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# 2010 Q1: European Securitisation Markets Slowly but Steadily Improve

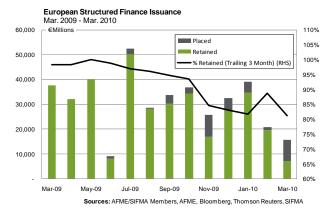
# Market Environment

# **Economic Conditions**

- According to Eurostat, GDP increased by 0.2% in both the euro area and EU 27 during Q1 2010 from the previous quarter. In the fourth quarter of 2009, growth rates were 0.0% and +0.1% respectively. Seasonally adjusted GDP increased by 0.5% in the euro area and 0.3% in the EU 27 in the first quarter 2010, compared to a decrease by -2.2% and -2.3% respectively in the last quarter of 2009.
- Also according to Eurostat, European unemployment worsened slightly, with the euro area and the EU27 reporting a seasonally adjusted unemployment rate of 10.0% and 9.6% respectively in March 2010, compared to 9.9% and 9.4% respectively at end-December 2009, and 9.1% and 8.5% respectively at end-March 2009.

# Term Issuance and Outstanding Volumes

• EUR 75.5 billion securitised products were issued in Europe during Q1 2010, with approximately 18.9% issues publicly or privately placed while the remaining transactions have been retained by the respective originators. In Q1 2009 issuance amounted to EUR 123.2 but publicly placed transactions accounted for only 1.7%.



- Notably, in Q1 2010 a few placements of previously retained issues have been completed. Some fundamental issues continue to prevent a full recovery of the securitisation market, including a reduced investor base, competitive sources of funding, sovereign debt woes, continued overhang of retained issuance and regulatory uncertainty.
- In the United States, the market continues to be dominated by agency issuance, with the FDIC in particular beginning to issue structured products again for the first time since the 1990s. ABS issuance increased slightly in Q1 2010 to the equivalent of EUR 23.9 bil-

lion from EUR 20.0 billion in the fourth quarter of 2009 as the last three TALF auctions were held in Q1.

# Spread and Price Changes

# **Credit Quality**

- Negative rating migrations continued in Q1 2010, albeit at a slightly lower pace in Q1 (Moody's Investor's Service (Moody's) downgraded 195 securities in the EU in Q1, compared to the full-year 2009 average of 1012 ratings per quarter). Standard and Poor's noted that although positive increases in GDP contributed to the slowdown in deterioration of ABS performance, it "has not been sufficiently strong to keep ratings stable in European ABS."
- CMBS, CDOs (in particular SME), and corporate securitisations continued to remain impacted in Q1 2010 by the difficult economic conditions.
- Commercial real estate loans continue to be transferred to special servicing; Standard and Poor's noted that a number of loans were beginning to reach refinance dates, with delinquencies reported from failure to pay at maturity.
- Moody's noted that the wind-down of the UK government schemes would negatively impact the performance of UK RMBS. With GBP 319 billion securitisations needing to be refinanced between 2011 to 2014 from the Special Liquidity Scheme (SLS) and Credit Guarantee scheme (CGS), Moody's reported that it was "highly uncertain" that the RMBS market had the capacity to absorb the funding gap within this period, which would ultimately lead to tighter credit conditions on originators, "weaker asset performance and a deterioration in the financial condition of originators."
- Sovereign downgrades in Europe in Q1 2010, followed by additional downgrades in the beginning of Q2, will most likely negatively impact structured finance transactions with collateral originated from those countries.

# Lending

• According to the April 2010 bank lending survey from the European Central Bank (ECB), credit standards continued to, on net, tighten similar to Q4 2009, although liquidity restraints continue to ease. Demand for bank loans continued to remain depressed, influenced by low M&A activity, reduced fixed investment, and debt issuance in the capital markets.

# **ABCP Trends**

• According to Dealogic, European ABCP issuance increased modestly in Q1 2010 for the first time since end 2008 to EUR 33.3 billion, up 3.7% from EUR 32.1

# MARKET HIGHLIGHTS AND COMMENTARY

billion in the fourth quarter of 2009 but down 27.8% from EUR 46.1 billion in Q1 2009. From its peak of EUR 129.9 billion in Q4 2007, ABCP issuance in Europe has declined 74.4% overall.

• Fitch Ratings (Fitch) noted that European conduits continued to be maintained by their sponsors, as they are still considered a "good source of funding." Although ABCP outstandings were expected to remain constant, Fitch expected ABCP programs to increase issuance during 2010.

# Major Regulatory, Legislative and Policy Initiatives

- In response to the European Regulation on Credit Rating Agencies (Regulation EC No. 1060/2009), Standard and Poor's and Fitch announced intentions in February to include a symbol to denote their structured finance ratings (Standard and Poor's: SF; Fitch Ratings: sf).
- Shortly after the end of Q1, the ECB announced the continuation of minimum credit threshold at BBB-/Baa3 beyond the end of 2010 with the exception of ABS, introducing a graduated valuation haircuts for assets rated BBB+/Baa1 to BBB-/Baa3.
- Also shortly after the end of Q1, the Governing Council of the ECB agreed to proceed with the preparatory work for the establishment of loan-level information for ABS in the Eurosystem collateral framework. The preparatory work is scheduled to be completed by September 2010. Market participants will have 12-month adaptation period from the announcement before being requested to submit loan-level data.
- On 17 March the Bank of England published a consultative paper entitled "Extending the Discount Window Facility eligible collateral and information transparency for asset-backed securitisations". The second part of the paper sought views on the Bank's initiative to require greater transparency in relation to asset-backed securities and covered bonds as part of the eligibility criteria for instruments accepted in its operations, including the extended-collateral long-term repo operations, the Special Liquidity Scheme and the DWF. The proposed initiatives to improve transparency of ABS information included: provision of loan-level data and inclusion of certain stratification tables in investor reports; availability of cash-flow models; availability of legal documentation and summary of structural features; and provision of monthly investor reports (including disclosure of mark-to-market of swaps and account balances and permitted investments). The consultation period ended on 30 April.
- The European Commission launched a public consultation on its proposal for further changes to the Capital Requirements Directive (CRD IV) with deadline for comments on 16 April, same day as the deadline for comments to Basel Committee on Banking Supervi-

sion's Consultative Documents "Strengthening the Resilience of the Banking Sector" and "International Framework for Liquidity Risk Measurement, Standards and Monitoring". The changes proposed in CRD IV include:

- 1. Liquidity standards: Introducing liquidity standards that include a liquidity coverage ratio requirement underpinned by a longer-term structural liquidity ratio.
- 2. Definition of capital: Raising the quality, consistency and transparency of the capital base.
- 3. Leverage ratio: Introducing a leverage ratio as a supplementary measure to the Basel II risk-based framework based on appropriate review and calibration.
- 4. Counterparty credit risk: Strengthening the capital requirements for counterparty credit risk exposures arising from derivatives, repos and securities financing activities.
- 5. Countercyclical measures: A countercyclical capital framework will contribute to a more stable banking system, which will help dampen, instead of amplify, economic and financial shocks.
- 6. Systemically important financial institutions: The EC is consulting on appropriate measures to deal with the risk posed by such institutions.
- 7. Single rule book in banking: The EC is consulting on areas where more stringent requirements might be necessary. In addition, the EC is consulting on the appropriate prudential treatment of real estate lending. This is part of the EC's commitment to create a single rule book in Europe.
- Shortly at the end of Q1, the U.S. SEC published proposals to update and expand the regulation of offerings of ABS and other structured finance transactions in the U.S. in the public and private markets. In its current proposed form, several of the proposed rules would significantly impact non-U.S. issuers seeking to reach the investor base in the U.S. for ABS, MBS, ABCP, and certain covered bonds.

# ISSUANCE

# € BILLIONS<sup>1</sup>

# 1.1. European Historical Issuance

|      | Q1    | Q2    | Q3    | Q4    | TOTAL <sup>2</sup> |
|------|-------|-------|-------|-------|--------------------|
| 2000 | 14.1  | 16.4  | 21.4  | 26.3  | 78.2               |
| 2001 | 20.5  | 43.2  | 22.7  | 66.2  | 152.6              |
| 2002 | 24.3  | 42.6  | 35.7  | 55.1  | 157.7              |
| 2003 | 43.3  | 51.9  | 39.7  | 82.4  | 217.3              |
| 2004 | 55.8  | 59.0  | 53.2  | 75.5  | 243.5              |
| 2005 | 47.8  | 94.4  | 41.5  | 143.3 | 327.0              |
| 2006 | 69.0  | 114.3 | 112.8 | 184.9 | 481.0              |
| 2007 | 128.7 | 152.0 | 98.3  | 74.7  | 453.7              |
| 2008 | 40.0  | 169.6 | 134.1 | 367.6 | 711.3              |
| 2009 | 123.2 | 81.2  | 114.7 | 94.9  | 414.1              |
| 2010 | 75.5  |       |       |       | 75.5               |

|                   | TOTAL <sup>1,2</sup> |  |
|-------------------|----------------------|--|
| 2000              | 1,088.0              |  |
| 2001              | 2,308.4              |  |
| 2002              | 2,592.7              |  |
| 2003              | 2,914.5              |  |
| 2004              | 1,956.6              |  |
| 2005              | 2,650.6              |  |
| 2006              | 2,455.8              |  |
| 2007              | 2,147.1              |  |
| 2008              | 933.6                |  |
| 2009              | 1,358.9              |  |
| 2010 <sup>7</sup> | 250.4                |  |
|                   |                      |  |

1.2. US Historical Issuance

# 1.3. European Issuance by Collateral

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>2</sup> |
|--------------------|---------|---------|---------|---------|--------------------|
| ABS <sup>3</sup>   | 6.5     |         |         |         | 6.5                |
| CDO <sup>4</sup>   | 15.1    |         |         |         | 15.1               |
| CMBS               | 1.7     |         |         |         | 1.7                |
| RMBS               | 51.7    |         |         |         | 51.7               |
| WBS                | 0.6     |         |         |         | 0.6                |
| Total <sup>2</sup> | 75.5    |         |         |         | 75.5               |

### 2009:Q1 2009:Q2 2009:Q3 2009:Q4 TOTAL<sup>2</sup> 17.5 10.4 11.1 13.4 52.5 40.5 16.9 18.6 31.2 107.1 8.9 0.5 6.0 0.0 15.5 56.2 53.4 79.0 50.3 239.0 123.2 81.2 114.7 94.9 414.1

# 1.4. US Issuance by Collateral

|                      | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>1,2</sup> |
|----------------------|---------|---------|---------|---------|----------------------|
| ABS <sup>5</sup>     | 23.9    |         |         |         | 23.9                 |
| CDO <sup>6</sup>     | 0.4     |         |         |         | 0.4                  |
| Agency MBS           | 224.7   |         |         |         | 224.7                |
| Non-Agency CMBS      | 0.8     |         |         |         | 0.8                  |
| Non-Agency RMBS      | 0.6     |         |         |         | 0.6                  |
| Total <sup>1,2</sup> | 250.4   |         |         |         | 250.4                |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>1,2</sup> |
|---------|---------|---------|---------|----------------------|
| 12.3    | 35.7    | 34.9    | 20.0    | 102.9                |
| 0.1     | 1.0     | 0.1     | 0.3     | 1.6                  |
| 259.3   | 419.7   | 310.1   | 241.9   | 1,231.0              |
| 0.0     | 0.2     | 0.1     | 0.9     | 1.2                  |
| 1.7     | 10.3    | 7.3     | 2.9     | 22.2                 |
| 273.5   | 466.7   | 352.6   | 266.0   | 1.358.9              |

Source: Bloomberg, Deutsche Bank, JP Morgan, Bank of America-Merrill Lynch, RBS, Thomson Reuters, Unicredit, AFME, SIFMA

<sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end. <sup>2</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data source after the prior period cut-off dates.

