



# **Analysing Corporates**

# **Agenda**

- **Introduction to Moody's**
- 2. Overview of Ratings
- 3. Key Adjustments and Financial Ratios
- 4. Example of a Methodology: Building Materials Industry
- 5. How We Asses a Company's Liquidity Profile





# Introduction to Moody's



# Moody's

FY2010:

Staff: c. 4,200; 1,300 analysts

Revenue: \$2,032mm

Operating income: \$773mm<sup>†</sup> Operating margin: 38%<sup>†</sup>

#### **Moody's Investors Service\***

69% of MCO revenue: \$1,405mm

76% of MCO operating income: \$588mm+

- » Structured Finance
- » Corporate Finance
- » Financial Institutions
- » Public, Project and Infrastructure **Finance**

#### Moody's Analytics\*

31% of MCO revenue: \$627mm

24% of MCO operating income: \$185mm+

- » Research, Data and Analytics
- » Risk Management Software
- **Professional Services**
- **Professional Education**
- \* Represents percentage of consolidated financials excluding intersegment royalty and eliminations
- † Excludes restructuring charges and related adjustments



## **About Moody's Corporate Finance Group**

- » Analysts specialized in industry sector within Europe
- » Every Senior Analyst covering a portfolio of between 15 and 25 companies
- » In Europe around 110 staff, including junior analysts and admin staff
- » In Frankfurt office total staff number around 100, thereof Corporate Finance Group 14
- » In Europe, we rate around 500 corporates
- Responsibilities of Lead Analyst: Have the rating right, communicate with issuers, digest information provided by issuers, providing information on issuers to the market/investors etc.



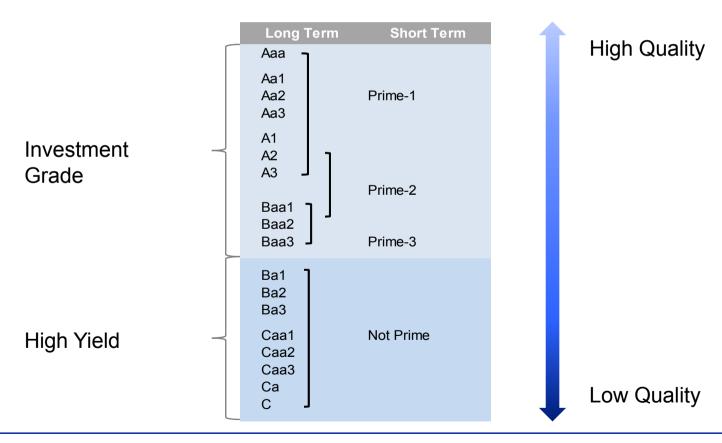


# Overview of Ratings



# Moody's global rating scale

"Moody's long-term obligation ratings are opinions of the relative credit risk of fixed-income obligations with an original maturity of one year or more. They address the possibility that a financial obligation will not be honored as promised. Such ratings reflect both the likelihood of default and any financial loss suffered in the event of default."



#### **End users of ratings**

#### » Investors use our credit ratings and research for **Fixed Income** investment decisions and governance guidelines for **Investors** fixed income portfolios » Issuers use our ratings and associated research to aid market understanding of their creditworthiness and in Issuers the placement of their debt securities » Financial advisors and securities underwriters use our **Financial** ratings to facilitate issuance and investment in fixedincome instruments and in support of capital allocation **Intermediaries** decisions » Regulators use ratings to frame requirements for Regulators investments, capital adequacy, and risk management

# How are ratings assessed...?



Lower business risk activities (more predictable, stable cash flows) can better support weaker debt protection ratios than higher risk activities for the same rating category.

- Core credit protection ratios, on 5-year horizon with stress testing.
- Adjustments for accounting and debt-like obligations.

**RATINGS** 

- Financial parameters mapped to rating levels based on company-specific business risk.
- Ratings are forward looking and take into account current and future business and financial risk often driven by management strategy.



