

## **Standard & Poor's Rating Process**

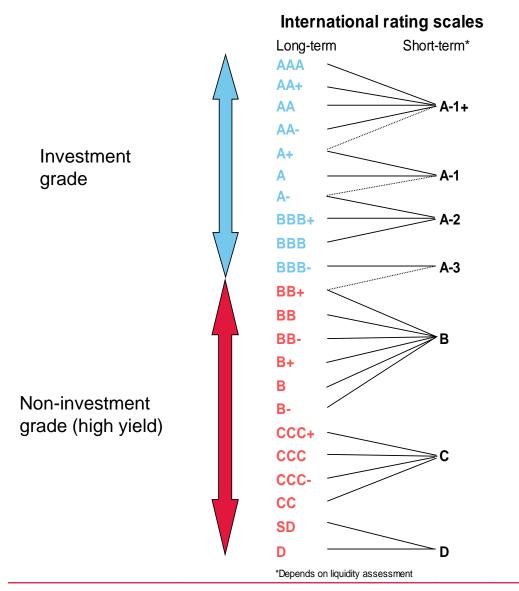
David Gillmor European Head of Leveraged Analytics

2<sup>nd</sup> December 2015

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A B C A B A C B A C A B A B C B C B A C B B B A A A B A C B A CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A A A B C A B A C C A B A C A A B Understanding Credit Ratings <u>C B C B A B A B C B C B A B A C</u> A B A C B B A C A B A C B B A A BCCCBACCBCCCBACC CABCABACCABCABAB C C C B A C A B C C C B A C C

## **Standard & Poor's Rating Scales**



#### Ratings are actively monitored

#### Outlook

- How the rating can change in the near to medium term
  - 6 months-1 years for non-IG

– <2 years for IG</p>

- 1-in-3 chance of alternative scenario materializing
- Positive', 'Negative', 'Stable' or 'Developing'

#### Credit Watch

- Possible near-term change
  - <90 days</p>
- 1-in-2 chance of alternative scenario materializing
- Most likely event driven
- 'Positive', 'Negative', or 'Developing'



# Historical Inverse Correlation Between Rating Levels and Defaults

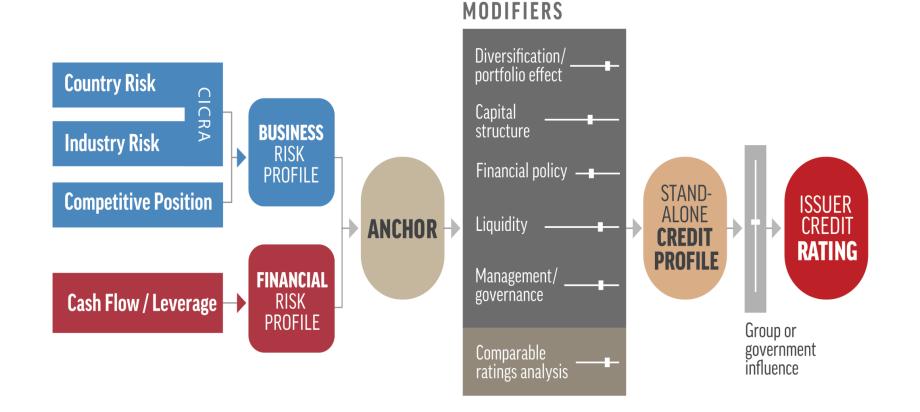
	(	Global	Corpo	rate Av	/erage	Cumu	lative	Default	t Rates	, 1981	- 2012	. (%)			
						_	Time h	orizon	(years)	_					
Rating	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15
AAA	0.00	0.03	0.14	0.25	0.36	0.5	0.5	0.6	0.7	0.8	0.8	0.8	0.9	0.9	1.0
AA	0.02	0.04	0.09	0.24	0.39	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
Α	0.07	0.18	0.28	0.43	0.59	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.2	2.3	2.5
BBB+	0.14	0.40	0.70	1.00	1.3	1.7	2.0	2.3	2.6	3.0	3.3	3.5	3.8	4.2	4.7
BBB	0.20	0.52	0.81	1.3	1.7	2.2	2.6	3.0	3.5	3.9	4.4	4.9	5.3	5.4	5.7
BBB-	0.35	1.1	1.9	2.9	3.8	4.7	5.5	6.2	6.8	7.5	8.1	8.7	9.3	10.1	10.7
BB+	0.47	1.3	2.5	3.6	4.7	5.9	6.9	7.7	8.6	9.6	10.3	11.0	11.6	12.1	13.0
BB	0.71	2.2	4.3	6.2	8.1	9.6	11.0	12.2	13.2	14.0	14.9	15.6	16.0	16.3	16.6
BB-	1.2	3.7	6.2	8.6	10.8	12.9	14.7	16.4	17.9	19.2	20.2	20.9	21.8	22.5	23.3
B+	2.4	6.5	10.4	13.9	16.5	18.5	20.4	22.0	23.5	25.0	26.2	27.1	28.0	28.8	29.5
В	5.1	11.2	16.0	19.5	22.0	24.4	26.0	27.0	28.0	28.9	29.7	30.4	31.1	31.7	32.5
B-	8.2	15.8	21.3	25.1	28.0	29.9	31.6	32.6	33.2	33.7	34.4	35.0	35.4	35.8	36.3
CCC/C	26.9	35.9	41.2	44.2	46.6	47.7	48.7	49.4	50.4	51.1	51.8	52.6	53.5	54.3	54.3
Investment grade	0.1	0.3	0.5	0.8	1.1	1.4	1.7	1.9	2.2	2.5	2.7	2.9	3.1	3.3	3.5
Speculative grade	4.1	8.1	11.5	14.2	16.4	18.3	19.9	21.2	22.4	23.5	24.4	25.2	25.9	26.5	27.1
All rated	1.6	3.1	4.4	5.5	6.5	7.3	8.0	8.6	9.1	9.6	10.1	10.5	10.8	11.1	11.5
Sources: Standard & I	Poor's Glo	bal Fixed	l Income I	Research	and Stan	dard & P	oor's Cree	ditPro®.							

