



IBTTA Transportation Summit of South Africa

- The role of Credit Rating Agencies and Ratings on Toll Roads -

Jacque Els General Manager

Agenda

- ☐ Introduction to Moody's Investors Service
- What is a Credit Rating?
- Benefits of a Credit Rating
- Moody's Rating Approach
- Moody's Rating Scale and Rating Products
- ☐ Credit Ratings Corporates vs Project Finance
- ☐ Credit Ratings on Toll Roads Key Rating Factors
- Conclusion



About Moody's

We are one of the World's Leading Independent Global Providers of Credit Rating Opinions and Insight on Credit Risk Measurement and Management for over 100 years



Moody's Investors Service is the leading provider of credit ratings



Leading provider of research, data and analytic tools

Provides ratings and analysis on over \$30 trillion of debt

- √ 136,000 corporate, government and structured finance securities
- √ 67,000 public finance obligations
- √ 10,000 corporate and financial institution relationships
- √ 100+ sovereign nations

Extensive credit opinions, deal research and commentary reach

- ✓ 5,000 Institutions
- √ 30.000 client users

Our Mission: To be the world's most respected authority serving credit-sensitive markets



We are Global



North America: Canada, United States Latin America: Argentina, Brazil, Mexico

EMEA: Cyprus, Czech Republic, Egypt, France, Germany, Spain, Israel, Italy, Russia, South Africa, United Arab Emirates, United Kingdom

Asia: Australia, China, Hong Kong, India, Japan, Singapore, South Korea



What is a Credit Rating?

A Credit Rating is an *independent opinion* on the future ability and legal obligation of an issuer to make timely payments on its financial commitments

Ke	y Elements:
	Independence
	Opinion
	Forward looking view
	Relates to ability to service debt obligations
	 Interest and principal
	Reflection on Credit Quality - purpose of Moody's ratings is to provide investors with a simple system of gradation by which future relative creditworthiness of securities may be gauged
	Consider "worst" possibilities in the "visible" future – not a reflection of statistical factors alone
	Opinion is derived at based on methodology, data input, assumptions, financial models and human capital
	Accordingly, credit ratings can be assigned to Governments, Banks, Corporates, State Owned Utilities, Project Finance Structures, Structured Finance Assets – in essence, anything with a predictable future cash flow
	Should not be used in isolation as the basis for investment decisions
	Do NOT constitute a recommendation to buy, hold or sell any debt security
	Obligations carrying the same rating are not claimed to be of absolutely equal credit quality. In a broad sense, they are alike in position
	The credit quality of most issuers and their obligations are not fixed and steady over a period of time, but tends to undergo change – upgrades and downgrades reflect these changes
	Credit Ratings are generally globally comparable, except in the case of National Scale Ratings



Benefits of Moody's Ratings

- Broader access to the credit markets
- Strong Liquidity and Fair Pricing
 - Investor interest and participation
 - Key role in debt funding and debt capital markets
 - Corporate funding, bank funding, project and infrastructure finance
- Enhanced funding options and flexibility
- Independent benchmark indicator of credit quality
- External Marketing Tool: affirming your credit openly demonstrates a willingness to be transparent
- ☐ Internal Management Tool: assist with financial & strategic planning
- □ Comparative Tool within the global sector and rating category
- ☐ Users: Regulators, Fixed income investors, Banks and other Lenders

One of the world's foremost authorities in risk-sensitive markets

Expertise by sector and asset class

Analytical value to the entire market

Effective in identifying credit risk

Seasoned analytical staff

Global scale and coverage

Highly Trusted Brand



Our Value Proposition

Moody's Rating Approach

- A single symbol conveying/reflecting opinion based on diverse information
- Transparent
 methodology provides a
 framework to begin
 analysis
- Qualitative elements crucial to result hence emphasis on interactive rating

Moody's Market Leadership

- Market leader
- Highly experienced analytical team
- Longest presence in bond indices

Moody's Investor Impact

- Broad based investor outreach
- Investor meetings
- Roundtables
- Credit briefings
- Conferences
- Published research

Moody's Operational Excellence

- Enhanced rating transparency
- Regulatory compliant framework
- Regular updates on all new regulations
- Customer focused
 Commercial Group