# **Corporate Ratings**

#### **Debt Ratings**

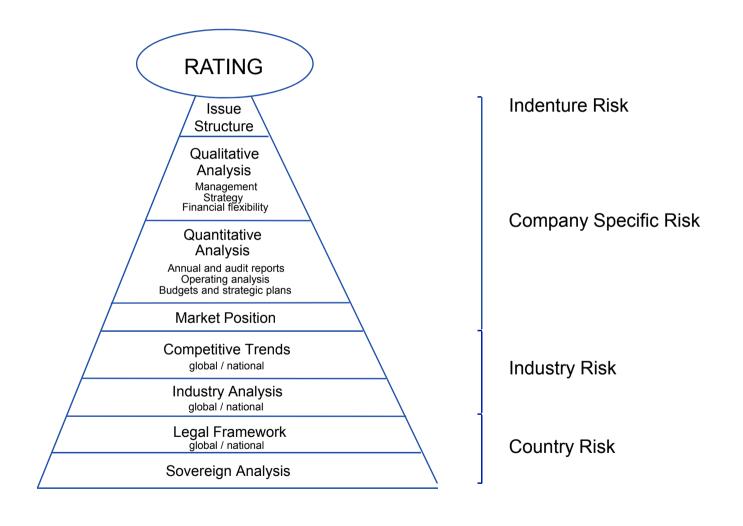
- **Bond Ratings**
- **Preferred Stock Ratings, Hybrid Ratings**
- **Bank loan Ratings**

#### **Issuer Ratings**

- » Issuer Ratings
- » Corporate Family Ratings

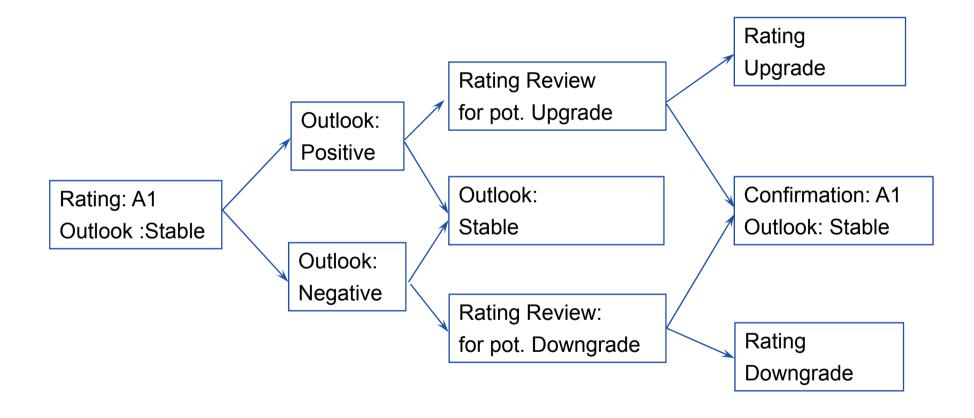
# Indicative Ratings

# **Moody's Rating-Analysis**





# **Rating Status**



# **Typical Ratingcommittee Attendees**

**Analytical Team** 

Lead Analyst

Back Up Analyst

**Associate** 

**RC** Chair

Managing Director or

SVP/SCO (Enhanced)

Other Relevant
Persons as
appropriate

Global/Regional members of broader Analytical Team

Analysts from other lines of business

Specialist – Accounting/ Governance/Operational Risk/Legal Analysts

Senior Management (e.g. Franchise Credits, Senior RC)

**Credit Policy** 

Attendance based on Relevance, Knowledge & Expertise





Key Adjustments and Financial Ratios



# **Can Corporate Accounts be misleading?**

- » Airlines isn't it exciting to use an airline to fly from a to b, and this airline does not have any fixed assets, such as the aircraft you are using, on its balance sheet...?
- » Retail isn't it exciting to go shopping at a retailer although the balance sheet of the retailer does not report any real estate...?
- » Trading isn't it exciting to do business with a trading company which does not report or report only a small amount of trade receivables...?



## Reasons for adjusting accounts

#### Improve comparability

- » US GAAP accounts ≠ IFRS accounts
  - Convergence programme still has some way to go
- » Also, different treatments are permitted under IFRS for the same transactions in certain areas
  - Accountants couldn't agree on a single method

#### Better reflect underlying economic reality

- » We need a full and accurate picture of financial performance and position
  - Implies accounts are deficient in certain respects

#### → Three biggest problem areas:

- Lease accounting
- Pensions accounting
- No global standard for the same transactions in certain areas (i.e. Treatment of R&D costs)



# **Moody's Major Adjustments**

- Pensions unfunded vs. Underfunded example ThyssenKrupp
- Operating Lease NPV vs. Multiple of annual expense
- Capitalised Interest
- Capitalised Development Costs example carmakers
- Securitisation risk transfer example ArcelorMittal
- Cash Flow Statement align Funds from Operations
- » Put Options
- Third party financial guarantees etc.etc.

