# Notes to Consolidated Financial Statements (Unaudited)

## Fair Value of Cash Instruments by Level

\$ in millions

The table below presents cash instrument assets and liabilities at fair value by level within the fair value hierarchy.

Level 1

Level 2 Level 3

Total

φ 111 11111110115		everi		Level 2	Level 3	TOtal
As of March 2019						
Assets						
Money market instruments	\$ '	1,111	\$	1,648	\$ -	\$ 2,759
Government and agency obligations						
U.S.		7,043		30,152	25	107,220
Non-U.S.	3	7,421		14,326	16	51,763
Loans and securities backed by: Commercial real estate				2,662	1,011	3,673
Residential real estate		_		12,476	554	13,030
Corporate debt instruments		1.044		26,552	4,252	31,848
State and municipal obligations		_		775	37	812
Other debt obligations		_		1,025	614	1,639
Equity securities	79	9,076		10,664	11,426	
Commodities				3,462	_	3,462
Subtotal	\$19	5,695	\$	103,742	\$17,935	\$317,372
Investments in funds at NAV						4,036
Total cash instrument assets						\$321,408
Liabilities						
Government and agency obligations						
U.S.		9,160		(9)		\$ (9,169)
Non-U.S.	(1.	7,315	)	(1,947)	-	(19,262)
Loans and securities backed by: Commercial real estate		_		(1)	_	(1)
Residential real estate		_		(1)		(1)
Corporate debt instruments		(1)	)	(7,630)		
Other debt obligations		`-		(2)		(2)
Equity securities	(24	1,040	)	(350)	(23	(24,413)
Total cash instrument liabilities	\$ (50	0,516	\$ (	(9,940)	\$ (159	) <b>\$</b> (60,615)
A D						
As of December 2018						
Assets	Φ.	1 400	Φ	1 1 1 1 0	Φ.	Ф 0.00Г
Money market instruments Government and agency obligations		1,489	Ф	1,146	Ф –	\$ 2,635
U.S.		2,264		28,327	25	110,616
Non-U.S.		3,231		10,366	10	43,607
Loans and securities backed by:				,		•
Commercial real estate		-		2,350	1,019	3,369
Residential real estate		_		12,286	663	12,949
Corporate debt instruments		468		26,515	4,224 23	31,207
State and municipal obligations Other debt obligations		_		1,210 1,326	538	1,233 1,864
Equity securities	51	- 2,989		12,456	10,725	76,170
Commodities	0.2	_,000		3,729	-	3,729
Subtotal	\$170	0.441	\$	99.711	\$17.227	\$287,379
Investments in funds at NAV	•	-,	_		+ ,== .	3,936
Total cash instrument assets						\$291,315
Liabilities						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Government and agency obligations	3.					
U.S.		5,067	\$	(13)	\$ -	\$ (5,080)
Non-U.S.		3,872		(1,475)		(25,347)
Loans and securities backed by						
residential real estate		-		(1)		(1)
Corporate debt instruments		(4)	)	(10,376)		
Other debt obligations	(0)	- - 147		(1)		(1)
Equity securities  Total cash instrument liabilities		5,147		(298)		
	a. 12	וונאוו וי	1 Y.	(12, 164)	\$ (49)	\$ (66,303)

### In the table above:

- Cash instrument assets are included in financial instruments owned and cash instrument liabilities are included in financial instruments sold, but not yet purchased.
- Cash instrument assets are shown as positive amounts and cash instrument liabilities are shown as negative amounts.
- Money market instruments includes commercial paper, certificates of deposit and time deposits, substantially all of which have a maturity of less than one year.
- Corporate debt instruments includes corporate loans and debt securities.
- Equity securities includes public and private equities, exchange-traded funds and convertible debentures.
- As of both March 2019 and December 2018, substantially all level 3 equity securities consisted of private equity securities.

## Significant Unobservable Inputs

The table below presents the amount of level 3 assets, and ranges and weighted averages of significant unobservable inputs used to value level 3 cash instruments.

Level 3 Assets and Range of Significant Unobservable Inputs (Weighted Average) as of

\$ in millions	March 2019	December 2018
Loans and securities	backed by commercial rea	al estate
Level 3 assets	\$1.011	\$1,019
Yield	4.0% to 22.0% (11.6%)	
Recovery rate	7.4% to 77.2% (44.3%)	
Duration (years)	0.7 to 5.5 (3.5)	0.4 to 7.1 (3.7)
Loans and securities	backed by residential real	estate
Level 3 assets	\$554	\$663
Yield	0.8% to 20.0% (8.8%)	2.6% to 19.3% (9.2%)
Cumulative loss rate	2.1% to 34.2% (17.6%)	8.3% to 37.7% (19.2%)
Duration (years)	1.2 to 16.4 (6.8)	1.4 to 14.0 (6.7)
Corporate debt instru	ments	
Level 3 assets	\$4,252	\$4,224
Yield	1.5% to 24.1% (12.2%)	0.7% to 32.3% (11.9%)
Recovery rate	0.0% to 73.0% (55.5%)	0.0% to 78.0% (57.8%)
Duration (years)	0.3 to 6.3 (3.0)	0.4 to 13.5 (3.4)
<b>Equity securities</b>		
Level 3 assets	\$11,426	\$10,725
Multiples	0.8x to 26.0x (6.6x)	1.0x to 23.6x (8.1x
Discount rate/yield	6.0% to 22.1% (14.5%)	6.5% to 22.1% (14.3%)
Capitalization rate	3.7% to 12.6% (5.9%)	3.5% to 12.3% (6.1%)
Other cash instrumer	nts	
Level 3 assets	\$692	\$596
Yield	2.5% to 12.7% (9.2%)	4.1% to 11.5% (9.2%)
Duration (years)	2.0 to 5.7 (3.2)	2.2 to 4.8 (2.8)

# **Notes to Consolidated Financial Statements** (Unaudited)

The tables below present the gross fair value and the notional amounts of derivative contracts by major product type, the amounts of counterparty and cash collateral netting in the consolidated statements of financial condition, as well as cash and securities collateral posted and received under enforceable credit support agreements that do not meet the criteria for netting under U.S. GAAP.

