

## European High Yield & Leveraged Loan Report

## **European Leveraged Finance**

Q1: 2017





Prepared in partnership with



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### Highlights and Market Environment

#### **Highlights**

#### **Issuance Highlights**

European leveraged finance issuance (leveraged loans and high yield bonds) increased in 1Q'17 to  $\in$ 86.5 billion, a 50.5% increase from  $\notin$ 57.4 billion in 4Q'16 and almost double the  $\notin$ 43.5 billion issued in 1Q'16. This was the highest quarterly issuance since 2Q'14. The quarterly increase stems from the surge in high yield bond issuance, which increased by 136.8% in the first quarter of 2017 while leveraged loan issuance increased by 19.9%. The high yield bond share of the leveraged finance market increased to 41.2%, up from 26.2% in 4Q'16 and from 24.3% in 1Q'16.

#### Market and Economic Environment

According to the April 2017 European Central Bank lending survey, in the first quarter of 2017, loan growth continued to be supported by eased lending conditions and increasing demand across all loan categories.

Credit standards eased for loans to enterprises, households and consumer credit mainly due to competitive pressure in the market. Banks' overall terms and conditions on new loans also eased across all loan categories in 1Q'17, driven largely by further narrowing of margins on average loans, while margins on riskier loans remained broadly unchanged.

For loans to enterprises, credit standards eased slightly in net terms in the first quarter of 2017. Across firm sizes, credit standards eased for loans to both small and medium-sized enterprises (SMEs) and loans to large firms. Across the large euro area countries, credit standards on loans to enterprises eased in Germany and Italy, remained unchanged in France and the Netherlands, and tightened in Spain.

Looking ahead to the first quarter of 2017, euro banks expect a slight net tightening of credit standards on loans to enterprises, but expect unchanged credit standards for housing loans and consumer credit and for other household lending.

Net demand for loans to enterprises, housing loans, and consumer credit continued to increase in 1Q'17.

"European leveraged finance issuance (leveraged loans and high yield bonds) totaled  $\in 86.5$  billion in 1Q'17"

#### Issuance

#### **Issuance: Leveraged Loans**

Leveraged loan issuance, including first lien, second lien, and mezzanine financing, increased to  $\notin$ 50.8 billion in the first quarter of 2017, up 19.9% q-o-q ( $\notin$ 42.4 billion in 4Q'16), up 54.2% y-o-y ( $\notin$ 33.0 billion in 1Q'16). This was the highest quarterly total since the financial crisis.

In the first quarter of 2017,  $\notin$ 16.3 billion of amend-andextend ("A&E") loans were financed, an increase from both  $\notin$ 14.4 billion in 4Q'16 and from  $\notin$ 0.6 billion in 1Q'16, and the highest quarterly A&E total since 1Q'12.

Most of the loans issued in 1Q'17 were 1<sup>st</sup> lien loans; there were no mezzanine loans and one 2<sup>nd</sup> lien loan financed. Pricing spreads for institutional loans tightened by 12 basis points (bps) q-o-q and by 13 bps y-o-y while spreads for pro rata loans widened by 27 bps q-o-q and by 12 bps y-o-y.

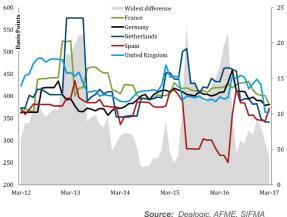
The top three sectors in leveraged loan issuance in 1Q'17 accounted for over 60% of the issuance volume; the leading sector was telecommunications ( $\in$ 16.4 billion), followed by healthcare ( $\in$ 8.6 billion), and chemicals ( $\in$ 7.3 billion), with the balance split between 13 other sectors.

The share of deals used to refinance and/or repay debt increased to 80.8% of all deals by euro amount in the first quarter of 2017, compared to 73.5% in 4Q'16 and 13.4% in 1Q'16. Refinancing and/or repayment of debt were the largest use of proceeds in 1Q'17 with €41.1 billion, followed by leveraged buyouts with €5.5 billion or 10.8% of total, and acquisitions with €3.6 billion or 7.1% of total.

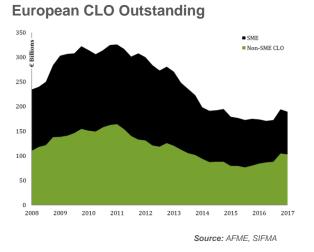
European CLO outstandings, including SME deals, decreased by 2.6% to €189.5 billion in 1Q'17 from €194.5 billion. Non-SME CLOs decreased by 1.9% to €102.9 billion in 1Q'17 from €104.9 in 4Q'16, while SME CLOs decreased by 3.4% to €86.6 billion from €89.6 billion in 4Q'16.

# "In 1Q'17, leveraged loan issuance increased to $\in$ 50.8 billion on 70 deals"

**Institutional Spreads** 



Source: Dealogic, AFME, SIFM



#### European High Yield & Leveraged Loan Report Page 5

#### **Issuance: High Yield Bonds**

Primary high yield issuance in 1Q'17 totaled  $\notin$ 35.7 billion on 76 deals, a 136.8% increase from 4Q'16 ( $\notin$ 15.1 billion on 41 deals) and a 237.4% increase from 1Q'16 ( $\notin$ 10.6 billion on 22 deals).

Primary high yield issuance in developed market Europe in the first quarter of 2017 was  $\notin$ 27.5 billion on 61 deals, a 171.0% increase from  $\notin$ 10.1 billion on 29 deals in 4Q'16 and a 198.5% increase from  $\notin$ 9.2 billion on 20 deals in 1Q'16.

In emerging market Europe primary high yield issuance in 1Q'17 was  $\in 8.2$  billion on 15 deals, an increase of 66.1% from  $\notin 4.9$  billion on 12 deals in 4Q'16 and an increase of 501.2% from  $\notin 1.4$  billion on 2 deals in 1Q'16.

In the first quarter of 2017, average deal size in developed market Europe increased by 28.8% to €450.7 million from €349.8 million in 4Q'16, but decreased by 2.1% from €460.5 million in 1Q'16. Average deal size in emerging market Europe increased by 32.9% to €543.7 million in 1Q'17 from €409.2 million in 4Q'16, but decreased by 19.8% y-o-y (€678.2 million in 1Q'16).