#### **Summary: What is Debt?**

On Balance Sheet Debt, i.e. Borrowings

We tend to focus on gross debt (i.e. excluding cash) but give some credit for cash balances in excess of working cash

**BUT ALSO** 

- » Leases
- Pension obligations
- Different rules for different GAAPs
- » Some other off-balance sheet obligations
  - Environmental
  - Legal
  - Put Options
  - Guarantees

Not as simple as it may seem, so we make Adjustments!



# An example: Debt Adjustments for HeidelbergCement

#### HeidelbergCement AG

Moody's Co. Num: 600013170

| Debt Capitalization                 | 12.31.06   | 12.31.07   | 12.31.08   | 12.31.09   | 12.31.10   |  |
|-------------------------------------|------------|------------|------------|------------|------------|--|
|                                     | Ba1/RUR    | Baa3/NEG   | Ba3/NEG    | Ba3/POS    | Ba2/POS    |  |
|                                     | Outst. Bal |  |
| Short Term Debt                     |            |            |            |            |            |  |
| Short Term Debt                     | 393        | 914        | 310        | 264        | 412        |  |
| Current Portion of Long-Term Debt   | 1.110      | 1.404      | 1.455      | 902        | 413        |  |
| Total Short Term Debt               | 1.503      | 2.317      | 1.766      | 1.166      | 825        |  |
| Long Term Debt                      |            |            |            |            |            |  |
| Secured Debt                        |            | 11         | 8          | 103        | 125        |  |
| Senior Debt                         | 2.553      | 14.245     | 12.021     | 8.673      | 8.242      |  |
| Subordinated Debt                   |            |            |            |            |            |  |
| Financial Liabilities - Non-Current | 475        | 376        | 279        | 273        | 257        |  |
| Capitalized Leases                  | 0          | 21         | 15         | 12         | 16         |  |
| Gross Long Term Debt                | 3.028      | 14.653     | 12.323     | 9.061      | 8.640      |  |
| Less: Current Maturities            | -1.110     | -1.404     | -1.455     | -902       | -413       |  |
| Net Long-Term Debt                  | 1.918      | 13.249     | 10.868     | 8.159      | 8.227      |  |
| Total Unadjusted Debt               | 3.421      | 15.567     | 12.633     | 9.326      | 9.052      |  |
| Standard and Analyst Adjustments    |            |            |            |            |            |  |
| Pension Adjustments                 | 321        | 212        | 462        | 637        | 587        |  |
| Operating Lease Adjustments         | 472        | 673        | 978        | 838        | 776        |  |
| Hybrid Securities Adjustments       |            |            |            |            |            |  |
| Securitization Adjustments          |            |            |            |            |            |  |
| Analyst Adjustments                 | 108        | 157        | 273        | -25        | -55        |  |
| Total Adjusted Debt                 | 4.321      | 16.608     | 14.345     | 10.775     | 10.359     |  |

Source: Moody's Financial Metrics



#### Which ratios do we focus on and why?

Operating Performance and Profitability: Business model sustainability

- » Margins –earnings divided by sales
- » Returns –earnings divided by something

Leverage: Financial structure sustainability

- » Debt to EBITDA (largely used but with some limitations)
- » Cash flow divided by debt

Interest Coverage: Capability to sustain ongoing payments

- » Cash flow or earnings divided by Interest Capitalisation
- » Debt divided by Capital (Debt plus Equity)
- » Debt divided by Equity

All ratios are adjusted according to our methodology



## Leverage: Which Ratios do we Look at?

#### Debt to EBITDA

- » EBITDA is not a good proxy for Cash
- » Largely used in financial documentation

#### Cash Flows to Debt

- » Cash Flow from Operations (CFO) = Funds From operation +/-Working Capital Changes
- » Retained Cash Flow (RCF) = FFO (before working capital) –Dividends
- » Free Cash Flow (FCF) = CFO –Dividends –Capex