- Lower rating implies higher risk of default
- However, investment grade ratings have never been risk free
- Defaults are cyclical, these are just averages through the cycle



A A B C A B A C B A C A B A B C всвасвввааавасва **BBACABBBCCCAB** A B A C C C C B A C A C B C B A **ААВСАВАССАВАСААВ** Corporate Credit Rating Methodology Methodology **BCBABABCBCBABAC** BACABACBBAA <u>C C C B A C C B C C C B A C C</u> BCABA CABCABACCA C C B A C A B C C C B A C

#### Framework





AABCABACBACABABC B C B A C B B B A A A B A C B A CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A AABCABACCABACAAB Business Risk Profile Assessment СВСВАВАВСВСВАВАС A B A C B B A C A B A C B B A A B C C C B A C C B C C C B A C C CABCABACCABCABAB <u>C C C B A C A B C C C B A C C</u>

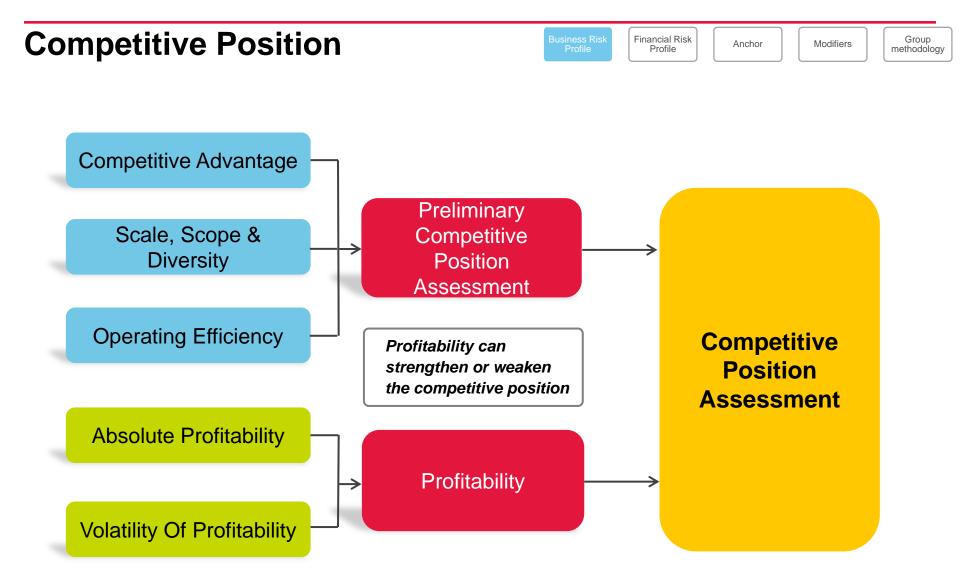
## **Corporate Industry And Country Risk Assessment (CICRA)**

"The combined assessment for country risk and industry risk"

**Determining The CICRA** 

-- Country risk assessment--Industry risk assessment (Very low (Intermediat (Moderately (Very high (Low risk) (High risk) risk) e risk) high risk) risk) 1 (Very low risk) 2 (Low risk) 3 (Intermediate risk) 4 (Moderately high risk) 5 (High risk) 6 (Very high risk) 







Determining The Business Risk Prof

Group methodology

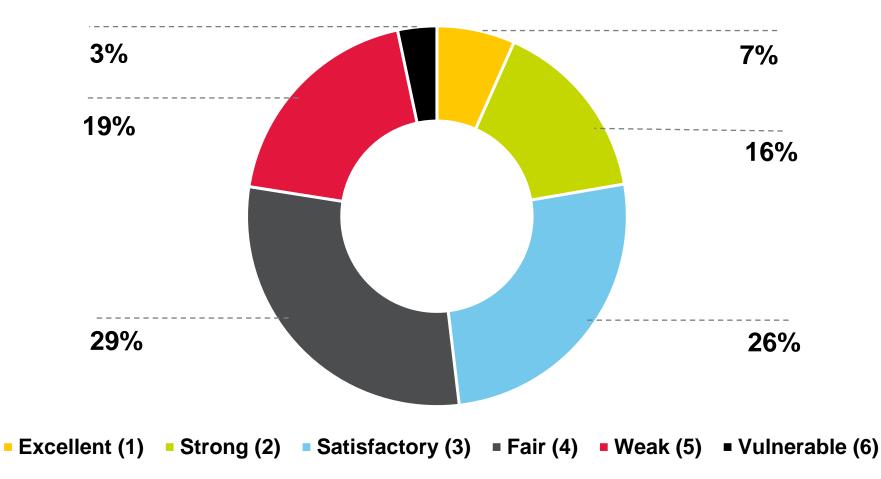
#### **Determining The Business Risk Profile Assessment**

	CICRA						
Competitive position assessment	1	2	3	4	5	6	
1	1	1	1	2	3	5	
2	1	2	2	3	4	5	
3	2	3	3	3	4	6	
4	3	4	4	4	5	6	
5	4	5	5	5	5	6	
6	5	6	6	6	6	6	

