UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

		Form	10-Q		
(Mark One)	QUARTERLY REPORT PUR 1934	SUANT TO SECTION	ON 13 OR 15(d) OF THE	E SECURITIES EXC	CHANGE ACT OF
or the quart	erly period ended June 30, 2022				
		~)r		
	TRANSITION REPORT PUR OF THE SECURITIES EXCH For the transition period from	SUANT TO SECTIO ANGE ACT OF 1934 to	N 13 OR 15(d) 4		
		Commission File	Number 001-36198		
	INTERCO		L EXCHAN as specified in its charter)	IGE, INC.	
	Delaware (State or other jurisdiction of incorporation or organization)			46-2286804 (IRS Employer Identification Number)	
	5660 New Northside Drive Atlanta, Georgia (Address of principal executive office			30328 (Zip Code)	
	R		57-4700 mber, including area code		
	Secu	urities registered pursua	nt to Section 12(b) of the Ac	t:	
	Title of Each Class Common Stock, \$0.01 par value per share	Trading Sy ICE		Each Exchange on Whi New York Stock Excha	_
during the pre	y check mark whether the registrant: (1) ceding 12 months (or for such shorter perfor the past 90 days. Yes ☑ No □				
	by check mark whether the registrant has Γ (§232.405 of this chapter) during the p				
	y check mark whether the registrant is a wth company. See definitions of "large ac xchange Act.				
Large acc	celerated filer		Accelerated filer		
Non-acce	elerated filer		Smaller reporting company		
			Emerging growth company		
evised financ	rging growth company, indicate by check ial accounting standards provided pursu	ant to Section 13(a) of the	Exchange Act.		omplying with any new o
	y check mark whether the registrant is a ust 1, 2022, the number of shares of the			=	

INTERCONTINENTAL EXCHANGE, INC.

Form 10-Q Quarterly Period Ended June 30, 2022 TABLE OF CONTENTS

PART I.	Financial Statements	
Item 1.	Consolidated Financial Statements (Unaudited):	
	Consolidated Balance Sheets as of June 30, 2022 and December 31, 2021	<u>2</u>
	Consolidated Statements of Income for the six months and three months ended June 30, 2022 and 2021	<u>4</u>
	Consolidated Statements of Comprehensive Income for the six months and three months ended June 30, 2022 and 2021	<u>5</u>
	Consolidated Statements of Changes in Equity and Redeemable Non-Controlling Interest for the six months and three months ended June 30, 2022 and 2021	<u>6</u>
	Consolidated Statements of Cash Flows for the six months ended June 30, 2022 and 2021	<u>8</u>
	Notes to Consolidated Financial Statements	<u>9</u>
Item 2.	Management's Discussion and Analysis of Financial Condition and Results of Operations	<u>32</u>
Item 3.	Quantitative and Qualitative Disclosures About Market Risk	<u>65</u>
Item 4.	Controls and Procedures	<u>68</u>
PART II.	Other Information	
Item 1.	<u>Legal Proceedings</u>	<u>68</u>
Item 1A.	Risk Factors	<u>68</u>
Item 2.	<u>Unregistered Sales of Equity Securities and Use of Proceeds</u>	<u>70</u>
Item 3.	<u>Defaults Upon Senior Securities</u>	<u>71</u>
Item 4.	Mine Safety Disclosures	<u>71</u>
Item 5.	Other Information	<u>71</u>
Item 6.	<u>Exhibits</u>	<u>71</u>
SIGNATURE	<u>es</u>	<u>73</u>

PART I. Financial Statements

Item 1. Consolidated Financial Statements

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Balance Sheets (In millions, except per share amounts)

	As of June 30, 2022 (Unaudited)		As of December 31, 2021
Assets:			
Current assets:			
Cash and cash equivalents	\$ 830	\$	607
Short-term restricted cash and cash equivalents	6,045		1,035
Cash and cash equivalent margin deposits and guaranty funds	164,483		145,936
Invested deposits, delivery contracts receivable and unsettled variation margin	3,189		4,493
Customer accounts receivable, net of allowance for doubtful accounts of \$25 and \$24 at June 30, 2022 and December 31, 2021, respectively	1,371		1,208
Prepaid expenses and other current assets	457		1,021
Total current assets	176,375		154,300
Property and equipment, net	1,703		1,699
Other non-current assets:			
Goodwill	21,106		21,123
Other intangible assets, net	13,397		13,736
Long-term restricted cash and cash equivalents	405		398
Other non-current assets	2,221		2,246
Total other non-current assets	37,129		37,503
Total assets	\$ 215,207	\$	193,502
Liabilities and Equity:			
Current liabilities:			
Accounts payable and accrued liabilities	\$ 719	\$	703
Section 31 fees payable	172		57
Accrued salaries and benefits	220		354
Deferred revenue	473		194
Short-term debt	4		1,521
Margin deposits and guaranty funds	164,483		145,936
Invested deposits, delivery contracts payable and unsettled variation margin	3,189		4,493
Other current liabilities	162		153
Total current liabilities	169,422		153,411
Non-current liabilities:	 , <u>, , , , , , , , , , , , , , , , , , </u>	_	·
Non-current deferred tax liability, net	3,945		4,100
Long-term debt	18,109		12,397
Accrued employee benefits	191		200
Non-current operating lease liability	267		252
Other non-current liabilities	412		394
Total non-current liabilities	22,924		17,343
Total liabilities	 192,346	_	170,754
Commitments and contingencies			

Equity:

— 1 ··· · · · ·		
Intercontinental Exchange, Inc. stockholders' equity:		
Preferred stock, \$0.01 par value; 100 shares authorized; none issued or outstanding	_	_
Common stock, \$0.01 par value; 1,500 shares authorized; 633 and 631 issued at June 30, 2022 and December 31, 2021, respectively, and 558 and 561 shares outstanding at June 30, 2022 and December 31, 2021, respectively	6	6
Treasury stock, at cost; 75 and 70 shares at June 30, 2022 and December 31, 2021, respectively	(6,223)	(5,520)
Additional paid-in capital	14,201	14,069
Retained earnings	15,135	14,350
Accumulated other comprehensive loss	(305)	(196)
Total Intercontinental Exchange, Inc. stockholders' equity	22,814	22,709
Non-controlling interest in consolidated subsidiaries	47	39
Total equity	22,861	22,748
Total liabilities and equity	\$ 215,207	\$ 193,502

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Income (In millions, except per share amounts) (Unaudited)

	Six Months E	nded	June 30,	Three Months	Ende	d June 30,
	2022		2021	2022		2021
Revenues:	 _		_			
Exchanges	\$ 3,247	\$	2,942	\$ 1,604	\$	1,336
Fixed income and data services	1,021		926	512		458
Mortgage technology	 604		695	 297		340
Total revenues	 4,872		4,563	2,413		2,134
Transaction-based expenses:	 					
Section 31 fees	174		166	123		41
Cash liquidity payments, routing and clearing	 985		893	 476		386
Total revenues, less transaction-based expenses	3,713		3,504	1,814		1,707
Operating expenses:						
Compensation and benefits	714		719	355		365
Professional services	69		81	35		37
Acquisition-related transaction and integration costs	62		28	53		10
Technology and communication	344		327	169		165
Rent and occupancy	41		41	20		20
Selling, general and administrative	112		111	57		60
Depreciation and amortization	 510		506	 256		251
Total operating expenses	 1,852		1,813	 945		908
Operating income	1,861		1,691	869		799
Other income/(expense):						
Interest income	9		_	8		_
Interest expense	(264)		(213)	(161)		(106)
Other income/(expense), net	(35)		1,287	 23		1,239
Other income/(expense), net	 (290)		1,074	(130)		1,133
Income before income tax expense	1,571		2,765	739		1,932
Income tax expense	338		862	173		679
Net income	\$ 1,233	\$	1,903	\$ 566	\$	1,253
Net income attributable to non-controlling interest	 (21)		(5)	(11)		(1)
Net income attributable to Intercontinental Exchange, Inc.	\$ 1,212	\$	1,898	\$ 555	\$	1,252
Earnings per share attributable to Intercontinental Exchange, Inc. common stockholders:						
Basic	\$ 2.17	\$	3.38	\$ 0.99	\$	2.23
Diluted	\$ 2.16	\$	3.36	\$ 0.99	\$	2.22
Weighted average common shares outstanding:						
Basic	560	_	562	558	_	563
Diluted	562		565	560		565
		==				

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Comprehensive Income (In millions) (Unaudited)

	Si	x Months 3	Enc 0,	led June	Thre		s Ended Jun 0,			
		2022		2021		2022		2021		
Net income	\$	1,233	\$	1,903	\$	566	\$	1,253		
Other comprehensive income/(loss):										
Foreign currency translation adjustments, net of tax expense/(benefit) of (\$1) for both the six and three months ended June 30, 2022 and \$1 for the three months ended June 30, 2021		(109)		17		(84)		10		
Change in equity method investment		_		1		_		_		
Other comprehensive income/(loss)		(109)		18		(84)		10		
Comprehensive income	\$	1,124	\$	1,921	\$	482	\$	1,263		
Comprehensive income attributable to non-controlling interest		(21)		(5)		(11)		(1)		
Comprehensive income attributable to Intercontinental Exchange, Inc.	\$	1,103	\$	1,916	\$	471	\$	1,262		
			_							

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Changes in Equity and Redeemable Non-Controlling Interest (In millions) (Unaudited)

			Intercontine	ental Exchange	e, Inc. Stockhold	ers' Equity		Non-	
		imon ock	Treasur	ry Stock	Additional Paid-in	Retained	Accumulated Other Comprehensive	Controlling Interest in Consolidated	Total
	Shares	Value	Shares	Value			Income/(Loss)	Subsidiaries	Equity
Balance, as of December 31, 2021	631	\$ 6	(70)	\$ (5,520)	\$ 14,069	\$ 14,350	\$ (196)	\$ 39	\$ 22,748
Other comprehensive loss	_	_	_	_	_	_	(109)	_	(109)
Exercise of common stock options	_	_	_	_	20	_	_	_	20
Repurchases of common stock	_	_	(4)	(632)	_	_	_	_	(632)
Payments relating to treasury shares	_	_	(1)	(71)	_	_	_	_	(71)
Stock-based compensation	_	_	_	_	88	_	_	_	88
Issuance under the employee stock purchase plan	_	_	_	_	24	_	_	_	24
Issuance of restricted stock	2	_	_	_	_	_	_	_	_
Distributions of profits	_	_	_	_	_	_	_	(13)	(13)
Dividends paid to stockholders	_	_	_	_	_	(427)	_	_	(427)
Net income/(loss) attributable to non- controlling interest	_	_	_	_	_	(21)	_	21	_
Net income	_	_	_	_	_	1,233	_	_	1,233
Balance, as of June 30, 2022	633	\$ 6	(75)	\$ (6,223)	\$ 14,201	\$ 15,135	\$ (305)	\$ 47	\$ 22,861

				Intercontine	enta	I Exchang	e, Ind	c. Stockhold	ers' I	Equity			Non-	
		nmon ock		Treasu	ry Si	tock	,	Additional Paid-in		Retained	Accumulated Other Comprehensive	(Controlling Interest in Consolidated	Total
	Shares	,	Value	Shares		Value		Capital		Earnings	Income/(Loss)		Subsidiaries	Equity
Balance, as of March 31, 2022	633	\$	6	(74)	\$	(6,064)	\$	14,153	\$	14,793	\$ (221)	\$	36	\$ 22,703
Other comprehensive loss	_		_	_		_		_		_	(84)		_	(84)
Exercise of common stock options	_		_	_		_		5		_	_		_	5
Repurchases of common stock	_		_	(1)		(157)		_		_	_		_	(157)
Payments relating to treasury shares	_		_	_		(2)		_		_	_		_	(2)
Stock-based compensation	_		_	_		_		43		_	_		_	43
Dividends paid to stockholders	_		_	_		_		_		(213)	_		_	(213)
Net income/(loss) attributable to non- controlling interest	_		_	_		_		_		(11)	_		11	_
Net income	_		_	_		_		_		566	_		_	566
Balance, as of June 30, 2022	633	\$	6	(75)	\$	(6,223)	\$	14,201	\$	15,135	\$ (305)	\$	47	\$ 22,861

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Changes in Equity and Redeemable Non-Controlling Interest — (Continued) (In millions) (Unaudited)

			Intercontin	nental Exchan	ge, Inc. Stockho	olders' Equity		Non-		
	St	nmon ock		ıry Stock	Additional Paid-in	Retained	Accumulated Other Comprehensive	Controlling Interest in Consolidated	_Total	Redeemable Non-Controlling
	Shares	Value	Shares	Value	Capital	Earnings	Income/(Loss)	Subsidiaries	Equity	Interest
Balance, as of December 31, 2020	629	\$ 6	(68)	\$ (5,200)	\$ 13,845	\$ 11,039	\$ (192)	\$ 36	\$ 19,534	\$ 93
Other comprehensive income	_	_	_	_	_	_	18	_	18	_
Exercise of common stock options	_	_	_	_	8	_	_	_	8	_
Payments relating to treasury shares	_	_	_	(67)	_	_	_	_	(67)	_
Stock-based compensation	_	_	_	_	81	_	_	_	81	2
Issuance under the employee stock purchase plan	_	_	_	_	18	_	_	_	18	_
Issuance of restricted stock	2	_	_	_	_	_	_	_	_	_
Distributions of profits	_	_	_	_	_	_	_	(11)	(11)	_
Dividends paid to stockholders	_	_	_	_	_	(374)	_	_	(374)	_
Net income/(loss) attributable to non- controlling interest	_	_	_	_	_	(5)	_	11	6	(6)
Net income	_	_	_	_	_	1,903	_	_	1,903	_
Balance, as of June 30, 2021	631	\$ 6	(68)	\$ (5,267)	\$ 13,952	\$ 12,563	\$ (174)	\$ 36	\$ 21,116	\$ 89

				Intercontii	nen	ital Exchar	nge,	Inc. Stockho	Ider	s' Equity		Non-			
	Com: Sto			Treasu	ıry S	Stock	,	Additional Paid-in	R	tetained	Accumulated Other Comprehensive	Controlling Interest in Consolidated	Total	I No	Redeemable
	Shares	V	alue	Shares		Value		Capital	Е	arnings	Income/(Loss)	Subsidiaries	Equity		Interest
Balance, as of March 31, 2021	631	\$	6	(68)	\$	(5,265)	\$	13,908	\$	11,498	\$ (184)	\$ 31	\$ 19,994	\$	91
Other comprehensive income	_		_	_		_		_		_	10	_	10		_
Exercise of common stock options	_		_	_		_		5		_	_	_	5		_
Payments relating to treasury shares	_		_	_		(2)		_		_	_	_	(2)		_
Stock-based compensation	_		_	_		_		39		_	_	_	39		2
Dividends paid to stockholders	_		_	_		_		_		(187)	_	_	(187)		_
Net income/(loss) attributable to non- controlling interest	_		_	_		_		_		(1)	_	5	4		(4)
Net income	_		_	_		_		_		1,253	_	_	1,253		_
Balance, as of June 30, 2021	631	\$	6	(68)	\$	(5,267)	\$	13,952	\$	12,563	\$ (174)	\$ 36	\$ 21,116	\$	89

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Cash Flows (In millions) (Unaudited)

(Offacialited)		Six Months	Ende	d June 30.
		2022		2021
Operating activities: Net income	æ	1,233	æ	1,903
	\$	1,233	\$	1,903
Adjustments to reconcile net income to net cash provided by operating activities: Depreciation and amortization		510		506
Stock-based compensation		76		73
Deferred taxes		(147)		154
Gain on sale of Euroclear investment		(41)		134
Gain on sale of Coinbase investment		(41)		(1,227)
Net losses/(income) from unconsolidated investees		57		(34)
Other		21		24
Changes in assets and liabilities:		- 1		2-7
Customer accounts receivable		(177)		(74)
Other current and non-current assets		(48)		(79)
Section 31 fees payable		115		(44)
Deferred revenue		292		279
Other current and non-current liabilities		(166)		126
Total adjustments		492		(296)
Net cash provided by operating activities		1,725		1,607
				1,001
Investing activities: Capital expenditures		(70)		(95)
Capitalized software development costs		(134)		(145)
Purchases of invested margin deposits		(1,431)		(1,644)
Proceeds from sales of invested margin deposits		3,815		2,222
Cash paid for acquisitions, net of cash acquired		(36)		(6)
Purchases of equity and equity method investments		(43)		(23)
Proceeds from sale of Euroclear investment		741		(20)
Proceeds from sale of Coinbase investment				1,237
Other		1		(2)
Net cash provided by investing activities		2,843		1,544
Financing activities:		_		
Proceeds from debt facilities, net		5,186		5
Redemption of commercial paper, net		(1,012)		(2,097)
Repurchases of common stock		(632)		(2,001)
Dividends to stockholders		(427)		(374)
Change in cash and cash equivalent margin deposits and guaranty funds		16,163		7,780
Payments relating to treasury shares received for restricted stock tax payments and stock option exercises		(71)		(67)
Other		31		15
Net cash provided by financing activities		19,238		5,262
Effect of exchange rate changes on cash and cash equivalents, restricted cash and cash equivalents, and cash equivalent margin deposits and guaranty funds		(19)		_
Net increase in cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds		23,787		8,413
Cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds at beginning of period		147,976		83,619
Cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds at end of period	\$	171,763	\$	92,032

Intercontinental Exchange, Inc. and Subsidiaries Consolidated Statements of Cash Flows (Continued) (In millions) (Unaudited)

	s of 30, 2022	 As of June 30, 2021
Supplemental cash flow disclosure:		
Cash paid for income taxes	\$ 524	\$ 414
Cash paid for interest	\$ 226	\$ 211

Reconciliation of the components of cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds to the balance sheet:

Cash and cash equivalents	\$ 830	\$ 602
Short-term restricted cash and cash equivalents	6,045	1,046
Long-term restricted cash and cash equivalents	405	398
Cash and cash equivalent margin deposits and guaranty funds	164,483	89,986
Total	\$ 171,763	\$ 92,032

Intercontinental Exchange, Inc. and Subsidiaries Notes to Consolidated Financial Statements (Unaudited)

1. Description of Business

Nature of Business and Organization

We are a provider of market infrastructure, data services and technology solutions to a broad range of customers including financial institutions, corporations and government entities. Our products, which span major asset classes including futures, equities, fixed income and United States, or U.S., residential mortgages, provide our customers with access to mission critical tools that are designed to increase asset class transparency and workflow efficiency.

- In our Exchanges segment, we operate regulated marketplaces for the listing, trading and clearing of a broad array of derivatives contracts and financial securities.
- In our Fixed Income and Data Services segment, we provide fixed income pricing, reference data, indices, analytics and execution services as well as global credit default swap, or CDS, clearing and multi-asset class data delivery solutions.
- In our Mortgage Technology segment, we provide an end-to-end technology platform that offers customers comprehensive, digital
 workflow tools that aim to address the inefficiencies that exist in the U.S. residential mortgage market, from application through closing
 and the secondary market.

We operate marketplaces, technology and provide data services in the U.S., United Kingdom, or U.K., European Union, or EU, Canada, Asia Pacific and the Middle East.

2. Summary of Significant Accounting Policies

Basis of Presentation

We prepared the accompanying unaudited consolidated financial statements in accordance with U.S. generally accepted accounting principles, or U.S. GAAP, pursuant to the rules and regulations of the Securities and Exchange Commission, or SEC, regarding interim financial reporting. Accordingly, the unaudited consolidated financial statements do not include all of the information and footnotes required by U.S. GAAP for complete financial statements and should be read in conjunction with our audited consolidated financial statements and related notes thereto for the year ended December 31, 2021. The accompanying unaudited consolidated financial statements reflect all adjustments that are, in our opinion, necessary for a fair presentation of results for the interim periods presented. We believe that these adjustments are of a normal recurring nature.

Preparing financial statements in conformity with U.S. GAAP requires us to make certain estimates and assumptions that affect the amounts that are reported in our consolidated financial statements and accompanying disclosures. Actual amounts could differ from those estimates. The results of operations for the six months and three months ended June 30, 2022 are not necessarily indicative of the results to be expected for any future period or the full fiscal year.

These statements include the accounts of our wholly-owned and controlled subsidiaries. All intercompany balances and transactions between us and our wholly-owned and controlled subsidiaries have been eliminated in consolidation. For consolidated subsidiaries in which our ownership is less than 100% and for which we have control over the assets and liabilities and the management of the entity, the outside stockholders' interests are shown as non-controlling interests.

We have considered the impacts of the ongoing conflict between Russia, Belarus and Ukraine on our financial statements. As of June 30, 2022, our businesses and operations, including our exchanges, clearing houses, listings venues, data services businesses and mortgage platforms, have not suffered a material negative impact as a result of these events. There continues to be uncertainty surrounding the extent and duration of this ongoing conflict and the impact that it may have on the global economy and on our business.

Consolidated Statements of Cash Flows Presentation

As of December 31, 2021, we revised our consolidated statements of cash flows to include changes in cash and cash equivalent margin within cash flows from financing activities and changes in invested margin deposits within cash flows from investing activities. This immaterial revision did not have an effect on our previously reported consolidated balance sheets, statements of income, statements of comprehensive income, or statements of changes in equity and redeemable non-controlling interest or the related disclosures. Cash and cash equivalent margin amounts cannot be used to satisfy the Company's operating or other liabilities, as further discussed in Note 12. The following table summarizes the

immaterial revisions to our historical consolidated statements of cash flows for the six months ended June 30, 2021 (in millions):

	Six Month's Ended Julie 30, 2021							
	As Previously Presented	Adjustment	As Adjusted					
Purchases of invested margin deposits (within investing activities)	\$	\$ (1,644)	\$ (1,644)					
Proceeds from sales of invested margin deposits (within investing activities)	_	2,222	2,222					
Net cash provided by investing activities	966	578	1,544					
Change in cash and cash equivalent margin deposits and guaranty funds (within financing activities)	_	7,780	7,780					
Net cash provided by/(used in) financing activities	(2,518)	7,780	5,262					
Net increase in cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds	55	8,358	8,413					
Cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds at beginning of period	1,991	81,628	83,619					
Cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds at end of period	\$ 2,046	\$ 89,986	\$ 92,032					

Six Months Ended June 30, 2021

Recently Adopted Accounting Pronouncements

During the six months ended June 30, 2022, there were no significant changes to the new and recently adopted accounting pronouncements applicable to us from those disclosed in Note 2 to the consolidated financial statements in Part II, Item 8 of our Annual Report on Form 10-K for the year ended December 31, 2021, or the 2021 Form 10-K.

3. Acquisitions and Divestitures

Pending Acquisition of Black Knight, Inc.

On May 4, 2022, we announced that we had entered into a definitive agreement to acquire Black Knight, Inc., or Black Knight, a software, data and analytics company that serves the housing finance continuum, including real estate data, mortgage lending and servicing, as well as the secondary markets. Pursuant to that certain Agreement and Plan of Merger, dated as of May 4, 2022, among ICE, Sand Merger Sub Corporation, a wholly owned subsidiary of ICE, or Sub, and Black Knight, which we refer to as the "merger agreement," Sub will merge with and into Black Knight, which we refer to as the "merger," with Black Knight surviving as a wholly owned subsidiary of ICE. As of May 4, 2022, the transaction was valued at approximately \$13.1 billion, or \$85 per share of Black Knight common stock, with cash comprising 80% of the value of the aggregate transaction consideration and shares of our common stock comprising 20% of the value of the aggregate transaction at that time. The aggregate cash component of the transaction consideration is fixed at \$10.5 billion, and the value of the aggregate stock component of the transaction consideration will fluctuate with the market price of our common stock and will be determined based on the average of the volume weighted averages of the trading prices of our common stock on each of the ten consecutive trading days ending three trading days prior to the closing of the merger. This transaction builds on our position as a provider of end-to-end electronic workflow solutions for the rapidly evolving U.S. residential mortgage industry.

Black Knight provides a comprehensive and integrated ecosystem of software, data and analytics solutions serving the real estate and housing finance markets. We believe the Black Knight ecosystem adds value for clients of all sizes across the mortgage and real estate lifecycles by helping organizations lower costs, increase efficiencies, grow their businesses, and reduce risk.

The transaction is expected to close in the first half of 2023, following the receipt of regulatory approvals and the satisfaction of customary closing conditions. On July 22, 2022, we filed an amended preliminary proxy statement/prospectus on Form S-4 with the SEC, which is undergoing review by the SEC.

Bakkt Transaction

As discussed in Note 3 to the consolidated financial statements included in Part II, Item 8 of our 2021 Form 10-K, on October 15, 2021, Bakkt Holdings, LLC, or Bakkt, completed its merger with VPC Impact Acquisition Holdings, or VIH, a

special purpose acquisition company sponsored by Victory Park Capital, or VPC. The newly combined company was renamed Bakkt Holdings, Inc. and is listed on the New York Stock Exchange, or NYSE.

Following the transaction, we held an approximate 68% economic interest in the combined company. As a result of limitations on ICE from the Bakkt voting agreement entered into in connection with the transaction, we hold a minority voting interest in the combined company. Prior to the closing, Bakkt revenues and operating expenses were reported within our consolidated revenues and operating expenses. Following the closing, as a consequence of holding a minority voting interest in the combined company, during the fourth quarter of 2021 we deconsolidated Bakkt and treat it as an equity method investment within our financial statements.

4. Investments

Equity Investments

Our equity investments are subject to valuation under ASU 2016-01, Financial Instruments- Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities, or ASU 2016-01. See Note 14 for a discussion of our determination of fair value of our financial instruments.

Investment in Euroclear

We previously owned a 9.8% stake in Euroclear, plc, or Euroclear, that we originally purchased for \$631 million. We participated on the Euroclear Board of Directors, and classified our investment in Euroclear as an equity investment.

On May 17, 2022, we announced the divestment of our 9.8% stake in Euroclear and we completed the sale during the three months ended June 30, 2022. The carrying value of our investment was \$700 million at the time of the sale and was classified within other current assets on our balance sheet. We recorded a net gain on the sale of \$41 million, which is included in other income, during the three months ended June 30, 2022.

We did not receive a dividend from Euroclear during the six months ended June 30, 2022. We recognized dividend income of \$30 million during the six months ended June 30, 2021 from Euroclear, which is included in other income.

Investment in Coinbase

On December 1, 2014, we acquired preferred stock of Coinbase Global, Inc., or Coinbase, which operates a cryptocurrency exchange platform, for \$10 million, representing a 1.4% ownership share on a fully-diluted, as-converted basis. On April 14, 2021, Coinbase completed an initial public offering, or IPO. On April 15, 2021, we completed the sale of our investment in Coinbase for \$1.24 billion and recorded a gain of \$1.23 billion, or \$892 million net of tax, as other income in our consolidated statement of income during the three months ended June 30, 2021.

Equity Method Investments

Our equity method investments include the Options Clearing Corporation, or OCC, and Bakkt, among others. Our equity method investments are included in other non-current assets in the accompanying consolidated balance sheet. We carry our equity method investments at cost and assess the carrying value periodically if impairment indicators are present. At the end of each reporting period, we record our share of profits or losses of our equity method investments as equity earnings included in other income. We recognized (\$57 million) and \$34 million as our share of estimated (losses)/profits, net, from our equity method investments during the six months ended June 30, 2022 and 2021, respectively, and (\$15 million) and \$9 million as our share of (losses)/profits, net, from our equity method investments during the three months ended June 30, 2022 are primarily related to our investment in Bakkt, and the estimated profits during the six months and three months ended June 30, 2021 are related to our investment in OCC. Both periods include adjustments to reflect the difference between reported prior period actual results from our original estimates.

Investment in OCC

We own a 40% interest in OCC through a direct investment by the NYSE. OCC is regulated by the SEC as a registered clearing agency and by the Commodity Futures Trading Commission, or CFTC, as a derivatives clearing organization. OCC serves as a clearing house for securities options, security futures, commodity futures and options on futures traded on various independent exchanges. OCC clears securities options traded on NYSE Arca and NYSE Amex Options, along with other non-affiliated exchanges.

Investment in Bakkt

Following Bakkt's October 15, 2021 merger with VIH, we held an approximate 68% economic interest in Bakkt and treat it as an equity method investment (see Note 3). As of June 30, 2022 the carrying value of our Bakkt investment was \$1.5 billion.

5. Revenue Recognition

Services transferred over time

Total revenues, less transaction-based expenses

Substantially all of our revenues are considered to be revenues from contracts with customers. The related accounts receivable balances are recorded in our balance sheets as customer accounts receivable. We do not have obligations for warranties, returns or refunds to customers, other than rebates, which are settled each period and therefore do not result in variable consideration. We do not have significant revenue recognized from performance obligations that were satisfied in prior periods, and we do not have any transaction price allocated to unsatisfied performance obligations other than in our deferred revenue.

Deferred revenue represents our contract liabilities related to our annual, original and other listings revenues, certain data services, clearing services, mortgage technology services and other revenues. Deferred revenue is our only significant contract liability. See Note 7 for our discussion of deferred revenue balances, activity, and expected timing of recognition.

For all of our contracts with customers, except for listings and certain data, clearing and mortgage services, our performance obligations are short term in nature and there is no significant variable consideration. In addition, we have elected the practical expedient of excluding sales taxes from transaction prices. We have assessed the costs incurred to obtain or fulfill a contract with a customer and determined them to be immaterial.

Certain judgments and estimates are used in the identification and timing of satisfaction of performance obligations and the related allocation of transaction price. We believe that these represent a faithful depiction of the transfer of services to our customers. Refer to Note 5 to the consolidated financial statements included in Part II, Item 8 of our 2021 Form 10-K where our primary revenue contract classifications are described in detail.

The following table depicts the disaggregation of our revenue according to business line and segment (in millions). Amounts here have been aggregated as they follow consistent revenue recognition patterns, and are consistent with the segment information in Note 15:

		changes egment	Data	Income and Services egment		Mortgage Technology Segment	Total C	onsolidated
Six Months Ended June 30, 2022:								
Total revenues	\$	3,247	\$	1,021	\$	604	\$	4,872
Transaction-based expenses		1,159						1,159
Total revenues, less transaction-based expenses	\$	2,088	\$	1,021	\$	604	\$	3,713
Timing of Revenue Recognition								
Services transferred at a point in time	\$	1,197	\$	159	\$	270	\$	1,626
Services transferred over time		891		862		334		2,087
Total revenues, less transaction-based expenses	\$	2,088	\$	1,021	\$	604	\$	3,713
		changes egment	Fixed Income and Data Services Segment			Mortgage Technology Segment	Total Consolidated	
Six Months Ended June 30, 2021:								
SIX MONUIS Ended June 30, 2021.								
Total revenues	\$	2,942	\$	926	\$	695	\$	4,563
·	\$	2,942 1,059	\$	926 —	\$	695 —	\$	4,563 1,059
Total revenues	\$ <u>\$</u>	,	\$	926 — 926	\$	695 — 695	\$,
Total revenues Transaction-based expenses	\$ <u>\$</u>	1,059		_	_			1,059

827

1,883

819

926

278

695

3,504

		Exchanges Segment	F	Tixed Income and Data Services Segment		Mortgage Technology Segment	Total	Consolidated
Three Months Ended June 30, 2022								
Total revenues	\$	1,604	\$	512	\$	297	\$	2,413
Transaction-based expenses		599		_		_		599
Total revenues, less transaction-based expenses	\$	1,005	\$	512	\$	297	\$	1,814
Timing of Revenue Recognition								
Services transferred at a point in time	\$	563	\$	83	\$	128	\$	774
Services transferred over time		442		429		169		1,040
Total revenues, less transaction-based expenses	\$	1,005	\$	512	\$	297	\$	1,814
T	_	Exchanges Segment	F	Fixed Income and Data Services Segment		Mortgage Technology Segment	Total	Consolidated
Three Months Ended June 30, 2021	•	4 000	•	450	•	0.10	•	0.404
Total revenues	\$	1,336	\$	458	\$	340	\$	2,134
Transaction-based expenses		427				_		427
Total revenues, less transaction-based expenses	\$	909	\$	458	\$	340	\$	1,707
Timing of Revenue Recognition								
Services transferred at a point in time	\$	495	\$	47	\$	196	\$	738

The Exchanges segment and the Fixed Income and Data Services segment revenues above include data services revenues. Our data services revenues are transferred over time, and a majority of those revenues are performed over a short period of time of one month or less and relate to subscription-based data services billed monthly, quarterly or annually in advance. These revenues are recognized ratably over time as our data delivery performance obligations are met consistently throughout the period.