# Example of a Methodology: Building Materials Industry



# **Moody's Key Rating Factors**

Moody's focuses on the following five key rating factors according to the Building Materials Methodology **Product Line Diversity Geographic Diversity** 1. BUSINESS PROFILE Risk **Market Position** Business Revenues 2. SIZE AND STABILITY **Revenue Volatility Operating Margin** 3. COST POSITION AND **Operating Margin Volatility PROFITABILITY** Return on Assets **Debt to Capitalisation** 4. FINANCIAL MANAGEMENT Fin. Risk **STRATEGY** Debt to EBITDA **EBIT** to Interest RCF/Net debt 5. FINANCIAL STRENGTH FCF/Debt



# Rating Methodology Grid Outcome - HeidelbergCement

| Moody's Rating Methodology: Building Materials |                                   |            |   |                     |   |        |   |  |
|--|-----------------------------------|------------|---|---------------------|---|--------|---|--|
| Select company                                 | HeidelbergCement AG               |            |   |                     |   |        |   |  |
|  | FY Ending December 31, 2010       |            |   |                     |   |        |   |  |
| Current Rating                                 | Ba2                               |            |   |                     |   |        |   |  |
| Outlook  | Positive                          |            |   |                     |   |        |   |  |
| Indicated Rating                               | Baa2                              |            |   |                     |   |        |   |  |
| Gap  | -3                                |            |   |                     |   |        |   |  |
|  |                                   | Sub Factor |   | Indicated<br>Rating |   | Weight |   |  |
| BUSINESS PROFILE                               | Business Profile Assessment       | 7.5        | > | Aaa-Aa              | х | 20.0%  | = |  |
| SIZE AND STABILITY                             | Revenues (USD billion)            | \$15.61    | > | Aaa-Aa              | Х | 10.0%  | = |  |
|  | Revenue Volatility                | 19.80%     | > | В                   | х | 10.0%  | = |  |
| COST POSITION AND PROFITABILITY                | Operating Margin (5-year Average) | 14.69%     | > | Baa                 | х | 6.7%   | = |  |
|  | Operating Margin Volatility       | 16.48%     | > | Baa                 | х | 6.7%   | = |  |

EBIT / Avg. Assets (5-year Average)

EBIT / Interest Expense (5-year Average)

Debt / Book Capitalization

Debt / EBITDA (5-year Average)

RCF / Net Debt (5-year Average)

FCF / Debt (5-year Average)

7.00%

43.02%

4.68x

2.24x

12.55%

3.98%

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Source: Moody's Financial Metrics

MANAGEMENT STRATEGY

FINANCIAL STRENGTH



Baa2

6.7%

6.7%

6.7%

6.7%

x 10.0%

x 10.0%

# **Industry Challenges and Rating Drivers (1/2)**

#### » Building Materials industry is cyclical

Cycles are usually limited to regional markets

#### » Building Materials have a low value-to-weight ratio

No competition on a global basis

#### » Flexibility in capital expenditure requirements

In a downturn lower cash inflows can be offset by lower Capex cash outflows

#### » GDP growth is a primary driver of organic revenue growth

Above average growth only with acquisitions



# Industry Challenges and Rating Drivers (2/2)

#### » High barriers to entry

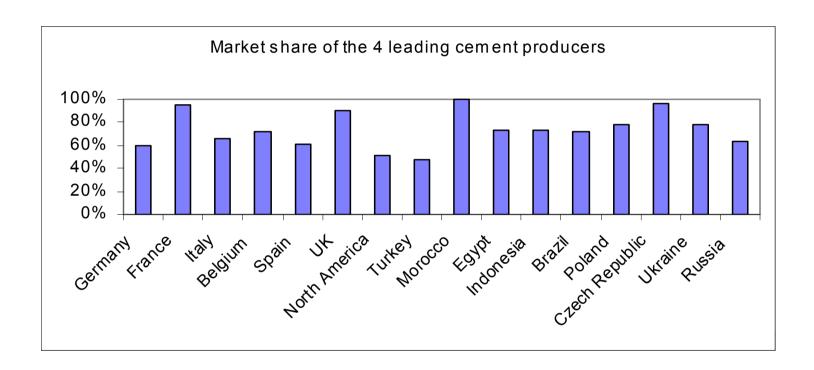
- Access to limited resources prevents the entrance of new competitors
- High capex requirements to build new plants

#### » Production is energy-intensive

- Hedging and alternative fuels can only partially offset substantial increases in energy prices
- » Risk of large debt-funded acquisitions and pressure from shareholders to distribute cash balances
- » Cost leadership, strong local position, and geographic diversification are key for the success in the industry