	As of Ma	rch 2019	As of December 20			
\$ in millions	Derivative Assets	Derivative Liabilities	Derivative Assets	Derivative Liabilities		
Not accounted for as	hedges					
Exchange-traded	\$ 601	\$ 1,255	\$ 760	\$ 1,553		
OTC-cleared	7,219	5,973	5,040	3,552		
Bilateral OTC	247,629	229,113	227,274	211,091		
Total interest rates	255,449	236,341	233,074	216,196		
OTC-cleared	5,703	5,215	4,778	4,517		
Bilateral OTC	14,338	14,324	14,658	13,784		
Total credit	20,041	19,539	19,436	18,301		
Exchange-traded OTC-cleared	11	14	11	16		
Bilateral OTC	698 79,011	602 77,888	656 85,772	800 87,953		
Total currencies	79,720	78,504	86,439	88,769		
Exchange-traded		2,546	4,445	4,093		
OTC-cleared	2,729 305	2,546 317	4,445	4,093		
Bilateral OTC	7,951	10,548	12,746	15,595		
Total commodities	10,985	13,411	17,624	20,127		
Exchange-traded	11,061	11,029	13,431	11,765		
Bilateral OTC	33,821	41,397	34,687	40,668		
Total equities	44,882	52,426	48,118	52,433		
Subtotal	411,077	400,221	404,691	395,826		
Accounted for as hedge	ges					
OTC-cleared	-	-	2	-		
Bilateral OTC	3,208	4	3,024	7		
Total interest rates	3,208	4	3,026	7		
OTC-cleared	53	36	25	53		
Bilateral OTC	84	17	54	61		
Total currencies	137	53	79	114		
Subtotal	3,345	57	3,105	121		
Total gross fair value	\$ 414,422	\$ 400,278	\$ 407,796	\$ 395,947		
Offset in consolidated						
Exchange-traded OTC-cleared		\$ (11,820) (11,928)				
Bilateral OTC	(11,928) (297,392)	(297,392)	(8,888) (290,961)	(8,888) (290,961)		
Counterparty netting	(321,140)	(321,140)	(314,226)	(314,226)		
OTC-cleared						
Bilateral OTC	(1 bus)	(7)	(1.389)			
	(1,605) (49,810)	(7) (38,799)	(1,389) (47,335)			
Cash collateral netting	(49,810)	(38,799)		(38,963)		
Cash collateral netting Total amounts offset	(49,810) g (51,415)		(47,335)	(38,963)		
	(49,810) g (51,415) \$(372,555)	(38,799) (38,806) \$(359,946)	(47,335) (48,724) \$(362,950)	(38,963) (39,127) \$(353,353)		
Total amounts offset	(49,810) g (51,415) \$(372,555)	(38,799) (38,806) \$(359,946)	(47,335) (48,724) \$(362,950)	(38,963) (39,127) \$(353,353)		
Total amounts offset Included in consolidat	(49,810) g (51,415) \$(372,555) ed stateme	(38,799) (38,806) \$(359,946) ents of finan	(47,335) (48,724) \$(362,950) cial conditi	(38,963) (39,127) \$(353,353) <b>on</b>		
Total amounts offset Included in consolidat Exchange-traded	(49,810) g (51,415) \$(372,555) ed stateme \$ 2,582 445 38,840	(38,799) (38,806) \$(359,946) ints of finan \$ 3,024 208 37,100	(47,335) (48,724) \$(362,950) cial conditi \$ 4,270	(38,963) (39,127) \$(353,353) on \$ 3,050		
Total amounts offset Included in consolidat Exchange-traded OTC-cleared Bilateral OTC Total	(49,810) g (51,415) \$(372,555) ted stateme \$ 2,582 445 38,840 \$ 41,867	(38,799) (38,806) \$(359,946) ints of finan \$ 3,024 208 37,100 \$ 40,332	(47,335) (48,724) \$(362,950) <b>icial conditi</b> \$ 4,270 657 39,919 \$ 44,846	(38,963) (39,127) \$(353,353) <b>on</b> \$ 3,050 309 39,235 \$ 42,594		
Total amounts offset Included in consolidat Exchange-traded OTC-cleared Bilateral OTC Total Not offset in consolidat	(49,810) g (51,415) \$(372,555) ed stateme \$ 2,582 445 38,840 \$ 41,867 ated statem	(38,799) (38,806) \$(359,946) ints of finan \$ 3,024 208 37,100 \$ 40,332 ents of fina	(47,335) (48,724) \$(362,950) <b>icial conditi</b> \$ 4,270 657 39,919 \$ 44,846 <b>ncial conditi</b>	\$ 3,050 309 39,235 \$ 42,594 <b>ion</b>		
Total amounts offset Included in consolidat Exchange-traded OTC-cleared Bilateral OTC Total Not offset in consolidat Cash collateral	(49,810) g (51,415) \$(372,555) ed stateme \$ 2,582 445 38,840 \$ 41,867 ated statem \$ (599)	(38,799) (38,806) \$(359,946) ints of finan \$ 3,024 208 37,100 \$ 40,332 ents of fina \$ (1,391)	(47,335) (48,724) \$(362,950) <b>icial conditi</b> \$ 4,270 657 39,919 \$ 44,846 <b>ncial condit</b> \$ (614)	(38,963) (39,127) \$(353,353) on \$ 3,050 39,235 \$ 42,594 ion \$ (1,328)		
Total amounts offset Included in consolidat Exchange-traded OTC-cleared Bilateral OTC Total Not offset in consolidat	(49,810) g (51,415) \$(372,555) ed stateme \$ 2,582 445 38,840 \$ 41,867 ated statem	(38,799) (38,806) \$(359,946) ints of finan \$ 3,024 208 37,100 \$ 40,332 ents of fina	(47,335) (48,724) \$(362,950) <b>icial conditi</b> \$ 4,270 657 39,919 \$ 44,846 <b>ncial conditi</b>	(38,963) (39,127) \$(353,353) on \$ 3,050 309 39,235 \$ 42,594 ion		