414

909

411

458

144

340

969

1,707

Services transferred over time

Total revenues, less transaction-based expenses

The Exchanges segment revenues transferred over time in the table above also include services related to listings, services related to risk management of open interest performance obligations and services related to regulatory fees, trading permits, and software licenses.

The Fixed Income and Data Services segment revenues transferred over time in the table above also include services related to risk management of open interest performance obligations, primarily in our CDS business.

The Mortgage Technology segment revenues transferred over time in the table above primarily relate to our origination technology revenue where performance obligations consist of a series of distinct services and are recognized over the contract terms as subscription performance obligations are satisfied, and to a lesser extent, professional services revenues and revenues from certain of our data and analytics offerings.

The components of services transferred over time for each of our segments are as follows:

	Six Months Ended June 30,			Three Months Ended June 30,			
		2022		2021	2022		2021
Exchanges Segment:							
Data services revenues	\$	432	\$	415	\$ 218	\$	208
Services transferred over time related to risk management of open interest performance obligations	\$	139	\$	125	\$ 63	\$	59
Services transferred over time related to listings	\$	260	\$	233	\$ 131	\$	119
Services transferred over time related to regulatory fees, trading permits, and software licenses	\$	60	\$	54	\$ 30	\$	28
Total	\$	891	\$	827	\$ 442	\$	414
Fixed Income Data Services Segment:							
Data services revenues	\$	843	\$	806	\$ 421	\$	407
Services transferred over time related to risk management of open interest performance obligations in our CDS business	\$	19	\$	13	\$ 8	\$	4
Total	\$	862	\$	819	\$ 429	\$	411
Mortgage Technology Segment:			\ <u></u>				
Subscription revenues	\$	312	\$	258	\$ 159	\$	134
Professional service revenues and other	\$	22	\$	20	\$ 10	\$	10
Total	\$	334	\$	278	\$ 169	\$	144
Total consolidated revenues transferred over time	\$	2,087	\$	1,924	\$ 1,040	\$	969

6. Goodwill and Other Intangible Assets

The following is a summary of the activity in the goodwill balance for the six months ended June 30, 2022 (in millions):

Goodwill balance at December 31, 2021	\$	21,123
Acquisitions		31
Foreign currency translation		(46)
Other activity, net		(2)
Goodwill balance at June 30, 2022	\$	21,106
The following is a summary of the activity in the other intangible assets balance for the six months ended June 30, 2022 (i	n millions).	
	11 11111110113).	
Other intangible assets balance at December 31, 2021	\$	13,736
Acquisitions		7
Foreign currency translation		(43)
Amortization of other intangible assets		(306)
Other activity, net		3
Other intangible assets balance at June 30, 2022	\$	13,397

Foreign currency translation adjustments result from a portion of our goodwill and other intangible assets being held at our U.K., EU and Canadian subsidiaries, whose functional currencies are not the U.S. dollar. The changes in other activity, net, in the table above primarily relate to adjustments to the fair value of the net tangible and intangible assets made within one year of acquisitions, with a corresponding adjustment to goodwill. We have performed an analysis of impairment indicators and did not recognize any impairment losses on goodwill or other intangible assets during the six months or three months ended June 30, 2022.

7. Deferred Revenue

Our contract liabilities, or deferred revenue, represent consideration received that is yet to be recognized as revenue. Total deferred revenue was \$575 million as of June 30, 2022, including \$473 million in current deferred revenue and \$102

million in other non-current liabilities. The changes in our deferred revenue during the six months ended June 30, 2022 are as follows (in millions):

	List	nual tings enues	Original Listings levenues	 Other Listings Revenues	 ata Services and Other Revenues	_	Mortgage Technology	 Total
Deferred revenue balance at December 31, 2021	\$		\$ 19	\$ 93	\$ 93	\$	79	\$ 284
Additions		435	31	34	283		46	829
Amortization		(219)	(19)	(23)	(222)		(55)	(538)
Deferred revenue balance at June 30, 2022	\$	216	\$ 31	\$ 104	\$ 154	\$	70	\$ 575

The changes in our deferred revenue during the six months ended June 30, 2021 are as follows (in millions):

	Li	nnual stings venues	Original Listings Revenues	Other Listings Revenues	 ata Services and Other Revenues	Mortgage echnology	 Total
Deferred revenue balance at December 31, 2020	\$	_	\$ 13	\$ 92	\$ 95	\$ 59	\$ 259
Additions		384	19	34	265	37	739
Amortization		(197)	(14)	 (22)	(206)	(21)	(460)
Deferred revenue balance at June 30, 2021	\$	187	\$ 18	\$ 104	\$ 154	\$ 75	\$ 538

Included in the amortization recognized during the six months ended June 30, 2022 is \$119 million related to the deferred revenue balance as of December 31, 2021. Included in the amortization recognized for the six months ended June 30, 2021 is \$98 million related to the deferred revenue balance as of December 31, 2020. As of June 30, 2022, the remaining deferred revenue balance will be recognized over the period of time we satisfy our performance obligations as described in Note 5.

8. Debt

Our total debt, including short-term and long-term debt, consisted of the following (in millions):

	As of June 30, 2022	As of December 31, 2021
Debt:		
Short-term debt:		
Commercial Paper	\$ —	\$ 1,012
2022 Senior Notes (2.35% senior unsecured notes due September 15, 2022)	_	499
Other short-term debt	4	10
Total short-term debt	4	1,521
Long-term debt:		
2023 Senior Notes (0.70% senior unsecured notes due June 15, 2023)	_	997
2023 Senior Notes (3.45% senior unsecured notes due September 21, 2023)	_	399
2023 Senior Notes (4.00% senior unsecured notes due October 15, 2023)	_	797
2025 Senior Notes (3.65% senior unsecured notes due May 23, 2025)	1,242	_
2025 Senior Notes (3.75% senior unsecured notes due December 1, 2025)	1,247	1,246
2027 Senior Notes (4.00% senior unsecured notes due September 15, 2027)	1,485	_
2027 Senior Notes (3.10% senior unsecured notes due September 15, 2027)	497	497
2028 Senior Notes (3.75% senior unsecured notes due September 21, 2028)	594	594
2029 Senior Notes (4.35% senior unsecured notes due June 15, 2029)	1,239	_
2030 Senior Notes (2.10% senior unsecured notes due June 15, 2030)	1,235	1,234
2032 Senior Notes (1.85% senior unsecured notes due September 15, 2032)	1,484	1,483
2033 Senior Notes (4.60% senior unsecured notes due March 15, 2033)	1,487	_
2040 Senior Notes (2.65% senior unsecured notes due September 15, 2040)	1,230	1,230
2048 Senior Notes (4.25% senior unsecured notes due September 21, 2048)	1,231	1,230
2050 Senior Notes (3.00% senior unsecured notes due June 15, 2050)	1,221	1,220
2052 Senior Notes (4.95% senior unsecured notes due June 15, 2052)	1,463	_
2060 Senior Notes (3.00% senior unsecured notes due September 15, 2060)	1,471	1,470
2062 Senior Notes (5.20% senior unsecured notes due June 15, 2062)	983	
Total long-term debt	18,109	12,397
Total debt	\$ 18,113	\$ 13,918

Our senior notes of \$18.1 billion have a weighted average maturity of 17 years and a weighted average cost of 3.6% per annum.

Credit Facilities

We have a \$3.9 billion senior unsecured revolving credit facility, or the Credit Facility, with future capacity to increase our borrowings under the Credit Facility by an additional \$1.0 billion, subject to the consent of the lenders funding the increase and certain other conditions. On May 25, 2022, we agreed with the lenders to extend the maturity date of the Credit Facility from October 15, 2026, to May 25, 2027, among other items. We also exercised our option to increase the amount of the Credit Facility from \$3.8 billion to \$3.9 billion. We incurred new debt issuance costs of \$4 million relating to the Credit Facility and these costs are represented in the accompanying consolidated balance sheet as other non-current assets and will be amortized over the remaining life of the Credit Facility. No amounts were outstanding under the Credit Facility as of June 30, 2022.

As of June 30, 2022, of the \$3.9 billion that is currently available for borrowing under the Credit Facility, \$170 million is required to support certain broker-dealer and other subsidiary commitments. As of June 30, 2022, and as there is no commercial paper outstanding, there is no required amount to backstop our U.S. dollar commercial paper program, or the Commercial Paper Program. The amount required to backstop the amounts outstanding under the Commercial Paper Program will fluctuate as we increase or decrease our commercial paper borrowings. The remaining \$3.7 billion is available for working capital and general corporate purposes including, but not limited to, acting as a backstop to future increases in the amounts outstanding under the Commercial Paper Program.

On May 4, 2022, we entered into a 364-day senior unsecured bridge facility in an aggregate principal amount not to exceed \$14.0 billion, or the Bridge Facility. The commitments that the Company obtained for the Bridge Facility have been permanently reduced from \$14.0 billion to \$1.2 billion as of June 30, 2022 as a result of (i) the amendment and extension of the Credit Facility, (ii) the issuance by the Company of certain senior unsecured notes on May 23, 2022, (iii) Euroclear divestment proceeds, (iv) the generation of cash internally by the Company, and (v) the effectiveness of our term loan facility.

On May 25, 2022, we entered into a \$2.4 billion two-year senior unsecured delayed draw term loan facility, or Term Loan. Draws under the Term Loan bear interest on the principal amount outstanding at either (a) Term Secured Overnight Financing Rate, or Term SOFR, plus an applicable margin plus a credit spread adjustment of 10 basis points or (b) a "base rate" plus an applicable margin. The applicable margin ranges from 0.625% to 1.125% for Term SOFR loans and from 0.000% to 0.125% for base rate loans, in each case, based on a ratings-based pricing grid. The proceeds from borrowings under the Term Loan will be used to fund a portion of the purchase price for the Black Knight acquisition. We incurred new debt issuance costs of \$4 million relating to the Term Loan and these costs are represented in the accompanying consolidated balance sheet as other non-current assets and will be amortized over the remaining life of the Term Loan. We have the option to prepay outstanding amounts under the Term Loan in whole or in part at any time. No amounts were outstanding under the Term Loan as of June 30, 2022.

Our India subsidiaries maintain \$14 million of credit lines for their general corporate purposes. As of June 30, 2022, they had borrowed \$4 million, which is reflected as "other short-term debt" in the table above.

Commercial Paper Program

Our Commercial Paper Program is currently backed by the borrowing capacity available under the Credit Facility, as described above. The effective interest rate of commercial paper issuances does not materially differ from short-term interest rates, which fluctuate due to market conditions and as a result may impact our interest expense. During the six months ended June 30, 2022, we had net paydowns of \$1.0 billion under the Commercial Paper Program and did not have any notes outstanding under our Commercial Paper Program as of June 30, 2022.

New Senior Notes

On May 23, 2022, we issued \$8.0 billion in aggregate principal amount of new senior notes, comprised of the following:

- \$1.25 billion in aggregate principal amount of 3.65% senior notes due in 2025, or the 2025 Notes;
- \$1.5 billion in aggregate principal amount of 4.00% senior notes due in 2027, or the 2027 Notes;
- \$1.25 billion in aggregate principal amount of 4.35% senior notes due in 2029, or the 2029 Notes;
- \$1.5 billion in aggregate principal amount of 4.60% senior notes due in 2033, or the 2033 Notes;
- \$1.5 billion in aggregate principal amount of 4.95% senior notes due in 2052, or the 2052 Notes; and
- \$1.0 billion in aggregate principal amount of 5.20% senior notes due in 2062, or the 2062 Notes, and collectively, the Notes.

We intend to use the net proceeds of \$4.9 billion from the offering of the 2025 Notes, the 2027 Notes, the 2029 Notes and the 2062 Notes, or collectively, the SMR Notes, together with the issuance of commercial paper and/or borrowings under the Credit Facility, cash on hand or other immediately available funds and borrowings under the Term Loan, to finance the cash portion of the purchase price for Black Knight. The SMR Notes are subject to a special mandatory redemption feature pursuant to which we will be required to redeem all of the outstanding SMR Notes at a redemption price equal to 101% of the aggregate principal amount of the SMR Notes, plus accrued and unpaid interest, in the event that the Black Knight acquisition is not consummated on or prior to May 4, 2023, subject to two automatic extensions of three months each, to August 4, 2023 and to November 4, 2023, respectively, if U.S. antitrust clearance or a related law, injunction, order or other judgment, in each case whether temporary, preliminary or permanent, that restrains, enjoins or otherwise prohibits the consummation of the Black Knight merger remains outstanding and all other conditions to closing are satisfied (or in the case of conditions that by their terms are to be satisfied at the closing, are capable of being satisfied if the closing were to occur on such date) at each extension date, or if the Black Knight merger agreement is terminated at any time prior to such date. The \$4.9 billion net proceeds from the SMR Notes are separately invested and recorded as short-term restricted cash and cash equivalents in our consolidated balance sheet as of June 30, 2022.

We used the \$3.0 billion of net proceeds from the offering of the 2033 Notes and the 2052 Notes to redeem \$2.7 billion aggregate principal amount of four series of senior notes that would have matured in 2022 and 2023. The balance of the net proceeds was used for general corporate purposes, which included paying down a portion of the amounts outstanding under our Commercial Paper Program. We recorded \$30 million in costs associated with the extinguishment and re-financing of our existing debt in connection with our May 2022 debt refinancing. These costs are included in interest

expense in our consolidated statements of income for the six months ended June 30, 2022.

We incurred debt issuance costs of \$67 million relating to the issuance of the Notes and these costs are presented in the accompanying consolidated balance sheet as a deduction from the carrying amount of the related debt liability and will be amortized over the remaining term of each series of the Notes. The Notes contain affirmative and negative covenants, including, but not limited to, certain redemption rights, limitations on liens and indebtedness and limitations on certain mergers, sales, dispositions and lease-back transactions.

9. Share-Based Compensation

We currently sponsor employee and director stock option, restricted stock and employee stock purchase plans. Stock options and restricted stock are granted at the discretion of the Compensation Committee of our Board of Directors, or Board, based on the estimated fair value on the date of grant. The fair value of the stock options and restricted stock on the date of grant is recognized as expense over the vesting period, net of forfeitures. The non-cash compensation expenses recognized in our consolidated statements of income for stock options, restricted stock and under our employee stock purchase plan, net of amounts classified as capitalized software, were \$76 million and \$73 million for the six months ended June 30, 2022 and 2021, respectively, and \$38 million and \$37 million during the three months ended June 30, 2022 and 2021, respectively.

Stock Option Plans

We use the Black-Scholes option pricing model to value our stock option awards. During the six months ended June 30, 2022 and 2021, we used the assumptions in the table below to compute the value:

	Six Months Er	nded June 30,
Assumptions:	2022	2021
Risk-free interest rate	1.72%	0.64%
Expected life in years	6.0	5.7
Expected volatility	23%	24%
Expected dividend yield	1.17%	1.16%
Estimated weighted-average fair value of options granted per share	\$28.18	\$22.70

The risk-free interest rate is based on the zero-coupon U.S. Treasury yield curve in effect at the date of grant. The expected life is derived from historical and anticipated future exercise patterns. Expected volatility is based on historical volatility data of our stock.

Restricted Stock Plans

Restricted shares are used as an incentive to attract and retain qualified employees and to align our and our stockholders' interests by linking actual performance to both short and long-term stockholder return. We issue awards that may contain a combination of time, performance and/or market conditions. The grant date fair value of each award is based on the closing stock price of our stock at the date of grant. For time-based restricted stock, we recognize expense ratably over the vesting period, which is typically three or four years, net of forfeitures.

In February 2022, we reserved a maximum of 0.7 million restricted shares for potential issuance as performance-based restricted shares to certain of our employees. The number of shares ultimately granted under this award will be based on our actual financial performance as compared to financial performance targets set by our Board and the Compensation Committee for the year ending December 31, 2022, and will also be subject to a market condition reduction based on how our 2022 total stockholder return, or TSR, compares to that of the S&P 500 Index. The maximum compensation expense to be recognized under these performance-based restricted shares is \$84 million if the maximum financial performance target is met and all 0.7 million shares vest. The compensation expense to be recognized under these performance-based restricted shares will be \$42 million if the target financial performance is met, which would result in 0.3 million shares vesting. For these awards with performance conditions, we recognize expense on an accelerated basis over the three-year vesting period based on our quarterly assessment of the probable 2022 actual financial performance as compared to the 2022 financial performance targets. As of June 30, 2022, our best estimate is that the financial performance level will be at target for 2022. Based on this assessment, we recorded non-cash compensation expense of \$10 million and \$6 million for the six months and three months ended June 30, 2022, respectively, related to these awards and the remaining \$32 million in non-cash compensation expense will be recorded on an accelerated basis over the remaining vesting period, including \$13 million which will be recorded over the remainder of 2022.

We also issue awards with a market condition but no performance condition. The fair value of these awards is estimated based on a simulation of various outcomes and includes inputs such as our stock price on the grant date, the valuation of historical awards with market conditions, the relatively low likelihood that the market condition will affect the number of shares granted (as the market condition only affects shares granted in excess of certain financial performance targets), and our expectation of achieving the financial performance targets.

10. Equity

Stock Repurchase Program

In December 2021, our Board approved an aggregate of \$3.15 billion for future repurchases of our common stock with no fixed expiration date that became effective on January 1, 2022. The \$3.15 billion replaced the previous amount approved by the Board. The approval of our Board for the share repurchases does not obligate us to acquire any particular amount of our common stock. In addition, our Board may increase or decrease the amount available for repurchases from time to time. We fund repurchases from our operating cash flow or borrowings under our debt facilities or our Commercial Paper Program. Repurchases may be made from time to time on the open market, through established trading plans, in privately-negotiated transactions or otherwise, in accordance with all applicable securities laws, rules and regulations. We may begin or discontinue stock repurchases at any time and may amend or terminate a Rule 10b5-1 trading plan at any time or enter into additional plans.

During the six months and three months ended June 30, 2022, we repurchased a total of 5.0 million and 1.3 million shares, respectively, of our outstanding common stock at a cost of \$632 million and \$157 million, respectively, consisting of 4.6 million shares at a cost of \$582 million under our Rule 10b5-1 trading plan and 0.4 million shares at a cost of \$50 million on the open market during an open trading period. All shares repurchased during the three months ended June 30, 2022 were done under our Rule 10b5-1 trading plan. We had no stock repurchases during the six months ended June 30, 2021. As of June 30, 2022, the remaining balance of Board approved funds for future repurchases was \$2.5 billion. In connection with our pending acquisition of Black Knight, on May 4, 2022 we terminated our Rule 10b5-1 trading plan and suspended share repurchases.

Dividends

During the six months ended June 30, 2022 and 2021, we declared and paid cash dividends per share of \$0.76 and \$0.66, respectively, for an aggregate payout of \$427 million and \$374 million, respectively. During the three months ended June 30, 2022 and 2021, we declared and paid cash dividends per share of \$0.38 and \$0.33, respectively, for an aggregate payout of \$213 million and \$187 million, respectively. The declaration of dividends is subject to the discretion of our Board. Our Board has adopted a quarterly dividend declaration policy providing that the declaration of any dividends will be determined quarterly by the Board or the Audit Committee, taking into account such factors as our evolving business model, prevailing business conditions, our financial results and capital requirements and other considerations which our Board deems relevant, without a predetermined annual net income payout ratio.

Accumulated Other Comprehensive Income/(Loss)

The following tables present changes in the accumulated balances for each component of other comprehensive income/ (loss) (in millions):

	Changes in Accumulated Other Comprehensive Income/(Loss) by Component									
	Foreign currency translation adjustments	Comprehensive income from equity method investment	Employee benefit plans adjustments	Total						
Balance, as of December 31, 2021	\$ (150)	\$ 2	\$ (48)	\$ (196)						
Other comprehensive income/(loss)	(110)	_	_	(110)						
Income tax benefit/(expense)	1	_	_	1						
Net current period other comprehensive income/(loss)	(109)	_	_	(109)						
Balance, as of June 30, 2022	\$ (259)	\$ 2	\$ (48)	\$ (305)						

Changes in Accumulated Other Comprehensive Income/(Loss) by Component

	Foreign currency translation adjustments	S	Comprehensive income from equity method investment	Employee benefit plans adjustments			Total
Balance, as of March 31, 2022	\$ (175) :	\$ 2	\$	(48)	\$	(221)
Other comprehensive income/(loss)	(85)	_		_		(85)
Income tax benefit/(expense)	1		_		_		1
Net current period other comprehensive income/(loss)	(84)	_		_		(84)
Balance, as of June 30, 2022	\$ (259) :	\$ 2	\$	(48)	\$	(305)

Changes in Accumulated Other Comprehensive Income/(Loss) by Component

	 			<u> </u>		
	gn currency on adjustments	(Comprehensive income from equity method investment	Employee benefi plans adjustment		Total
Balance, as of December 31, 2020	\$ (134)	\$	1	\$ (5	9)	\$ (192)
Other comprehensive income/(loss)	 17		2	-	_	19
Income tax benefit/(expense)	_		(1)	-	_	(1)
Net current period other comprehensive income/(loss)	17		1	_	_	18
Balance, as of June 30, 2021	\$ (117)	\$	2	\$ (5	9)	\$ (174)

Changes in Accumulated Other Comprehensive Income/(Loss) by Component

enangee in recommunities of their comprehensive income (2000) by compe									
		(Employee benefit plans adjustments			Total			
\$	(127)	\$	2	\$	(59)	\$	(184)		
	11		_		_		11		
	(1)		_		_		(1)		
-	10		_				10		
\$	(117)	\$	2	\$	(59)	\$	(174)		
		Foreign currency translation adjustments \$ (127) 11 (1) 10	Foreign currency translation adjustments \$ (127) \$ 11 (1) 10	Foreign currency translation adjustments \$ (127)	Foreign currency translation adjustments \$ (127) \$ 2 \$ 11	Foreign currency translation adjustments \$ (127) \$ 2 \$ (59) 11	Foreign currency translation adjustments from equity method investment Employee benefit plans adjustments \$ (127) \$ 2 \$ (59) \$ 11		

11. Income Taxes

Our effective tax rate was 22% and 31% for the six months ended June 30, 2022 and 2021, respectively, and 23% and 35% during the three months ended June 30, 2022 and 2021, respectively. The effective tax rates for the six months and three months ended June 30, 2022 were lower than the effective tax rates for the comparable periods in 2021 primarily due to the deferred income tax impact from U.K. tax law changes as well as from the impact of the sale of our investment in Coinbase during the six months ended June 30, 2021. During the three months ended June 30, 2021, the U.K. Finance Act 2021 was enacted, which increased the U.K. corporate income tax rate from 19% to 25%, effective April 1, 2023. The combined impact of the U.K. deferred tax provision and the sale of our investment in Coinbase for the six months and three months ended June 30, 2021 increased our effective tax rate by 8 and 12 percentage points, respectively.

12. Clearing Operations

We operate six clearing houses, each of which acts as a central counterparty that becomes the buyer to every seller and the seller to every buyer for its clearing members or participants, or Members. Through this central counterparty function, the clearing houses provide financial security for each transaction for the duration of the position by limiting counterparty credit risk.

Our clearing houses are responsible for providing clearing services to each of our futures exchanges, and in some cases to third-party execution venues, and are as follows, referred to herein collectively as "the ICE Clearing Houses":

Clearing House	Products Cleared	Exchange where Executed	Location
ICE Clear Europe	Energy, agricultural, interest rates and equity index futures and options contracts and OTC European CDS instruments	ICE Futures Europe, ICE Futures U.S., ICE Endex, ICE Futures Abu Dhabi and third-party venues	U.K.
ICE Clear U.S.	Agricultural, metals, foreign exchange, or FX, interest rate, equity index and digital asset futures and/or options contracts	ICE Futures U.S.	U.S.
ICE Clear Credit	OTC North American, European, Asian-Pacific and Emerging Market CDS instruments	Creditex and third-party venues	U.S.
ICE Clear Netherlands	Derivatives on equities and equity indices traded on regulated markets	ICE Endex	The Netherlands
ICE Clear Singapore	Energy, metals and financial futures products and digital assets futures contracts	ICE Futures Singapore	Singapore
ICE NGX	Physical North American natural gas and electricity	ICE NGX	Canada

In June 2022, we announced our decision to cease our CDS clearing service at ICE Clear Europe, our clearing house in the U.K., and our CDS clearing offering will therefore be consolidated at our ICE Clear Credit clearing house in the U.S.

Original and Variation Margin

Each of the ICE Clearing Houses generally requires all Members to deposit collateral in cash or certain pledged assets. The collateral deposits are known as "original margin." In addition, the ICE Clearing Houses may make intraday original margin calls in circumstances where market conditions require additional protection. The daily profits and losses to and from the ICE Clearing Houses due to the marking-to-market of open contracts is known as "variation margin." With the exception of ICE NGX's physical natural gas and physical power products discussed separately below, the ICE Clearing Houses mark all outstanding contracts to market, and therefore pay and collect variation margin, at least once daily.

The amounts that Members are required to maintain are determined by proprietary risk models established by each ICE Clearing House and reviewed by the relevant regulators, independent model validators, risk committees and the boards of directors of the respective ICE Clearing House. The amounts required may fluctuate over time. Each of the ICE Clearing Houses is a separate legal entity and is not subject to the liabilities of the others, or the obligations of Members of the other ICE Clearing Houses.

Should a particular Member fail to deposit its original margin or fail to make a variation margin payment, when and as required, the relevant ICE Clearing House may liquidate or hedge the defaulting Member's open positions and use their original margin and guaranty fund deposits to pay any amount owed. In the event that the defaulting Member's deposits are not sufficient to pay the amount owed in full, the ICE Clearing Houses will first use their respective contributions to the guaranty fund, often referred to as Skin In The Game, or SITG, to pay any remaining amount owed. In the event that the SITG is not sufficient, the ICE Clearing Houses may utilize the respective guaranty fund deposits and default insurance, or collect limited additional funds from their respective non-defaulting Members on a pro-rata basis, to pay any remaining amount owed.

As of June 30, 2022 and December 31, 2021, the ICE Clearing Houses had received or had been pledged \$270.8 billion and \$239.9 billion, respectively, in cash and non-cash collateral in original margin and guaranty fund deposits to cover price movements of underlying contracts for both periods.

Guaranty Funds and ICE Contribution

As described above, mechanisms have been created, called guaranty funds, to provide partial protection in the event of a Member default. With the exception of ICE NGX, each of the ICE Clearing Houses requires that each Member make deposits into a guaranty fund.

In addition, we have contributed our own capital that could be used if a defaulting Member's original margin and guaranty fund deposits are insufficient. Such amounts are recorded as long-term restricted cash and cash equivalents in our balance sheets and are as follows (in millions):

	ICE Portion of Guaranty Fu	und Contribution	Default insurance					
Clearing House	As of June 30, 2022	As of December 31, 2021	As of June 30, 2022	As of December 31, 2021				
ICE Clear Europe	\$247	\$247	\$75	\$75				
ICE Clear U.S.	90	83	25	25				
ICE Clear Credit	50	50	50	50				
ICE Clear Netherlands	2	2	N/A	N/A				
ICE Clear Singapore	1	1	N/A	N/A				
ICE NGX	15	15	200	100				
Total	\$405	\$398	\$350	\$250				

Of our total contribution to ICE Clear U.S. above, as of June 30, 2022, \$15 million was solely applicable to any losses associated with a default in Bitcoin contracts and other digital assets that ICE Clear U.S. may clear in the future.

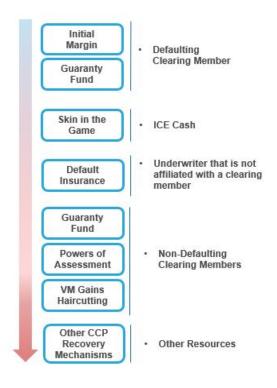
We also maintain default insurance as an additional layer of clearing member default protection. The default insurance was added in September 2019 and has a three-year term for the following clearing houses in the following amounts: ICE Clear Europe - \$75 million; ICE Clear U.S. - \$25 million and ICE Clear Credit - \$50 million. The default insurance layer resides after and in addition to the ICE Clear Europe, ICE Clear U.S. and ICE Clear Credit SITG contributions and before the guaranty fund contributions of the non-defaulting Members. Renewal is currently being pursued and is subject to availability, cost and risk coverage considerations.

Similar to SITG, the default insurance layer is not intended to replace or reduce the position risk-based amount of the guaranty fund. As a result, the default insurance layer is not a factor that is included in the calculation of the Members' guaranty fund contribution requirement. Instead, it serves as an additional, distinct, and separate default resource that should serve to further protect the non-defaulting Members' guaranty fund contributions from being mutualized in the event of a default.

As of June 30, 2022, ICE NGX maintained a guaranty fund of \$215 million, comprising \$15 million in cash and a \$200 million letter of credit backed by a default insurance policy of the same amount, discussed below.

Below you will find our Default Waterfall which summarizes the lines of defense and layers of protection we maintain at the ICE Clearing Houses.

ICE Clearing House Default Waterfall



Cash and Invested Deposits

We have recorded cash and invested margin and guaranty fund deposits and amounts due in our balance sheets as current assets with corresponding current liabilities to the Members. As of June 30, 2022, our cash and invested margin and guaranty fund deposits were as follows (in millions):

			ICE Clear Credit ICE Clear U.S.			IC	E NGX	Other ICE Clearing Houses	Total		
Original margin	\$ 98,940	\$	52,031	\$	4,788	\$		\$ 4	\$ 155,763		
Unsettled variation margin, net	_		_		_		841	_	841		
Guaranty fund	3,940		4,942		614		_	4	9,500		
Delivery contracts receivable/payable, net	_		_		_		1,568	_	1,568		
Total	\$ 102,880	\$	56,973	\$	5,402	\$	2,409	\$ 8	\$ 167,672		

As of December 31, 2021, our cash and invested margin and guaranty fund deposits were as follows (in millions):

ICE Clear ICE Clear Europe ⁽²⁾ Credit I		IC	E Clear U.S.	IC	E NGX	(Clearing		Total	
\$ 94,010	\$	39,372	\$	6,963	\$		\$	27	\$	140,372
_		_		_		226		_		226
4,175		3,952		597		_		4		8,728
_		_		_		1,103		_		1,103
\$ 98,185	\$	43,324	\$	7,560	\$	1,329	\$	31	\$	150,429
	\$ 94,010 	\$ 94,010 \$	Europe (2) Credit \$ 94,010 \$ 39,372 — — 4,175 3,952 — —	Europe (2) Credit IC \$ 94,010 \$ 39,372 \$ — — — 4,175 3,952 — — — —	Europe (2) Credit ICE Clear U.S. \$ 94,010 \$ 39,372 \$ 6,963	Europe (2) Credit ICE Clear U.S. ICE \$ 94,010 \$ 39,372 \$ 6,963 \$	Europe (2) Credit ICE Clear U.S. ICE NGX \$ 94,010 \$ 39,372 \$ 6,963 \$ —	ICE Clear Europe (2) ICE Clear Credit ICE Clear U.S. ICE NGX \$ 94,010 \$ 39,372 \$ 6,963 \$ — \$ — — — 226 4,175 3,952 597 — — — 1,103	Europe (2) Credit ICE Clear U.S. ICE NGX Houses \$ 94,010 \$ 39,372 \$ 6,963 \$ — \$ 27 — — — 226 — 4,175 3,952 597 — 4 — — 1,103 —	ICE Clear Europe (2) ICE Clear Credit ICE Clear U.S. ICE NGX Clearing Houses \$ 94,010 \$ 39,372 \$ 6,963 \$ — \$ 27 \$ — — — 226 — — 4,175 3,952 597 — 4 — — 1,103 — —

 $^{^{(1)}}$ \$95.0 billion and \$7.9 billion is related to futures/options and CDS, respectively.