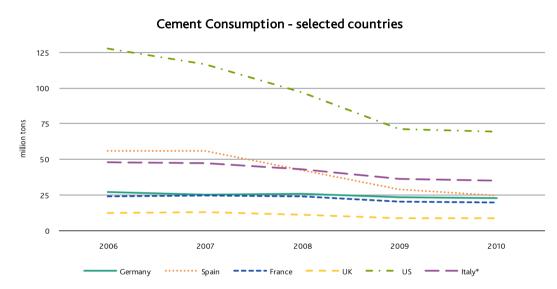
# **Cement Industry is already Highly Concentrated**



- » Growth is expected to be achieved from the dynamic development in emerging markets and further vertical integration
- » Aggregates markets are much more fragmented and provide opportunities for expansion



#### **Industry Trends - Volumes bottomed out in Q3 2010**



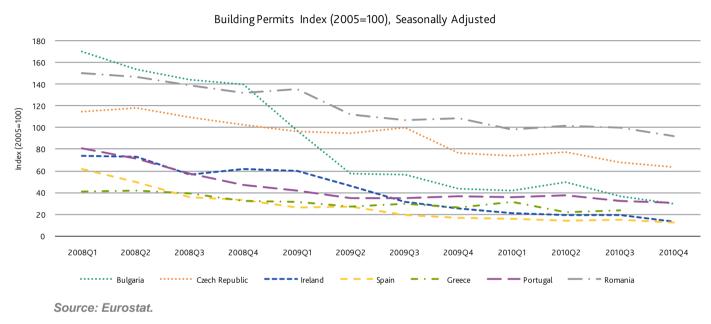
Source: USGS, Oficemen, bdzement, MPA, Infociments, Aitec, (\*Italy cement production).

- » After three years of depressed construction activity first positive signs in Q4 '10
- » Q1 '11 sales growth should benefit from weak comparatives
- Oradual volume recovery expected for 2011 supported by residential construction and stable renovation demand
- » Commercial construction remains subdued

Modest volume improvements expected for 2011, but recovery will be uneven across EMEA

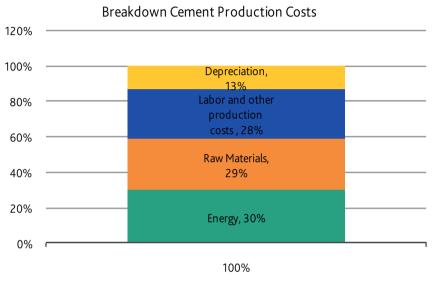


#### **Weak Demand in PIIGS and some CEE Countries**



- Demand likely to remain depressed in Greece, Spain, Ireland and Portugal as well as in some CEE countries such as Bulgaria, Romania
- » However, given very low levels of volumes no significant further deterioration expected
- » Severe price erosion in Italy and CEE during downturn → companies will be challenged to recoup some of the declines despite a sluggish recovery in volumes

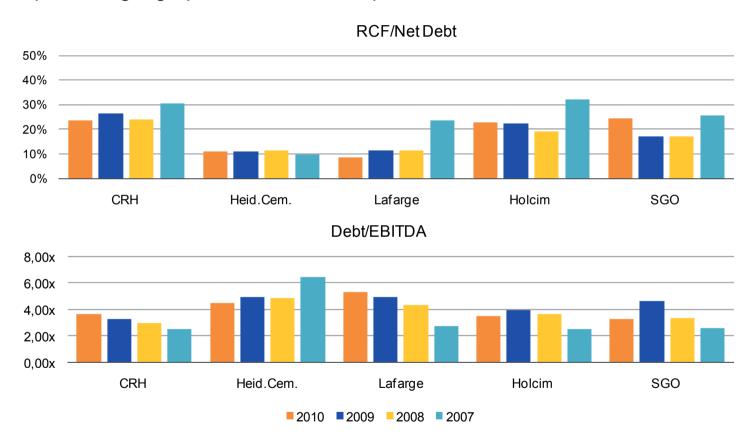
## **Input Cost Inflation tempers Margin Improvements**



- Source: Lafarge Annual Report 2010.
- » Issuers have hedged up to 50-60% of their overall energy exposure for 2011
- » Ability to pass on rising input costs to end-customers through price increases depends on strength of recovery and industry's discipline
- » Enforcement of price increases most difficult in markets with significant overcapacities (India, MENA) and fragmented, depressed markets (Italy, some Eastern European countries)