Moody's Rating Approach



QUALITATIVE ANALYSIS

Management , strategic direction, financial flexibility

QUANTITATIVE ANALYSIS

Financial statements, past performance, future projections

MARKET POSITION

Organization's size and scope within Sector

COMPETITIVE TRENDS IN SECTOR

Global / Domestic

SECTORAL (INDUSTRY) ANALYSIS

Specific risk factors and financial metrics by industry

SOVEREIGN MACRO-ECONOMIC ANALYSIS

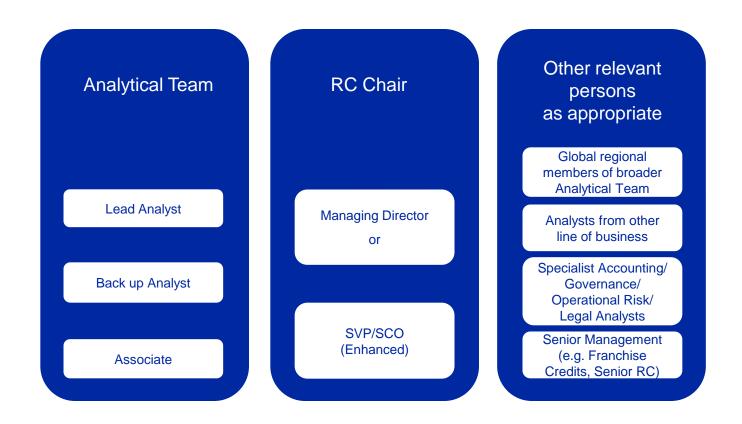
Overall health of the country and economic environment

- A credit rating is an independent opinion that reflects an enormous amount of diverse information
- ☐ Credit quality embraces relative default probability, loss severity,

 "financial strength" and "transition risk"
- Bonds with the same credit rating, therefore, may be comparable with respect to overall credit quality but may differ with respect to specific credit quality characteristics



Rating Concluded by Committee

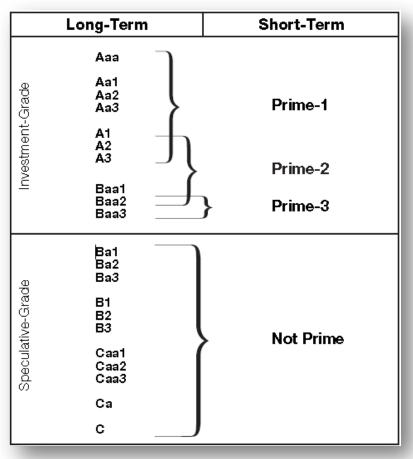


Attendance based on Knowledge, Relevance & Expertise



Moody's Rating Scale and Definitions

The purpose of Moody's ratings is to provide investors with a simple grading system by which relative creditworthiness of securities is determined



Source: Moody's Rating Symbols and Definitions

Aa	Obligations rated Aa are judged to be of high quality and are subject to very low credit risk
A	Obligations rated A are considered upper-medium grade and are subject to low credit risk.
Baa	Obligations rated Baa are subject to moderate credit risk. They are considered medium grade and as such may possess certain speculative characteristics.
Ва	Obligations rated Ba are judged to have speculative elements and are subject to substantial credit risk.
В	Obligations rated B are considered speculative and are subject to high credit risk.
Caa	Obligations rated Caa are judged to be of poor standing and are subject to very high cred it risk.
Ca	Obligations rated Ca are highly speculative and are likely in, or very near, default, with some prospect of recovery of principal and interest.
С	Obligations rated C are the lowest rated class of bonds and are typically in default, with little prospect for recovery of principal or interest.
Caa. 1 Ifier 2	Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa througi the modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the moo indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rat tegory.

- P-1 Issuers (or supporting institutions) rated Prime-1 have a superior ability to repay short-term debt obligations.
- P-2 Issuers (or supporting institutions) rated Prime-2 have a strong ability to repay short-term debt obligations.
- P-3 Issuers (or supporting institutions) rated Prime-3 have an acceptable ability to repay short-term obligations.
- NP Issuers (or supporting institutions) rated Not Prime do not fall within any of the Prime rating categories.

Note: Canadian issuers rated P-1 or P-2 have their short-term ratings enhanced by the senior-most long-term rating of the issuer, its guarantor or support-provider.