	Notional Amounts as of			
\$ in millions	March 2019	December 2018		
Not accounted for as hedges				
Exchange-traded	\$ 5,814,243	\$ 5,139,159		
OTC-cleared	19,542,492	14,290,327		
Bilateral OTC	14,860,761	12,858,248		
Total interest rates	40,217,496	32,287,734		
OTC-cleared	386,010	394,494		
Bilateral OTC	741,127	762,653		
Total credit	1,127,137	1,157,147		
Exchange-traded	7,396	5,599		
OTC-cleared	112,778	113,360		
Bilateral OTC	7,208,580	6,596,741		
Total currencies	7,328,754	6,715,700		
Exchange-traded	261,210	259,287		
OTC-cleared	1,425	1,516		
Bilateral OTC	237,984	244,958		
Total commodities	500,619	505,761		
Exchange-traded	712,848	635,988		
Bilateral OTC	1,104,537	1,070,211		
Total equities	1,817,385	1,706,199		
Subtotal	50,991,391	42,372,541		
Accounted for as hedges				
OTC-cleared	90,907	85,681		
Bilateral OTC	11,946	12,022		
Total interest rates	102,853	97,703		
OTC-cleared	3,397	2,911		
Bilateral OTC	7,231	8,089		
Total currencies	10,628	11,000		
Subtotal	113,481	108,703		
Total notional amounts	\$51,104,872	\$42,481,244		

In the tables above:

- Gross fair values exclude the effects of both counterparty netting and collateral, and therefore are not representative of the firm's exposure.
- · Where the firm has received or posted collateral under credit support agreements, but has not yet determined such agreements are enforceable, the related collateral has not been netted.
- Notional amounts, which represent the sum of gross long and short derivative contracts, provide an indication of the volume of the firm's derivative activity and do not represent anticipated losses.
- Total gross fair value of derivatives included derivative assets of \$9.27 billion as of March 2019 and \$10.68 billion as of December 2018, and derivative liabilities of \$15.77 billion as of March 2019 and \$14.58 billion as of December 2018, which are not subject to an enforceable netting agreement or are subject to a netting agreement that the firm has not yet determined to be enforceable.

# Notes to Consolidated Financial Statements (Unaudited)

### **Loans and Lending Commitments**

The table below presents the difference between the aggregate fair value and the aggregate contractual principal amount for loans and long-term receivables for which the fair value option was elected.

	As of		
\$ in millions	March 2019	December 2018	
Performing loans and long-term receivables			
Aggregate contractual principal in excess of fair value	\$ 824	\$1,837	
Loans on nonaccrual status and/or more than 90 c	lays past	due	
Aggregate contractual principal in excess of fair value Aggregate fair value of loans on nonaccrual status	\$7,220	\$5,260	
and/or more than 90 days past due	\$2,381	\$2,010	

In the table above, the aggregate contractual principal amount of loans on nonaccrual status and/or more than 90 days past due (which excludes loans carried at zero fair value and considered uncollectible) exceeds the related fair value primarily because the firm regularly purchases loans, such as distressed loans, at values significantly below the contractual principal amounts.

The fair value of unfunded lending commitments for which the fair value option was elected was a liability of \$38 million as of March 2019 and \$45 million as of December 2018, and the related total contractual amount of these lending commitments was \$7.27 billion as of March 2019 and \$7.72 billion as of December 2018. See Note 18 for further information about lending commitments.

### **Long-Term Debt Instruments**

The difference between the aggregate contractual principal amount and the related fair value of long-term other secured financings for which the fair value option was elected was not material as of both March 2019 and December 2018. The aggregate contractual principal amount of unsecured long-term borrowings for which the fair value option was elected exceeded the related fair value by \$1.96 billion as of March 2019 and \$3.47 billion as of December 2018. The amounts above include both principal-protected and non-principal-protected long-term borrowings.