Our cash and invested margin and guaranty fund deposits are maintained in accounts with national banks and highly-rated financial institutions or secured through direct investments, primarily in U.S. Treasury and other highly-rated foreign government securities, or reverse repurchase agreements with primarily overnight maturities. We primarily use Level 1 inputs when evaluating the fair value of the non-cash equivalent direct investments, as highly-rated government securities are quoted in active markets. The carrying value of these deposits is deemed to approximate fair value.

To provide a tool to address the liquidity needs of our clearing houses and manage the liquidation of margin and guaranty fund deposits held in the form of cash and high quality sovereign debt, ICE Clear Europe, ICE Clear Credit and ICE Clear U.S. have entered into Committed Repurchase Agreement Facilities, or Committed Repo. Additionally, ICE Clear Credit and ICE Clear Netherlands have entered into Committed FX Facilities to support these liquidity needs. As of June 30, 2022, the following facilities were in place:

- ICE Clear Europe: \$1.0 billion in Committed Repo to finance U.S. dollar, euro and pound sterling deposits.
- ICE Clear Credit: \$300 million in Committed Repo (U.S. dollar based) to finance U.S. dollar denominated sovereign debt and euro deposits, €250 million in Committed Repo (euro based) to finance euro and U.S. dollar denominated sovereign debt deposits, and €1.9 billion in Committed FX Facilities to finance euro payment obligations.
- ICE Clear U.S.: \$250 million in Committed Repo to finance U.S. dollar denominated sovereign debt deposits.
- ICE Clear Netherlands: €10 million in Committed FX Facilities to finance euro payment obligations.

^{(2) \$92.0} billion and \$6.2 billion is related to futures/options and CDS, respectively.

Details of our deposits are as follows (in millions):

Cash and Cash Equivalent Margin Deposits and Guaranty Funds

Clearing House	Investment Type	As of	June 30, 2022	As of December 31, 2021
ICE Clear Europe	National bank account (1)	\$	37,983	\$ 59,948
ICE Clear Europe	Reverse repo		45,717	25,518
ICE Clear Europe	Sovereign debt		16,450	9,324
ICE Clear Europe	Demand deposits		1,949	231
ICE Clear Credit	National bank account		48,446	37,282
ICE Clear Credit	Reverse repo		4,606	3,639
ICE Clear Credit	Demand deposits		3,921	2,403
ICE Clear U.S.	Reverse repo		4,929	6,485
ICE Clear U.S.	Sovereign Debt		474	1,075
Other ICE Clearing Houses	Demand deposits		8	31
Total cash and cash equivalent margin deposit	s and guaranty funds	\$	164,483	\$ 145,936

Clearing House	Investment Type	As of June 30, 2022	As of December 31, 2021
ICE NGX	Unsettled variation margin and delivery contracts receivable/payable	2,409	1,329
ICE Clear Europe	Invested deposits - sovereign debt	780	3,164
Total invested deposits, delivery contract	s receivable and unsettled variation margin	\$ 3,189	\$ 4,493

⁽¹) As of June 30, 2022, ICE Clear Europe held €32.7 billion (\$34.3 billion based on the euro/U.S. dollar exchange rate of 1.0483 as of June 30, 2022) at the European Central Bank, or ECB, £3.0 billion (\$3.7 billion based on the pound sterling/U.S. dollar exchange rate of 1.2178 as of June 30, 2022) at the Bank of England, or BOE, and €10 million (\$10 million based on the above exchange rate) at the BOE. As of December 31, 2021, ICE Clear Europe held €47.2 billion (\$53.7 billion based on the euro/U.S. dollar exchange rate of 1.1372 as of December 31, 2021) at ECB, £1.7 billion (\$2.3 billion based on the pound sterling/U.S. dollar exchange rate of 1.3524 as of December 31, 2021), as well as \$4.0 billion at the BOE, and €10 million (\$11 million based on the above exchange rate) at the BOE.

Other Deposits

Non-cash original margin and guaranty fund deposits are not reflected in the accompanying consolidated balance sheets as the risks and rewards of these assets remain with the clearing members unless the clearing houses have sold or re-pledged the assets or in the event of a clearing member default, where the clearing member is no longer entitled to redeem the assets. Any income, gain or loss accrues to the clearing members.

In addition to the cash and invested deposits above, the ICE Clearing Houses have also received other assets from Members, which include government obligations, and may include other non-cash collateral such as letters of credit at ICE NGX, or gold on rare occasions at ICE Clear Europe, to mitigate credit risk. For certain deposits, we may impose discount or "haircut" rates to ensure adequate collateral if market values fluctuate. The value-related risks and rewards of these assets remain with the Members. Any gain or loss accrues to the Member. The ICE Clearing Houses do not, in the ordinary course, rehypothecate or re-pledge these assets. These pledged assets are not reflected in our balance sheets, and are as follows (in millions):

	As of June 30, 2022										
	ICE Clear Europe		ICE Clear Credit		ICE Clear U.S.		. ICE NGX			Total	
Original margin:											
Government securities at face value	\$	71,965	\$	8,904	\$	15,141	\$	_	\$	96,010	
Letters of credit		_		_		_		4,420		4,420	
ICE NGX cash deposits		_		_		_		1,595		1,595	
Total	\$	71,965	\$	8,904	\$	15,141	\$	6,015	\$	102,025	
Guaranty fund:									_		
Government securities at face value	\$	612	\$	248	\$	260	\$		\$	1,120	

	As of December 31, 2021									
	ICE Clear Europe		ICE Clear Credit		ICE Clear U.S.		. ICE NGX			Total
Original margin:				_		_				_
Government securities at face value	\$	58,156	\$	8,425	\$	17,211	\$	_	\$	83,792
Letters of credit		_		_		_		3,566		3,566
ICE NGX cash deposits		_		_		_		987		987
Total	\$	58,156	\$	8,425	\$	17,211	\$	4,553	\$	88,345
Guaranty fund:										
Government securities at face value	\$	740	\$	152	\$	273	\$		\$	1,165

of Documber 24, 2024

ICE NGX

ICE NGX owns a clearing house which primarily administers the physical delivery of energy trading contracts. ICE NGX is the central counterparty to Members on opposite sides of its physically-settled contracts, and the balance related to delivered but unpaid contracts is recorded as a delivery contract net receivable, with an offsetting delivery contract net payable in our balance sheets. Unsettled variation margin equal to the fair value of open contracts is recorded as of each balance sheet date. There is no impact on our consolidated statements of income as an equal amount is recognized as both an asset and a liability. ICE NGX marks all its outstanding physical natural gas and physical power contracts to market daily, but only collects variation margin when a Member's open position falls outside a specified percentage of its pledged collateral. Due to the highly liquid nature and the short period of time to maturity, the fair values of our delivery contract net payable and net receivable are determined to approximate carrying value.

ICE NGX requires Members to maintain cash or letters of credit to serve as collateral in the event of default. The cash is maintained in a segregated bank account for the benefit of the Member, and remains the property of the Member, therefore, it is not included in our balance sheets. ICE NGX maintains a committed daylight-overnight liquidity facility in the amount of \$100 million with an additional \$150 million uncommitted with a third-party Canadian chartered bank which provides liquidity in the event of a settlement shortfall, subject to certain conditions.

During the six months ended June 30, 2022, NGX increased its default insurance by \$100 million, and as of June 30, 2022, ICE NGX maintains a guaranty fund of \$215 million funded by a \$200 million letter of credit issued by a major Canadian chartered bank, and backed by default insurance underwritten by Export Development Canada, or EDC, a Crown corporation operated at arm's length from the Canadian government, plus \$15 million held as restricted cash to fund the first loss amount that ICE NGX is responsible for under the default insurance policy. In the event of a participant default where the Member's collateral is depleted, the shortfall would be covered by a draw down on the letter of credit following which ICE NGX would file a claim under the default insurance to recover additional losses up to \$200 million beyond the \$15 million first-loss amount that ICE NGX is responsible for under the default insurance policy.

Clearing House Exposure

The net notional value of unsettled contracts was \$2.7 trillion as of June 30, 2022. Each ICE Clearing House bears financial counterparty credit risk and provides a central counterparty guarantee, or performance guarantee, to its Members. To reduce their exposure, the ICE Clearing Houses have a risk management program with both initial and ongoing membership standards. Excluding the effects of original and variation margin, guaranty fund and collateral requirements and default insurance, the ICE Clearing Houses' maximum estimated exposure for this guarantee is \$231.5 billion as of June 30, 2022, which represents the maximum estimated value by the ICE Clearing Houses of a hypothetical one-day movement in pricing of the underlying unsettled contracts. This value was determined using proprietary risk management software that simulates gains and losses based on historical market prices, volatility and other factors present at that point in time for those particular unsettled contracts. Future actual market price volatility could result in the exposure being significantly different than this amount.

13. Legal Proceedings

In the ordinary course of our business, from time to time we are subject to legal proceedings, lawsuits, government investigations and other claims with respect to a variety of matters. In addition, we are subject to periodic reviews, inspections, examinations and investigations by regulators in the U.S. and other jurisdictions, any of which may result in claims, legal proceedings, assessments, fines, penalties, restrictions on our business or other sanctions. We record estimated expenses and reserves for legal or regulatory matters or other claims when these matters present loss contingencies that are probable and the related amount is reasonably estimable. Any such accruals may be adjusted as circumstances change. Assessments of losses are inherently subjective and involve unpredictable factors. While the

outcome of legal and regulatory matters is inherently difficult to predict and/or the range of loss often cannot be reasonably estimable, we do not believe that the liabilities, if any, which may ultimately result from the resolution of the various legal and regulatory matters that arise in the ordinary course of our business, including the matters described below and those described in Note 15 to the consolidated financial statements in Part II, Item 8 of our 2021 Form 10-K, are likely to have a material adverse effect on our consolidated financial condition, results of operations, or liquidity. It is possible, however, that future results of operations for any particular quarterly or annual period could be materially and adversely affected by any developments relating to these legal and regulatory matters. A range of possible losses related to certain cases cannot be reasonably estimated at this time, except as otherwise disclosed below and in Note 15 to the consolidated financial statements in Part II, Item 8 of our 2021 Form 10-K. Individual matter disclosures in this Form 10-Q are limited to new significant matters or significant updates on existing matters since our most recent Form 10-K.

City of Providence Litigation

On March 28, 2022, the district court entered an order granting the defendant exchanges' (including New York Stock Exchange LLC and NYSE Arca, Inc., two of our subsidiaries) motion for summary judgment on the ground that the plaintiffs lack standing under Article III of the U.S. Constitution, and dismissing without prejudice the plaintiffs' claims on this basis. Among other things, the district court found that the plaintiffs failed to show that they have been injured and that, even putting aside this defect, the plaintiffs failed to produce evidence from which a jury could reasonably conclude that they suffered an injury traceable to any conduct of the exchanges. The district court also held that the opinions of the plaintiffs' principal expert witness in this matter were fundamentally flawed and unreliable, and therefore inadmissible. In light of these holdings, the district court denied as moot the plaintiffs' motion for class certification and the exchanges' motion for summary judgment on the basis of preclusion. On April 25, 2022, the plaintiffs filed a notice of appeal of the district court's dismissal order. Effective as of June 6, 2022, the parties to the litigation executed settlement agreements pursuant to which, among other things, the plaintiffs withdrew their appeal with prejudice and provided the defendants a covenant not to sue (and additionally provided the NYSE and Cboe Global Markets, Inc. defendants a release of claims). No monetary payment was made by the defendants. The settlement agreements and dismissal of the appeal constitute the final resolution of this matter.

LIBOR Litigation

On February 14, 2022, the U.S. Court of Appeals for the Second Circuit, or the Second Circuit, issued a decision in the appeal of the March 2020 dismissal of the underlying complaint against the defendants, which include ICE and several of our subsidiaries. In its decision, the Second Circuit dismissed the appeal for lack of jurisdiction, holding that DYJ Holdings, LLC, the sole entity attempting to pursue the appeal, lacked standing to do so. The dismissal of the appeal constitutes the final resolution of this matter.

ICE Data Pricing & Reference Data Matter

As of April 28, 2022, our subsidiary ICE Data Pricing & Reference Data, LLC, or PRD, resolved the last known remaining claim of a Live Well Financial, Inc., or Live Well, financial institution creditor relating to PRD's legacy business practices with respect to broker quotes received from Live Well. With the resolution of this putative claim, there are no known unresolved assertions of liability against PRD relating to broker quotes PRD received from Live Well.

For further information on our legal and regulatory matters, please see Note 15 to the consolidated financial statements in Part II, Item 8 of our 2021 Form 10-K.

14. Fair Value Measurements

Fair value is the price that would be received from selling an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Our financial instruments consist primarily of certain short-term and long-term assets and liabilities, customer accounts receivable, margin deposits and guaranty funds, equity and equity method investments, and short-term and long-term debt.

The fair value of our financial instruments is measured based on a three-level hierarchy:

- Level 1 inputs quoted prices for identical assets or liabilities in active markets.
- Level 2 inputs observable inputs other than Level 1 inputs such as quoted prices for similar assets and liabilities in active markets or inputs other than quoted prices that are directly observable.
- Level 3 inputs unobservable inputs supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

Financial assets and liabilities recorded or disclosed at fair value in the accompanying consolidated balance sheets as of June 30, 2022 and December 31, 2021 were classified in their entirety based on the lowest level of input that is significant to the asset or liability's fair value measurement.

Our mutual funds are equity and fixed income mutual funds held for the purpose of providing future payments for our supplemental executive savings plan and the supplemental executive retirement plan. These mutual funds are classified as equity investments and measured at fair value using Level 1 inputs with adjustments recorded in net income.

The fair values of all other financial instruments are determined to materially approximate carrying value due to the short period of time to their maturities.

We did not use Level 3 inputs to determine the fair value of assets or liabilities measured at fair value on a recurring basis as of June 30, 2022 or December 31, 2021.

We measure certain assets, such as intangible assets and equity method investments, at fair value on a non-recurring basis. These assets are recognized at fair value if they are deemed to be impaired. As of June 30, 2022, none of our intangible assets were required to be recorded at fair value since no impairments were recorded.

We measure certain equity investments at fair value on a non-recurring basis using our policy election under ASU 2016-01. During the six months ended June 30, 2022, we evaluated these investments and concluded that no fair value adjustments were required under this election related to these investments.

See Note 12 for the fair value considerations related to our margin deposits, guaranty funds and delivery contracts receivable.

The table below displays the fair value of our debt as of June 30, 2022. The fair values of our fixed rate notes were estimated using quoted market prices for these instruments. The fair value of other short-term debt approximates par value since the interest rates on this short-term debt approximate market rates as of June 30, 2022.

As of June 30 2022

		As of June (in milli	,	122
Debt:	Carry	ring Amount		Fair value
Other short-term debt	\$	4	\$	4
2025 Senior Notes (3.65% senior unsecured notes due May 23, 2025)		1,242		1,242
2025 Senior Notes (3.75% senior unsecured notes due December 1, 2025)		1,247		1,241
2027 Senior Notes (4.00% senior unsecured notes due September 15, 2027)		1,485		1,477
2027 Senior Notes (3.10% senior unsecured notes due September 15, 2027)		497		473
2028 Senior Notes (3.75% senior unsecured notes due September 21, 2028)		594		577
2029 Senior Notes (4.35% senior unsecured notes due June 15, 2029)		1,239		1,234
2030 Senior Notes (2.10% senior unsecured notes due June 15, 2030)		1,235		1,048
2032 Senior Notes (1.85% senior unsecured notes due September 15, 2032)		1,484		1,176
2033 Senior Notes (4.60% senior unsecured notes due March 15, 2033)		1,487		1,492
2040 Senior Notes (2.65% senior unsecured notes due September 15, 2040)		1,230		919
2048 Senior Notes (4.25% senior unsecured notes due September 21, 2048)		1,231		1,118
2050 Senior Notes (3.00% senior unsecured notes due June 15, 2050)		1,221		913
2052 Senior Notes (4.95% senior unsecured notes due June 15, 2052)		1,463		1,478
2060 Senior Notes (3.00% senior unsecured notes due September 15, 2060)		1,471		1,018
2062 Senior Notes (5.20% senior unsecured notes due June 15, 2062)		983		1,000
Total debt	\$	18,113	\$	16,410

15. Segment Reporting

Our business is conducted through three reportable business segments, comprised of the following:

 In our Exchanges segment, we operate regulated marketplaces for the listing, trading and clearing of a broad array of derivatives contracts and financial securities;

- In our Fixed Income and Data Services segment, we provide fixed income pricing, reference data, indices, analytics and execution services as well as global CDS clearing and multi-asset class data delivery solutions; and
- In our Mortgage Technology segment, we provide an end-to-end technology platform that offers customers comprehensive, digital workflow tools that aim to address the inefficiencies that exist in the U.S. residential mortgage market, from application through closing and the secondary market.

While revenues are recorded specifically in the segment in which they are earned or to which they relate, a significant portion of our operating expenses are not solely related to a specific segment because the expenses serve functions that are necessary for the operation of more than one segment. We directly allocate expenses when reasonably possible to do so. Otherwise, we use a pro-rata revenue approach as the allocation method for the expenses that do not relate solely to one segment and serve functions that are necessary for the operation of all segments.

Our chief operating decision maker does not review total assets or statements of income below operating income by segments; therefore, such information is not presented below. Our three segments do not engage in intersegment transactions.

Financial data for our business segments is as follows for the six months and three months ended June 30, 2022 and 2021 (in millions):

	Six Months Ended June 30, 2022									
	Ex	changes	Fi	ixed Income and Data Services	Mortgage Technology	Consolidated				
Revenues:										
Energy futures and options	\$	618	\$	_	\$ —	\$ 618				
Agricultural and metals futures and options		122		_	_	122				
Financial futures and options		253		_	_	253				
Cash equities and equity options		1,357		_	_	1,357				
OTC and other		205		_	_	205				
Data and connectivity services		432		_	_	432				
Listings		260		_	_	260				
Fixed income execution		_		40	_	40				
CDS clearing		_		138	_	138				
Fixed income data and analytics		_		551	_	551				
Other data and network services		_		292	_	292				
Origination technology		_		_	399	399				
Closing solutions		_		_	134	134				
Data and analytics		_		_	44	44				
Other		_		_	27	27				
Revenues	_	3,247		1,021	604	4,872				
Transaction-based expenses		1,159		_	_	1,159				
Revenues, less transaction-based expenses		2,088		1,021	604	3,713				
Operating expenses		603		692	557	1,852				
Operating income	\$	1,485	\$	329	\$ 47	\$ 1,861				

Civ	Months	Endod	luno	20	2021
- SIX	MOTITIES	: =naea	June	SU.	ZUZT

	Exch	anges	Fixed Inco and Dat Service	l Data Mortgage		Consolidated	
Revenues:							
Energy futures and options	\$	584	\$	_ :	\$ —	\$	584
Agricultural and metals futures and options		121		_	_		121
Financial futures and options		188		_	_		188
Cash equities and equity options		1,246		_	_		1,246
OTC and other		155		_	_		155
Data and connectivity services		415		_	_		415
Listings		233		_	_		233
Fixed income execution		_		27	_		27
CDS clearing		_		93	_		93
Fixed income data and analytics		_		532	_		532
Other data and network services		_		274	_		274
Origination technology		_		_	495		495
Closing solutions		_		_	139		139
Data and analytics		_		_	36		36
Other		_		_	25		25
Revenues		2,942		926	695		4,563
Transaction-based expenses		1,059		_	_		1,059
Revenues, less transaction-based expenses		1,883		926	695	-	3,504
Operating expenses		647		672	494		1,813
Operating income	\$	1,236	\$	254	\$ 201	\$	1,691

Three Months Ended June 30, 2022

	Excl	hanges	Fixed Income and Data Services		Mortgage Technology	Consolidated	
Revenues:							
Energy futures and options	\$	265	\$	_	\$ —	\$ 265	
Agricultural and metals futures and options		61		_	_	61	
Financial futures and options		123		_	_	123	
Cash equities and equity options		698		_	_	698	
OTC and other		108		_	_	108	
Data and connectivity services		218		_	_	218	
Listings		131		_	_	131	
Fixed income execution		_		25	_	25	
CDS clearing		_		66	_	66	
Fixed income data and analytics		_		274	_	274	
Other data and network services		_		147	_	147	
Origination technology		_		_	196	196	
Closing solutions		_		_	64	64	
Data and analytics		_		_	24	24	
Other		_		_	13	13	
Revenues		1,604		512	297	2,413	
Transaction-based expenses		599		_	_	599	
Revenues, less transaction-based expenses		1,005		512	297	1,814	
Operating expenses		304		338	303	945	
Operating income/(loss)	\$	701	\$	174	\$ (6)	\$ 869	

		Three Months Ended June 30, 2021							
	Exchanges			xed Income and Data Services	Mortgage Technology		(Consolidated	
Revenues:									
Energy futures and options	\$	274	\$	_	\$	_	\$	274	
Agricultural and metals futures and options		62		_		_		62	
Financial futures and options		83		_		_		83	
Cash equities and equity options		512		_		_		512	
OTC and other		78		_		_		78	
Data and connectivity services		208		_		_		208	
Listings		119		_		_		119	
Fixed income execution		_		13		_		13	
CDS clearing		_		38		_		38	
Fixed income data and analytics		_		268		_		268	
Other data and network services		_		139		_		139	
Origination technology		_		_		241		241	
Closing solutions		_		_		69		69	
Data and analytics		_		_		18		18	
Other		_		_		12		12	
Revenues		1,336		458		340		2,134	
Transaction-based expenses		427		_		_		427	
Revenues, less transaction-based expenses		909		458		340		1,707	
Operating expenses		326		337		245		908	
Operating income	\$	583	\$	121	\$	95	\$	799	

Revenue from one member of the Exchanges segment comprised \$213 million, or 10%, of our Exchange revenues, less transaction-based expenses for the six months ended June 30, 2022 and no customers or clearing members accounted for more than 10% of our Exchange revenues, less transaction-based expenses during the three months ended June 30, 2022. Revenue from one member of the Exchanges segment comprised \$208 million, or 11%, and \$99 million, or 11%, of our Exchange revenues, less transaction-based expenses for the six months and three months ended June 30, 2021, respectively. Clearing members are primarily intermediaries and represent a broad range of principal trading firms. If a clearing member ceased its operations, we believe that the trading firms would continue to conduct transactions and would clear those transactions through another clearing member firm. No additional customers or clearing members accounted for more than 10% of our segment revenues or consolidated revenues during the six months and three months ended June 30, 2022 or 2021.

16. Earnings Per Common Share

The following is a reconciliation of the numerators and denominators of the basic and diluted earnings per common share computations for the six months and three months ended June 30, 2022 and 2021 (in millions, except per share amounts):

Six Months Ended June 30,			Three Months Ended June 30,			
2022 2		2021	2022		2021	
\$	1,212	\$	1,898 \$	555	\$	1,252
	560		562	558		563
\$	2.17	\$	3.38 \$	0.99	\$	2.23
	560		562	558		563
	2		3	2		2
	562		565	560		565
\$	2.16	\$	3.36 \$	0.99	\$	2.22
	\$ \$	\$ 1,212 560 \$ 2.17 560 2 562	\$ 1,212 \$ 560 \$ 2.17 \$ 562	2022 2021 \$ 1,212 \$ 1,898 \$ 560 562 \$ 2.17 \$ 3.38 \$ 560 562 2 3 562 565	2022 2021 2022 \$ 1,212 \$ 1,898 \$ 555 560 562 558 \$ 2.17 \$ 3.38 0.99 560 562 558 2 3 2 562 565 560	2022 2021 2022 \$ 1,212 \$ 1,898 \$ 555 \$ 560 \$ 558 \$ 562 \$ 558 \$ 562 \$ 2.17 \$ 3.38 \$ 0.99 \$ \$ 560 \$ 562 558 \$ 560

Basic earnings per common share is calculated using the weighted average common shares outstanding during the period.

Common equivalent shares from stock options and restricted stock awards, calculated using the treasury stock method, are included in the diluted per share calculations unless the effect of their inclusion would be antidilutive. During the six months ended June 30, 2022 and 2021, 1 million and 0.3 million outstanding stock options and restricted stock awards, respectively, were not included in the computation of diluted earnings per common share, because to do so would have had an antidilutive effect. In addition, for the six months ended June 30, 2021, we excluded warrants and preferred and common incentive units under the Bakkt Equity Incentive Plan because they were also antidilutive. Certain figures in the table above may not recalculate due to rounding.

17. Subsequent Events

We have evaluated subsequent events, and determined that no events or transactions met the definition of a subsequent event for purposes of recognition or disclosure in the accompanying consolidated financial statements.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

In this Quarterly Report on Form 10-Q, or Quarterly Report, and unless otherwise indicated, the terms "Intercontinental Exchange," "ICE," "we," "us," "our," "our company" and "our business" refer to Intercontinental Exchange, Inc., together with its consolidated subsidiaries. All references to "options" or "options contracts" in the context of our futures products refer to options on futures contracts. Solely for convenience, references in this Quarterly Report to any trademarks, service marks and trade names owned by ICE are listed without the ®, ™ and © symbols, but we will assert, to the fullest extent under applicable law, our rights to these trademarks, service marks and trade names.

We also include references to third-party trademarks, trade names and service marks in this Quarterly Report. Except as otherwise expressly noted, our use or display of any such trademarks, trade names or service marks is not an endorsement or sponsorship and does not indicate any relationship between us and the parties that own such marks and names.

The following discussion should be read in conjunction with our consolidated financial statements and related notes included elsewhere in this Quarterly Report. Due to rounding, figures in tables may not sum exactly.

Forward-Looking Statements

This Quarterly Report, including the sections entitled "Notes to Consolidated Financial Statements," "Legal Proceedings" and "Management's Discussion and Analysis of Financial Condition and Results of Operations," contains "forward-looking statements" as defined in the Private Securities Litigation Reform Act of 1995. Any statements contained herein that are not statements of historical fact may be forward-looking statements.

These forward-looking statements relate to future events or our future financial performance and are based on our present beliefs and assumptions as well as the information currently available to us. They involve known and unknown risks, uncertainties and other factors that may cause our results, levels of activity, performance, cash flows, financial position or achievements to differ materially from those expressed or implied by these statements.

Forward-looking statements may be introduced by or contain terminology such as "may," "will," "should," "could," "would," "targets," "goal," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "potential," "continue," or the antonyms of these terms or other comparable terminology. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance, cash flows, financial position or achievements. Accordingly, we caution you not to place undue reliance on any forward-looking statements we may make.

Factors that may affect our performance and the accuracy of any forward-looking statements include, but are not limited to, those listed below:

- conditions in global financial markets, domestic and international economic and social conditions, inflation, political uncertainty and discord, geopolitical events or conflicts, international trade policies and sanctions laws;
- the impact of the introduction of or any changes in laws, regulations, rules or government policies with respect to financial markets, climate change, increased regulatory scrutiny or enforcement actions and our ability to comply with these requirements;
- volatility in commodity prices and equity prices, and price volatility of financial benchmarks and instruments such as interest rates, credit spreads, equity indices, foreign exchange rates, and mortgage origination trends;
- the impact of climate change and the transition to renewable energy and a net zero economy;
- the business environment in which we operate and trends in our industry, including trading volumes, prevalence of clearing, demand for data services, mortgage lending activity, fees, changing regulations, competition and consolidation;
- our ability to minimize the risks associated with operating clearing houses in multiple jurisdictions;
- our exchanges' and clearing houses' compliance with their respective regulatory and oversight responsibilities;
- · the resilience of our electronic platforms and soundness of our business continuity and disaster recovery plans;
- our ability to realize the expected benefits of our acquisitions and our investments, including our ability to close the Black Knight acquisition when expected;
- our ability to execute our growth strategy, identify and effectively pursue, implement and integrate acquisitions and strategic alliances
 and realize the synergies and benefits of such transactions within the expected time frame;
- the performance and reliability of our trading, clearing and mortgage technologies and those of third-party service providers;
- · our ability to keep pace with technological developments and client preferences;

- our ability to ensure that the technology we utilize is not vulnerable to cyberattacks, hacking and other cybersecurity risks or other disruptive events or to minimize the impact of any such events;
- our ability to keep information and data relating to the customers of the users of the software and services provided by our ICE Mortgage Technology business confidential;
- the impacts of the COVID-19 pandemic on our business, results of operations and financial condition as well as the broader business environment;
- our ability to identify trends and adjust our business to benefit from such trends, including trends in the U.S. mortgage industry such as inflation rates, interest rates, new home purchases, refinancing activity, and home builder and buyer sentiment, among others;
- our ability to evolve our benchmarks and indices in a manner that maintains or enhances their reliability and relevance;
- the accuracy of our cost and other financial estimates and our belief that cash flows from operations will be sufficient to service our debt and to fund our operational and capital expenditure needs;
- our ability to incur additional debt and pay off our existing debt in a timely manner;
- our ability to maintain existing market participants and data and mortgage technology customers, and to attract new ones;
- our ability to offer additional products and services, leverage our risk management capabilities and enhance our technology in a timely and cost-effective fashion;
- our ability to attract, develop and retain key talent;
- our ability to protect our intellectual property rights and to operate our business without violating the intellectual property rights of others;
- potential adverse results of threatened or pending litigation and regulatory actions and proceedings.

These risks and other factors include, among others, those set forth in Part 1, Item 1(A) under the caption "Risk Factors" in our 2021 Form 10-K, as filed with the SEC on February 3, 2022. Due to the uncertain nature of these factors, management cannot assess the impact of each factor on the 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.

Any forward-looking statement speaks only as of the date on which such statement is made, and we undertake no obligation to update any of these statements to reflect events or circumstances occurring after the date of this Quarterly Report. New factors may emerge and it is not possible to predict all factors that may affect our business and prospects.

Overview

We are a provider of market infrastructure, data services and technology solutions to a broad range of customers including financial institutions, corporations and government entities. Our products, which span major asset classes including futures, equities, fixed income and U.S. residential mortgages, provide our customers with access to mission critical tools that are designed to increase asset class transparency and workflow efficiency. While we report our results in three reportable business segments, we operate as one business, leveraging the collective expertise, particularly in data services and technology, that exists across our platforms to inform and enhance our operations.

- In our Exchanges segment, we operate regulated marketplaces for the listing, trading and clearing of a broad array of derivatives contracts and financial securities.
- In our Fixed Income and Data Services segment, we provide fixed income pricing, reference data, indices, analytics and execution services as well as global CDS clearing and multi-asset class data delivery solutions.
- In our Mortgage Technology segment, we provide an end-to-end technology platform that offers customers comprehensive, digital workflow tools that aim to address the inefficiencies that exist in the U.S. residential mortgage market, from application through closing and the secondary market.

Recent Developments

Pending Acquisition of Black Knight, Inc.

