



Credit Assessment &  
Insurance Rating Process  
(Workshop A2)



Role of The Rating  
Agencies – The S&P  
Perspective

2004 Healthcare Conference  
Monday 26<sup>th</sup>, April 2004

David Anthony, Director  
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The McGraw-Hill Companies

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David has been involved in insurance for 17 years, most recently in a ratings context with Standard & Poor's in London and, between May 1992 and March 1994, with Moody's Investors Service in New York. He also worked in insurance banking with Citibank, N.A. in London, where he was European Insurance Risk Manager and, prior to this, Senior Relationship Manager for Nordic insurance.

For the preceding 12 years, David's career was in international corporate and correspondent banking, working with Lloyd's Bank International, Al Saudi Banque and Credit Lyonnais in London, Brussels, Antwerp, Dubai, Bahrain, Cairo, Alexandria and Paris.

David holds a Bachelors degree in Political Science from the University of Birmingham and a Masters degree - MSc. (Econ.) - in Economic History from the University of London.

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Agenda

1. Profile of Standard & Poor's and Its Ratings
2. The Insurance Rating Process
3. Conclusions
4. (More) Questions?

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## Standard & Poor's Mission Statement

***'To Be The Global Leader In Providing Independent, Highly Valued Analytical Services And Information To The World's Financial Markets'***

*Note: No mention of ratings!*

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## Profile of Standard & Poor's

- 220,000 ratings in total around the world
- Ratings on 3,500 insurers
- Ratings on 1,400 financial institutions
- 200 Financial Services analysts globally
- 35 analysts dedicated to insurance in Europe

**Competitive Advantage =**  
impartiality + reputation + coverage + global perspective

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## What Ratings Can Standard & Poor's Apply To Insurers?

PUBLIC INFORMATION (Paid for by Subscribers)	INTERACTIVE (Paid for by Issuer)
Financial Strength (FSR)	Financial Strength (FSR)
	Counterparty Credit (CCR)
	Medium & L/T Debt
	Commercial Paper
	Short-term FSR
	Financial Enhancement (FER)

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### What is an Insurer Financial Strength Rating (IFSR)?

“...is a current opinion of...capacity to pay under insurance policies and contracts in accordance with their terms.”

- **Prospective** rather than **historic** view
- Does not take into account:
  - Timeliness of payment
  - Imposition of surrender penalties or MVAs
  - Likelihood of the use of a defence to deny claims (though a Financial Enhancement Rating (FER) does)
- Does **implicitly** take into account:
  - Policyholders' reasonable expectations (PRE)

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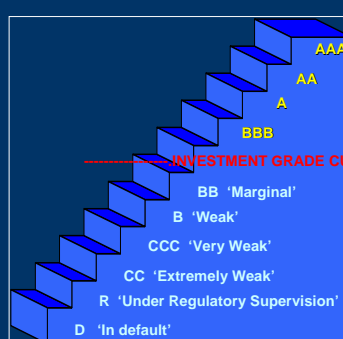
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### Standard & Poor's Rating Scale



Rating	Description
AAA	'Exceptionally Strong'
AA	'Very Strong'
A	'Strong'
BBB	'Good'
<b>INVESTMENT GRADE CUT-OFF</b>	
BB	'Marginal'
B	'Weak'
CCC	'Very Weak'
CC	'Extremely Weak'
R	'Under Regulatory Supervision'
D	'In default'

NOTE: Ratings can be further qualified through use of '+' and '-' suffixes  
Also, short-term ratings assigned as 'A-1+', 'A-1', 'A-2' and 'A-3'

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### Modifiers, Outlooks, CreditWatch and Debt Ratings

1. All ratings except 'AAA' can be modified with '+' or '-'
2. Medium-term direction (up to 2 years) of rating indicated by positive or negative **Outlook**
3. Short-term (90 day) uncertainty to rating indicated by 'Positive', 'Negative' or 'Developing' **CreditWatch**
4. We also rate short and long-term **senior and subordinated debt** of insurers and their holding companies, but these ratings are usually 'gapped' or 'notched' down from the IFSR