High yield issuance for refinancing and/or repayment of debt in developed market Europe decreased to  $\notin$ 11.8 billion, representing 42.8% of all issuance in 1Q'17, up from  $\notin$ 4.6 billion (45.4% of total) in 4Q'16 and from  $\notin$ 1.3 billion (14.1% of total) in 1Q'16. In emerging market Europe, no high yield debt was issued for refinancing and/or repayment of debt in the first quarter of 2017, which was a decrease from  $\notin$ 0.7 billion in 4Q'16 (13.3% of total) and unchanged from no deals issued for that purpose in 1Q'16.

Three sectors accounted for almost half of the total high yield issuance in developed market Europe in 1Q'17: the telecommunications industry led issuance with €6.0 billion (21.9% of total), followed by the finance industry with €3.7 billion (13.5% of total) and metal & steel industry with €3.4 billion (12.3% of total). In emerging market Europe the top three sectors accounted for almost three quarters of total high yield issuance: the oil & gas led the issuance with €2.6 billion (32.2% of total), followed by the finance industry with €2.3 billion (28.7% of total) and the metal & steel industry with €1.3 billion (15.5% of total).

The proportion of USD-denominated issuance increased to 41.3% of all issuance in 1Q'17, compared to 29.1% in 4Q'16 and 28.2% in 1Q'16. USD-denominated issuance in developed market Europe increased to €8.3 billion, or 30.3% of issuance, up from €1.3 billion or 12.6% in 4Q'16 and €2.1 billion (22.6%) in 1Q'16. Of high yield bonds issued in emerging market Europe, €6.4 billion or 78.1% was denominated in USD, up from €3.1 billion (63.0% of total) in 4Q'16 and €0.9 billion (66.4% of total) in 1Q'16.

"Primary high yield issuance totaled  $\in 81.3$  billion on 159 deals in 2016" **Returns & Credit Quality** 

All asset classes analysed recorded positive returns in the first quarter of 2017. MCSI Emerging Market Index led returns with 11.1%, followed by U.S. High Yield Distressed Index (9.1%) and S&P 500 (5.5%). The worst performing asset classes in 1Q'17 were EMU Covered Bonds (0.1%), EMU ABS/MBS (0.1%) and U.S. 30 Year Mortgages (0.4%).

As of March 2017, S&P reported the trailing 12-month speculative-grade default rate at 2.1%, up from 1.7% end-December 2016 and from 1.4% end-March 2016. Moody's reported the trailing 12-month speculative-grade default rate in March 2017 to be 2.5% (up from 2.1% end-December 2016 but down from 2.7% end-March 2016).

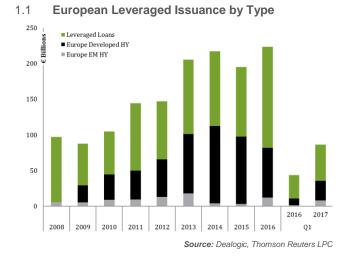
Seven bond-related defaults were reported in the first quarter of 2017, six in developed market Europe and one in emerging market Europe.

According to Standard and Poor's, in 1Q'17 upgrades exceeded downgrades in developed market Europe (37 upgrades to 16 downgrades), a much better ratio than 26 upgrades to 33 downgrades in 4Q'16 and 20 upgrades to 40 downgrades in 1Q'16. It was the lowest downgrade percentage of a total since 2Q'14. In emerging market Europe, there were only 4 rating actions by S&P in 1Q'17, all downgrades, compared to 6 upgrades to 7 downgrades in 4Q'16 and no upgrades and 10 downgrades in 1Q'16. Three sectors accounted for over half of the rating actions in 1Q'16: bank (total of 14 upgrades and 3 downgrades) followed by consumer products (1 upgrade and 7 downgrades) and chemicals, packaging and environmental services (4 upgrades and 1 downgrade).

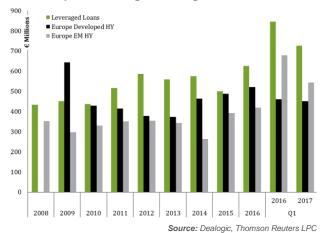
*"MCSI Emerging Market Index led returns in 1Q'17 with total return of 11.1%"* 

*"7 European high yield bond issuers defaulted in 1Q'17"* 

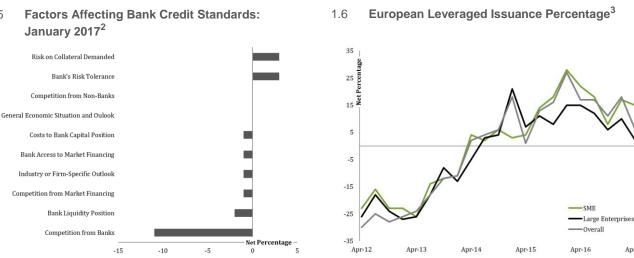
#### Leveraged Finance Overview 1



**European Leveraged Average Deal Size** 1.3





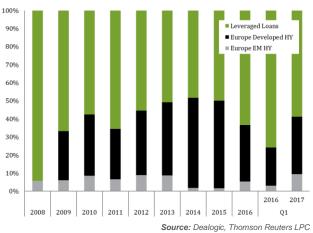


<sup>1</sup> A positive net percentage number signifies tightening bank credit; a negative net percentage number signifies easing credit.

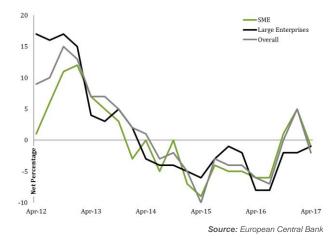
Source: European Central Bank

<sup>2</sup> A positive net percentage signifies the factor contributed to tightening credit standards; a negative net percentage signifies the factor contributed to easing credit standards. <sup>3</sup> A positive net percentage signifies increased demand; a negative net percentage signifies decreased demand.