# Impact of Credit Spreads on Loans and Lending Commitments

The estimated net gain attributable to changes in instrument-specific credit spreads on loans and lending commitments for which the fair value option was elected was \$77 million for the three months ended March 2019 and \$108 million for the three months ended March 2018. The firm generally calculates the fair value of loans and lending commitments for which the fair value option is elected by discounting future cash flows at a rate which incorporates the instrument-specific credit spreads. For floating-rate loans and lending commitments, substantially all changes in fair value are attributable to changes in instrument-specific credit spreads, whereas for fixed-rate loans and lending commitments, changes in fair value are also attributable to changes in interest rates.

# **Debt Valuation Adjustment**

The firm calculates the fair value of financial liabilities for which the fair value option is elected by discounting future cash flows at a rate which incorporates the firm's credit spreads.

The table below presents information about the net DVA gains/(losses) on financial liabilities for which the fair value option was elected.

	Three Months Ended March				
\$ in millions	2019	2018			
DVA (pre-tax)	\$(1,889)	\$359			
DVA (net of tax)	\$(1,417)	\$270			

#### In the table above:

- DVA (net of tax) is included in debt valuation adjustment in the consolidated statements of comprehensive income.
- The gains/(losses) reclassified to earnings from accumulated other comprehensive income/(loss) upon extinguishment of such financial liabilities were not material for both the three months ended March 2019 and March 2018.

#### **Pillar 3 Disclosures**

Direct equity investments and equity investments in leveraged investment funds are risk weighted in accordance with the SRWA in accordance with the table below.

Risk Weight Investment Category

Kisk weight	investment Category
20%	An equity exposure to a Public Sector Entity (PSE), Federal Home Loan Bank (FHLB) or Farmer Mac
100%	Community development equity exposures Non-significant equity exposures to the extent that the aggregate adjusted carrying value of the exposures does not exceed 10% of our Tier 1 capital plus Tier 2 capital
250%	Significant common stock investments in financial institutions which are not deducted from capital
300%	A publicly traded equity exposure (other than an equity exposure that receives a 600% risk weight)
400%	A private equity exposure (other than an equity exposure that receives a 600% risk weight)
600%	An equity exposure to an investment firm that (i) would meet the definition of a traditional securitization but for the fact that the investment firm can exercise control over the size and composition of their assets, liabilities, and off-balance-sheet exposures, and (ii) has greater than immaterial leverage

Risk weights are applied to the "adjusted carrying value" of the equity exposure. For on-balance-sheet positions, the adjusted carrying value is the same as the balance sheet carrying value. For our unfunded equity investment commitments, the adjusted carrying value is a percentage of the notional amount, based on the estimated funding of the commitment during economic downturn conditions.

Although the SRWA assigns specific risk weights to different types of equity exposures as set out above, the regulations allow for "non-significant equity exposures" to be risk weighted at 100% to the extent they do not exceed in the aggregate 10% of our Tier 1 plus Tier 2 capital, with the remaining portion then risk weighted as appropriate in accordance with the SRWA. Generally, those equity exposures that would attract the lowest risk weights under SRWA are required to be treated as non-significant equity exposures, before inclusion of any equity exposures that would otherwise attract higher risk weights under SRWA.

The table below presents the adjusted carrying values and RWAs for our equity exposures in the banking book.

As of

Table 7: Equity Exposures in the Banking Book

\$ in millions		Septe	mb	er 2019
	Adjusted Carrying Value <sup>1, 3</sup>	Risk Weight		RWAs
Simple Risk Weight Approach (SRWA)				
Equity exposures to a PSE, FHLB or Farmer Mac	\$ 51	20%	\$	10
Community development equity exposures	2,028	100%		2,028
Non-significant equity exposures	9,997	100%		9,997
Significant investments in the common stock of nonconsolidated financial institutions	5,046	250%		12,615
Publicly traded equity exposures <sup>2</sup>	-	300%		-
Private equity exposures <sup>2</sup> Equity exposures in leveraged	6,373	400%		25,492
investment funds	357	600%		2,142
Total SRWA	\$ 23,852		\$	52,284
Simple Modified Look-Through Approach (SMLTA)				
Equity Exposures to Investment Funds	1,335			1,588
Total SMLTA	\$ 1,335		\$	1,588
Total	\$ 25,187		\$	53,872

- The adjusted carrying value of the equity exposures includes \$1.32 billion representing a percentage of our unfunded commitment exposure.
- Our publicly traded and a portion of our private equity exposures are risk weighted as non-significant equity exposures.
- 3. Adjusted carrying value consists of \$1.95 billion of publicly traded and \$23.23 billion of private equity exposures.

#### **Pillar 3 Disclosures**

The table below presents the exposure amount and related RWAs of our banking book securitizations, including onbalance-sheet (retained or purchased) and off-balance-sheet exposures, broken out between traditional and synthetic securitizations, by underlying exposure type.

Exposure amounts below represent the associated EAD as calculated and defined by the regulatory rules, and are not comparable to securitization measures reported in "Note 11. Securitization Activities" in Part I, Item 1 "Financial Statements" in our Quarterly Report on Form 10-Q.

Table 8: Securitization Exposures and Related RWAs by Exposure Type

\$ in millions			As	of September 2019		
	<u> </u>		Exposur	e Amount (EAD)		
	On-balance-she	et EAD	Off-balance	-sheet EAD		
	Tradition	Traditional EAD		Synthetic EAD	Total EAD	RWAs
Residential mortgages	\$	2,010	\$ -	\$ -	\$ 2,010	\$ 1,731
Commercial mortgages		5,367	482	-	5,849	1,794
Corporates		1,952	1,860	4,443	8,255	2,275
Asset-backed and other		2,830	3,103	-	5,933	1,562
OTC Derivatives facing SSPEs <sup>1</sup>				53	53	114
Total	\$	12,159	\$ 5,445	\$ 4,496	\$ 22,100	\$ 7,476

<sup>1.</sup> Represents counterparty credit risk charges on trading book OTC derivative transactions that face securitization SPEs. See "Market Risk – Specific Risk – Securitization Positions" for further information on our trading book exposures.

