

Securitisation Data Report

European Structured Finance

Q4: 2017









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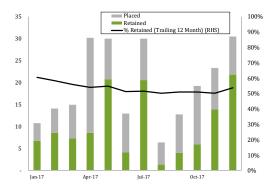
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Market Highlights and Commentary

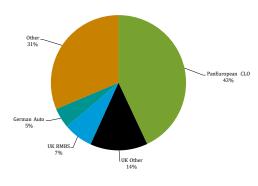
European Securitisation Issuance (EUR mn)



Sources: AFME/SIFMA Members, AFME, Bloomberg, Dealogic, Thomson Reuters, SIFMA

"In Q4 2017, EUR 73.1 billion of securitised product was were in the form of a refi or reset. issued in Europe, an increase of 48.7% from 03 2017 and an increase of 21.5% from Q4 2016."

Securitisation **European** Placed Issuance



Sources: Bloombera, AFME & SIFMA Member Firms, Dealogic, AFME SIEMA

Market Environment

Economic conditions

According to Eurostat, GDP rose 0.6% quarter-over-quarter (QoQ) in the Euro zone (EU19) and the EU28 during the fourth quarter of 2017. The unemployment rate stood at 8.7% (EU19) and 7.3% (EU28) as of the end of December 2017, the lowest rate recorded since January 2009 (EU19) and October 2008 (EU28).

Term Issuance and Outstanding Volumes

In Q4 2017, EUR 73.1 billion of securitised product was issued in Europe, an increase of 48.7% from Q3 2017 and an increase of 21.5% from Q4 2016. Of the EUR 73.1 billion issued, EUR 31.6 billion was placed, representing 43.2% of issuance, compared to the 47.3% of issuance in Q3 2017 and the 52.0% of issuance in Q4 2016.

CLO refinancing ("refis") activity continued in the fourth quarter of 2017, resulting in the asset class leading EUR volumes among placed asset classes in Q4 2017. According to Bank of America-Merrill Lynch, a little over half (55.6%) of all CLO issues in 2017

Outstanding volumes rose slightly to EUR 1.22 trillion outstanding at the end of Q4 2017, an increase of 1.3% QoQ but a decline of 4.3% YoY.

Credit Quality

In Europe, upgrades outpaced downgrades in Q4 2017, with upgrades concentrated in European CMBS and prime RMBS.

ABCP Trends

European asset backed commercial paper (ABCP) issuance was EUR 75.0 billion in Q4 2017, an increase of 11.6% QoQ (from €67.2 billion in O3 2017) and a 20.3% decline YoY (from €94.1 billion in Q4 2016). Multiseller conduits continue to dominate as the largest category of issuer in the ABCP market, particularly from France. European ABCP outstandings increased slightly from the previous quarter, ending the fourth quarter at EUR 16.7 billion, up by 6.5% from Q3 2017.

Major upcoming regulatory, legislative and policy initiatives

The STS framework

The STS Regulation, establishing the "Simple Transparent and Standardised" (STS) securitisation framework, and the related CRR Amendment, which form the new STS Securitisation Package, have been published in the Official Journal of the EU on 28 December 2017. Both texts entered into force on 18 January 2018, however, the date of application of both the STS Regulation and CRR Amendment is 1 January 2019. Attention has turned now to the implementation and development of the related secondary legislation, including technical standards and guidelines.

EBA and ESMA Consultations on the Level 2 legislation

In December 2017, the EBA and ESMA published five consultations on key parts of the recently agreed STS Securitisation reform. The consultations included:

<u>EBA draft RTS on risk retention for securitisation transactions.</u> The draft regulatory technical standards are setting the requirements for originators, sponsors and original lenders related to risk retention. The RTS will replace the current Commission Delegated Regulation on risk retention.

the related CRR Amendment (...) *have been published in the Official Journal of the EU on 28 December 2017. Both* BBA draft RTS on the homogeneity of underlying exposures in securitisation. The RTS outline the criteria for the underlying exposures in securitisation in order to be deemed homogeneous. The RTS are applicable to both asset-backed commercial paper (ABCP) and to term securitisations. The issue of homogeneity will likely remain a challenging area.

The EBA consultations closed on 15 March 2019. AFME responded to both consultation papers.

date of application of both the STS Regulation and CRR Amendment is 1 January 2019"

<u>ESMA draft RTS and ITS on disclosure requirements, operational</u> <u>standards, and access conditions</u>, which covers the securitisation disclosure requirements, operational standards for handling disclosures, and the terms and conditions of access for users of securitisation disclosures.

ESMA draft RTS/ITS technical standards on content and format of the STS notification, which specifies the information that the originator, sponsor and SSPE are required to provide in order to comply with their STS notification requirements.

The ESMA consultations closed on 19 March 2019. AFME responded to the Consultation Papers on Disclosures and on STS Notification.

Commission's proposals on EMIR Refit

The European Commission's proposals under the European Market Infrastructure Regulation (EMIR)—which require swaps entered by securitisation special purpose entities (SSPEs) to post initial and variation margin and to be admitted to clearing— are now being discussed in the European Parliament, where the most recent drafts show weakening support. AFME remains engaged.

EBA significant risk transfer consultation

On 19 December 2017 AFME responded to the EBA public consultation on its discussion paper on the significant risk transfer in securitisation. The paper put forward proposals to strengthen the regulation and supervision framework of significant risk transfer and sought stakeholders' views on how to further harmonise the regulation and supervision of risk transfer through securitisations. The EBA's proposals are based on the

"The STS Regulation (...) and the related CRR Amendment (...) have been published in the Official Journal of the EU on 28 December 2017. Both texts entered into force on 18 January 2018, however, the date of application of both the STS Regulation and CRR Amendment is 1 January 2019"

Major upcoming regulatory, legislative and policy initiatives

newly agreed European securitisation legislation. A further round of consultations on this subject is expected later in 2018.

Review of European Supervisory Authorities

The final AFME response to the Commission's proposal on the ESAs review was submitted on 23 January via the European Commission's Better Regulation portal. AFME abstained from commenting on the issue of whether the ESAs shall have the powers to effective coordinate the NCAs' supervision of the outsourcing, delegation and risk transfer arrangements in third countries both ex-ante and on an on-going basis (Article 31a of the EC's proposal).

Libor and benchmark rates

Following announcements on the phasing-out of Libor by 2021, AFME continues to be engaged in a transition to an alternative base rate after that date. Pending a final determination on what the replacement for Libor will be, AFME is working with several other trade associations to coordinate the industry's efforts on Libor replacement. We also work on draft Model Wording to create uniform transitional language for new securitisation transactions.

Liquidity Coverage Ratio (LCR)

On the 24 January 2018, the EC opened a short consultation on the draft Delegated Act on the LCR. With regard to securitisation, the proposal aligns the LCR eligibility criteria with the STS requirements, however it does not promote the STS to Level 2A. STS securitisations remain as Level 2B assets. In our response, AFME stated that all STS securitisations, whether term or ABCP, should be classified as Level 2A assets with maximum allocations and minimum haircuts equivalent to the current treatment of covered bonds of Credit Quality Step (CQS) 2. The EC is expected to publish the final text of the LCR revision at the end of Q1 or in Q2 2018.

1 Issuance

€ BILLIONS

1.1 Issuance European Historical Issuance

	Q1	Q2	Q3	Q4	TOTAL
2008	47.3	194.7	157.5	419.2	818.7
2009	131.0	83.8	113.3	95.8	423.9
2010	75.5	32.6	110.7	159.2	378.0
2011	115.2	67.3	57.1	137.2	376.8
2012	64.3	67.7	62.0	63.9	257.8
2013	32.8	53.2	38.4	56.4	180.8
2014	20.0	99.5	37.8	59.8	217.1
2015	35.7	50.3	57.8	72.8	216.6
2016	57.0	75.8	46.6	60.1	239.6
2017	39.8	73.0	49.1	73.1	235.0

1.2 US and Australia Historical Issuance

	US	AU
2008	967.3	6.6
2009	1,447.2	9.7
2010	1,245.9	15.5
2011	1,068.9	20.4
2012	1,609.0	14.8
2013	1,565.1	22.4
2014	1,190.9	22.1
2015	1,744.5	19.9
2016	1,860.4	16.4
2017	1,712.5	29.2

Sources: Bloomberg, Citigroup, Dealogic, Bank of America-Merrill Lynch, Deutsche Bank, JP Morgan, Macquarie, Thomson Reuters, Unicredit, AFME, SIFMA

1.3 European Issuance by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
ABS	7.7	10.0	12.4	22.6	52.7
CDO/CLO	6.6	14.0	14.8	13.8	49.2
CMBS	0.3			0.54	0.9
RMBS	23.1	41.8	21.6	31.6	118.1
SME	2.0	7.2	0.4	4.5	14.1
WBS/PFI					0.0
Total	39.8	73.0	49.1	73.1	235.0

1.4 European Issuance by Retention

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Placed	17.3	39.6	23.3	31.6	111.7
Retained	22.5	33.5	25.9	41.5	123.3
Total ²	39.8	73.0	49.1	73.1	235.0

1.5 Australia Issuance by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
ABS	2.4	0.3	1.0	0.8	4.6
RMBS	5.1	6.1	6.3	6.6	24.1
CMBS			0.3	0.1	0.4
Total	7.5	6.4	7.7	7.6	29.2

1.6 US Issuance by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
ABS	54.7	54.8	40.8	48.7	199.1
CDO	17.9	36.8	23.0	21.3	99.1
Agency MBS	326.3	280.7	311.2	305.1	1,223.3
Non-Agency CMBS	14.4	20.2	23.5	25.6	83.7
Non-Agency RMBS	26.3	34.4	20.9	25.7	107.4
Total	439.6	426.9	419.5	426.5	1,712.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
10.5	28.5	13.7	18.2	70.9
2.8	4.8	4.7	9.3	21.7
0.3	0.5	2.8	0.0	3.7
38.8	39.7	20.2	22.0	120.6
4.6	0.7	4.8	9.8	19.9
	1.6	0.5	0.8	2.9
57.0	75.8	46.6	60.1	239.6