# **Peer Comparison – Building Materials**

» Peer analysis focuses on comparison of business profile, product portfolio, market position, geographic diversification, political environment







# How We Assess a Company's Liquidity Profile



# **Liquidity – few comments**

#### Liquidity is crucial in today's environment

- » Difference between life and death
- » Liquidity crisis can emerge very quickly

#### **Market liquidity**

- 2001/2003 and 2007/2008/2009 crisis
- Re-pricing of risk may be costly even fatal for most leveraged issuers
- » Consequences on mostly cyclical issuers
- Default increases lead to lack of confidence in the markets

#### Issuer's performance

» Covenant breach

#### **Issuer specific rather than sector**



# What is important to survive a liquidity crisis

#### Degree of preparation by management

- » Robust Contingency Plan
- » Degree of nimbleness in crisis management

#### Conviction by lenders that entity is viable

- » Proven business model
- Soundness of operations
- Capacity to control cash-burn
- Manageable level of leverage
- ... And ability to raise cash
- Committed bank facilities that can be drawn
- Cushion under covenants
- » Valuable assets that can be pledged/sold



# **The LRA - Liquidity Risk Assessment**

#### Sources

| Internal  | External  | Assets / Back Door  |
|---|---|---|
| <ul> <li>Liquid assets</li> <li>Cash, marketable securities, accounts receivable</li> <li>Repatriation</li> <li>Tax implications</li> <li>Convertibility</li> </ul> | <ul> <li>Committed bank facilities</li> <li>Availability</li> <li>Quality (facility attributes: MAC, covenants, maturity date, triggers)</li> <li>Quantity</li> <li>Trade credit</li> </ul> | <ul> <li>Unencumbered assets</li> <li>Divestitures</li> <li>Product lines</li> <li>Divisions</li> </ul> |

#### **Uses**

Operations, Working capital, Capital expenditures, Debt payments (P&I), Dividends,

Share repurchases, Contingencies

# Rated Universe – European Building Materials

| Issuer                     | Domicile    | Activity                                   | Rating   | Last Rating Action  |  |  |
|----------------------------|-------------|--|----------|---|--|--|
| Ciments Français           | France      | Cement/Aggregates                          | Baa3/STA | DNG November 2010   |  |  |
| Italcementi                | Italy       | Cement/Aggregates                          | Baa3/STA | DNG November 2010   |  |  |
| CRH                        | Ireland     | Cement/Aggregates/Light<br>Side/Wholesale  | Baa1/NEG | Outlook changed August<br>2010                            |  |  |
| Dyckerhoff                 | Germany     | Cement/Aggregates                          | Baa2/NEG | Outlook changed April 2010                                |  |  |
| HeidelbergCement           | Germany     | Cement/Aggregates                          | Ba2/POS  | UPG November 2010   |  |  |
| Holcim                     | Switzerland | Cement/Aggregates                          | Baa2/STA | DNG April 2010  |  |  |
| Imerys                     | France      | Roof Tiles/Minerals                        | Baa3/POS | Outlook changed<br>September 2010<br>DNG Jan 2010, issuer |  |  |
| Lafarge                    | France      | Cement/Aggregates/Gypsum                   | Baa3/NEG | comment Feb 2011  |  |  |
| Saint-Gobain               | France      | Lightside/Gypsum/Wholesale                 | Baa2/STA | DNG July 2010   |  |  |
| Wienerberger               | Austria     | Bricks/Roof/Tiles                          | Ba1/NEG  | Outlook changed May 2010                                  |  |  |
| LSR Group                  | Russia      | Aggregates/Bricks/Real<br>Estate/Developer | B2/STA   | UPG June 2010   |  |  |
| Industry-Related Companies |             |  |          |   |  |  |
| Peri                       | Germany     | Formwork Systems                           | Ba1/POS  | Outlook change Feb 2010                                   |  |  |