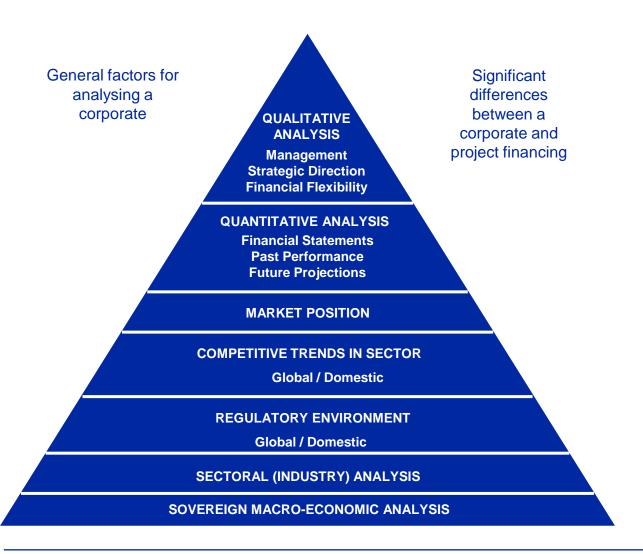


Moody's Rating Products

Woody of talling i roddolo	CFG	FIG	SFG	PPIF
Public Ratings				
Long Term – published ratings on Issuer and/or long term securities	✓	√	✓	√
Short Term – published ratings on short term notes/programs	✓	✓	✓	✓
Private Ratings		_	_	
Monitored – Confidential ratings that are maintained	\checkmark	\checkmark	√	\checkmark
Unmonitored – Confidential point-in-time ratings	✓	\checkmark	✓	\checkmark
Unpublished Monitored Loan Rating (UMLR)	✓	✓		√
Indicative Rating Single scenario review for an Unrated Issuer	✓	✓		✓
Indicative Assessment Service Multiple scenario review for an Unrated Issuer	✓	✓		✓
Ratings Assessment Service				
Multiple scenario review for Rated Issuer	✓	\checkmark	✓	√
Quality Assessment				
Servicer & Originator			✓	
Asset Manager/Hedge Fund		✓		



Credit Ratings – Corporates vs Project Finance



Corporate

- Creature of demand
- Few restrictions on scope of business
- Usually features operating assets
- Usually low level of protection to lenders
- · Mix of amortising and bullet debt
- Reliance on corporate cash flows or value of assets to repay debt
- Multi assets/products

Project Finance Structure

- · Creature of contracts
- Special purpose entity with limited ability to change scope of business
- Usually features construction risk at inception
- Customary to have structural protection to lenders
- Prevalence of amortising long term debt
- Reliance on specific asset/reserve future cash flows to repay debt
- Single asset-product finite life



Credit Ratings on Toll Roads

Moody's Methodology for rating Operational Toll Roads

- Moody's adopts a comprehensive and transparent methodology for the rating of debt obligations of toll roads
- ☐ Basis of key factors, each encompassing a set of sub-factors
- Measurement of key rating factors:
 - Identify and quantify specific features
 - 6 key rating factors
 - 18 sub-factors
 - Each sub-factor subject to 3 types of assessment:
 - Pure qualitative assessments
 - Qualitative assessments based on rankings estimated by Moody's or broad quantitative measured defined by Moody's
 - Pure quantitative assessments that can be measured by publicly available data inputs e.g. into financial metrics and macroeconomic data
- ☐ For each of the 18 sub-factors, specific ranges of quantitative and qualitative features are defined for broad rating categories, i.e. Aaa, Aa, A, Baa, Ba, B etc
- ☐ And issuer's characteristics are scored for each sub-factor in the applicable category
- ☐ Credit ratings mapping grid is the basis for assigning ratings to Toll Roads based on an this established methodology



Credit Ratings on Toll Roads - Rating Factors

Factors	Sub-Factors	Weighting
Asset Type (20% weighting)	Asset features Competing routes	• 10.00% • 10.00%
Fundamentals of Service Area (10% weighting)	Robustness and Diversity of Service AreaGDP/Capita in Service Area	• 5.00% • 5.00%
Traffic Profile (10% weighting)	 User profile Track Record and Stability of Tolled Traffic Annual Average Daily Traffic per Lane Km 	• 3.33% • 3.33% • 3.33%
Concession and Regulatory Framework (10% weighting)	 Risk of Adverse Changes to Concession T's & C's Ability to Increase Tariffs Protection against Events outside Concessionaire's Control 	• 3.33% • 3.33% • 3.33%
Stability of Business Model and Financial Structure (10% weighting)	 Ability and Willingness to Pursue Opportunistic Corporate Activity Ability and Willingness to Increase Leverage Targeted Proportion of Revenues outside Core Concession 	• 3.33% • 3.33% • 3.33%
Key Credit Metrics (Historical and Projected) (40% weighting)	 Cash Interest Coverage FFO/ Debt Moody's Debt Service Coverage Ratio RCF / Capex Debt / PV Base Cash Flows or Concession Life Coverage Ratio 	8.00%8.00%8.00%8.00%8.00%
TOTAL		• <u>100.00%</u>