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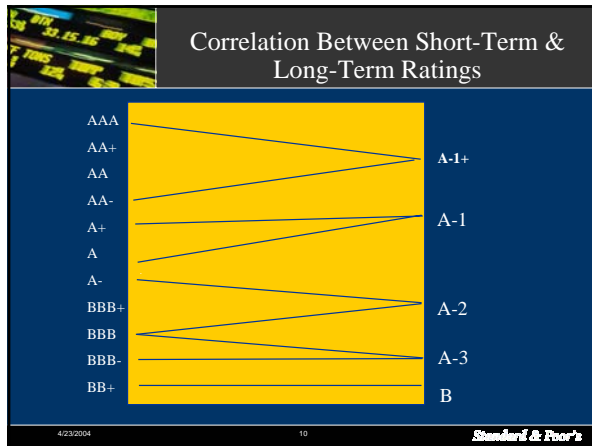
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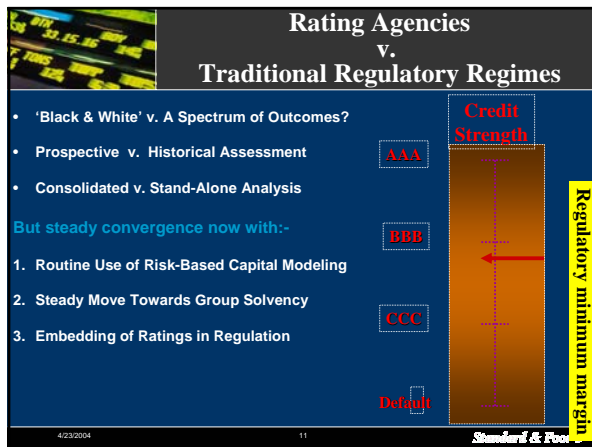
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### Where Do Insurers Need To Be On The Rating Scale?

- AAA:** Monoline Bond Insurance
- AA-Minus or Better:** UK With Profits; Group Life; US GICs; Long-term Savings & Pensions; Life Reinsurance; Commercial Lines/Long-tail Liability, etc.
- A-Minus or Better:** Non-life Reinsurance; Broker-Driven Business
- BBB-Minus or Better:** Any issuer wishing to avoid non-investment grade status
- 'B' or Better:** Non-Investment grade issuer selling its debt securities into wholesale markets
- 'C' or lower:** A reinsurer actively seeking commutations!!

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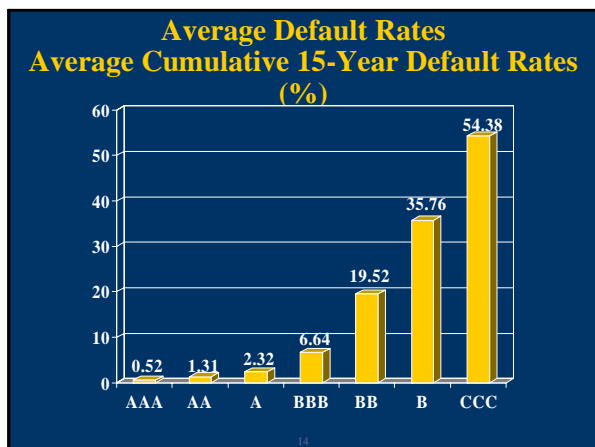
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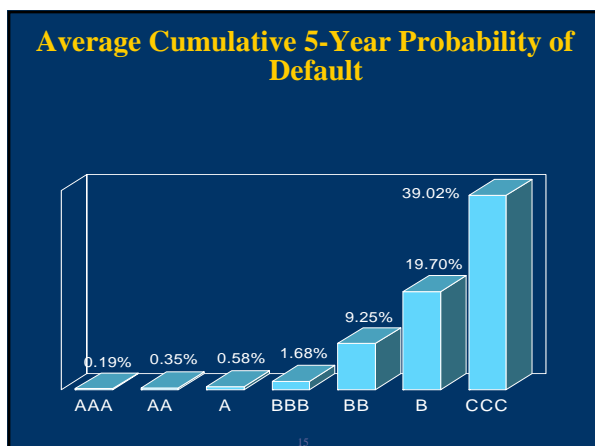
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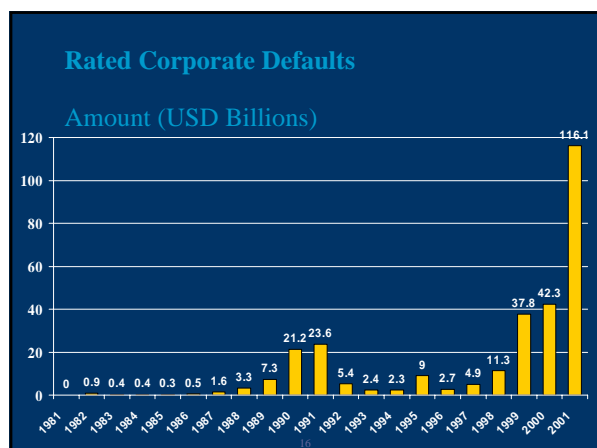
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### Default Rates by Industry

SECTOR	No. of obligors	No. of defaults	Default rate %
Aerospace/Automotive/Capital goods/metal	1095	166	15.16
High tech/Computers/Office equipment	410	43	10.49
Consumer/Service sector	1,330	243	18.27
Leisure time/Media	796	135	16.96
Health care/Chemicals	576	64	11.11
Forest/Building products/Home builders	380	48	12.63
Energy/Natural resources	549	69	12.57
Utilities	900	19	2.11
Telecommunications	454	55	13.11
Transportation	421	54	12.83
Financial institutions (i.e. banks)	1,903	66	3.47
<b>Insurance / real estate</b>	<b>955</b>	<b>29</b>	<b>3.04</b>
<b>Totals</b>	<b>9,769</b>	<b>991</b>	<b>10.14</b>

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## So How On Earth Does S&P Assess Financial Strength?