On May 4, 2022, we announced that we had entered into a definitive agreement to acquire Black Knight, Inc., or Black Knight, a software, data and analytics company that serves the housing finance continuum, including real estate data, mortgage lending and servicing, as well as the secondary markets. Pursuant to the merger agreement, Sub will merge with and into Black Knight, with Black Knight surviving as a wholly owned subsidiary of ICE. As of May 4, 2022, the transaction was valued at approximately \$13.1 billion, or \$85 per share of Black Knight common stock, with cash comprising 80% of the value of the aggregate transaction consideration and shares of our common stock comprising 20% of the value of the aggregate transaction consideration at that time. The aggregate cash component of the transaction

consideration is fixed at \$10.5 billion, and the value of the aggregate stock component of the transaction consideration will fluctuate with the market price of our common stock and will be determined based on the average of the volume weighted averages of the trading prices of our common stock on each of the ten consecutive trading days ending three trading days prior to the closing of the merger. This transaction builds on our position as a provider of end-to-end electronic workflow solutions for the rapidly evolving U.S. residential mortgage industry.

Black Knight provides a comprehensive and integrated ecosystem of software, data and analytics solutions serving the real estate and housing finance markets. We believe the Black Knight ecosystem adds value for clients of all sizes across the mortgage and real estate lifecycles by helping organizations lower costs, increase efficiencies, grow their businesses, and reduce risk.

The transaction is expected to close in the first half of 2023, following the receipt of regulatory approvals and the satisfaction of customary closing conditions. On July 22, 2022, we filed an amended preliminary proxy statement/prospectus on Form S-4 with the SEC, which is undergoing review by the SEC.

Conflict in Ukraine

Our results of operations are affected by global economic conditions, including macroeconomic conditions and geopolitical events or conflicts. The invasion of Ukraine by Russia and the sanctions and other measures being imposed in response to this conflict have increased the level of economic and political uncertainty. The crisis in Russia, Belarus and Ukraine began in February 2022 and continues as of the date of this Quarterly Report. We are in the process of suspending all services in Russia and expect to cease all offerings in Russia by the end of 2022. From an operational perspective, our businesses, including our exchanges, clearing houses, listings venues, data services businesses and mortgage platforms, have not suffered a material negative impact as a result of these events in Ukraine and the surrounding region. We continue to monitor the uncertainty surrounding the extent and duration of this ongoing conflict and the impact that it may have on the global economy and on our business.

Regulation

Our activities and the markets in which we operate are subject to regulations that impact us as well as our customers, and, in turn, meaningfully influence our activities, the manner in which we operate and our strategy. We are primarily subject to the jurisdiction of regulatory agencies in the U.S., U.K., EU, Canada, Singapore and Abu Dhabi. Failure to satisfy regulatory requirements can or may give rise to sanctions by the applicable regulator.

Global policy makers have undertaken reviews of their existing legal framework governing financial markets in connection with regulatory reform, and have either passed new laws and regulations, or are in the process of debating and/or enacting new laws and regulations that apply to our business and to our customers' businesses. Legislative and regulatory actions may impact the way in which we or our customers conduct business and may create uncertainty, which could affect trading volumes or demand for market data. See Part 1, Item 1 "Business - Regulation" and Part 1, Item 1(A) "Risk Factors" included in our 2021 Form 10-K for a discussion of the primary regulations applicable to our business and certain risks associated with those regulations.

Domestic and foreign policy makers continue to review their legal frameworks governing financial markets, and periodically change the laws and regulations that apply to our business and to our customers' businesses. Our key areas of focus on these evolving efforts are:

- Regulatory structure applicable to non-EU clearing houses. On January 1, 2020, the European Markets Infrastructure Regulation, or EMIR 2.2, became effective, which revises the EU's current regulatory and supervisory structure for EU and non-EU clearing houses. The European Securities and Markets Authority, or ESMA, has recognized ICE Clear Europe as a third-country central counterparty, or CCP, under EMIR and determined that it is a Tier 2 CCP on the basis that it is systemically important to the financial stability of the EU or one or more of its Member States. ESMA has recognized all other ICE clearing houses as third-country CCPs and determined that they are Tier 1 CCPs on the basis that they are not systemically-important to the financial stability of the EU or one or more of its Member States. ESMA's continuing implementation of these delegated regulations could still impact one or more of our other non-EU clearing houses. In February 2022, the European Commission extended the temporary equivalence for U.K. CCPs until June 2025. In March 2022, ESMA extended the ICE Clear Europe recognition decision and tiering determination until June 2025 and confirmed the recognition and tiering determination of all other ICE clearing houses.
- Benchmarks Regulation. The Financial Conduct Authority, or FCA, used its legal powers under the U.K. Benchmarks Regulation, or U.K. BMR, to require ICE Benchmark Administration Limited, or IBA, as the administrator of the London Interbank Offered Rate, or LIBOR, to publish certain Sterling and Japanese Yen LIBOR settings under a changed "synthetic" methodology until the end of 2022. Any settings published under a "synthetic" methodology are

no longer considered to be representative of the underlying market or economic reality the setting is intended to measure as those terms are used in the U.K. BMR. The FCA confirmed that it expects that certain U.S. Dollar LIBOR settings will continue to be published on a representative basis until the end of June 2023. In June 2022, the FCA published a consultation on ceasing "synthetic" Sterling LIBOR settings and transitioning away from U.S. Dollar LIBOR. The FCA will continue to consider requiring IBA to publish certain U.S. Dollar LIBOR settings beyond June 30, 2023 under a changed "synthetic" methodology. Usage of the "synthetic" LIBOR and U.S. Dollar LIBOR settings may be restricted or prohibited in certain circumstances under applicable law.

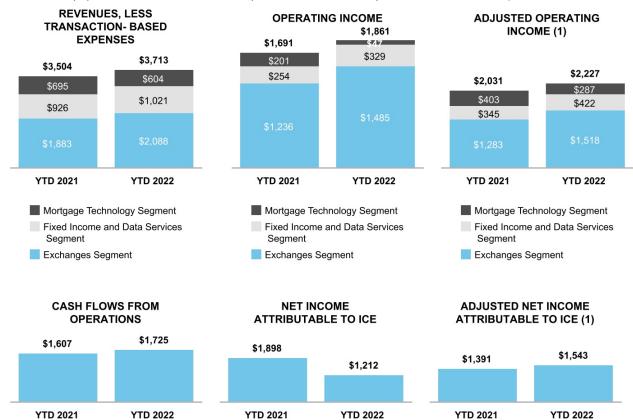
The European Commission used its powers under the EU Benchmarks Regulation, or EU BMR, to designate replacement benchmarks for certain Swiss franc LIBOR settings and the Euro Overnight Index Average, or EONIA, which cover all references to the relevant benchmark. The transition period for the use of benchmarks provided by third-country administrators has been extended until at least December 31, 2023. In May 2022, the European Commission published a consultation on the third-country regime of the EU BMR to prepare for the development of a legislative proposal.

In March 2022, President Biden signed into law federal LIBOR legislation, referred to as the LIBOR Act, designed to reduce uncertainty and economic impacts of the permanent cessation of LIBOR for specified contracts, securities and other agreements that are economically linked to LIBOR. The LIBOR Act provides a statutory framework to replace U.S. Dollar LIBOR with a benchmark rate based on the SOFR for contracts governed by U.S. law that have no fallbacks or fallbacks that would require the use of a poll or LIBOR-based rate.

- Policy intervention to address high energy prices. In March 2022, EU leaders agreed to reduce the EU's dependency on Russian gas, oil and coal imports and invited the European Commission to put forward legislative proposals to ensure security of supply and affordable energy prices. Various options for regulatory intervention have been adopted by the European Commission to allow EU countries to jointly buy strategic reserves of gas. The potential impact of the measures on the functioning of European energy wholesale markets remain uncertain at this time.
- CCP Resolution. In March 2022, the U.K. Treasury published a feedback statement and status update on its plans to enhance the U.K.'s regime for resolution of CCPs in the event that they fail. This is intended to expand the prior regime which was not in line with U.K. Financial Stability Board guidance issued subsequently. Many of the parameters of the new regime have yet to be finalized and will be subject to a consultation process by the Bank of England which will be the resolution authority for CCPs in the U.K. However, they will include increased CCP contributions (known as "second skin in the game") to the default fund.

Consolidated Financial Highlights

The following summarizes our results and significant changes in our consolidated financial performance for the periods presented (dollars in millions, except per share amounts and YTD represents the six-month periods ended June 30th).



⁽¹⁾ The adjusted figures exclude items that are not reflective of our ongoing core operations and business performance. Adjusted net income attributable to ICE is presented net of taxes. These adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

Six Months Ended June 30,									
	2022		2021	Change		2022		2021	Change
\$	3,713	\$	3,504	6 %	\$	1,814	\$	1,707	6 %
\$	1,852	\$	1,715	8 %	\$	931	\$	870	7 %
\$	1,861	\$	1,789	4 %	\$	883	\$	837	6 %
\$	1,852	\$	1,813	2 %	\$	945	\$	908	4 %
\$	1,486	\$	1,473	1 %	\$	740	\$	744	— %
\$	1,861	\$	1,691	10 %	\$	869	\$	799	9 %
\$	2,227	\$	2,031	10%	\$	1,074	\$	963	12%
	50 %	, 0	48 %	2 pts		48 %)	47 %	1 pt
	60 %	0	58 %	2 pt		59 %)	56 %	3 pts
\$	(290)	\$	1,074	(127) %	\$	(130)	\$	1,133	(112) %
\$	338	\$	862	(61) %	\$	173	\$	679	(75) %
	22 %	0	31 %	(9 pts)		23 %)	35 %	(12 pts)
\$	1,212	\$	1,898	(36) %	\$	555	\$	1,252	(56) %
\$	1,543	\$	1,391	11 %	\$	739	\$	657	12 %
\$	2.16	\$	3.36	(36) %	\$	0.99	\$	2.22	(55) %
\$	2.75	\$	2.46	12 %	\$	1.32	\$	1.16	14 %
\$	1,725	\$	1,607	7 %					
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 3,713 \$ 1,852 \$ 1,861 \$ 1,852 \$ 1,486 \$ 1,861 \$ 2,227 \$ 50 % \$ (290) \$ 338 \$ 22 % \$ 1,212 \$ 1,543 \$ 2.16 \$ 2.75	\$ 3,713 \$ \$ 1,852 \$ \$ 1,861 \$ \$ 1,852 \$ \$ 1,486 \$ \$ 1,861 \$ \$ 1,861 \$ \$ 2,227 \$ 50 % 60 % \$ (290) \$ \$ 338 \$ 22 % \$ 1,212 \$ \$ 1,543 \$ \$ \$ 2.16 \$ \$ \$ 2.75 \$	2022 2021 \$ 3,713 \$ 3,504 \$ 1,852 \$ 1,715 \$ 1,861 \$ 1,789 \$ 1,852 \$ 1,813 \$ 1,486 \$ 1,473 \$ 1,861 \$ 1,691 \$ 2,227 \$ 2,031 50% 48% 60% 58% \$ (290) \$ 1,074 \$ 338 \$ 862 22% 31% \$ 1,212 \$ 1,898 \$ 1,543 \$ 1,391 \$ 2.16 \$ 3.36 \$ 2.75 \$ 2.46	2022 2021 Change \$ 3,713 \$ 3,504 6 % \$ 1,852 \$ 1,715 8 % \$ 1,861 \$ 1,789 4 % \$ 1,852 \$ 1,813 2 % \$ 1,486 \$ 1,473 1 % \$ 1,861 \$ 1,691 10 % \$ 2,227 \$ 2,031 10% 50 % 48 % 2 pts 60 % 58 % 2 pt \$ (290) \$ 1,074 (127) % \$ 338 \$ 862 (61) % 22 % 31 % (9 pts) \$ 1,212 \$ 1,898 (36) % \$ 1,543 \$ 1,391 11 % \$ 2.16 \$ 3.36 (36) % \$ 2.75 \$ 2.46 12 %	2022 2021 Change \$ 3,713 \$ 3,504 6 % \$ \$ 1,852 \$ 1,715 8 % \$ \$ 1,861 \$ 1,789 4 % \$ \$ 1,852 \$ 1,813 2 % \$ \$ 1,486 \$ 1,473 1 % \$ \$ 1,861 \$ 1,691 10 % \$ \$ 2,227 \$ 2,031 10% \$ \$ 0 % 48 % 2 pts 60 % 58 % 2 pt \$ (290) \$ 1,074 (127) % \$ \$ 338 \$ 862 (61) % \$ \$ 2 % 31 % (9 pts) \$ 1,212 \$ 1,898 (36) % \$ \$ 1,543 \$ 1,391 11 % \$ \$ 2.16 \$ 3.36 (36) % \$ \$ 2.75 \$ 2.46 12 % \$	2022 2021 Change 2022 \$ 3,713 \$ 3,504 6 % \$ 1,814 \$ 1,852 \$ 1,715 8 % \$ 931 \$ 1,861 \$ 1,789 4 % \$ 883 \$ 1,852 \$ 1,813 2 % \$ 945 \$ 1,486 \$ 1,473 1 % \$ 740 \$ 1,861 \$ 1,691 10 % \$ 869 \$ 2,227 \$ 2,031 10% \$ 1,074 \$ 50 % 48 % 2 pts 48 % \$ 60 % 58 % 2 pt 59 % \$ (290) \$ 1,074 (127) % \$ (130) \$ 338 \$ 862 (61) % \$ 173 \$ 22 % 31 % (9 pts) 23 % \$ 1,212 \$ 1,898 (36) % \$ 555 \$ 1,543 \$ 1,391 11 % \$ 739 \$ 2.16 \$ 3.36 (36) % \$ 0.99 \$ 2.75 \$ 2.46 12 % \$ 1.32	2022 2021 Change 2022 \$ 3,713 \$ 3,504 6 % \$ 1,814 \$ \$ 1,852 \$ 1,715 8 % \$ 931 \$ \$ 1,861 \$ 1,789 4 % \$ 883 \$ \$ 1,852 \$ 1,813 2 % \$ 945 \$ \$ 1,486 \$ 1,473 1 % \$ 740 \$ \$ 1,861 \$ 1,691 10 % \$ 869 \$ \$ 2,227 \$ 2,031 10% \$ 1,074 \$ \$ 0 % 48 % 2 pts 48 % \$ 60 % 58 % 2 pt 59 % \$ (290) \$ 1,074 (127) % \$ (130) \$ \$ 338 \$ 862 (61) % \$ 173 \$ \$ 22 % 31 % (9 pts) 23 % \$ 1,212 \$ 1,898 (36) % \$ 555 \$ \$ 1,543 \$ 1,391 11 % \$ 739 \$ \$ 2.16 \$ 3.36 (36) % \$ 0.99 \$ <	2022 2021 Change 2022 2021 \$ 3,713 \$ 3,504 6 % \$ 1,814 \$ 1,707 \$ 1,852 \$ 1,715 8 % \$ 931 \$ 870 \$ 1,861 \$ 1,789 4 % \$ 883 \$ 837 \$ 1,861 \$ 1,789 4 % \$ 883 \$ 837 \$ 1,852 \$ 1,813 2 % \$ 945 \$ 908 \$ 1,486 \$ 1,473 1 % \$ 740 \$ 744 \$ 1,861 \$ 1,691 10 % \$ 869 \$ 799 \$ 2,227 \$ 2,031 10% \$ 1,074 \$ 963 \$ 50 % 48 % 2 pts 48 % 47 % \$ 60 % 58 % 2 pt 59 % 56 % \$ (290) \$ 1,074 (127) % (130) \$ 1,133 \$ 338 \$ 862 (61) % \$ 173 \$ 679 22 % 31 % (9 pts) 23 % 35 % \$ 1,212 \$ 1,898 (36) % \$ 555 \$ 1,252 <

⁽¹⁾ We define recurring revenues as the portion of our revenues that are generally predictable, stable, and can be expected to occur at regular intervals in the future with a relatively high degree of certainty and visibility. We define transaction revenues as those associated with a more specific point-in-time service, such as a trade execution or a mortgage registration.

- Revenues, less transaction-based expenses, increased \$209 million and \$107 million for the six months and three months ended
 June 30, 2022, respectively, from the comparable periods in 2021. See "-Exchanges Segment", "Fixed Income and Data Services
 Segment" and "Mortgage Technology Segment" below for a discussion of the significant changes in our revenues. The increase in
 revenues during the six months and three months ended June 30, 2022 includes \$44 million and \$30 million, respectively, in unfavorable
 foreign exchange effects arising from fluctuations in the U.S. dollar from the comparable periods in 2021. See Item 3 "Quantitative and
 Qualitative Disclosures About Market Risk-Foreign Currency Exchange Rate Risk" below for additional information on the impact of
 currency fluctuations.
- Operating expenses increased \$39 million and \$37 million for the six months and three months ended June 30, 2022, respectively, from
 the comparable periods in 2021. See "-Consolidated Operating Expenses" below for a discussion of the significant changes in our
 operating expenses. The increase in operating expenses during the six months and three months ended June 30, 2022 includes \$14
 million and \$11 million, respectively, in favorable foreign exchange effects arising from fluctuations in the U.S. dollar from the comparable
 periods in 2021. See Item 3 "Quantitative and Qualitative Disclosures About Market Risk-Foreign Currency Exchange Rate Risk" below
 for additional information on the impact of currency fluctuations.

Variability in Quarterly Comparisons

Our business environment has been characterized by:

- · globalization of marketplaces, customers and competitors;
- · growing customer demand for workflow efficiency and automation;
- · commodity, interest rate and financial markets uncertainty;
- growing demand for data to inform customers' risk management and investment decisions;
- · evolving, increasing and disparate regulation across multiple jurisdictions;
- price volatility increasing customers' demand for risk management services;

⁽²⁾ The adjusted figures exclude items that are not reflective of our ongoing core operations and business performance. Adjusted net income attributable to ICE and adjusted diluted earnings per share attributable to ICE common stockholders are presented net of taxes. These adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

- · increasing focus on capital and cost efficiencies;
- customers' preference to manage risk in markets demonstrating the greatest depth of liquidity and product diversity;
- the evolution of existing products and new product innovation to serve emerging customer needs and changing industry agreements;
- rising demand for speed, data, data capacity and connectivity by market participants, necessitating increased investment in technology;
 and
- consolidation and increasing competition among global markets for trading, clearing and listings.

For additional information regarding the factors that affect our results of operations, see Item 1(A) "Risk Factors" included in our 2021 Form 10-K, and Part II, Item 1(A) "Risk Factors" below.

Segment Results

Our business is conducted through three reportable business segments, comprised of the following:

- In our Exchanges segment, we operate regulated marketplaces for the listing, trading and clearing of a broad array of derivatives contracts and financial securities;
- In our Fixed Income and Data Services segment, we provide fixed income pricing, reference data, indices, analytics and execution services as well as global CDS clearing and multi-asset class data delivery solutions; and
- In our Mortgage Technology segment, we provide an end-to-end technology platform that offers customers comprehensive, digital
 workflow tools that aim to address the inefficiencies that exist in the U.S. residential mortgage market, from application through closing
 and the secondary market.

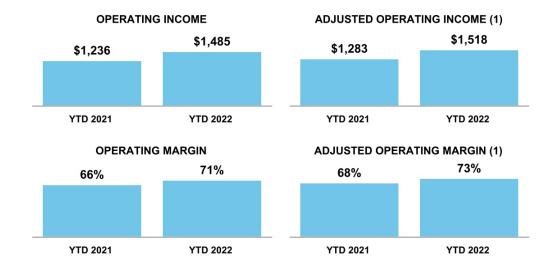
While revenues are recorded specifically in the segment in which they are earned or to which they relate, a significant portion of our operating expenses are not solely related to a specific segment because the expenses serve functions that are necessary for the operation of more than one segment. We directly allocate expenses when reasonably possible to do so. Otherwise, we use a pro-rata revenue approach as the allocation method for the expenses that do not relate solely to one segment and serve functions that are necessary for the operation of all segments. Our segments do not engage in intersegment transactions.

Exchanges Segment

The following presents selected statements of income data for our Exchanges segment (dollars in millions and YTD represents the six-month periods ended June 30th):

REVENUES, LESS TRANSACTION-BASED EXPENSES





⁽¹⁾ The adjusted numbers in the charts above are calculated by excluding items that are not reflective of our cash operations and core business performance. As a result, these adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

	Six Months Ended June 30,				Tł	ree Months	s En 0,	ided June	
	 2022		2021	Change	2022			2021	Change
Revenues:	 								
Energy futures and options	\$ 618	\$	584	6 %	\$	265	\$	274	(3)%
Agricultural and metals futures and options	122		121	1		61		62	(1)
Financial futures and options	253		188	35		123		83	50
Futures and options	 993		893	11		449		419	7
Cash equities and equity options	1,357		1,246	9		698		512	37
OTC and other	205		155	32		108		78	39
Transaction and clearing, net	2,555		2,294	11		1,255		1,009	25
Data and connectivity services	432		415	4		218		208	4
Listings	260		233	12		131		119	10
Revenues	3,247		2,942	10		1,604		1,336	20
Transaction-based expenses ⁽¹⁾	 1,159		1,059	9		599		427	40
Revenues, less transaction-based expenses	2,088		1,883	11		1,005		909	11
Other operating expenses	484		513	(6)		244		260	(6)
Depreciation and amortization	118		124	(5)		60		61	(2)
Acquisition-related transaction and integration costs	1		10	(89)		_		5	(93)
Operating expenses	603		647	(7)		304		326	(7)
Operating income	\$ 1,485	\$	1,236	20 %	\$	701	\$	583	20 %
Recurring revenues	\$ 693	\$	648	7 %		350		327	7 %
Transaction revenues, net	\$ 1,395	\$	1,235	13 %		655		582	13 %

⁽¹⁾Transaction-based expenses are largely attributable to our cash equities and options business.

Exchanges Revenues

Our Exchanges segment includes transaction and clearing revenues from our futures and NYSE exchanges, related data and connectivity services, and our listings business. Transaction and clearing revenues consist of fees collected from derivatives, cash equities and equity options trading and derivatives clearing, and are reported on a net basis, except for the NYSE transaction-based expenses discussed below. Rates per-contract, or RPC, are driven by the number of contracts or securities traded and the fees charged per contract, net of certain rebates. Our per-contract transaction and clearing revenues will depend upon many factors, including, but not limited to, market conditions, transaction and clearing volume, product mix, pricing, applicable revenue sharing and market making agreements, and new product introductions.

Transaction and clearing revenues are generally assessed on a per-contract basis and revenues and profitability fluctuate with changes in contract volume and product mix. We consider data and connectivity services revenues and listings revenues to be recurring revenues. Our data and connectivity services revenues are recurring subscription fees related to the various data and connectivity services that we provide which are directly attributable to our exchange venues. Our listings revenues are also recurring subscription fees that we earn for the provision of NYSE listings services for public companies and ETFs, and related corporate actions for listed companies.

For the six months ended June 30, 2022 and 2021, 19% and 16%, respectively, of our Exchanges segment revenues, less transaction-based expenses, were billed in pounds sterling or euros. For the three months ended June 30, 2022 and 2021, 18% and 16%, respectively, of our Exchanges segment revenues, less transaction-based expenses, were billed in pounds sterling or euros. Due to the fluctuations of the pound sterling and euro compared to the U.S. dollar, our Exchanges segment revenues, less transaction-based expenses, were lower by \$33 million and \$22 million for the six months and three months ended June 30, 2022, from the comparable periods in 2021.

Our exchange transaction and clearing revenues are presented net of rebates. We recorded rebates of \$464 million and \$526 million for the six months ended June 30, 2022 and 2021, respectively, and \$201 million and \$252 million for the three months ended June 30, 2022 and 2021, respectively. We offer rebates in certain of our markets primarily to support market liquidity and trading volume by providing qualified participants in those markets a discount to the applicable commission rate. Such rebates are calculated based on volumes traded. The decrease in rebates for the six

months and three months ended June 30, 2022 is primarily due to the migration of Sterling futures rebates into the Sterling Overnight Index Average, or SONIA, and a change in the pricing and structure of SONIA products.

- Energy Futures and Options: Total energy volume increased 5% and revenues increased 6% for the six months ended June 30, 2022 from the comparable period in 2021 and volume increased 2% and revenues decreased 3% for the three months ended June 30, 2022 from the comparable period in 2021.
 - Total oil futures and options volume decreased 6% and 12% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, due in part to a confluence of macroeconomic and geopolitical events and uncertainties.
 - Our global natural gas futures and options volume increased 31% and 35% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, driven by increased price volatility related to geopolitical events, including the conflict in Ukraine in the first half of 2022.
 - Our environmentals and other futures and options volume increased 1% for the six months ended June 30, 2022 and decreased 13% for the three months ended June 30, 2022, from the comparable periods in 2021, due in part to lower power volumes and environmental options volumes in the second quarter of 2022 versus the year ago period.
- Agricultural and Metals Futures and Options: Total volumes in our agricultural and metals futures and options markets were flat for both the six months and three months ended June 30, 2022 from the comparable periods in 2021 and revenues increased 1% for the six months ended June 30, 2022 and decreased 1% for the three months ended June 30, 2022, from the comparable periods in 2021. In the second quarter of 2022, increased sugar, cocoa and cotton volumes were offset by lower coffee volumes. Revenues increased in the first half of 2022 due to elevated price volatility and price inflation driving an increased need to manage risk across our commodity markets.
 - Sugar futures and options volumes decreased 2% for the six months ended June 30, 2022 and increased 1% for the three months
 ended June 30, 2022, from the comparable periods in 2021.
 - Other agricultural and metal futures and options volume increased 1% for the six months ended June 30, 2022 from the comparable period in 2021 and decreased 1% for the three months ended June 30, 2022 from the comparable period in 2021.
- Financial Futures and Options: Total volumes in our financial futures and options markets increased 1% and 7% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021 and revenues increased 35% and 50% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The six months ended June 30, 2022 benefited from elevated volatility across global markets driven by geopolitical events, central bank activity and inflationary concerns.
 - Interest rate futures and options volume decreased 2% for the six months ended June 30, 2022 and increased 4% for the three months ended June 30, 2022, from the comparable periods in 2021, and revenue increased 48% and 66% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The decrease in volume is due to the transition of the LIBOR-based Sterling contract to the alternative rate-based SONIA contract which is half the notional size of the Sterling contract. Adjusting for the difference in contract size, interest rate volumes increased 22% and 25% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, driven by interest rate volatility and increased speculation of central bank activity due to inflation concerns. Interest rate futures and options revenues were \$158 million and \$108 million for the six months ended June 30, 2022 and 2021, respectively, and \$76 million and \$46 million for the three months ended June 30, 2022 and 2021, respectively.
 - Other financial futures and options volume, which includes our MSCI®, FTSE® and NYSE FANG+ equity index products, increased 16% and 26%, for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. Financial futures and options revenue increased 18% and 29% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The six months ended June 30, 2022 benefited from elevated volatility across global markets driven by geopolitical events, central bank activity and inflationary concerns. Other financial futures and options revenues were \$95 million and \$80 million for the six months ended June 30, 2022 and 2021,

respectively and \$47 million and \$37 million for the three months ended June 30, 2022 and 2021, respectively.

- Cash Equities and Equity Options: Cash equities volume increased 2% and 17% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021 due to higher total market volumes driven by elevated volatility related to inflationary and recessionary concerns. Cash equities revenues, net of transaction-based expenses, were \$147 million and \$130 million for the six months ended June 30, 2022 and 2021, respectively, and \$74 million and \$59 million for the three months ended June 30, 2022 and 2021, respectively. Equity options volume increased 15% and 25% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021 driven by increased market share. Equity options revenues, net of transaction-based expenses, were \$51 million and \$57 million for the six months ended June 30, 2022 and 2021, respectively, and \$25 million and \$26 million for the three months ended June 30, 2022 and 2021, respectively.
- OTC and Other: OTC and other transactions include revenues from our OTC energy business and other trade confirmation services, as well as interest income on certain clearing margin deposits, regulatory penalties and fines, fees for use of our facilities, regulatory fees charged to member organizations of our U.S. securities exchanges, designated market maker service fees, exchange membership fees and agricultural grading and certification fees. Our OTC and other revenues increased 32% and 39% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021 primarily due to an increase in interest income on clearing margin deposits. Following the October 2021 Bakkt transaction, Bakkt revenues are no longer included within our OTC and other revenues.
- **Data and Connectivity Services:** Our data and connectivity services revenues increased 4% for both the six months and three months ended June 30, 2022 from the comparable periods in 2021. The increase in revenue was driven by the strong retention rate of existing customers, the addition of new customers and increased purchases by existing customers.
- Listings Revenues: Through NYSE, NYSE American and NYSE Arca, we generate listings revenue related to the provision of listings services for public companies and ETFs, and related corporate actions for listed companies. Listings revenues increased 12% and 10% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, driven by the full impact of strong equity capital markets activity in 2021. All listings fees are billed upfront and revenues are recognized over time as the identified performance obligations are satisfied.

Selected Operating Data

Rate per contract:

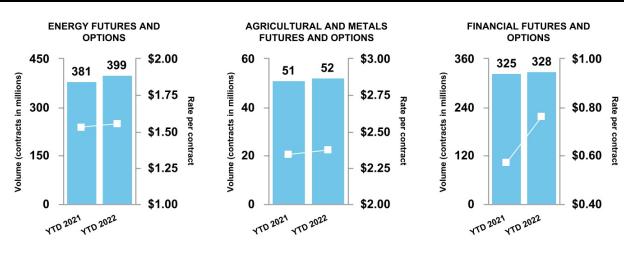
Energy futures and options

Financial futures and options

Agricultural and metals futures and options

The following charts and tables present trading activity in our futures and options markets by commodity type based on the total number of contracts traded, as well as futures and options rate per contract (in millions, except for percentages and rate per contract amounts and YTD represents the six-month periods ended June 30th):

Volume and Rate per Contract



	Six Months Ended June 30,			Three Months 30,		
	2022	2021	Change	2022	2021	Change
Number of contracts traded (in millions):						
Energy futures and options	399	381	5 %	177	175	2 %
Agricultural and metals futures and options	52	51	_	26	25	_
Financial futures and options	328	325	1	158	148	7
Total	779	757	3 %	361	348	4 %
	Six Months En	ded June 30,		Three Months 30,		
	2022	2021	Change	2022	2021	Change
Average daily volume of contracts traded (in thousands):						
Energy futures and options	3,221	3,070	5 %	2,862	2,774	3 %
Agricultural and metals futures and options	416	417	_	416	409	2
Financial futures and options	2,599	2,587	_	2,523	2,342	8
Total	6,236	6,074	3 %	5,801	5,525	5 %
	Six Months En	ded June 30,		Three Months 30,		

2021

1.53

2.34

0.57

Change

1% \$

1% \$

35 % \$

2022

1.49 \$

2.36

0.77 \$

\$

2021

1.57

2.39

0.55

Change

(5)%

(1)%

41 %

2022

1.55 \$

2.37 \$

0.76 \$

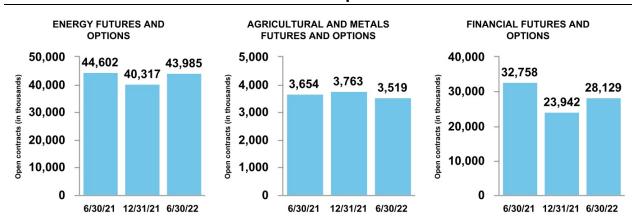
\$

\$

\$

Open interest is the aggregate number of contracts (long or short) that clearing members hold either for their own account or on behalf of their clients. Open interest refers to the total number of contracts that are currently "open," – in other words, contracts that have been entered into but not yet liquidated by either an offsetting trade, exercise, expiration or assignment. Open interest is also a measure of the future activity remaining to be closed out in terms of the number of contracts that members and their clients continue to hold in the particular contract and by the number of contracts held for each contract month listed by the exchange. The following charts and table present our quarter-end open interest for our futures and options contracts (in thousands, except for percentages):

Open Interest



	As of Ju		
	2022	2021	Change
Open interest — in thousands of contracts:			
Energy futures and options	43,985	44,602	(1)%
Agricultural and metals futures and options	3,519	3,654	(4)
Financial futures and options	28,129	32,758	(14)
Total	75,633	81,014	(7)%

The following charts and tables present selected cash and equity options trading data. All trading volume below is presented as average net daily trading volume, or ADV, and is single counted and YTD represents the six-month periods ended June 30th:



	Six Months Ende	ed June 30,		30,	indea dane	
	2022	2021	Change	2022	2021	Change
NYSE cash equities (shares in millions):		· ·				_
Total cash handled volume	2,606	2,557	2 %	2,591	2,206	17 %
Total cash market share matched	20.1 %	19.9 %	0.2 pts	20.2 %	20.5 %	(0.3 pts)
NYSE equity options (contracts in thousands):						
NYSE equity options volume	7,937	6,909	15 %	7,647	6,113	25 %
Total equity options volume	38,350	37,272	3 %	36,672	34,580	6 %
NYSE share of total equity options	20.7 %	18.5 %	2.2 pts	20.9 %	17.7 %	3.2 pts
Revenue capture or rate per contract:						
Cash equities rate per contract (per 100 shares)	\$0.046	\$0.041	11 %	\$0.047	\$0.043	9 %
Equity options rate per contract	\$0.05	\$0.07	(23)%	\$0.05	\$0.07	(23)%

Handled volume represents the total number of shares of equity securities, ETFs and crossing session activity internally matched on our exchanges or routed to and executed on an external market center. Matched volume represents the total number of shares of equity securities, ETFs and crossing session activity executed on our exchanges.