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
14.5	29.8	21.6	31.3	97.2
42.5	46.0	25.0	28.8	142.4
57.0	75.8	46.6	60.1	239.6

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0.6	1.7	0.0	0.7	3.0
2.3	2.6	2.1	5.9	13.0
		0.3	0.2	0.5
2.9	4.3	2.4	6.8	16.4

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
41.4	49.2	48.1	47.5	186.2
6.9	16.7	23.3	60.8	107.7
251.2	322.7	402.9	439.8	1,416.6
17.5	10.2	17.6	25.5	70.8
13.2	19.5	25.2	21.2	79.1
330.2	418.3	517.1	594.8	1,860.4

Sources: Bank of America Merrill-Lynch, Bloomberg, Citigroup, Dealogic, Deutsche Bank, JP Morgan, Macquarie, Thomson Reuters, Unicredit, AFME, SIFMA



€ BILLIONS

1.7 Issuance by Country of Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Belgium		11.7	0.6		12.3
Denmark					0.0
France	8.6	12.6	13.9	1.8	36.9
Germany	0.5	3.4	3.6	5.4	12.9
Greece					0.0
Ireland	0.7	0.9		2.8	4.4
Italy	6.7	2.5	2.9	17.4	29.5
Netherlands	6.6	3.2	6.0		15.9
Portugal		0.3		0.8	1.1
Spain	4.4	2.7	3.0	15.5	25.6
UK	4.8	21.3	7.5	13.6	47.2
Other EU	0.6		0.2	0.7	1.5
Other Europe	0.3	0.1	0.6	1.3	2.3
PanEurope	6.6	14.2	10.8	13.8	45.4
Multinational	0.0				0.0
European Total	39.8	73.0	49.1	73.1	235.0
Australia Total	7.5	6.4	7.7	7.6	29.2
US Total	439.6	426.9	419.5	426.5	1,712.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
	3.6			3.6
				-
	8.2	10.2	2.7	21.0
2.2	5.8	4.4	5.2	17.6
		0.6	0.7	1.3
2.0	0.0	0.6	2.0	4.6
11.8	9.1	9.2	11.2	41.3
9.6	17.4	3.4	3.1	33.4
		0.6	0.7	1.3
17.3	3.6	4.2	8.9	34.0
11.0	20.6	8.2	15.3	55.1
0.2	0.2	0.4	0.6	
0.1	1.6	0.0	0.2	2.0
2.6	5.2	4.7	9.6	22.1
				-
57.0	75.3	46.5	60.0	238.9
2.9	4.3	2.4	6.8	16.4
330.2	418.3	517.1	594.8	1,860.4

1.8 Issuance by Collateral Type and Country of Collateral: 4Q 2017

	ABS	CDO/CLO	CMBS	RMBS	SME	WBS/PFI	TOTAL
Belgium							-
Denmark							-
France	1.7	0.1					1.8
Germany	2.9			2.5			5.4
Greece							-
Ireland	0.0			2.8			2.8
Italy	7.1		0.1	9.4	0.8		17.4
Netherlands							-
Portugal	0.8						0.8
Spain	0.8			10.9	3.8		15.5
UK	8.0	0.0	0.4	5.2			13.6
Other EU	0.7						0.7
Other Europe	0.5			0.8			1.3
PanEurope	0.1	13.7					13.8
Multinational							-
European Total	22.6	13.8	0.5	31.6	4.5	-	73.1

	ABS	CDO	AGENCY MBS	NON- AGENCY CMBS	NON- AGENCY RMBS	TOTAL
Australia Total	0.8			0.1	6.6	7.6
US Total	48.7	21.3	305.1	25.6	25.7	426.5

Sources: Bloomberg, Citigroup, Dealogic, Bank of America-Merrill Lynch, Deutsche Bank, JP Morgan, Macquarie, Thomson Reuters, Unicredit, AFME, SIFMA

Issuance

€ BILLIONS

1.9 European Issuance by Rating

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
AAA	20.3	50.1	23.5	19.3	113.3
AA	8.6	6.7	13.5	23.3	52.3
Α	4.6	3.9	4.9	13.7	27.1
BBB & Below	1.8	3.1	2.5	4.8	12.3
Not Rated	4.4	9.1	4.7	11.8	30.1
European Total2	39.8	73.0	49.1	73.1	235.0

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
21.7	47.7	18.6	26.2	114.1
4.5	7.2	5.2	9.8	26.7
20.0	6.0	9.6	9.2	44.8
4.7	3.0	3.2	3.8	14.7
6.2	11.9	10.0	11.1	39.3
57.0	75.8	46.6	60.1	239.6

1.10 Australia Issuance by Rating

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
AAA	6.6	6.1	7.0	6.5	26.2
AA	0.4	0.1	0.3	0.5	1.4
Α	0.2	0.1	0.1	0.2	0.6
BBB & Below	0.2	0.0	0.1	0.2	0.6
Not Rated	0.1	0.0	0.1	0.1	0.4
US Total	7.5	6.4	7.7	7.6	29.2

1.11 US Issuance by Rating

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
AAA	56.2	73.5	57.6	61.3	248.6
AA	7.2	10.6	8.4	8.5	34.7
Α	7.1	11.0	7.0	8.1	33.3
BBB & Below	9.1	15.0	12.4	11.1	47.6
Not Rated	33.8	36.1	22.9	32.4	125.1
Agency MBS	326.3	280.7	311.2	305.1	1,223.3
US Total	439.6	426.9	419.5	426.5	1,712.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
2.3	3.7	2.2	6.0	14.2
0.4	0.3	0.1	0.4	1.2
0.1	0.1	0.1	0.1	0.3
0.0	0.1	0.1	0.1	0.3
0.1	0.2	0.0	0.1	0.4
2.9	4.3	2.4	6.8	16.4

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
35.3	44.2	56.6	73.1	209.4
4.8	4.3	5.4	11.0	25.5
5.6	6.0	6.3	12.5	30.5
8.2	10.6	8.6	15.3	42.6
25.1	30.4	37.3	43.0	135.7
251.2	322.7	402.9	439.8	1,416.6
330.2	418.3	517.1	594.8	1,860.4

Sources: Bank of America-Merrill Lynch, Bloomberg, Citigroup, Dealogic, Deutsche Bank, JP Morgan, Macquarie, Thomson Reuters, Unicredit, AFME, SIFMA

1.12 Securitisation Issuance by Deal Size: 4Q 2017

INCLUDING RETAINED DEALS								
	EUR	OPE	Australia		US			
	# of Issues	€ Billions	# of Issues	€ Billions	# of Issues	€ Billions		
Less than 0.01 Billion	0%	0%	0%	0%	0%	0%		
0.01-0.1 Billion	5%	0%	0%	0%	3%	1%		
0.1-1.0 Billion	82%	61%	73%	43%	52%	48%		
More than 1.0 Billion	14%	39%	27%	57%	4%	12%		
Agency MBS	N/A	N/A	N/A	N/A	41%	40%		
Total	100%	100%	100%	100%	100%	100%		

Sources: Dealogic, Macquarie



2 Outstanding

€ BILLIONS

2.1 European Outstandings by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
ABS	208.2	203.1	205.5	214.9
CDO/CLO	120.6	121.1	111.2	116.3
CMBS	64.2	61.5	55.3	54.6
RMBS	700.3	710.9	691.5	696.4
SME	86.6	86.2	80.4	78.7
WBS/PFI	68.5	66.7	64.6	63.9
Total	1,248.3	1,249.5	1,208.6	1,224.9

2.2 Australia Outstandings by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
ABS	7.8	6.6	6.7	6.5
CMBS	0.7	0.5	0.5	0.5
RMBS	51.5	48.0	51.9	53.1
Total	60.0	55.2	59.0	60.1

2.3 US Outstandings by Collateral

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
ABS	1,308.5	1,241.5	1,203.2	1,205.8
Agency MBS	6,223.0	5,870.5	5,762.8	5,768.0
Non-Agency RMBS	782.9	715.3	675.2	651.9
Non-Agency CMBS	479.9	433.4	420.0	422.9
Total	8,794.4	8,260.6	8,061.3	8,048.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4
194.8	204.4	203.2	213.4
108.3	109.1	109.8	124.7
77.1	75.1	70.6	67.6
738.0	738.8	715.9	714.1
89.5	84.5	84.6	89.6
70.0	71.3	70.2	70.0
1,277.7	1,283.2	1,254.3	1,279.4

2016:Q1	2016:Q2	2016:Q3	2016:Q4
6.6	7.7	6.8	6.6
0.3	0.3	0.5	0.7
49.3	48.0	46.2	47.3
56.2	55.9	53.6	54.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4
1,201.6	1,237.7	1,222.4	1,319.1
5,502.6	5,692.7	5,716.9	6,207.3
793.6	795.6	772.8	804.5
521.4	512.0	477.3	505.3
8,019.2	8,238.1	8,189.4	8,836.2

Sources: Bloomberg (US & Europe), Fannie Mae (US), Federal Reserve (US), Freddie Mac (US), Ginnie Mae (US),

Loan Performance (US), Dealogic (US), Macquarie (Australia), Thomson Reuters (US), AFME & SIFMA Estimates (US & Europe)