1.2 European Leveraged Issuance Percentage



1.4 Bank Credit Standards<sup>1</sup>



Apr-17

Source: European Central Bank



#### 1.7 Factors Affecting Loan Demand: January 2017<sup>4</sup>

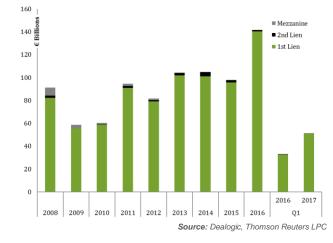
1.8 Global Comparison – High Yield Issuance

	2017	2016				2015				Prior Years				
€ Billions	Q1	Q1	Q2	Q3	Q4 Fi	ull Year	Q1	Q2	Q3	Q4 F	ull Year	2014	2013	2012
United States	61.4	33.71	54.22	49.38	37.44	174.8	60.86	70.59	29.70	31.17	192.3	185.2	196.8	214.8
Asia Pacific	27.0	25.94	17.25	21.91	16.47	81.6	9.91	10.51	13.50	6.98	40.9	36.0	42.7	32.2
Europe	39.8	12.95	39.20	28.42	18.77	99.3	41.83	35.94	18.27	20.82	116.9	125.3	122.5	80.5

Source: Dealogic

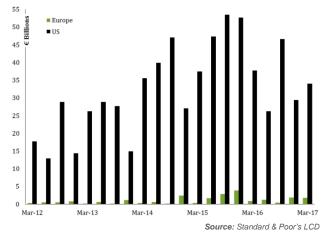
<sup>4</sup> A positive net percentage signifies a factor that contributed to higher demand; a negative net percentage signifies a factor that contributed to lower demand.

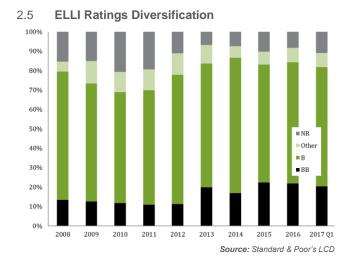
## 2 Issuance – Leveraged Loans



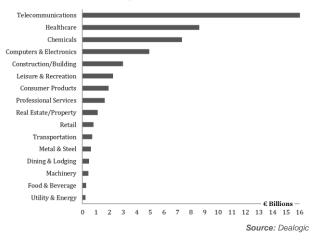
#### 2.1 European Leveraged Loan Issuance By Type



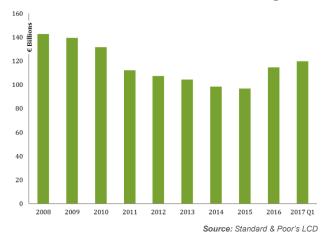




#### 2.2 European Leveraged Loan Issuance by Industry



2.4 ELLI Total Institutional Loans Outstanding

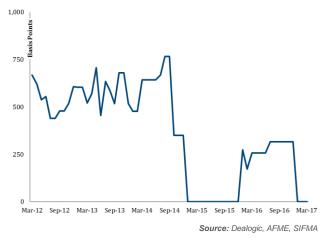




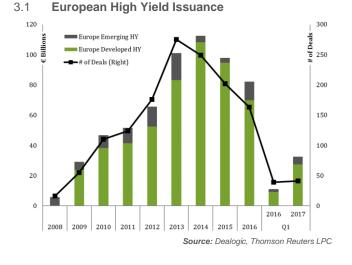


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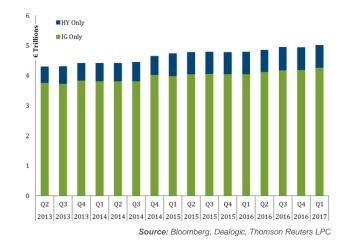
#### 2.7 Mezzanine Spreads

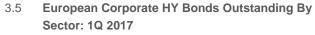


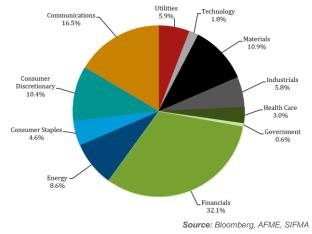
## 3 Issuance – High Yield Bonds Overview



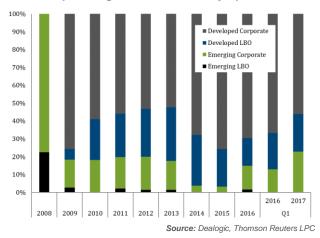
#### 3.3 European Corporate Bonds Outstanding



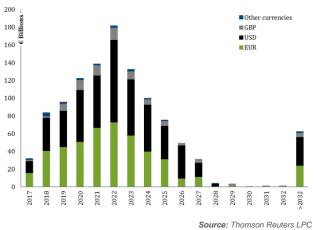




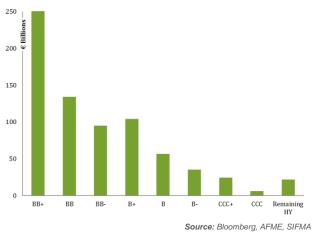
3.2 European High Yield Issuance by Sponsor





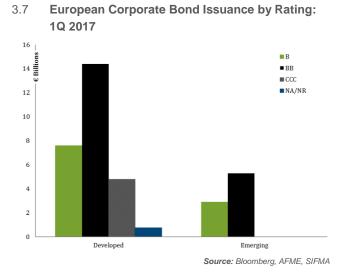


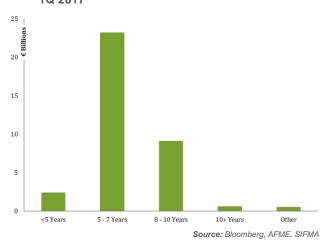
3.6 European Corporate HY Bonds Outstanding by Current Rating: March 2017



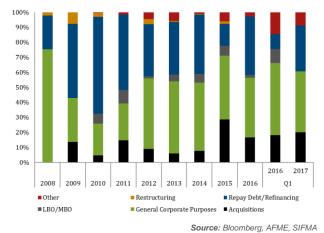
#### Issuance – High Yield Bonds Overview



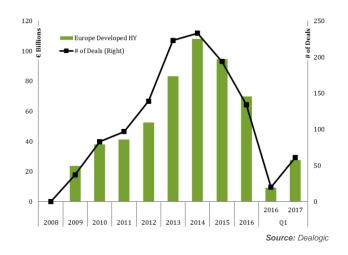






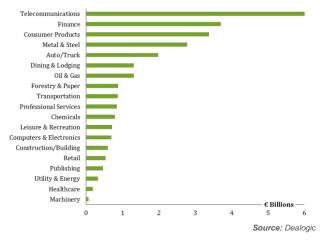


## 4 Issuance – European Developed Market High Yield Bonds

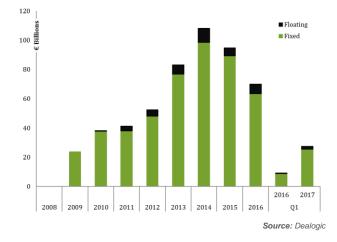


#### 4.1 European Developed Market HY Bond Issuance

4.3 European Developed Market HY Issuance by Industry: 1Q 2017



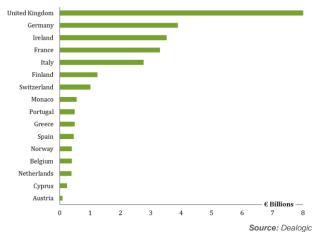




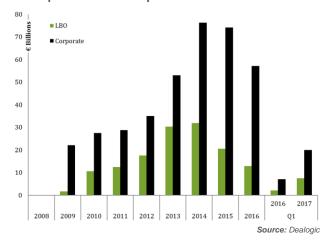
4.2 European Developed Market HY Issuance by Currency