The table below presents the aggregate amount of our banking book securitization exposures further categorized by risk-based capital approach and risk-weight bands.

Exposure amounts below represent the associated EAD, as calculated and defined by the regulatory rules.

Table 9: Securitization Exposures and Related RWAs by Regulatory Capital Approach

\$ in millions						A	s of Septemb	er 2019						
	SFA				 SSF	Α		1,250	percent	risk w	eight	Tota	al	
		EAD		RWAs	EAD		RWAs		EAD	F	RWAs	EAD		RWAs
0% - 25%	\$	5,309	\$	1,062	\$ 13,073	\$	2,639	\$	-	\$	-	\$ 18,382	\$	3,701
26% - 100%		413		249	1,816		718		-		-	2,229		967
101% - 250%		167		261	1,185		1,860		-		-	1,352		2,121
251% - 650%		39		119	68		203		-		-	107		322
651% - 1,250%		30		361	 -		4		-			30		365
Total	\$	5,958	\$	2,052	\$ 16,142	\$	5,424	\$	-	\$	-	\$ 22,100	\$	7,476

# **Index of References**

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# **Management Report**

## **Investing & Lending**

Investing & Lending includes direct investments made by the company, which are typically longer-term in nature, and net revenues associated with providing investing services to other GS Group entities.

**Three Months Ended August 2019 versus September 2018.** Net revenues in Investing & Lending were \$75 million for the three months ended August 2019, 19% higher than the three months ended September 2018.

Nine Months Ended August 2019 versus September 2018. Net revenues in Investing & Lending were \$287 million for the nine months ended August 2019, 20% lower than the nine months ended September 2018, primarily due to significantly lower net gains from investments in debt instruments.

### **Investment Management**

Investment Management provides investment management and wealth advisory services, including portfolio management and financial counselling, and brokerage and other transaction services to high-net-worth individuals and families. Investment Management also includes net revenues associated with providing investing services to funds managed by GS Group.

Three Months Ended August 2019 versus September 2018. Net revenues in Investment Management were \$133 million for the three months ended August 2019, 29% lower than the three months ended September 2018, primarily due to significantly lower incentive fees from providing investing services to funds managed by GS Group.

Nine Months Ended August 2019 versus September 2018. Net revenues in Investment Management were \$410 million for the nine months ended August 2019, 37% lower than the nine months ended September 2018, primarily due to significantly lower incentive fees from providing investing services to funds managed by GS Group.

### **Administrative Expenses**

Administrative expenses are primarily influenced by compensation (including the impact of the Group Inc. share price on share-based compensation), headcount and levels of business activity. Direct costs of employment include salaries, allowances, estimated year-end discretionary compensation, amortisation and mark-to-market of share-based compensation and other items such as benefits. Discretionary compensation is significantly impacted by, among other factors, the level of net revenues, overall financial performance, prevailing labour markets, business mix, the structure of share-based compensation programmes and the external environment.

The table below presents the company's administrative expenses and headcount.

	Three M	Ionths Ended	Nine Months Ended		
	August	September	August	September	
\$ in millions	2019	2018	2019	2018	
Direct costs of employment	\$ 668	\$ 495	\$1,921	\$1,985	
Management charges from/to					
group undertakings relating					
to staff costs	58	59	150	166	
Brokerage, clearing, exchange					
and distribution fees	240	192	670	630	
Market development	19	19	68	63	
Communications and					
technology	29	30	91	89	
Depreciation and amortisation	32	18	85	48	
Occupancy	43	48	159	131	
Professional fees	36	54	134	167	
Management charges from/to					
group undertakings relating					
to other services	93	47	234	170	
Other expenses	178	179	618	544	
Total administrative					
expenses	\$1,396	\$1,141	\$4,130	\$3,993	
			•		
Headcount at period-end	4,225	4,162			

In the table above:

- Direct costs of employment included a charge of \$92 million for the three months ended August 2019, a charge of \$20 million for the three months ended September 2018, a charge of \$93 million for the nine months ended August 2019 and a credit of \$43 million for the nine months ended September 2018 relating to the mark-to-market of share-based compensation.
- Headcount consists of the company's employees, and excludes consultants and temporary staff previously reported as part of total staff. As a result, the company has reclassified \$15 million of consultant and temporary staff expenses from direct costs of employment to professional fees for the three months ended September 2018 and \$53 million for the nine months ended September 2018 to conform to the current presentation.

The table below presents charges from and to group undertakings for both management charges relating to staff costs and management charges relating to other services.

ıst 19	September 2018	August 2019	September
19	2018	2019	
		2013	2018
07	\$124	\$ 344	\$ 374
49)	(65)	(194)	(208)
58	59	150	166
09	81	299	279
16)	(34)	(65)	(109)
93	47	234	170
51	\$106	\$ 384	\$ 336
	49) 58 09 16)	49) (65) 58 59 09 81 16) (34) 93 47	49)     (65)     (194)       58     59     150       09     81     299       16)     (34)     (65)       93     47     234

# **Management Report**

**Debtors.** The company is exposed to credit risk from its debtors through its amounts due from broker/dealers and customers; and amounts due from parent and group undertakings. These primarily consist of receivables related to cash collateral paid to counterparties and clearing organisations in respect of derivative financial instrument liabilities. Debtors also includes collateralised receivables related to customer securities transactions, which generally have minimal credit risk due to both the value of the collateral received and the short-term nature of these receivables.