## Moody's



A career at Moody's

#### The rating process – how you would be involved

Exposure to the complete rating process

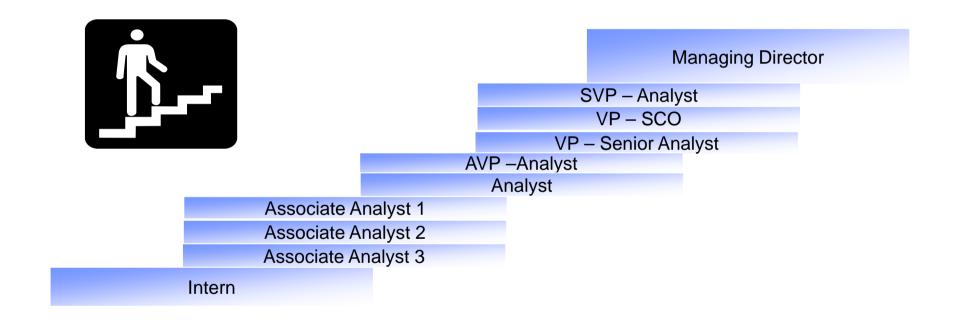


### A snapshot of your tasks

- » Providing support in financial modelling
- » Producing analytical summaries of quantitative and qualitative information for analysts
- » Following news flow related to the portfolio or transactions
- » Compiling and maintaining databases (competitor rating actions, statistics specific to the line of business, bond prices and spreads)
- » Preparing a special project specific to the line of business

#### **Typical career path**

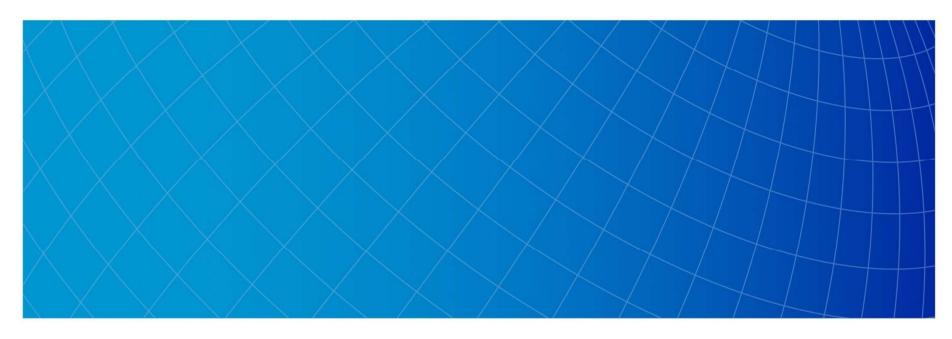
Internship – a stepping stone to associate analyst ranks and a permanent job?



#### What we are looking for

- » Strong academic background with BSc/MSc (or equivalent) in a Finance, Economics or Maths degree
- » Solid understanding of cash-flow lending techniques
- » Financial/statistical research capabilities
- » Credit analysis experience or related experience from a recognised financial institution or an audit firm would beneficial
- » Quantitative aptitude and proven analytical skills
- Sood communication skills both verbal and written
- » Able to work to tight deadlines and manage own workflow/priorities
- » Sound judgment able for form and present findings
- » Strong attention to detail
- » Initiative
- » Fluency in English is essential

# Moody's



Why Moody's

#### What makes us different

- » Recognized thought leader for credit
- Exposure to the entire rating process from day 1
- » Talented workforce in collegial atmosphere
- » Multicultural environment and small teams.
- » Support for continued training and career management
- Core values that go beyond just making money
  - Integrity Independence Insight Intellectual Leadership Inclusion
- » Strong company fundamentals and performance

#### **Moody's Professional Development & Training**

- » Orientation process and ongoing on-the-job training
- » A selection of training courses to be completed, in the following areas:
  - Technical software training
  - Rating committee best practices
  - Introduction to key Moody's methodologies specific to the line of business
  - Modelling and accounting courses as applicable
  - Regulatory training
- Monthly introductory lunch sessions to the other business lines

#### **Diversity enriches our workforce**

International Workforce with diverse backgrounds

- » Over 30 different nationalities globally collectively speaking more than 20 languages
- » 70% of associates fluent in 2 languages
- » Highly skilled collegiate work force

#### How to apply for a position

- Please visit our career website on www.moodys.com
- If you have any queries please contact
  - Annika Henselin (HR Associate)

Annika.Henselin@moodys.com +44(0)20 7772 5617

Sophia Zelazny (HR Associate):

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# Appendix: Rating Process for a Corporate



#### **Rating Process – 3 phases**

- » Initial rating assignment
- » Monitoring of rating
- » Withdrawal of rating



#### **Rating Process**

- » Preliminary, informal discussions
- » Issuer meeting and rating analysis
- » Decision by the rating committee
- » Publication and distribution of the rating
- » Monitoring by the lead analyst
- » Modification of the rating







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