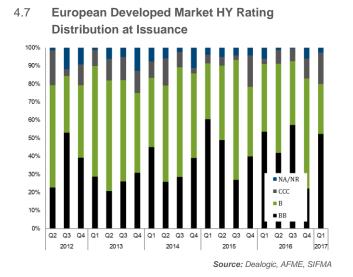
4.4 European Developed Market HY Issuance by Country of Risk: 1Q 2017



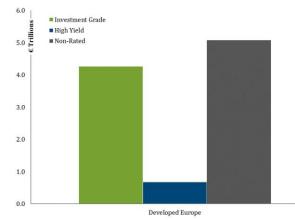
4.6 European Developed Market HY Issuance, Sponsored vs. Corporate



#### Issuance – European Developed Market High Yield Bonds



4.8 European Developed Market Corporate Bonds Outstanding: March 2017



Source: Dealogic, AFME, SIFMA

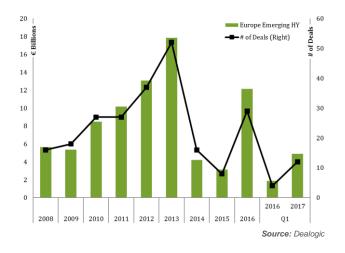
#### Issuance – European Developed Market High Yield Bonds

#### 4.9 European Developed Market HY Bond Issuance

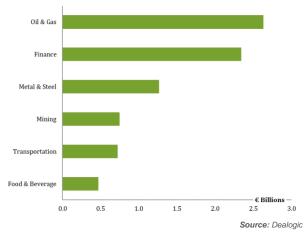
ssuer	Industry Group	Date	Currency	Amount (Millions)	Coupon Moodys	S&P	Fitch
elecom Italia SpA	Telecommunications	12/01/2017	EUR	1,000	2.50 Ba1	BB+	BBB-
alkTalk Telecom Group plc	Telecommunications	12/01/2017	GBP	400	5.38 NA	BB-	BB-
guar Land Rover Automotive plc	Auto/Truck	12/01/2017	EUR	650	2.20 Ba1	BB+	NA
ank of Cyprus Public Co Ltd	Finance	12/01/2017	EUR	250	9.25 Caa3	NA	NA
lversea Cruise Finance Ltd	Leisure & Recreation	13/01/2017	USD	550	7.25 B2	BB-	NA
migo Luxembourg SA	Finance	13/01/2017	GBP	275	7.63 B1	B+	NA
murfit Kappa Acquisitions	Forestry & Paper	17/01/2017	EUR	500	2.38 Ba1	BB+	BB+
	· ·	, ,					
irgin Media Secured Finance plc	Telecommunications	18/01/2017	GBP	675	5.00 Ba3	BB-	BB+
apag-Lloyd AG	Transportation	18/01/2017	EUR	250	6.75 Caa1	B-	NA
guar Land Rover Automotive plc	Auto/Truck	19/01/2017	GBP	300	2.75 Ba1	BB+	NA
rdagh Packaging Finance plc	Consumer Products	19/01/2017	USD	1,000	6.00 B3	CCC+	NA
emean Bondco plc	Finance	20/01/2017	GBP	275	7.38 B1	NA	NA
			GBP	150	3M LIBOR +650 B1	NA	NA
pha 3 BV	Chemicals	25/01/2017	USD	425	6.25 Caa1	CCC+	NR
&M European Value Retail SA	Retail	26/01/2017	GBP	250	4.13 Ba3	BB-	NA
DM Debt AB	Finance	30/01/2017	EUR	50	9.50 NA	NA	NA
		, ,	USD	225			
ercer International Inc	Forestry & Paper	31/01/2017			6.50 B1	BB-	NA
avigator Holdings Ltd	Transportation	01/02/2017	USD	100	7.75 NA	NA	NA
olar LNG Partners LP	Transportation	01/02/2017	USD	250	3M LIBOR +625 NA	NA	NA
onstellium NV	Metal & Steel	02/02/2017	USD	650	6.63 Caa1	CCC+	NA
arcolin SpA	Retail	03/02/2017	EUR	250	3M EURIBOR +412.5 B2	В	NA
S Markit Ltd	Publishing	06/02/2017	USD	500	4.75 Ba1	BB+	BBB
pag-Lloyd AG	Transportation	07/02/2017	EUR	200	6.75 Caa1	B-	NA
ontourGlobal Power Holdings SA	Utility & Energy	08/02/2017	EUR	100	5.13 NA	BB	BB-
		, ,					
erallia SA	Consumer Products	09/02/2017	EUR	350	8.25 NA	CCC+	NA
ercury Bondco plc	Finance	09/02/2017	EUR	600	7.13 B3	В	NA
erroglobe plc	Metal & Steel	09/02/2017	USD	350	9.38 B3	NA	B+
tegroup Finance (Luxembourg) SA	Dining & Lodging	13/02/2017	CHF	350	3.00 NA	NA	NA
nsco plc	Oil & Gas	13/02/2017	USD	332	8.00 NA	BB	NA
rrold FinCo plc	Finance	15/02/2017	GBP	200	6.13 NA	B+	BB-
dagh Packaging Finance plc	Consumer Products	24/02/2017	EUR	750	2.75 Ba3	BB-	NA
uagir r ackaging r manee pie	consumer r rouuers	24/02/2017	USD	715	4.25 Ba3	BB-	NA
			USD	700	6.00 B3	NA	NA
iyssenKrupp AG	Metal & Steel	27/02/2017	EUR	1,250	1.38 Ba2	BB	BB+
exel SA	Computers & Electronics	27/02/2017	EUR	300	2.63 Ba3	BB-	BB
aviera Armas SA	Transportation	27/02/2017	EUR	50	3M EURIBOR +650 B1	BB-	NA
ГА Group Ltd (Mauritius)	Finance	01/03/2017	USD	600	9.13 B2	В	NA
onegate Pub Co Financing plc	Dining & Lodging	02/03/2017	GBP	190	3M EURIBOR +437.5 B2	В	NA
onegate i ub do i manenig pre	Dinnig et Douging	02/00/201/	GBP	405	4.88 B2	B	NA
yrstar Netherlands (Holdings) BV	Metal & Steel	03/03/2017	EUR	400	6.88 B3	B-	NA
,		, ,					
okia Oyj	Telecommunications	06/03/2017	EUR	750	2.00 Ba1	BB+	BB
			EUR	500	1.00 Ba1	BB+	BB
&W Global Vending SpA	Machinery	06/03/2017	EUR	70	7.00 B2	В	NA
berbank SA	Finance	07/03/2017	EUR	300	6.88 NA	NA	BB-
atterhorn Telecom Holding SA	Telecommunications	09/03/2017	EUR	117	4.88 Caa1	CCC+	NA
		,,=.	EUR	525	3M EURIBOR +325 B2	В	NA
Mobile USA Inc	Telecommunications	13/03/2017	USD	500	5.38 Ba3	BB	NA
MODIC USA IIIC	recommunications	13/03/2017					
			USD	500	5.13 Ba3	BB	NA
	_		USD	500	4.00 Ba3	BB	NA
ogroup AG	Forestry & Paper	13/03/2017	EUR	150	3M EURIBOR +250 Ba2	NA	NA
ay Topco SA	Telecommunications	13/03/2017	EUR	500	5.38 Caa1	B-	B-
erlin Entertainments plc	Leisure & Recreation	13/03/2017	EUR	200	2.75 Ba2	BB	NA
oto Finance plc	Dining & Lodging	14/03/2017	GBP	150	4.50 NA	NA	B+
VIE SA	Construction/Building	15/03/2017	EUR	600	3.13 Ba3	BB	NA
aprec France SAS	Utility & Energy	16/03/2017	EUR	225	5.20 B1	NA	NA
-		, ,					
ercer International Inc	Forestry & Paper	16/03/2017	USD	25	6.50 B1	NA	NA
ewCo Sab Midco SAS	Healthcare	21/03/2017	EUR	180	5.38 Caa1	B-	NA
CA Deutag UK Finance plc	Oil & Gas	21/03/2017	USD	535	9.88 Caa1	CCC+	CCC-
row Global Finance plc	Finance	21/03/2017	EUR	400	3M EURIBOR +287.5 Ba3	BB	NA
ixa Geral de Depositos SA - CGD	Finance	23/03/2017	EUR	500	10.75 Caa2	NA	B-
Hotel Group SA	Dining & Lodging	24/03/2017	EUR	115	3.75 Ba3	NA	NA
P Pelzer Holding GmbH	Auto/Truck	24/03/2017	EUR	350	4.13 B1	B+	NA
orpio Tankers Inc	Transportation	28/03/2017	USD	50	8.25 NA	NA	NA
ipem Finance International BV	Oil & Gas	29/03/2017	EUR	500	2.75 Ba1	BB+	NA
exans SA	Metal & Steel	29/03/2017	EUR	200	2.75 NA	BB	NA
oxam SAS	Professional Services	29/03/2017	EUR	300	4.25 NA	BB-	NA
			EUR	300	3.50 NA	BB-	NA
			EUR	250	6.00 NA	В	NA
assa Topco AS	<b>Computers &amp; Electronics</b>	30/03/2017	EUR	400	2.88 Ba2	BB+	NA
	-	, ,					
+SAG	Chemicals	30/03/2017	EUR	400	2.63 NA	BB+	NA
ton Martin Capital Holdings Ltd	Auto/Truck	31/03/2017	USD GBP	400	6.50 B3 5.75 B3	В- В-	NA NA
				230			