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**The S&P Insurance Analytical 'Template'**  
– We Sub-Rate Each Factor

1. Industry Risk
2. Competitive Position
3. Management & Strategy
4. Operating Performance (inc. 'quality of earnings')
5. Investments
6. Liquidity
7. Capitalisation (inc. 'quality of capital', reinsurance, reserving & risk-based capitalisation)
8. Financial Flexibility

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**Industry Risk**

*By class of business, sector, territory:*

- Competitiveness
- Ease of entry
- Substitute products
- Liability tail
- Social inflation
- Risk of catastrophic loss
- Economic considerations
- Regulatory, legal and accounting environment

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**Competitive Position**

*Capacity To Continue To Generate Premium At Economic Rates:*

- Competitive strengths / weaknesses?
- Overall Diversification – too little, too much or just right?
- Past (5 years) and likely future (3 years) growth rates
- Distribution
- Product range by lines of business
- Market shares of main and subsidiary operations
- Geographic diversification
- Organisational and legal structures

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## Management & Corporate Strategy

Quality of Management

- Professionalism & Prudence?
- Technical Strengths & Weaknesses?
- Depth & Breadth?
- Operational Controls? MIS?

Appropriateness of Strategy

- Financial Strategies
- Realistic? Coherent?

Corporate Governance & Accounting

- Is Corporate Governance Robust? Is accounting transparent?

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## Operating Performance I

*How successfully does the company convert its competitive strengths into earnings? Is capital strengthening dependent upon retained earnings?*

*Is Profit Maximisation The Real Driver of Management?*

- What measures of performance does management employ?
- What hurdle rates of return are expected?

Quality of Earnings

- Diversity?
- Volatility?

Underlying Profitability

- Non-life returns adjusted for loss reserve strength
- Life using annual increment in embedded value as well as ROA, etc.
- Total return of annual increase in net assets
- Are profits derived from both underwriting and investment activities?

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## Operating Performance II

- Loss, expense, combined and other operating ratios
- Commission ratios
- Other expense levels
- Investment return
  - Income
  - Realised gains
  - Unrealised gains
- Return on revenue (non-life business)
- Return on assets (life business)
- Return on equity / Return on capital employed
- (Earnings Adequacy Model)

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## Investments

- Asset allocation
- Credit quality of bonds
- Percentage exposure to equity instruments
- Asset diversification/concentrations
- Valuation bases and “hidden values”
- Strategy re the realisation of capital gains
- Asset/liability management
- Use of derivatives

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## Liquidity I

Analyse:

- First tier: Underwriting/operating cash flows
- Second tier: Liquidity of investment portfolio
- Third tier: Committed funding facilities
- Cash-flow statements

Consider:

- Impact of adverse investment market conditions
- Response to major loss and catastrophe scenarios
- Cash & marketable securities as % of technical reserves

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## Liquidity II

(Euros 000's) ----- Year ending 31 December ---

Cash Flow Model	2003	2002	2001
Net written premiums	14,554.0	15,231.2	14,006.7
Net claims paid	(10,246.3)	(10,443.0)	(9,158.2)
Acquisition costs	(2,919.0)	(3,060.1)	(2,750.3)
General expenses	(1,603.6)	(1,663.3)	(1,857.8)
<b>UW cash flow</b>	<b>(214.9)</b>	<b>94.8</b>	<b>240.4</b>
Net inv. inc.	1,651.1	1,591.2	1,348.3
Realised gains/losses	1,276.0	398.3	281.6
Tax	(423.1)	(223.6)	(219.7)
<b>Total cash flow</b>	<b>2,289.1</b>	<b>1,809.7</b>	<b>1,650.6</b>
U/W cash-flow ratio	98.5%	100.4%	101.7%
Total cash-flow ratio	115.7%	112.0%	111.8%

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## Capital Adequacy

Focus On Consolidated Capitalisation

- Capital planning
- Core capital v. total capital
- Quality of Capital (use of debt capital)
- Risk-based capitalisation
- Loss reserve adequacy
- Reinsurance protection

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## Financial Flexibility

WHAT IF MORE CAPITAL IS REQUIRED?

- Support from parent group?
- Support from shareholders?
- Support from banks?
- Support from capital markets?
- Demutualise/downstream holding company?
- Subordinated debt capital to support solvency margin?
- Securitisation?
- Sell out to the highest bidder?

