment (7)	-	-	5.0	-	5.0	-	10.6	-	-	10.6
Change in contingent consideration (8)	-	-	-	(2.7)	(2.7)	-	-	-	(5.2)	(5.2)
Total Non-GAAP adjustments - pretax	36.3	32.3	43.5	32.4	144.5	35.6	506.3	32.8	30.0	604.7
Income tax expense related to the items above	(8.2)	(7.7)	(8.5)	(7.4)	(31.8)	(8.7)	(143.2)	2.9	5.3	(143.7)
Release of tax reserves	-	-	-	(5.4)	(5.4)	-	-	-	-	-
Deferred tax remeasurement	-	17.7	-	(3.1)	14.6	-	-	-	(2.0)	(2.0)
Tax reserves (9)	-	-	-	-	-	48.5	-	-	-	48.5
Net income allocated to participating securities - effect on reconciling items	(0.1)	(0.1)	(0.1)	(0.1)	(0.4)	(0.3)	(1.3)	(0.1)	(0.1)	(1.8)
Adjusted net income allocated to common stockholders	\$ 164.8	\$ 147.4	\$ 154.9	\$ 181.7	\$ 648.8	\$ 184.3	\$ 177.3	\$ 185.2	\$ 192.2	\$ 739.8
Reconciliation of Diluted EPS to Non-GAAP										
Diluted earnings per common share	\$ 1.27	\$ 0.98	\$ 1.12	\$ 1.54	\$ 4.92	\$ 1.02	\$ (1.74)	\$ 1.41	\$ 1.49	\$ 2.19
Per share impact of non-GAAP adjustments noted above	0.26	0.40	0.33	0.16	1.13	0.71	3.41	0.33	0.31	4.74
Adjusted diluted earnings per common share	\$ 1.53	\$ 1.38	\$ 1.45	\$ 1.70	\$ 6.05	\$ 1.73	\$ 1.67	\$ 1.74	\$ 1.80	\$ 6.93
Reconciliation of Operating Margin to Non-GAAP										
Revenue less cost of revenue	\$ 365.5	\$ 350.6	\$ 369.5	\$ 390.5	\$ 1,476.1	\$ 418.1	\$ 424.1	\$ 442.4	\$ 457.1	\$ 1,741.7
Non-GAAP adjustments noted above	-	-	-	-	-	-	-	-	-	-
Adjusted revenue less cost of revenue	\$ 365.5	\$ 350.6	\$ 369.5	\$ 390.5	\$ 1,476.1	\$ 418.1	\$ 424.1	\$ 442.4	\$ 457.1	\$ 1,741.7
Operating expenses (10)	\$ 160.9	\$ 160.6	\$ 178.8	\$ 169.9	\$ 670.2	\$ 178.4	\$ 661.5	\$ 205.6	\$ 206.6	\$ 1,252.1
Non-GAAP expense adjustments noted above	(36.3)	(32.3)	(38.5)	(32.4)	(139.5)	(32.6)	504.5	32.8	30.0	599.9
Adjusted operating expenses	\$ 124.6	\$ 128.3	\$ 140.3	\$ 137.5	\$ 530.7	\$ 145.8	\$ 157.0	\$ 172.8	\$ 176.6	\$ 652.2
Non-GAAP expense adjustments to arrive at organic adjusted operating expenses	(18.4)	(17.0)	(12.6)	(10.7)	(58.7)	(6.4)	(13.7)	(7.6)	(10.8)	(38.5)
Organic adjusted operating expenses	\$ 106.2	\$ 111.3	\$ 127.7	\$ 126.8	\$ 472.0	\$ 139.4	\$ 143.3	\$ 165.2	\$ 165.8	\$ 613.7
Operating income	\$ 204.6	\$ 190.0	\$ 190.7	\$ 220.6	\$ 805.9	\$ 239.7	\$ (237.4)	\$ 236.8	\$ 250.5	\$ 489.6
Non-GAAP expense adjustments noted above	36.3	32.3	38.5	32.4	139.5	32.6	504.5	32.8	30.0	599.9
Adjusted operating income	\$ 240.9	\$ 222.3	\$ 229.2	\$ 253.0	\$ 945.4	\$ 272.3	\$ 267.1	\$ 269.6	\$ 280.5	\$ 1,089.5
Adjusted operating margin (11)	65.9%	63.4%	62.0%	64.8%	64.0%	65.1%	63.0%	60.9%	61.4%	62.6%
Reconciliation of Income Tax Rate to Non-GAAP										
Income before income taxes	\$ 192.9	\$ 179.2	\$ 173.8	\$ 210.2	\$ 756.1	\$ 224.9	\$ (256.8)	\$ 229.0	\$ 235.8	\$ 432.9
Non-GAAP adjustments noted above	36.3	32.3	43.5	32.4	144.5	35.6	506.3	32.8	30.0	604.7
Adjusted income before income taxes	\$ 229.2	\$ 211.5	\$ 217.3	\$ 242.6	\$ 900.6	\$ 260.5	\$ 249.5	\$ 261.8	\$ 265.8	\$ 1,037.6
Income tax expense	\$ 55.7	\$ 73.7	\$ 53.4	\$ 44.3	\$ 227.1	\$ 115.3	\$ (72.3)	\$ 78.8	\$ 76.1	\$ 197.9
Non-GAAP adjustments noted above	8.2	(10.0)	8.5	15.9	22.6	(39.8)	143.2	(2.9)	(3.3)	97.2
Adjusted income tax expense	\$ 63.9	\$ 63.7	\$ 61.9	\$ 60.2	\$ 249.7	\$ 75.5	\$ 70.9	\$ 75.9	\$ 72.8	\$ 295.1
Adjusted income tax rate	27.9%	30.1%	28.5%	24.8%	27.7%	29.0%	28.4%	29.0%	27.4%	28.4%