Source: Bloomberg, Dealogic

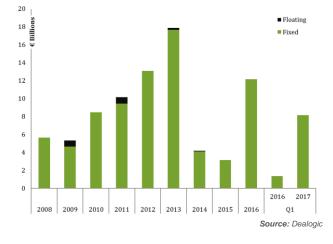
## 5 Issuance – European Emerging Market High Yield Bonds



5.3 European Emerging Market HY Issuance by Industry: 1Q 2017



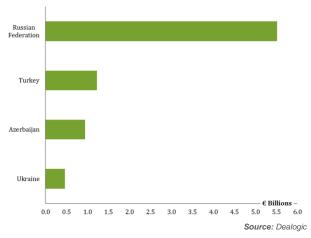




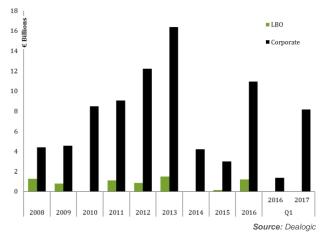
5.2 European Emerging Market HY Bond Issuance by Currency



5.4 European Emerging Market HY Issuance by Country of Risk: 1Q 2017



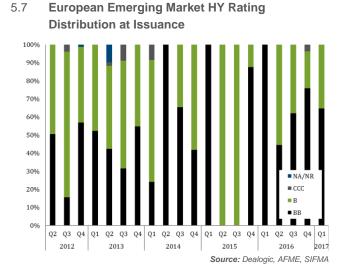
5.6 European Emerging Market HY Issuance, Sponsored vs. Corporate



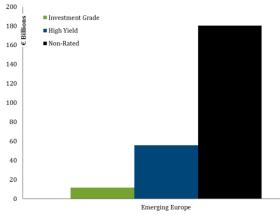
European Emerging Market HY Bond Issuance