Conclusion: We take considerable comfort when insurers are perceived to have strong financial flexibility relative to likely needs

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## Risk-Based Capital Model in Europe

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### Approach to Risk-Based Capitalisation

- Adjust reported capital onto more realistic economic basis (Total Adjusted Capital - "TAC")
- TAC then reduced by 'charges' for credit risk and investment market volatility risk to give Risk Adjusted Capital ("RAC")
- RAC level of capital is compared with a base level of capital required to support operations at a triple-B (good) level
- Capital adequacy ratio determined

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### Risk Adjusted Capital Model – The Basic Elements

+ Reported capital	X	T
+ Equity-type reserves	X	A
+ Eligible hybrid equity	X	C*
+/- Asset and liability adjustments	X	
<b>Risk Adjusted Capital (RAC)</b>	<b>= (A)</b>	<b>X</b>
<b>Required Capital By Line of Business (for 'BBB')</b>	<b>= (B)</b>	<b>X</b>
<b>Capital Adequacy Ratio (CAR)</b>	<b>= (A/B)</b>	<b>X%</b>

\* TAC = Total Adjusted Capital = Total Economic Capital + Eligible Hybrid Equity

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### Premium Charges (%)

Class of business	Direct	Reinsurance	
		Prop.	Non-prop.
Health	12	12	18
Accident	18	18	27
Motor	12	12	18
Marine/aviation/etc.	17	17	26
Property	19	19	30
Liability	27	27	29
Pecuniary	18	18	27
Credit	75	75	115
Finite	n/a	n/a	4

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## Capital Adequacy Matrix

Above 175%	AAA	Extremely strong
150%-175%	AA	Very strong
125%-150%	A	Strong
100%-125%	BBB	Good
Below 100%	BB or lower	Vulnerable

Capital Adequacy Ratio (C.A.R.) =  $\frac{\text{Available Capital}}{\text{Required Capital}}$

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## Assessing Reinsurers

- S&P applies the same basic analytical template as just discussed
- For the larger reinsurers writing considerable volumes of financial risk, we adopt an exposure based approach to solvency analysis
- Re structured financial risks, we analyse each transaction individually, earmark capital accordingly, and give credit where appropriate for covariance

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## Risk & Risk Reduction

S&P Does Not Provide Consultancy But The Rating Conclusion May Improve If The Subject Company Displays A Number of The Following:

- A thorough understanding of market dynamics
- Tangible competitive strengths
- Controlled rates of growth to stay within prudent financial parameters
- Improved level and/or quality of capitalisation
- Improved use of reinsurance
- Sustainably improved operating performance through more selective underwriting and/or through appropriate pricing

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## Classifying The Subsidiaries

*Subsidiaries Are Analysed Against Our Perception of Strategic Status Within Group (as derived from our understanding of group strategy)*

- Core Subsidiaries
- Strategically Important Subsidiaries
- Non-Strategic Subsidiaries

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## Core

'Core' means a subsidiary must display most of the following:

- Significant proportion (>5%) of group capital
- Capitalised to within 1 grade of group 'CAR'
- Operating in lines integral to group strategy
- Same name or branding as parent
- Operating as a division - only separate for legal, regulatory or fiscal reasons
- Sale by the parent is inconceivable
- At least 51% voting control by parent group
- Reasonably successful at what it does
- Demonstrated parental support in past

**ALL Core entities carry the same (group) rating**

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## Strategically Important Subsidiaries

- Core characteristics, except size or capital
- Capitalised to at least a 'BBB' RBC level
- Important but operationally stand alone
- Different name from parent
- History of support
- Sale unlikely but finite group commitment
- All significant acquisitions in first year, at least
- Shares same customers/distribution as parent

**Stand-alone rating plus one category (i.e. 3 notches) of support**

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### Not Strategically Important Subsidiaries

- Not eligible for Core or 'S.I. Status
- Not prudently (i.e. BBB) capitalised
- Might be sold in near term
- Unprofitable, turnaround unlikely, limited support
- Ancillary business to rest of group
- Start-ups (i.e. a track-record of less than 5 years)

Stand-alone rating only (or at most 1 notch with a strong and plausible letter of comfort)

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### ACCEPTED FORMS OF EXPLICIT SUPPORT

- Guarantees
- Comprehensive, Long-term Stop-loss Reinsurance
- Occasionally, Net Worth Maintenance Agreements...

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### Conclusions

1. Rating agencies merely provide an opinion that we hope is of use and value to ratings users and rated companies
2. The rating process is robust in order to be fair and globally consistent
3. Analytical integrity is a given, we hope! (loss of reputation would put us out of business!)
4. There is no such thing as a 'bad' rating, merely degrees of risk. We are certainly not saying that every company needs a triple-'A' rating nor that every policyholder requires triple-'A' security!

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More Questions..?

*Perhaps a few observations re health  
insurance..??*

***End???***

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