(1) This amount includes professional fees (which includes fees associated with the valuation of the Cboe Digital goodwill impairment) and outside services.

(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 Innovations Holdings, LLC in connection with the full acquisition of Cboe Digital (formerly ErisX).

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

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

(6) This amount represents the impairment of Cboe Digital goodwill.

(7) This amount represents the impairment of investment related to the Company's investments in American Financial Exchange, LLC in 2022 and Curve Global in 2021.

(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" (\$2.0 million and \$1.8 million in expense for the three months ended December 31, 2022 and 2021, respectively, and \$0.5 million and \$3.5 million in expense for the twelve months ended December, 2022 and 2021, respectively), and are directly offset by deferred compensation income, expenses and dividends included within "Other income, net" (\$2.0 million and \$1.8 million in income, expense and dividends in the three months ended December 31, 2022 and 2021, respectively, and \$0.5 million and \$3.5 million in income, expense and dividends in the twelve months ended December, 2022 and 2021, respectively), on the condensed consolidated statements of income. The deferred compensation plans' expenses are not excluded from "adjusted operating expenses" and do not have an impact on "Income before income taxes."

(11) Adjusted operating margin represents adjusted operating income divided by adjusted revenue less cost of revenue.

Note: 2022 Net Income allocated to common shareholders and non-GAAP EPS may not sum due to ASC 260 treatment of 2Q22 loss.

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 defined as income before interest, taxes, depreciation and amortization. Adjusted EBITDA is calculated by adding back to EBITDA acquisition-related costs, change in contingent consideration, impairment of intangible assets, loss (gain) on investment, costs related to the Cboe Digital wind down, gain on sale of property held for sale, gain on Cboe Digital non-recourse notes and warrants wind down, contra-revenue associated with the Cboe Digital syndication wind down, and income from 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 Common Stockholders to EBITDA and Adjusted EBITDA

(in millions, except per share amounts)