€ BILLIONS

2.4 Outstandings by Country of Collateral: 2015-2016

	2016:Q1	2016:Q2	2016:Q3	2016:Q4
Austria	2.1	2.0	1.9	1.9
Belgium	64.5	66.6	65.2	62.1
Finland	1.1	1.0	0.9	1.4
France	76.7	81.2	85.0	85.4
Germany	84.2	83.2	81.7	85.1
Greece	20.4	20.4	19.0	19.6
Ireland	33.4	32.5	30.9	30.8
Italy	145.8	140.2	141.7	145.5
Netherlands	207.3	216.0	212.7	202.3
Portugal	29.8	29.2	29.0	28.8
Russia	1.5	1.7	1.4	1.5
Spain	171.0	169.8	166.2	168.9
Turkey	1.4	1.2	1.2	1.1
UK	326.7	325.7	305.1	318.3
Other	4.8	5.5	5.2	5.1
PanEurope	66.3	69.4	72.2	90.0
Multinational	40.6	37.9	34.9	31.8
European Total	1,277.7	1,283.2	1,254.3	1,279.4
Australia Total	56.2	55.9	53.6	54.5
US Total	8,019.2	8,238.1	8,189.4	8,836.2

2015:Q1	2015:Q2	2015:Q3	2015:Q4
2.2	1.9	1.8	2.1
69.8	67.7	65.8	65.7
1.1	1.0	1.0	1.2
70.3	70.4	69.6	78.6
71.2	68.5	88.7	88.1
24.2	24.2	21.4	20.6
35.9	34.7	33.5	32.0
157.5	158.3	155.2	150.7
247.1	243.7	240.4	222.3
34.5	34.0	32.1	32.1
0.9	1.2	1.5	1.4
170.4	170.5	163.7	161.8
1.6	1.5	1.5	1.5
375.5	366.8	349.0	336.3
4.4	4.7	4.4	5.0
52.3	55.7	56.1	61.5
54.3	50.6	44.7	41.7
1,373.1	1,355.4	1,330.4	1,302.6
65.4	62.7	56.4	57.8
8,384.7	8,137.6	8,138.0	8,397.7

2017

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Austria	1.9	1.8	1.8	1.7
Belgium	60.8	66.4	65.8	64.5
Finland	1.3	1.2	1.1	1.6
France	85.0	95.8	102.5	100.9
Germany	76.0	73.6	73.7	76.1
Greece	19.3	19.2	17.5	18.6
Ireland	30.3	27.4	26.3	28.6
Italy	144.8	136.9	133.0	142.0
Netherlands	201.1	194.4	179.0	173.1
Portugal	27.7	26.6	25.9	25.8
Russia	1.4	1.4	1.1	1.9
Spain	168.6	165.2	161.1	165.9
Turkey	1.1	1.1	1.1	1.3
UK	306.7	315.6	303.8	304.8
Other	5.6	5.1	5.4	5.6
PanEurope	89.7	93.6	88.6	94.1
Multinational	27.1	24.4	20.8	18.5
European Total	1,248.3	1,249.5	1,208.6	1,224.9
Australia Total	60.0	55.2	59.0	60.1
US Total	8,794.4	8,260.6	8,061.3	8,048.5

Sources: Bloomberg (US & Europe), Fannie Mae (US), Federal Reserve (US), Freddie Mac (US), Ginnie Mae (US),

Loan Performance (US), Dealogic (US), Macquarie (Australia), Thomson Reuters (US), AFME & SIFMA Estimates (US & Europe)



Outstanding

2.5 European Outstandings by Moody's Investors Service Ratings (as a percentage of total Moody's rated securitisations)

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Aaa/AAA	47.41%	48.22%	48.56%	48.45%
Aa/AA	29.49%	28.60%	29.23%	30.18%
A/A	13.38%	13.81%	13.27%	12.97%
Baa/BBB	4.20%	4.05%	3.66%	3.61%
Ba/BB	1.78%	1.72%	1.73%	1.70%
B/B	1.24%	1.56%	1.54%	1.55%
Caa/CCC	1.66%	1.28%	1.32%	0.96%
Ca/CC	0.52%	0.47%	0.42%	0.33%
C/C	0.33%	0.29%	0.26%	0.25%
Total	100.01%	100.00%	99.99%	100.00%

2016:Q1	2016:Q2	2016:Q3	2016:Q4
46.37%	46.33%	47.64%	48.03%
28.46%	29.75%	29.65%	29.07%
13.82%	13.42%	12.74%	13.07%
5.26%	4.81%	4.35%	4.22%
2.08%	1.91%	1.87%	1.89%
1.19%	1.04%	1.17%	1.18%
1.82%	1.77%	1.63%	1.68%
0.64%	0.60%	0.59%	0.52%
0.36%	0.37%	0.35%	0.34%
100.00%	100.00%	100.00%	100.00%

2.6 Australia Outstandings by Standard and Poor's Ratings (as a percentage of total S&P rated securitisations)

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Aaa/AAA	86.80%	87.33%	87.47%	87.71%
Aa/AA	5.42%	5.15%	5.27%	5.07%
A/A	2.68%	2.58%	2.42%	2.46%
Baa/BBB	0.86%	0.86%	0.86%	0.90%
Ba/BB	0.34%	0.33%	0.36%	0.41%
B/B	0.13%	0.13%	0.16%	0.18%
Caa/CCC	0.00%	0.00%	0.00%	0.00%
Ca/CC	0.00%	0.00%	0.00%	0.00%
C/C	0.03%	0.03%	0.02%	0.02%
D	0.00%	0.00%	0.00%	0.00%
NR	3.74%	3.61%	3.45%	3.25%
Total	100.00%	100.00%	100.00%	100.00%

2016:Q1	2016:Q2	2016:Q3	2016:Q4
86.54%	87.01%	86.60%	86.62%
6.26%	5.48%	5.57%	5.42%
2.53%	2.61%	2.72%	2.81%
0.76%	0.78%	0.82%	0.85%
0.29%	0.32%	0.34%	0.36%
0.11%	0.10%	0.13%	0.14%
0.00%	0.00%	0.00%	0.00%
0.00%	0.00%	0.00%	0.00%
0.02%	0.02%	0.03%	0.03%
0.00%	0.00%	0.00%	0.00%
3.49%	3.68%	3.80%	3.77%
100.00%	100.00%	100.00%	100.00%

2.7 US Outstandings by Moody's Investors Service Ratings (as a percentage of total Moody's rated securitisations)

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Aaa/AAA	28.35%	28.58%	29.25%	30.39%
Aa/AA	5.46%	5.36%	5.21%	5.04%
A/A	6.09%	6.07%	5.77%	5.57%
Baa/BBB	8.56%	8.39%	8.24%	8.20%
Ba/BB	6.63%	6.49%	6.45%	6.30%
B/B	5.83%	5.77%	5.74%	5.52%
Caa/CCC	20.45%	20.69%	20.67%	20.51%
Ca/CC	12.05%	12.03%	12.03%	11.94%
C/C	6.57%	6.61%	6.63%	6.54%
Total	100.00%	100.00%	99.99%	100.01%

2016:Q1	2016:Q2	2016:Q3	2016:Q4
28.68%	28.75%	28.37%	27.92%
4.99%	5.30%	5.53%	5.44%
6.20%	6.09%	6.07%	6.11%
8.04%	7.95%	7.91%	8.62%
6.15%	6.08%	6.12%	6.46%
6.55%	5.73%	5.88%	5.82%
19.49%	20.19%	20.26%	20.34%
11.67%	11.72%	11.77%	11.85%
8.22%	8.20%	8.10%	7.45%
100.00%	100.00%	100.00%	100.01%

Sources: Macquarie, Moody's Investors Service, Standard and Poor's



Outstanding

€ BILLIONS

2.8 Australian Outstandings by Vintage

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
2017	7.3	10.3	17.4	22.3
2016	12.6	11.0	10.6	9.6
2015	12.3	10.6	9.6	8.7
2014	10.3	9.0	8.2	7.5
2013	6.9	5.8	5.3	4.9
2012	2.6	2.2	2.0	1.8
2011	3.2	2.8	2.6	2.4
2010	1.8	1.5	1.4	1.2
2009	0.8	0.6	0.6	0.5
2008	0.0	0.0	0.0	0.1
2007	1.0	0.4	0.3	0.2
2006	0.5	0.4	0.4	0.4
2005	0.2	0.2	0.2	0.1
2004	0.1	0.1	0.1	0.1
2003	0.0	0.0	0.0	0.0
2002	0.0	0.0	0.0	0.0
Prior	0.1	0.1	0.1	0.1
Total	59.9	55.2	59.0	60.0

2.9 European Outstandings by Vintage

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
2017	37.4	105.3	161.4	228.6
2016	230.1	223.5	203.0	196.4
2015	174.6	163.7	149.0	139.7
2014	133.7	124.3	111.0	103.9
2013	77.5	70.8	68.1	64.2
2012	69.4	62.1	39.3	34.4
2011	43.5	37.4	36.1	33.7
2010	95.4	94.6	92.5	90.9
2009	50.3	49.2	47.4	45.6
2008	88.2	85.1	81.8	79.4
Prior	246.4	231.0	215.4	208.1
Total	1,246.3	1,246.9	1,204.9	1,224.9

2016:Q1	2016:Q2	2016:Q3	2016:Q4
N/A	N/A	N/A	N/A
2.6	6.9	8.6	13.0
15.9	14.6	13.7	12.7
13.4	12.3	11.5	10.7
9.1	8.4	7.8	7.2
3.6	3.2	2.9	2.7
4.1	3.6	3.5	3.3
2.4	2.2	2.1	1.9
1.2	1.1	1.0	0.9
0.3	0.2	0.1	0.1
2.2	1.8	1.2	1.0
0.9	0.8	0.5	0.4
0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.1
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.1
56.1	55.8	53.5	54.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4
N/A	N/A	N/A	N/A
58.2	115.3	155.0	235.5
200.2	194.4	189.1	183.8
168.9	163.5	153.9	147.9
106.9	99.3	89.3	83.2
98.2	92.0	87.1	78.5
79.2	70.7	60.6	48.9
104.7	103.2	99.1	97.9
59.9	56.4	53.8	51.9
101.6	98.4	94.0	90.8
300.0	289.7	271.9	260.5
1,277.7	1,282.9	1,253.9	1,278.9