Transaction-Based Expenses

Our equities and equity options markets pay fees to the SEC pursuant to Section 31 of the Exchange Act. Section 31 fees are recorded on a gross basis as a component of transaction and clearing fee revenue. These Section 31 fees are assessed to recover the government's costs of supervising and regulating the securities markets and professionals and are subject to change. We, in turn, collect corresponding activity assessment fees from member organizations clearing or settling trades on the equities and options exchanges, and recognize these amounts in our transaction and clearing revenues when invoiced. The activity assessment fees are designed to equal the Section 31 fees. As a result, activity assessment fees and the corresponding Section 31 fees do not have an impact on our net income, although the timing of payment by us will vary from collections. Section 31 fees were \$174 million and \$166 million for the six months ended

June 30, 2022 and 2021, respectively, and \$123 million and \$41 million for the three months ended June 30, 2022 and 2021, respectively. The increase in Section 31 fees was primarily due to an increase in rates. The fees we collect are included in cash at the time of receipt and we remit the amounts to the SEC semi-annually as required. The total amount is included in accrued liabilities and was \$172 million as of June 30, 2022.

We make liquidity payments to cash and options trading customers, as well as routing charges made to other exchanges which are included in transaction-based expenses. We incur routing charges when we do not have the best bid or offer in the market for a security that a customer is trying to buy or sell on one of our securities exchanges. In that case, we route the customer's order to the external market center that displays the best bid or offer. The external market center charges us a fee per share (denominated in tenths of a cent per share) for routing to its system. We record routing charges on a gross basis as a component of transaction and clearing fee revenue. Cash liquidity payments, routing and clearing fees were \$985 million and \$893 million for the six months ended June 30, 2022 and 2021, respectively, and \$476 million and \$386 million for the three months ended June 30, 2022 and 2021, respectively.

Operating Expenses, Operating Income and Operating Margin

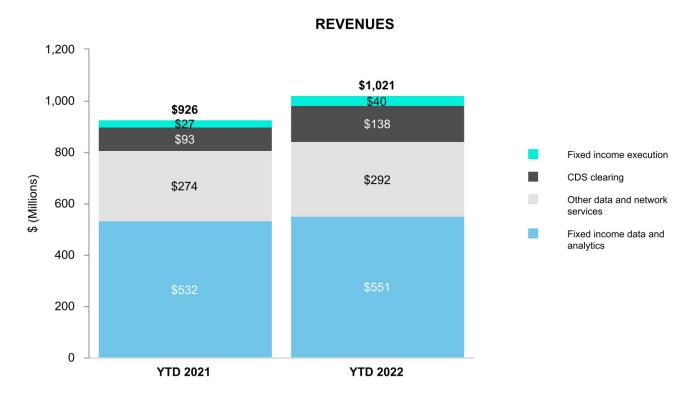
The following chart summarizes our Exchanges segment's operating expenses, operating income and operating margin (dollars in millions). See "- Consolidated Operating Expenses" below for a discussion of the significant changes in our operating expenses.

Exchanges Segment:	Six Months Ended June 30,			June 30,		Т	hree Months	Ende	ed June 30,	
		2022		2021	Change		2022		2021	Change
Operating expenses	\$	603	\$	647	(7)%	\$	304	\$	326	(7)%
Adjusted operating expenses ⁽¹⁾	\$	570	\$	600	(5)%	\$	287	\$	302	(5)%
Operating income	\$	1,485	\$	1,236	20 %	\$	701	\$	583	20 %
Adjusted operating income ⁽¹⁾	\$	1,518	\$	1,283	18 %	\$	718	\$	607	18 %
Operating margin		71 %	0	66 %	5 pts		70 %)	64 %	6 pts
Adjusted operating margin ⁽¹⁾		73 %	o o	68 %	5 pts		71 %)	67 %	4 pts

⁽¹⁾ The adjusted figures exclude items that are not reflective of our ongoing core operations and business performance. These adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

Fixed Income and Data Services Segment

The following charts and table present our selected statements of income data for our Fixed Income and Data Services segment (dollars in millions and YTD represents the six-month periods ended June 30th):





⁽¹⁾ The adjusted figures in the charts above are calculated by excluding items that are not reflective of our cash operations and core business performance. As a result, these adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

	Six	Months En	June 30,		Three Months Ended June 30,					
		2022		2021	Change	2022			2021	Change
Revenues:										
Fixed income execution	\$	40	\$	27	46 %	\$	25	\$	13	84 %
CDS clearing		138		93	48		66		38	72
Fixed income data and analytics		551		532	4		274		268	3
Fixed income and credit		729		652	12		365		319	14
Other data and network services		292		274	7		147		139	6
Revenues		1,021		926	10		512		458	12
Other operating expenses		516		500	3		252		251	1
Depreciation and amortization		176		172	2		86		86	(1)
Operating expenses		692		672	3		338		337	_
Operating income	\$	329	\$	254	29 %	\$	174	\$	121	43 %
Recurring revenues	\$	843	\$	806	5 %	\$	421	\$	407	4 %
Transaction revenues	\$	178	\$	120	48 %	\$	91	\$	51	75 %

In the table above, we consider fixed income data and analytics revenues and other data and network services revenues to be recurring revenues.

For the six months ended June 30, 2022 and 2021, 12% and 14%, respectively, of our Fixed Income and Data Services segment revenues were billed in pounds sterling or euros and for the three months ended June 30, 2022 and 2021, 12% and 14%, respectively, of our Fixed Income and Data Services segment revenues were billed in pounds sterling or euros. As the pound sterling or euro exchange rate changes, the U.S. equivalent of revenues denominated in foreign currencies changes accordingly. Due to the fluctuations of the pound sterling and euro compared to the U.S. dollar, our Fixed Income and Data Services revenues were lower by \$11 million and \$8 million for the six months and three months ended June 30, 2022, respectively, than the comparable periods in 2021.

Fixed Income and Data Services Revenues

Our Fixed Income and Data Services revenues increased 10% and 12% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The increase in revenue was primarily due to strength in our fixed income execution and CDS clearing businesses due to elevated volatility across global markets driven by geopolitical events, central bank activity and inflationary concerns as well as increased market share.

- **Fixed Income Execution:** Fixed income execution includes revenues from ICE Bonds. Execution fees are reported net of rebates, which were nominal for both the six months and three months ended June 30, 2022 and 2021. Our fixed income execution revenues increased 46% and 84% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, due to elevated volatility across global markets driven by geopolitical events, central bank activity and inflationary concerns.
- CDS Clearing: CDS clearing revenues increased 48% and 72% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The notional value of CDS cleared was \$13.6 trillion and \$8.1 trillion for the six months ended June 30, 2022 and 2021, respectively, and \$5.9 trillion and \$3.1 trillion for the three months ended June 30, 2022 and 2021, respectively. The increases in the notional value of CDS cleared were primarily driven by heightened volatility related to geopolitical events and inflationary concerns.
- **Fixed Income Data and Analytics:** Our fixed income data and analytics revenues increased 4% and 3% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The increase in revenue was due to strength in our index business and continued growth in our pricing and reference data business driven by the strong retention rate of existing customers, the addition of new customers and increased purchases by existing customers.
- Other Data and Network Services: Our other data and network services revenues increased 7% and 6% for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021. The increase in revenues was driven primarily by growth in our ICE Global Network offering, coupled with strength in our consolidated feeds and stronger desktop revenues.

Annual Subscription Value, or ASV, represents, at a point in time, the data services revenues, which includes Fixed Income Data and Analytics as well as other data and network services, subscribed for the succeeding 12 months. ASV does not include new sales, contract terminations or price changes that may occur during that 12-month period. However, while it is an indicative forward-looking metric, it does not provide a precise growth forecast of the next 12 months of data services revenues.

As of June 30, 2022, ASV was \$1.682 billion, which increased 5.0% compared to the ASV as of June 30, 2021. ASV represents nearly 100% of total data services revenues for this segment. This does not adjust for year-over-year foreign exchange fluctuations.

Operating Expenses, Operating Income and Operating Margin

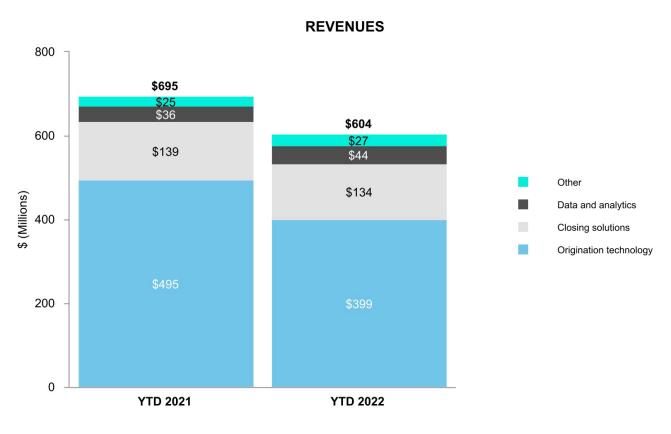
The following chart summarizes our Fixed Income and Data Services segment's operating expenses, operating income and operating margin (dollars in millions). See "- Consolidated Operating Expenses" below for a discussion of the significant changes in our operating expenses.

Fixed Income and Data Services Segment:	Si	x Months	Ended	d June 30,		Three Months Ended June 30,				
		2022		2021	Change		2022		2021	Change
Operating expenses	\$	692	\$	672	3 %	\$	338	\$	337	— %
Adjusted operating expenses ⁽¹⁾	\$	599	\$	581	3 %	\$	294	\$	291	1 %
Operating income	\$	329	\$	254	29 %	\$	174	\$	121	43 %
Adjusted operating income ⁽¹⁾	\$	422	\$	345	22 %	\$	218	\$	167	31 %
Operating margin		32 %	6	27 %	5 pts		34 %		26 %	8 pts
Adjusted operating margin ⁽¹⁾		41 %	6	37 %	4 pts		43 %		36 %	7 pts

⁽¹⁾ The adjusted figures exclude items that are not reflective of our ongoing core operations and business performance. These adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

Mortgage Technology Segment

The following charts and table present our selected statements of income data for our Mortgage Technology segment (dollars in millions and YTD represents the six-month periods ended June 30th):





⁽¹⁾ The adjusted figures in the charts above are calculated by excluding items that are not reflective of our cash operations and core business performance. As a result, these adjusted numbers are not calculated in accordance with U.S. GAAP. See "- Non-GAAP Financial Measures" below.

	Six Months Ended June 30,			Three Months Ended June 30,						
	-	2022		2021	Change		2022		2021	Change*
Revenues:										
Origination technology		399		495	(19)%		196		241	(19)%
Closing solutions		134		139	(3)		64		69	(6)
Data and analytics		44		36	21		24		18	37
Other		27		25	8		13		12	4
Revenues		604		695	(13)		297		340	(13)
Other operating expenses		280		266	5		140		136	3
Acquisition-related transaction and integration costs		61		18	260		53		5	n/a
Depreciation and amortization		216		210	3		110		104	6
Operating expenses		557		494	13		303		245	24
Operating income/(loss)	\$	47	\$	201	(77)%	\$	(6)	\$	95	(107)%
Recurring revenues	\$	316	\$	261	21%	\$	160	\$	136	18%
Transaction revenues	\$	288	\$	434	(34)%	\$	137	\$	204	(33)%

^{*}Percentage changes in the table above deemed "n/a" are not meaningful.

In the table above, we consider subscription fee and certain other revenues to be recurring revenues. Each revenue classification, above, contains a mix of recurring and transaction revenues, based on the various service offerings described in more detail, below.

Mortgage Technology Revenues

Our mortgage technology revenues are derived from our comprehensive, end-to-end U.S. residential mortgage platform. Our mortgage technology business is intended to enable greater workflow efficiency for customers focused on originating U.S. residential mortgage loans. Mortgage technology revenues decreased \$91 million and \$43 million for the six months and three months ended June 30, 2022 from the comparable periods in 2021 due to lower mortgage origination volumes.

- Origination technology: Our origination technology acts as a system of record for the mortgage transaction, automating the gathering, reviewing, and verifying of mortgage-related information and enabling automated enforcement of rules and business practices designed to help ensure that each completed loan transaction is of high quality and adheres to secondary market standards. These revenues are based on recurring Software as a Service, or SaaS, subscription fees, with an additive transaction-based or success-based pricing fee as lenders exceed the number of loans closed that are included with their monthly base subscription.
 - In addition, the ICE Mortgage Technology network provides originators connectivity to the mortgage supply chain and facilitates the secure exchange of information between our customers and a broad ecosystem of third-party service providers, as well as lenders and investors that are critical to consummating the millions of loan transactions that occur on our origination network each year. Revenue from the ICE Mortgage Technology network is largely transaction-based.
- Closing solutions: Our closing solutions connect key participants, such as lenders, title and settlement agents and individual county recorders, to digitize the closing and recording process. Closing solutions also include revenues from our Mortgage Electronic Registrations Systems, Inc., or MERS database, which provides a system of record for recording and tracking changes and servicing rights and beneficial ownership interests in loans secured by U.S. residential real estate. Revenues from closing solutions are largely transaction-based.
- Data and Analytics: Revenues include those related to ICE Mortgage Technology's Automation, Intelligence, Quality, or AIQ, offering which applies machine learning to the entire loan origination process, offering customers greater efficiency by streamlining data collection and validation through our automated document recognition and data extraction capabilities. AIQ revenues can be both recurring and transaction-based in nature. In addition, our data offerings include real-time industry and peer benchmarking tools, which provide originators a granular view into the real-time trends of nearly half the U.S. residential mortgage market. We also provide a Data as a Service, or DaaS, offering through private data clouds for lenders to access their own data and origination information. Revenues related to our data products are largely subscription-based and recurring in nature.
- Other: Other revenues include professional services fees, as well as revenues from ancillary products. Other revenues can be both recurring and transaction-based in nature.

Operating Expenses, Operating Income/(Loss) and Operating Margin

The following chart summarizes our Mortgage Technology segment's operating expenses, operating income/(loss) and operating margin (dollars in millions). See "- Consolidated Operating Expenses" below for a discussion of the significant changes in our operating expenses.

Mortgage Technology Segment:	Six Months En			June 30,		ı				
		2022		2021	Change*		2022		2021	Change
Operating expenses	\$	557	\$	494	13%	\$	303	\$	245	24%
Adjusted operating expenses ⁽¹⁾	\$	317	\$	292	9%	\$	159	\$	151	6%
Operating income/(loss)	\$	47	\$	201	(77)%	\$	(6)	\$	95	(107)%
Adjusted operating income ⁽¹⁾	\$	287	\$	403	(29)%	\$	138	\$	189	(27)%
Operating margin		8 %	6	29 %	(21 pts)		(2) %	, D	28 %	(30 pts)
Adjusted operating margin ⁽¹⁾		47 %	6	58 %	(11 pts)		46 %	, D	56 %	(10 pts)

⁽¹⁾ The adjusted figures exclude items that are not reflective of our ongoing core operations and business performance. These adjusted numbers are not calculated in accordance with GAAP. See "- Non-GAAP Financial Measures"

Consolidated Operating Expenses

The following presents our consolidated operating expenses (dollars in millions and YTD represents the six-month periods ended June 30th):

CONSOLIDATED OPERATING EXPENSES



	Six Months Ended June 30,					Thr	ee Month 3		
		2022		2021	Change		2022	2021	Change
Compensation and benefits	\$	714	\$	719	(1)%	\$	355	\$ 365	(3)%
Professional services		69		81	(15)		35	37	(7)
Acquisition-related transaction and integration costs		62		28	121		53	10	435
Technology and communication		344		327	5		169	165	3
Rent and occupancy		41		41	1		20	20	4
Selling, general and administrative		112		111	1		57	60	(4)
Depreciation and amortization		510		506	1		256	251	2
Total operating expenses	\$	1,852	\$	1,813	2 %	\$	945	\$ 908	4 %

The majority of our operating expenses do not vary directly with changes in our volume and revenues, except for certain technology and communication expenses, including data acquisition costs, licensing and other fee-related arrangements and a portion of our compensation expense that is tied directly to our data sales or overall financial performance.

We expect our operating expenses to increase in absolute terms in future periods in connection with the growth of our business, and to vary from year-to-year based on the type and level of our acquisitions, integration of acquisitions and other investments.

For both the six months ended June 30, 2022 and 2021, 10% of our operating expenses were billed in pounds sterling or euros, and for both the three months ended June 30, 2022 and 2021, 10% of our operating expenses were billed in

pounds sterling or euros. Due to fluctuations in the U.S. dollar compared to the pound sterling and euro, our consolidated operating expenses were \$14 million and \$11 million lower during the six months and three months ended June 30, 2022, respectively, than in the comparable periods in 2021. See Item 3 "— Quantitative and Qualitative Disclosures About Market Risk - Foreign Currency Exchange Rate Risk" below for additional information.

Compensation and Benefits Expenses

Compensation and benefits expense is our most significant operating expense and includes non-capitalized employee wages, bonuses, non-cash or stock compensation, certain severance costs, benefits and employer taxes. The bonus component of our compensation and benefits expense is based on both our financial performance and individual employee performance. The performance-based restricted stock compensation expense is also based on our financial performance. Therefore, our compensation and benefits expense will vary year-to-year based on our financial performance and fluctuations in our number of employees. The below chart summarizes the significant drivers of our compensation and benefits expense results for the periods presented (dollars in millions, except employee headcount).

	Six	Months	ed June				
		2022	2021	Change	2022	2021	Change
Employee headcount		8,936	9,088	(2)%			
Stock-based compensation expenses	\$	73	\$ 71	3 %	\$ 36	\$ 36	1 %

Headcount decreased due to a reduction of 479 Bakkt employees following its deconsolidation, partially offset by 373 additional employees hired in India.

Compensation and benefits expense decreased \$5 million and \$10 million for the six months and three months ended June 30, 2022, respectively, primarily due to \$32 million and \$18 million in expense related to Bakkt during the six months and three months ended June 30, 2021, respectively, prior to deconsolidation. This was partially offset by a \$22 million and \$6 million increase for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021, related to additional headcount, increased commissions, merit pay increases, and higher employee insurance costs. The stock-based compensation expenses in the table above relate to employee stock option and restricted stock awards and exclude stock-based compensation related to acquisition-related transaction and integration costs.

Professional Services Expenses

Professional services expense includes fees for consulting services received on strategic and technology initiatives, temporary labor, as well as regulatory, legal and accounting fees, and may fluctuate as a result of changes in our use of these services in our business.

Professional services expenses decreased \$12 million and \$2 million for the six months and three months ended June 30, 2022, from the comparable periods in 2021. During the six months and three months ended June 30, 2021, we incurred \$7 million and \$3 million in expense related to Bakkt prior to deconsolidation.

Acquisition-Related Transaction and Integration Costs

We incurred \$62 million and \$53 million in acquisition-related transaction and integration costs during the six months and three months ended June 30, 2022, primarily due to legal and consulting expenses related to our pending acquisition of Black Knight and our integration of Ellie Mae, Inc., or Ellie Mae. We incurred \$28 million and \$10 million in acquisition-related transaction costs for the six months and three months ended June 30, 2021, primarily related to our integration of Ellie Mae and the Bakkt transaction.

We expect to continue to explore and pursue various potential acquisitions and other strategic opportunities to strengthen our competitive position and support our growth. As a result, we may incur acquisition-related transaction costs in future periods.

Technology and Communication Expenses

Technology support services consist of costs for running our wholly-owned data centers, hosting costs paid to third-party data centers and maintenance of our computer hardware and software required to support our technology and cybersecurity. These costs are driven by system capacity, functionality and redundancy requirements. Communication expenses consist of costs or network connections for our electronic platforms and telecommunications costs.

Technology and communications expense also includes fees paid for access to external market data, licensing and other fee agreement expenses. Technology and communications expenses may be impacted by growth in electronic contract volume, our capacity requirements, changes in the number of telecommunications hubs and connections with customers to access our electronic platforms directly.

Technology and communications expenses increased \$17 million for the six months ended June 30, 2022 from the comparable period in 2021, primarily due to \$11 million in increased hardware and software support costs, \$12 million in increased hosting costs and \$4 million in increased data services costs, partially offset by a \$4 million decrease in license expense and \$7 million in expenses during the six months ended June 30, 2021 related to Bakkt prior to deconsolidation.

Technology and communications expenses increased \$4 million for the three months ended June 30, 2022 from the comparable period in 2021, primarily due to \$6 million in increased hardware and software support costs, \$4 million in increased hosting costs and \$2 million in increased data services costs, partially offset by a \$3 million decrease in license expense and \$4 million in expenses during the three months ended June 30, 2021 related to Bakkt prior to deconsolidation.

Rent and Occupancy Expenses

Rent and occupancy expense relates to leased and owned property and includes rent, maintenance, real estate taxes, utilities and other related costs. We have significant operations located in the U.S., U.K., and India, with smaller offices located throughout the world.

Rent and occupancy expenses were flat for the six months and three months ended June 30, 2022, respectively, from the comparable periods in 2021.

Selling, General and Administrative Expenses

Selling, general and administrative expenses include marketing, advertising, public relations, insurance, bank service charges, dues and subscriptions, travel and entertainment, non-income taxes and other general and administrative costs.

Selling, general and administrative expenses increased \$1 million for the six months ended June 30, 2022 from the comparable period in 2021 primarily due to \$10 million in increased marketing expenses and \$9 million in increased travel and entertainment expenses, offset by a \$3 million decrease in listings expenses and \$14 million in expenses related to Bakkt during the six months ended June 30, 2021, prior to the deconsolidation of Bakkt.

Selling, general and administrative expenses decreased \$3 million for the three months ended June 30, 2022, from the comparable period in 2021, primarily due to \$8 million in increased travel and entertainment expense, from the comparable period in 2021, offset by \$3 million in decreased listings expenses and \$8 million in expenses related to Bakkt during the three months ended June 30, 2021, prior to the deconsolidation of Bakkt.

Depreciation and Amortization Expenses

Depreciation and amortization expense results from depreciation of long-lived assets such as buildings, leasehold improvements, aircraft, hardware and networking equipment, software, furniture, fixtures and equipment over their estimated useful lives. This expense includes amortization of intangible assets obtained in our acquisitions of businesses, as well as on various licensing agreements, over their estimated useful lives. Intangible assets subject to amortization consist primarily of customer relationships, trading products with finite lives and technology. This expense also includes amortization of internally-developed and purchased software over its estimated useful life.

We recorded amortization expenses on intangible assets acquired as part of our acquisitions, as well as on other intangible assets, of \$306 million and \$314 million for the six months ended June 30, 2022 and 2021, respectively, and \$153 million and \$155 million for the three months ended June 30, 2022 and 2021, respectively.

We recorded depreciation expenses on our fixed assets of \$204 million and \$192 million for the six months ended June 30, 2022 and 2021, respectively, and \$103 million and \$96 million for the three months ended June 30, 2022 and 2021, respectively.

Consolidated Non-Operating Income/(Expense)

Income and expenses incurred through activities outside of our core operations are considered non-operating. The following tables present our non-operating income/(expenses) (dollars in millions):

	Six	Months E	nde	d June 30,		TI	nree Month 3			
		2022		2021	Change	2022		2021	Change	
Other income/(expense):										
Interest income	\$	9	\$	_	n/a	\$	8	\$ _	n/a	
Interest expense		(264)		(213)	24		(161)	(106)	53	
Other income/(expense), net		(35)		1,287	n/a		23	1,239	(98)	
Total other income/(expense), net	\$	(290)	\$	1,074	n/a	\$	(130)	\$ 1,133	n/a	
Net income attributable to non-controlling interest	\$	(21)	\$	(5)	313%	\$	(11)	\$ (1)	919%	

^{*}Percentage changes in the table above deemed "n/a" are not meaningful.

Interest Income

We recognized interest income of \$9 million and \$8 million during the six months and three months ended June 30, 2022, respectively. Interest income for the six months and three months ended June 30, 2022 primarily represents interest income on our short-term investments, including \$5 million in interest income recorded during the six months and three months ended June 30, 2022 in connection with the short-term investments related to the \$4.9 billion of the SMR Notes for the Black Knight acquisition.

Interest Expense

We recognized interest expense of \$264 million and \$213 million during the six months ended June 30, 2022 and 2021, respectively, and \$161 million and \$106 million during the three months ended June 30, 2022 and 2021, respectively. Interest expense for the six months and three months ended June 30, 2022 primarily represents interest expense on our outstanding debt. During the three months ended June 30, 2022 we recognized \$23 million in interest expense on the \$4.9 billion SMR Notes for the Black Knight acquisition, and \$30 million in costs associated with the extinguishment and re-financing of our existing debt in connection with our May 2022 debt refinancing. See "- Debt" below.

Other income/(expense), net

Our equity method investments include OCC and Bakkt, among others. We recognized (\$57 million) and \$34 million during the six months ended June 30, 2022 and 2021, respectively, and (\$15 million) and \$9 million during the three months ended June 30, 2022 and 2021, respectively, of our share of estimated equity method investment (losses)/profits, net, which is included in other income. The estimated losses during the six months and three months ended June 30, 2022 are primarily related to our investment in Bakkt, and the estimated profits during the six months and three months ended June 30, 2021 are related to our investment in OCC. Both the six month periods ended June 30, 2022 and 2021 include adjustments to reflect the difference between reported prior period actual results from our original estimates.

During the three months ended June 30, 2021, Coinbase completed an IPO and we sold our investment in Coinbase for \$1.24 billion, and recorded a gain of \$1.23 billion as other income.

During the six months ended June 30, 2022, we recorded a \$9 million accrual for a legal settlement, which is included in other expense.

We completed the sale of our Euroclear stake on May 20, 2022. The carrying value of our investment was \$700 million at the time of the sale. We recorded a net gain of \$41 million on the sale, which is included in other income during the three months ended June 30, 2022. We did not receive a Euroclear dividend during the six months ended June 30, 2022 prior to the May 2022 sale of our investment. We recognized dividend income of \$30 million on our Euroclear investment during the six months ended June 30, 2021, which is included in other income.

We incurred foreign currency transaction losses of \$9 million for both the six months ended June 30, 2022 and 2021, respectively, and \$4 million and \$3 million for the three months ended June 30, 2022 and 2021, respectively, primarily attributable to the fluctuations of the pound sterling and euro relative to the U.S. dollar. Foreign currency transaction gains and losses are recorded in other income/(expense), net, when the settlement of foreign currency assets, liabilities and payables occur in non-functional currencies and there is an increase or decrease in the period-end foreign currency exchange rates between periods. See Item 3 "- Quantitative and Qualitative Disclosures About Market Risk - Foreign Currency Exchange Rate Risk" included elsewhere in this Quarterly Report for more information on these items.

Non-controlling Interest

For consolidated subsidiaries in which our ownership is less than 100%, and for which we have control over the assets, liabilities and management of the entity, the outside stockholders' interests are shown as non-controlling interests. As of June 30, 2022, our non-controlling interests included those related to the non-ICE limited partners' 26.7% ownership interest in our CDS clearing subsidiaries, and non-controlling interests in ICE Futures Abu Dhabi. Prior to completion of the Bakkt transaction on October 15, 2021, our non-controlling interest also included the redeemable non-controlling interest of the non-ICE partners in Bakkt.

Consolidated Income Tax Provision

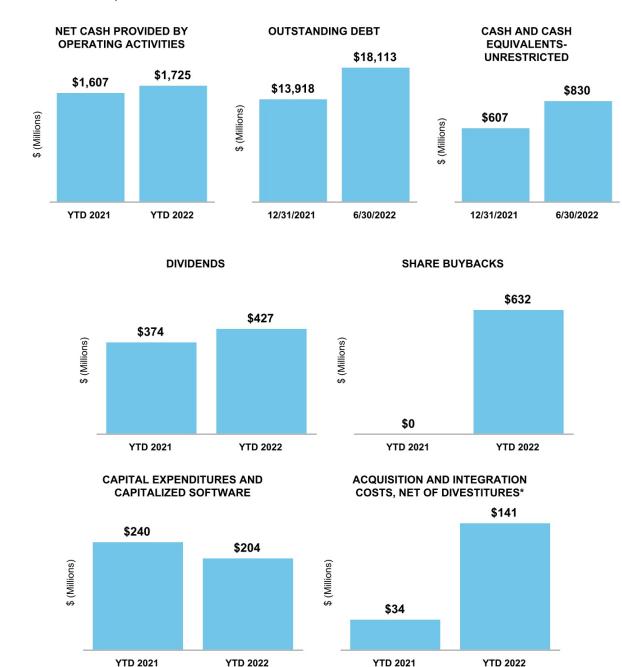
Consolidated income tax expense was \$338 million and \$862 million for the six months ended June 30, 2022 and 2021, respectively, and \$173 million and \$679 million for the three months ended June 30, 2022 and 2021, respectively. The change in consolidated income tax expense between periods is primarily due to the tax impact of changes in our pre-tax income and the changes in our effective tax rate each period.

Our effective tax rate was 22% and 31% for the six months ended June 30, 2022 and 2021, respectively, and 23% and 35% for the three months ended June 30, 2022 and 2021, respectively. The effective tax rates for the six months and three months ended June 30, 2022 were lower than the effective tax rates for the comparable periods in 2021 primarily due to the deferred income tax impact from U.K. tax law changes as well as from the impact of the sale of our investment in Coinbase during the six months ended June 30, 2021.

During the three months ended June 30, 2021, the U.K. Finance Act 2021 was enacted, which increased the U.K. corporate income tax rate from 19% to 25%, effective April 1, 2023. The combined impact of the U.K. deferred tax provision and the sale of our investment in Coinbase for the six months and three months ended June 30, 2021 increased our effective tax rate by 8 and 12 percentage points, respectively.

Liquidity and Capital Resources

Below are charts that reflect our outstanding debt and capital allocation. The acquisition and integration costs in the chart below include cash paid for acquisitions, net of cash received for divestitures, cash paid for equity and equity method investments, cash paid for non-controlling interest and redeemable non-controlling interest, and acquisition-related transaction and integration costs in each period (YTD represents the six-month periods ended June 30th).