\*A small number of companies with a CICRA of '5' may be assigned a business risk profile of '2' if certain conditions are met



#### **Distribution Of Business Risk Profiles In EMEA\***

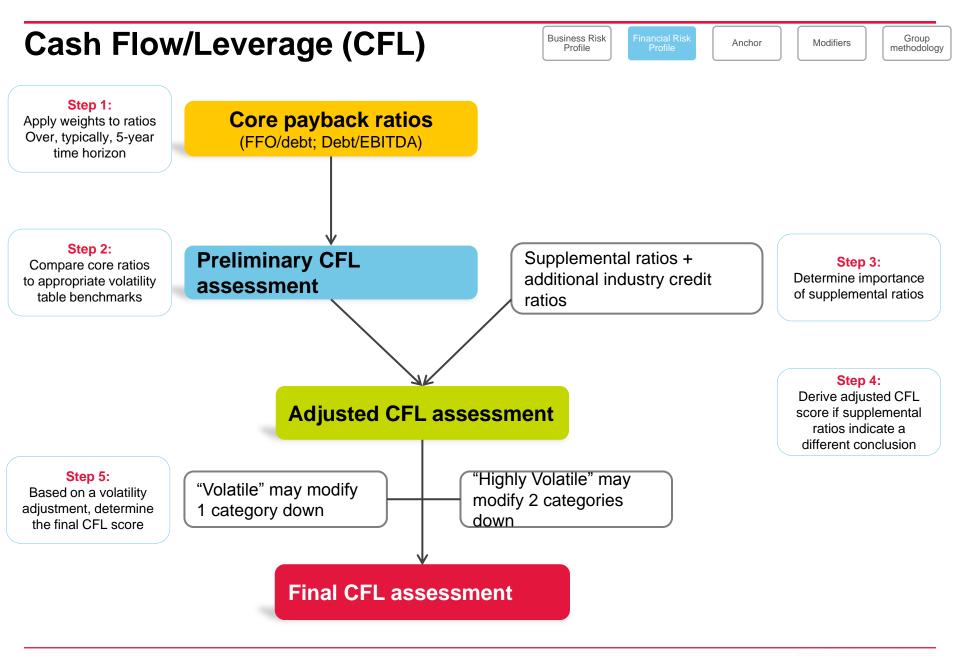


Source: "European Corporate Rating Scores By Industry Sector As Of Jan. 22, 2014", published on RatingsDirect on Jan. 22, 2014

\*As of January 22, 2014



A A B C A B A C B A C A B A B C всвасвввааавасва CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A AABCABACCABACAAB **Financial Risk Profile** BACACAA Assessment **BCBABABCBCBABAC A B A C B B A C A B A C B B A A** BCCCBACCBCCCBACC CABCABACCABCABAB <u>C C C B A C A B C C C B A C C</u>





#### **Benchmark Ratio Tables**

Business Risk Profile	Financial Risk Profile	Anchor	Modifiers

Group

methodology

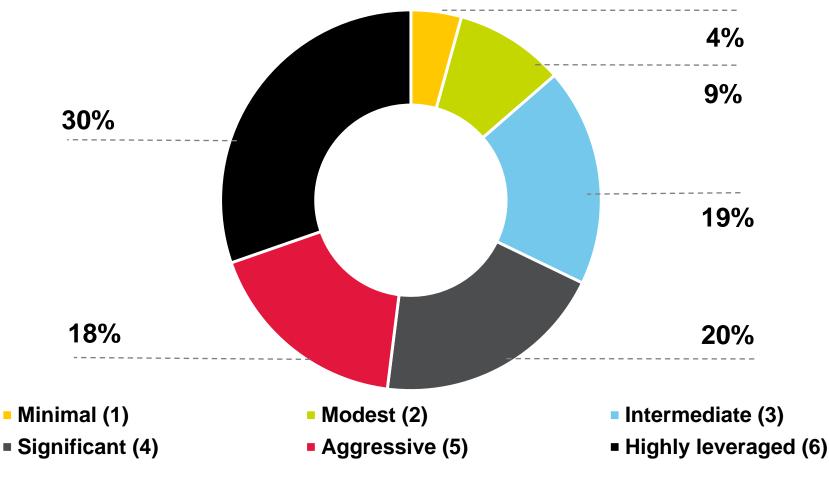
#### Three benchmark tables provide ranges for various cash flow/leverage assessments

#### CICRA assessment and KCFs determine which table to apply

- Low volatility; generally applied to entities with a CICRA of '1' (except those with competitive position of '5' or '6')
- Medial volatility; used under certain circumstances for entities with a CICRA of '1' or '2'
- Standard volatility; CICRA '2' or worse

Cash Flow Leverage Analysis Ratios Standard Volatility									
	Core	e ratios	Supplement	tary coverage ratios	Supplementary payback ratios				
	FFO / debt (%)	Debt / EBITDA (x)	FFO / cash interest (x)	EBITDA / interest (x)	CFO / debt (%)	FOCF / debt (%)	DCF / debt (%)		
Minimal	60+	Less than 1.5	More than 13	More than 15	More than 50	40+	25+		
Modest	45 – 60	1.5 – 2	9 – 13	10 – 15	35 – 50	25 – 40	15 – 25		
Intermediate	30 – 45	2-3	6 – 9	6 – 10	25 – 35	15 – 25	10 – 15		
Significant	20 – 30	3 – 4	4 – 6	3 – 6	15 – 25	10 – 15	5 – 10		
Aggressive	12 – 20	4 – 5	2 – 4	2 – 3	10 – 15	5 – 10	2 – 5		
Highly <sup>14</sup> Leveraged	Less than 12	5+	Less than 2	Less than 2	Less than 10		NDARSS&IRAD2('S NGS SERVICES		