5.1

#### Issuance – European Emerging Market High Yield Bonds



#### 5.8 European Emerging Market Corporate Bonds Outstanding: December 2016



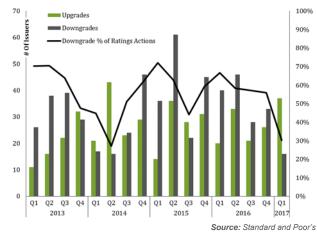
Source: Bloomberg, AFME, SIFMA

#### 5.9 European Emerging Market HY Bond Issuance

				Amount			
Issuer	Industry Group	Date	Currency	(Millions)	Coupon Moodys	S&P	Fitch
Kernel Holding SA	Food & Beverage	25/01/2017	USD	500	8.750 NA	В	B+
Rusal Capital DAC	Metal & Steel	27/01/2017	USD	600	5.125 B1	NA	B+
Polyus Gold International Ltd	Mining	01/02/2017	USD	800	5.250 Ba1	BB-	BB-
Alfa Bank OAO	Finance	10/02/2017	RUB	10,000	9.250 Ba2	NA	BB+
Russian Railways OAO	Transportation	23/02/2017	USD	500	4.375 Ba1	NA	BBB-
			RUB	15,000	8.990 Ba1	NA	BBB-
Akbank TAS	Finance	08/03/2017	USD	500	7.200 B1	NA	BB
Turkiye Garanti Bankasi AS	Finance	09/03/2017	USD	500	5.875 Ba1	NA	BBB-
Southern Gas Corridor CJSC	Oil & Gas	09/03/2017	USD	1,000	6.875 Ba1	NA	BB+
Evraz Group SA	Metal & Steel	13/03/2017	USD	750	5.375 B1	B+	BB-
Gazprom OAO	Oil & Gas	17/03/2017	USD	750	4.950 Ba1	BB+	BBB-
Turkiye Sinai Kalkinma Bankasi AS - TSKB	Finance	21/03/2017	USD	300	7.625 B1	NA	BB-
ABH Financial Ltd	Finance	23/03/2017	EUR	400	2.626 NA	B+	BB
Gazprom OAO	Oil & Gas	29/03/2017	GBP	850	4.250 Ba1	NA	BBB-
Credit Bank of Moscow OAO - MKB	Finance	29/03/2017	USD	600	7.500 NA	NA	BB-

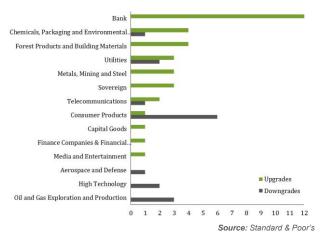
Source: Bloomberg, Dealogic

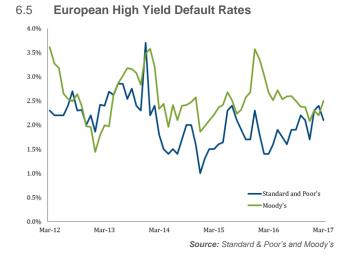
## 6 Credit Quality



6.1 **Developed Europe Issuer Rating Actions**<sup>5</sup>

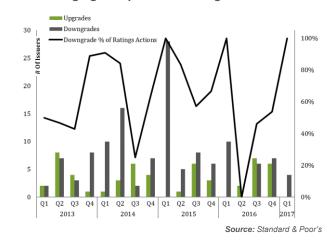




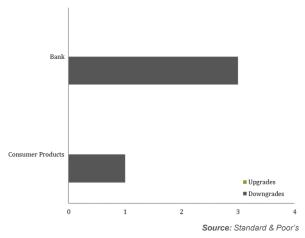


- <sup>5</sup> Numbers include both corporate and sovereigns.
- <sup>6</sup> Numbers include both corporate and sovereigns.

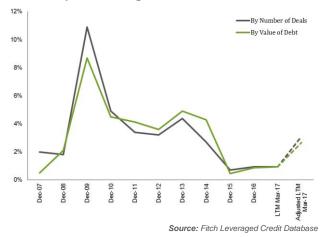
6.2 Emerging Europe Issuer Rating Actions<sup>6</sup>



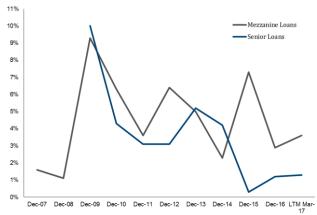
6.4 Emerging European Industry Rating Actions by Number of Ratings: 1Q 2017



6.6 European Leveraged Loan Default Rates<sup>7</sup>

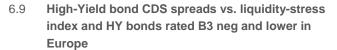


<sup>7</sup> Includes c\* and cc\* rated issuers as if those had already defaulted



6.7 Mezzanine and Senior Loan Default Rate

Source: Fitch Leveraged Credit Database



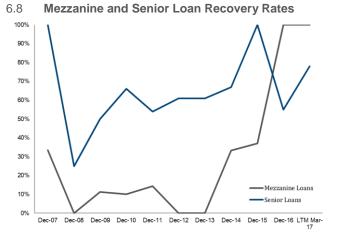


Source: Moody's

#### 6.10 European Defaults

Issuer	Industry Group	Country	Date	<b>Reported By</b>	Reason
Avanti Communications Group PLC	Telecommunications	U.K.	January 2017	S&P	Distressed exchange
Toisa Ltd.	Oil and gas	U.K.	January 2017	S&P	Chapter 11
Delta Bank JSC	Bank	Kazakhstan	February 2017	S&P	Missed principal payment
Drill Rigs Holdings Inc.	Energy	Norway	March 2017	Moody's	Bankruptcy
Drillships Financing Holding Inc.	Energy	Norway	March 2017	Moody's	Bankruptcy
Drillships Ocean Ventures Inc.	Energy	Norway	March 2017	Moody's	Bankruptcy
Ocean Rig UDW Inc.	Energy	Norway	March 2017	Moody's	Bankruptcy

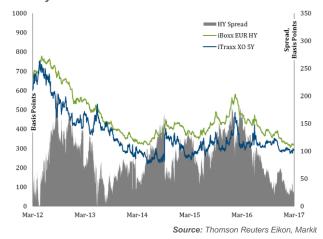
Source: Standard & Poor's, Moody's



Source: Fitch Leveraged Credit Database

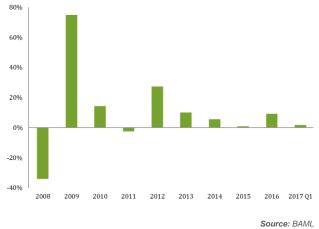
### 7 Relative Value and Total Return

## 7.1 Relative value: European HY Bonds, Cash vs. Synthetic

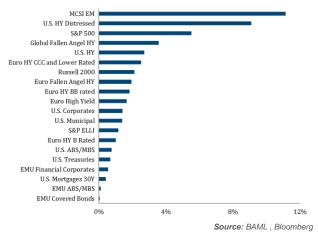


#### 7.3 **European Leveraged Loan Total Return** 50% ELLI 40% ELLI (EUR-denominated only) 30% 20% 10% 0% -10% -20% -30% -40% 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 01 Source: Standard & Poor's LCD

7.2 European HY Bond Total Return









## Summary of the Methodologies Adopted for this Report

#### 1. Leveraged Issuance – Overview

1.1. – 1.3. Leveraged Loans and High Yield Bonds

Leveraged loan data are sourced from Thomson Reuters LPC and Dealogic.