[•] Above constitutes primary weighting of Key factors and sub-factors – analysis leads to a rating indicated outcome on each factor, e.g. Aaa, Aa, A, Baa, Ba etc

[•] Based on the above, a further weighting is applied by rating category (Aaa, Aa, A, Baa, Ba etc)



Credit Ratings on Toll Roads - Rating Factors

Factor 1: Asset Type Weighting: 20%									
	Aaa	Aa	Α	Baa	Ba	В	Caa	Sub-weighting Factor	
Asset Features	major large trunk routes		link;can be essen- tial but small trunk or urban route (e.g. tunnel or bridge)	small number of roads in a small economic ser- vice area or niche market	exposed to local economy	tial in a deterio- rating market	Small single asset in an unproven or extremely weak market		
Competing Routes	roads)	and stable com- petitive environ- ment; no changes to key modes for	long term; grad- ual expected impact on traffic, cumulatively	intensify over long term; grad- ual expected impact on traffic, cumulatively 10-	ment; new routes will likely impact traffic when opened by 10-	environment; sig- nificant (>20%)	Competitive envi- ronment is erod- ing current traffic trends; expected to deteriorate rap- idly		

years

Factor 6: Key	y Credit Metrics (Historical & Projected))
Weighting: 4	0%	

1

	Aaa	Aa	Α	Baa	Ba	В	Caa	weighting Factor
Cash Interest Coverage	>10.0x	7.0-10x	4.5-7.0x	2.5-4.5x	1.8-2.5x	1.5-1.8x	<1.5x	20.00%
FFO / Debt	>40%	25-40%	14-25%	8-14%	6-8%	4-6%	<4%	20.00%
Moody's Debt Service Coverage Ratio	>8.0x	5.0-8.0x	3.0-5.0x	1.8-3.0x	1.3-1.8x	1.0-1.3x	<1.0x	20.00%
RCF / Capex	>3.5x		1.5-2.5x	1.0-1.5x	0.5-1.0x	<0.5x	<0.5x	20.00%
Debt / PV Base Cash Flows	<10%	10-20%	20-30%	30-40%	40-60%	60-80%	>80%	
or								20.00%
Concession Life Coverage Ratio	>10.0x	10.0-5.0x	5.0-3.3x	3.3-2.5x	2.5-1.7x	1.7-1.25x	<1.25x	

Source: Rating Methodology, Operational Toll Roads, December 2006







Credit Ratings on Toll Roads – The Outcome

Factors	Sub-Factors	Weighting
Asset Type	Asset Features	10.00%
	Competing Routes	10.00%
Fundamentals of Service Area	Robustness and Diversity of Service Area	5.00%
	GDP / Capita in Service Area	5.00%
Traffic Profile	User Profile	3.33%
	Track Record and Stability of Tolled Traffic	3.33%
	Annual Average Daily Traffic per Lane Km	3.33%
Concession and Regulatory Framework	Risk of Adverse Changes to Concession Terms and Conditions	3.33%
	Ability to Increase Tariffs	3.33%
	Protection against Events outside the Concessionaire's Control	3.33%
Stability of Business Model and Financial Structure	Ability and Willingness to Pursue Opportunistic Corporate Activity	3.33%
	Ability and Willingness to Increase Leverage	3.33%
	Targeted Proportion of Revenues outside Core Concession	3.33%
Key Credit Metrics (Historical & Projected)	Cash Interest Coverage	8.00%
	FFO / Debt	8.00%
	Moody's Debt Service Coverage Ratio	8.00%
	RCF / Capex	8.00%
	Debt / PV Base Cash Flows or Concession Life Coverage Ratio	8.00%

4		
	Step 1	
_		•

Rating Category	Aaa	Aa	Α	Baa	Ba	В	Caa
Weighting	1	1	1	1.15	2	3	5

	Cton 2
	Step 2
V.	