#### **Distribution Of Financial Risk Profiles In EMEA\***



Source: "European Corporate Rating Scores By Industry Sector As Of Jan. 22, 2014", published on RatingsDirect on Jan. 22, 2014

\*As of January 22, 2014



A A B C A B A C B A C A B A B C B C B A C B B B A A A B A C B A CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A A A B C A B A C C A B A C A A B **C**Anchor **BACACAA** C B C B A B A B C B C B A B A C A B A C B B A C A B A C B B A A B C C C B A C C B C C C B A C C CABCABACCABCABAB BCCCBACABCCCBACC

Anchor	Business Risk Profile	Financial Risk Profile	Anchor		Modifiers		n
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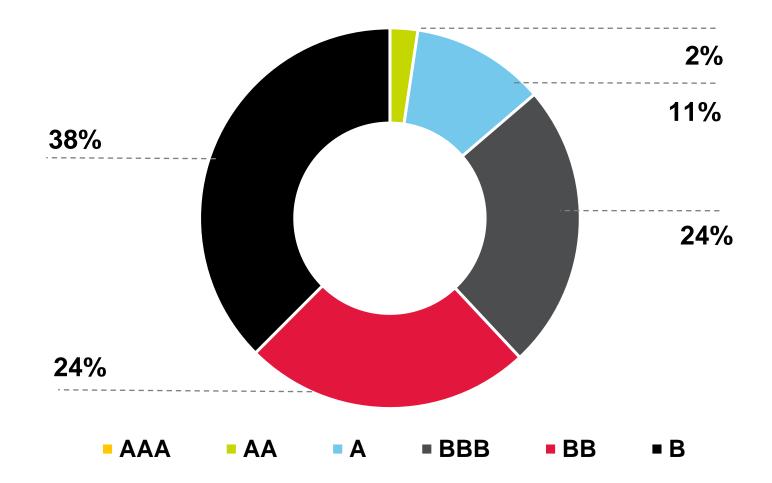
Combining The Business An	d Financial Risk	<pre>&lt; Profiles To De</pre>	termine The And	chor					
	Financial risk profile								
Business risk profile	1 (minimal)	2 (modest)	3 (intermediat e)	4 (significant)	5 (aggressive)	6 (highly leveraged)			
1 (excellent)	aaa/aa+	aa	a+/a	a-	bbb	bbb-/bb+			
2 (strong)	aa/aa-	a+/a	a-/bbb+	bbb	bb+	bb			
3 (satisfactory)	a/a-	bbb+	bbb/bbb-	bbb-/bb+	bb	b+			
4 (fair)	bbb/bbb-	bbb-	bb+	bb	bb-	b			
5 (weak)	bb+	bb+	bb	bb-	b+	b/b-			
6 (vulnerable)	bb-	bb-	bb-/b+	b+	b	b-			

When two anchor outcomes are listed for a given combination of business risk profile assessment and financial risk profile assessment, the anchor will be based on the:

- Comparative strength of its business risk profile if the financial risk profile is '4' or stronger (i.e. 1-4)
- Comparative strength of its financial risk profile if its financial risk profile is '5-6'

Group methodology

#### **Distribution Of Anchor Outcomes In EMEA\***

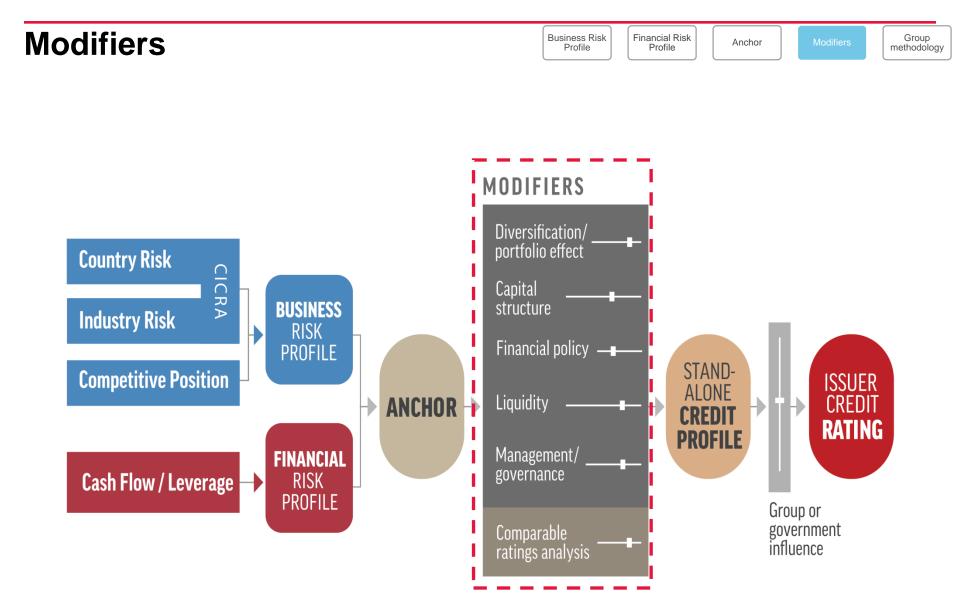


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\*As of January 22, 2014



A A B C A B A C B A C A B A B C B C B A C B B B A A A B A C B A CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A A A B C A B A C C A B A C A A B **Modifiers** C B C B A B A B C B C B A B A C A B A C B B A C A B A C B B A A B C C C B A C C B C C C B A C C CABCABACCABCABAB 