**Cash at Bank and in Hand.** Cash at bank and in hand include both interest-bearing and non-interest-bearing deposits. To mitigate the risk of credit loss, the company places substantially all of its deposits with highly-rated banks and central banks.

The tables below present the company's gross credit exposure to financial assets and net credit exposure after taking account of assets captured by market risk in the company's risk management process, counterparty netting (i.e., the netting of financial assets and financial liabilities for a given counterparty when a legal right of set-off exists under an enforceable netting agreement), and cash and security collateral received and cash collateral posted under credit support agreements, which management considers when determining credit risk.

The table below presents a summary of the company's gross credit exposure and net credit exposure by financial asset class.

	Financial			Cash at	
	instruments	Collateralised		bank and	
\$ in millions	owned	agreements	Debtors	in hand	Total
As of August 2019					
Gross credit					
exposure	\$ 908,665	\$151,595	\$ 78,988	\$31,592	\$1,170,840
Assets captured by					
market risk	(102,977)	-	-	-	(102,977)
Counterparty					
netting	(717,590)	(61,775)	(4,421)	-	(783,786)
Cash collateral	(49,689)	-	(46,492)	-	(96,181)
Security collateral					
received	(16,736)	(86,972)	(8,556)	-	(112,264)
Net credit exposure	\$ 21,673	\$ 2,848	\$ 19,519	\$31,592	\$ 75,632
Net credit exposure	\$ 21,673	\$ 2,848	\$ 19,519	\$31,592	\$ 75,632
As of November 2018	, ,,	\$ 2,848	\$ 19,519	\$31,592	\$ 75,632
·	, ,,	\$ 2,848	\$ 19,519	\$31,592	\$ 75,632
As of November 2018	, ,,	\$ <b>2,848</b> \$ 203,334		•	·
As of November 2018 Gross credit		, ,		•	·
As of November 2018 Gross credit exposure		, ,		•	·
As of November 2018 Gross credit exposure Assets captured by	\$ 594,129	, ,		•	\$ 886,346
As of November 2018 Gross credit exposure Assets captured by market risk	\$ 594,129	, ,	\$ 64,487	\$24,396 _	\$ 886,346
As of November 2018 Gross credit exposure Assets captured by market risk Counterparty	\$ 594,129 (76,093)	\$ 203,334	\$ 64,487	\$24,396 _ _	\$ 886,346 (76,093)
As of November 2018 Gross credit exposure Assets captured by market risk Counterparty netting	\$ 594,129 (76,093) (449,860)	\$ 203,334	\$ 64,487 - (5,450)	\$24,396 _ _	\$ 886,346 (76,093) (538,646)
As of November 2018 Gross credit exposure Assets captured by market risk Counterparty netting Cash collateral	\$ 594,129 (76,093) (449,860)	\$ 203,334	\$ 64,487 - (5,450)	\$24,396 - - -	\$ 886,346 (76,093) (538,646)

The tables below presents the company's gross credit exposure and net credit exposure by the company's internally determined public rating agency equivalents.

	ln۱	estment-	Non-Inv	estment-	
\$ in millions		Grade	Grade	/ Unrated	Total
As of August 2019					
Gross credit exposure	\$1	,009,690	\$	161,150	\$ 1,170,840
Assets captured by market risk		-		(102,977)	(102,977)
Counterparty netting		(764,149)		(19,637)	(783,786)
Cash collateral		(86,218)		(9,963)	(96,181)
Security collateral received		(92,611)		(19,653)	(112,264)
Net credit exposure	\$	66,712	\$	8,920	\$ 75,632
As of November 2018					
Gross credit exposure	\$	762,094	\$	124,252	\$ 886,346
Assets captured by market risk		-		(76,093)	(76,093)
Counterparty netting		(522,194)		(16,452)	(538,646)
Cash collateral		(59,579)		(8,008)	(67,587)
Security collateral received		(122,421)		(16,290)	(138,711)
Net credit exposure	\$	57,900	9	7,409	\$ 65,309
		Inves	tment-G	rade	

		111	vestment-G	raue	
\$ in millions	AAA	AA	Α	BBB	Total
As of August 2019					
Gross credit exposure	\$ 38,473	\$ 95,921	\$ 773,844	\$101,452	\$1,009,690
Counterparty netting	(3,822)	(48,022)	(659,115)	(53,190)	(764,149)
Cash collateral	(11,958)	(15,377)	(40,056)	(18,827)	(86,218)
Security collateral					
received	(890)	(17,576)	(56,741)	(17,404)	(92,611)
Net credit exposure	\$ 21,803	\$ 14,946	\$ 17,932	\$ 12,031	\$ 66,712
As of November 2018					

As of November 2018					
Gross credit exposure	\$ 28,353	\$ 78,956	\$ 561,437	\$ 93,348	\$ 762,094
Counterparty netting	(2,630)	(33,438)	(439,612)	(46,514)	(522,194)
Cash collateral	(6,305)	(10,846)	(25,695)	(16,733)	(59,579)
Security collateral					
received	(746)	(22,588)	(78,793)	(20,294)	(122,421)
Net credit exposure	\$ 18,672	\$ 12,084	\$ 17,337	\$ 9,807	\$ 57,900