Leveraged loan data from Thomson Reuters LPC are defined primarily as having sub-investment grade ratings and/or a margin spread minimum of 200 basis points (spread minimums will vary from year to year to make Thomson LPC's cutoff). Leveraged loan aggregates will include first lien, second lien, and mezzanine financing. Discrepancies in Thomson Reuters LPC data are due to rounding and/or currency rate of exchange.

Leveraged loan data from Dealogic are defined primarily as coming from a leveraged or highly leveraged European deal; loan tranches must have sub-investment grade ratings, or, if unrated, a margin spread minimum of 125 basis points over a benchmark (e.g., Euribor, LIBOR). Under these guidelines, sub-investment grade-rated loans with a margin spread of less than 125 basis points are included. Deals must be European and are inclusive of both developed and emerging market Europe as defined in high yield criteria in Section 3. Deals must also be marketed either in Europe or in the United States. Loans not EUR-denominated are converted to EUR as of credit date for purposes of aggregation. Aggregates include new money as well as non-new money deals.

Criteria for high yield bond transactions can be found in Section 3, 4, and 5.

#### 1.4. – 1.7. Bank Lending Surveys

Data for loan demand and credit standards are sourced from the ECB's bank lending survey. Graph numbers are net percentages of reporting banks.

**1.8. Global Comparison – High Yield Issuance** Data for global high yield issuance are sourced from Dealogic. Asian deals are inclusive of Japan and Australia.

#### 2. Issuance – Leveraged Loans

#### 2.1. – 2.2. Leveraged Loan Issuance

Leveraged loan issuance data are sourced primarily from Dealogic and Thomson Reuters LPC. For more details on qualifying criteria, please refer to section 1. 2.3. Forward Pipeline of Leveraged Loan Market

Forward leveraged loan pipeline data are sourced from S&P LCD.

#### 2.4. S&P ELLI Total Institutional Loans Outstanding

Total institutional loan outstanding data are sourced from S&P LCD and are outstanding loans in the S&P ELLI index.

#### 2.5. S&P ELLI Ratings Diversification

S&P ELLI ratings diversification are the percentages of currently outstanding loans in S&P's ELLI index that are rated accordingly. Data are provided by S&P LCD.

#### 2.6. – 2.7. Loan Spreads

Loan spread data are sourced from Dealogic under our criteria for leveraged loans (see Section 1). For purposes of loan spread calculations, deals marketed in the US are excluded. Spreads are a weighted average of spread margin on new leveraged issuance on a rolling twelve months basis, and are typically benchmarked to LIBOR or EURIBOR. Institutional loan spread data are inclusive of 2<sup>nd</sup> lien; pro rata spreads include all revolvers and term loan A (Tla).

#### 3. Issuance – High Yield Bonds Overview

High yield bond transactions are sourced primarily from Dealogic, with supplemental information sourced from Bloomberg. High yield transactions are defined as transactions with a Dealogic "effective" rating of equal or less than BB+, and may include unrated transactions based on issuer and desk notes. Split-junk rated transactions are generally excluded.

European issuance, inclusive of both emerging market Europe and developed market Europe, are defined as an issue having a Dealogic "deal nationality" as well as "nationality of risk" within Europe issued in the euro, foreign, and global markets; deals marketed locally are excluded. Sovereign, sub-sovereign, and supranational parent issuers are excluded from issuance, as well as ABS/MBS issuers.

Emerging market Europe and developed market European issuance are defined by nationality of risk, rather than nationality of deal, and although primarily sourced from Dealogic, are ultimately subject to AFME's discretion. Emerging and developed market issuances are mutually exclusive and will contain no overlap unless otherwise mentioned. European emerging market bonds are further defined with having a minimum deal size of  $\notin 75.0$  million; deals on the same day from the same issuer are aggregated for the purpose of meeting this minimum. Deals are shown in EUR amount but include deals originated in other currencies and are converted to EUR at the exchange rate on the day of the deal. Russian ruble (RUB)-denominated issuance are excluded due to differences in terms and documentation; as of 4Q'10 this criteria no longer applies and may be included on a case by case basis.

#### 3.2. European HY Issuance by Sponsor

Data for high yield issuance by sponsor are sourced from Dealogic. LBO deals are defined as all high yield transactions whose issuer parent is a public or private finance entity (i.e., a financial sponsor), regardless of use of proceeds.

#### 3.3. – 3.6. European Corporate Bonds Outstanding

Data for European corporate outstanding are sourced from Bloomberg and AFME/SIFMA estimates. Criteria for European corporate bonds are: bonds must be placed in the domestic, euro, foreign and global markets with nationality of incorporation from a European developed or emerging market country as defined by AFME. Corporate bonds exclude all structured notes, covered bonds, warrants, deposit notes, receipts, and certificates of deposit. All currencies are included and have been converted to EUR at time of pricing and/or issue.

High-yield ratings are sourced from Bloomberg's composite rating, which is an average of all available ratings from four rating agencies: Moody's, Standard and Poor's, Fitch Ratings, or DBRS. Split-rated securities may be included in high yield numbers due to this.

For chart 3,3., corporate bonds outstanding include certain securities that may be considered corporate securitisations or structured finance securities; while all effort is made to exclude the latter, the former will be counted toward the corporate bonds outstanding total, and will subsequently overlap to some extent to AFME structured finance outstanding numbers. Excludes unrated securities.

For chart 3.4., the data is sourced from Reuters Eikon and includes high-yield bonds issued by financial and non-financial corporates incorporated in EU countries.

## 3.7. European Corporate Bond Issuance by Rating

Data for HY issuance by rating are sourced from Dealogic, Bloomberg, and the three rating agencies. The composite rating is determined by the lowest rating assigned by either Moody's, Standard and Poor's, or Fitch Ratings.

## 3.8. European Corporate Bond Issuance by Tenor

Data for HY issuance by tenor are sourced from Dealogic. "Other" includes perpetuals.

## 3.9. European HY Issuance By Use of Proceeds

Data for HY issuance by use of proceeds are sourced from Dealogic and aggregated for the purposes of this calculation. Please refer to Section 3 for criteria on high yield issue inclusion.

#### 4. Issuance – European Developed Market High Yield Bonds

#### 4.1. – 4.7., 4.9 European Developed Market HY Bond Issuance

High yield bond issuance data are sourced from Dealogic. For further criteria on how high yield issuance are defined, please refer to section 3.