**Modifiers – Liquidity And M&G** 

Anchor

Group methodology

#### Liquidity

- Minor revisions and clarifications
- Analysis continues to focus on:
  - Monetary flows--the *sources and uses* of cash--that are the key indicators of a company's liquidity cushion;
  - The potential for a company to breach covenant tests related to declines in EBITDA; and
  - The company's ability to:
    - Absorb high-impact, low-probability events;
    - $\circ$  The nature of the company's bank relationships;
    - Its standing in credit markets; and
    - How prudent (or not) we believe its financial risk management to be

#### Management and governance

 Measures an enterprise's ability to manage important strategic and operating risks



Anchor

	Anchor range							
Factor/ranking	'a-' and higher	'bbb+' to 'bbb-'	'bb+' to 'bb-'	'b+' and lower				
Liquidity								
1. Exceptional	0 notches	0 notches	0 notches	+1 notch if FP is positive, neutral, FS-4 or FS-5 <sup>1</sup>				
2. Strong	0 notches	0 notches	0 notches	+1 notch if FP is positive, neutral, FS-4 or FS-5 <sup>1</sup>				
3. Adequate	0 notches	0 notches	0 notches	0 notches				
4. Less than adequate <sup>2</sup>	N/A	N/A	- 1 notch <sup>3</sup>	0 notches				
5. Weak	N/A	N/A	N/A	'b-' cap on SACP				
Management and Governance								
1. Strong	0 notches	0 notches	0, +1 notches <sup>4</sup>	0, +1 notches <sup>4</sup>				
2. Satisfactory	0 notches	0 notches	0 notches	0 notches				
3. Fair	- 1 notches	0 notches	0 notches	0 notches				
4. Weak	- 2 or more notches <sup>5</sup>	- 2 or more notches <sup>5</sup>	- 1 or more notches <sup>5</sup>	- 1 or more notches <sup>5</sup>				

<sup>1</sup>Additional notch applies only if we expect liquidity to remain exceptional or strong. <sup>2</sup>SACP is capped at 'bb+.'

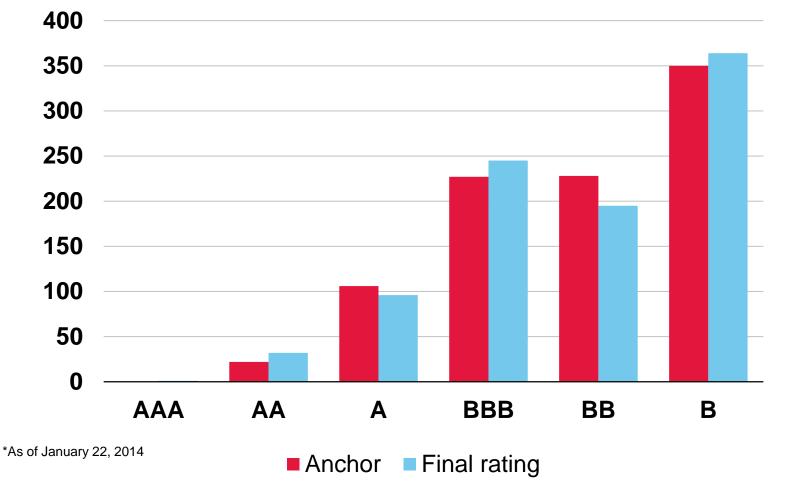
 $^{3}\mbox{If}$  issuer SACP is 'bb+' due to cap, there is no further notching.

<sup>4</sup>This adjustment is one notch if we have not already captured benefits of strong management and governance in the analysis of the issuer's competitive position.

<sup>5</sup>Number of notches depends upon the degree of negative effect to the enterprise's risk profile.



## **Application Of Modifiers In EMEA\***



Source: "European Corporate Rating Scores By Industry Sector As Of Jan. 22, 2014", published on RatingsDirect on Jan. 22, 2014



AABCABACBACABABC B C B A C B B B A A A B A C B A CACBBACABBBCCCCAB A B A C C C C B A C A C B C B A Jurisdictional Considerations Overview A B A B C B C B A B A C <u>A B A C B B A C A B A C B B A A</u> BCCCBACCBCCCBACC CABCABACCABCABAB <u>C C C B A C A B C C C B A C C</u>

## Ranking a Jurisdiction





## **Insolvency Overview – S&P's Jurisdictional Framework**

#### S&P's framework for assessing "creditor friendliness"

- Security
  - Proven effective in protecting creditor rights?

#### Creditor participation/influence

- Can creditors influence the process in a manner commensurate with their relative position in the capital structure and their reasonable prospects for recovery?
- Distribution of value/certainty of priorities
  - Are distributions to creditors done in a fair and equitable manner?

#### Time to resolution

- Expected time between insolvency and ultimate resolution (may include prospects for monetizing noncash distributions)
- General expectations should be 2 years or less

#### See: Criteria|Corporates|Recovery: Update: Jurisdiction-Specific Adjustments To Recovery And Issue Ratings, published June 20, 2008



#### **Publicly Ranked Jurisdictions**

Countries are classified into three categories, placing the most creditor-friendly insolvency regimes in Group A and the least creditor-friendly environments in Group C.