^{*}Excludes the proceeds from the sales of our stakes in Euroclear (Q2 2022) and Coinbase (Q2 2021).

We have financed our operations, growth and cash needs primarily through income from operations and borrowings under our various debt facilities. Our principal capital requirements have been to fund capital expenditures, working capital, strategic acquisitions and investments, stock repurchases, dividends and the development of our technology platforms. We believe that our cash on hand and cash flows from operations will be sufficient to repay our outstanding debt, but we

may also need to incur additional debt or issue additional equity securities in the future. See "- Future Capital Requirements" below.

See "- Cash Flow" below for a discussion of our capital expenditures and capitalized software development costs.

Consolidated cash and cash equivalents were \$830 million and \$607 million as of June 30, 2022 and December 31, 2021, respectively. We had \$6.5 billion and \$1.4 billion in short-term and long-term restricted cash and cash equivalents as of June 30, 2022 and December 31, 2021, respectively. We had \$164.5 billion and \$145.9 billion of cash and cash equivalent margin deposits and guaranty funds as of June 30, 2022 and December 31, 2021, respectively.

As of June 30, 2022, the amount of unrestricted cash held by our non-U.S. subsidiaries was \$442 million. Due to U.S. tax reform, the majority of our foreign earnings since January 1, 2018 have been subject to immediate U.S. income taxation, and the existing non-U.S. unrestricted cash balance can be distributed to the U.S. in the future with no material additional income tax consequences.

Our cash and cash equivalents and financial investments are managed as a global treasury portfolio of non-speculative financial instruments that are readily convertible into cash, such as overnight deposits, term deposits, money market funds, mutual funds for treasury investments, short duration fixed income investments and other money market instruments, thus ensuring high liquidity of financial assets. We may invest a portion of our cash in excess of short-term operating needs in investment-grade marketable debt securities, including government or government-sponsored agencies and corporate debt securities. As of June 30, 2022, we held \$8 million of unrestricted cash that was set aside for legal, regulatory, and surveillance operations at NYSE.

Cash Flow

The following table presents the major components of net changes in cash and cash equivalents, and restricted cash and cash equivalents (in millions):

	Six Months Ended June 30,					
		2022		2021		
Net cash provided by/(used in):						
Operating activities	\$	1,725	\$	1,607		
Investing activities		2,843		1,544		
Financing activities		19,238		5,262		
Effect of exchange rate changes		(19)		_		
Net increase in cash and cash equivalents, restricted cash and cash equivalents, and cash and cash equivalent margin deposits and guaranty funds	\$	23,787	\$	8,413		

Operating Activities

Net cash provided by operating activities primarily consists of net income adjusted for certain items, including depreciation and amortization, deferred taxes, stock based compensation and the effects of changes in working capital.

The \$118 million increase in net cash provided by operating activities during the six months ended June 30, 2022 from the comparable period in 2021 was driven by an increase in net income adjusted for the gain on our sale of our Coinbase investment during the six months ended June 30, 2021 and a gain on the sale of our Euroclear investment during the six months ended June 30, 2022, as well as \$57 million in net losses from unconsolidated investees. The remaining fluctuations are due to changes in our working capital and the timing of various payments such as an increase in Section 31 fees payable of \$159 million.

Investing Activities

Consolidated net cash provided by investing activities for the six months ended June 30, 2022 primarily relates to \$3.8 billion in proceeds from the sale of invested margin deposits and \$741 million in proceeds from the sale of our Euroclear investment, partially offset by \$1.4 billion of purchases of invested margin deposits. \$70 million of capital expenditures and \$134 million of capitalized software development costs.

Consolidated net cash provided by investing activities for the six months ended June 30, 2021 primarily relates to \$1.2 billion of proceeds from the sale of our Coinbase investment and \$2.2 billion of proceeds from sales of invested margin deposits, partially offset by \$1.6 billion purchases of invested margin deposits, \$95 million of capital expenditures and \$145 million of capitalized software development costs.

The capital expenditures primarily relate to hardware and software purchases to continue the development and expansion of our electronic platforms, data services and clearing houses, and leasehold improvements. The software development expenditures primarily relate to the development and expansion of our electronic trading platforms, data services, mortgage services and clearing houses.

Financing Activities

Consolidated net cash provided by financing activities for the six months ended June 30, 2022 primarily relates to an increase in our cash and cash equivalent margin deposits and guaranty fund balances of \$16.2 billion due to increased volatility and \$5.2 billion in net proceeds from our debt facilities, partially offset by \$1.0 billion in net repayments under our Commercial Paper Program, \$632 million in repurchases of our common stock, \$427 million in dividend payments to stockholders and \$71 million in cash payments related to treasury shares received for restricted stock tax payments and stock option exercises.

Consolidated net cash provided by financing activities for the six months ended June 30, 2021 primarily relates to an increase in our cash and cash equivalent margin deposits and guaranty fund balances of \$7.8 billion, partially offset by \$2.1 billion in net repayments under our Commercial Paper Program, \$374 million in dividend payments to stockholders and \$67 million in cash payments related to treasury shares received for restricted stock tax payments and stock option exercises.

We have adjusted our historical presentation of opening and ending amounts of cash and cash equivalents, and restricted cash and cash equivalents in our consolidated statements of cash flows to include cash and cash equivalent margin deposits and guaranty funds. Changes in these balances are reflected as cash provided by financing activities.

Debt

As of June 30, 2022, we had \$18.1 billion in outstanding debt, all of which relates to our senior notes. We also have \$4 million under credit lines at our ICE India subsidiaries. As of June 30, 2022, our senior notes of \$18.1 billion had a weighted average maturity of 17 years and a weighted average cost of 3.6% per annum. There were no amounts outstanding under our Commercial Paper Program as of June 30, 2022. As of December 31, 2021, we had \$13.9 billion in outstanding debt, consisting of \$12.9 billion of senior notes, \$1.0 billion under our Commercial Paper Program and \$10 million under credit lines at our ICE India subsidiaries. As of December 31, 2021, our senior notes of \$12.9 billion had a weighted average maturity of 15 years and a weighted average cost of 2.9% per annum. The commercial paper notes had original maturities ranging from three to 73 days as of December 31, 2021, with a weighted average interest rate of 0.33% per annum, and a weighted average remaining maturity of 26 days.

We have a \$3.9 billion senior unsecured revolving credit facility, or the Credit Facility, with a maturity date of May 25, 2027 pursuant to a credit agreement with Wells Fargo Bank, N.A., as primary administrative agent, issuing lender and swing-line lender, Bank of America, N.A., as syndication agent, backup administrative agent and swing-line lender, and the lenders party thereto. As of June 30, 2022, of the \$3.9 billion that is currently available for borrowing under the Credit Facility, \$170 million is required to support certain broker-dealer and other subsidiary commitments. The remaining \$3.7 billion is available for working capital and general corporate purposes including, but not limited to, acting as a backstop to future increases in the amounts outstanding under the Commercial Paper Program.

On May 23, 2022, we issued \$8.0 billion in aggregate principal amount of new senior notes, comprised of the following:

- \$1.25 billion in aggregate principal amount of 3.65% senior notes due in 2025, or the 2025 Notes;
- \$1.5 billion in aggregate principal amount of 4.00% senior notes due in 2027, or the 2027 Notes;
- \$1.25 billion in aggregate principal amount of 4.35% senior notes due in 2029, or the 2029 Notes;
- \$1.5 billion in aggregate principal amount of 4.60% senior notes due in 2033, or the 2033 Notes;
- \$1.5 billion in aggregate principal amount of 4.95% senior notes due in 2052, or the 2052 Notes; and
- \$1.0 billion in aggregate principal amount of 5.20% senior notes due in 2062, or the 2062 Notes and collectively, the Notes.

We intend to use the net proceeds of \$4.9 billion from the offering of the 2025 Notes, the 2027 Notes, the 2029 Notes and the 2062 Notes, or collectively, the SMR Notes, together with the issuance of commercial paper and/or borrowings under the Credit Facility, cash on hand or other immediately available funds and borrowings under the Term Loan, to finance the cash portion of the purchase price for Black Knight. The SMR Notes are subject to a special mandatory redemption feature pursuant to which we will be required to redeem all of the outstanding SMR Notes at a redemption price equal to 101% of the aggregate principal amount of the SMR Notes, plus accrued and unpaid interest, in the event that the Black Knight acquisition is not consummated on or prior to May 4, 2023 (subject to two automatic extensions of three months each, to August 4, 2023 and to November 4, 2023, respectively, if U.S. antitrust clearance or a related law, injunction, order or other judgment, in each case whether temporary, preliminary or permanent, that restrains, enjoins or otherwise prohibits the consummation of the Black Knight merger remains outstanding and all other conditions to closing are satisfied (or in the case of conditions that by their terms are to be satisfied at the closing, are capable of being satisfied if the closing were to occur on such date) at each extension date), or if the Black Knight merger agreement is terminated at any time prior to such date. The \$4.9 billion net proceeds from the SMR Notes are separately invested and recorded as short-term restricted cash and cash equivalents in our consolidated balance sheet as of June 30, 2022.

We used the \$3.0 billion of net proceeds from the offering of the 2033 Notes and the 2052 Notes to redeem \$2.7 billion aggregate principal amount of four series of senior notes that would have matured in 2022 and 2023. The balance of the net proceeds was used for general corporate purposes, which included paying down a portion of the amounts outstanding under our Commercial Paper Program. We recorded \$30 million in costs associated with the extinguishment and re-financing of our existing debt in connection with our May 2022 debt refinancing. These costs are included in interest expense in our consolidated statements of income for the six months ended June 30, 2022. For additional information regarding this transaction, refer to Note 3 to our consolidated unaudited financial statements, included in this Quarterly Report.

On May 4, 2022, we entered into a 364-day senior unsecured bridge facility in an aggregate principal amount not to exceed \$14.0 billion, or the Bridge Facility. The commitments that the Company obtained for the Bridge Facility have been permanently reduced from \$14.0 billion to \$1.2 billion as of June 30, 2022 as a result of (i) the amendment and extension of the Credit Facility, (ii) the issuance by the Company of certain senior unsecured notes on May 23, 2022, (iii) Euroclear divestment proceeds, (iv) the generation of cash internally by the Company, and (v) the effectiveness of our term loan facility.

On May 25, 2022, we entered into a \$2.4 billion two-year senior unsecured delayed draw term loan facility, or the Term Loan. Draws under the Term Loan bear interest on the principal amount outstanding at either (a) Term SOFR plus an applicable margin plus a credit spread adjustment of 10 basis points or (b) a "base rate" plus an applicable margin. The applicable margin ranges from 0.625% to 1.125% for Term SOFR loans and from 0.000% to 0.125% for base rate loans, in each case, based on a ratings-based pricing grid. The proceeds from borrowings under the Term Loan will be used to fund a portion of the purchase price for the Black Knight acquisition. We have the option to prepay outstanding amounts under the Term Loan in whole or in part at any time. No amounts were outstanding under the Term Loan as of June 30, 2022.

Our Commercial Paper Program enables us to borrow efficiently at reasonable short-term interest rates and provides us with the flexibility to delever using our strong annual cash flows from operating activities whenever our leverage becomes elevated as a result of investment or acquisition activities. We had net paydowns of \$1.0 billion under our Commercial Paper Program during the six months ended June 30, 2022 and did not have any notes outstanding under our Commercial Paper Program as of June 30, 2022.

Upon maturity of our commercial paper and to the extent old issuances are not repaid by cash on hand, we are exposed to the rollover risk of not being able to issue new commercial paper. To mitigate this risk, we maintain the Credit Facility for an aggregate amount which meets or exceeds the amount issued under our Commercial Paper Program at any time. If we were not able to issue new commercial paper, we have the option of drawing on the backstop revolving facility. However, electing to do so would result in higher interest expense.

For additional details of our debt instruments, refer to Note 8 to our consolidated unaudited financial statements, included in this Quarterly Report, and Note 10 to our consolidated financial statements included in our 2021 Form 10-K.

Capital Return

In December 2021, our Board approved an aggregate of \$3.15 billion for future repurchases of our common stock with no fixed expiration date that became effective January 1, 2022. The \$3.15 billion replaced the previous amount approved by the Board.

For the six months ended June 30, 2022, we repurchased 5.0 million shares of our outstanding common stock at a cost of \$632 million, including 4.6 million shares at a cost of \$582 million under our Rule 10b5-1 trading plan and 0.4 million

shares at a cost of \$50 million on the open market during an open trading period. For the three months ended June 30, 2022, we repurchased 1.3 million shares of our outstanding common stock at a cost of \$157 million under our Rule 10b5-1 trading plan. For the six months ended June 30, 2021, we did not repurchase any of our outstanding common stock. Shares repurchased are held in treasury stock.

The remaining balance of Board approved funds for future repurchases as of June 30, 2022 is \$2.5 billion. In connection with our pending acquisition of Black Knight, on May 4, 2022 we terminated our Rule 10b5-1 trading plan and suspended share repurchases. The approval of our Board for stock repurchases does not obligate us to acquire any particular amount of our common stock. In addition, our Board may increase or decrease the amount available for repurchases from time to time.

From time to time, we enter into Rule 10b5-1 trading plans, as authorized by our Board, to govern some or all of the repurchases of our shares of common stock. In December 2021 we entered into a new Rule 10b5-1 trading plan that became effective in February 2022. We may discontinue stock repurchases at any time and may amend or terminate a Rule 10b5-1 trading plan at any time. We expect funding for any stock repurchases to come from our operating cash flow or borrowings under our Commercial Paper Program or our debt facilities. Repurchases may be made from time to time on the open market, through established trading plans, in privately-negotiated transactions or otherwise, in accordance with all applicable securities laws, rules and regulations. The timing and extent of future repurchases that are not made pursuant to a Rule 10b5-1 trading plan will be at our discretion and will depend upon many conditions. In making a determination regarding any stock repurchases, management considers multiple factors, including overall stock market conditions, our common stock price performance, the remaining amount authorized for repurchases by our Board, the potential impact of a stock repurchase program on our corporate debt ratings, our expected free cash flow and working capital needs, our current and future planned strategic growth initiatives, and other potential uses of our cash and capital resources.

During the three months ended June 30, 2022, we paid a quarterly dividend of \$0.38 per share of our common stock for an aggregate payout of \$213 million, which includes the payment of dividend equivalents on unvested employee restricted stock units.

Future Capital Requirements

Our future capital requirements will depend on many factors, including the rate of growth across our segments, strategic plans and acquisitions, available sources for financing activities, required and discretionary technology and clearing initiatives, regulatory requirements, the timing and introduction of new products and enhancements to existing products, the geographic mix of our business and potential stock repurchases.

We currently expect to incur capital expenditures (including operational and real estate capital expenditures) and to incur software development costs that are eligible for capitalization ranging in the aggregate between \$490 million and \$520 million in 2022, which we believe will support the enhancement of our technology, business integration and the continued growth of our businesses.

As of June 30, 2022, we had \$2.5 billion authorized for future repurchases of our common stock. Refer to Note 10 to our consolidated financial statements included in this Quarterly Report for additional details on our stock repurchase program.

Our Board has adopted a quarterly dividend policy providing that dividends will be approved quarterly by the Board or the Audit Committee taking into account factors such as our evolving business model, prevailing business conditions, our current and future planned strategic growth initiatives and our financial results and capital requirements, without a predetermined net income payout ratio. On August 4, 2022, we announced a \$0.38 per share dividend for the third quarter of 2022 with the dividend payable on September 30, 2022 to stockholders of record as of September 16, 2022.

Other than the facilities for the ICE Clearing Houses, our Credit Facility and our Commercial Paper Program are currently the only significant agreements or arrangements that we have for liquidity and capital resources with third parties. See Notes 8 and 12 to our consolidated financial statements included in this Quarterly Report for further discussion. In the event of any strategic acquisitions, mergers or investments, or if we are required to raise capital for any reason or desire to return capital to our stockholders, we may incur additional debt, issue additional equity to raise necessary funds, repurchase additional shares of our common stock or pay a dividend. However, we cannot provide assurance that such financing or transactions will be available or successful, or that the terms of such financing or transactions will be favorable to us. See "—Debt" above.

Non-GAAP Measures

We use certain financial measures internally to evaluate our performance and make financial and operational decisions that are presented in a manner that adjusts from their equivalent GAAP measures or that supplement the information provided by our GAAP measures. We use these adjusted results because we believe they more clearly highlight trends in our business that may not otherwise be apparent when relying solely on GAAP financial measures, since these measures eliminate from our results specific financial items that have less bearing on our core operating performance.

We use these measures in communicating certain aspects of our results and performance, including in this Quarterly Report, and believe that these measures, when viewed in conjunction with our GAAP results and the accompanying reconciliation, can provide investors with greater transparency and a greater understanding of factors affecting our financial condition and results of operations than GAAP measures alone. In addition, we believe the presentation of these measures is useful to investors for making period-to-period comparisons of results because the adjustments to GAAP are not reflective of our core business performance.

These financial measures are not presented in accordance with, or as an alternative to, GAAP financial measures and may be different from non-GAAP measures used by other companies. We encourage investors to review the GAAP financial measures included in this Quarterly Report, including our consolidated financial statements, to aid in their analysis and understanding of our performance and in making comparisons.

The table below outlines our adjusted operating expenses, adjusted operating income, adjusted operating margin, adjusted net income attributable to ICE common stockholders and adjusted earnings per share, which are non-GAAP measures that are calculated by making adjustments for items we view as not reflective of our cash operations and core business performance. These measures, including the adjustments and their related income tax effect and other tax adjustments (in millions, except for percentages and per share amounts), are as follows:

	Exchanges Segment			Fixed Income and Data Services Segment					lortgage Seç			Cons	ated			
				Six Months End					· · · · · · · · · · · · · · · · · · ·							
		2022		2021		2022		2021		2022		2021		2022		2021
Total revenues, less transaction-based expenses	\$	2,088	\$	1,883	\$	1,021	\$	926	\$	604	\$	695	\$	3,713	\$	3,504
Operating expenses		603		647		692		672		557		494		1,852		1,813
Less: Amortization of acquisition-related intangibles		33		37		93		91		180		185		306		313
Less: Transaction and integration costs		_		10		_		_		60		17		60		27
Adjusted operating expenses	\$	570	\$	600	\$	599	\$	581	\$	317	\$	292	\$	1,486	\$	1,473
Operating income	\$	1,485	\$	1,236	\$	329	\$	254	\$	47	\$	201	\$	1,861	\$	1,691
Adjusted operating income	\$	1,518	\$	1,283	\$	422	\$	345	\$	287	\$	403	\$	2,227	\$	2,031
Operating margin		71 %		66 %		32 %		27 %	_	8 %		29 %		50 %		48 %
Adjusted operating margin		73 %		68 %		41 %		37 %		47 %		58 %		60 %		58 %
Net income attributable to ICE common stockholders													\$	1,212	\$	1,898
Add: Amortization of acquisition-related intangibles														306		313
Add: Transaction and integration costs														60		27
Add: Accrual relating to legal settlement														9		_
Add: Net interest expense on pre-acquisition-related debt														18		_
Add: Extinguishment of 2022 and 2023 Senior Notes														30		_
Less: Gain on sale of Euroclear equity investment and dividends received														(41)		(30)
Less: Gain on sale of Coinbase equity investment														_		(1,227)
Less: Gain related to the settlement of an acquisition-related indemnification claim														_		(7)
Add/(Less): Net losses/(income) from unconsolidated investees														57		(34)
Add/(Less): Income tax effect for the above items														(123)		254
Add: Deferred tax adjustments on acquisition-related intangibles														15		197
Adjusted net income attributable to ICE common stockholders													\$	1,543	\$	1,391
Basic earnings per share attributable to ICE common stockholders													\$	2.17	\$	3.38
Diluted earnings per share attributable to ICE common stockholders													\$	2.16	\$	3.36
Adjusted basic earnings per share attributable to ICE common stockholders													\$	2.76	\$	2.47
Adjusted diluted earnings per share attributable to ICE common stockholders													\$	2.75	\$	2.46
Basic weighted average common shares outstanding														560		562
Diluted weighted average common shares outstanding														562		565

	Exchanges Segment					ixed Inco Services		a N	lortgage Seç	hnology nt		Cons	ated			
						Th	ree	Months	End	nded June 30,						
		2022		2021		2022		2021		2022		2021		2022		2021
Total revenues, less transaction-based expenses	\$	1,005	\$	909	\$	512	\$	458	\$	297	\$	340	\$	1,814	\$	1,707
Operating expenses		304		326		338		337		303		245		945		908
Less: Amortization of acquisition-related intangibles		17		19		44		46		92		90		153		155
Less: Transaction and integration costs				5				_		52		4		52		9
Adjusted operating expenses	\$	287	\$	302	\$	294	\$	291	\$	159	\$	151	\$	740	\$	744
Operating income	\$	701	\$	583	\$	174	\$	121	\$	(6)	\$	95	\$	869	\$	799
Adjusted operating income	\$	718	\$	607	\$	218	\$	167	\$	138	\$	189	\$	1,074	\$	963
Operating margin	_	70 %	_	64 %	_	34 %	_	26 %	_	(2)%	_	28 %	_	48 %		47 %
Adjusted operating margin		71 %		67 %		43 %	Ξ	36 %		46 %	_	56 %	_	59 %		56 %
Net income attributable to ICE common stockholders		-								_	_		\$	555	\$	1,252
Add: Amortization of acquisition-related intangibles														153		155
Add: Transaction and integration costs														52		9
Add: Net interest expense on pre-acquisition-related debt														18		_
Add: Extinguishment of 2022 and 2023 Senior Notes														30		_
Less: Gain on sale of Euroclear equity investment														(41)		_
Less: Gain on sale of Coinbase equity investment														_		(1,227)
Less: Gain related to the settlement of an acquisition-related indemnification claim														_		(7)
Add/(Less): Net losses/(income) from unconsolidated investees														15		(9)
Add/(Less): Income tax effect for the above items														(65)		288
Add: Deferred tax adjustments on acquisition-related intangibles														22		196
Adjusted net income attributable to ICE common stockholders													\$	739	\$	657
Basic earnings per share attributable to ICE common stockholders													\$	0.99	\$	2.23
Diluted earnings per share attributable to ICE common stockholders													\$	0.99	\$	2.22
Adjusted basic earnings per share attributable to ICE common stockholders													\$	1.32	\$	1.17
Adjusted diluted earnings per share attributable to ICE common stockholders													\$	1.32	\$	1.16
Basic weighted average common shares outstanding														558		563
Diluted weighted average common shares outstanding														560		565

Amortization of acquisition-related intangibles are included in non-GAAP adjustments as excluding these non-cash expenses provides greater clarity regarding our financial strength and stability of cash operating results.

Transaction and integration costs are included as part of our core business expenses, except for those that are directly related to the announcement, closing, financing, or termination of a transaction. However, we adjust for the acquisition-related transaction and integration costs for acquisitions such as Ellie Mae given the magnitude of the \$11.4 billion purchase price of the acquisition. We also adjusted for the acquisition-related transaction costs related to the merger between Bakkt and VIH, and for our pending acquisition of Black Knight, due to the significance of these transactions.

During the six months ended June 30, 2022, we included an accrual related to a legal settlement as a non-GAAP adjustment, and during the six months and three months ended June 30, 2021, we adjust for a gain related to the settlement of an acquisition-related indemnification claim from a prior acquisition. We do not consider events of this type to be reflective of our core business operations.

During the three months ended June 30, 2022, we exclude the \$30 million of costs associated with the May and June 2022 extinguishment of four series of senior notes that would have matured in 2022 and 2023 using proceeds from our May 2022 issuance of new senior notes as a non-GAAP adjustment. We also exclude \$23 million of interest expense on pre-acquisition-related debt from our May 2022 debt refinancing related to the pending Black Knight acquisition. This adjustment is net of \$5 million of interest income earned on investments from the pre-acquisition debt proceeds. We do not consider these to be part of our normal operations.

During the three months ended June 30, 2022, we exclude the gain on the sale of our Euroclear investment and the related historical dividends received of \$30 million during the six months ended June 30, 2021. During the three months ended June 30, 2021, we exclude the gain on the sale of our Coinbase investment. Such transactions are not considered a part of our core business operations.

We exclude net income/(losses) from our unconsolidated equity method investees for purposes of calculating non-GAAP measures. As of June 30, 2022, this adjustment includes our share of profits or losses from OCC, Bakkt, BondLink and our other equity method investments, and as of June 30, 2021, it included only OCC and BondLink. This is consistent with how we treat changes in the fair value of our equity investments. We believe these adjustments provide greater clarity of our performance, given that equity and equity method investments are non-cash and not a part of our core operations.

The income tax effects relating to all non-GAAP adjustments above are included as non-GAAP adjustments. We also include non-GAAP adjustments for deferred tax adjustments on acquisition-related intangibles. The deferred tax adjustments of \$15 million and \$22 million for the six months and three months ended June 30, 2022, respectively, relate primarily to U.S. state apportionment changes. The deferred tax adjustments of \$197 million and \$196 million for the six months and three months ended June 30, 2021, respectively, relate primarily to future U.K. corporate income tax rate increases.

For additional information on these items, refer to our consolidated financial statements included in this Quarterly Report and "—Consolidated Operating Expenses", above.

Contractual Obligations and Commercial Commitments

During the six months ended June 30, 2022, there were no significant changes to our contractual obligations and commercial commitments from those disclosed in the section "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our 2021 Form 10-K.

Off-Balance Sheet Arrangements

As described in Note 12 to our consolidated financial statements, which are included elsewhere in this Quarterly Report, certain clearing house collateral is reported off-balance sheet. We do not have any relationships with unconsolidated entities or financial partnerships, often referred to as structured finance or special purpose entities.

New and Recently Adopted Accounting Pronouncements

During the six months ended June 30, 2022, there were no significant changes to the new and recently adopted accounting pronouncements applicable to us from those disclosed in Note 2 of our 2021 Form 10-K.

Critical Accounting Policies

During the six months ended June 30, 2022, there were no significant changes to our critical accounting policies and estimates from those disclosed in the section "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our 2021 Form 10-K.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

As a result of our operating and financing activities, we are exposed to market risks such as interest rate risk, foreign currency exchange rate risk and credit risk. We have implemented policies and procedures designed to measure, manage, monitor and report risk exposures, which are regularly reviewed by the appropriate management and supervisory bodies.

Interest Rate Risk

We have exposure to market risk for changes in interest rates relating to our cash and cash equivalents, short-term and long-term restricted cash and cash equivalents, short-term and long-term investments and indebtedness. As of June 30, 2022 and December 31, 2021, our cash and cash equivalents and short-term and long-term restricted cash and cash equivalents were \$7.3 billion and \$2.0 billion, respectively, of which \$283 million and \$276 million, respectively, were denominated in pounds sterling, euros or Canadian dollars, and the remaining amounts are denominated in U.S. dollars. We do not use our investment portfolio for trading or other speculative purposes. A hypothetical 50% decrease in short-term interest rates would decrease our annual pre-tax earnings by \$4 million as of June 30, 2022, assuming no change in the amount or composition of our cash and cash equivalents and short-term and long-term restricted cash and cash equivalents.

As of June 30, 2022, we had \$18.1 billion in outstanding debt, all of which relates to our senior notes. In addition, we have \$4 million outstanding under lines of credit at our ICE India subsidiaries. See Part I, Item 2 "Management's Discussion and

Analysis of Financial Condition and Results of Operations - Debt" and Note 8 to our consolidated financial statements included in this Quarterly Report.

The interest rates on our Commercial Paper Program are currently evaluated based upon current maturities and market conditions. The weighted average interest rate on our Commercial Paper Program was 0.33% as of December 31, 2021. The effective interest rate of commercial paper issuances will continue to fluctuate based on the movement in short-term interest rates along with shifts in supply and demand within the commercial paper market.

Foreign Currency Exchange Rate Risk

As an international business, we are subject to foreign currency exchange rate risk. We may experience gains or losses from foreign currency transactions in the future given that a significant part of our assets and liabilities are recorded in pounds sterling, Canadian dollars or euros, and a significant portion of our revenues and expenses are recorded in pounds sterling or euros. Certain assets, liabilities, revenues and expenses of foreign subsidiaries are denominated in the local functional currency of such subsidiaries. Our exposure to foreign denominated earnings for the six months and three months ended June 30, 2022 and 2021 is presented by primary foreign currency in the following table (dollars in millions, except exchange rates):

	Six Months	Ended 2022	June 30,	Three Months Ended June 30, 2022			Six Months Ended June 30, 2021					Three Months Ended June 3 2021			
	Pound Sterling		Euro		Pound Sterling		Euro		Pound Sterling		Euro		Pound Sterling		Euro
Average exchange rate to the U.S. dollar in the current year period	1.2996		1.0939		1.2568		1.0648		1.3889		1.2057		1.3985		1.2054
Average exchange rate to the U.S. dollar in the same period in the prior year	1.3889		1.2057		1.3985		1.2054		1.2603		1.1018		1.2413		1.1011
Average exchange rate increase/ (decrease)	(6)	%	(9)%		(10)%		(12)%		10 %		9 %		13 %		9 %
Foreign denominated percentage of:															
Revenues, less transaction-based expenses	8	%	7 %		8 %		6 %		7 %		6 %		6 %		6 %
Operating expenses	8 '	%	2 %		8 %		2 %		8 %		2 %		8 %		2 %
Operating income	7 '	%	11 %		7 %		11 %		5 %		10 %		4 %		10 %
Impact of the currency fluctuations (1) on:															
Revenues, less transaction-based expenses	\$ (20)	\$	(24)	\$	(16)	\$	(14)	\$	21	\$	17	\$	12	\$	8
Operating expenses	\$ (10)	\$	(4)	\$	(8)	\$	(3)	\$	13	\$	3	\$	8	\$	1
Operating income	\$ (10)	\$	(20)	\$	(8)	\$	(11)	\$	8	\$	14	\$	4	\$	7

⁽¹⁾ Represents the impact of currency fluctuation for the six months and three months ended June 30, 2022 and 2021 compared to the same periods in the prior year.

We have a significant part of our assets, liabilities, revenues and expenses recorded in pounds sterling or euros. During the six months and three months ended June 30, 2022, 15% and 14%, respectively, of our consolidated revenues, less transaction-based expenses were denominated in pounds sterling or euros and for both the six months and three months ended June 30, 2022, 10% of our consolidated operating expenses were denominated in pounds sterling or euros. As the pound sterling or euro exchange rate changes, the U.S. equivalent of revenues and expenses denominated in foreign currencies changes accordingly.

Foreign currency transaction risk related to the settlement of foreign currency denominated assets, liabilities and payables occurs through our operations, which are received in or paid in pounds sterling, Canadian dollars, or euros, due to the increase or decrease in the foreign currency exchange rates between periods. We incurred foreign currency transaction gains/(losses) of \$9 million for both the six months ended June 30, 2022 and 2021, respectively, and \$4 million and \$3 million for the three months ended June 30, 2022 and 2021, respectively, inclusive of the impact of foreign currency hedging transactions. The foreign currency transaction losses were primarily attributable to the fluctuations of the pound sterling and euro relative to the U.S. dollar. A 10% adverse change in the underlying foreign currency exchange rates as of June 30, 2022, assuming no change in the composition of the foreign currency denominated assets, liabilities and payables and assuming no hedging activity, would result in a foreign currency loss of \$14 million.

We entered into foreign currency hedging transactions during the six months and three months ended June 30, 2022 and 2021 as economic hedges to help mitigate a portion of our foreign exchange risk exposure and may enter into additional hedging transactions in the future to help mitigate our foreign exchange risk exposure. Although we may enter into

additional hedging transactions in the future, these hedging arrangements may not be effective, particularly in the event of imprecise forecasts of the levels of our non-U.S. denominated assets and liabilities.