	Non-Investment-Grade / Unrated					
\$ in millions	BB or lower	BB or lower Unrated			Total	
As of August 2019						
Gross credit exposure	\$ 56,716	\$	104,434	\$ 1	161,150	
Assets captured by market risk	_	(	102,977)	('	102,977)	
Counterparty netting	(19,614)		(23)		(19,637)	
Cash collateral	(9,889)		(74)		(9,963)	
Security collateral received	(19,541)		(112)		(19,653)	
Net credit exposure	\$ 7,672	\$	1,248	\$	8,920	
As of November 2018						
Gross credit exposure	\$ 46,412	\$	77,840	\$ 1	124,252	
Assets captured by market risk	_		(76,093)		(76,093)	
Counterparty netting	(16,423)		(29)		(16,452)	
Cash collateral	(7,993)		(15)		(8,008)	
Security collateral received	(16,158)		(132)		(16,290)	
Net credit exposure	\$ 5,838	\$	1,571	\$	7,409	

In the table above, the unrated net credit exposure of \$1.25 billion as of August 2019 and \$1.57 billion as of November 2018 related to financial assets for which the company has not assigned an internally determined public rating agency equivalent.

# Notes to the Financial Statements (Unaudited)

¢ in millions

# Fair Value of Financial Assets and Financial Liabilities by Level

The table below presents, by level within the fair value hierarchy, financial assets and financial liabilities measured at fair value on a recurring basis.

Laval 2

\$ in millions	Level 1	Level 2	Level 3		Total			
As of August 2019								
Financial Assets								
Cash instruments	\$79,307	\$ 27,412	\$ 984	\$	107,703			
Derivative instruments	12	796,601	4,349		800,962			
Financial instruments owned	79,319	824,013	5,333		908,665			
Collateralised agreements	· -	98,180	´ <b>-</b>		98,180			
Debtors	_	148	_		148			
Total financial assets	\$79,319	\$922,341	\$ 5,333	\$1	,006,993			
Financial Liabilities	Financial Liabilities							
Amounts falling due within of	ne year							
Cash instruments	\$35,916	\$ 5,040	\$ 177	\$	41,133			
Derivative instruments	20	787,758	2,490		790,268			
Financial instruments sold,								
but not yet purchased	35,936	792,798	2,667		831,401			
Collateralised financings	_	77,270	985		78,255			
Other creditors	_	6,568	2,868		9,436			
Total	35,936	876,636	6,520		919,092			
Amounts falling due after mo	ore than one	e vear						
Collateralised financings	_	7,673	_		7,673			
Other creditors	_	31,644	5,867		37,511			
Total		39,317	5,867		45,184			
Total financial liabilities	\$35,936	\$915,953	\$12,387	\$	964,276			
Total illiancial habilities	ψου,σου	ψ510,500	Ψ12,007	Ψ	304,270			
Net derivative instruments	\$ (8)	\$ 8,843	\$ 1,859	\$	10,694			
As of November 2018								
Financial Assets								
Cash instruments	\$53,205	\$ 27,278	\$ 1,083	\$	81,566			
Derivative instruments	17	508,315	4,231	Ψ				
			5.314		512,563			
Financial instruments owned	53,222	535,593	- , -		594,129			
Collateralised agreements	-	146,767	-		146,767			
Debtors		790			790			
Total financial assets	\$53,222	\$683,150	\$ 5,314	\$	741,686			
Financial Liabilities								
Amounts falling due within o	ne vear							
Cash instruments	\$42,951	\$ 4,637	\$ 12	\$	47,600			
Derivative instruments	21	495,993	2,373	φ	498,387			
	21	490,993	2,373		490,307			
Financial instruments sold,	40.070							
but not yet purchased	42,972	500,630	2,385		545,987			
Collateralised financings	_	96,948	917		97,865			
Other creditors		6,272	2,422		8,694			
Total	42,972	603,850	5,724		652,546			
Amounts falling due after mo	ore than one	e year						
Collateralised financings	_	10,286	19		10,305			
Other creditors		35,105	7,131		42,236			
Total	_	00,100						
lulai		45,391	7,150		52,541			
Total financial liabilities	- \$42,972		7,150 \$12,874	\$	52,541 705,087			
	\$42,972 \$ (4)	45,391		\$				

# Significant Unobservable Inputs Used in Level 3 Fair Value Measurements

**Cash Instruments.** The company had level 3 cash instrument assets of \$984 million as of August 2019 and \$1.08 billion as of November 2018. Level 3 cash instrument liabilities were not material.

The table below presents the amount of level 3 cash instrument assets, and ranges and weighted averages of significant unobservable inputs used to value level 3 cash instrument assets.