#### **Creditor friendly**

#### **Creditor Unfriendly**

A1	A2	В	С
Netherlands	South Africa	Spain	Russia
Ireland	Germany	Turkey	Kazakhstan
Finland	Belgium	Mexico	Ukraine
Denmark	Luxembourg	Chile	
Singapore	Switzerland	France	
Hong Kong	Japan	Italy	
Australia	Portugal	Brazil	
U.K.	Canada		
Norway	U.S.		
Sweden			



# Jurisdiction-Specific Adjustments to Recovery And Issue Ratings

Jurisdiction-Specific Adjustments To Recovery And Issue Ratings							
Jurisdictions by group	Recovery range (%)*	Recovery rating cap¶	Issue rating notches§				
A	100	1+	+3				
В	100	2	+1				
с	100	2	+1				
A	90-100	1	+2				
В	90-100	2	+1				
с	90-100	3	0				
A	70-90	2	+1				
В	70-90	3	0				
с	70-90	3	0				

\*Denotes the recovery range that would be expected, prior to factoring the impact of the jurisdiction on ultimate recovery prospects. ¶Denotes the highest possible recovery rating that could be assigned to an issue, based primarily on the group in which the jurisdiction is classified and the expected recovery range. §Indicates issue-level rating "notches" relative to Standard & Poor's corporate credit rating on the issuer.

- Multi-jurisdictional issues lead us to factor in increased insolvency costs and delays
  - Geographic spread of a company's assets, debt, and revenues



## **European Recoveries by Seniority**

	no. of instruments	Amount debt (bil. \$)	Mean (%)	Median (%)	Standard deviation (%)
First lien	598	90.5	75.5	90.0	28.8
Second lien*	72	17.9	35.7	10.0	41.6
Mezzanine*	123	17.2	35.9	1.5	45.0
Senior unsecured	46	18.9	46.7	38.0	34.8
Subordinated	16	2.8	29.0	1.8	40.9

\* Mean and median results are less indicative of actual recoveries, given that results are binary in the majority of these cases

- First Lien Debt recoveries remain strong at 76%
- Second Lien Debt recoveries remain very similar to Mezzanine recoveries
- 71% of Second Lien and 87% of Mezzanine facilities with binary recoveries (either 100% or 0%)
- Interim Recoveries remain a major risk factor given that they make up the majority of our data set



## **Secured Bond Recoveries – First Indications**

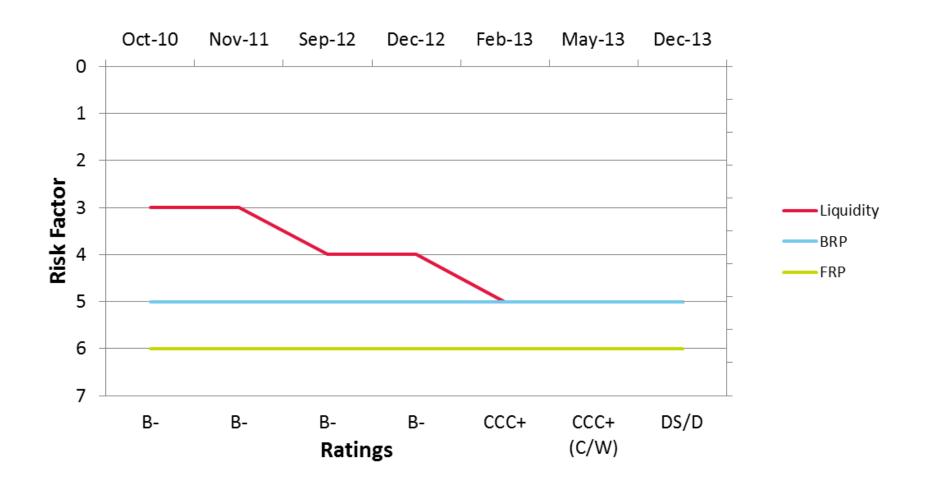
First-lien debt instrument	Companies	Instruments	Mean (%)	Median (%)
All senior secured bank debt	155	548	77.3	94.2
Senior secured bonds ranked pari passu with bank debt	6	25	67.3	66.4
Super senior RCF* and senior secured bonds	2	7	39.2	37.2
All senior secured bonds and no super senior RCF*	8	18	43.8	40.1
*RCF stands for revolving credit factility				

- First Lien Bank Debt recoveries outperform Secured Bond recoveries
- Impact of covenant-lite transactions on credit quality remains unknown at this early stage in Europe
- Lower recoveries for secured bondholders when there is a super senior RCF in the capital structure



A B C A B A C B A C A B A B C всвасвввааавасва **BBACABBBCCCA** A B A C C C C B A C A C B C B A Case Analysis: A.T.U. Auto-Teile Unger Handels Gmbh ВАСАВАСВВАА <u>C C C B A C C B C C C B A C C</u> BCA CABACCA

### **ATU Rating Development**







## **Thank You**

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## Key Attributes Of Standard & Poor's Credit Ratings

"S&P credit ratings are designed primarily to provide relative rankings among issuers and obligations; the ratings are not measures of absolute default probability"

#### Rank ordering of creditworthiness among issuers and obligations

- Forward opinions about the creditworthiness of issuers and obligations
- Relative ranking; higher ratings are judged by us to be more creditworthy and should:
  - Default less frequently
  - Withstand successively more stressful economic environments that we view as less likely to occur
- Absolute stress levels is part of how we try to achieve comparability of ratings
  - Used to calibrate criteria across sectors and over time

#### Ratings are <u>not</u> measures of absolute default probability

- We recognize that observed default rates for all rating categories rise and fall as the economic environment changes
- Each economic cycle is unique and produces different default rates across sectors and regions
- We do observe long-term default frequencies to inform future changes to criteria and analytics