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

<sup>4</sup> European CDO issuance numbers only include euro-denominated issuance regardless of the country of collateral. A substantial percentage of CDOs are backed by multi-jurisdictional collateral. Historical CDO issuance totals have been revised due to periodic updates of the sector. <sup>5</sup> 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

<sup>6</sup> US CDO issuance numbers only include US-denominated 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.
 <sup>7</sup> US 2010 totals are as of March 31, 2010.

# € BILLIONS<sup>1</sup>

# 1.5. Issuance by Country of Collateral

|                             | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>2</sup> |
|-----------------------------|---------|---------|---------|---------|--------------------|
| Belgium                     |         |         |         |         |                    |
| Denmark                     | 1.0     |         |         |         | 1.0                |
| France                      |         |         |         |         |                    |
| Germany                     | 4.6     |         |         |         | 4.6                |
| Greece                      | 1.0     |         |         |         | 1.0                |
| Ireland                     | 2.4     |         |         |         | 2.4                |
| Italy                       | 0.6     |         |         |         | 0.6                |
| Netherlands                 | 50.4    |         |         |         | 50.4               |
| Portugal                    | 1.2     |         |         |         | 1.2                |
| Spain                       | 1.7     |         |         |         | 1.7                |
| UK                          | 11.5    |         |         |         | 11.5               |
| Multinational <sup>7</sup>  | 1.2     |         |         |         | 1.2                |
| European Total <sup>2</sup> | 75.5    |         |         |         | 75.5               |
| US Total <sup>1,2</sup>     | 250.4   |         |         |         | 250.4              |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>2</sup> |
|---------|---------|---------|---------|--------------------|
| 5.3     | 8.2     |         | 13.9    | 27.4               |
|         |         |         |         |                    |
|         | 4.4     | 0.6     | 1.9     | 6.9                |
| 14.6    | 3.9     | 5.2     | 2.8     | 26.5               |
| 9.7     | 5.9     | 6.4     | 0.5     | 22.5               |
| 3.0     | 2.4     | 5.3     | 3.2     | 13.9               |
| 13.9    | 8.8     | 28.7    | 16.4    | 67.9               |
| 12.0    | 21.4    | 0.9     | 9.5     | 43.8               |
| 8.0     | 1.6     | 1.0     | 2.3     | 12.9               |
| 22.7    | 18.6    | 10.1    | 11.0    | 62.4               |
| 16.2    | 2.8     | 47.0    | 22.4    | 88.4               |
| 17.8    | 3.2     | 9.5     | 11.1    | 41.6               |
| 123.2   | 81.2    | 114.7   | 94.9    | 414.1              |
| 273.5   | 466.7   | 352.6   | 266.0   | 1,358.9            |

1.6. Issuance by Collateral Type and Country of Collateral<sup>2</sup> <sup>165</sup> 2010:Q1

|                             | ABS <sup>3</sup> | CDO <sup>4</sup> | CMBS | RMBS | WBS | TOTAL <sup>2</sup> |
|-----------------------------|------------------|------------------|------|------|-----|--------------------|
| Belgium                     |                  |                  |      |      |     |                    |
| Denmark                     |                  | 1.0              |      |      |     | 1.0                |
| France                      |                  |                  |      |      |     |                    |
| Germany                     | 4.2              |                  |      | 0.4  |     | 4.6                |
| Greece                      | 1.0              |                  |      |      |     | 1.0                |
| Ireland                     |                  | 2.4              |      |      |     | 2.4                |
| Italy                       | 0.1              |                  | 0.5  |      |     | 0.6                |
| Netherlands                 |                  | 10.6             |      | 39.7 |     | 50.4               |
| Portugal                    | 1.2              |                  |      |      |     | 1.2                |
| Spain                       |                  | 1.0              |      | 0.7  |     | 1.7                |
| UK                          |                  |                  |      | 10.9 | 0.6 | 11.5               |
| Multinational <sup>7</sup>  |                  | 0.1              | 1.2  |      |     | 1.2                |
| European Total <sup>2</sup> | 6.5              | 15.1             | 1.7  | 51.7 | 0.6 | 75.5               |

|                         |                  |                  |        | NON-   | NON-   |                      |
|-------------------------|------------------|------------------|--------|--------|--------|----------------------|
|                         |                  |                  | AGENCY | AGENCY | AGENCY |                      |
|                         | ABS <sup>5</sup> | CDO <sup>6</sup> | MBS    | CMBS   | RMBS   | TOTAL <sup>1,2</sup> |
| US Total <sup>1,2</sup> | 23.9             | 0.4              | 224.7  | 0.8    | 0.6    | 250.4                |

Source: Bloomberg, Deutsche, JP Morgan, Bank of America-Merrill Lynch, RBS, Thomson Reuters, Unicredit, AFME, SIFMA

<sup>4</sup> European CDO issuance numbers only include euro-denominated issuance regardless of the country of collateral. A substantial percentage of CDOs are backed by multi-jurisdictional collateral. Historical CDO issuance totals have been revised due to periodic updates of the sector.

<sup>5</sup> 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.

<sup>6</sup> US CDO issuance numbers only include US-denominated 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.
<sup>7</sup> Multinational includes all deals, including CDOs, in which assets are originated from a variety of jurisdictions, or from countries whose total amounts are too small to display.

<sup>&</sup>lt;sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end.

<sup>2</sup> Numbers are denomination reduction of the ob-volumes were converted non-based on the or covering rates as a quarks one. 2 Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data source after the prior period cut-off dates.

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

# ISSUANCE

# € BILLIONS1

# 1.7. European Issuance by Rating<sup>3</sup>

|                             | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>2</sup> |
|-----------------------------|---------|---------|---------|---------|--------------------|
| AAA                         | 61.2    |         |         |         | 61.2               |
| AA                          | 1.0     |         |         |         | 1.0                |
| Α                           | 1.5     |         |         |         | 1.5                |
| BBB & Below                 | 0.7     |         |         |         | 0.7                |
| Not Rated                   | 11.2    |         |         |         | 11.2               |
| European Total <sup>2</sup> | 75.5    |         |         |         | 75.5               |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>2</sup> |
|---------|---------|---------|---------|--------------------|
| 68.2    | 66.6    | 92.6    | 75.6    | 303.0              |
| 8.5     | 2.0     | 1.2     | 2.2     | 13.8               |
| 21.5    | 2.7     | 3.0     | 4.1     | 31.3               |
| 4.5     | 2.4     | 3.8     | 3.3     | 14.0               |
| 20.6    | 7.5     | 14.0    | 9.8     | 51.9               |
| 123.2   | 81.2    | 114.7   | 94.9    | 414.1              |

# 1.8. US Issuance by Rating<sup>4</sup>

|                         | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>1,2</sup> |
|-------------------------|---------|---------|---------|---------|----------------------|
| AAA                     | 16.6    |         |         |         | 16.6                 |
| AA                      | 0.5     |         |         |         | 0.5                  |
| Α                       | 2.7     |         |         |         | 2.7                  |
| BBB & Below             | 0.2     |         |         |         | 0.2                  |
| Not Rated               | 5.6     |         |         |         | 5.6                  |
| Agency MBS              | 224.7   |         |         |         | 224.7                |
| US Total <sup>1,2</sup> | 250.4   |         |         |         | 250.4                |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>1,2</sup> |
|---------|---------|---------|---------|----------------------|
| 8.1     | 29.7    | 28.7    | 15.8    | 82.3                 |
| 0.0     |         | 0.0     | 0.3     | 0.3                  |
| 0.0     | 0.4     | 1.0     | 0.8     | 2.2                  |
| 0.6     | 0.0     | 0.0     | 0.2     | 0.8                  |
| 5.4     | 17.0    | 12.8    | 7.1     | 42.2                 |
| 259.3   | 419.7   | 310.1   | 241.9   | 1231.0               |
| 273.5   | 466.7   | 352.6   | 266.0   | 1358.9               |

### Source: Bloomberg, Deutsche, JP Morgan, Bank of America-Merrill Lynch, RBS, Thomson Reuters, Unicredit, AFME, SIFMA

<sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end.

<sup>2</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data

Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to dur data source after the prior period cut-off dates. <sup>3</sup> European CDO issuance numbers only include euro-denominated issuance regardless of the country of collateral. A substantial percentage of CDOs are backed by multi-jurisdictional collateral. Historical CDO issuance numbers only include US-denominated issuance regardless of the country of collateral and may include European transactions which are denominated in US dollars. Historical CDO issuance numbers only include US-denominated 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 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.

# 1.9. Securitisation Issuance by Deal Size<sup>1</sup>

2009:Q4

| INCLUDING RETAINED DEALS <sup>2</sup> |                       |      |             |           |  |
|---------------------------------------|-----------------------|------|-------------|-----------|--|
|                                       | EUROPE                |      | US          |           |  |
|                                       | # of Issues €Billions |      | # of Issues | €Billions |  |
| Less than 0.1 Billion                 | 8%                    | 0%   | 3%          | 0%        |  |
| 0.1-1.0 Billion                       | 47%                   | 9%   | 27%         | 16%       |  |
| More than 1.0 Billion                 | 44%                   | 91%  | 5%          | 12%       |  |
| Agency MBS                            | N/A                   | N/A  | 65%         | 72%       |  |
| Total <sup>3</sup>                    | 100%                  | 100% | 100%        | 100%      |  |

### 2010:01

| EXCLUDING RETAINED DEALS <sup>2</sup> |             |           |             | INCLUDING RETAINED DEALS <sup>2</sup> |             |           |             |           |
|---------------------------------------|-------------|-----------|-------------|---------------------------------------|-------------|-----------|-------------|-----------|
|                                       | EUR         | OPE       | US          |                                       | EUROPE      |           | US          |           |
|                                       | # of Issues | €Billions | # of Issues | €Billions                             | # of Issues | €Billions | # of Issues | €Billions |
| Less than 0.1 Billion                 | 0%          | 0%        | 5%          | 0%                                    | 0%          | 0%        | 5%          | 0%        |
| 0.1-1.0 Billion                       | 50%         | 22%       | 25%         | 15%                                   | 50%         | 22%       | 25%         | 18%       |
| More than 1.0 Billion                 | 50%         | 78%       | 5%          | 10%                                   | 50%         | 78%       | 5%          | 10%       |
| Agency MBS                            | 0%          | 0%        | 64%         | 74%                                   | 0%          | 0%        | 64%         | 71%       |
| Total <sup>3</sup>                    | 100%        | 100%      | 100%        | 100%                                  | 100%        | 100%      | 100%        | 100%      |

Source: Dealogic

<sup>&</sup>lt;sup>1</sup> The European data includes all asset classes – ABS, CMBS, RMBS and euro-denominated CDOs. US data includes ABS, non-agency CMBS and RMBS, and US dollar-denominated CDOs. US agency MBS, which includes agency CMBS and RMBS, is shown separately. All data except for CDOs is included based on the country of collateral.
<sup>2</sup> Dealogic provides data for retained deals based on available market information, sourcing further details from a wide base of syndicate desks wherever possible. Further statistics on retained deals are

added based on intelligence from other market participants. <sup>3</sup> Percentages may not sum to 100% due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submit-

ted to our data source after the prior period cut-off dates.