Sources: Bloomberg, Macquarie, AFME, SIFMA



€ BILLIONS

2.10 European Outstandings by Country and Collateral: 3Q 2017

	ABS	CDO/CLO	CMBS	RMBS	SME	WBS/PFI	TOTAL
Austria	0.4			1.4			1.8
Belgium	0.2		0.1	45.7	19.8		65.8
Finland	0.6					0.5	1.1
France	21.7		0.4	80.4	0.0		102.5
Germany	38.8	0.2	1.6	25.7	7.3	0.0	73.7
Greece	8.5	0.2	0.2	1.2	7.3		17.5
Ireland	0.4		0.0	25.7	0.19		26.3
Italy	56.8	0.4	6.3	54.3	14.8	0.3	133.0
Netherlands	3.5	0.1	0.7	170.4	4.3		179.0
Portugal	3.1			17.9	4.9		25.9
Russia	0.0			1.1	0.00		1.1
Spain	24.7	0.4	0.1	120.8	15.2		161.1
Turkey	1.1						1.1
UK	40.0	7.3	41.4	145.9	6.0	63.1	303.8
Other	4.2	0.2		1.0			5.4
PanEurope	1.2	82.2	4.4	0.1	0.4	0.1	88.6
Multinational	0.4	20.1				0.4	20.8
European Total	205.5	111.2	55.3	691.5	80.4	64.6	1208.6

4Q 2017

	ABS	CDO/CLO	CMBS	RMBS	SME	WBS/PFI	TOTAL
Austria	0.4			1.3			1.7
Belgium	0.2		0.1	45.1	19.2		64.5
Finland	1.1					0.5	1.6
France	21.8	0.07	0.0	79.0	0.0		100.9
Germany	39.0	0.2	1.5	28.1	7.2	0.0	76.1
Greece	8.1	1.8	0.2	1.2	7.3		18.6
Ireland	0.45		0.0	27.9	0.19		28.6
Italy	60.5	0.4	6.2	60.2	14.3	0.3	142.0
Netherlands	3.3	0.1	0.7	164.8	4.1		173.1
Portugal	3.7			17.4	4.8		25.8
Russia				1.9	0.00		1.9
Spain	24.3	0.4	0.1	125.9	15.4		165.9
Turkey	1.3						1.3
UK	44.9	7.4	41.5	142.5	5.9	62.5	304.8
Other	4.4	0.2		1.0			5.6
PanEurope	1.3	87.9	4.2	0.1	0.4	0.1	94.1
Multinational	0.2	17.9				0.4	18.5
European Total	214.9	116.3	54.6	696.4	78.7	63.9	1224.9

Sources: Bloomberg, AFME, SIFMA

3 Credit Quality – Rating Changes

Upgrades/Downgrades by Country

3.1 DBRS

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
France	0/0	2/0	11/0	7/0	20/0
Germany	3/0	4/0	11/0	7/0	25/0
Italy	4/3	30/4	18/1	14/0	66/8
Netherlands	1/0	0/0	0/0	1/4	2/4
Spain	0/1	23/4	1/0	5/0	29/5
UK	0/0	0/1	0/0	19/3	19/4
Multinational	2/11	6/3	4/0	7/0	19/14
European Total	10/15	65/12	45/1	60/7	180/35
US	518/286	593/37	338/7	352/24	1801/354

3.2 Fitch Ratings

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
France	0/1	5/2	3/0	8/4	16/7
Germany	7/8	3/16	2/0	7/9	19/33
Italy	12/6	15/125	12/1	3/0	42/132
Netherlands	2/24	10/9	2/13	16/1	30/47
Spain	30/14	37/8	23/7	15/5	105/34
UK	154/17	71/10	29/2	60/25	314/54
Multinational	0/0	7/0	1/0	0/0	8/0
European Total	208/119	158/172	81/23	125/45	572/359
US	852/438	369/171	314/991	1589/642	3124/2242

3.3 Moody's Investors Service

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
France	1/0	0/0	4/0	4/0	9/0
Germany	4/1	1/1	7/0	7/0	19/2
Italy	1/0	14/0	9/0	9/0	33/0
Netherlands	3/0	6/0	1/1	1/1	11/2
Spain	33/0	6/1	30/3	30/3	99/7
UK	1/2	11/1	126/14	126/14	264/31
Multinational	29/3	32/2	60/1	60/1	181/7
European Total	78/8	73/0	291/0	461/0	903/8
US	612/82	694/0	694/0	694/0	2694/82

3.4 Standard & Poor's

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
France	2/0	0/0	0/0	0/0	2/0
Germany	5/4	2/4	7/0	2/1	16/9
Italy	5/4	1/1	8/0	91/3	105/8
Netherlands	13/3	3/0	9/4	3/0	28/7
Spain	41/5	23/3	10/2	5/2	79/12
UK	44/8	33/12	50/12	206/1	333/33
Multinational	63/16	72/15	37/22	9/8	181/61
European Total	173/40	134/35	121/40	316/15	744/130
US	385/308	437/206	268/468	336/235	1426/1217

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0/0	1/0	1/0	2/0	4/0
2/0	6/0	6/0	5/0	19/0
9/0	14/1	14/1	9/2	46/4
0/0	0/0	0/0	0/0	0/0
3/1	41/3	41/3	2/0	87/7
0/0	2/1	2/1	0/0	4/2
2/0	6/0	6/0	7/0	21/0
16/1	70/5	70/5	25/2	181/13
413/3	538/5	538/5	277/2	1766/15

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
1/0	3/0	3/0	17/4	24/4
8/6	4/13	7/8	21/4	40/31
3/0	14/0	15/5	3/2	35/7
1/2	9/1	1/13	9/11	20/27
4/7	33/1	41/17	8/5	86/30
51/11	92/12	19/5	41/20	203/48
0/1	0/0	0/0	2/0	2/1
69/27	157/31	97/48	118/50	441/156
436/400	512/132	443/770	2714/692	4105/1994

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
4/0	2/0	0/0	6/0	12/0
0/2	5/3	4/1	0/1	9/7
0/0	0/0	13/1	0/1	13/2
2/0	25/0	0/4	1/0	28/4
0/0	203/0	4/2	0/0	207/2
0/9	10/3	11/7	10/1	31/20
152/2	65/7	56/3	44/9	317/21
167/13	337/15	112/19	66/12	682/59
1562/628	1182/301	1472/745	1322/236	5538/1910

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0/0	1/0	0/0	0/0	1/0
1/5	2/4	6/9	4/1	13/19
0/1	3/0	4/0	0/2	7/3
17/7	32/16	8/6	0/1	57/30
52/7	1/6	2/0	2/0	57/13
33/5	47/33	123/17	51/17	254/72
161/19	53/13	110/14	77/26	401/72
264/44	139/72	253/46	134/47	790/209
394/381	569/588	750/269	662/475	2375/1713

Sources: DBRS, Fitch Ratings, Moody's Investors Service, Standard & Poor's



Credit Quality – Rating Changes

Upgrades/Downgrades by Collateral

3.5 DBRS - Europe

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	5/0	9/0	12/0	12/0	38/0
CDO	0/10	13/3	10/0	10/0	33/13
CMBS	0/2	0/4	0/0	0/4	0/10
Credit Card	1/1	18/1	2/0	10/0	31/2
RMBS (prime)	3/1	20/4	18/1	24/3	65/9
RMBS (non-prime)	0/1	1/0	3/0	3/0	7/1
Other ABS	1/0	4/0	0/0	1/0	6/0
Total	10/15	65/12	45/1	60/7	180/35

3.6 Fitch Ratings - Europe¹

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	1/0	5/7	10/0	9/0	25/7
Credit Card	0/0	3/0	0/0	10/0	13/0
Other ABS	7/48	10/19	9/0	9/3	35/70
CDO	21/10	40/27	21/0	48/1	130/38
CMBS	6/12	8/25	8/2	0/14	22/53
RMBS (prime)	36/40	33/88	30/21	41/8	140/157
RMBS (non-conforming)	125/0	57/6	3/0	6/19	191/25
Other RMBS	12/9	2/0	0/0	2/0	16/9
Total	208/119	158/172	81/23	125/45	572/359

3.7 Moody's Investors Service - Europe

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	11/0	0/1	0/5	9/8	20/14
CDO	29/2	32/1	60/1	130/1	251/5
CMBS	0/4	2/4	0/15	5/15	7/38
Credit Card	0/0	0/0	2/0	2/0	4/0
RMBS (prime)	33/2	29/6	100/7	133/50	295/65
RMBS (non-conforming)	5/0	10/1	129/4	182/6	326/11
Total	78/8	73/13	291/32	461/80	903/133

3.8 Standard & Poor's - Europe

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	6/0	2/0	3/0	1/0	12/0
CDO	69/9	78/14	51/16	20/8	218/47
CMBS	2/18	0/16	7/22	5/2	14/58
Credit Card	0/0	0/0	0/0	0/0	0/0
RMBS (prime)	61/10	24/4	27/2	92/5	204/21
RMBS (non-conforming)	35/3	30/1	33/0	198/0	296/4
Total	173/40	134/35	121/40	316/15	744/130

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
2/0	9/0	9/0	9/0	29/0
8/0	12/0	12/0	0/2	32/2
0/0	1/1	1/1	0/0	2/2
0/0	5/0	5/0	6/0	16/0
5/1	33/4	33/4	10/0	81/9
1/0	5/0	5/0	0/0	11/0
0/0	5/0	5/0	0/0	10/0
16/1	70/5	70/5	25/2	181/13