	1Q23	2Q23	3Q23	4Q23	2023	1Q24	2Q24	3Q24
Net income allocated to common stockholders	\$ 172.6	\$ 167.0	\$ 207.1	\$ 210.8	\$ 757.5	\$ 208.3	\$ 139.7	\$ 217.4
Interest expense, net	15.1	13.9	11.9	9.5	50.4	8.9	8.2	1.4
Income tax provision	74.8	74.0	61.9	75.5	286.2	82.6	62.6	90.5
Depreciation and amortization	41.4	39.8	38.8	38.0	158.0	37.3	31.8	31.8
EBITDA	\$ 303.9	\$ 294.7	\$ 319.7	\$ 333.8	\$ 1,252.1	\$ 337.1	\$ 242.3	\$ 341.1
EBITDA Margin	64.5%	63.1%	66.5%	66.9%	65.3%	67.1%	47.2%	64.1%
Non-GAAP adjustments not included in above line items								
Acquisition-related costs	6.4	0.7	0.8	(0.5)	7.4	0.6	0.6	-
Change in contingent consideration	-	-	-	(14.4)	(14.4)	-	3.0	(0.9)
Impairment of intangible assets	-	-	-	-	-	-	81.0	-
Loss (gain) on investment	-	-	-	1.8	1.8	-	16.0	1.0
Costs related to Cboe Digital wind down	-	-	-	-	-	-	0.8	0.8
Gain on sale of property held for sale	-	-	-	-	-	-	(1.0)	-
Gain on Cboe Digital non-recourse notes and warrants wind down	-	-	-	-	-	(0.4)	(1.0)	-
Cboe Digital syndication wind down	-	-	-	-	-	-	(1.0)	-
Income from investment	-	(2.1)	-	-	(2.1)	-	-	-
Adjusted EBITDA	\$ 310.3	\$ 293.3	\$ 320.5	\$ 320.7	\$ 1,244.8	\$ 337.3	\$ 340.7	\$ 342.0
Adjusted EBITDA Margin	65.8%	62.8%	66.7%	64.3%	64.9%	67.2%	66.3%	64.3%

Non-GAAP Information

Adjusted Debt to EBITDA - Trailing Twelve Months¹

(in millions)	4Q23	1Q24	2Q24	3Q24	LTM
Net income allocated to common stockholders	\$ 210.8	\$ 208.3	\$ 139.7	\$ 217.4	\$ 776.2
Interest expense, net	9.5	8.9	8.2	1.4	\$ 28.0
Income tax provision	75.5	82.6	62.6	90.5	\$ 311.2
Depreciation and amortization	38.0	37.3	31.8	31.8	138.9
EBITDA	\$ 333.8	\$ 337.1	\$ 242.3	\$ 341.1	\$ 1,254.3
Non-GAAP adjustments not included in above line items:					
Acquisition-related expenses	(0.5)	0.6	0.6	-	0.7
Change in contingent consideration	(14.4)	-	3.0	(0.9)	(12.3)
Impairment of intangible assets	-	-	81.0	-	81.0
Loss (gain) on investment	1.8	-	16.0	1.0	18.8
Costs related to Cboe Digital wind down	-	-	0.8	0.8	1.6
Gain on sale of property held for sale	-	-	(1.0)	-	(1.0)
Gain on Cboe Digital non-recourse notes and warrants wind down	-	(0.4)	(1.0)	-	(1.4)
Cboe Digital syndication wind down	-	-	(1.0)	-	(1.0)
Adjusted EBITDA	\$ 320.7	\$ 337.3	\$ 340.7	\$ 342.0	\$ 1,340.7
Debt at end of period					\$ 1,450.0
Debt to EBITDA					1.1x

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 9/30/23	As of 12/31/23	As of 3/31/24	As of 6/30/24	As of 9/30/24
Cash and cash equivalents	\$ 403.1	\$ 543.2	\$ 536.3	\$ 614.6	\$ 763.2
Financial investments	34.0	57.5	58.8	83.7	39.4
Less deferred compensation plan	(33.5)	(36.7)	(35.2)	(36.6)	(38.9)
Less cash collected for Section 31 fees	-	(30.5)	(23.1)	(67.2)	-
Adjusted Cash	\$ 403.6	\$ 533.5	\$ 536.8	\$ 594.5	\$ 763.7

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