# € BILLIONS1

# 2.1. European Outstandings by Collateral

|                  | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|------------------|---------|---------|---------|---------|
| ABS <sup>2</sup> | 202.7   |         |         |         |
| CDO <sup>3</sup> | 330.4   |         |         |         |
| CMBS             | 138.8   |         |         |         |
| RMBS             | 1,166.1 |         |         |         |
| WBS <sup>4</sup> | 37.0    |         |         |         |
| Total⁵           | 1,875.0 |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 194.0   | 196.9   | 196.2   | 200.9   |
| 315.1   | 319.9   | 328.9   | 347.6   |
| 148.0   | 146.0   | 143.1   | 140.8   |
| 1,088.6 | 1,108.7 | 1,154.6 | 1,158.8 |
| 37.9    | 38.0    | 37.2    | 36.5    |
| 1,783.6 | 1,809.6 | 1,860.0 | 1,884.7 |

# 2.2. US Outstandings by Collateral

|                      | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|----------------------|---------|---------|---------|---------|
| ABS <sup>6</sup>     | 1,749.5 |         |         |         |
| Agency MBS           | 4,133.1 |         |         |         |
| Non-Agency RMBS      | 1,106.7 |         |         |         |
| Non-Agency CMBS      | 579.5   |         |         |         |
| Total <sup>1,5</sup> | 7,568.9 |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 1,961.2 | 1,805.4 | 1,697.0 | 1,695.0 |
| 3,843.8 | 3,828.4 | 3,763.0 | 3,891.3 |
| 936.5   | 841.0   | 769.8   | 751.3   |
| 623.6   | 581.6   | 550.2   | 554.4   |
| 7,365.0 | 7,056.5 | 6,780.0 | 6,892.0 |

Sources: Bloomberg (US & Europe), Fannie Mae (US), Federal Reserve (US), Freddie Mac (US), Ginnie Mae (US), Loan Performance (US), Thomson Reuters (US), AFME & SIFMA Estimates (US & Europe)

<sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end.
 <sup>2</sup> European ABS outstanding collateral types include auto loans, credit cards, loans (consumer and student), and other.
 <sup>3</sup> Includes euro-denominated CDOs issued after July 2007, regardless of country of collateral, and prior to this, only CDOs confirmed by market participants with known European collateral.

<sup>4</sup> Whole Business Securitisation: a securitisation in which the cashflows derive from the whole operating revenues generated by an entire business or segmented part of a larger business. <sup>5</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data

<sup>6</sup> US ABS outstanding collateral types include auto loans, credit cards, loans (home equity, equipment and student loans), CDOs, and other. CDOs outstanding cannot be broken out within the ABS outstanding collateral type but represents dollar-denominated issues.

# € BILLIONS1

2.3. Outstandings by Country of Collateral<sup>2</sup> 2008 - 2009

|                             | 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|-----------------------------|---------|---------|---------|---------|
| Austria                     | 3.1     | 3.0     | 2.9     | 2.8     |
| Belgium                     | 46.4    | 54.2    | 53.5    | 57.1    |
| Denmark                     | 7.0     | 6.5     | 6.3     | 6.1     |
| Finland                     | 6.8     | 6.4     | 6.0     | 5.7     |
| France                      | 26.1    | 29.7    | 28.6    | 29.6    |
| Germany                     | 85.0    | 83.4    | 88.2    | 90.2    |
| Greece                      | 30.6    | 36.3    | 42.5    | 42.7    |
| Ireland                     | 49.7    | 51.0    | 55.3    | 57.8    |
| Italy                       | 170.6   | 173.5   | 196.4   | 204.5   |
| Netherlands                 | 209.8   | 227.7   | 223.8   | 219.2   |
| Portugal                    | 40.6    | 41.1    | 42.0    | 43.6    |
| Russia                      | 4.6     | 4.8     | 4.5     | 4.1     |
| Spain                       | 242.6   | 250.6   | 247.9   | 249.6   |
| Sweden                      | 0.7     | 0.7     | 0.4     | 0.4     |
| Turkey                      | 2.7     | 2.6     | 2.5     | 2.4     |
| UK                          | 604.8   | 587.1   | 613.3   | 617.6   |
| Other <sup>3</sup>          | 0.5     | 0.5     | 0.5     | 0.5     |
| Multinational               | 251.8   | 250.5   | 245.3   | 250.7   |
| European Total <sup>2</sup> | 1,783.6 | 1,809.6 | 1,860.0 | 1,884.7 |
| US Total <sup>1</sup>       | 7,365.0 | 7,056.5 | 6,780.0 | 6,892.0 |

| 2008:Q1 | 2008:Q2 | 2008:Q3 | 2008:Q4 |
|---------|---------|---------|---------|
| 3.5     | 3.4     | 3.3     | 3.2     |
| 6.9     | 22.0    | 21.8    | 41.4    |
| 7.7     | 7.6     | 7.4     | 7.3     |
|         |         |         |         |
| 24.9    | 27.9    | 27.2    | 26.9    |
| 70.1    | 69.9    | 70.1    | 87.3    |
| 9.2     | 9.9     | 14.1    | 21.2    |
| 18.4    | 33.2    | 32.3    | 48.8    |
| 109.2   | 119.3   | 125.5   | 161.3   |
| 143.2   | 158.3   | 152.2   | 202.5   |
| 26.1    | 27.3    | 29.4    | 35.2    |
| 4.6     | 4.9     | 5.1     | 5.1     |
| 174.6   | 194.4   | 198.4   | 229.2   |
| 0.9     | 0.9     | 0.9     | 0.7     |
| 3.1     | 3.1     | 3.1     | 2.9     |
| 456.5   | 513.3   | 565.1   | 615.5   |
| 0.3     | 0.4     | 0.5     | 8.1     |
| 214.1   | 231.1   | 231.1   | 240.9   |
| 1,273.5 | 1,426.9 | 1,487.5 | 1,737.5 |
| 6,167.9 | 6,341.0 | 6,984.4 | 7,056.3 |

### 2010

|                             | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|-----------------------------|---------|---------|---------|---------|
| Austria                     | 2.7     |         |         |         |
| Belgium                     | 56.5    |         |         |         |
| Denmark                     | 2.6     |         |         |         |
| Finland                     | 5.4     |         |         |         |
| France                      | 28.6    |         |         |         |
| Germany                     | 93.8    |         |         |         |
| Greece                      | 43.4    |         |         |         |
| Ireland                     | 61.1    |         |         |         |
| Italy                       | 198.3   |         |         |         |
| Netherlands                 | 242.3   |         |         |         |
| Portugal                    | 42.4    |         |         |         |
| Russia                      | 3.9     |         |         |         |
| Spain                       | 239.5   |         |         |         |
| Sweden                      | 0.4     |         |         |         |
| Turkey                      | 2.2     |         |         |         |
| UK                          | 608.2   |         |         |         |
| Other <sup>3</sup>          | 0.5     |         |         |         |
| Multinational               | 243.1   |         |         |         |
| European Total <sup>2</sup> | 1875.0  |         |         |         |
| US Total <sup>1</sup>       | 7568.9  |         |         |         |

Sources: Bloomberg (US & Europe), Fannie Mae (US), Federal Reserve (US), Freddie Mac (US), Ginnie Mae (US), Loan Performance (US), Thomson Reuters (US), AFME & SIFMA Estimates (US & Europe)

 <sup>&</sup>lt;sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end.
 <sup>2</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data source after the prior period cut-off dates.
 <sup>3</sup> Other includes countries with outstanding securities that are too small to be displayed, such as Georgia, Iceland, China, Ukraine, Switzerland, and Hungary.

# 2.4. European Outstandings by Moody's Investors Service Ratings<sup>1</sup>

(as a percentage of total Moody's rated securitisations)

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|--------------------|---------|---------|---------|---------|
| Aaa/AAA            | 72.87%  |         |         |         |
| Aa/AA              | 11.00%  |         |         |         |
| A/A                | 6.10%   |         |         |         |
| Baa/BBB            | 5.25%   |         |         |         |
| Ba/BB              | 1.36%   |         |         |         |
| B/B                | 0.84%   |         |         |         |
| Caa/CCC            | 1.15%   |         |         |         |
| Ca/CC              | 0.93%   |         |         |         |
| C/C                | 0.51%   |         |         |         |
| Total <sup>2</sup> | 100.00% |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 80.71%  | 79.57%  | 78.04%  | 75.64%  |
| 6.94%   | 8.11%   | 8.65%   | 9.81%   |
| 4.66%   | 4.40%   | 5.03%   | 5.87%   |
| 3.96%   | 3.52%   | 3.59%   | 3.81%   |
| 1.27%   | 1.36%   | 1.44%   | 1.46%   |
| 0.75%   | 0.76%   | 0.82%   | 0.87%   |
| 0.80%   | 0.92%   | 1.06%   | 1.15%   |
| 0.68%   | 0.92%   | 0.92%   | 0.89%   |
| 0.23%   | 0.43%   | 0.45%   | 0.50%   |
| 100.00% | 100.00% | 100.00% | 100.00% |

# 2.5. US Outstandings by Moody's Investors Service Ratings<sup>1</sup>

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|--------------------|---------|---------|---------|---------|
| Aaa/AAA            | 37.05%  |         |         |         |
| Aa/AA              | 10.54%  |         |         |         |
| A/A                | 7.53%   |         |         |         |
| Baa/BBB            | 7.19%   |         |         |         |
| Ba/BB              | 6.08%   |         |         |         |
| B/B                | 8.60%   |         |         |         |
| Caa/CCC            | 11.50%  |         |         |         |
| Ca/CC              | 5.79%   |         |         |         |
| C/C                | 5.71%   |         |         |         |
| Total <sup>2</sup> | 100.00% |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 46.19%  | 41.16%  | 37.92%  | 37.78%  |
| 7.50%   | 8.11%   | 10.06%  | 10.41%  |
| 6.22%   | 6.87%   | 7.82%   | 7.62%   |
| 8.00%   | 7.57%   | 7.46%   | 7.32%   |
| 5.30%   | 6.71%   | 6.00%   | 6.04%   |
| 7.21%   | 7.95%   | 8.60%   | 8.49%   |
| 10.28%  | 9.93%   | 11.04%  | 11.18%  |
| 4.93%   | 5.89%   | 5.58%   | 5.61%   |
| 4.36%   | 5.81%   | 5.52%   | 5.55%   |
| 100.00% | 100.00% | 100.00% | 100.00% |

Source: Moody's Investors Service

# € BILLIONS

2.6. European Outstandings by Rating<sup>3</sup>

|                    | 2010:Q1 |
|--------------------|---------|
| Aaa/AAA            | 1208.5  |
| Aa/AA              | 176.7   |
| A/A                | 152.2   |
| Baa/BBB            | 94.7    |
| Ba/BB              | 40.3    |
| B/B                | 22.2    |
| Caa/CCC            | 23.6    |
| Ca/CC              | 11.3    |
| C/C                | 5.4     |
| D/D                | 1.9     |
| N/R                | 138.1   |
| Total <sup>2</sup> | 1875.0  |

Source: Bloomberg, AFME, SIFMA

<sup>1</sup> The rating distribution is based on current rating and original issuance size. Unrated and defaulted securities are included.
 <sup>2</sup> Percentages may not add to 100% due to independent rounding.
 <sup>3</sup> Ratings are current as of the end of the quarter. Withdrawn ratings are counted as N/R.