Level 3 Cash Instruments Assets and Range of Significant Unobservable Inputs

	(Weighted Average) as of				
	August	November			
\$ in millions	2019	2018			
Mortgages and other asse	et-backed loans and securi	ties			
Level 3 assets	\$147	\$171			
Yield	1.3% to 18.7% (6.0%)	2.4% to 16.5% (6.5%)			
Recovery rate	48.3% to 75.0% (61.7%)	19.0% to 75.0% (50.0%)			
Duration (years)	0.5 to 10.8 (4.7)	0.5 to 13.4 (5.1)			
Corporate debt instrumer	its and government and ag	ency obligations			
Level 3 assets	\$765	\$841			
Yield	1.2% to 10.5% (4.1%)	0.7% to 10.5% (5.2%)			
Recovery rate	0.0% to 65.0% (31.6%)	0.0% to 78.0% (51.8%)			
Duration (years)	2.6 to 18.3 (5.7)	0.5 to 13.2 (2.6)			
Equity securities					
Level 3 assets	\$72	\$71			
Multiples	4.1x to 11.0x (5.4x)	4.1x to 11.0x (5.4x)			

### In the table above:

- Ranges represent the significant unobservable inputs that were used in the valuation of each type of cash instrument.
- Weighted averages are calculated by weighting each input by the relative fair value of the cash instruments.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one cash instrument. For example, the highest yield for mortgages and other asset-backed loans and securities is appropriate for valuing a specific mortgage but may not be appropriate for valuing any other mortgages. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 cash instruments.
- Increases in yield or duration used in the valuation of level 3 cash instruments would have resulted in a lower fair value measurement, while increases in recovery rate or multiples would have resulted in a higher fair value measurement as of both August 2019 and November 2018. Due to the distinctive nature of each level 3 cash instrument, the interrelationship of inputs is not necessarily uniform within each product type.

# Notes to the Financial Statements (Unaudited)

The table below presents the amounts not recognised in the profit and loss account relating to the difference between the fair value of financial assets and financial liabilities at fair value through profit or loss at initial recognition (the transaction price) and the amounts determined at initial recognition using the valuation techniques (day 1 P&L).

	Nine Months Ended			
	August	September		
\$ in millions	2019	2018		
Beginning balance	\$146	\$161		
New transactions	95	76		
Amounts recognised in the profit and loss				
account during the period	(61)	(83)		
Ending balance	\$180	\$154		

#### Level 3 Rollforward

The table below presents a summary of the changes in fair value for all level 3 financial assets and financial liabilities measured at fair value on a recurring basis.

	Nine Months Ended			
	August	September		
\$ in millions	2019	2018		
Total financial assets		_		
Beginning balance	\$ 5,314	\$ 4,044		
Gains/(losses)	692	507		
Purchases	484	573		
Sales	(178)	(149)		
Settlements	(812)	(469)		
Transfers into level 3	429	611		
Transfers out of level 3	(596)	(203)		
Ending balance	\$ 5,333	\$ 4,914		
Total financial liabilities				
Beginning balance	\$(12,874)	\$(10,807)		
Gains/(losses)	(766)	99		
Purchases	7	4		
Sales	(377)	(272)		
Issuances	(5,457)	(6,877)		
Settlements	6,834	4,955		
Transfers into level 3	(653)	(412)		
Transfers out of level 3	899	621		
Ending balance	\$(12,387)	\$(12,689)		

# In the table above:

- Financial assets relate to financial instruments owned.
- If a financial asset or financial liability was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3. For level 3 financial assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 financial liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.
- Transfers between levels of the fair value hierarchy are recognised at the beginning of the reporting period in which they occur. Accordingly, the tables do not include gains or losses for level 3 financial assets and financial liabilities that were transferred out of level 3 prior to the end of the period.

- Level 3 financial assets and financial liabilities are frequently economically hedged with level 1 and level 2 financial assets and financial liabilities. Accordingly, level 3 gains or losses that are reported for a particular class of financial asset or financial liability can be partially offset by gains or losses attributable to level 1 or level 2 in the same class of financial asset or financial liability or gains or losses attributable to level 1, level 2 or level 3 in a different class of financial asset or financial liability. As a result, gains or losses included in the level 3 rollforward do not necessarily represent the overall impact on the company's results of operations, liquidity or capital resources.
- The net gains on level 3 financial assets for the nine months ended August 2019 and the nine months ended September 2018 are reported in "Net revenues" in the profit and loss account.
- The net losses on level 3 financial liabilities of \$766 million for the nine months ended August 2019 included losses of \$736 million reported in "Net revenues" in the profit and loss account and losses of \$30 million reported in "Debt valuation adjustment" in the statements of comprehensive income. The net gains on level 3 financial liabilities of \$99 million for the nine months ended September 2018 included gains of \$69 million reported in "Net revenues" in the profit and loss account and gains of \$30 million reported in "Debt valuation adjustment" in the statements of comprehensive income.

The table below disaggregates, by the balance sheet line items, the information for financial liabilities included in the summary table above.

Nice Menter France

	Nine Months Ended		
	August	September	
\$ in millions	2019	2018	
Financial instruments sold, but not yet purchased		_	
Beginning balance	\$(2,385)	\$(2,281)	
Gains/(losses)	(300)	(289)	
Purchases	7	4	
Sales	(377)	(272)	
Settlements	382	605	
Transfers into level 3	(300)	(224)	
Transfers out of level 3	306	216	
Ending balance	\$(2,667)	\$(2,241)	
Collateralised financings		-	
Beginning balance	\$ (936)	\$ (642)	
Gains/(losses)	94	67	
Issuances	(168)	(419)	
Settlements	6	15	
Transfers out of level 3	19	_	
Ending balance	\$ (985)	\$ (979)	
Other creditors			
Beginning balance	\$(9,553)	\$(7,884)	
Gains/(losses)	(560)	321	
Issuances	(5,289)	(6,458)	
Settlements	6,446	4,335	
Transfers into level 3	(353)	(188)	
Transfers out of level 3	574	405	
Ending balance	\$(8,735)	\$(9,469)	