We have foreign currency translation risk equal to our net investment in our foreign subsidiaries. The financial statements of these subsidiaries are translated into U.S. dollars using a current rate of exchange, with gains or losses included in the cumulative translation adjustment account, a component of equity. Our exposure to the net investment in foreign currencies is presented by primary foreign currencies in the table below (in millions):

	AS OF June 30, 2022						
		ition in Is sterling		osition in dian dollars	Position in euros		
Assets	£	705	\$	3,679	€	170	
of which goodwill represents		555		396		92	
Liabilities		90		3,244		59	
Net currency position	£	615	\$	435	€	111	
Net currency position, in \$USD	\$	749	\$	338	\$	117	
Negative impact on consolidated equity of a 10% decrease in foreign currency exchange rates	\$	75	\$	34	\$	12	

Foreign currency translation adjustments are included as a component of accumulated other comprehensive income/(loss) within our balance sheet. See the table below for the portion of equity attributable to foreign currency translation adjustments as well as the activity for the six months and three months ended June 30, 2022 included within our statement of other comprehensive income. The impact of the foreign currency exchange rate differences in the tables below were primarily driven by fluctuations of the pound sterling as compared to the U.S. dollar which were 1.2178, 1.3141 and 1.3524 as of June 30, 2022, March 31, 2022 and December 31, 2021, respectively, and by fluctuations of the euro as compared to the U.S. dollar which were 1.0483, 1.1067 and 1.1372 as of June 30, 2022, March 31, 2022 and December 31, 2021, respectively.

	Changes in Accumulated Other Comprehensive Loss from Foreign Currency Translation Adjustments (in millions)
Balance, as of December 31, 2021	\$ (150)
Other comprehensive income (loss)	(110)
Income tax benefit (expense)	1
Net current period other comprehensive loss	(109)
Balance, as of June 30, 2022	\$ (259)
	Changes in Accumulated Other Comprehensive Loss from Foreign Currency Translation Adjustments (in millions)
Balance, as of March 31, 2022	Comprehensive Loss from Foreign Currency Translation Adjustments
Balance, as of March 31, 2022 Other comprehensive income (loss)	Comprehensive Loss from Foreign Currency Translation Adjustments (in millions)
•	Comprehensive Loss from Foreign Currency Translation Adjustments (in millions) \$ (175)
Other comprehensive income (loss)	Comprehensive Loss from Foreign Currency Translation Adjustments (in millions) \$ (175)

The future impact on our business relating to the U.K. leaving the EU and the corresponding regulatory changes are uncertain at this time, including future impacts on currency exchange rates.

Credit Risk

We are exposed to credit risk in our operations in the event of a counterparty default. We limit our exposure to credit risk by rigorously selecting the counterparties with which we make our investments, monitoring them on an ongoing basis and executing agreements to protect our interests.

Clearing House Cash Deposit Risks

The ICE Clearing Houses hold material amounts of clearing member margin deposits which are held or invested primarily to provide security of capital while minimizing credit, market and liquidity risks. Refer to Note 12 to our consolidated financial statements for more information on the ICE Clearing Houses' cash and cash equivalent margin deposits and guaranty funds, invested deposits, delivery contracts receivable and unsettled variation margin which were \$167.7 billion as of June 30, 2022. While we seek to achieve a reasonable rate of return which may generate interest income for our clearing members, we are primarily concerned with preservation of capital and managing the risks associated with these deposits. As the ICE Clearing Houses may pass on interest revenues (minus costs) to the clearing members, this could include negative or reduced yield due to market conditions. For a summary of the risks associated with these deposits and how these risks are mitigated, see Part II, Item 7(A) "Quantitative and Qualitative Disclosures About Market Risk" in our 2021 Form 10-K.

ITEM 4. CONTROLS AND PROCEDURES

- (a) Evaluation of Disclosure Controls and Procedures. As of the end of the period covered by this report, an evaluation was carried out by our management, with the participation of our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934). Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that these disclosure controls and procedures were effective as of the end of the period covered by this report.
- (b) Changes in Internal Controls over Financial Reporting. There were no changes in our internal controls over financial reporting that occurred during our most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting. As a result, no corrective actions were taken.

PART II. Other Information

ITEM 1. LEGAL PROCEEDINGS

See Note 13 to the consolidated financial statements and related notes, which are incorporated by reference herein.

ITEM 1(A). RISK FACTORS

During the six months ended June 30, 2022, there were no significant new risk factors from those disclosed in Part I, Item 1A, "Risk Factors" in our 2021 Form 10-K, other than those set forth below under the heading "Risks Relating to the Black Knight Acquisition". In addition to the other information set forth in this Quarterly Report, including the information in the "- Regulation" section of Item 2 - Management's Discussion and Analysis of Financial Condition and Results of Operations and the risk factors set forth below, you should carefully consider the factors discussed under "Risk Factors" and the regulation discussion under "Business - Regulation" in our 2021 Form 10-K. These risks could materially and adversely affect our business, financial condition and results of operations. The risks and uncertainties in our 2021 Form 10-K and those described below are not the only ones facing us. Additional risks and uncertainties not presently known to us, or that we currently believe to be immaterial, may also adversely affect our business.

Risks Relating to the Black Knight Acquisition

The merger will not be completed unless important conditions are satisfied or waived, including approval of the merger agreement by Black Knight's stockholders.

Specified conditions set forth in the merger agreement must be satisfied or waived to complete the merger, including approval of the merger agreement by the affirmative vote of the holders of a majority of the outstanding shares of Black Knight's common stock entitled to vote thereon and the expiration or early termination of the applicable waiting period under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, or the HSR Act. If the conditions are not satisfied or, to the extent permitted by law, waived, the merger will not occur or will be delayed, and we may lose some or all of the intended benefits of the merger. If the merger is not completed, our ongoing businesses, financial condition, financial results and stock price may be materially and adversely affected and, without realizing any of the benefits of having completed the merger, we will be subject to a number of risks, including (i) the market price of our common stock could decline to the extent the current market price reflects an assumption that the merger will be completed; (ii) we could owe a termination fee to Black Knight under certain circumstances; and (iii) we will be required to pay costs relating to the

merger, such as legal, accounting, financial advisory, financing (including the redemption by us of \$5 billion of bonds at 101% of par value) and printing fees.

Regulatory approvals may not be received, may take longer than expected or may impose conditions that are not presently anticipated, that could have an adverse effect on ICE following the merger or that are otherwise unacceptable to ICE.

Completion of the merger is conditioned on, among other things, the expiration or early termination of the waiting period applicable to the consummation of the merger under the HSR Act. There can be no assurance that this condition will be satisfied on a timely basis or at all, or that, if regulatory approvals are granted, they will not result in the imposition of conditions, limitations, obligations or restrictions that have the effect of preventing the completion of the merger, imposing additional material costs on or materially limiting our revenues following the merger or otherwise reducing the anticipated benefits of the merger, or result in the delay or abandonment of the merger. Under the merger agreement, we are not obligated to agree to any structural or behavioral remedy that any government entity may seek to impose.

In addition, at any time before or after the completion of the merger, and notwithstanding the termination of applicable waiting periods, the applicable U.S. antitrust authorities or any state attorney general could take such action under the antitrust laws as any such party deems necessary or desirable in the public interest. Such action could include, among other things, seeking to enjoin the completion of the merger or seeking divestiture of substantial assets of the parties. In addition, in some circumstances, a third party could initiate a private action under antitrust laws challenging, seeking to enjoin, or seeking to impose conditions on the merger. Although we are not obligated under the merger agreement to litigate to defeat such efforts to enjoin the merger under U.S. antitrust laws, we and Black Knight, at our option, may engage in litigation to obtain the clearances, consents, approvals and waivers under U.S. antitrust laws so as to enable the parties to close the merger. We may not prevail and may incur significant costs in defending or settling any such action.

We may be unable to successfully integrate Black Knight's business and realize the anticipated benefits of the merger, and we will incur significant costs in connection with the merger and the integration of Black Knight.

The success of the merger will depend on, among other things, our ability to successfully integrate the business of Black Knight into the ICE Mortgage Technology business in a manner that facilitates growth opportunities, realizes anticipated synergies, and achieves the projected cost savings, revenue growth and profitability targets of the combined businesses without adversely affecting current revenues and investments in future growth. There is a significant degree of difficulty and management distraction inherent in the process of integrating an acquisition, which may involve delays or additional and unforeseen expenses. The integration and other disruptions from the merger may also disrupt our ongoing businesses. If we are not able to successfully achieve our objectives from the merger within the anticipated time frame, or at all, the anticipated benefits may not be realized fully or at all, may take longer to realize than expected, and our business or stock price may be adversely affected.

In connection with the merger and the integration of Black Knight's business, we also expect to incur significant costs. We may incur additional costs or suffer loss of business under third-party contracts of Black Knight that are terminated or that contain change in control or other provisions that may be triggered by the completion of the merger, and/or losses of, or decreases in orders by, customers, and may also incur costs to maintain employee morale and to retain certain key management personnel and employees. These incremental transaction-related costs may exceed the savings and efficiencies we expect to achieve from the integration of the businesses.

As a result of the merger, we will be subject to risks relating to the business conducted by Black Knight.

Following the consummation of the merger, we will be subject to a variety of risks relating to the business conducted by Black Knight, many of which we, and more specifically, ICE Mortgage Technology, already face in our business, as described in Item 1(A) "Risk Factors" included in our 2021 Form 10-K. Some of the specific risks facing Black Knight include risks relating to the mortgage lending industry, including general conditions in the industry; changes in inflation rates and interest rates; changes in current or new regulations and legislation and potential structural changes in the mortgage lending industry; technology risks, including cyber security and data privacy risks relating to Black Knight's services; risks relating to intellectual property held or used by Black Knight; the ability of Black Knight to adequately compete with products or other companies, including through attracting new customers and retaining or selling additional service offerings to existing customers; risks relating to Black Knight's international operations; risks relating to Black Knight's indebtedness; risks relating to Black Knight's investment in Dun & Bradstreet Holdings, Inc.; and risks relating to current and future legal proceedings or disputes involving Black Knight. In connection with any such legal proceeding or other dispute, we could incur significant expenses. An adverse resolution of any such proceeding or dispute may require us to pay substantial damages or impose restrictions on how we conduct business, either of which could adversely affect our business, financial condition and operating results.

In addition, Black Knight is and will continue to be subject to business uncertainties and contractual restrictions while the merger is pending. The occurrence of any of such risks could have a material adverse impact on the financial condition, business or results of operations of Black Knight, which could impair or eliminate our ability to achieve the expected cost savings and synergies from the merger on a timely basis, if ever, or could impair our ability to achieve such cost savings and synergies without adversely affecting our current revenues or investments in future growth. Additionally, such risks could impair our ability to integrate the business of Black Knight with our businesses in an efficient and timely manner, if at all.

After the completion of the merger, we will be more leveraged than we currently are, and the financing arrangements that we will enter into will contain restrictions and limitations that could, under certain circumstances, impact our ability to operate our business.

In connection with the merger, we have incurred approximately \$5 billion of additional indebtedness in the form of senior notes and, assuming that the closing of the merger occurs in the first half of 2023, we intend to incur approximately \$4 billion to \$5 billion in additional indebtedness consisting of commercial paper and term loans, in order to finance a portion of the cash consideration in the merger and related transactions including, without limitation, the refinancing of certain existing indebtedness of Black Knight, and we will assume approximately \$1 billion of Black Knight's outstanding senior notes. After the completion of the merger, we expect to have consolidated indebtedness of approximately \$24 billion. Our increased indebtedness after the completion of the merger may have the effect, among other things, of reducing our flexibility to respond to changing business and economic conditions, requiring us to use increased amounts of cash flow to service indebtedness and increasing our borrowing costs.

In addition, our credit ratings impact the cost and availability of future borrowings, and, as a result, our cost of capital. Each of the ratings organizations reviews our ratings periodically, and there can be no assurance that our current ratings will be maintained in the future. Downgrades in our credit ratings could adversely affect our businesses, cash flows, financial condition and operating results. Furthermore, if the merger is completed and Black Knight's senior notes are downgraded and rated below investment grade by two out of three of Moody's, S&P and Fitch within 60 days following the change of control or the announcement thereof, this may constitute a change of control triggering event under the indenture governing those notes. Upon the occurrence of a change of control triggering event, Black Knight (or we on its behalf) would be required to offer to repurchase those notes at 101% of the principal amount thereof plus accrued and unpaid interest. However, it is possible that Black Knight or we would not have sufficient funds at the time of the change of control triggering event to make the required repurchase of notes or that restrictions in other debt instruments would not allow such repurchase.

We also expect that the agreements governing the indebtedness that we will incur will contain covenants that may, under certain circumstances, place limitations on certain actions that we could seek to undertake, which could impact our ability to operate our business.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Stock Repurchases

The table below sets forth the information with respect to purchases made by or on behalf of ICE or any "affiliated purchaser" (as defined in Rule 10b-18(a)(3) under the Exchange Act) of our common stock during the six months ended June 30, 2022.

Period (2022)	Total number of shares purchased (in thousands)	Average price paid per share	Total number of shares purchased as part of publicly announced plans or programs (in thousands) (1)	Approximate dollar value of shares that may yet be purchased under the plans or programs (in millions) (1)
April 1 - April 30	1,111	\$123.9	4,785	\$2,537
May 1 - May 31	170	\$113.68	4,955	\$2,518
June 1 - June 30		N/A	4,955	\$2,518
Total	1,281	\$122.54	4,955	\$2,518

Three months ended	Total number of shares purchased (in thousands)(1)	Average price paid per share	Amount of repurchases (in millions)	Total cumulative year-to- date shares purchased as part of publicly announced plans or programs (in thousands)	Approximate dollar value of shares that may yet be purchased under the plans or programs (in millions)
March 31, 2022	3,674	\$129.3	\$475	3,674	\$2,675
June 30, 2022	1,281	\$122.54	\$157	4,955	\$2,518
Total (1)	4,955	\$127.56	\$632		

⁽¹⁾ Includes 4.6 million shares at a cost of \$582 million under our Rule 10b5-1 trading plan and 0.4 million shares at a cost of \$50 million on the open market during an open trading period.

Refer to Note 10 to our consolidated financial statements and related notes, which are included elsewhere in this Quarterly Report for details on our stock repurchase plans.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

Not applicable.

ITEM 6. EXHIBITS

Exhibit Number		Description of Document
2.1	_	Agreement and Plan of Merger, dated as of May 4, 2022, among Intercontinental Exchange, Inc., Sand Merger Sub Corporation and Black Knight, Inc. (incorporated by reference to Exhibit 2.1 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 6, 2022, File No. 001-36198).
4.1	—	Fourth Supplemental Indenture dated as of May 23, 2022 between Intercontinental Exchange, Inc., as issuer, and Computershare Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
4.2	_	Form of 3.650% Senior Notes due 2025 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.2 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
4.3	_	Form of 4.000% Senior Notes due 2027 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.3 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
4.4	_	Form of 4.350% Senior Notes due 2029 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.4 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
4.5	_	Form of 4.600% Senior Notes due 2033 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.5 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).

4.6	Form of 4.950% Senior Notes due 2052 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.6 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
4.7	 Form of 5.200% Senior Notes due 2062 (included as an exhibit to the Fourth Supplemental Indenture dated as of May 23, 2022) (incorporated by reference to Exhibit 4.7 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on May 23, 2022, File No. 001-36198).
10.1	 Intercontinental Exchange, Inc. 2022 Omnibus Employee Incentive Plan (incorporated by reference to Exhibit A to Intercontinental Exchange, Inc.'s Definitive Proxy Statement filed on March 25, 2022, File No. 001-36198).
10.2	 Intercontinental Exchange, Inc. 2022 Omnibus Non-Employee Director Incentive Plan (incorporated by reference to Exhibit B to Intercontinental Exchange, Inc.'s Definitive Proxy Statement filed on March 25, 2022, File No. 001-36198).
10.3	The Eleventh Amendment, dated as of May 11, 2022, by and among Intercontinental Exchange, Inc., as borrower, the lenders party thereto and Wells Fargo Bank, National Association, as administrative agent, amending that certain Credit Agreement, dated as of April 3, 2014, by and among Intercontinental Exchange, Inc., as borrower, the lenders party thereto and Wells Fargo Bank, National Association, as administrative agent (as amended by the First Amendment to Credit Agreement, dated as of May 15, 2015, the Second Amendment to Credit Agreement, dated as of November 9, 2015, the Third Amendment to Credit Agreement, dated as of August 18, 2017, the Fifth Amendment to Credit Agreement, dated as of August 18, 2017, the Fifth Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of March 8, 2021 and the Tenth Amendment to Credit Agreement, dated as of October 15, 2021).
10.4	The Twelfth Amendment, dated as of May 25, 2022, by and among Intercontinental Exchange, Inc., as borrower, the lenders party thereto and Wells Fargo Bank, National Association, as administrative agent, amending that certain Credit Agreement, dated as of April 3, 2014, by and among Intercontinental Exchange, Inc., as borrower, the lenders party thereto and Wells Fargo Bank, National Association, as administrative agent (as amended by the First Amendment to Credit Agreement, dated as of May 15, 2015, the Second Amendment to Credit Agreement, dated as of November 9, 2015, the Third Amendment to Credit Agreement, dated as of November 13, 2015, the Fourth Amendment to Credit Agreement, dated as of August 18, 2017, the Fifth Amendment to Credit Agreement, dated as of August 18, 2017, the Sixth Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of March 8, 2021, the Tenth Amendment to Credit Agreement, dated as of May 11, 2022) (incorporated by reference to Exhibit 10.1 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on June 1, 2022, File No. 001-36198).
10.5	— Term Loan Credit Agreement, dated as of May 25, 2022, by and among Intercontinental Exchange, Inc., as borrower, the lenders party thereto and Wells Fargo Bank, National Association, as administrative agent (incorporated by reference to Exhibit 10.2 to Intercontinental Exchange, Inc.'s Current Report on Form 8-K filed with the SEC on June 1, 2022, File No. 001-36198).
31.1	— Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer.
31.2	— Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer.
32.1	Section 1350 Certification of Chief Executive Officer.
32.2	Section 1350 Certification of Chief Financial Officer.
101	The following materials from Intercontinental Exchange, Inc.'s Quarterly Report on Form 10-Q for the quarter ended June 30, 2022, formatted in Inline XBRL (Extensible Business Reporting Language): (i) the Consolidated Balance Sheets, (ii) the Consolidated Statements of Income, (iii) the Consolidated Statements of Comprehensive Income, (iv) the Consolidated Statements of Changes in Equity and Redeemable Non-Controlling Interest (v) Consolidated Statements of Cash Flows and (vi) Notes to Consolidated Financial Statements, tagged as blocks of text.
104	 The cover page from Intercontinental Exchange, Inc.'s Quarterly Report on Form 10-Q for the quarter ended June 30, 2022 formatted in Inline XBRL.

^{*} Certain exhibits and similar attachments to this agreement have been omitted in accordance with Item 601(b)(2) of Regulation S-K. A copy of any omitted exhibit or other attachment will be furnished supplementally to the SEC upon request.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

Intercontinental Exchange, Inc. (Registrant)

Date: August 4, 2022

By: /s/ A. Warren Gardiner

A. Warren Gardiner Chief Financial Officer (Principal Financial Officer)

ELEVENTH AMENDMENT TO CREDIT AGREEMENT

This **ELEVENTH AMENDMENT TO CREDIT AGREEMENT** (this "<u>Amendment</u>"), dated as of May 11, 2022 is entered into by and among **INTERCONTINENTAL EXCHANGE**, **INC.**, a Delaware corporation (the "<u>Borrower</u>"), the Lenders (as hereinafter defined) party hereto, and **WELLS FARGO BANK**, **NATIONAL ASSOCIATION**, as Administrative Agent.

RECITALS

- A. The Borrower, the several lenders from time to time party thereto (the "Lenders"), and the Administrative Agent are party to the Credit Agreement, dated as of April 3, 2014 (as amended by the First Amendment to Credit Agreement, dated as of May 15, 2015, the Second Amendment to Credit Agreement, dated as of November 9, 2015, the Third Amendment to Credit Agreement, dated as of August 18, 2017, the Fifth Amendment to Credit Agreement, dated as of August 18, 2017, the Sixth Amendment to Credit Agreement, dated as of August 9, 2018, the Seventh Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of August 21, 2020, the Ninth Amendment to Credit Agreement, dated as of March 8, 2021, and the Tenth Amendment to Credit Agreement, dated as of October 15, 2021, the "Credit Agreement"). Capitalized terms used but not defined herein shall have the meanings assigned to such terms in the Credit Agreement as amended by this Amendment.
- B. The Borrower has requested that the Required Lenders amend the Credit Agreement and the Required Lenders are willing to consent to such amendments to the Credit Agreement on the terms and subject to conditions set forth herein.

STATEMENT OF AGREEMENT

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

ARTICLE I

AMENDMENTS TO CREDIT AGREEMENT

Effective upon the Eleventh Amendment Effective Date (as hereinafter defined), the Credit Agreement is hereby amended as follows:

1.1 The following new definitions are hereby inserted in Section 1.1 of the Credit Agreement in proper alphabetical order:

""Black Knight" means Black Knight, Inc., a Delaware corporation."

""<u>Black Knight Acquisition</u>" means the proposed merger of Sand Merger Sub Corporation, a Delaware corporation and a Subsidiary of the Borrower, with and into Black Knight, with Black Knight surviving the merger as a Subsidiary of the Borrower, pursuant to the Black Knight Acquisition Agreement."

""Black Knight Acquisition Agreement" means the Agreement and Plan of Merger, dated as of May 4, 2022, among the Borrower, Sand Merger Sub Corporation, and Black Knight (including all schedules and exhibits thereto)."

- "Black Knight Acquisition Agreement Representations" has the meaning given to such term in Section 3.3(e).
- ""Black Knight Acquisition Date" means the date on which the Black Knight Acquisition is consummated."
- "Black Knight Acquisition Related Conditions" means the conditions set forth in Sections 3.3(a), 3.3(b), 3.3(c), 3.3(d), 3.3(e), 3.3(f), 3.3(g), 3.3(h) and 3.3(k)."
- ""<u>Black Knight Borrower Stock Contribution</u>" means the issuance and sale by the Borrower of its common equity securities to the equityholders of Black Knight in connection with the Black Knight Acquisition."
- ""<u>Black Knight Borrowing</u>" means a Borrowing of Revolving Loans in Dollars the proceeds of which are to be used to (i) finance a portion of the consideration paid by the Borrower to consummate the Black Knight Acquisition, (ii) refinance all or a portion of the existing Indebtedness of Black Knight and its Subsidiaries, and/or (iii) pay fees, costs, commissions and expenses in connection with the Black Knight Transactions."
- ""Black Knight Bridge Arrangers" means Wells Fargo Securities, LLC and Goldman Sachs Bank USA."
- ""Black Knight Bridge Facility" means that certain senior unsecured bridge credit facility providing for up to \$14,000,000,000 in senior unsecured bridge loans available to the Borrower arranged by the Black Knight Bridge Arrangers and used to (i) finance a portion of the consideration paid by the Borrower to consummate the Black Knight Acquisition, (ii) refinance all or a portion of the existing Indebtedness of Black Knight and its Subsidiaries, and/or (iii) pay fees, costs, commissions and expenses in connection with the Black Knight Transactions, all as contemplated in that certain commitment letter, dated as of May 4, 2022, among Wells Fargo, Goldman Sachs Lending Partners LLC, the Black Knight Bridge Arrangers and the Borrower."
- ""Black Knight Transactions" means, collectively, (a) the Black Knight Acquisition, (b) the issuance or incurrence of Indebtedness (including the making of Loans) to finance a portion of the consideration paid by the Borrower to consummate the Black Knight Acquisition, (c) the issuance of Capital Stock of the Borrower to the stockholders of Black Knight as consideration for the Black Knight Acquisition, (d) the refinancing of all or a portion of the existing Indebtedness of Black Knight and its Subsidiaries, (e) the preparation, execution and delivery of the Eleventh Amendment of this Agreement, (f) the preparation, execution and delivery of the Twelfth Amendment of this Agreement, (g) the preparation, execution and delivery of the definitive documentation relating to the Term Loan Facility, and (h) the payment of fees, costs, commissions and expenses in connection with each of the foregoing."
- ""<u>Eleventh Amendment</u>" means that certain Eleventh Amendment to Credit Agreement, dated as of May 11, 2022, among the Borrower, the Administrative Agent and the Lenders party thereto."
- ""Eleventh Amendment Effective Date" means May 11, 2022."
- ""Eleventh Amendment Initial Arranger" means Wells Fargo Securities, LLC."
- ""Pre-Closing Funded Amount" has the meaning given to such term in Section 2.23."

- ""<u>Pre-Closing Funding Account</u>" means an account in the name of (i) the Administrative Agent or an Affiliate of the Administrative Agent or (ii) a financial institution (in its capacity as escrow agent) designated by the Administrative Agent and approved by the Borrower, which account has been identified as the "Pre-Closing Funding Account" by notice in writing from the Borrower to the Administrative Agent, and which account shall have terms reasonably satisfactory to the Administrative Agent and the Borrower."
- ""Pre-Closing Funding Date" means the Business Day specified as such in a Notice of Borrowing in which a Pre-Closing Funding Election has been made."
- ""<u>Pre-Closing Funding Election</u>" means an election by the Borrower to cause the Pre-Closing Funded Amount to be funded into the Pre-Closing Funding Account on the Pre-Closing Funding Date pursuant to **Section 2.23**."
- ""Return Date" has the meaning given to such term in Section 2.23."
- ""Second Step Down Date" means, with respect to any Qualified Acquisition or Specified Qualified Acquisition that is the subject of an Acquisition Election, the last day of the second fiscal quarter ending after the First Step Down Date with respect to such Acquisition."
- "<u>Term Loan Facility</u>" means that certain senior unsecured delayed draw term loan facility providing for up to \$2,000,000,000 in term loans available to the Borrower to be used to (i) finance a portion of the consideration paid by the Borrower to consummate the Black Knight Acquisition, (ii) refinance all or a portion of the existing Indebtedness of Black Knight and its Subsidiaries, and/or (iii) pay fees, costs, commissions and expenses in connection with the Black Knight Transactions, all as contemplated in that certain Project Monty Commitment Letter, dated as of May 4, 2022, among Wells Fargo, Wells Fargo Securities, LLC, Goldman Sachs Bank USA and the Borrower."
- 1.2 Each of the following definitions in Section 1.1 of the Credit Agreement is hereby amended as follows:
- (a) The definition of "Aggregate Dollar Revolving Credit Exposure" is hereby amended by (i) replacing the word "and" at the end of clause (ii) thereof substituting therefor a comma and (ii) replacing the period at the end of such definition with the following: "and (iv) the aggregate amount of the Pre-Closing Funded Amount funded on account of Dollar Revolving Loans that is held in the Pre-Closing Funding Account at such time."
- (b) The definition of "Aggregate Multicurrency Revolving Credit Exposure" is hereby amended by (i) replacing the word "and" at the end of clause (ii) thereof substituting therefor a comma and (ii) replacing the period at the end of such definition with the following: "and (iv) the aggregate amount of the Pre-Closing Funded Amount funded on account of Multicurrency Revolving Loans that is held in the Pre-Closing Funding Account at such time."
- (c) The definition of "Dollar Revolving Credit Exposure" is hereby amended by (i) replacing the word "and" at the end of clause (ii) thereof substituting therefor a comma and (ii) replacing the period at the end of such definition with the following: "and (iv) the aggregate amount of any portion of the Pre-Closing Funded Amount funded by such Lender on account of Dollar Revolving Loans that is held in the Pre-Closing Funding Account at such time."
 - (d) The definition of "First Step Down Date" is hereby amended and restated in its entirety as follows:

"First Step Down Date" means (i) with respect to the Black Knight Acquisition, the last day of the second fiscal quarter ending after the fiscal quarter in which the Black Knight Acquisition Date occurs (or the last day of the third fiscal quarter ending after the fiscal quarter in which the Black Knight Acquisition Date occurs if the Black Knight Acquisition Date occurs in the second half of such fiscal quarter) and (ii) with respect to any Qualified Acquisition or Specified Qualified Acquisition that is the subject of an Acquisition Election, the last day of the second fiscal quarter ending after the fiscal quarter in which such Acquisition is consummated (or the last day of the third fiscal quarter ending after the fiscal quarter in which such Acquisition is consummated if such Acquisition is consummated in the second half of such fiscal quarter)."

- (e) The definition of "Multicurrency Revolving Credit Exposure" is hereby amended by (i) replacing the word "and" at the end of clause (ii) thereof substituting therefor a comma and (ii) replacing the period at the end of such definition with the following: "and (iv) the aggregate amount of any portion of the Pre-Closing Funded Amount funded by such Lender on account of Multicurrency Revolving Loans that is held in the Pre-Closing Funding Account at such time."
- (f) The definition of "Revolving Credit Exposure" is hereby amended by (i) replacing the word "and" at the end of clause (ii) thereof substituting therefor a comma and (ii) replacing the period at the end of such definition with the following: "and (iv) the aggregate Dollar Amount of any portion of the Pre-Closing Funded Amount funded by such Lender that is held in the Pre-Closing Funding Account at such time."
 - 1.3 Section 1.1 of the Credit Agreement is hereby amended by amending and restating the following definition:

""Total Leverage Ratio" means, with respect to any Reference Period, the ratio of (i) Consolidated Total Funded Debt as of the last day of such Reference Period to (ii) Consolidated EBITDA for such Reference Period; provided that Consolidated Total Funded Debt shall not include (x) Indebtedness permitted pursuant to Section 7.2(iv), 7.2(v) or 7.2(vi) except to the extent such Indebtedness has been outstanding, as of such determination date, for more than 45 days since the borrowing thereof and (y) any Indebtedness incurred (1) to repay, prepay, redeem, repurchase, discharge, defease or otherwise refinance other Indebtedness (solely in the amount necessary for such repayment, prepayment, redemption, repurchase, discharge, defeasance or other refinancing) to the extent the proceeds of such Indebtedness are earmarked for such purpose and actually so applied or (2) at any time prior to the date of consummation of an Acquisition (or the date that is 30 days following the date of termination of the related acquisition agreement), to the extent that the net proceeds of such Indebtedness are held as cash or Cash Equivalents by the Borrower (or any Subsidiary thereof) (whether held in deposit or securities accounts or otherwise) to finance such Acquisition until the consummation of such Acquisition (or the date that is 30 days following the date of termination of the related acquisition agreement) and such proceeds are required to be applied to repay, prepay, redeem, repurchase, discharge or defease such Indebtedness in the event such Acquisition is not consummated (or the related acquisition agreement is terminated). For the avoidance of doubt, for purposes of determining the Total Leverage Ratio at any time prior to the Black Knight Acquisition Date (or the date that is 30 days following the date of termination of the Black Knight Acquisition Agreement), Consolidated Total Funded Debt shall not include any Indebtedness incurred or issued by the Borrower on or prior to the Black Knight Acquisition Date to the extent that the net proceeds of such Indebtedness are held as cash or Cash Equivalents by the Borrower (or any subsidiary thereof) (whether held in deposit or securities accounts or otherwise) to finance the Black Knight Acquisition until the consummation of the Black Knight Acquisition (or the date that is 30 days following the date of termination of the Black

Knight Acquisition Agreement) and such proceeds are required to be applied to repay, prepay, redeem, repurchase, discharge or defease such Indebtedness in the event the Black Knight Acquisition is not consummated (or the Black Knight Acquisition Agreement is terminated)."