# € BILLIONS

2.7. European Outstandings by Country and Collateral 2009:Q4

| 2009.04            |                  |                  |       |        |                  |        |
|--------------------|------------------|------------------|-------|--------|------------------|--------|
|                    | ABS <sup>1</sup> | CDO <sup>2</sup> | CMBS  | RMBS   | WBS <sup>3</sup> | TOTAL⁴ |
| Austria            | 0.4              |                  | 0.2   | 2.2    |                  | 2.8    |
| Belgium            | 0.2              | 8.3              | 0.1   | 48.5   |                  | 57.1   |
| Denmark            | 1.6              | 4.5              |       |        |                  | 6.1    |
| Finland            |                  |                  |       | 5.7    |                  | 5.7    |
| France             | 14.5             | 0.6              | 3.3   | 11.2   |                  | 29.6   |
| Germany            | 42.6             | 13.0             | 17.2  | 17.3   | 0.1              | 90.2   |
| Greece             | 12.1             | 21.4             |       | 9.3    |                  | 42.7   |
| Ireland            | 0.1              | 2.6              | 1.2   | 53.9   |                  | 57.8   |
| Italy              | 49.7             | 9.9              | 3.6   | 139.1  | 2.2              | 204.5  |
| Netherlands        | 3.8              | 10.5             | 7.5   | 197.4  |                  | 219.2  |
| Portugal           | 4.0              | 3.8              |       | 35.8   |                  | 43.6   |
| Russia             | 0.9              |                  |       | 3.3    |                  | 4.1    |
| Spain              | 19.1             | 61.9             | 0.9   | 167.6  |                  | 249.6  |
| Sweden             | 0.1              |                  |       | 0.3    |                  | 0.4    |
| Turkey             | 2.4              |                  |       |        |                  | 2.4    |
| UK                 | 40.9             | 11.9             | 70.5  | 460.6  | 33.8             | 617.6  |
| Other <sup>7</sup> | 0.1              | 0.2              |       | 0.2    |                  | 0.5    |
| Multinational⁵     | 8.5              | 199.0            | 36.1  | 6.7    | 0.4              | 250.7  |
| European Total⁴    | 200.9            | 347.6            | 140.8 | 1158.8 | 36.5             | 1884.7 |

2010:Q1

|                             | ABS <sup>1</sup> | CDO <sup>2</sup> | CMBS  | RMBS   | WBS <sup>3</sup> | <b>TOTAL</b> <sup>4</sup> |
|-----------------------------|------------------|------------------|-------|--------|------------------|---------------------------|
| Austria                     | 0.3              |                  | 0.2   | 2.2    |                  | 2.7                       |
| Belgium                     | 0.2              | 8.3              | 0.1   | 47.9   |                  | 56.5                      |
| Denmark                     | 1.6              | 1.0              |       |        |                  | 2.6                       |
| Finland                     |                  |                  |       | 5.4    |                  | 5.4                       |
| France                      | 14.1             | 0.6              | 3.3   | 10.6   |                  | 28.6                      |
| Germany                     | 48.2             | 11.9             | 17.1  | 16.5   | 0.1              | 93.8                      |
| Greece                      | 12.0             | 21.4             |       | 10.0   |                  | 43.4                      |
| Ireland                     | 0.1              | 2.6              | 1.1   | 57.3   |                  | 61.1                      |
| Italy                       | 47.9             | 9.8              | 3.9   | 134.5  | 2.2              | 198.3                     |
| Netherlands                 | 3.9              | 10.2             | 7.4   | 220.8  |                  | 242.3                     |
| Portugal                    | 5.2              | 3.7              |       | 33.6   |                  | 42.4                      |
| Russia                      | 0.8              |                  |       | 3.1    |                  | 3.9                       |
| Spain                       | 17.6             | 57.4             | 0.9   | 163.6  |                  | 239.5                     |
| Sweden                      | 0.1              |                  |       | 0.3    |                  | 0.4                       |
| Turkey                      | 2.2              |                  |       |        |                  | 2.2                       |
| UK                          | 40.6             | 11.3             | 68.5  | 453.5  | 34.3             | 608.2                     |
| Other <sup>7</sup>          | 0.0              | 0.2              | 0.0   | 0.2    | 0.0              | 0.5                       |
| Multinational⁵              | 7.8              | 191.9            | 36.3  | 6.7    | 0.4              | 243.1                     |
| European Total <sup>4</sup> | 202.7            | 330.4            | 138.8 | 1166.1 | 37.0             | 1875.0                    |

Sources: Bloomberg , AFME,SIFMA

<sup>&</sup>lt;sup>1</sup> European ABS outstanding collateral types include auto loans, credit card, loans (consumer and student), and other. <sup>2</sup> Includes euro-denominated CDOs issued after July 2007, regardless of country of collateral, and prior to this, only CDOs confirmed by market participants with known European collateral. <sup>3</sup> Whole Business Securitisation: a securitisation in which the cashflows derive from the whole operating revenues generated by an entire business or segmented part of a larger business. <sup>4</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data source after the prior period cut-off dates. <sup>5</sup> Multinational includes all deals in which assets originate from a variety of jurisdictions. This includes the majority of euro-denominated CDOs. <sup>6</sup> Other includes countries with outstanding securities that are too small to be displayed, such as Georgia, Iceland, China, Ukraine, Switzerland, and Hungary.

# **CREDIT QUALITY - RATING CHANGES**

# Upgrades/Downgrades by Country<sup>1</sup>

| 3.1. Fitch Ratings         |         |         |         |         |         |  |  |
|----------------------------|---------|---------|---------|---------|---------|--|--|
|                            | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL   |  |  |
| France                     | 0/0     |         |         |         | 0/0     |  |  |
| Germany                    | 0/78    |         |         |         | 0/78    |  |  |
| Italy                      | 3/10    |         |         |         | 3/10    |  |  |
| Netherlands                | 4/10    |         |         |         | 4/10    |  |  |
| Spain                      | 1/58    |         |         |         | 1/58    |  |  |
| UK                         | 23/70   |         |         |         | 23/70   |  |  |
| Multinational <sup>2</sup> | 7/41    |         |         |         | 7/41    |  |  |
| European Total             | 38/267  |         |         |         | 38/267  |  |  |
| US                         | 55/3455 |         |         |         | 55/3455 |  |  |

| 2009:Q1 | 2009:Q2  | 2009:Q3  | 2009:Q4  | TOTAL     |
|---------|----------|----------|----------|-----------|
| 0/0     | 0/5      | 0/18     | 0/17     | 0/40      |
| 4/65    | 5/28     | 6/65     | 2/246    | 17/404    |
| 1/17    | 11/2     | 1/7      | 1/21     | 14/47     |
| 1/1     | 0/0      | 0/6      | 1/21     | 2/28      |
| 0/97    | 2/58     | 3/17     | 1/97     | 6/269     |
| 4/123   | 5/149    | 2/125    | 17/233   | 28/630    |
| 3/354   | 4/340    | 11/62    | 1/34     | 19/790    |
| 13/657  | 27/582   | 23/300   | 23/669   | 86/2208   |
| 48/4001 | 22/14566 | 20/21258 | 108/4358 | 198/44183 |

# 3.2. Moody's Investors Service

|                            | 2010:Q1  | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL    |
|----------------------------|----------|---------|---------|---------|----------|
| France                     | 0/0      |         |         |         | 0/0      |
| Germany                    | 0/1      |         |         |         | 0/1      |
| Italy                      | 0/2      |         |         |         | 0/2      |
| Netherlands                | 0/15     |         |         |         | 0/15     |
| Spain                      | 0/20     |         |         |         | 0/20     |
| UK                         | 29/58    |         |         |         | 29/58    |
| Multinational <sup>3</sup> | 4/83     |         |         |         | 4/83     |
| European Total             | 33/179   |         |         |         | 33/179   |
| US                         | 115/1104 |         |         |         | 115/1104 |

### 3.3. Standard & Poor's

|                            | 2010:Q1  | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL    |
|----------------------------|----------|---------|---------|---------|----------|
| France                     | 1/1      |         |         |         | 1/1      |
| Germany                    | 2/33     |         |         |         | 2/33     |
| Italy                      | 5/4      |         |         |         | 5/4      |
| Netherlands                | 2/16     |         |         |         | 2/16     |
| Spain                      | 0/46     |         |         |         | 0/46     |
| UK                         | 30/207   |         |         |         | 30/207   |
| Multinational <sup>3</sup> | 92/780   |         |         |         | 92/780   |
| European Total             | 132/1087 |         |         |         | 132/1087 |
| US                         | 28/10610 |         |         |         | 28/10610 |

| 2009:Q1   | 2009:Q2  | 2009:Q3  | 2009:Q4  | TOTAL     |
|-----------|----------|----------|----------|-----------|
| 1/0       | 0/0      | 0/1      | 0/0      | 1/1       |
| 0/5       | 10/36    | 0/4      | 0/14     | 10/59     |
| 1/3       | 0/7      | 1/1      | 0/14     | 2/25      |
| 0/2       | 0/11     | 4/23     | 0/6      | 4/42      |
| 0/19      | 0/26     | 0/16     | 2/73     | 2/134     |
| 5/80      | 0/65     | 1/121    | 1/76     | 7/342     |
| 4/1460    | 7/501    | 30/487   | 12/878   | 53/3326   |
| 11/1569   | 17/646   | 36/653   | 15/1061  | 79/3929   |
| 110/33536 | 96/12115 | 213/6075 | 171/1817 | 590/53543 |

| 2009:Q1 | 2009:Q2  | 2009:Q3   | 2009:Q4 | TOTAL     |
|---------|----------|-----------|---------|-----------|
| 2/10    | 0/10     | 0/1       | 0/7     | 2/28      |
| 1/13    | 1/15     | 0/48      | 0/130   | 2/206     |
| 5/5     | 5/9      | 8/8       | 2/4     | 20/26     |
| 10/18   | 8/1      | 9/1       | 0/12    | 27/32     |
| 11/33   | 4/63     | 0/61      | 0/35    | 15/192    |
| 23/253  | 3/240    | 3/228     | 5/304   | 34/1025   |
| 19/884  | 24/969   | 10/840    | 10/854  | 63/3547   |
| 71/1216 | 45/1307  | 30/1187   | 17/1346 | 163/5056  |
| 83/6206 | 105/7807 | 126/14255 | 40/9671 | 354/37939 |

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

<sup>&</sup>lt;sup>1</sup> Each box contains two numbers: Upgrades followed by Downgrades. Because the three credit rating agencies track different securities and apply slightly different rating criteria, these numbers are not

 <sup>&</sup>lt;sup>2</sup> Fitch's "Multinational" classification includes cross-jurisdictional CMBS issues as well as the aggregated sum of rating actions in other EMEA countries, namely Austria, Belgium, Greece, Ireland, Portugal, and the Russian Federation. Fitch assigns CDO issues to the country in which the majority of the underlying assets are located.
 <sup>3</sup> "Multinational" for Standard & Poor's and Moody's ratings is defined as all issues with collateral located in multiple countries. All CDOs are also included in this category.