	Indicated Rating	Overall Score
	Aaa	1.49 or lower
	Aa	1.5 to 4.49
	A	4.50 to 7.49
1	Baa	7.50 to 10.49
	Ba	10.50 to 13.49
	В	13.50 to 16.49
	Caa	16.50 to 18.00

Baa1	7.50 - 8.49
Baa2	8.50 - 9.49
Baa3	9.50 - 10.49





Credit Ratings on Toll Roads - Example

Toll Roads												
						Asset Type		Fundamentals of Service Area				
										Traffic Profile		
	Negative Outlier	Positive Outlier				10.00%	10.00%	5.00%	5.00%	3.33%	3.33%	3.33%
Toll Roads	Current Rating	Outlook	Factor- Indicated Rating	Additional Uplift	Final Indicated Rating	Asset Features	Competing Routes	Robustness & Diversity	GDP / Capita	User Profile	Track Record	AADT per Lane Km
Asia												
Chinese Future Corporation	Ba2	stable	Ba2	0	Ba2	Baa	Ba	Baa	В	Baa	Baa	Ba
Road King Infrastructure Limited	Ba1	stable	Ba1	0	Ba1	Baa	Ba	Α	Caa	Baa	Α	Ba
Australia												
Airport Motorway Trust	A3	stable	A2	0	A2	Α	Aa	Aa	Aaa	Aa	A	Aa
Interlink Roads Pty Ltd	A2	stable	A2	0	A2	Α	Aa	Aa	Aaa	Aa	Aa	Aa
Transurban Finance Company Pty Ltd	A3	negative	Baa1	0	Baa1	Aa	Aa	Α	Aa	Aa	Α	Aa
Europe												
Autostrade S.p.A.	A3	stable	A3	0	A3	Aaa	Aa	Aa	Aaa	Α	Aaa	Aa
Brisa Auto-Estradas de Portugal S.A.	А3	stable	А3	0	A3	Aa	Aa	Α	Aa	Baa	Aa	Α
Latin America												
Autopista del Mayab	Ba1	stable	Ba3	+2	Ba1	Aa	Aa	Baa	Baa	Α	Α	Α
Autopista del Sol	Baa2	stable	Baa3	+1	Baa2	Α	Aa	Α	Α	Baa	Α	Baa
Autopista Monterrey-Cadereyta	Baa3	stable	Baa3	+1	Baa2	Aa	Aa	Baa	Baa	Aa	Aa	Aa
BG Trust, Inc. (Corredor Sur - ICA Panama)	Baa2	stable	Baa3	+1	Baa2	Α	Aa	Α	Baa	Α	Α	Baa
Carretera de Cuota Constit. Y Ref. La Venta (MexToI)	Baa3	stable	Baa3	+1	Baa2	Aa	Aa	Baa	Baa	Aa	Aa	Α
Libramiento de Matehuala Toll Road Mexico	Baa3	stable	Ba1	+1	Baa3	Α	Α	Baa	Baa	Baa	Baa	Baa
Rutas del Pacifico	Baa2	stable	Baa2	+1	Baa1	Α	Α	Α	Α	Baa	Α	Baa
Sociedad Concesionaria Costanera Norte S.A.	Baa2	stable	Baa2	+1	Baa1	Aa	Aa	Α	Α	Aaa	Baa	Baa
Sociedad Concesionaria Vespucio Norte Express S.A.	Baa3	stable	Baa2	+1	Baa1	Α	Α	Α	Α	Baa	Baa	Baa
Talca Chillan Sociedad Concessionaria	Baa2	stable	Baa2	+1	Baa1	Α	A	Α	Α	Baa	A	Ba
North America												
Toll Road Investors Partnership II, L.P. (Dulles Greenway)	Baa3	stable	Ba2	+2	Baa3	Baa	Aa	Aaa	Aaa	Aaa	A	Aa



Conclusion

☐ Moody's has established itself as a leading independent provider of credit rating opinions and related information for over 100 years ☐ Credit ratings continue to play a key role in the local and global debt capital markets ☐ It is vital that the use and application of Moody's credit ratings are well understood Moody's adopts a thorough interactive approach during the credit rating process Considers various sets of qualitative and quantitative data and inputs Transparent process key to the delivery of a credit rating outcome ☐ Moody's employs a specific credit rating methodology to analyze the credit quality of and assign credit ratings to Operational Toll Roads ☐ Infrastructure development and financing remain key themes in South Africa and Sub-Sahara Africa ☐ Roles of local market vis-à-vis international market contribution to funding becoming more important than ever ☐ Credit ratings and capital market funding are expected to play an increasingly important role in infrastructure funding across Africa over the next decade or two



Moody'S INVESTORS SERVICE

Jacques Els

General Manger: South Africa

Tel No: 27 11 217 5470

Email: jacques.els@moodys.com



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