- 1.4 Section 2.9(a)(iii) of the Credit Agreement is hereby amended by deleting the first word thereof and replacing it with the following:
 - "(iii) Subject to **Section 2.23**, to"
- 1.5 Section 2.9(a)(iv) of the Credit Agreement is hereby amended by deleting the first word thereof and replacing it with the following:
 - "(iv) Subject to Section 2.23, to"
 - 1.6 Article II of the Credit Agreement is hereby amended by inserting a new Section 2.23 as follows:
 - "2.23 Pre-Funding of Black Knight Acquisition Date Borrowings. Notwithstanding any provision in this Agreement to the contrary, if the Borrower requests a Black Knight Borrowing, the Borrower may make a Pre-Closing Funding Election by specifying such election in the Notice of Borrowing delivered in respect of such Revolving Loans (which Notice of Borrowing shall also specify the anticipated Black Knight Acquisition Date). Such Notice of Borrowing shall be delivered (i) not later than 12:00 noon, Charlotte, North Carolina time, three Eurocurrency Banking Days prior to the Pre-Closing Funding Date, for Revolving Loans to be comprised of Eurocurrency Rate Loans, (ii) not later than 12:00 noon, Charlotte, North Carolina time, on the Pre-Closing Funding Date for Revolving Loans to be comprised of Base Rate Loans and (iii) not later than 12:00 noon, Charlotte, North Carolina time, five (5) RFR Business Days prior to each Borrowing of RFR Loans. If a Pre-Closing Funding Election has been made, subject solely to the satisfaction, or waiver in accordance with the terms of this Agreement, of each of the conditions set forth in Section 3.3 other than the Black Knight Acquisition Related Conditions, each Lender shall, not later than 1:00 p.m., Charlotte, North Carolina time, on the requested Pre-Closing Funding Date set forth in the Notice of Borrowing, fund into the Pre-Closing Funding Account an amount, in immediately available funds, equal to the amount of the Revolving Loan or Revolving Loans to be made by such Lender (such amounts, the "Pre-Closing Funded Amount") pursuant to the applicable Notice of Borrowing. Each Lender authorizes the Administrative Agent to release all amounts deposited by the Lenders into the Pre-Closing Funding Account and make such funds available to the Borrower on the Black Knight Acquisition Date subject solely to the satisfaction (or waiver in accordance with the terms of this Agreement) of the Black Knight Acquisition Related Conditions, whereupon the Administrative Agent will make the Pre-Closing Funded Amount available to the Borrower in accordance with Section 2.3 and in like funds as received by the Administrative Agent. Interest shall accrue on the Pre-Closing Funded Amount from and including the Pre-Closing Funding Date as if the Pre-Closing Funded Amount had been advanced to the Borrower as one or more Revolving Loans hereunder, and no commitment fees pursuant to Section 2.9(a)(iii) or 2.9(a)(iv) shall accrue on any date on which the Pre-Closing Funded Amount is held in the Pre-Closing Funding Account in respect of the applicable Commitment of any Lender attributable to the portion of the Pre-Closing Funded Amount funded by such Lender. In the event the satisfaction (or waiver in accordance with the terms of this Agreement) of all conditions set forth in Section 3.3 does not occur by 1:00 p.m., Charlotte, North Carolina time, on or before the date that is three Business Days after the anticipated Black Knight Acquisition Date specified in the Notice of Borrowing (or such longer

period not to exceed three additional Business Days as may be agreed between the Borrower and the Administrative Agent in the event of a delay in the anticipated Black Knight Acquisition Date) (the "Return Date"), the Pre-Closing Funded Amount shall be returned to the respective Lenders on the Return Date, and the Borrower shall simultaneously therewith pay interest accrued thereon from the Pre-Closing Funding Date to the Return Date, together with any amounts due thereon pursuant to Section 2.17, calculated as if the return of such funds was a prepayment of Loans in an equal principal amount on the Return Date; provided that for the avoidance of doubt and notwithstanding anything to the contrary in this Agreement, if the entire Pre-Closing Funded Amount has been returned to the Lenders in accordance with this sentence, the Borrower shall not be prohibited from submitting a subsequent Notice of Borrowing in respect of Revolving Loans to be used to (i) finance a portion of the consideration paid by the Borrower to consummate the Black Knight Acquisition, (ii) refinance certain existing Indebtedness of Black Knight and its Subsidiaries, and/or (iii) pay fees, costs, commissions and expenses in connection with each of the foregoing, in accordance with Section 2.23 ror the avoidance of doubt, (x) the funding of the Pre-Closing Funded Amount shall not constitute a Borrowing of Loans by the Borrower until such amount has been released to the Borrower on the Black Knight Acquisition Date in accordance with this Section 2.23, and (y) any return of the Pre-Closing Funded Amount to the Lenders in accordance with this Section 2.23 shall not constitute a prepayment of any Revolving Loans."

- 1.7 Article III of the Credit Agreement is hereby amended by inserting a new Section 3.3 as follows:
- "3.3 <u>Conditions of Borrowing for Black Knight Acquisition</u>. Notwithstanding anything to the contrary contained herein (including in **Section 3.2**) or in any other Credit Document, the obligation of each Lender (i) to make any Revolving Loans as a portion of a Black Knight Borrowing is subject to the satisfaction (or waiver by the Black Knight Acquisition Date, and (ii) to pre-fund any Revolving Loans as a portion of a Black Knight Borrowing is subject to the satisfaction (or waiver by the Black Knight Bridge Arrangers) of the following conditions precedent, and only the following conditions precedent (in each case in this clause (ii), other than the Black Knight Acquisition Related Conditions), on the Pre-Closing Funding Date:
- (a) The Borrowing of such Loans shall occur on the Black Knight Acquisition Date, which shall be on or before the earlier to occur of (i) the termination or expiration of the Black Knight Acquisition Agreement in accordance with its terms, and (ii) the "Outside Date" (as defined in the Black Knight Acquisition Agreement as in effect on May 4, 2022 as such date may be extended in accordance with the Black Knight Acquisition Agreement as in effect on May 4, 2022;
- (b) The Administrative Agent shall have received a certificate of the chief financial officer of the Borrower as to the solvency of the Borrower and its Subsidiaries, on a consolidated basis, after giving effect to the Black Knight Transactions, in the form of **Exhibit F**;
- (c) Since the date of the Black Knight Acquisition Agreement, no event, circumstance, occurrence, effect, fact, development or change has had, or would reasonably be expected to have, a "Material Adverse Effect" (as defined in the Black Knight Acquisition Agreement);

- (d) The Black Knight Acquisition shall have been consummated substantially concurrently with the Borrowing of such Loans, and substantially in accordance with the terms and conditions of the Black Knight Acquisition Agreement without giving effect to any waiver, modification or consent thereunder that is materially adverse to the Lenders or the Eleventh Amendment Initial Arranger (as reasonably determined by the Eleventh Amendment Initial Arranger) unless approved by the Eleventh Amendment Initial Arranger (which approval shall not be unreasonably withheld, conditioned or delayed), it being understood and agreed that, without limiting the generality of the foregoing, (1) any decrease in the Black Knight Acquisition consideration shall not be materially adverse to the Lenders or the Eleventh Amendment Initial Arranger so long as such decrease is allocated to reduce the Borrower Stock Contribution and the Black Knight Bridge Facility on a pro rata, dollar-for-dollar basis, (2) any increase in the purchase price shall not be materially adverse to the Lenders or the Eleventh Amendment Initial Arranger so long as such increase is funded solely by an increase in the amount of the Capital Stock of the Borrower issued to the equityholders of Black Knight as consideration for the Black Knight Acquisition and (3) any change to the definition of "Material Adverse Effect" or the "Xerox" provisions shall be deemed to be a modification which is materially adverse to the Lenders and the Eleventh Amendment Initial Arranger;
- (e) The representations and warranties made by or with respect to Black Knight and its Subsidiaries in the Black Knight Acquisition Agreement as are material to the interests of the Lenders (the "Black Knight Acquisition Agreement Representations") shall be true and correct, but only to the extent that the Borrower or any of its Affiliates has the right to terminate its or its Subsidiaries' obligations under the Black Knight Acquisition Agreement, or to decline to consummate the Black Knight Acquisition pursuant to the Black Knight Acquisition Agreement, as result of a breach of any such representations and warranties or any such representations and warranties not being accurate (in each case, determined without regard to any notice requirement). The representations and warranties of the Borrower set forth in Sections 4.1(i), 4.1(ii) (but only with respect to the Borrower's power and authority to execute, deliver and perform the Credit Documents to which it is a party), 4.2, 4.3 (but only with respect to clause (i) therein), 4.7, 4.11, 4.12 (but only with respect to the Borrower's use of proceeds) and 4.13 shall be true and correct in all material respects (except that any representation and warranty qualified as to materiality or Material Adverse Effect shall be true and correct in all respects);
- (f) The Black Knight Bridge Arrangers will have received (i) copies of audited consolidated balance sheets and related statements of income, stockholders' equity and cash flows for the Borrower and its subsidiaries for the three fiscal years most recently ended at least 90 days prior to the Black Knight Acquisition Date (or such lesser time applicable to the Borrower as the annual report deadline under the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder) and interim unaudited consolidated balance sheets and related statements of income, stockholders' equity and cash flows for each subsequent quarterly period after the date of the last audited financial statements pursuant to this clause (i) (other than the fourth fiscal quarter of any fiscal year) ended at least 45 days prior to the Black Knight Acquisition Date (or such lesser time applicable to the Borrower as the quarterly report deadline under the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder) (it being understood and acknowledged that the audited consolidated balance sheets and related statements of income, stockholders' equity and cash flows for the Borrower and its subsidiaries filed with the SEC, as of the date hereof, for the three years ended December 31 2019, 2020 and 2021 and for the three months ended March 31, 2022 satisfy the obligation to provide such financial information for the periods covered by

such filings), and (ii) copies of all financial statements of Black Knight delivered to the Borrower pursuant to the Black Knight Acquisition Agreement.

- (g) No Event of Default under **Section 8.l(a)**, **8.l(f)** or **8.l(g)**, nor any "event of default" or similar condition under the Black Knight Bridge Facility, the Term Loan Facility, or any other Indebtedness in excess of the Threshold Amount in the aggregate (but only insofar as such "event of default" or similar condition relates to bankruptcy or insolvency, or the nonpayment of principal, interest or fees) shall have occurred and be continuing on such date, both immediately before and immediately after giving effect to the Loans to be made on such date;
- (h) On the Black Knight Acquisition Date, after giving effect to the Black Knight Transactions, the obligations of Black Knight and its subsidiaries under that certain Second Amended and Restated Lien Credit and Guaranty Agreement, dated as of March 10, 2021 (as amended, restated, supplemented or otherwise modified from time to time), among Black Knight Infoserv, LLC, a Delaware limited liability company (the "Acquired Company Borrower"), Black Knight Financial Services, LLC, a Delaware limited liability company, each subsidiary of the Acquired Company Borrower from time to time party thereto as guarantors, the lenders from time party thereto, JPMorgan Chase Bank, N.A., as the administrative agent, a swing line lender and a L/C/ issuer, Bank of America, as a swing line lender and a L/C issuer, and U.S. Bank National Association, as a swing line lender a L/C issuer, shall have been repaid in full and all guarantees and security interest shall have been terminated and released;
 - (i) The Administrative Agent shall have received a Notice of Borrowing in accordance with Section 2.2(b);
- (j) The aggregate principal of such Loans shall not exceed the aggregate Unutilized Commitments at such time (determined without giving effect to such Loans); and
- (k) All fees and (to the extent invoiced at least two Business Days prior to the Black Knight Acquisition Date) expenses due to the Eleventh Amendment Initial Arranger, the Administrative Agent and the Lenders required to be paid on the Black Knight Acquisition Date (including the fees and expenses of counsel for the Eleventh Amendment Initial Arranger and the Administrative Agent) will have been paid."
- 1.8 Article IV of the Credit Agreement is hereby amended by inserting a new Section 4.13 as follows:
- "4.13 <u>Solvency.</u> In the event (and only in the event) that any Borrowing is requested to be made on the Black Knight Acquisition Date in accordance with **Section 3.3**, immediately after giving effect to the consummation of the Black Knight Transactions on the applicable Borrowing Date, the Borrower and its Subsidiaries on a consolidated basis will be solvent. For purposes of the preceding sentence, "solvent" means that (i) the fair value of the assets of the Borrower and it is Subsidiaries on a consolidated basis, at a fair valuation, will exceed the debts and liabilities, direct, subordinated, contingent or otherwise, of the Borrower and its Subsidiaries on a consolidated basis will be greater than the amount that will be required to pay the probable liability of the Borrower and its Subsidiaries on a consolidated basis on their debts and other liabilities, direct, subordinated, contingent or otherwise, as such debts and other liabilities become absolute and matured; (iii) the Borrower and its Subsidiaries on a consolidated basis will be able to pay their debts and liabilities, direct, subordinated, contingent or

otherwise, as such debts and liabilities become absolute and matured; and (iv) the Borrower and its Subsidiaries on a consolidated basis will not have unreasonably small capital with which to conduct the businesses in which they are engaged as such businesses are now conducted and are proposed to be conducted following the Black Knight Acquisition Date. As of the Black Knight Acquisition Date, immediately after giving effect to the consummation of the Black Knight Transactions, the Borrower does not intend to, and the Borrower does not believe that it or any of its Subsidiaries will, incur debts beyond its ability to pay such debts as they mature, taking into account the timing and amounts of cash to be received by it or any such Subsidiary and the timing and amounts of cash to be payable on or in respect of its debts or the debts of any such Subsidiary."

- 1.9 Article VI of the Credit Agreement is hereby amended by amending and restating Section 6.1 thereof in its entirety as follows:
 - "6.1 <u>Maximum Total Leverage Ratio</u>. The Total Leverage Ratio as of the last day of any fiscal quarter shall not be greater than the ratio of 3.75 to 1.00; <u>provided</u>, that, if the Black Knight Acquisition Date shall have occurred, the Total Leverage Ratio as of the last day of any fiscal quarter set forth below shall not be greater than the ratio set forth opposite such date below:

Date	Total Leverage Ratio
The last day of each fiscal quarter beginning with the fiscal quarter in which the Black Knight Acquisition Date occurs and ending prior to the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each of the first and second fiscal quarters ending on or after the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each of the third and fourth fiscal quarters ending on or after the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each of the fifth and sixth fiscal quarters ending on or after the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each of the seventh and eighth fiscal quarters ending on or after the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each of the ninth and tenth fiscal quarters ending on or after the First Step Down Date with respect to the Black Knight Acquisition	
The last day of each fiscal quarter ending thereafter	3.75:1.00

provided that (i) at any time after the Eleventh Amendment Effective Date (but subject to clause (iv) below), at the election of the Borrower (the notice of which election shall be given in writing to the Administrative Agent within thirty (30) days after the date on which the relevant Acquisition is consummated), the maximum Total Leverage Ratio shall be increased to 4.25:1.00 in connection with a Qualified Acquisition consummated after the Eleventh Amendment Effective Date, starting with the last day of the fiscal quarter in which such Qualified Acquisition is consummated (a "Qualified Acquisition Election"); provided that the maximum Total Leverage Ratio shall step down to 4.00:1.00

as of the First Step Down Date with respect to such Qualified Acquisition and shall step down to 3.75:1.00 as of the Second Step Down Date with respect to such Qualified Acquisition; (ii) at the election of the Borrower (the notice of which election shall be given in writing to the Administrative Agent within thirty (30) days after the date on which the relevant Acquisition is consummated), the maximum Total Leverage Ratio shall be increased to 4.50:1.00 in connection with any Specified Qualified Acquisition consummated after the Eleventh Amendment Effective Date starting with the fiscal quarter in which such Specified Qualified Acquisition is consummated; provided that the maximum Total Leverage Ratio shall step down to 4.25:1.00 as of the First Step Down Date with respect to such Specified Qualified Acquisition, shall step down again to 4.00:1.00 as of the Second Step Down Date with respect to such Specified Qualified Acquisition and shall step down again to 3.75:1.00 at the end of the second full fiscal quarter after the Second Step Down Date with respect to such Specified Qualified Acquisition (a "Specified Qualified Acquisition Election" and, together with any Qualified Acquisition Election, an "Acquisition Election"); (iii) the Borrower may make after the Eleventh Amendment Effective Date (A) no more than two (2) Acquisition Elections and (B) no more than one (1) Specified Qualified Acquisition Election; and (iv)(A) if the Black Knight Acquisition has not occurred, the Borrower may not make its second Acquisition Election until the earlier of (1) the last day of the first fiscal quarter occurring after the first Acquisition Election as of which the maximum Total Leverage Ratio as of the end of such fiscal quarter must be no greater than 3.75:1:00 and (2) the last day of the first fiscal quarter occurring after the first Acquisition Election as of which the Borrower reports an actual Total Leverage Ratio as of the end of such fiscal quarter equal to or less than 3.50:1.00, and (B) if the Black Knight Acquisition has occurred, (1) the Borrower may not make any Acquisition Election following the Black Knight Acquisition Date until the earlier of (x) the last day of the first fiscal quarter occurring after the Black Knight Acquisition Date as of which the maximum Total Leverage Ratio as of the end of such fiscal quarter must be no greater than 3.75:1:00 and (y) the last day of the first fiscal quarter of the Borrower occurring after the Black Knight Acquisition Date as of which the Borrower reports an actual Total Leverage Ratio as of the end of such fiscal quarter equal to or less than 3.50:1.00, and (2) if the Borrower has made an initial Acquisition Election following the Black Knight Acquisition Date, the Borrower may not make a second Acquisition Election after the Black Knight Acquisition Date until the earlier of (x) the last day of the first fiscal quarter occurring after the first Acquisition Election as of which the maximum Total Leverage Ratio as of the end of such fiscal quarter must be no greater than 3.75:1:00 and (y) the last day of the first fiscal quarter of the Borrower occurring after the first Acquisition Election as of which the Borrower reports an actual Total Leverage Ratio as of the end of such fiscal quarter equal to or less than 3.50:1.00. For the avoidance of doubt, the increase in the maximum Total Leverage Ratio in connection with the Black Knight Acquisition Date shall not be deemed to be an Acquisition Election."

1.10 Section 10.2 of the Credit Agreement is hereby amended by amending and restating clause (a) thereof in its entirety as follows:

"(a) This Agreement and the other Credit Documents shall (except as may be expressly otherwise provided in any Credit Document) be governed by, and construed in accordance with, the law of the State of New York (including Sections 5-1401 and 5-1402 of the New York General Obligations Law, but excluding all other choice of law and conflicts of law rules); provided that each Letter of Credit shall be governed by, and construed in accordance with, the laws or rules designated in such Letter of Credit or application therefor or, if no such laws or rules are designated, the International Standby Practices of the International Chamber of Commerce, as in effect from time to time (the "ISP"), and, as to matters not governed by the ISP, the laws of the State of New York

(including Sections 5-1401 and 5-1402 of the New York General Obligations Law, but excluding all other choice of law and conflicts of law rules); provided further that, notwithstanding the foregoing, (i) the interpretation of the definition of "Material Adverse Effect" (as defined in the Black Knight Acquisition Agreement) and whether a "Material Adverse Effect" (as defined in the Black Knight Acquisition Agreement) has occurred, (ii) the determination of the accuracy of any Black Knight Acquisition Agreement Representation and whether as a result of any inaccuracy thereof the Borrower has the right to terminate its or its Subsidiaries' obligations pursuant to the Black Knight Acquisition Agreement or to decline to consummate the Black Knight Acquisition pursuant to the Black Knight Acquisition Agreement, and (iii) the determination of whether the Black Knight Acquisition has been consummated in accordance with the terms of the Black Knight Acquisition Agreement, in each case, shall be governed by, and construed in accordance with, the laws of the State of Delaware without regard to the conflicts of law rules of such state."

1.11 A new Exhibit F to the Credit Agreement is hereby added in the form of Exhibit F attached hereto and the list of exhibits following the Table of Contents of the Credit Agreement is hereby amended by adding a reference to "Exhibit F Form of Solvency Certificate".

ARTICLE II

CONDITIONS OF EFFECTIVENESS

2.1 The amendments set forth in **Article I** shall become effective as of the date (the "<u>Eleventh Amendment Effective Date</u>") when, and only when, the Administrative Agent shall have received an executed counterpart of this Amendment from each of the Borrower and Lenders constituting the Required Lenders.

ARTICLE III

REPRESENTATIONS AND WARRANTIES

The Borrower hereby represents and warrants, on and as of the Eleventh Amendment Effective Date, that (i) the representations and warranties contained in the Credit Agreement (except the representation set forth in Section 4.8 thereof with respect to clauses (i) and (ii) of the definition of "Material Adverse Effect" only) and the other Credit Documents qualified as to materiality are true and correct and those not so qualified are true and correct in all material respects, both immediately before and after giving effect to this Amendment (except to the extent any such representation or warranty is expressly stated to have been made as of a specific date, in which case such representation or warranty is true and correct (if qualified as to materiality) or true and correct in all material respects (if not so qualified), in each case only on and as of such specific date), (ii) this Amendment has been duly authorized, executed and delivered by the Borrower and constitutes the legal, valid and binding obligation of the Borrower enforceable against it in accordance with its terms except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors' rights generally, by general equitable principles or by principles of good faith and fair dealing (regardless of whether enforcement is sought in equity or at law) and (iii) no Default or Event of Default shall have occurred and be continuing on the Eleventh Amendment Effective Date, both immediately before and immediately after giving effect to this Amendment and the amendments contemplated hereby.

ARTICLE IV

ACKNOWLEDGEMENT AND CONFIRMATION

Each party to this Amendment hereby confirms and agrees that, after giving effect to this Amendment and the amendments contemplated hereby, and except as expressly modified hereby, the Credit Agreement and the other Credit Documents to which it is a party remain in full force and effect and enforceable against such party in accordance with their respective terms and shall not be discharged, diminished, limited or otherwise affected in any respect.

ARTICLE V

MISCELLANEOUS

- 5.1 <u>Governing Law.</u> This Amendment shall be governed by and construed and enforced in accordance with the laws of the State of New York (including Sections 5-1401 and 5-1402 of the New York General Obligations Law, but excluding all other choice of law and conflicts of law rules).
- 5.2 <u>Credit Document</u>. As used in the Credit Agreement, "hereinafter," "hereto," "hereof," and words of similar import shall, unless the context otherwise requires, mean the Credit Agreement after amendment by this Amendment. Any reference to the Credit Agreement or any of the other Credit Documents herein or in any such documents shall refer to the Credit Agreement and the other Credit Documents as amended hereby. This Amendment is limited to the matters expressly set forth herein, and shall not constitute or be deemed to constitute an amendment, modification or waiver of any provision of the Credit Agreement except as expressly set forth herein. This Amendment shall constitute a Credit Document under the terms of the Credit Agreement.
- 5.3 <u>Expenses</u>. The Borrower shall pay all reasonable and documented out-of-pocket fees and expenses of counsel to the Administrative Agent in connection with the preparation, negotiation, execution and delivery of this Amendment.
- 5.4 <u>Severability</u>. To the extent any provision of this Amendment is prohibited by or invalid under the applicable law of any jurisdiction, such provision shall be ineffective only to the extent of such prohibition or invalidity and only in any such jurisdiction, without prohibiting or invalidating such provision in any other jurisdiction or the remaining provisions of this Amendment in any jurisdiction.
- 5.5 <u>Successors and Assigns</u>. This Amendment shall be binding upon, inure to the benefit of and be enforceable by the respective successors and permitted assigns of the parties hereto.
- 5.6 <u>Construction</u>. The headings of the various sections and subsections of this Amendment have been inserted for convenience only and shall not in any way affect the meaning or construction of any of the provisions hereof.
- 5.7 <u>Counterparts; Integration</u>. This Amendment may be executed and delivered via facsimile or electronic mail with the same force and effect as if an original were executed and may be signed in any number of counterparts, each of which shall be an original, with the same effect as if the signatures hereto were upon the same instrument. The words "execution," "signed," "signature," and words of like import in this Amendment shall be deemed to include electronic signatures or the keeping of records in electronic form, each of which shall be of the

same legal effect, validity or enforceability as a manually executed signature or the use of a paper-based recordkeeping system, as the case may be, to the extent and as provided for in any applicable law, including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act, or any other similar state laws based on the Uniform Electronic Transactions Act. For the avoidance of doubt, the authorization under this paragraph may include, without limitation, use or acceptance by the Administrative Agent of a manually signed letter which has been converted into electronic form (such as scanned into ".pdf" format), or an electronically signed letter converted into another format, for transmission, delivery and/or retention. This Amendment constitutes the entire contract among the parties hereto with respect to the subject matter hereof and supersedes any and all prior agreements and understandings, oral or written, relating to the subject matter hereof.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF as of the date first above written.	, the parties hereto have caused this Amendment to be executed by their duly authorized officers
	INTERCONTINENTAL EXCHANGE INC.
	By:/s/Martin Hunter Name:Martin Hunter Title:SVP, Tax & Treasurer

WELLS FARGO BANK, NATIONAL ASSOCIATION, as the Primary Administrative Agent, the Multicurrency Agent, an Issuing Lender, a Swingline Lender and a Lender

By: <u>/s</u>	S/Jocelyn Boll	
Name: _	Jocelyn Boll	_
Title:	Managing Director	

Lender
By: <u>/s/Sherman Wong</u>
Name: Sherman Wong
Title: <u>Director</u>
SIGNATURE PAGE TO ELEVENTH AMENDMENT TO CREDIT AGREEMENT

BANK OF AMERICA, N.A., as the Backup Administrative Agent, a Swingline Lender and a

JPMORGAN CHASE BANK, N.A., as a Lender

By:/	s/Ibrahim Khan	
Name:	Ibrahim Khan	
Title:	Vice President	

MUFG Bank, Ltd., as a Lender

By:/	s/Jacob Ulevich
Name:	Jacob Ulevich
Title:	Director

CITIBANK, N.A., as a Lender

By:/	s/Ciaran Small	
Name:	Ciaran Small	
Title:	Vice President	

CREDIT SUISSE AG, NEW YORK BRANCH, as a Lender

By: /s/Judith Smith	
Name: Judith Smith	
Title: Authorized Signatory	
By: <u>/s/Doreen Barr</u>	
Name: <u>Doreen Barr</u>	
Title: <u>Authorized Signatory</u>	_

BANCO BILBAO VIZCAYA ARGENTARIA, S.A. NEW YORK BRANCH, as a Lender

By: <u>/s/Brian Crowley</u>
Name: Brian Crowley
Title: <u>Managing Director</u>
By: /s/Andrew Pargament
Name: Andrew Pargament
Title: Executive Director

Bank of Montreal, as a Lender

By: /s/Kathryn Mester

Name: Kathryn Mester

Title: Vice President

FIFTH THIRD BANK, NATIONAL ASSOCIATION, as a Lender

By:/	s/Jonathan James
Name:	Jonathan James
Title:	Managing Director

MIZUHO BANK, LTD., as a Lender

By: /s/Raymond Ventura

Name: Raymond Ventura

Title: Managing Director

PNC Bank, as a Lender

By: <u>/s/Avery Walker</u>
Name: <u>Avery Walker</u>
Title: <u>Assistant Vice President</u>

GOLDMAN SACHS BANK USA, as a Lender

By:/	s/Robert Ehudin	
Name:	Robert Ehudin	
Title:	Authorized Signatory	

SOCIETE GENERALE, as a Lender

By: <u>/s/Jonathan Logan</u>		
Name: <u>Jonathan Logan</u>		
Title: Managing Director		

Exhibit F

Form of Solvency Certificate

[], 2022

This Solvency Certificate is delivered pursuant to Section 3.3(b) of the Credit Agreement, dated as of April 3, 2014 (as amended by the First Amendment to Credit Agreement, dated as of May 15, 2015, the Second Amendment to Credit Agreement, dated as of November 9, 2015, the Third Amendment to Credit Agreement, dated as of November 13, 2015, the Fourth Amendment to Credit Agreement, dated as of August 18, 2017, the Fifth Amendment to Credit Agreement, dated as of August 18, 2017, the Sixth Amendment to Credit Agreement, dated as of August 9, 2018, and the Seventh Amendment to Credit Agreement, dated as of August 14, 2020, the Eighth Amendment to Credit Agreement, dated as of August 21, 2020, the Ninth Amendment to Credit Agreement, dated as of March 8, 2021, the Tenth Amendment to Credit Agreement, dated as of October 15, 2021, the Eleventh Amendment to Credit Agreement, dated as of May 11, 2022, and as the same may be further amended, restated, amended and restated, supplemented or otherwise modified, the "Credit Agreement"), among INTERCONTINENTAL EXCHANGE, INC., a Delaware corporation (the "Borrower"), the lenders party hereto from time to time, and WELLS FARGO BANK, NATIONAL ASSOCIATION, as Administrative Agent. Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the Credit Agreement.

The undersigned hereby certifies, solely in his capacity as an officer of the Borrower and not in his individual capacity, as follows:

- 1. I am the Chief Financial Officer of the Borrower. I am familiar with the Black Knight Transactions, and have reviewed the Credit Agreement, financial statements referred to in Section 3.3(f) of the Credit Agreement and such documents and made such investigation as I have deemed relevant for the purposes of this Solvency Certificate.
- 2. As of the date hereof, immediately after giving effect to the consummation of the Black Knight Transactions, on and as of such date (i) the fair value of the assets of the Borrower and it is Subsidiaries on a consolidated basis, at a fair valuation, will exceed the debts and liabilities, direct, subordinated, contingent or otherwise, of the Borrower and its Subsidiaries on a consolidated basis will be greater than the amount that will be required to pay the probable liability of the Borrower and its Subsidiaries on a consolidated basis on their debts and other liabilities, direct, subordinated, contingent or otherwise, as such debts and other liabilities become absolute and matured; (iii) the Borrower and its Subsidiaries on a consolidated basis will be able to pay their debts and liabilities, direct, subordinated, contingent or otherwise, as such debts and liabilities become absolute and matured; and (iv) the Borrower and its subsidiaries on a consolidated basis will not have unreasonably small capital with which to conduct the businesses in which they are engaged as such businesses are now conducted and are proposed to be conducted following the Black Knight Acquisition Date.
- 3. As of the date hereof, immediately after giving effect to the consummation of the Black Knight Transactions, the Borrower does not intend to, and the Borrower does not believe that it or any of its Subsidiaries will, incur debts beyond its ability to pay such debts as they mature, taking into account the timing and amounts of cash to be received by it or any such subsidiary and the timing and amounts of cash to be payable on or in respect of its debts or the debts of any such Subsidiary.

This Solvency Certificate is being delivered by the undersigned officer only in his capacity as Chief Financial Officer of the Borrower and not individually and the undersigned shall have no personal liability to the Administrative Agent or the Lenders with respect thereto.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the under	rsigned has executed this Solven	cy Certificate on the date	first written above.
	INTERCONTINENTAL EXCH	HANGE, INC.	

By:		
Name:		
Title:	Chief Financial Officer	_

CERTIFICATIONS

I, Jeffrey C. Sprecher, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Intercontinental Exchange, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 4, 2022

/s/ Jeffrey C. Sprecher

Jeffrey C. Sprecher Chair of the Board and Chief Executive Officer

CERTIFICATIONS

I, A. Warren Gardiner, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Intercontinental Exchange, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 4, 2022

/s/ A. Warren Gardiner

A. Warren Gardiner Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Intercontinental Exchange, Inc. (the "Company") on Form 10-Q for the period ended June 30, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jeffrey C. Sprecher, Chair of the Board and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: August 4, 2022

/s/ Jeffrey C. Sprecher

Jeffrey C. Sprecher Chair of the Board and Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Intercontinental Exchange, Inc. (the "Company") on Form 10-Q for the period ended June 30, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, A. Warren Gardiner, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: August 4, 2022

/s/ A. Warren Gardiner

A. Warren Gardiner Chief Financial Officer