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0/0	7/0	11/0	12/1	30/1
0/0	0/0	0/0	0/0	0/0
9/1	4/0	18/0	2/3	33/4
5/3	19/8	22/0	68/4	114/15
4/11	15/14	3/6	0/13	22/44
16/12	35/0	35/17	31/10	117/39
35/0	75/5	0/14	4/18	114/37
8/5	2/0	8/1	1/1	19/7
69/27	157/31	97/48	118/50	441/156

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0/0	7/0	1/0	0/0	8/0
152/2	65/3	56/3	41/9	314/17
0/2	0/7	1/8	1/2	2/19
0/0	0/0	0/0	0/0	0/0
14/1	238/4	40/3	11/1	303/9
1/8	27/1	14/5	13/0	55/14
167/13	337/15	112/19	66/12	682/

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
2/0	2/0	5/0	3/0	12/0
191/15	64/3	128/11	86/22	469/51
1/13	0/37	6/27	0/16	7/93
0/0	2/0	0/0	2/6	4/6
68/14	26/20	21/6	2/2	117/42
2/2	45/12	93/2	41/1	181/17
264/44	139/72	253/46	134/47	790/209

Sources: DBRS, Fitch Ratings, Moody's Investors Service, Standard & Poor's

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¹ The European totals may not match the constituent parts as a small number of European RMBS transactions are not categorised as either Prime or Nonconforming.

Upgrades/Downgrades by Collateral

3.9 DBRS - US

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	17/0	54/0	70/0	20/0	161/0
CDO	17/0	2/28	5/0	9/15	33/43
CMBS	56/271	36/7	23/3	45/3	160/284
Credit Card	2/0	8/0	0/0	0/0	10/0
RMBS	418/13	463/2	204/0	265/6	1350/21
Other ABS	8/2	30/0	36/4	13/0	87/6
Total	518/286	593/37	338/7	352/24	1801/354

3.10 Fitch Ratings - US

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	33/0	22/0	16/0	34/0	105/0
Credit Card	0/0	0/0	11/0	0/0	11/0
Other ABS	37/68	27/6	61/14	45/31	170/119
CDO	26/9	92/8	21/5	10/2	149/24
CMBS	58/87	78/35	38/51	30/36	204/209
RMBS (prime)	3/71	41/45	162/602	15/53	221/771
RMBS (subprime)	28/21	0/27	0/214	1101/400	1129/662
Other RMBS	667/182	109/50	5/105	354/120	1135/457
Total	852/438	369/171	314/991	1589/642	3124/2242

3.11 Moody's Investors Service - US

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	48/0	36/0	80/0	154/0	318/0
CDO	74/7	69/0	115/5	168/10	426/22
CMBS	59/34	50/0	119/81	165/117	393/232
Credit Card	0/0	0/0	0/0	0/0	0/0
RMBS	431/41	539/0	276/50	975/112	2221/203
Total	612/82	694/0	590/136	1462/239	3358/457

3.12 Standard & Poor's - US

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Auto	38/0	101/0	106/0	74/0	319/0
CDO	105/16	76/7	37/4	34/10	252/37
CMBS	59/51	139/33	69/32	61/37	328/153
Credit Card	0/0	0/0	0/0	12/0	12/0
RMBS (prime)	116/162	38/113	32/316	43/100	229/691
RMBS (subprime)	67/79	83/53	24/116	112/88	286/336
Total	385/308	437/206	268/468	336/235	1426/1217

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
40/0	2/0	2/0	28/0	72/0
0/0	5/0	5/0	30/0	40/0
13/3	52/2	52/2	23/2	140/9
0/0	0/0	0/0	0/0	0/0
339/0	476/2	476/2	187/0	1478/4
21/0	3/1	3/1	9/0	36/2
413/3	538/5	538/5	277/2	1766/15

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
0/0	21/0	29/0	18/0	68/0
0/0	0/0	0/0	0/0	0/0
26/70	93/41	20/11	19/88	158/210
22/15	55/12	20/10	22/2	119/39
148/115	93/27	31/72	41/46	313/260
0/93	80/1	282/636	20/47	382/777
20/24	5/2	0/0	2281/160	2306/186
220/83	165/49	61/41	313/349	759/522
436/400	512/132	443/770	2714/692	4105/1994

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
101/0	4/0	48/0	61/2	214/2
132/28	44/16	145/8	98/4	419/56
210/85	139/41	193/100	153/64	695/290
13/0	0/0	0/0	0/0	13/0
1106/515	995/244	1086/637	1010/166	4197/1562
1562/628	1182/301	1472/745	1322/236	5538/1910

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
9/0	88/0	56/0	190/0	343/0
235/13	153/20	166/18	95/7	649/58
63/13	123/49	116/35	138/52	440/149
0/0	0/0	0/0	1/0	1/0
36/244	117/271	130/143	147/277	430/935
51/111	88/248	282/73	91/139	512/571
394/381	569/588	750/269	662/475	2375/1713

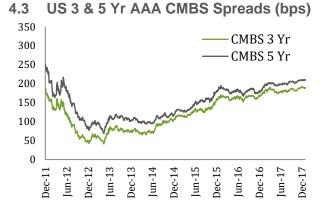
Sources: DBRS, Fitch Ratings, Moody's Investors Service, Standard & Poor's



4 CMBS Spreads

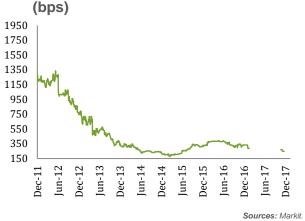
4.1 European 3-5 Yr AAA, AA, A CMBS Spreads (bps)



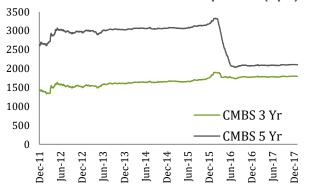


Sources: Trepp LLC

4.2 European 3-5 Yr BBB CMBS Spreads



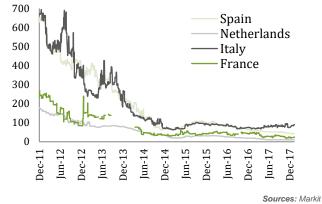




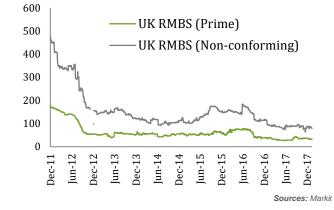
Sources: Trepp LLC

5 RMBS Spreads

5.1 European 3-5 Yr AAA RMBS Spreads (bps)

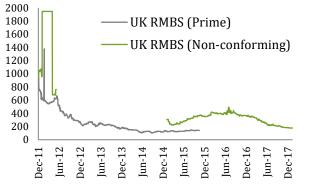






5.2 European 3-5 Yr BBB RMBS Spreads (bps) 2500 Spain 2000 France 1500 Italy 1000 W 500 0 Jun-16 Dec-11 Jun-12 Jun-14 Jun-15 Dec-15 Jun-13 Dec-13 Dec-17 Dec-12 Dec-14 Dec-16 Jun-17 Sources: Markit

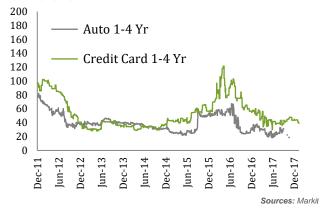




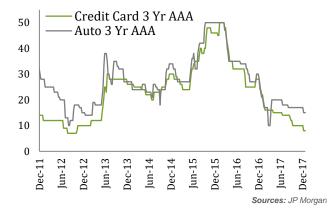
Sources: Markit

6 ABS Spreads

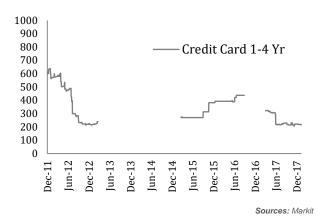
6.1 European 1-4 Yr AAA ABS Spreads (bps)



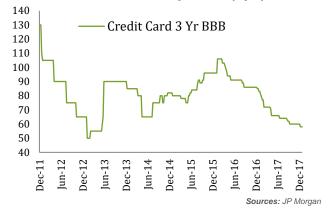
6.3 US 3 Yr AAA ABS Spreads (bps)



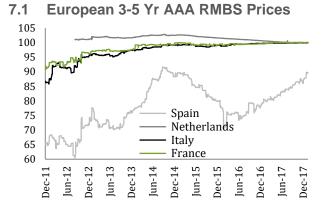
6.2 European 1-4 Yr BBB Spreads (bps)



6.4 US 3 Yr BBB ABS Spreads (bps)

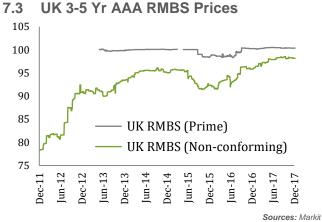


7 RMBS Prices



Sources: Markit

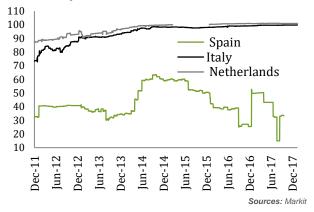
- Spanish AAA RMBS provided: IM Pastor 3, Fondo de Titulizacion Hipotecaria, Class A, Series 3. ISIN# ES0347862007. EURdenominated.
- 2. Italian AAA RMBS provided: Vela Home S.r.I. 3, Class A, Series 3. ISIN# IT0003933998. EUR-denominated.
- French AAA RMBS provided: FCC Loggias Compartment 2003, Class A, Series 1. ISIN# FR0010029231. EUR-denominated.
- Dutch AAA RMBS provided: Storm 2016-I BV, Class A2, Series 2016-I ISIN# XS1336738221. EUR-denominated.