# **CREDIT QUALITY - RATING CHANGES**

# Upgrades/Downgrades by Collateral<sup>1</sup> 3.4. Fitch Ratings – Europe

|                        | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL  |
|------------------------|---------|---------|---------|---------|--------|
| Auto                   | 4/7     |         |         |         | 4/7    |
| Credit Card            | 16/0    |         |         |         | 16/0   |
| Other ABS <sup>2</sup> | 2/25    |         |         |         | 2/25   |
| CDO                    | 2/125   |         |         |         | 2/125  |
| CMBS                   | 4/44    |         |         |         | 4/44   |
| RMBS (prime)           | 6/58    |         |         |         | 6/58   |
| RMBS (non-conforming)  | 4/8     |         |         |         | 4/8    |
| Total                  | 38/267  |         |         |         | 38/267 |

### 3.5. Moody's Investors Service - Europe

|                       | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL  |
|-----------------------|---------|---------|---------|---------|--------|
| Auto                  | 0/0     |         |         |         | 0/0    |
| CDO                   | 4/72    |         |         |         | 4/72   |
| CMBS                  | 6/17    |         |         |         | 6/17   |
| Credit Card           | 14/15   |         |         |         | 14/15  |
| RMBS (prime)          | 4/56    |         |         |         | 4/56   |
| RMBS (non-conforming) | 9/35    |         |         |         | 9/35   |
| Total                 | 37/195  |         |         |         | 37/195 |

# 3.6. Standard & Poor's - Europe

|                       | 2010:Q1  | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL    |
|-----------------------|----------|---------|---------|---------|----------|
| Auto                  | 2/11     |         |         |         | 2/11     |
| CDO                   | 89/781   |         |         |         | 89/781   |
| CMBS                  | 3/152    |         |         |         | 3/152    |
| Credit Card           | 16/1     |         |         |         | 16/1     |
| RMBS (prime)          | 10/70    |         |         |         | 10/70    |
| RMBS (non-conforming) | 2/16     |         |         |         | 2/16     |
| Total                 | 122/1031 |         |         |         | 122/1031 |

# 3.7. Fitch Ratings - US

|                         | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL   |
|-------------------------|---------|---------|---------|---------|---------|
| Auto                    | 12/1    |         |         |         | 12/1    |
| Credit Card             | 22/0    |         |         |         | 22/0    |
| Other ABS <sup>2</sup>  | 8/104   |         |         |         | 8/104   |
| CDO                     | 12/849  |         |         |         | 12/849  |
| CMBS                    | 1/274   |         |         |         | 1/274   |
| RMBS (prime)            | 0/528   |         |         |         | 0/528   |
| RMBS (subprime)         | 0/565   |         |         |         | 0/565   |
| Other RMBS <sup>3</sup> | 0/1134  |         |         |         | 0/1134  |
| Total                   | 55/3455 |         |         |         | 55/3455 |

### 3.8. Moody's Investors Service - US

|             | 2010:Q1  | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL    |
|-------------|----------|---------|---------|---------|----------|
| Auto        | 9/0      |         |         |         | 9/0      |
| CDO         | 23/187   |         |         |         | 23/187   |
| CMBS        | 24/721   |         |         |         | 24/721   |
| Credit Card | 59/3     |         |         |         | 59/3     |
| RMBS        | 0/193    |         |         |         | 0/193    |
| Total       | 115/1104 |         |         |         | 115/1104 |

### 3.9. Standard & Poor's - US

|                 | 2010:Q1  | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL    |
|-----------------|----------|---------|---------|---------|----------|
| Auto            | 16/0     |         |         |         | 16/0     |
| CDO             | 12/1927  |         |         |         | 12/1927  |
| CMBS            | 0/1036   |         |         |         | 0/1036   |
| Credit Card     | 0/0      |         |         |         | 0/0      |
| RMBS (prime)    | 0/4360   |         |         |         | 0/4360   |
| RMBS (subprime) | 0/3287   |         |         |         | 0/3287   |
| Total           | 28/10610 |         |         |         | 28/10610 |
| Total           | 20/10010 |         |         |         | 20/10010 |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL   |
|---------|---------|---------|---------|---------|
| 2/7     | 4/0     | 0/8     | 1/1     | 7/16    |
| 0/0     | 0/9     | 0/0     | 0/16    | 0/25    |
| 1/24    | 5/9     | 7/11    | 3/17    | 16/61   |
| 2/425   | 1/332   | 8/54    | 2/332   | 13/1143 |
| 3/111   | 3/142   | 3/90    | 0/232   | 9/575   |
| 2/70    | 12/72   | 0/3     | 7/20    | 21/165  |
| 3/20    | 2/18    | 5/134   | 10/59   | 20/231  |
| 13/657  | 27/582  | 23/300  | 23/677  | 86/2216 |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL   |
|---------|---------|---------|---------|---------|
| 0/0     | 1/7     | 0/25    | 0/10    | 1/42    |
| 4/1453  | 7/487   | 30/477  | 12/832  | 53/3249 |
| 3/13    | 0/88    | 2/82    | 1/71    | 6/254   |
| 0/0     | 0/1     | 0/0     | 0/0     | 0/1     |
| 1/41    | 9/46    | 4/64    | 2/89    | 16/240  |
| 3/73    | 0/27    | 0/85    | 0/78    | 3/263   |
| 11/1580 | 17/656  | 36/733  | 15/1080 | 79/4049 |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL    |
|---------|---------|---------|---------|----------|
| 1/4     | 2/2     | 0/4     | 0/1     | 3/11     |
| 12/923  | 25/1038 | 4/941   | 12/882  | 53/3784  |
| 2/38    | 0/38    | 0/60    | 1/281   | 3/417    |
| 0/0     | 0/19    | 0/0     | 0/2     | 0/21     |
| 23/10   | 12/54   | 16/43   | 3/101   | 54/208   |
| 21/150  | 1/78    | 2/60    | 0/14    | 24/302   |
| 59/1125 | 40/1229 | 22/1108 | 16/1281 | 137/4743 |

| 2009:Q1 | 2009:Q2  | 2009:Q3  | 2009:Q4  | TOTAL     |
|---------|----------|----------|----------|-----------|
| 8/4     | 0/16     | 12/0     | 13/13    | 33/33     |
| 7/0     | 4/7      | 0/4      | 13/1     | 24/12     |
| 17/145  | 8/106    | 5/25     | 3/62     | 33/338    |
| 7/1291  | 8/1020   | 0/157    | 3/635    | 18/3103   |
| 9/392   | 2/274    | 0/1069   | 0/497    | 11/2232   |
| 0/381   | 0/6490   | 0/7896   | 3/1268   | 3/16035   |
| 0/1441  | 0/6056   | 3/2862   | 0/772    | 3/11131   |
| 0/347   | 0/597    | 0/9245   | 73/1111  | 73/11300  |
| 48/4001 | 22/14566 | 20/21258 | 108/4359 | 198/44184 |

| 2009:Q1   | 2009:Q2  | 2009:Q3  | 2009:Q4  | TOTAL     |
|-----------|----------|----------|----------|-----------|
| 21/95     | 7/45     | 13/1     | 31/1     | 72/142    |
| 29/3913   | 3/1875   | 132/2112 | 62/578   | 226/8478  |
| 22/2774   | 39/531   | 15/259   | 8/718    | 84/4282   |
| 1/91      | 28/58    | 7/20     | 10/0     | 46/169    |
| 37/26663  | 19/9606  | 46/3683  | 60/520   | 162/40472 |
| 110/33536 | 96/12115 | 213/6075 | 171/1817 | 590/53543 |

| 2009:Q1 | 2009:Q2  | 2009:Q3   | 2009:Q4 | TOTAL     |
|---------|----------|-----------|---------|-----------|
| 1/49    | 15/24    | 73/14     | 10/0    | 99/87     |
| 8/1463  | 13/2855  | 4/947     | 3/2849  | 28/8114   |
| 16/381  | 2/620    | 12/1471   | 22/1494 | 52/3966   |
| 56/29   | 74/24    | 35/9      | 4/30    | 169/92    |
| 0/1606  | 1/2792   | 2/4723    | 1/2482  | 4/11603   |
| 2/2678  | 0/1492   | 0/7091    | 0/2816  | 2/14077   |
| 83/6206 | 105/7807 | 126/14255 | 40/9671 | 354/37939 |

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

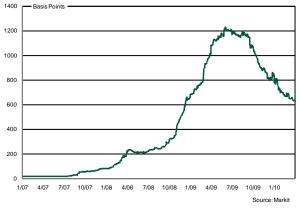
11

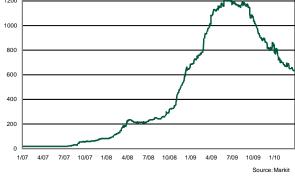
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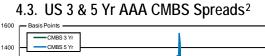
<sup>&</sup>lt;sup>1</sup> Each box contains two numbers: Upgrades followed by Downgrades. Because the three credit rating agencies track different securities and apply slightly different rating criteria, these numbers are not directly comparable. <sup>2</sup> May include student loans, equipment leases, home equity, and other. <sup>3</sup> May include other types of RMBS transactions such as ALT-A, reverse mortgages, government RMBS, etc.

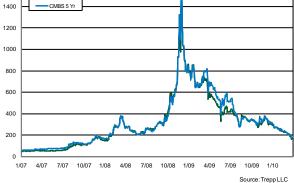
# **CMBS SPREADS**

# 4.1. European 3-5 Yr AAA CMBS Spreads<sup>1</sup>

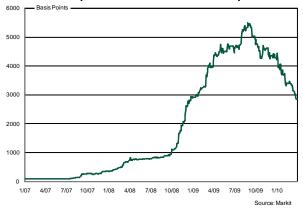




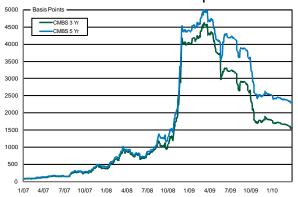




<sup>4.2.</sup> European 3-5 Yr BBB CMBS Spreads<sup>1</sup>



# 4.4. US 3 & 5 Yr BBB CMBS Spreads<sup>2</sup>

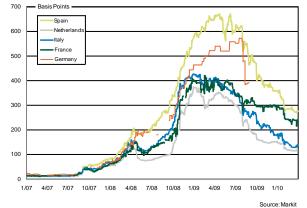


Source: Trepp LLC

<sup>&</sup>lt;sup>1</sup> Markit provides independent composite spread levels which are calculated from dealer contributions and are subject to multiple cleaning algorithms. These levels are equivalent to the 'discount margin' which 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 a security. <sup>2</sup> US CMBS spreads are quoted for fixed rate bonds as the spread to the yield on US Treasury Bonds with the same average life as the CMBS bond.

Note: Gaps in data availability occur in some places and result in linebreaks for those data series.