## **S&P Default Events**

## **Bankruptcy filings**

## Failure to pay

Principal or interest

#### **Distressed exchange offers**

- No legal default
- Exchange offers and buybacks
- Two conditions need to be met:
  - 1. The offer implies the investor will receive less value than the promise of the original securities
  - 2. The offer is distressed rather than purely opportunistic
    - Investors accept less than the original promise because of the risk that the issuer will not fulfill its original obligations
    - If rating is 'B-' or lower, then the exchange is ordinarily viewed as distressed
    - Can include secondary market repurchases below par, if the company is advertising itself as the buyer

## Debt standstill agreements and writedowns also default



## **Defaults Are Cyclical, Beware Of Long-Term Averages**

Descriptive Statistics On One-Year Global Defa	ult Rate	es					
(%)	AAA	AA	Α	BBB	BB	в	CCC/C
Minimum	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Maximum	0.00	0.38	0.38	1.02	4.22	13.84	48.94
Weighted long-term average	0.00	0.02	0.07	0.22	0.86	4.28	26.85
Median	0.00	0.00	0.00	0.18	0.72	3.55	22.80
Standard deviation	0.00	0.07	0.11	0.26	1.04	3.32	12.48
2008 default rates	0.00	0.38	0.38	0.48	0.79	4.01	26.47
Latest four quarters (Q1 2012 - Q4 2012)	0.00	0.00	0.00	0.00	0.29	1.50	26.62
Difference between last four quarters and average	0.00	(0.02)	(0.07)	(0.22)	(0.58)	(2.78)	(0.23)
Number of standard deviations	0.00	(0.31)	(0.64)	(0.85)	(0.55)	(0.84)	(0.02)



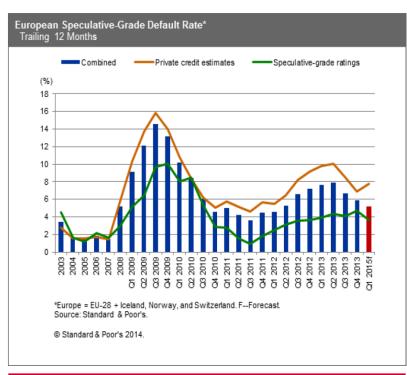
## **Ratings Transition Continues to Exhibit Consistency**

Averag	Average Global Corporate One-Year Corporate Transition Rates, 1981-2012 (%)									
Global	Corporate			I	Rating at	the end o	f the yea	r		
Ciobai	corporate	AAA	AA	Α	BBB	BB	В	CCC/CC	D	NR
) year	AAA	87.2	8.7	0.5	0.1	0.1	0.0	0.1	0.0	3.4
ie e ye	AA	0.5	86.3	8.4	0.6	0.1	0.1	0.0	0.0	4.1
it the ſ the	Α	0.0	1.9	87.3	5.5	0.4	0.2	0.0	0.1	4.7
ום מו g of	BBB	0.0	0.1	3.5	85.1	3.9	0.6	0.1	0.2	6.4
Rating at the nning of the	BB	0.0	0.0	0.2	5.2	76.1	7.2	0.7	0.9	9.7
Ratin beginning	В	0.0	0.0	0.1	0.2	5.4	73.8	4.4	4.3	11.7
be	CCC/CC	0.0	0.0	0.2	0.2	0.7	13.7	43.9	26.9	14.4

 Investment-grade-rated issuers tend to exhibit greater credit stability as measured by the frequency of rating transition



#### European Default Rates – Expected At 5.2% By March 2015



#### European Speculative-Grade Default Projections To March 2015

One-Year Default Assumptions For Ratings/Credit Estimates

<b>Ratings/Credit Estimates</b>	Default Assumptions							
		Base case		Downside				
(% per year)	Public ratings	Credit estimates	Combined	Public ratings	Credit estimates	Combined		
>B+	0.6	0.6		0.8	0.9			
B+	1.9	2.1		2.4	2.6			
В	3.8	4.3		5.1	5.5			
В-	6.0	6.7		8.2	8.9			
CCC/CC	21.7	23.4		26.9	28.6			
Default rates								
Percentage	3.6	7.9	5.2	4.7	10.0	6.7		
No. of defaults	15	20	35	20	26	46		

- Trailing 12-month speculative-grade default rate was 5.9% to Dec. 31, 2013 (6.7% in Q3-2013)
  - 42 EU-31 entities defaulted on €24.3 billion of debt
  - 11 entities defaulted in Q4-2013 on €4.9 billion of debt
- Basecase default forecast 5.2% to March 2015 (versus five-year average of 7.4%)
  - Downside forecast 6.7%
  - Largely driven by a rise in our private credit estimates portfolio and serial defaulters

## • Favorable debt and interest rate environment

- Helped rated companies to bolster their liquidity positions by terming out debt maturities and refinancing bank debt



Financial Risk Profile

Anchor

Modifiers

Group methodology

*"…we determine a company's preliminary competitive position assessment by ascribing a specific weight to each component"* 

#### Competitive Position Group Profiles (CPGPs) And Category Weightings

-- %--

Component	Service and product focus	Product focus/ scale driven	Capital or asset focus	Commodit y focus/ cost driven	Commodit y focus/ scale driven	National industries and utilities
1. Competitive advantage	45	35	30	15	10	60
2. Scale, scope, and diversity	30	50	30	35	55	20
3. Operating efficiency	25	15	40	50	35	20
Total	100	100	100	100	100	100
Weighted-average assessment	1.0-5.0	1.0-5.0	1.0-5.0	1.0-5.0	1.0-5.0	1.0-5.0