1. UK AAA prime RMBS provided: GREAT HALL MORTGAGES No1

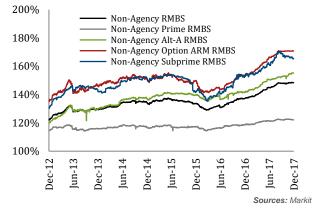
- PLC, Class Aa, Series 2007-02, ISIN# XS0308354504. 2. UK AAA non-conforming RMBS provided: First Flexible No.
- UK AAA non-conforming RMBS provided: First Flexible No. 4 PLC, Class A, Series 4. ISIN# XS0132692384. GBP-denominated.

7.2 European 3 - 5 Yr BBB RMBS Prices



- 1. Spanish BBB RMBS provided: Hipocat 8, Fondo de Titulizacion Activos, Class D, Series 1: ISIN# ES0345784047. EUR-denominated.
- Dutch BBB RMBS provided: Holland Mortgage-Backed Securities (HERMES) X B.V., Class C, Series 10. ISIN# XS0228806831. EURdenominated. From 2016 onwards: Storm 2016-I B.V, Class A2, Series 2016-I, ISIN# XS1336738221.
- Italian BBB RMBS provided: Vela Home S.r.I. 4, Class A2, Series 4, ISIN# IT0004102007. EUR-denominated.

7.4 Markit RMBS iBoxx



8 CMBS and ABS Prices

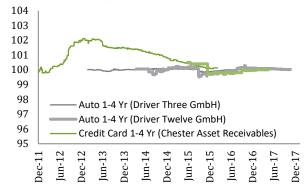




Sources: Markit

 Pan-European AAA CMBS provided: German Residential Funding, Class A, Series 2013-1. ISIN# XS0944452563 (paid off in 2H 16, kept in the chart for reference), EUR-denominated. and Westfield Stratford City Finance PLC, WSCF14 1 Note, GBP-denominated, ISIN# XS1093970751.

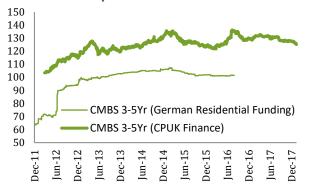




Sources: Markit

- Pan-European AAA Auto ABS provided: Driver Three GmbH, Class A, Series 3. ISIN# XS0270108573. EUR-denominated and Driver Twelve GmbH, DRV12 12 A, Class A, Series 12. EUR denominated, ISIN# XS1055190950.
- Pan-European AAA Credit Card ABS provided: Chester Asset Receivables DGS 2004-1, Class A, Series UK2004-1. ISIN# XS0188611783. GBP-denominated. And Penarth Master Issuer PLC Series 2015-2, Class A1, ISIN# XS1237348823.

8.2 Pan-European 3-5 Yr BBB CMBS Prices



Sources: Markit

 Pan-European BBB CMBS provided: German Residential Funding, Class D, Series 2013-1. ISIN# XS0944454858 (paid off in 2H 16, kept in the chart for reference). EUR-denominated, and CPUK Finance Limited, Class A2, GBP-denominated, ISIN# XS0749350798.

9 Indices Data

9.1 Securitised Index Option-Adjusted Spreads (bps)



9.3 Australia AAA (tranche margin for WAL >1.9 & 2.1 yrs) (bps)



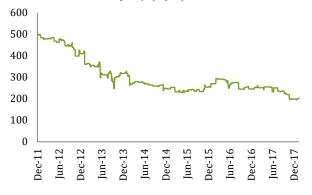


9.2 Barclays PanEurope Fixed and Floating Prices



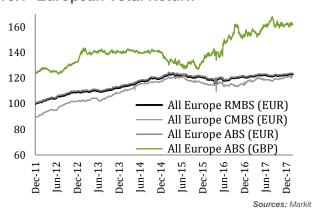
Sources: Barclays Capital

9.4 Australia AA (tranche margin for WAL >4.75 & 5.3 yrs) (bps)



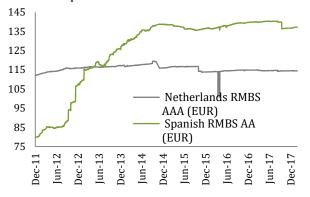
Sources: Macquarie

10 Total Return Benchmark Data



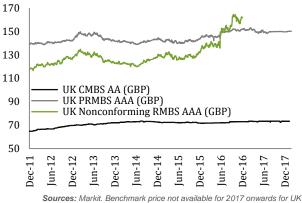
10.1 European Total Return





Sources: Markit

10.2 UK Total Return



nonconforming RMBS AAA

11 Asset-Backed Commercial Paper

€ BILLIONS

11.1 European ABCP Historical Issuance

	Q1	Q2	Q3	Q4	TOTAL
2008	75.0	66.8	73.8	86.2	301.8
2009	46.1	39.9	39.0	32.1	157.2
2010	32.1	35.7	38.8	38.8	145.4
2011	35.4	38.6	56.7	100.0	230.7
2012	117.0	106.1	80.3	53.8	357.2
2013	45.4	50.2	54.0	38.1	187.7
2014	53.9	62.6	68.7	81.8	267.2
2015	82.3	102.9	100.1	114.3	399.5
2016	95.8	120.1	135.8	94.1	445.9
2017	82.3	68.4	67.2	75.0	293.1

11.2 European ABCP Issuance by Nationality of Issuer

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
France	49.6	52.5	52.8	61.0	215.9
Germany	5.0	5.1	4.9	5.7	20.6
Ireland	19.7	4.1	3.6	3.3	30.8
Luxembourg	4.2	4.8	4.3	4.6	17.9
UK	3.8	2.0	1.7	0.5	8.0
Total	82.3	68.4	67.2	75.0	293.1

11.3 European ABCP Issuance by Programme Type

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
Hybrid	0.8	0.9	1.0	1.1	3.7
Single-Seller Conduits					0.0
Multi-Seller Conduits	72.3	66.5	65.6	73.1	277.5
Unspecified	9.3	1.0	0.7	0.8	11.8
Total	82.3	68.4	67.2	75.0	293.1

11.4 ABCP Outstandings by Nationality of Issuer²

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
France	8.3	8.3	9.0	10.0
Germany	1.5	1.5	1.4	1.7
Ireland	5.0	3.2	2.7	3.2
Luxembourg	1.3	1.6	1.4	1.8
UK	1.5	1.2	1.3	0.2
European Total	17.6	15.9	15.7	16.7
US Total	225.5	214.0	207.6	

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
55.8	54.8	55.4	54.0	219.9
3.0	4.8	5.0	6.3	19.1
34.7	57.3	70.3	23.3	185.6
1.6	1.5	2.4	4.4	9.9
0.72	1.81	2.8	6.1	11.4
95.8	120.1	135.8	94.1	445.9

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
1.22	1.09	0.76	0.94	4.0
-	-	-		0.0
82.4	106.7	128.1	85.3	402.6
12.2	12.3	7.0	7.9	39.3
94.6	119.0	135.1	93.2	441.9

2016:Q1	2016:Q2	2016:Q3	2016:Q4
6.5	7.0	6.7	8.3
1.2	1.3	1.2	1.5
9.0	6.5	7.3	7.1
0.6	0.5	0.9	1.4
0.6	-	0.9	1.0
17.9	15.3	16.9	19.3
218.1	190.6	205.3	219.2

Sources: Dealogic, Moody's Investors Service



Asset-Backed Commercial Paper

11.5 European ABCP Outstandings by Programme Type

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Hybrid	0.8	0.6	0.6	0.9
Multi-Seller	15.7	14.8	14.7	15.4
Unspecified	1.1	0.5	0.4	0.4
Total	17.6	15.9	15.7	16.7

2016:Q1	2016:Q2	2016:Q3	2016:Q4
1.0	0.7	0.6	0.7
14.2	16.0	15.4	16.3
2.7	2.3	0.9	2.3
17.9	19.0	16.9	19.3

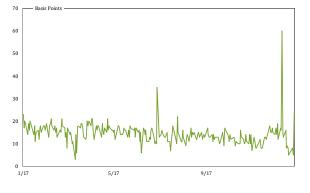
11.6 US ABCP Outstandings by Programme Type³

	2017:Q1	2017:Q2	2017:Q3	2017:Q4
Loan-Backed				
SIVs				
Single-Seller	8.4	7.9	7.6	
Multi-Seller	175.8	167.1	161.8	
Other	41.3	39.0	38.2	
Total	225.5	214.0	207.6	

2016:Q1	2016:Q2	2016:Q3	2016:Q4
-	-	-	
-	-	-	
6.6	7.0	7.3	7.9
176.5	177.6	171.5	176.0
32.7	36.8	37.9	40.4
215.8	221.3	216.7	224.3

Sources: Dealogic, Moody's Investors Service

11.7 US ABCP to AA Non-financial CP Spread



Sources: US Federal Reserve



³ Data not yet available for the US for Q3'17.