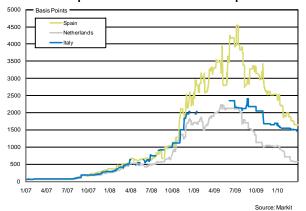
# 5.1. European 3-5 Yr AAA RMBS Spreads<sup>1</sup>



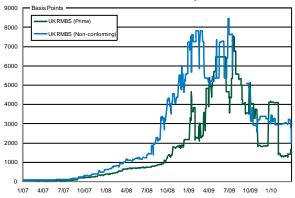
# 5.3. UK 3-5 Yr AAA RMBS Spreads<sup>1</sup>



# 5.2. European 3-5 Yr BBB RMBS Spreads<sup>1,2,3</sup>



# 5.4. UK 3-5 Yr BBB RMBS Spreads<sup>1</sup>



Source: Markit

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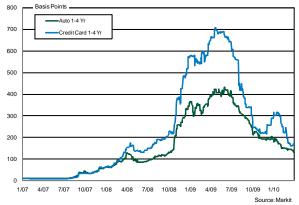
<sup>&</sup>lt;sup>1</sup> Markit provides independent composite spread levels which are calculated from dealer contributions and are subject to multiple cleaning algorithms. These levels are equivalent to the 'discount margin' which is defined as the effective spread to maturity of a floating rate security after discounting the yield value of a price other than par over the life of a security. <sup>2</sup> French 3-5 year BBB RMBS credit spreads are unavailable.

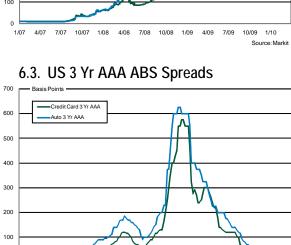
<sup>&</sup>lt;sup>3</sup> German BBB spreads are unavailable due to insufficient information at time of publication.

Note: Gaps in data availability occur in some places and result in linebreaks for those data series.

# **ABS SPREADS**

# 6.1. European 1-4 Yr AAA ABS Spreads<sup>1</sup>





10/08 1/09 4/09 7/09 10/09

1/10

Source: JP Morgan

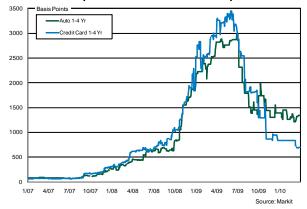
0

1/07 4/07

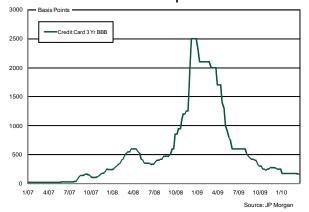
7/07 10/07

1/08 4/08 7/08

# 6.2. European 1-4 Yr BBB ABS Spreads<sup>1</sup>



# 6.4. US 3 Yr BBB ABS Spreads<sup>2</sup>



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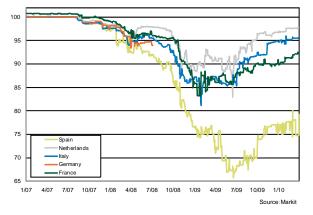
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<sup>&</sup>lt;sup>1</sup> Markit provides independent composite spread levels which are calculated from dealer contributions and are subject to multiple cleaning algorithms. These levels are equivalent to the 'discount margin' which is defined as 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 a security.
<sup>2</sup> US 3 Yr Auto ABS BBB spreads are not available.

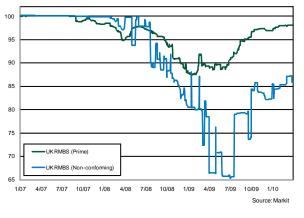
Note: Gaps in data availability occur in some places and result in linebreaks for those data series.

# **RMBS PRICES**

# 7.1. European 3-5 Yr AAA RMBS Prices<sup>1,2</sup>



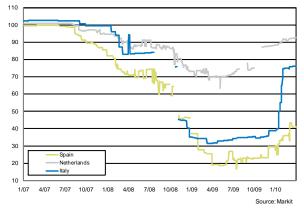
- Spanish AAA RMBS provided: IM Pastor 3, Fondo de Titulizacion Hipote-1. caria, Class A, Series 3. ISIN# ES0347862007. EUR-denominated.
- 2. Dutch AAA RMBS provided: Saecure 5 B.V. Class A, Series 1. ISIN# XS0217032738. EUR-denominated.
- 3. Italian AAA RMBS provided: Vela Home S.r.l. 3, Class A, Series 3. ISIN# IT0003933998. EUR-denominated.
- 4. German AAA RMBS provided: Hallam Finance plc, Class A, Series 1. ISIN# XS0206470865. EUR-denominated.
- 5. French AAA RMBS provided: FCC Loggias Compartment 2003, Class A, Series 1. ISIN# FR0010029231. EUR-denominated.



7.3. UK 3-5 Yr AAA RMBS Prices<sup>1,4</sup>

- UK AAA prime RMBS provided: Permanent Financing (No. 9) PLC, Class 1. 4A, Series 9. ISIN# XS0248264060. EUR-denominated.
- UK AAA subprime RMBS provided: First Flexible No. 4 Plc, Class A, Se-2. ries 1. ISIN# XS0132692384. GBP-denominated

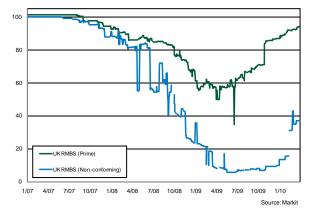
# 7.2. European 3-5 Yr BBB RMBS Prices<sup>1,3</sup>



- Spanish BBB RMBS provided: Hipocat 8, Fondo de Titulizacion Activos, 1. Class D, Series 1: ISIN# ES0345784047. EUR-denominated.
- 2. Dutch BBB RMBS provided: Dutch Mortgage Portfolio Loans IV B.V., Class C, Series 1. ISIN# XS0194097670. EUR-denominated.
- Italian BBB RMBS provided: Intra Mortgage Finance 1 S.r.l., Class 1, 3. Series 1. ISIN# IT0003406003. EUR-denominated.

Note: French and German 3-5 Yr BBB RMBS data are not available.

# 7.4. UK 3-5 Yr BBB RMBS Prices<sup>1</sup>



- UK BBB prime RMBS provided: Permanent Financing (No. 5) PLC, Class 1. C, Series 5. ISIN# XS0197070831. GBP-denominated.
- UK BBB subprime RMBS provided: Leek Finance Number Sixteen Plc, 2. Class Cc, Series 1. ISIN# XS0232829332. EUR-denominated

A composite level of prices for Italy 3-5 year BBB RMBS could not be formed for after 11 August 2008.

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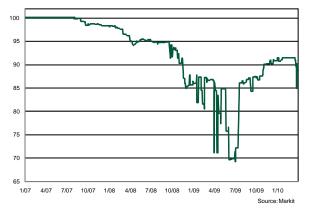
<sup>&</sup>lt;sup>1</sup> Markit prices: Independent composite prices levels are calculated from dealer contributions which have been subject to multiple cleaning algorithms for one sample bond per sector and ratings category where possible. According to the rules we have agreed on previously, the security we have chosen receives the greatest number of contributions for a bond matching the criteria and must receive at least 3 individual contributions. We have included data from the start of 2007 to present. <sup>2</sup> A composite level of prices for Germany 3-5 year AAA RMBS could not be formed after 7 July 2008

<sup>&</sup>lt;sup>4</sup> The jump on 06 January 2008 is due to a new addition to the underlying bond, which was then averaged.

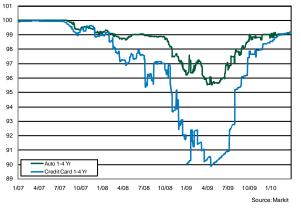
Note: Gaps in data availability occur in some places and result in linebreaks for those data series

# **CMBS AND ABS PRICES**

# 8.1. Pan-European 3-5 Yr AAA CMBS Prices<sup>1</sup>



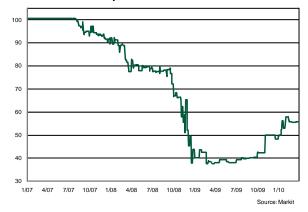
Pan-European AAA CMBS provided: Opera Finance (Lakeside) Plc, Class A, Series 1. ISIN# XS0198555202. GBP-denominated.



8.3. Pan-European 1-4 Yr AAA ABS Prices<sup>1</sup>

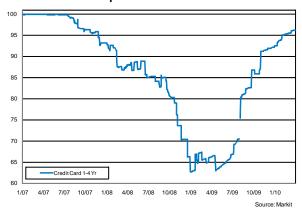
- Pan-European AAA Auto ABS provided: Driver Two GmbH, Class A, Series 1. ISIN# XS0228171673. EUR-denominated.
- Pan-European AAA Credit Card ABS provided: Arran Funding Limited 2005-B, Class A3, Series 2005-B. ISIN# XS0237919195. GBPdenominated.

# 8.2. Pan-European 3-5 Yr BBB CMBS Prices<sup>1</sup>



Pan-European BBB CMBS provided: German Residential Asset Note Distributor Plc, Class D, Series 1. ISIN# XS0260143101. EUR-denominated.

# 8.4. Pan-European 1-4 Yr BBB ABS Prices<sup>1</sup>



 Pan-European BBB Credit Card ABS provided: Arran Funding Limited 2005-B, Class C3, Series 2005-B. ISIN# XS0237922140. GBPdenominated.

Note: Pan-European 1-4 Yr BBB Auto ABS price data is not available.

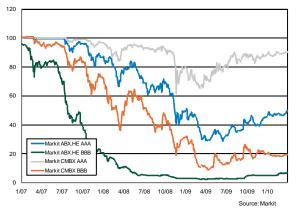
<sup>&</sup>lt;sup>1</sup> Markit prices: Independent composite price levels are calculated from dealer contributions which have been subjected to multiple cleaning algorithms for one sample bond per sector and ratings category where possible. According to the rules we have agreed on previously, the security we have chosen receives the greatest number of contributions for a bond matching the criteria and must receive at least 3 individual contributions. We have included data from start of 2007 to present.

Note: Gaps in data availability occur in some places and result in linebreaks for those data series.

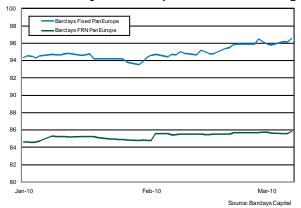
# 9.1. Securitised Index Option Adjusted Spreads



# 9.3. ABX.HE and CMBX Prices<sup>1</sup>



# 9.2. Barclays PanEurope Fixed and Floating Prices

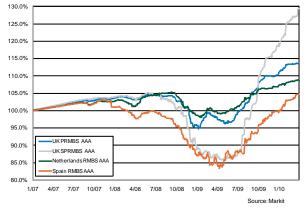


<sup>&</sup>lt;sup>1</sup> Due to pricing convention changes occurring on 20 April 2009, ABX.HE and CMBS spreads are no longer available.

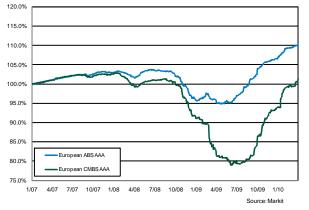
Note: Gaps in data availability occur in some places and result in linebreaks for those data series.