Developed European issuance are deals predominantly from western Europe and includes deals from Andorra, Austria, Belgium, Bulgaria, Cyprus, Switzerland, Germany, Denmark, Spain, Estonia, Finland, France, Faroe Islands, United Kingdom, Guernsey, Gibraltar, Greenland, Greece, Isle of Man, Ireland, Iceland, Italy, Jersey, Liechtenstein, Luxembourg, Monaco, Malta, Montenegro, Netherlands, Norway, Portugal, San Marino, and Sweden.

## 4.8. European Developed Market Corporate Bonds Outstanding

Data for corporate bonds outstanding are sourced from Bloomberg. Please refer to Section 3 for criteria and methodology.

#### 5. Issuance – European Emerging Market High Yield Bonds

#### 5.1. – 5.7., 5.9. European Emerging Market HY Bond Issuance

High yield bond issuance data are sourced from Dealogic. Criteria for all high yield issuance are found in section 3.

Emerging market European issuance deals are predominantly from Eastern Europe but will also additionally include Turkey, the Russian Federation, Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan, Azerbaijan, and Kyrgyzstan. Certain subinvestment grade countries are not included in the emerging market total, including, among others, Iceland and Greece.

## 5.8. European Emerging Market Corporate Bonds Outstanding

Data for corporate bonds outstanding are sourced from Bloomberg. Please refer to Section 3 for criteria and methodology.

#### 6. Credit Quality

#### 6.1. – 6.2. European Issuer Rating Actions

European issuer upgrades and downgrades are sourced from S&P. The breakdown by emerging market and developed Europe are from AFME's definition of developed and emerging markets and would be, under S&P's guidelines, a combination of both European and EMEA rating actions. Multiple downgrades of a single issuer are counted separately. Rating actions are inclusive of both corporate (both credit and merger-related) as well as sovereign ratings.

6.3. – 6.4. European Issuer Rating Actions by # of Ratings

Rating actions are sourced from S&P. Breakdown by emerging market and developed Europe are from AFME's definition of developed and emerging markets and would be, under S&P's guidelines, a combination of both European and EMEA rating actions.

#### 6.5. European High Yield Default Rate

European HY bond default rates are sourced from Standard and Poor's and Moody's, calculated on a trailing 12 month basis.

"Europe" for the S&P default rate is defined to include Austria, Belgium, Bulgaria, Channel Islands, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom. Countries are subject to revision.

#### 6.6. – 6.7. European Leveraged Loan Default Rate

European LL default rates are sourced from Fitch Leveraged Credit Database, calculated on a trailing 12 month basis.

#### 6.8. Leveraged Loan Recovery Rates

European LL recovery rate are sourced from Fitch Leveraged Credit Database, calculated on a trailing 12 month basis. Recovery rates are based on median cash realised (cash or cash-pay debt received) recoveries for senior loans and on average cash realised recoveries (excluding any equity/warrants given in a debt exchange) for mezzanine loans.

6.9. HY CDS spreads vs. liquidity-stress index and HY bonds rated B3 negative and lower in Europe

The liquidity stress index is calculated by Moody's Investor Services as the percentage of speculative grade companies with the weakest liquidity profile in EMEA. Speculative grade liquidity is categorised in one of four ways: SGL 1: Very good liquidity. Most likely to meet obligations over the coming 12 months through internal resources without relying on external sources of committed financing. SGL 2: Good liquidity. Likely to meet obligations during the coming 12 months through internal resources but may rely on external sources of committed financing. The issuer's ability to access committed financing is highly likely, based on Moody's evaluation of near term covenant compliance. SGL3: Adequate liquidity. Expected to rely on external sources of committed financing. Based on Moody's evaluation of near term covenant compliance there is only a modest cushion, and the issuer may require covenant relief in order to maintain orderly access to funding lines. SGL4: Weak liquidity. Relies on external sources of financing and the availability of that financing is, in Moody's opinion, highly uncertain. The percentage of bonds rated B3 negative or lower

The percentage of bonds rated B3 negative or lower is sourced from Moody's

#### 6.10. European Defaults

Defaults reported by either Moody's or Standard and Poor's in the European bond markets and loan markets, when available.

#### 7. Cash and Synthetic

#### 7.1. Loans and Bonds, Cash and Synthetic

Data are sourced from Markit and Thomson Reuters LPC. High yield bond cash and synthetic spreads from Markit; European leveraged loan cash bid prices from Thomson Reuters LPC, and European leveraged loans synthetic prices from Markit.

#### 7.2. European HY Bond Total Return

European HY bond total return data are sourced from the Bank of America-Merrill Lynch's Euro High Yield Index (HE00). The index tracks the performance of EUR-denominated belowinvestment-grade corporate debt publicly issued in the euro domestic or Eurobond markets. Qualifying securities must have a below-investment-grade rating and an investment-grade rated country of risk. Qualifying securities must have at least one year remaining term to maturity, fixed coupon schedule and minimum amount outstanding of €100 million. Original issue zero coupon bonds, "global securities" (debt issued simultaneously in the Eurobond and euro domestic markets), 144a securities and pay-in-kind securities, including toggle notes, qualify for inclusion in the index. Callable perpetual securities qualify provided they are at least one year from the first call date. Fixedto-floating rate securities also qualify provided they are callable within the fixed rate period and are at least one year from the last call prior to the date the bond transitions from a fixed to a floating rate security. Defaulted, warrant-bearing and euro legacy currency securities are excluded from the index.

#### 7.3. European Leveraged Loan Total Return

Total return data are provided by S&P LCD and are total returns from S&P's ELLI index, both ELLI and EUR-denominated ELLI. Total returns for ELLI EURdenominated data are unavailable for 2003 and 2004.

7.4. Asset Class Total Return (Cash Basis)

Total returns are sourced from respective index owners and Bank of America-Merrill Lynch's indices.

### Annex

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#### London Office

39th Floor 25 Canada Square London E14 5LQ United Kingdom

Switchboard: +44 (0)20 3828 2700

#### **Brussels Office**

Rue de la Loi, 82 1040 Brussels Belgium

Switchboard: +32 (0) 2 788 3971

#### **Frankfurt Office**

Skyper Villa Taunusanlage 1 60329 Frankfurt am Main Germany

Switchboard: +49 (0) 69 5050 60 590

#### AFME

Gary Simmons – Managing Director, High Yield Julio Suarez – Manager, Research

www.afme.eu

#### SIFMA

Kyle Brandon – Managing Director, Director of Research Justyna Podziemska – Senior Associate, Research

www.sifma.org

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