12 Global Comparative Data

€ BILLIONS

12.1 Global High Grade Corporate Bond Issuance

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
US	264.8	247.1	190.7	162.3	865.0
Europe	231.4	245.7	285.8	227.8	990.7
Asia	203.8	158.5	117.5	121.9	601.7
Total	700.0	651.4	594.0	512.0	2457.4

12.2 Global Government Bond Issuance

	2017:Q1	2017:Q2	2017:Q3	2017:Q4	TOTAL
US	72.9	65.7	65.5	57.3	261.4
Europe	205.6	151.0	108.6	72.4	537.5
Asia	67.5	43.8	48.4	52.7	212.5
Total	346.1	260.5	222.5	182.4	1011.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
222.5	228.4	186.1	163.0	799.1
210.7	158.6	148.8	108.1	625.9
272.1	244.4	321.7	233.7	1060.5
704.1	628.8	652.7	499.8	2485.5

2016:Q1	2016:Q2	2016:Q3	2016:Q4	TOTAL
100.6	141.6	162.1	82.9	487.2
176.9	145.9	110.6	76.4	509.8
40.1	51.7	34.6	51.1	177.4
317.6	339.2	307.3	210.4	1174.4

Summary of the Methodologies Adopted for this Report

1. Issuance

1.1. – 1.2. European, Australian, and US Historical Issuance

The tables covering historical issuance in Europe and the US are denominated in EUR billions. Historical issuance volumes are calculated by adding all transactions in different asset classes including, among others, asset-backed securities (ABS), collateralised debt obligations/collateralised (CDOs/CLOs), loan obligations commercial mortgage-backed securities (CMBS), and residential mortgage-back securities (RMBS). Please note that numbers may not add due to independent rounding and that historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data sources after the prior period cut-off dates.

Australian data are contributed by Macquarie.

1.3. -1.6. Issuance by Collateral

The European issuance volumes are determined based on the review of several data sources: Bloomberg, JP Morgan, Thomson Reuters, and UniCredit starting from Q1 2009; and Deutsche Bank starting from Q1 2010; Citigroup from Q2 2010; and Dealogic from Q1 2011. In prior quarters our sources were Bloomberg, JP Morgan, Merrill Lynch, RBS, and Thomson Reuters. RMBS, CMBS and ABS are defined as European by having underlying assets located in a European country. European securities included in the calculation are the ones for which there is a specific match in terms of size, name, country of collateral and collateral type from at least two sources. Securities that fail to meet these criteria are excluded. With respect to CDOs/CLOs, securities are designated as European if they are issued in any European currency, regardless of their country of collateral. A substantial percentage of CDOs/CLOs are backed by multi-jurisdictional collateral. Historical CDO/CLO issuance totals have been revised due to periodic updates of the sector.

European ABS issuance includes auto, credit card, leases, loans, receivables and other.

European whole business securitisation ("WBS") are securitisations where cashflows derive from the whole operating revenues generated by an entire business or segmented part of a larger business. Certain WBS deals may be bucketed in the ABS or CMBS class based on deal specifics. As of 2013 Q4, certain public finance initaitves ("PFI") have been moved from ABS to WBS and the category renamed "PFI/WBS".

Placed and retained European issuance collateral are sourced from AFME and/or SIFMA dealer member research, Dealogic, Bloomberg, and Thomson Reuters. Placed issuance includes all tranches placed in the public market, private placements, and preplacements. Partial issuance of a tranche is considered to be placed if half or more by euro amount of the tranche is reported placed. Placed and retained issuance will not retroactively consider securities originally issued retained and then placed in the marketplace, and are estimates.

The US non-agency RMBS, CMBS, ABS and CDO/CLO issuance data sources are Dealogic and Thomson Reuters. Agency mortgage-backed securities (MBS) are defined as securities issued by Fannie Mae, Freddie Mac, and Ginnie Mae and are acquired from company statements. US issuance data are generally based on the sum of securities with US collateral; agency issuance numbers do not include securitisations of existing agency securities. US CDO/CLO data are defined as USD-denominated CDOs/CLOs regardless of the country of collateral.

Australian securitisation volumes are contributed by Macquarie.

The US and Australia issuance data are converted to Euros based on the exchange rate at each quarterend indicated below.

Quarter	USD to EUR	AUD to EUR
Q1 2015	0.9318	0.7088
Q2 2015	0.8979	0.6917
Q3 2015	0.8947	0.6278
Q4 2015	0.9210	0.6711
Q1 2016	0.8787	0.6729
Q2 2016	0.9004	0.6708
Q3 2016	0.8901	0.6813
Q4 2016	0.9506	0.6843
Q1 2017	0.9385	0.7160
Q2 2017	0.8752	0.6727
Q3 2017	0.8464	0.6631
Q4 2017	0.8330	0.6506

These same conversion rates, sourced from Bloomberg, are used on all US issuance and outstanding volume data.

US ABS issuance includes auto, credit card, home equity, student loan, equipment leases, manufactured housing, and other. Historical ABS issuance totals have been revised due to periodic updates of the sector.

US CDO issuance numbers only include USdenominated issuance regardless of the country of collateral and may include European transactions which are denominated in US dollars. Historical CDO issuance totals have been revised due to periodic updates of the sector.

1.7. Issuance by Country of Collateral

The tables covering issuance in the US and Europe are presented in EUR billions. For Europe the information is segmented by country of collateral.

The European issuance is segmented by country to the extent that a determination can be made. Securities with the underlying collateral originating from more than one jurisdiction are categorised as Multinational. Almost all CDOs/CLOs are classified under this Multinational group due to the complexity involved in identifying origin of collateral for each specific tranche. The European issuance volumes are determined based on the review of multiple data sources: Deutsche Bank and Bank of America-Merrill Lynch as of Q1 2010, Bloomberg, JP Morgan, Thomson Reuters and UniCredit starting from Q1 2009; and RBS starting from Q3 2009. In prior quarters the sources were Bloomberg, JP Morgan, Thomson Reuters and Merrill Lynch.

US CDO/CLO data are defined as USD-denominated issues regardless of country of collateral.

Other includes countries with outstanding securities that are too small to be displayed, such as Georgia, Iceland, Ukraine, Swit-zerland, Sweden, and Hungary.

PanEurope has been pulled out of the Multinational parent category and will be retroactively displayed for Euro-pean outstandings.

Multinational includes all deals in which assets originate from a variety of jurisdictions. This includes the majority of CDOs/CLOs denominated in a European currency.

Australian data are contributed by Macquarie.

1.8. Issuance by Collateral Type and Country of Collateral

Issuance information is further specified by country of collateral for European issuance only and by asset class. CDO/CLO classification is the same as above.

1.9. – 1.11. Issuance by Rating

Issuance is presented by credit rating classification (AAA; AA; A; BBB and below; and Not Rated) on a quarterly basis. The credit rating assigned is the lowest of the ratings provided by Fitch Ratings, Moody's Investors Service and/or Standard & Poor's. These ratings are intended to represent

their corresponding equivalent at each agency; e.g., an AAA rating is equal to an Aaa Moody's rating, AA equal to Aa1, etc. Securities are classified 'Not Rated' if none of the credit rating agencies have provided an opinion on the underlying credit quality of a particular tranche, or if the ratings are unknown. US agency MBS issues are generally not rated and therefore grouped separately under Agency MBS.

Australian securitisation data are contributed by Macquarie.

1.12. Issuance by Deal Size

European and US securitisation issuance volume is segmented by transaction size based on data provided by Dealogic. The European data covers all asset classes and EUR-denominated CDOs/CLOs. US non-Agency data includes ABS, non-agency CMBS and RMBS, and USD-denominated CDOs/CLOs. US agency MBS, which includes agency CMBS and RMBS, is shown separately.

All data, except for CDOs/CLOs, are included according to the country of collateral. The number of issues refers to the number of deals, not the number of tranches within each deal.

Australian securitisation issuance volumes are contributed by Macquarie.

2. Balances Outstanding

2.1. – 2.3. Outstandings by Collateral

The outstanding volumes are reported by asset class. Subtotals may not add to totals due to independent rounding and historical or prior period numbers are continuously revised to reflect changes in classification, refined selection methodology, or information submitted to our data sources after the prior period cut-off dates. For Europe, balances outstanding are calculated by the principal balance outstanding on structured product transactions including public, private, rated, unrated, listed and unlisted securities provided by Bloomberg. Balances outstanding are determined by multiplying eligible securities by their pool factor for the quarter and sorted accordingly. Tranches that are non-EURdenominated are converted to EUR by Bloomberg based on the exchange rate at the time of the pricing date (as specified by the lead manager/arranger), or, if missing, the issue date as specified in each offering original security's documentation. Securities included in the calculations, except for CDOs/CLOs, have collateral originated from at least one European country to the extent that a determination can be made. However, for ABS and MBS securities with collateral originated in multiple

countries, or where the origin of the underlying collateral is undefined, the following selection criteria apply: securities are considered eligible as European only if they are denominated in a European currency, as defined below, and the country of issuer (considered to be the country in which the issuing SPV is incorporated) is within Europe. In certain limited cases, the Channel Islands and the Cayman Islands are considered eligible as European jurisdictions for ABS and MBS products if underlying collateral is derived from a variety of jurisdictions and the original currency of issue is EUR only.

For our selection criteria, European currencies include the euro (EUR) and all predecessor currencies, as well as the Turkish lira (TRY), the Danish kroner (DKK), the Swedish krona (SEK), the Swiss franc (CHF), the Polish zloty (PLN), the British pound (GBP), and the Russian ruble (RUB).

Furthermore, our selection criteria consider Europe to include all European Economic Area (EEA) countries and certain non-EEA countries located on the geographic European continent. We have included Turkey, Kazakhstan, Iceland, Georgia and the Russian Federation in these criteria.

European ABS outstanding collateral types include auto loans, credit cards, loans (consumer and student), and other.

For the CDO/CLO sector, only issuance denominated in a European currency (as specified above) is included, regardless of the country of collateral.

Beginning in Q2 2010, the CDO/CLO asset class has been further broken down into the CDO/CLO and SME asset classes. SME securities follow the same criteria application as non-CDOs/CLOs. Revisions during this quarter were retroactively applied and balances outstanding from prior quarters have all been restated accordingly.