# TOTAL RETURN DATA

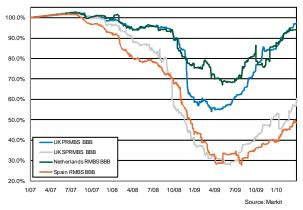
# 10.1. European Total Return RMBS AAA



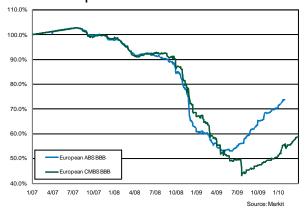
# 10.3. European ABS & CMBS Total Return AAA



# 10.2. European Total Return RMBS BBB



# 10.4. Europe ABS & CMBS Total Return BBB



# AFME / ESF SECURITISATION DATA REPORT Q1 2010

# ASSET-BACKED COMMERCIAL PAPER

# € BILLIONS<sup>1</sup>

# 11.1. European ABCP Historical Issuance

|      | Q1    | Q2    | Q3    | Q4    | TOTAL <sup>2</sup> |
|------|-------|-------|-------|-------|--------------------|
| 2004 | 28.2  | 29.7  | 35.8  | 37.8  | 131.5              |
| 2005 | 44.9  | 52.4  | 51.2  | 46.6  | 195.1              |
| 2006 | 61.6  | 65.8  | 76.1  | 84.7  | 288.2              |
| 2007 | 111.0 | 108.5 | 100.9 | 129.9 | 450.2              |
| 2008 | 75.0  | 66.8  | 73.8  | 86.2  | 301.8              |
| 2009 | 46.1  | 39.9  | 39.0  | 32.1  | 157.2              |
| 2010 | 33.3  |       |       |       | 33.3               |

# 11.2. European ABCP Issuance by Nationality of Issuer<sup>3</sup>

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>2</sup> |  |  |
|--------------------|---------|---------|---------|---------|--------------------|--|--|
| France             | 5.1     |         |         |         | 5.1                |  |  |
| Germany            | 0.0     |         |         |         | 0.0                |  |  |
| Ireland            | 24.1    |         |         |         | 24.1               |  |  |
| Italy              | 0.0     |         |         |         | 0.0                |  |  |
| Luxembourg         | 0.1     |         |         |         | 0.1                |  |  |
| Netherlands        |         |         |         |         |                    |  |  |
| Spain              |         |         |         |         |                    |  |  |
| UK                 | 4.0     |         |         |         | 4.0                |  |  |
| Total <sup>2</sup> | 33.3    |         |         |         | 33.3               |  |  |

# 11.3. European ABCP Issuance by Programme Type

| ····· = ···· = ······ ················ |         |         |         |         |                    |  |
|----------------------------------------|---------|---------|---------|---------|--------------------|--|
|                                        | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>2</sup> |  |
| SIVs                                   |         |         |         |         | 0.0                |  |
| Single-Seller Conduits                 | 0.1     |         |         |         | 0.1                |  |
| Multi-Seller Conduits                  | 21.6    |         |         |         | 21.6               |  |
| Unspecified                            | 11.6    |         |         |         | 11.6               |  |
| Total <sup>2</sup>                     | 33.3    |         |         |         | 33.3               |  |

# 11.4. ABCP Outstandings by Nationality of Issuer

|                               | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|-------------------------------|---------|---------|---------|---------|
| France                        | 1.5     |         |         |         |
| Germany                       |         |         |         |         |
| Ireland                       | 7.4     |         |         |         |
| Italy                         |         |         |         |         |
| Luxembourg                    | 0.1     |         |         |         |
| Netherlands                   |         |         |         |         |
| UK                            | 1.1     |         |         |         |
| European Total <sup>2,4</sup> | 10.0    |         |         |         |
| US Total <sup>1,2</sup>       | 217.9   |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>2</sup> |
|---------|---------|---------|---------|--------------------|
| 6.8     | 5.6     | 5.5     | 6.1     | 24.1               |
|         |         |         |         | 0.0                |
| 31.4    | 26.1    | 25.7    | 22.4    | 105.6              |
|         | 0.0     | 0.0     | 0.0     | 0.0                |
| 0.1     | 0.1     | 0.1     | 0.1     | 0.3                |
|         |         |         |         |                    |
| 0.0     | 0.3     | 0.0     | 0.0     | 0.3                |
| 7.8     | 7.8     | 7.6     | 3.5     | 26.8               |
| 46.1    | 39.9    | 39.0    | 32.1    | 157.2              |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>2</sup> |
|---------|---------|---------|---------|--------------------|
| 0.4     | 0.3     | 1.3     | 0.3     | 2.2                |
| 0.1     | 0.1     | 0.1     | 0.1     | 0.3                |
| 30.7    | 30.5    | 28.6    | 22.9    | 112.6              |
| 14.9    | 9.1     | 9.1     | 8.9     | 42.0               |
| 46.1    | 39.9    | 39.0    | 32.1    | 157.2              |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 1.5     | 2.1     | 1.4     | 1.6     |
|         |         |         |         |
| 7.8     | 6.6     | 9.2     | 6.8     |
| 0.0     | 0.0     | 0.0     | 0.0     |
| 0.0     | 0.0     | 0.0     | 0.0     |
|         |         |         |         |
| 2.3     | 2.3     | 2.6     | 1.2     |
| 11.6    | 11.0    | 13.1    | 9.7     |
| 314.8   | 290.1   | 256.1   | 229.7   |

Source: Dealogic, Moody's Investors Service

<sup>&</sup>lt;sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end. <sup>2</sup> Numbers may not add due to independent rounding. Historical or prior period numbers are revised to reflect changes in classification, refined selection methodology, or information submitted to our data source after the prior period cut-off dates.

<sup>&</sup>lt;sup>3</sup> 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.
<sup>4</sup> Outstanding data is restricted to nationality of the issuer to determine the country of collateral. Dealogic provides the issuer's nationality as the country in which the SPV is domiciled.

# ASSET-BACKED COMMERCIAL PAPER

# € BILLIONS1

# 11.5. European ABCP Outstandings by Programme Type

|               | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|---------------|---------|---------|---------|---------|
| SIVs          |         |         |         |         |
| Single-Seller | 0.1     |         |         |         |
| Multi-Seller  | 7.5     |         |         |         |
| Unspecified   | 2.5     |         |         |         |
| Total         | 10.0    |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 0.1     | 0.1     | 0.1     | 0.0     |
| 0.0     | 0.0     | 0.0     | 0.0     |
| 7.7     | 8.5     | 9.5     | 6.4     |
| 3.8     | 2.4     | 3.5     | 3.2     |
| 11.6    | 11.0    | 13.1    | 9.7     |

# 11.6. US ABCP Outstandings by Programme Type<sup>2</sup>

|                      | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 |
|----------------------|---------|---------|---------|---------|
| Loan-Backed          |         |         |         |         |
| SIVs                 |         |         |         |         |
| Single-Seller        | 18.6    |         |         |         |
| Multi-Seller         | 189.6   |         |         |         |
| Unspecified⁵         | 9.8     |         |         |         |
| Total <sup>1,3</sup> | 217.9   |         |         |         |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 |
|---------|---------|---------|---------|
| 1.3     | 1.1     | 0.8     | 0.7     |
|         |         |         |         |
| 40.8    | 34.5    | 28.3    | 25.4    |
| 248.5   | 235.6   | 215.4   | 194.0   |
| 24.1    | 18.9    | 11.6    | 9.5     |
| 314.8   | 290.1   | 256.1   | 229.7   |

Source: Dealogic, Moody's Investors Service

<sup>1</sup> All volumes are denominated in euro. The US volumes were converted from dollar to euro based on the \$/€ exchange rates as of quarter-end.
 <sup>2</sup> Based on US ABCP programmes rated by Moody's NY office ABCP Program Index, regardless of market. Therefore, some euro-denominated ABCP may be included in this figure.
 <sup>3</sup> Includes arbitrage and hybrid programme types.

# 11.7. ABCP Outstanding Assets Split by Country<sup>1</sup>

| Country             |        |
|---------------------|--------|
| United States       | 25.7%  |
| Global <sup>2</sup> | 16.1%  |
| United Kingdom      | 14.5%  |
| Netherlands         | 11.2%  |
| Germany             | 7.0%   |
| Europe <sup>3</sup> | 5.7%   |
| France              | 4.0%   |
| Others              | 15.7%  |
| Total               | 100.0% |

# 11.8. US ABCP to AA Non-financial CP Spread



Source: Moody's Investors Service

<sup>1</sup> Percentages shown are as of July 2009; all EMEA ABCP programmes.
 <sup>2</sup> Refers to ABCP with assets originating from multiple countries, at least one of which is outside Europe.
 <sup>3</sup> Refers to ABCP with assets originating from multiple European countries.

# **GLOBAL COMPARATIVE DATA**

# € BILLIONS1

# 12.1. Global Securitisation Issuance<sup>2</sup>

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>1</sup> |
|--------------------|---------|---------|---------|---------|--------------------|
| US                 | 117.2   |         |         |         | 117.2              |
| Europe             | 12.9    |         |         |         | 12.9               |
| Asia               | 8.5     |         |         |         | 8.5                |
| Total <sup>1</sup> | 138.6   |         |         |         | 138.6              |

# 12.2. Global Corporate Bond Issuance<sup>3</sup>

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>1</sup> |
|--------------------|---------|---------|---------|---------|--------------------|
| US                 | 70.2    |         |         |         | 70.2               |
| Europe             | 179.0   |         |         |         | 179.0              |
| Asia               | 82.6    |         |         |         | 82.6               |
| Total <sup>1</sup> | 331.8   |         |         |         | 331.8              |

# 12.3. Global Government Bond Issuance<sup>4</sup>

|                    | 2010:Q1 | 2010:Q2 | 2010:Q3 | 2010:Q4 | TOTAL <sup>1</sup> |
|--------------------|---------|---------|---------|---------|--------------------|
| US                 | 243.0   |         |         |         | 243.0              |
| Europe             | 177.4   |         |         |         | 177.4              |
| Asia               | 40.6    |         |         |         | 40.6               |
| Total <sup>1</sup> | 461.0   |         |         |         | 461.0              |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>1</sup> |
|---------|---------|---------|---------|--------------------|
| 36.9    | 104.5   | 102.2   | 82.6    | 326.2              |
| 3.4     | 3.3     | 5.4     | 6.4     | 18.5               |
| 9.2     | 9.1     | 11.2    | 11.8    | 41.3               |
| 49.6    | 116.9   | 118.8   | 100.8   | 386.0              |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>1</sup> |
|---------|---------|---------|---------|--------------------|
| 194.9   | 127.2   | 82.0    | 57.1    | 461.2              |
| 303.0   | 253.8   | 137.8   | 104.6   | 799.1              |
| 85.4    | 98.8    | 92.8    | 80.9    | 357.9              |
| 583.2   | 479.7   | 312.6   | 242.6   | 1618.2             |

| 2009:Q1 | 2009:Q2 | 2009:Q3 | 2009:Q4 | TOTAL <sup>1</sup> |
|---------|---------|---------|---------|--------------------|
| 192.0   | 174.2   | 103.6   | 129.6   | 599.4              |
| 209.3   | 171.0   | 109.9   | 83.0    | 573.2              |
| 39.6    | 33.2    | 29.4    | 38.5    | 140.7              |
| 440.8   | 378.5   | 242.9   | 251.1   | 1313.3             |

Source: Dealogic

<sup>&</sup>lt;sup>1</sup> US and Asian volumes were converted to euro based on the average exchange rate of the currency of issue to euro over each given quarter. Historical or prior period numbers are revised to reflect <sup>2</sup> Global securitisation issuance includes ABS & MBS, both public and private placements, but excludes any retained volumes. Asia numbers include Japan.
 <sup>3</sup> Global government bond issuance includes all agency and non agency issuances and does not include supranationals. Asia numbers include Japan.