## **Modifiers – Diversification**

Business Risk Profile	Fir

Anchor

Group methodology

#### **Diversification/portfolio effect**

- Identifies the benefits of diversification across business lines (conglomerates)
- Minimum (usually) of three business lines, smallest >10% of EBITDA (or FOCF) and largest <50%
- Assessment impacted by our view of correlation between segments

Assessing Diversification/ Portfolio Effect					
		Number of business lines	s		
Degree of correlation of business lines	3	4	5 or more		
High	Neutral	Neutral	Neutral		
Medium	Neutral	Moderately diversified	Moderately diversified		
Low	Moderately diversified	Significantly diversified	Significantly diversified		

#### **Assessing Diversification/ Portfolio Effect**

			Business r	isk profile		
Diversification/ portfolio effect	1 (excellent)	2 (strong)	3 (satisfactory)	4 (fair)	5 (weak)	6 (vulnerable)
1 (significant diversification)	+2 notches	+2 notches	+2 notches	+1 notch	+1 notch	0 notches
2 (moderate diversification)	+1 notch	+1 notch	+1 notch	+1 notch	0 notches	0 notches
3 (neutral)	0 notches	0 notches	0 notches	0 notches	0 notches	0 notches



#### **Modifiers – Capital Structure**

Business Risk Profile	

#### **Capital structure**

- Assesses risks in a company's capital structure that may not show up in our standard ratio analysis
- An analysis of four subfactors
  - Currency risk associated with debt (tier 1)
  - Debt maturity profile (tier 1)
  - Interest rate risk associated with debt (tier 2)
  - Investments (can modify preliminary capital structure assessment)

#### Final Capital Structure Assessment

#### -- Investment subfactor assessment --

Preliminary capital structure assessment	Neutral	Positive	Very positive
Neutral	Neutral	Positive	Very positive
Negative	Negative	Neutral	Positive
Very negative	Very negative	Negative	Negative



Refines the view of a company's risks beyond the conclusions arising from the standard assumptions in the cash flow/leverage assessment

 Assumptions do not always reflect or entirely capture the short-to-medium term event risks or longer-term risks stemming from a company's financial policy

#### Analysis depends on the nature of the company's controlling shareholder(s)

- For companies not owned by financial sponsors, we assess:
  - 1. Management's financial discipline
    - Determines whether unforeseen actions by management to increase, maintain, or reduce financial risk are likely to occur during the next two to three years
  - 2. The company's financial policy framework
    - Assess the comprehensiveness, transparency, and sustainability of the entity's financial policies
    - Assessed as supportive or non-supportive

"The influence management is likely to exert on an entity's financial risk profile beyond what is implied by recent credit ratios and cash flow and leverage forecasts"



Business Risk Profile	Financial Risk Profile
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# For companies that are owned =>40% by a financial sponsor (or a group of three or less), we assess the influence of financial sponsor ownership

- Range from "FS4" to "FS6 (minus)"
  - Depending on how aggressive we assume the sponsor will be
  - FS5 and FS4 are expected to be used only in rare instances
- Generally financial sponsor-owned issuers will receive an assessment of "FS6" or "FS6 (minus)"
  - Leads to a financial risk profile of '6/Highly Leveraged' under the criteria



Modifier Step 2: Impact Of Remaining Modifiers On The Anchor					
		Ancho	r range		
Factor/ranking	'a-' and higher	'bbb+' to 'bbb-'	'bb+' to 'bb-'	'b+' and lower	
Capital structure					
1. Very positive	+2 notches	+2 notches	+2 notches	+2 notches	
2. Positive	+1 notch	+1 notch	+1 notch	+1 notch	
3. Neutral	0 notches	0 notches	0 notches	0 notches	
4. Negative	- 1 notch	- 1 notch	- 1 notch	- 1 notch	
5. Very negative	- 2 or more notches	- 2 or more notches	- 2 or more notches	- 2 or more notches	
Financial policy (FP)					
1. Positive	+1 notch if M&G is at least satisfactory	+1 notch if M&G is at least satisfactory	+1 notch if liquidity is at least adequate and M&G is at least satisfactory	+1 notch if liquidity is at least adequate and M&G is at least satisfactory	
2. Neutral	0 notches	0 notches	0 notches	0 notches	
3. Negative	- 1 to - 3 notches <sup>1</sup>	- 1 to - 3 notches <sup>1</sup>	- 1 to - 2 notches <sup>1</sup>	- 1 notch	
4. FS-4, FS-5, FS-6, FS-6 (minus)	N/A	N/A	N/A	N/A	

<sup>1</sup>Number of notches depends on potential incremental leverage.



## **Comparable Ratings Analysis**

Business Risk Profile		Financial Ri Profile
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- Last step in determining a stand-alone credit profile on a company
- An holistic review of a company's stand-alone credit risk profile
  - Evaluates an issuer's credit characteristics in aggregate
  - Based on positive and negative nuances and reflects the need to 'fine-tune' ratings outcomes
  - A positive or negative assessment is therefore likely to be common rather than exceptional
- A company's rating may be changed by one notch in either direction in this comparable ratings analysis
  - Assessed as neutral, positive, or negative
- Examples that can lead to an adjustment (up or down) include:
  - A company being strong/weak within its business risk and/or financial risk profile (or metrics)
  - Contingent risk exposures
  - Short operating track record
  - Unusual funding structures
  - Entities in transition
  - Industry or macroeconomic trends





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