The US outstanding calculations are based on information derived from Bloomberg for ABS, nonagency RMBS, and non-agency CMBS; agency balance statements for agency MBS. The following asset classes are segmented: agency MBS, nonagency RMBS, non-agency CMBS, and ABS. The agency MBS figures include both agency RMBS and agency CMBS (i.e., multifamily). US ABS outstanding collateral types include auto loans, credit cards, loans (equipment and student loans), CDOs, and other. CDOs outstanding are included in ABS outstandings and represents dollar-denominated tranches. As of 2013 Q4 home equity and certain other mortgage-related debt has been moved into Non-Agency RMBS.

Australian outstanding figures are contributed by Macquarie. Reverse mortgages are included in RMBS figures, while small balance CMBS are included in CMBS figures.

2.4. Outstandings by Country of Collateral

The European outstanding volumes are segmented by country of collateral based on the above methodology. For our selection criteria, Europe is considered to include all European Economic Area (EEA) countries and certain non-EEA countries located on the geographic European continent (Georgia, Iceland, Turkey, Kazakhstan and the Russian Federation). In certain limited cases, the Channel Islands and the Cayman islands are considered eligible for ABS and MBS products if underlying collateral is derived from a variety of jurisdictions and the original currency of issue is European. CDOs/CLOs issued in a European currency with either collateral from multiple jurisdictions or for which the underlying location of collateral is undefined are categorized under 'Multinational' for the purpose of determining outstanding balances by country. Collateral from multiple European countries is now categorised under 'PanEurope' unless collateral is predominantly (over 90%) from one country.

The US outstandings include both agency and nonagency securities.

2.5. – 2.7. Outstandings by Moody's Rating

The percentage rating distribution for Europe and the US is based on Moody's Investors Service data for balances outstanding, and from Standard and Poor's for Australian data. The data provides current ratings as of the end of the quarter. The data presented are based on original issuance volumes for European, US, and Australian securities, and therefore do not reflect amortised balances. Information on current ratings by outstanding volumes is not currently available. Moody's and Standard and Poor's data have been converted to percentages based on the original issuance size to make it easily comparable with the outstanding volumes provided in this report. Defaulted and unrated issues are excluded from these data.

2.8. - 2.9. Outstandings by Vintage

Outstanding volumes by vintage are determined by year of original pricing date. Restructurings are counted from original pricing date rather than remarketed date.

2.10. Outstandings by Country and Collateral

European outstanding volumes are segmented by country and collateral based on above methodology.

3. Credit Quality – Rating Changes

3.1. – 3.4. Upgrades/Downgrades by Country

These tables present the aggregate number of upgrades and downgrades for securitisation (including CDOs/CLOs) by country of collateral for European deals and in total for US deals. The information is based on data provided by DBRS, Fitch Ratings, Moody's Investors Service and Standard & Poor's. The upgrade number is shown first followed by the downgrade number. The upgrades and downgrades of each of credit rating agency is shown in separate tables and presented as the number of rating changes. Because the credit rating agencies track different securities and apply different credit rating methodologies, these numbers are not directly comparable.

According to Moody's Investors Service, a security is classified as European or American based on if it is monitored out of Moody's office in Europe or the US. More specifically, European securities are classified within a particular country if all of its assets are located within that country.

Fitch's US category may contain non-US issues (e.g., Canada) from the North American continent.

The Multinational category includes CDOs/CLOs and all other cross-jurisdictional securitisations for both Moody's Investors Service and Standard & Poor's. The Fitch Ratings Multinational classification includes cross-jurisdictional CMBS as well as the aggregated sum of rating actions in other countries including Austria, Belgium, Greece, Ireland, Portugal and the Russian Federation. Fitch Ratings assigns CDO issues to the country in which the majority of the underlying assets are located.

DBRS' "ABS Other" category may include student loans, equipment lease and other securities.

3.5. – 3.12. Upgrades/Downgrades by Collateral

These tables present aggregate upgrades and downgrades for securitisation and CDO/CLO issues by securitised product type for Europe and the US. The upgrade number is shown first followed by the downgrade number. The upgrades and downgrades of each agency are shown in separate tables and presented by number rating changes. For Fitch Ratings, the category Other RMBS includes other categories of RMBS transactions such as ALT-A, reverse mortgage, government RMBS, etc. The category 'Other ABS' may include student loans and the whole business securitisations/public finance initiatives (WBS/PFI). For Moody's Investors Service and Standard & Poor's, the total number of European upgrades/downgrades reported by collateral type are not always comparable with the upgrades/downgrades presented by country because there may be securities that experience rating migrations that are backed by collateral originated from a country outside of those specified and will not be captured under the "Multinational" category.

4 - 6 Spreads

4.1. - 4.4. CMBS Spreads

These graphs present credit spread data for European and US AAA and BBB 3-5 Yr CMBS. European 3-5 year AAA & BBB CMBS data are provided by Markit. Composite spread levels are calculated from dealer contributions which have been subjected to multiple cleaning algorithms. Spread levels are equivalent to the discount margin. The discount margin is defined as the effective spread to maturity of a floating rate security after discounting the yield value of a price other than par over the life of the security. The spread calculation is based on data provided by dealer trading desks.

US CMBS 3 and 5 year spreads are provided by Trepp LLC. US CMBS spreads are quoted as fixed rate bonds based on the yield of US treasury bonds with the same average life.

5.1. - 5.4. RMBS Spreads

European RMBS credit spreads are provided for 3-5 year AAA and BBB securities based on data provided by Markit. European credit spreads cover Spain, Netherlands, Italy, Germany and France. UK RMBS spreads are provided for both prime and nonconforming transactions. Markit spread calculations are based on data provided by dealer trading desks.

As of April 2012, Italian AAA has been replaced with Italian AA due to downgrades. Spanish RMBS 3-5 year AAA and BBB spreads have been replaced with AA 3-5 years and BBB 5-8 years respectively due to lack of bonds.

As of November 2012, UK non-conforming AAA has been replaced with non-conforming AA due to downgrades, while BBB UK Prime RMBS are no longer available.

6.1. - 6.4. ABS Spreads

European ABS credit spreads are provided for 1-4 year AAA and BBB securities based on data

provided by Markit based on the same calculations described above.

US spreads reflect levels for AAA autos, AAA credit cards, and BBB credit cards; spreads are fixed against swaps and are provided by JP Morgan. US 3 Yr Auto ABS BBB spreads are not available.

7 - 8 Prices

7.1. - 7.4. RMBS Prices

These graphs represent price data for specific European and UK RMBS selected as benchmarks in the respective jurisdictions. The price calculations are provided by Markit and are based on data provided by dealer trading desks.

8.1. – 8.3. CMBS and ABS Prices

The graphs represent price data for specific pan-European CMBS and ABS selected as benchmarks. The price calculations provided by Markit and are based on data provided by dealer trading desks.

9.1. - 9.5. Indices Data

The first graph presents daily option-adjusted spreads provided by Barclays Capital for Europe from a cross-section of securitised products. The second graph, provided by Barclays Capital, presents daily fixed and floating prices of pan-European deals.

The third and fourth graphs present daily tranche margins, quoted in bps, provided by Macquarie for the Australian AAA and AA securitised market.

The fifth graph present daily prices provided by Markit for the US synthetic CMBS indices.

10 Total Return Benchmark Data

10.1. - 10.3. Total Return Data

These graphs represent historical return composites generated by tracking the aggregate asset value on an underlying portfolio of single name bonds. Data are provided by Markit and are preliminary.

11. Asset-Backed Commercial Paper (ABCP)

11.1. – 11.2. ABCP Historical Issuance; ABCP Issuance by Nationality of Issuer

European issuance is provided by Dealogic, which identifies the issuer's nationality as the country in which the SPV is domiciled. These data do not represent the seller-servicers of the underlying assets or the bank conduits for the ABCP deals. The US data are provided by Moody's Investors Service. The volumes are converted from dollar to euro based on the end-of-quarter exchange rate. 11.3. European ABCP Issuance by Programme Type

ABCP data by programme type is provided by Dealogic. The programme type classifications included are: SIVs, single-seller conduit, multi-seller conduit and 'unspecified'.

Dealogic provides the issuer's nationality as the country in which the SPV is domiciled. This data does not represent the seller-servicers of the underlying assets or the bank conduits for ABCP deals.

11.4. ABCP Outstandings by Nationality of Issuer

The European outstanding is provided by country through the Dealogic database, and the US data are provided by Moody's Investors Service. Dealogic identifies the issuer's nationality as the country in which the SPV is domiciled. The dollar volumes were converted to euro based on the end-of-quarter exchange rate.

US ABCP figures are based on programmes rated by Moody's NY office ABCP Program Index, regardless of market; some euro-denominated ABCP may be included in volume totals.

11.5. – 11.6. ABCP Outstandings by Programme Type

Outstanding quarterly data are provided for Europe and the US by, respectively, Dealogic and Moody's Investor Service. The volumes are converted from dollars to euro based on the end-of-quarter exchange rate. The programme type classifications included are: loan-backed, SIVs, single-seller conduit, multi-seller conduit and 'unspecified'.

Unspecified programme types within the US data contain both arbitrage and hybrid programme types.

11.7. ABCP Spreads

The US ABCP spread information is based on data collected and developed by the Federal Reserve. The spread is defined as the difference between AA ABCP and AA nonfinancial CP.

12. Global Comparative Data

12.1. - 12.2. Global Corporate Bond and Government Bond Issuance

These statistics are provided by Dealogic and present issuance volumes for corporate bonds and government bonds in Asia, the US and Europe. Government bond and corporate bond figures represent gross, not net issuance. In terms of geographical description, Europe represents the European, the Middle East and African (EMEA) countries while Asia includes the Pacific countries and Japan.

Global corporate bond issuance is for investment grade bonds, public placements only. Global government bond issuance includes all agency and non-agency issuances and does not include supranationals.

Annex

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