# Summary of the Methodologies Adopted for this Report

# 1. Issuance

# 1.1. - 1.2. European and US Historical Issuance (p. 3)

The tables covering historical issuance in Europe and the US are denominated in euro. The historical issuance volume total is calculated by adding all transactions in different asset classes including, among others, asset-backed securities (ABS), collateralised debt obligations (CDOs), commercial mortgage-backed securities (CMBS), and residential mort-gage-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 sub-mitted to our data source after the prior period cut-off dates.

# 1.3. - 1.4. Issuance by Collateral (p. 3)

The European issuance volumes are determined based on the review of four data sources: Bloomberg, JP Morgan, Thomson Reuters, and Unicredit starting from Q1 2009; in prior quarters our sources were Bloomberg, JP Morgan, Merrill Lynch 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. Those securities that fail to meet these criteria are excluded. With respect to CDOs, securities are designated as European if they are issued in euro, regardless of their country of collateral, due to the limited amount of CDOs denominated in European currencies other than the euro. The data is provided by Thomson Reuters.

The US non-agency RMBS, CMBS, ABS and CDO issuance data source is Thomson Reuters. Agency mortgagebacked securities (MBS) are defined as securities issued by Fannie Mae, Freddie Mac, and Ginnie Mae and are acquired from company statements. US issuance data is generally based on the sum of securities with US collateral; agency issuance numbers do not include securitisations of existing agency securities. US CDO data is defined as USDdenominated CDOs regardless of the country of collateral. The US issuance data is converted to euros based on the USD to EUR exchange rate at each quarter-end indicated below.

| Q1 2009 | .7547 |
|---------|-------|
| Q2 2009 | .7126 |
| Q3 2009 | .6831 |
| Q4 2009 | .6978 |
| Q1 2010 | .7402 |

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

# 1.5. Issuance by Country of Collateral (p. 4)

The tables covering issuance in the US and Europe are presented in euro. 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 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 data is defined as USD-denominated issues regardless of country of collateral.

# **1.6.** Issuance by Collateral Type and Country of Collateral (p. 4)

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

# 1.7. - 1.8. Issuance by Rating (p. 5)

Issuance is presented by credit rating classification (AAA; AA; A; BBB and Below; and Not Rated) on a quarterly basis for 2007 and 2008. 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.

# 1.9. Issuance by Deal Size (p. 5)

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. US non-Agency data includes ABS, non-agency CMBS and RMBS, and USD-denominated CDOs. US agency MBS, which includes agency CMBS and RMBS, is shown separately.

All data, except for CDOs, is 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.

Dealogic data for retained deals is based on available information from both European and US dealers' syndicate desks. Further statistics on retained deals are added based on intelligence from other market participants such as regulatory bodies and newswires across Europe.

# 2. Balances Outstanding

# 2.1. – 2.2. Outstandings by Collateral (p. 6)

The outstanding volumes are reported by asset class. Please note that subtotals may not add to totals 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 source 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 derived from the Bloomberg database. Balances outstanding are determined by multiplying eligible securities by their pool factor for the quarter and sorted accordingly. Tranches that are non-EUR-denominated 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 security's original offering documentation. Securities included in the calculations, except for some CDOs, have collateral originating from at least one European country to the extent that a determination can be made. However, for ABS and MBS securities with collateral originating from multiple countries, or where the origin of the underlying collateral is undefined, the following selection criteria will apply: securities will only be considered eligible as European 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 registered) falls 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 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.

For the CDO sector, only EUR-denominated issuance is included, regardless of the country of collateral, due to the limited amount of CDOs denominated in European currencies other than the euro. However, the majority of US-issued, EUR-denominated CDOs with known non-European collateral have been excluded from consideration based on consultation with market participants at the time of the Q3 2007 Data Report production. Subsequent to this time, all EURdenominated CDOs are included irrespective of the country of collateral, in order to maximise the consistency of the deal selection criteria for inclusion.

CDO information does not include the notional amount of transactions referenced to bespoke portfolios of credit default swaps, which are called "single tranche" or "synthetic arbitrage CDOs" which can be found at www.creditflux.com.

The US outstanding calculations are based on information derived from Bloomberg for ABS; agency balance statements for agency MBS; Loan Performance for nonagency RMBS; and Federal Reserve and JP Morgan for nonagency CMBS. Specific assumptions are developed for prepayment and amortisation frequency based on consultations with the US dealer community. The following asset classes are segmented: agency MBS, non-agency RMBS, non-agency CMBS, and ABS. The agency MBS figures include both RMBS and CMBS. The ABS classification for the US includes CDOs, which contains USD-denominated CDOs regardless of the country of collateral. Non-agency CMBS does not include multifamily housing, which is included among outstanding MBS numbers.

# 2.3. Outstandings by Country of Collateral (p. 7)

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. We have included Georgia, Iceland, Turkey, Kazakhstan and the Russian Federation in these criteria. 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 EUR only. CDOs issued with collateral from non-European jurisdictions but issued in euro are included under the country category 'Other' for the purpose of determining outstanding balances by country. CDOs issued in EUR 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. However, the majority of USissued, EUR-denominated CDOs with known non-European collateral have been excluded from consideration based on consultation with market participants at the time of the Q4 2007 first Data Report production. Subsequent to this time, all EUR-denominated CDOs are included irrespective of the country of collateral, in order to maximise the consistency of the deal selection criteria for inclusion.

The US outstandings include both agency and non-agency securities.

# 2.4. - 2.5. Outstandings by Moody's Rating (p. 8)

The percentage rating distribution for Europe and the US is based on Moody's Investors Service data for balances outstanding. The data provides current ratings as of the end of the quarter. The data presented is based on original issuance volumes for European and US securities, and therefore does not reflect amortised balances. Information on current ratings by outstanding volumes is not currently available. Moody's data has 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 this data.

# 2.6. European Outstandings by Rating (p. 8)

The European outstanding principal balances are classified by rating as of the end of the quarter. These figures, unlike those presented in the two previous tables, reflect amortised balances. Rating classes are determined by the lowest current rating from Moody's, Standard and Poor's, and Fitch. Withdrawn ratings and no ratings are counted as N/R for purposes of this total. A minimum of one rating is required for a security to have a rating not listed as N/R.

# 2.7. Outstandings by Country and Collateral (p. 9)

Outstanding volumes are further specified by asset class and, for Europe only, by country of collateral. CDO selection criteria are the same as above.

# 3. Credit Quality – Rating Changes

# 3.1. - 3.3. Upgrades/Downgrades by Country (p. 10)

These tables present the aggregate number of upgrades and downgrades for securitisation (including CDOs) by country of collateral for European deals and in total for US deals. The information is based on data provided by 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.

The Multinational category includes CDOs 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.

# 3.4. - 3.9. Upgrades/Downgrades by Collateral (p. 11)

These tables present aggregate upgrades and downgrades for securitisation and CDO 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 (WBS). 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 (p. 12)

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 is 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. - 5.5. RMBS Spreads (p. 13)

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. The UK RMBS spreads are provided for both prime and non-conforming transactions. Markit spread calculations are based on data provided by dealer trading desks.

US subprime AAA home equity credit spreads are calculated over LIBOR and provided by Barclays Capital.

# 6.1. - 6.4. ABS Spreads (p. 14)

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.

# 7 - 8 Prices

# 7.1. – 7.4. RMBS Prices (p. 15)

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. - 8.4. CMBS and ABS Prices (p. 16)

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

# 9.1. - 9.3. Indices Data (p. 17)

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

The third graph presents daily prices provided by Markit for the benchmark AAA and BBB rated US ABX and CMBX derivative indices. The ABX (ABX.HE) is an index from reference obligations issued by twenty issuers of RMBS that meet the criteria specified in the ABX.HE Index Rules. The majority of the mortgages backing the security underlying must be first-liens. The index calculation is based on the Markit proprietary methodology calculating the contributed prices from dealers. The CMBX follows a similar methodology as an index for credit derivatives of US CMBS issues. The ABX and CMBX are widely followed benchmarks in the securitised marketplace for subprime RMBS and CMBS market sectors, respectively.

# 10 Total Return Benchmark Data

# 10.1. – 10.4. Total Return Data (p. 18)

These graphs represent historical return composites generated by tracking the aggregate asset value on an underlying portfolio of single name bonds. Total Return data is provided by Markit and more information is available at http://www.markit.com/en/products/data/structuredfinance/euro-abs-tra.page.

# 11. Asset-Backed Commercial Paper (ABCP)

# 11.1. – 11.2. ABCP Historical Issuance; ABCP Issuance by Nationality of Issuer (p. 19)

Aggregate issuance data covers the period 2008 through 2009 for Europe and the US. 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 is 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** (p. 19)

ABCP data by programme type is provided by Dealogic and covers the period from 2008 through 2009 for Europe. The programme type classifications included are: SIVs, single-seller conduit, multi-seller conduit and 'unspecified'.

# 11.4. ABCP Outstandings by Nationality of Issuer (p. 19)

Outstanding quarterly data is provided from the first quarter of 2008 through 2009 for Europe and the US. The European outstanding is provided by country through the Dealogic database, and the US data is 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.

# **11.5. – 11.6. ABCP Outstandings by Programme Type** (p. 20)

Outstanding quarterly data is provided from the first quarter of 2008 through 2009 for Europe and the US. The European data is provided by Dealogic and the US data is provided by 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: loanbacked, SIVs, single-seller conduit, multi-seller conduit and 'unspecified'.

# 11.7. ABCP Outstanding Assets Split by Country (p. 20)

Global outstanding ABCP assets percentages are presented by country as of June 2008. The information is provided by Moody's Investors Service. The asset percentage represents the actual amount of assets funded via ABCP and other sources, not including cash and short-term investments. Therefore the asset percentage is not necessarily equal to the ABCP outstanding amount.

# 11.8. ABCP Spreads (p. 20)

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. - 12.3. Global Securitisation Issuance, Global Corporate Bond Issuance, Global Government Bond Issuance (p. 21)

These statistics are provided by Dealogic and present issuance volumes for securitisation, corporate bonds and government bonds in Asia, the US and Europe. Securitisation and government bond figures represent gross issuance; corporate bond issuance is provided on a gross, not net, basis. All types of securitisation are included; CDOs are included based on the region of the currency in which they are denominated. The issuance volumes are provided quarterly for 2007 and 2008. These statistics do not correspond to the issuance numbers provided elsewhere in this report as different sources and selection methodologies are used to determine both the European and US securitisation issuance. In terms of geographical

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description, Europe represents the European, the Middle East and African (EMEA) countries while Asia includes the Pacific countries and Japan.

# 13. Commentary Sources (p. 1)

**Clifford Chance**, "Non-U.S. ABS Issuers Face Significant Implications From the U.S. SEC's Proposed Revisions to the ABS Disclosure and Offering Regime", May 2010, www.cliffordchance.com

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**Fitch Ratings**, "2010 Outlook for Global ABCP", 05 April 2010, <u>www.fitchratings.com</u>

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